

Fishery Management Report No. 06-76

**The Southeastern District Mainland Salmon Fishery
of Area M, Report to the Alaska Board of Fisheries,
2007**

by

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and

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December 2006

Alaska Department of Fish and Game

Divisions of Sport Fish and Commercial Fisheries



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Weights and measures (metric)		General		Measures (fisheries)	
centimeter	cm	Alaska Administrative		fork length	FL
deciliter	dL	Code	AAC	mid-eye-to-fork	MEF
gram	g	all commonly accepted		mid-eye-to-tail-fork	METF
hectare	ha	abbreviations	e.g., Mr., Mrs., AM, PM, etc.	standard length	SL
kilogram	kg			total length	TL
kilometer	km	all commonly accepted			
liter	L	professional titles	e.g., Dr., Ph.D., R.N., etc.		
meter	m	at	@	Mathematics, statistics	
milliliter	mL	compass directions:		<i>all standard mathematical</i>	
millimeter	mm	east	E	<i>signs, symbols and</i>	
		north	N	<i>abbreviations</i>	
		south	S	alternate hypothesis	H _A
		west	W	base of natural logarithm	<i>e</i>
		copyright	©	catch per unit effort	CPUE
		corporate suffixes:		coefficient of variation	CV
		Company	Co.	common test statistics	(F, t, χ^2 , etc.)
		Corporation	Corp.	confidence interval	CI
		Incorporated	Inc.	correlation coefficient	
		Limited	Ltd.	(multiple)	R
		District of Columbia	D.C.	correlation coefficient	
		et alii (and others)	et al.	(simple)	r
		et cetera (and so forth)	etc.	covariance	cov
		exempli gratia		degree (angular)	°
		(for example)	e.g.	degrees of freedom	df
		Federal Information		expected value	<i>E</i>
		Code	FIC	greater than	>
		id est (that is)	i.e.	greater than or equal to	≥
		latitude or longitude	lat. or long.	harvest per unit effort	HPUE
		monetary symbols		less than	<
		(U.S.)	\$, ¢	less than or equal to	≤
		months (tables and		logarithm (natural)	ln
		figures): first three		logarithm (base 10)	log
		letters	Jan, ..., Dec	logarithm (specify base)	log ₂ , etc.
		registered trademark	®	minute (angular)	'
		trademark	™	not significant	NS
		United States		null hypothesis	H ₀
		(adjective)	U.S.	percent	%
		United States of		probability	P
		America (noun)	USA	probability of a type I error	
		U.S.C.	United States	(rejection of the null	
			Code	hypothesis when true)	α
		U.S. state	use two-letter	probability of a type II error	
			abbreviations	(acceptance of the null	
			(e.g., AK, WA)	hypothesis when false)	β
				second (angular)	"
				standard deviation	SD
				standard error	SE
				variance	
				population	Var
				sample	var

Weights and measures (English)

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

Time and temperature

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

Physics and chemistry

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

FISHERY MANAGEMENT REPORT NO. 06-76

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by

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ABSTRACT

The Southeastern District Mainland (SEDM) fishery of Area M is located on the south side of the Alaska Peninsula and occurs in Stepovak, Beaver, and Balboa bays. Under the SEDM management plan (5 AAC 09.360), originally established by the Alaska Board of Fisheries in 1985, the commercial fishery is currently allocated 6.0% of the total Chignik Management Area bound sockeye salmon *Oncorhynchus nerka* commercial harvest from June 1 through July 25. After July 25, the SEDM area is managed based on the strength of local salmon stocks and managed under the Post-June Management Plan (5 AAC 09.366). Over the past 20 years, 86% of the sockeye salmon harvest in this fishery has been by set gillnet fishermen and the remaining 14% by purse seine fishermen. The 1996-2006 average harvest (June 1 – July 25) in the SEDM was 194,679 sockeye salmon of which an average of 86,420 sockeye salmon were considered Chignik-bound by regulation. From 1997-2006, the SEDM fishery harvested an average of 6.2% of the total Chignik-bound sockeye salmon harvest.

The SEDM annual sockeye salmon harvests in 2004, 2005, and 2006 were 210,545, 245,153, and 77,513 fish, respectively. The sockeye salmon considered to be Chignik-bound by regulation that were harvested in the SEDM during 2004 (55,355 fish), 2005 (177,906 fish), and 2006 (62,010 fish), accounted for 6.2%, 11.5%, and 7.3% of the total Chignik-bound harvest. In 2006, 24 set gillnet and 13 purse seine permit holders participated in the SEDM fishery.

In 2004, 2005, and 2006, the respective Orzinski Lake annual sockeye salmon escapements were 75,450, 44,797, and 18,000 fish. The 1990-2006 average sockeye salmon escapement into Orzinski Lake was 34,247 fish.

Key words: South Alaska Peninsula, Southeastern District Mainland, commercial salmon fishery, sockeye salmon, *Oncorhynchus nerka*, purse seine, set gillnet, Orzinski Bay, salmon escapement

INTRODUCTION

This report describes the Southeastern District Mainland (SEDM) salmon fishery from June 1 through July 25. The post July 25 fisheries in this area are described in the South Alaska Peninsula Post-June Fishery Alaska Board of Fisheries (BOF) report (Doolittle *In prep*).

The SEDM fishery of Area M occurs on the south side of the Alaska Peninsula (Figure 1). Included in this fishery are Beaver Bay, Balboa Bay, Southwest Stepovak, Northwest Stepovak, East Stepovak, and Stepovak Flats sections (Figure 2). Fishing effort in the SEDM, June 1 through July 25, primarily targets sockeye salmon *Oncorhynchus nerka* considered to be bound for the Chignik Management Area (CMA; ADF&G 2004). The SEDM is managed from June 1 through July 25 on a 6% allocation of the total Chignik-bound sockeye salmon harvest, with fishing periods based on the strength of the Chignik watershed sockeye salmon escapement and harvest in the CMA and the sockeye salmon harvest in the Cape Igvak Section of the Kodiak Management Area (KMA; Appendix A1; Eggers 2006). Before July 1, 80% of sockeye salmon, harvested in the SEDM are considered Chignik-bound (this 80% is attributed to the Chignik Area sockeye salmon allocation 5 AAC 09.360). Beginning July 1, sockeye salmon harvested in the Northwest Stepovak Section (NWSS) of the SEDM are considered 100% local fish (ADF&G 2004). Only Orzinski Bay is managed entirely on local stocks the entire season (Figure 2). After July 25, the entire SEDM area is managed on the strength of local stocks under the South Alaska Peninsula Post-June Salmon Management Plan (5 AAC 09.366).

Additional tables, located in Appendices B and C of this report, provide historical effort, harvests, and regulations for the SEDM fishery.

RECENT HISTORY

To illustrate the changes in the SEDM management plan, harvest numbers in this report will be averaged for the years that reflect time periods under specific regulations. The average from 1985-1991 is intended to represent the time period when Northwest Stepovak Section sockeye salmon harvests for the entire season were considered local stocks. The 1992 to 1995 average represents the years when Orzinski Bay harvests were considered local stocks. The 1996 to 2006 average represents the years under the current management plan. Tables depicting factors unaffected by the BOF management plan changes (e.g. harvests and effort by gear type) summarize the data with 10- and 20-year averages. All harvest information in this report was calculated from Alaska Department of Fish and Game (ADF&G) fish ticket database on December 18, 2006 and supersedes any previously published data.

PRE 1974-1978

Prior to 1974, the SEDM fishery was regulated by set weekly fishing periods, which were generally five days per week (Appendix C1). From 1974 through 1977, the fishery was open on a day per day basis with Chignik Lagoon. In 1978, the BOF restricted fishing time to three days per week for set gillnet gear only through July 10. Since 1978, set gillnets have been the only legal gear through July 10 in the SEDM (Table 1; Figure 3). During 1978, harvest rates were low despite strong Chignik runs, resulting in a SEDM catch of only 31,197 sockeye salmon, of which 22,064 sockeye were considered Chignik-bound, 1.3% of the total Chignik harvest (Tables 2 and 3; Appendix B4). From 1973 to 1978, an average of 20 set gillnet and 17 purse seine fishermen participated in this fishery (Figures 4 and 5).

1979-1984

Beginning with the 1979 season, the BOF increased fishing time from three days to five days per week but specified that not more than 60,000 Chignik-bound sockeye salmon could be harvested through July 10 in the SEDM (Appendix C1). The BOF stipulated that the SEDM fishery would be closed if it became apparent that the Chignik escapement requirements were not ensured. The BOF also stated that if the CMA catch exceeded 1,000,000 sockeye salmon before July 10, the SEDM fishery could continue beyond the 60,000 sockeye salmon ceiling. This management plan remained in effect until 1985.

From 1979 to 1982, the annual SEDM harvest averaged 118,429 sockeye salmon; 76,476 sockeye salmon were considered to be Chignik-bound (6.4% of the total Chignik-bound sockeye harvest; Table 3; Figure 6). These harvests were achieved in spite of numerous fishery closures imposed by ADF&G because of poor Chignik sockeye salmon escapements. Set gillnet fishing activity increased from 23 permits in 1978 to 37 permits in 1982 (Figure 4; Appendix B6 and B9).

In 1983, an estimated 227,392 Chignik-bound sockeye salmon were harvested in the SEDM fishery (Table 3). Most of the sockeye salmon (76%) were harvested after July 10 (Shaul et al. 1983).

In 1984, set gillnet effort increased to 54 permits, of which five were operated by fishermen who were also purse seine permit holders (Figure 4; Appendix B6 and B9). Because of an exceptionally strong early Chignik run, and the large number of fish available in the SEDM, only six fishing days were required to harvest an estimated 60,000 Chignik-bound sockeye salmon.

The SEDM fishery was closed for only three days and was reopened on June 14 when the Chignik sockeye salmon harvest reached 1,000,000 fish. In 1984, the late Chignik sockeye salmon run was weaker than predicted, and the second run escapement goal was reached only after considerable curtailment of the SEDM, Chignik, and Cape Igvak (Kodiak Management Area) fisheries during mid-July. The total 1984 SEDM harvest of Chignik-bound sockeye salmon was 423,068 sockeye, or 12.6% of the total Chignik-bound sockeye salmon harvest (Tables 3 through 5).

1985-1991

For the 1985 season, the BOF modified the SEDM management plan based on the Cape Igvak Salmon Management Plan, Kodiak Management Area, instead of using a set fishing schedule. The BOF plan directed ADF&G to manage the fishery so that the number of sockeye salmon taken in the SEDM fishery (exclusive of the Northwest Stepovak Section) approached as near as possible to 6.2% of the total Chignik-bound sockeye salmon harvest, June 1 through July 25. In the fall of 1987, ADF&G re-evaluated the data used to calculate the allocation and determined that 6.0% was appropriate. The BOF changed the allocation, based on the re-evaluated data, beginning with the 1988 season. However, before the SEDM fishery could open certain criteria had to be met. In years when a harvestable surplus for the early and late runs of Chignik River system sockeye salmon was expected to be less than 600,000 fish, no commercial salmon fishery targeting Chignik-bound sockeye salmon would be allowed in the SEDM fishery until a harvest of 300,000 sockeye salmon was achieved in the Chignik Area. After July 8, fishing in the SEDM might occur provided at least 300,000 sockeye salmon had been harvested in the Chignik Area, escapement objectives were being met, and the Chignik Area harvest was anticipated to total at least 600,000 sockeye salmon. In addition, the number of sockeye salmon taken in the SEDM fishery needed to be as near as possible to 6.0% of the total Chignik-bound sockeye salmon harvest from June 1 through July 25.

From 1985 through 1991, the harvest of Chignik-bound sockeye salmon in the SEDM, averaged 88,776 salmon, 5.5% of the total Chignik-bound sockeye salmon harvest, and ranged from 4,485 fish in 1989 to 152,714 fish in 1991 (Table 3; Figure 6).

1992-1995

The BOF revised the SEDM management plan prior to the 1992 season (Appendix C1). The revised plan was in effect from 1992 through 1995, and included two significant changes:

- 1) The area in the Northwest Stepovak Section to be managed on a local stock basis was reduced to include only the waters of Orzinski Bay; the Stepovak Flats Section would continue to be managed on the basis of the Stepovak River chum salmon stock (Figure 2).
- 2) The allowable harvest of Chignik-bound sockeye salmon in the SEDM fishery (exclusive of Orzinski Bay) was increased from 6.0% to 7.0% of the total Chignik-bound sockeye salmon catch (Appendix C1).

From 1992 to 1995, the harvest of Chignik-bound sockeye in the SEDM, averaged 113,258 salmon and 7.0% of the total Chignik-bound sockeye salmon harvest (Table 3; Figure 6).

1996-1997

In January 1996, the BOF made the following changes to the SEDM salmon management plan (Appendix C1):

- 1) The area to be managed for local Orzinski Lake sockeye salmon increased to include Orzinski Bay and the entire Northwest Stepovak Section (Figure 2). Prior to July 1, the entire Northwest Stepovak Section will be managed on an allocation based on the strength of the Chignik sockeye salmon runs as described in 5 AAC 09.360(a)(1) and (b)-(h). Beginning July 1, the Northwest Stepovak Section would be managed entirely on local stocks. The Stepovak Flats Section would continue to be managed on the basis of the Stepovak River chum salmon stocks.
- 2) The percentage of Chignik-bound sockeye salmon allocated to the SEDM fishery was decreased from 7.0% to 6.0% of the total Chignik-bound sockeye salmon harvest from June 1 through July 25. This BOF action was taken in an attempt to maintain traditional harvest levels of Chignik-bound sockeye salmon in the SEDM fishery and to compensate for the increased area managed for local Orzinski Lake sockeye salmon.
- 3) The BOF established a closed waters area encompassing Kupreanof Point, as described in 5 AAC 09.350(37), from July 6 through at least August 31 (Figure 7).

The SEDM management plan has had few changes since 1998 (Appendix C1).

CURRENT MANAGEMENT PLAN (1998-2006)

Under the 2006 SEDM management plan (5 AAC 09.360):

- 1) Prior to July 1, the SEDM (Figure 2) is managed on an allocation based on the strength of the Chignik Area sockeye salmon runs as described in 5 AAC 09.360 and 80% of the sockeye salmon caught are considered Chignik-bound. However, beginning July 1, all sockeye salmon caught in the NWSS are considered local fish and are not counted toward the allocation. The NWSS, outside Orzinski Bay, may open to commercial salmon fishing during July 1-July 25 if the Orzinski Lake sockeye salmon interim escapement objectives are being met, and the CMA sockeye salmon harvest is expected to be more than 600,000 fish through July 25. The BOF mandated fishing schedule for the NWSS, excluding Orzinski Bay from July 1-July 25, cannot exceed four days during a seven-day period. The maximum number of consecutive fishing days allowed is two (Figure 8).
- 2) Beginning July 1, the NWSS is managed entirely on local stocks. All sockeye salmon harvested in the NWSS after July 1 are considered to be from Orzinski Lake stocks. The Stepovak Flats Section is managed for chum salmon returning to local streams throughout the entire season. However, 80% of the sockeye salmon caught in the Stepovak Flats Section through July 25 are considered Chignik-bound fish (Figure 7).
- 3) The BOF allocated 6% of the total Chignik-bound sockeye salmon harvest from June 1 through July 25 to the SEDM fishery.
- 4) The BOF directed ADF&G to consider an extension of the Kupreanof Point closed waters area, as described in 5 AAC 09.350(37), by emergency order (Figure 7). The Kupreanof Point closed waters extension remains in effect through October 31 if the waters specified in 5 AAC 15.350(20) are closed to conserve coho salmon in the CMA.
- 5) Orzinski Bay may open to purse seine gear prior to July 11 if ADF&G determines the interim escapement objectives have been exceeded (Table 6).

The total Chignik-bound sockeye salmon harvest from June 1 through July 25 is calculated by adding 100% of the CMA sockeye salmon harvest, 90% of the Cape Igvak Section (KMA) and 80% of the SEDM sockeye salmon harvests from June 1-July 25, excluding 100% of the sockeye salmon caught within the NWSS from July 1-25 (5 AAC 09.360; ADF&G 2004).

There are two sockeye salmon runs into the Chignik Lakes watershed, the Black Lake (early) and the Chignik Lake (late) runs. The Black and Chignik Lakes sockeye salmon runs overlap (transition period) during late June through early July. In order to prevent over harvest of the late run during the transition, while the strength of the late run is being evaluated, the Cape Igvak and SEDM fisheries (except the NWSS beginning July 1) are usually closed. However, fishing may be allowed in the CMA to harvest excess early-run (Black Lake) sockeye salmon, even though late-run fish are present (Bouwens 2006a).

EFFORT LEVELS

From 1975 to 2000, a substantial increase in set gillnet effort occurred in the SEDM fishery (Figure 5; Appendix B6). The numbers of set gillnet permits fished increased from seven permits in 1975 to a high of 64 permits in 1993, 1996, and 2000. From 2001 to 2006, effort decreased from 53 permits in 2002 to 24 permits fished in 2006 (Table 5; Figure 5; Appendix B6). The number of set gillnet permits fished in the SEDM averaged 50 during 1996 to 2006 (Table 5). Historically, many fishermen participated in both set gillnet and purse seine fishing, and received a limited entry permit for each gear type. During the 1970s and 1980s, many of the dual permit holders sold or transferred their set gillnet permits and retained their purse seine permits. This action increased effort in the SEDM fishery, since many permits that were previously used part-time were now fished full-time. Recently an increasing number of the remaining dual permit holders are not using their purse seine permit because of low salmon prices and high purse seine operating costs while fishing their set gillnet permit. This has lowered the overall purse seine effort (Figure 4).

The number of SEDM set gillnet landings also increased from 1989 in 1978 to a high of 1,657 in 1984. However in 2006, due to curtailed fishing time, only 102 set gillnet landings were made (Table 5; Figure 9; Appendix B6). Set gillnet landings in the SEDM fishery averaged 440 from 1985 to 1991, 702 from 1992 to 1995, and 765 from 1996 to 2006 (Table 5). The number of purse seine permits fished has fluctuated dramatically since 1985, and ranged from 0 in 1994 to 69 in 1990, with 13 permits fished in 2006 (Table 5). The number of purse seine permits fished in the SEDM averaged 28 from 1985 to 1991, 22 from 1992 to 1995, and 17 from 1996 to 2006 (Table 5; Figure 10).

The number of SEDM purse seine landings has also fluctuated from 145 in 1983 to 0 in 1994, with 15 landings made in 2006 (Figure 9; Appendix B5). Purse seine landings in the SEDM averaged 56 from 1985 to 91, 32 from 1992 to 95, and 25 from 1996 to 2006 (Table 5).

LOCAL STOCKS FISHERIES

NORTHWEST STEPOVAK SECTION

Currently, commercial salmon fishing in the Northwest Stepovak Section is managed based on the strength of the Orzinski Lake sockeye salmon stock from July 1-25. During this period, a maximum of two consecutive fishing days and a total of four days within a seven-day period may be allowed (5 AAC 09.360; ADF&G 2004). After July 25, the section is managed under the

Post-June Management Plan and is based on the strength of local sockeye, pink (*O. gorbuscha*), chum (*O. keta*), and coho (*O. kisutch*) salmon.

Prior to July 1, 80% of the sockeye salmon harvested in the Northwest Stepovak Section are attributed to the Chignik-bound sockeye salmon allocation (Figure 8). Beginning July 1, all sockeye salmon caught within the Northwest Stepovak Section are considered to be Orzinski Lake stock.

Orzinski Lake sockeye salmon escapements were assessed using a weir from 1935 to 1941, and most recently from 1990 to 2006 (Appendix B10). Based on historical aerial surveys and weir counts, Orzinski Lake sockeye salmon escapement objectives were developed by time periods and implemented beginning with the 1991 season (Table 6). The escapement goal for Orzinski Lake is 15,000-20,000 sockeye salmon (Nelson et al. 2006). From 1990 to 2006, the escapement has averaged 34,247 sockeye salmon and ranged from a high of 75,450 in 2004 to a low of 15,000 in 1990 and 1999. Since 1990, July 11 has been the average date when 50% of the total annual sockeye escapement has been achieved (Figure 11).

In 2006, the Orzinski Lake weir was operated from June 8 through August 6 and 6,747 sockeye salmon (of which 167 were jack sockeye salmon) were counted through the weir (Table 7). The run was unusually late in 2006 and daily sockeye salmon escapements were still being tallied when the weir was removed for the season. A post weir estimate of 11,253 fish, from an aerial survey conducted on September 1, resulted in a total sockeye salmon escapement of 18,000 fish (Table 7).

STEPOVAK FLATS SECTION

Commercial salmon fishing in the Stepovak Flats Section is managed on the basis of the run strength of pink and chum salmon returning to Stepovak Flats streams. Eighty percent of the sockeye salmon harvest in this section were assigned as Chignik-bound fish, and included in the 6.0% allocation criteria stated in the current SEDM salmon management plan. To protect schooling chum salmon which are needed to achieve escapement requirements, the entire section is closed to salmon fishing by regulation beginning July 29. Prior to July 26, the Stepovak Flats Section is usually open concurrently with the rest of the SEDM (excluding the Northwest Stepovak Section).

2004 SEASON SUMMARY

The 2004 forecast for the total harvest of Chignik-bound sockeye salmon was 910,000 sockeye salmon for the first run (Black Lake) and 855,000 salmon for the second run (Chignik Lake) (Plotnik and Eggers 2004). The forecast indicated that a fishery could occur in the SEDM targeting Chignik-bound sockeye salmon since a harvest of at least 600,000 sockeye was expected in the CMA.

The strength of the Chignik early run was close to expectations and commercial fishing was allowed in the CMA beginning on June 9 (Bowens and Stichert 2006). The SEDM opened to commercial salmon fishing on June 15 and a total of four days of fishing time was allowed during June.

The 2004 late Chignik run was below forecast. The SEDM fishery was allowed only two days of fishing during July. The SEDM total sockeye salmon harvest was 210,545 fish, of which 150,399 were harvested in the NWSS, of which 141,351 sockeye were local, and 7,238 were non local

(Table 5). In the remainder of the SEDM, 60,146 sockeye were harvested, of which 12,029 were local and 48,117 were non local. The 2004 estimated Chignik component of the SEDM harvest was 55,355 sockeye salmon (sum of non local fish), which was 6.2% of the total CMA bound sockeye salmon harvest (Table 3).

In 2004, the total estimated Orzinski Lake sockeye salmon escapement was 75,450 fish (Appendix B10). This was well above the upper end of the escapement goal range of 15,000 to 20,000 adult sockeye salmon (Nelson et al. 2006). Fishing was permitted in the Northwest Stepovak Section beginning July 1 with a total of 14 days of fishing time during July 1-25. Fishing was permitted in Orzinski Bay beginning July 1 with a total of 25 days of fishing time during July 1-25.

The 2004 SEDM harvest through July 25 was 389 Chinook salmon *O. tshawytscha*, 210,545 sockeye salmon, 4,536 coho salmon *O. kisutch*, 57,617 pink salmon *O. gorbuscha*, and 5,827 chum salmon *O. keta* (Appendix B4). Purse seine fishers harvested 0 Chinook, 4,229 sockeye, 139 coho, 2,415 pink, and 0 chum salmon (Appendix B5). Set gillnet fishers harvested 389 Chinook, 206,316 sockeye, 4,397 coho, 55,202 pink, and 5,827 chum salmon (Appendix B6). Purse seine fishermen accounted for 2.0%, and set gillnet fishers 98.0% of the SEDM sockeye salmon harvest through July 25 (Table 2).

2005 SEASON SUMMARY

The 2005 forecast for the total harvest of Chignik-bound sockeye salmon was 1,490,000 sockeye salmon for the early run (Black Lake) and 302,000 salmon for the late run (Chignik Lake) (Eggers 2005). The forecast indicated that a fishery could occur in the SEDM targeting Chignik-bound sockeye salmon since a harvest of at least 600,000 sockeye was expected in the CMA.

The strength of the Chignik early run was as expected and commercial fishing was allowed in the CMA beginning on June 5 (Stichert 2006a *In prep*). The SEDM opened to commercial salmon fishing on June 15 and a total of eight days of fishing time was allowed during June.

The 2005 late Chignik run was below forecast. The SEDM fishery was allowed only one day of fishing during July. The SEDM total sockeye salmon harvest was 245,153 fish, of which 58,243 were harvested in the NWSS, of which 22,771 sockeye were local, and 28,378 were non-local (Table 5). In the remainder of the SEDM 186,910 sockeye were harvested, of which 37,382 were local and 149,528 were non local. The 2005 estimated Chignik component of the SEDM harvest was 177,906 sockeye salmon (sum of non local fish), 11.5% of the total CMA bound sockeye salmon harvest (Table 3).

In 2005, the total estimated Orzinski Lake sockeye salmon escapement was 44,797 fish (Appendix B10). This was well above the upper end of the escapement goal range of 15,000 to 20,000 adult sockeye salmon (Nelson et al. 2006). Fishing was permitted in the Northwest Stepovak Section beginning July 22 with a total of 2 days of fishing time during July 1-25. An additional 14 hours of fishing was permitted in Orzinski Bay during July 1-25.

The 2005 SEDM salmon harvest was 97 Chinook, 245,153 sockeye, 6,030 coho, 312,207 pink, and 9,633 chum salmon (Appendix B4). Purse seine fishers harvested 39 Chinook, 92,175 sockeye, 5,027 coho, 281,352 pink, and 5,193 chum salmon (Appendix B5). Set gillnet fishers harvested 58 Chinook, 152,978 sockeye, 1,003 coho, 30,855 pink, and 4,440 chum salmon (Appendix B6). Purse seine fishers accounted for 37.6%, and set gillnet fishers 62.4% of the SEDM sockeye salmon harvest through July 25 (Table 2).

2006 SEASON SUMMARY

The 2006 forecast for the total harvest of Chignik-bound sockeye salmon was 1,210,000 sockeye salmon for the early run (Black Lake) and 282,000 salmon for the late run (Chignik Lake) (Eggers 2006). The forecast indicated that a fishery could occur in the SEDM targeting Chignik-bound sockeye salmon since a harvest of at least 600,000 sockeye was expected in the CMA.

The Chignik early run materialized later than expected and commercial fishing was not allowed in the CMA until June 14 (Stichert 2006b *In prep*). Commercial fishing was then suspended in Chignik from June 18 through June 24, to allow for adequate escapement. Due to the late timing of the early Chignik run and the lower than expected Chignik harvest, the SEDM did not open to commercial salmon fishing in June.

The 2006 Chignik late run was above forecast. The SEDM fishery was allowed 36 hours of fishing time through July 25. The SEDM total sockeye salmon harvest was 77,513 fish, of which 0 were harvested in the NWSS (Table 5). The composition of the harvest was 77,513 sockeye were harvested, of which 15,503 were local and 62,010 were non local. The 2006 estimated Chignik component of the SEDM harvest was 62,010 sockeye salmon which was 7.3% of the total CMA bound sockeye salmon harvest (Table 3).

In 2006, the total estimated Orzinski Lake sockeye salmon escapement was 18,000 fish (Table 7; Appendix B10). This was the second lowest escapement on record since the weir was installed in 1990. However, it was above the lower end of the escapement goal range of 15,000 to 20,000 adult sockeye salmon (Nelson et al. 2006). Due to the late timing of the Chignik early run, and low Orzinski escapement, fishing was not permitted in the Northwest Stepovak Section between June 1 and July 25. Furthermore, no additional fishing was permitted in Orzinski Bay during July 1-25.

The 2006 SEDM salmon harvest was 29 Chinook, 77,513 sockeye, 2,805 coho, 77,685 pink, and 13,259 chum salmon (Appendix B4). Purse seine fishers harvested 25 Chinook, 37,664 sockeye, 2,466 coho, 69,775 pink, and 8,558 chum salmon (Appendix B5). Set gillnet fishers harvested 4 Chinook, 39,849 sockeye, 339 coho, 7,910 pink, and 4,701 chum salmon (Appendix B6). Purse seine fishers accounted for 48.6 %, and set gillnet fishers 51.4% of the SEDM sockeye salmon harvest through July 25 (Table 2).

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TABLES AND FIGURES

Table 1.-Southeastern District Mainland commercial sockeye salmon harvest by gear type, June 1 through July 10, 1970-2006.

Year	Set Gillnet ^a		Purse Seine		Total Catch
	Number	Percent	Number	Percent	
1970	76,251	95.8	3,357	4.2	79,608
1971	48,523	97.5	1,240	2.5	49,763
1972	14,874	96.8	490	3.2	15,364
1973	35,130	98.0	703	2.0	35,833
1974	47,924	79.2	12,610	20.8	60,534
1975	0	0.0	0	0.0	0
1976	50,385	93.9	3,276	6.1	53,661
1977	21,981	73.0	8,132	27.0	30,113
1978	25,449	100.0	0	0.0	25,449
1979	38,200	100.0	0	0.0	38,200
1980	51,365	100.0	0	0.0	51,365
1981	133,371	100.0	0	0.0	133,371
1982	60,386	100.0	0	0.0	60,386
1983	121,625	100.0	0	0.0	121,625
1984	532,151	100.0	0	0.0	532,151
1985	61,160	100.0	0	0.0	61,160
1986	140,329	100.0	0	0.0	140,329
1987	216,609	100.0	0	0.0	216,609
1988	17,924	100.0	0	0.0	17,924
1989	11,728	100.0	0	0.0	11,728
1990	20,177	100.0	0	0.0	20,177
1991	251,386	100.0	0	0.0	251,386
1992	134,978	100.0	0	0.0	134,978
1993	135,950	100.0	0	0.0	135,950
1994	177,938	100.0	0	0.0	177,938
1995	72,484	100.0	0	0.0	72,484
1996	194,535	100.0	0	0.0	194,535
1997	84,206	100.0	0	0.0	84,206
1998	9,777	100.0	0	0.0	9,777
1999	169,832	100.0	0	0.0	169,832
2000	129,462	100.0	0	0.0	129,462
2001	56,077	100.0	0	0.0	56,077
2002	88,589	100.0	0	0.0	88,589
2003	126,261	100.0	0	0.0	126,261
2004	128,100	100.0	0	0.0	128,100
2005	88,376	100.0	0	0.0	88,376
2006	0	100.0	0	0.0	0
Averages					
1970-1977	36,884	79.3	3,726	8.2	40,610
1997-2006	88,068	100.00	0.00	0.00	88,068

^a Only set gillnet gear is allowed prior to July 11 since the 1978 season

Table 2.-Southeastern District Mainland commercial sockeye salmon harvest by gear type, June 1 through July 25, 1970-2006.

Year	Set Gillnet		Purse Seine		Total Catch
	Number	Percent	Number	Percent	
1970	80,692	95.4	3,904	4.6	84,596
1971	60,767	95.9	2,587	4.1	63,354
1972	19,491	92.4	1,614	7.6	21,105
1973	46,141	97.9	976	2.1	47,117
1974	66,101	74.9	22,129	25.1	88,230
1975	1,807	57.3	1,349	42.7	3,156
1976	52,414	90.2	5,712	9.8	58,126
1977	30,658	70.5	12,827	29.5	43,485
1978	28,930	92.7	2,267	7.3	31,197
1979	77,604	87.5	11,136	12.5	88,740
1980	89,743	93.0	6,729	7.0	96,472
1981	181,698	90.1	20,013	9.9	201,711
1982	79,442	91.5	7,351	8.5	86,793
1983	213,051	71.0	87,107	29.0	300,158
1984	567,043	95.3	28,000	4.7	595,043
1985	78,347	96.8	2,610	3.2	80,957
1986	196,545	95.2	9,987	4.8	206,532
1987	244,413	99.8	482	0.2	244,895
1988	77,204	95.1	3,956	4.9	81,160
1989	46,977	52.7	42,247	47.3	89,224
1990	85,368	52.0	78,660	48.0	164,028
1991	275,768	95.2	13,959	4.8	289,727
1992	214,638	99.6	806	0.4	215,444
1993	186,656	88.5	24,271	11.5	210,927
1994	221,657	100.0	0	0.0	221,657
1995	139,515	87.5	19,866	12.5	159,381
1996	276,212	97.2	7,864	2.8	284,076
1997	293,750	96.4	11,115	3.6	304,865
1998	74,069	63.2	43,062	36.8	117,131
1999	205,706	94.8	11,320	5.2	217,026
2000	199,605	98.6	2,830	1.4	202,435
2001	102,213	95.9	4,394	4.1	106,607
2002	145,656	94.9	7,813	5.1	153,469
2003	211,069	94.8	11,582	5.2	222,651
2004	206,316	98.0	4,229	2.0	210,545
2005	152,978	62.4	92,175	37.6	245,153
2006	39,849	51.4	37,664	48.6	77,513
Average 1987-2006	169,981	85.9	20,915	14.1	190,896
Average 1997-2006	163,121	85.0	22,618	15.0	185,740

Table 3.-Harvest of sockeye salmon considered to be Chignik-bound by regulation in the Chignik, Cape Igvak, and Southeastern District Mainland areas from 1964-2006.

Year	Chignik Area		Cape Igvak ^a		Southeastern District Mainland Area ^a		Total Harvest
	Catch	Percent	Catch	Percent	Catch	Percent	
1964 ^b	556,890	90.6	14,980	2.4	43,021	7.0	614,891
1965 ^b	599,553	89.9	11,021	1.7	56,020	8.4	666,594
1966 ^b	219,794	88.0	18,003	7.2	12,011	4.8	249,808
1967 ^b	462,000	91.5	23,014	4.6	20,021	4.0	505,035
1968 ^b	977,382	82.5	135,951	11.5	70,959	6.0	1,184,292
1969 ^b	394,135	79.0	97,982	19.6	7,013	1.4	499,130
1970 ^{b,c}	1,325,734	72.5	434,394	23.8	68,181	3.7	1,828,309
1971	1,016,136	80.3	197,614	15.6	51,272	4.1	1,265,022
1972	378,218	88.0	33,865	7.9	17,752	4.1	429,835
1973 ^d	769,258	89.0	57,348	6.6	37,983	4.4	864,589
1974	530,278	73.6	122,071	16.9	68,029	9.4	720,378
1975	115,984	81.8	23,635	16.7	2,205	1.6	141,824
1976	792,024	83.0	117,926	12.4	44,730	4.7	954,680
1977	1,547,285	90.4	128,852	7.5	35,502	2.1	1,711,639
1978 ^{e,f}	1,454,389	85.4	227,014	13.3	22,064	1.3	1,703,467
1979 ^g	794,504	91.8	13,950	1.6	56,878	6.6	865,332
1980	670,001	91.3	32	0.0	63,724	8.7	733,757
1981	1,606,300	79.9	282,727	14.1	122,533	6.1	2,011,560
1982	1,250,768	84.5	167,401	11.3	62,767	4.2	1,480,936
1983	1,450,832	72.7	318,048	15.9	227,392	11.4	1,996,272
1984	2,474,405	73.9	449,372	13.4	423,068	12.6	3,346,845
1985 ^h	696,169	79.9	123,627	14.2	51,421	5.9	871,217
1986	1,456,729	82.6	188,017	10.7	118,006	6.7	1,762,752
1987	1,659,615	78.0	321,506	15.1	146,886	6.9	2,128,007
1988	675,487	95.7	11,218	1.6	19,320	2.7	706,025
1989	496,044	99.1	0	0.0	4,485	0.9	500,529
1990	1,205,575	83.6	107,706	7.5	128,599	8.9	1,441,880
1991 ⁱ	1,958,954	80.4	324,329	13.3	152,714	6.3	2,435,997
1992 ^j	1,054,309	81.1	152,358	11.7	93,845	7.2	1,300,512
1993	1,495,098	77.7	300,055	15.6	128,536	6.7	1,923,689
1994 ^k	1,632,435	80.6	250,230	12.4	142,350	7.0	2,025,015
1995	1,024,785	79.9	169,530	13.2	88,302	6.9	1,282,617
1996 ^l	1,710,249	79.7	308,327	14.4	127,201	5.9	2,145,777
1997	443,892	100.0	0	0.0	0	0.0	443,892
1998 ^{m,n}	786,466	91.2	8,813	1.0	66,893	7.8	862,172
1999	2,326,811	78.7	456,147	15.4	173,621	5.9	2,956,579
2000	1,509,652	80.1	272,808	14.5	103,419	5.5	1,885,879
2001 ^o	1,145,840	81.1	215,214	15.2	51,141	3.6	1,412,195
2002 ^p	851,030	81.1	135,818	12.9	63,026	6.0	1,049,874
2003	859,124	81.7	121,923	11.6	70,044	6.7	1,051,091

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Table 3.-Page 2 of 3.

Year	Chignik Area		Cape Igvak		Southeastern District Mainland Area		Total
	Catch	Percent	Catch	Percent	Catch	Percent	
2004	681,120	75.9	160,665	17.9	55,355	6.2	897,140
2005	1,098,718	70.8	274,328	17.7	177,906	11.5	1,550,952
2006	741,887	87.7	41,834	4.9	62,010	7.3	845,731
Averages							
1979-1982	1,080,393	86.9	116,028	6.7	76,476	6.4	1,272,896
1985-1991	1,164,082	85.6	153,772	8.9	88,776	5.5	1,406,630
1992-1995	1,301,657	79.8	218,043	13.2	113,258	7.0	1,632,958
1996-2006	1,104,981	83	181,443	11	86,420	6.0	1,372,844

^a The Cape Igvak and Southeastern District Mainland (SEDM) figures represent 80% of the total sockeye salmon catches for those areas based on the premise that 80% of the sockeye salmon caught in the Cape Igvak Section and the SEDM (excluding sockeye salmon caught in Northwest Stepovak Section from 1964-1991 and 1996-2006 and in Orzinski Bay only from 1992-1995) are bound for the Chignik Management Area (CMA).

^b The data from 1964-1972 are based on total yearly catches. Prior to 1974, Cape Igvak and Southeastern District Mainland fisheries were set by regulation to weekly fishing periods, usually five days per week. Time modifications were implemented when poor escapements occurred at Chignik.

^c Catches (1970-1992) were updated using historical electronic fish ticket databases.

^d During 1974-1977 all three fisheries were managed on a day by day basis.

^e From 1978-1991, the Cape Igvak Fishery Management Plan allocated 15 percent of the total sockeye salmon catch destined for Chignik.

^f During 1978, seining prior to July 11 was not allowed in the SEDM. Set gillnet fishers were allowed to fish three days per week through July 10, after which the fishery was managed on the basis of local stocks.

^g During 1979-1984 and prior to July 11, fishing was allowed five days per week in the Southeastern District Mainland Area with a maximum harvest of an estimated 60,000 sockeye salmon destined for Chignik. If the Chignik Area sockeye catch was 1,000,000 or more before July 11, the 60,000 maximum harvest was to be dropped.

^h Beginning in 1985, the SEDM was placed on an allocation of 6.2 percent of the total estimated Chignik sockeye salmon catch June 1 through July 25. After July 25, the SEDM is managed on a local stock basis. The allocation changed to 6.0 percent beginning in 1988. Seining was still not allowed prior to July 11.

ⁱ Includes overescapement of 278,305 sockeye counted past the weir during the Chignik Area seiners' boycott (Jun 23-Jul 4, 1991).

^j Review of Orzinski Lake historical and current escapement records led the BOF to redefine the SEDM Management Plan. Beginning in 1992, the SEDM fishery (excluding Orzinski Bay) was placed on an allocation of 7.0 percent of the total estimated Chignik sockeye salmon catch through July 25.

^k Includes overescapement of 208,921 sockeye salmon counted past the weir during the Chignik Area seiners' strike (June 22-June 25, 1994).

^l During the January 1996 BOF meeting, the area to be managed for local Orzinski Lake sockeye salmon was increased from only Orzinski Bay to the entire Northwest Stepovak Section. Prior to July 1, the entire Northwest Stepovak Section was to be managed on an allocation based on the strength of the Chignik sockeye salmon runs. Beginning July 1, the Northwest Stepovak Section was to be managed entirely on local stocks. The BOF also decreased the percentage of sockeye salmon allocated to the SEDM fishery from 7% to 6% to attempt to maintain traditional harvest levels of Chignik-bound sockeye salmon in the SEDM fishery.

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Table 3.-Page 3 of 3.

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- ^m During the January 1998 BOF meeting, the area managed entirely for local Orzinski Lake sockeye salmon was reduced from the entire Northwest Stepovak Section to only Orzinski Bay. All sockeye salmon caught in the Northwest Stepovak Section beginning July 1 would still be considered 100% local fish and not counted toward the 6% allocation. The remainder of SEDM sockeye salmon harvest allocated as 80% Chignik-bound fish to ensure a minimum harvest of 600,000 sockeye salmon in Chignik through July 25.
- ⁿ Includes 7,714 sockeye salmon caught by the Chignik Seiners Association (CSA), and an overescapement of 52,131 sockeye salmon counted past the weir during the CSA boycott (June 16-29, 1998).
- ^o CMA harvest includes a foregone harvest of 398,887 sockeye salmon, which escaped past the weir as a result of a fishermen's strike in the CMA. SEDM harvest includes a foregone harvest of 27,896 sockeye salmon, which escaped past the weir as a result of a fishermen's strike in the SEDM.
- ^p Beginning in 2002, the percent of sockeye salmon harvested in the Cape Igvak Section considered to be Chignik-bound was increased from 80% to 90%.
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Table 4.-Harvest of sockeye salmon considered to be Chignik-bound by regulation in the Southeastern District Mainland, in number of fish and percent by gear type, June 1 through July 25, 1970-2006.

Year	Set Net		Purse Seine		Total Catch
	Number	Percent	Number	Percent	
1970 ^a	63,688	94.2	3,894	5.8	67,582
1971 ^a	48,575	95.9	2,066	4.1	50,641
1972 ^a	15,593	92.4	1,291	7.6	16,884
1973 ^a	37,240	98.0	743	2.0	37,983
1974 ^a	56,263	82.7	11,766	17.3	68,029
1975 ^a	1,126	51.1	1,079	48.9	2,205
1976 ^a	41,764	93.4	2,966	6.6	44,730
1977 ^a	26,473	74.6	9,029	25.4	35,502
1978 ^a	20,286	91.9	1,778	8.1	22,064
1979 ^a	52,065	91.5	4,813	8.5	56,878
1980 ^a	58,210	91.3	5,514	8.7	63,724
1981 ^a	107,474	87.7	15,059	12.3	122,533
1982 ^a	57,646	91.8	5,121	8.2	62,767
1983 ^a	157,831	69.4	69,561	30.6	227,392
1984 ^a	404,738	95.7	18,330	4.3	423,068
1985 ^a	49,523	96.3	1,898	3.7	51,421
1986 ^a	110,572	93.7	7,434	6.3	118,006
1987 ^a	146,636	99.8	250	0.2	146,886
1988 ^a	16,465	85.2	2,855	14.8	19,320
1989 ^a	4,371	97.5	114	2.5	4,485
1990 ^a	65,671	51.1	62,928	48.9	128,599
1991 ^a	152,454	99.8	260	0.2	152,714
1992 ^b	93,564	99.7	281	0.3	93,845
1993 ^b	109,119	84.9	19,417	15.1	128,536
1994 ^b	142,350	100.0	0	0.0	142,350
1995 ^b	73,864	83.6	14,438	16.4	88,302
1996 ^c	123,625	97.2	3,576	2.8	127,201
1997 ^c	0	0.0	0	0.0	0
1998 ^d	32,455	48.5	34,438	51.5	66,893
1999 ^d	164,565	94.8	9,056	5.2	173,621
2000 ^d	101,433	98.1	1,986	1.9	103,419
2001 ^d	47,626	93.1	3,515	6.9	51,141
2002 ^d	57,929	91.9	5,097	8.1	63,026
2003 ^d	62,221	88.8	7,823	11.2	70,044
2004	55,355	100.0	0	0.0	55,355
2005	105,908	59.5	71,998	40.5	177,906
2006	31,879	51.4	30,131	48.6	62,010

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Table 4.-Page 2 of 2.

Year	Set Net		Purse Seine		Total Catch
	Number	Percent	Number	Percent	
Averages					
1987-2006	79,374	81.2	13,408	13.7	92,783
1996-2006	71,181	74.8	15,238	16.1	86,420

^a From 1970-91, the Chignik contribution was 80% of the sockeye salmon harvested in Beaver Bay, Balboa Bay, Southwest Stepovak, Stepovak Flats, and East Stepovak Sections.

^b From 1992-95, the Chignik contribution was 80% of the sockeye salmon harvested in the Southeastern District Mainland fishery except Orzinski Bay where 100% of the sockeye salmon were considered local.

^c During their January 1996 meeting, the BOF increased the area to be managed for local Orzinski Lake sockeye salmon from only Orzinski Bay to the entire Northwest Stepovak Section. Prior to July 1, the entire Northwest Stepovak Section was managed on an allocation based on the strength of the Chignik sockeye salmon runs. Beginning July 1, the Northwest Stepovak Section would be managed entirely on local stocks. The BOF also decreased the percentage of sockeye salmon allocated to the SEDM fishery from 7% to 6% to attempt to maintain traditional harvest levels of Chignik-bound sockeye in the SEDM fishery.

^d During their January 1998 meeting, the BOF reduced the area managed entirely for local Orzinski Lake sockeye salmon from the entire Northwest Stepovak Section to only Orzinski Bay. All sockeye salmon caught in the Northwest Stepovak Section beginning July 1 would still be considered 100% local fish and not counted toward the 6% allocation. The remainder of SEDM sockeye salmon harvest was allocated as 80% Chignik bound fish to ensure a minimum harvest of 600,000 sockeye salmon in Chignik through July 25.

Table 5.-Southeastern District Mainland commercial fishing effort and assignment of sockeye salmon harvests June 1-July 25, 1985-2006.

Year	Effort				Northwest Stepovak			SEDM minus Northwest Stepovak		SEDM		Total Catch
	Gillnet		Seine		Total	"Local"	"Non-local"	"Local"	"Non-local"	"Local"	"Non-local"	
	Permits	Landings	Permits	Landings								
1985 ^a	49	367	23	51	16,681	16,681	0	12,855	51,421	29,536	51,421	80,957
1986 ^a	42	616	18	29	59,025	59,025	0	29,501	118,006	88,526	118,006	206,532
1987 ^a	53	528	6	9	61,287	61,287	0	36,722	146,886	98,009	146,886	244,895
1988 ^a	41	300	16	45	57,010	57,010	0	4,830	19,320	61,840	19,320	81,160
1989 ^a	42	248	25	54	83,618	83,618	0	1,121	4,485	84,739	4,485	89,224
1990 ^a	46	277	69	131	3,279	3,279	0	32,609	128,599	35,888	128,599	166,322
1991 ^a	59	747	39	71	98,834	98,834	0	38,179	152,714	137,013	152,714	289,727
1992 ^b	59	650	6	14	113,428	101,198	12,232	20,403	81,613	121,599	93,845	215,444
1993 ^b	64	763	53	82	73,747	54,955	18,792	27,436	109,744	82,391	128,536	210,927
1994 ^b	56	678	0	0	89,522	52,880	36,642	26,427	105,708	79,307	142,350	221,657
1995 ^b	58	718	27	30	62,598	51,723	10,875	19,357	77,426	71,079	88,301	160,362
1996 ^c	64	1,164	25	46	137,925	127,645	10,280	29,230	116,921	156,875	127,201	284,076
1997 ^c	57	1,173	12	23	304,865	304,865	0	0	0	304,865	0	304,865
1998 ^c	45	340	20	23	33,515	33,515	0	16,723	66,893	50,238	66,893	117,131
1999 ^c	63	649	27	30	32,884	6,577	26,307	36,828	147,313	43,405	173,621	217,026
2000 ^c	64	1,163	26	31	89,857	76,500	13,357	22,516	90,062	99,016	103,419	202,435
2001 ^c	51	551	16	20	42,681	42,681	0	12,785	51,141	55,466	51,141	106,607
2002 ^c	53	1,001	12	25	85,086	76,767	8,319	13,677	54,706	90,444	63,026	153,469
2003 ^c	48	1,035	11	20	142,620	136,601	6,019	16,006	64,025	152,607	70,044	222,651
2004 ^c	42	764	2	10	150,399	141,351	7,238	12,029	48,117	155,190	55,355	210,545
2005 ^c	43	474	21	36	58,243	22,771	28,378	37,382	149,528	67,247	177,906	245,153
2006 ^c	24	102	13	15	0	0	0	15,503	62,010	15,503	62,010	77,513
Average:												
1985-1991	47	440	28	56	54,248	54,248	0	22,260	88,776	76,507	88,776	165,545
1992-1995	59	702	22	32	84,824	65,189	19,635	23,406	93,623	88,594	113,258	202,098
1996-2006	50	765	17	25	98,007	88,116	9,082	19,334	77,338	108,260	86,420	194,679

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Table 5.-Page 2 of 2.

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- ^a From 1970 through 1991, the Chignik contribution was 80% of the sockeye salmon harvested in the Beaver Bay, Balboa Bay, Southwest Stepovak, Stepovak Flats, and East Stepovak Sections.
- ^b From 1992 through 1995, the Chignik contribution was 80% of the sockeye salmon harvested in the Southeastern District Mainland (SEDM) fishery, except Orzinski Bay where 100% of the sockeye salmon were considered local production.
- ^c From 1996 through 2006, the Chignik contribution was 80% of the sockeye salmon harvested in the SEDM fishery, except beginning July 1, in the Northwest Stepovak Section where 100% of the sockeye salmon were considered local production.
-

Table 6.-Sockeye salmon interim escapement objectives for Orzinski Lake, 1990-2006.

Date	Cumulative Number of Fish
June 15	0
July 1	2,000
July 9	5,000
July 16	10,000
July 23	15,000
August 7	20,000
Season Total	20,000

Table 7.-Sockeye salmon daily and cumulative escapement counts through Orzinski Lake weir, 2006.

Date	Daily			Cumulative		
	Adults	Jacks	Total	Adults	Jacks	Total
8-Jun	0	0	0	0	0	0
9-Jun	0	0	0	0	0	0
10-Jun	0	0	0	0	0	0
12-Jun	0	0	0	0	0	0
13-Jun	0	0	0	0	0	0
14-Jun	0	0	0	0	0	0
15-Jun	0	0	0	0	0	0
16-Jun	0	0	0	0	0	0
17-Jun	0	0	0	0	0	0
18-Jun	0	0	0	0	0	0
19-Jun	0	0	0	0	0	0
20-Jun	0	0	0	0	0	0
21-Jun	0	0	0	0	0	0
22-Jun	3	0	3	3	0	3
23-Jun	34	0	34	37	0	37
24-Jun	4	0	4	41	0	41
25-Jun	1	0	1	42	0	42
26-Jun	0	0	0	42	0	42
27-Jun	0	0	0	42	0	42
28-Jun	0	0	0	42	0	42
29-Jun	8	0	8	50	0	50
30-Jun	4	0	4	54	0	54
1-Jul	0	0	0	54	0	54
2-Jul	1	0	1	55	0	55
3-Jul	82	3	85	137	3	140
4-Jul	3	0	3	140	3	143
5-Jul	2	0	2	142	3	145
6-Jul	30	0	30	172	3	175
7-Jul	18	0	18	190	3	193
8-Jul	36	0	36	226	3	229
9-Jul	612	7	619	838	10	848
10-Jul	1,046	8	1,054	1,884	18	1,902
11-Jul	19	2	21	1,903	20	1,923
12-Jul	9	0	9	1,912	20	1,932
13-Jul	0	0	0	1,912	20	1,932
14-Jul	6	1	7	1,918	21	1,939
15-Jul	22	1	23	1,940	22	1,962
16-Jul	41	1	42	1,981	23	2,004
17-Jul	1,559	58	1,617	3,540	81	3,621
18-Jul	0	0	0	3,540	81	3,621
19-Jul	20	0	20	3,560	81	3,641
20-Jul	58	0	58	3,618	81	3,699
21-Jul	491	6	497	4,109	87	4,196

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Table 7.-Page 2 of 2.

Date	Daily			Cumulative		
	Adults	Jacks	Total	Adults	Jacks	Total
22-Jul	24	1	25	4,133	88	4,221
23-Jul	390	31	421	4,523	119	4,642
24-Jul	10	0	10	4,533	119	4,652
25-Jul	38	4	42	4,571	123	4,694
26-Jul	0	0	0	4,571	123	4,694
27-Jul	8	2	10	4,579	125	4,704
28-Jul	8	2	10	4,587	127	4,714
29-Jul	0	0	0	4,587	127	4,714
30-Jul	16	2	18	4,603	129	4,732
31-Jul	20	1	21	4,623	130	4,753
1-Aug	199	5	204	4,822	135	4,957
2-Aug	184	1	185	5,006	136	5,142
3-Aug	1,551	31	1,582	6,557	167	6,724
4-Aug	0	0	0	6,557	167	6,724
5-Aug	23	0	23	6,580	167	6,747
6-Aug	0	0	0	6,580	167	6,747
Total				17,833	167	18,000

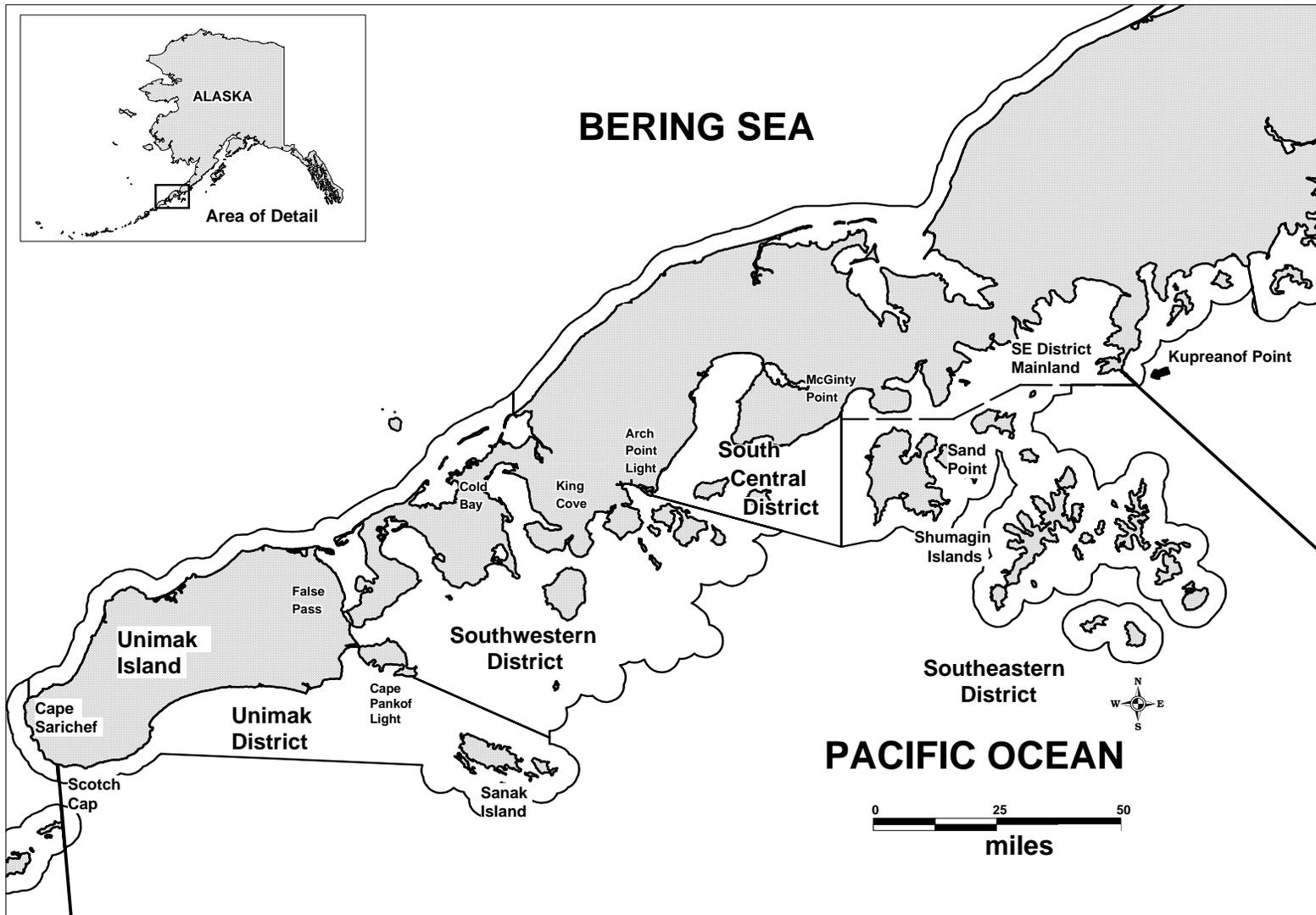


Figure 1.-Map of the South Alaska Peninsula Management Area from Kupreanof Point to Scotch Cap with the South Peninsula salmon fishing districts depicted.

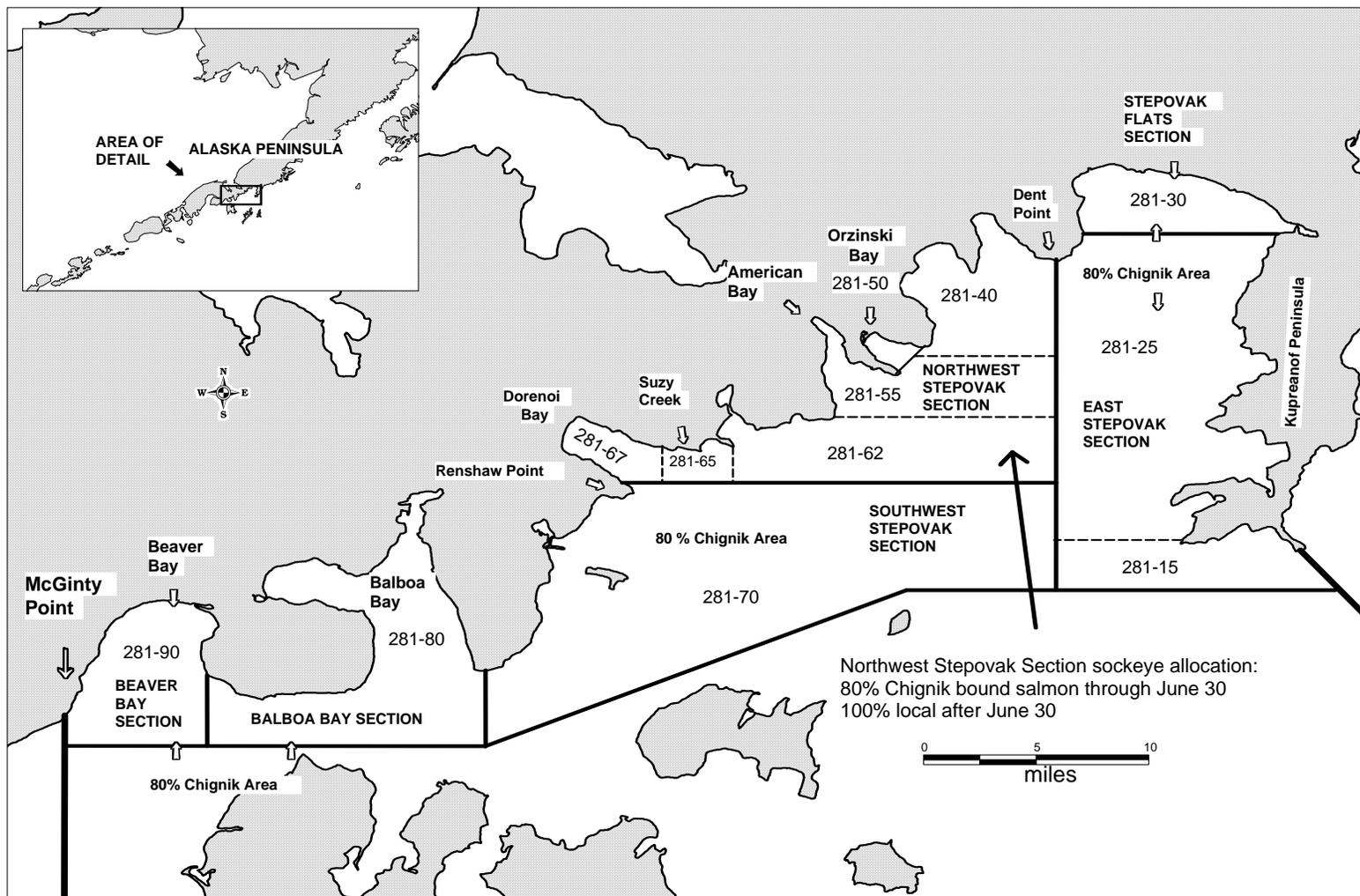


Figure 2.-Map of the Southeastern District Mainland (SEDM) fishery from Kupreanof Point to McGinty Point with the salmon fishing sections defined.

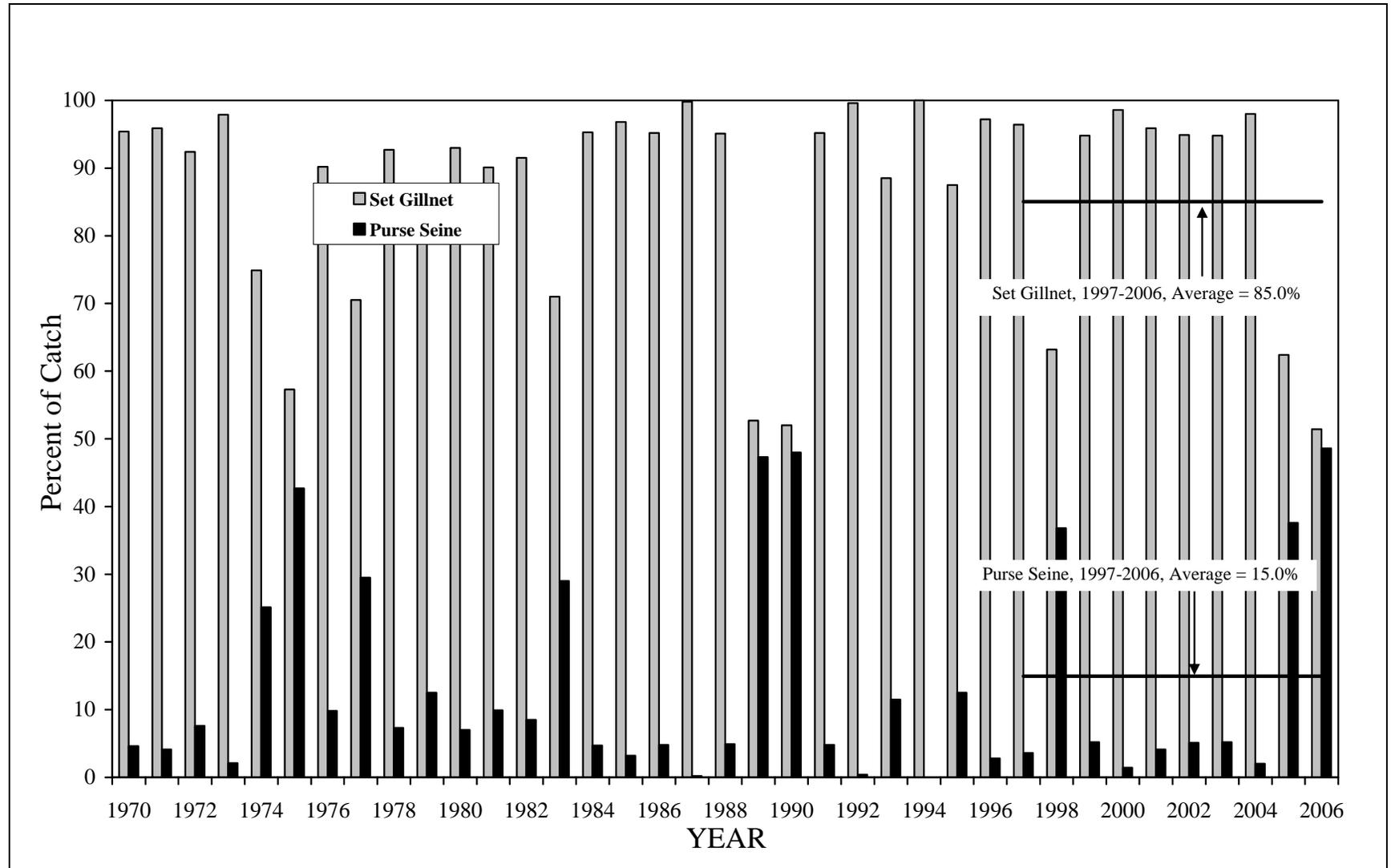


Figure 3.-Sockeye salmon harvest in percent by gear type, June 1 through July 25, Southeastern District Mainland, 1970-2006.

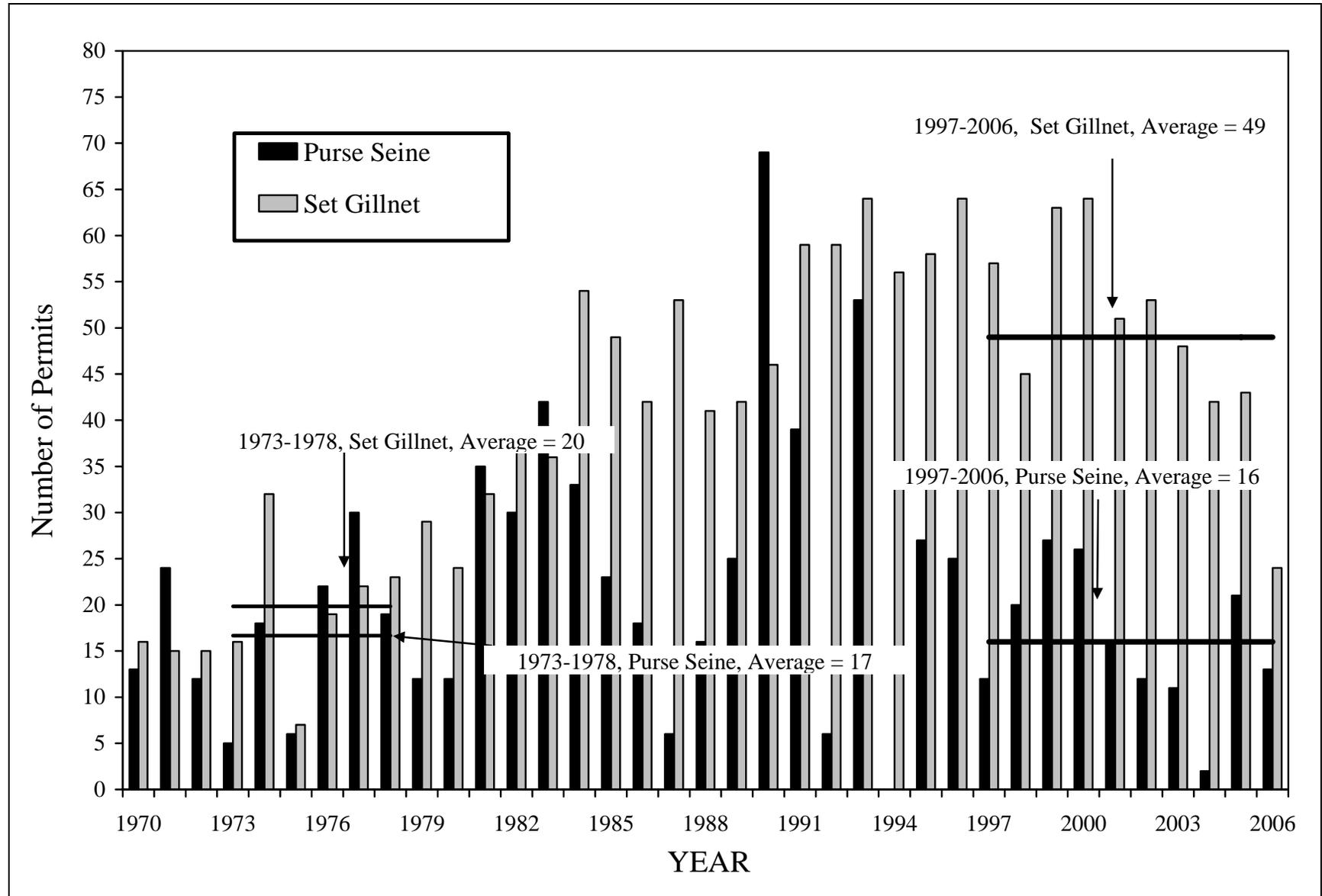


Figure 4.-Southeastern District Mainland CFEC permits fished by gear type, June 1 through July 25, 1970-2006.

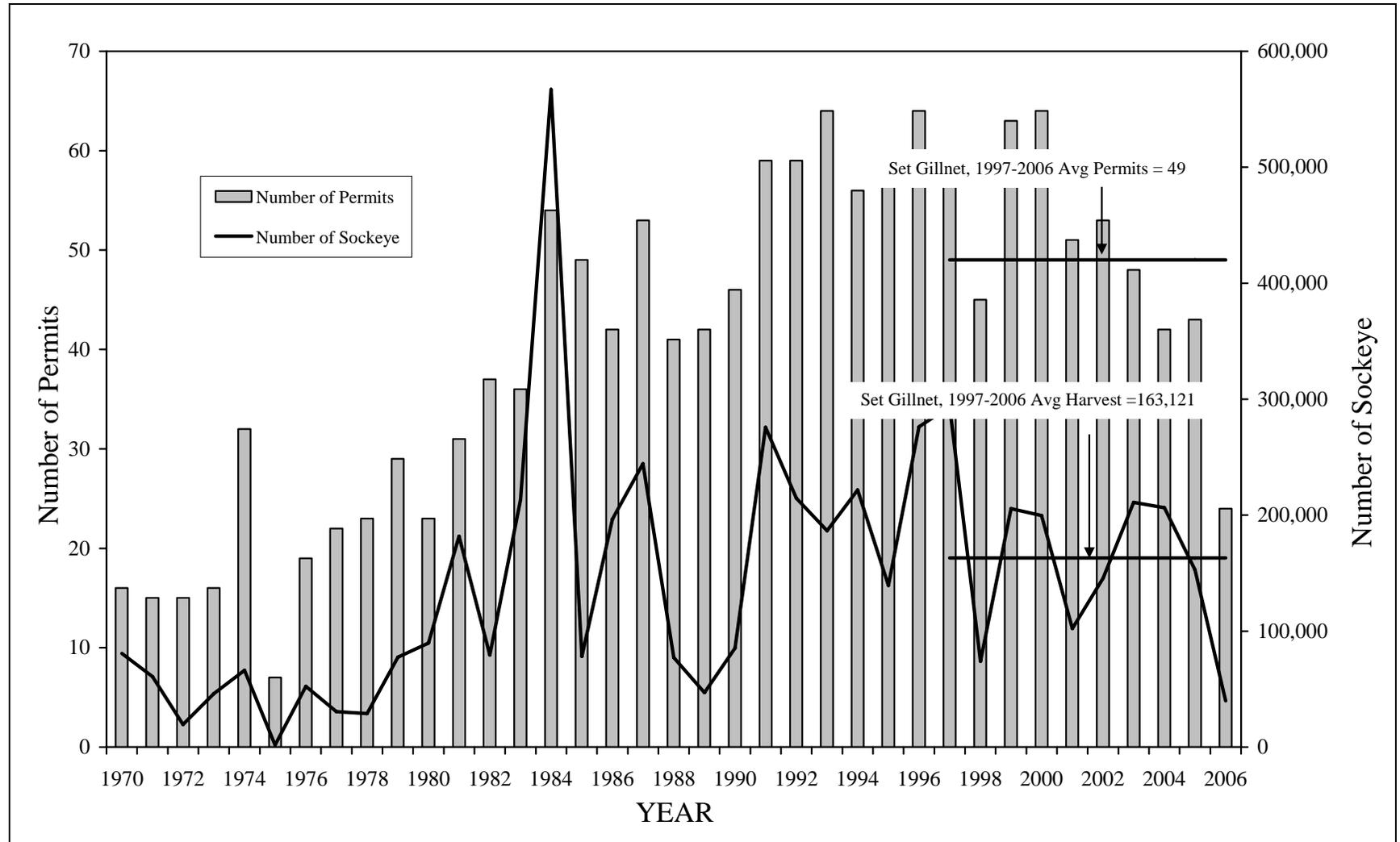


Figure 5.-Set gillnet effort and sockeye salmon harvests in the Southeastern District Mainland fishery, June 1 through July 25, 1970-2006.

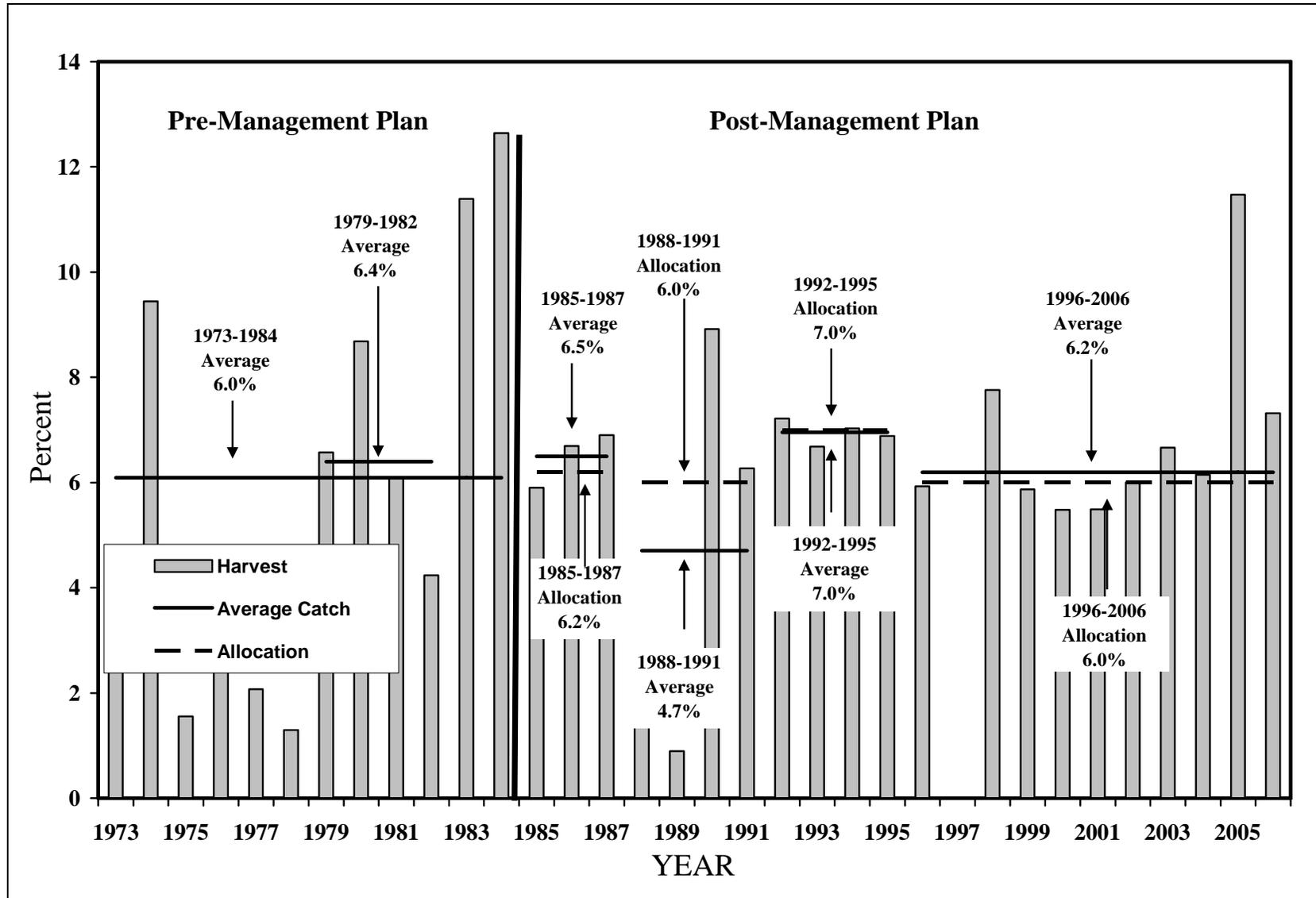


Figure 6.—Percentage harvest of sockeye salmon considered to be Chignik-bound by regulation in the Southeastern District Mainland fishery, June 1 through July 25, 1973-2006.

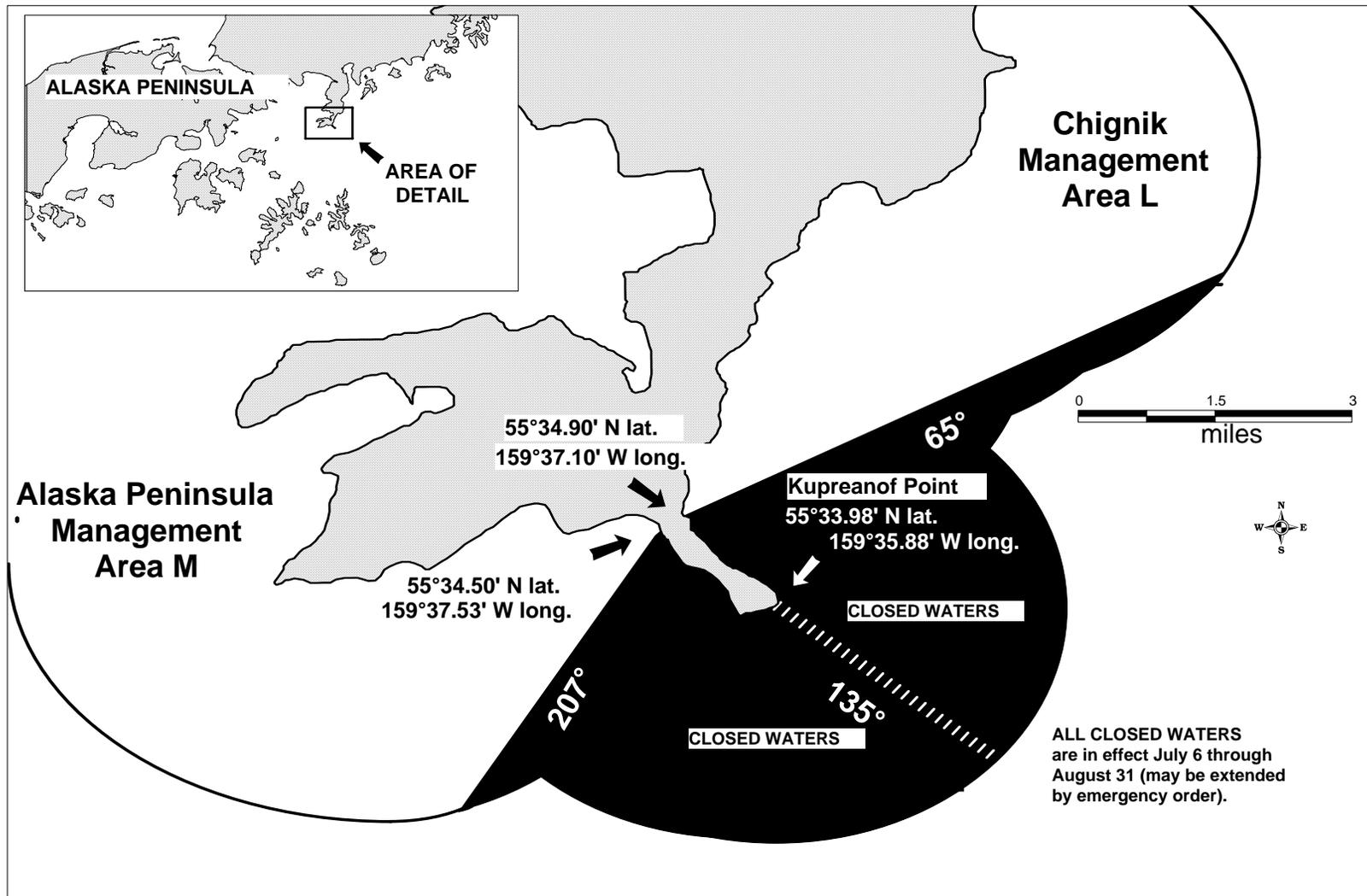


Figure 7.-Map of Kupreanof Point vicinity with closed waters defined.

SOUTHEASTERN DISTRICT MAINLAND

**THE REGULATORY REQUIREMENTS OF THIS PLAN ARE DESCRIBED IN 5 AAC 09.360.
A DIAGRAM OF THE CHRONOLOGICAL REQUIREMENTS OF THIS PLAN IS SHOWN BELOW.**

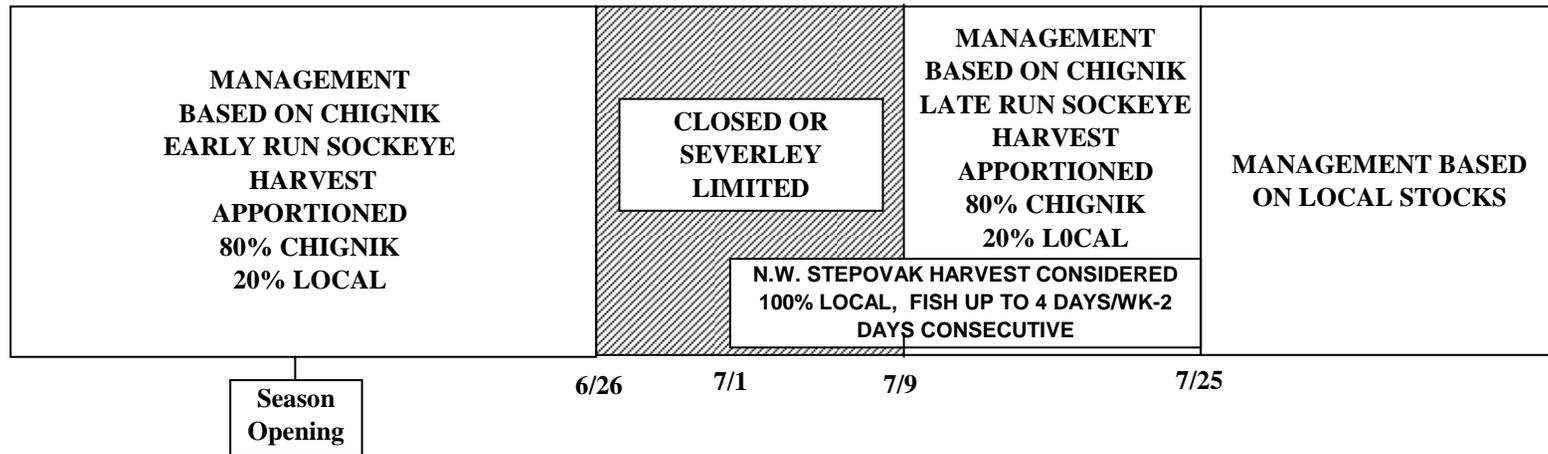


Figure 8.-Overview of the Southeastern District Mainland salmon management plan.

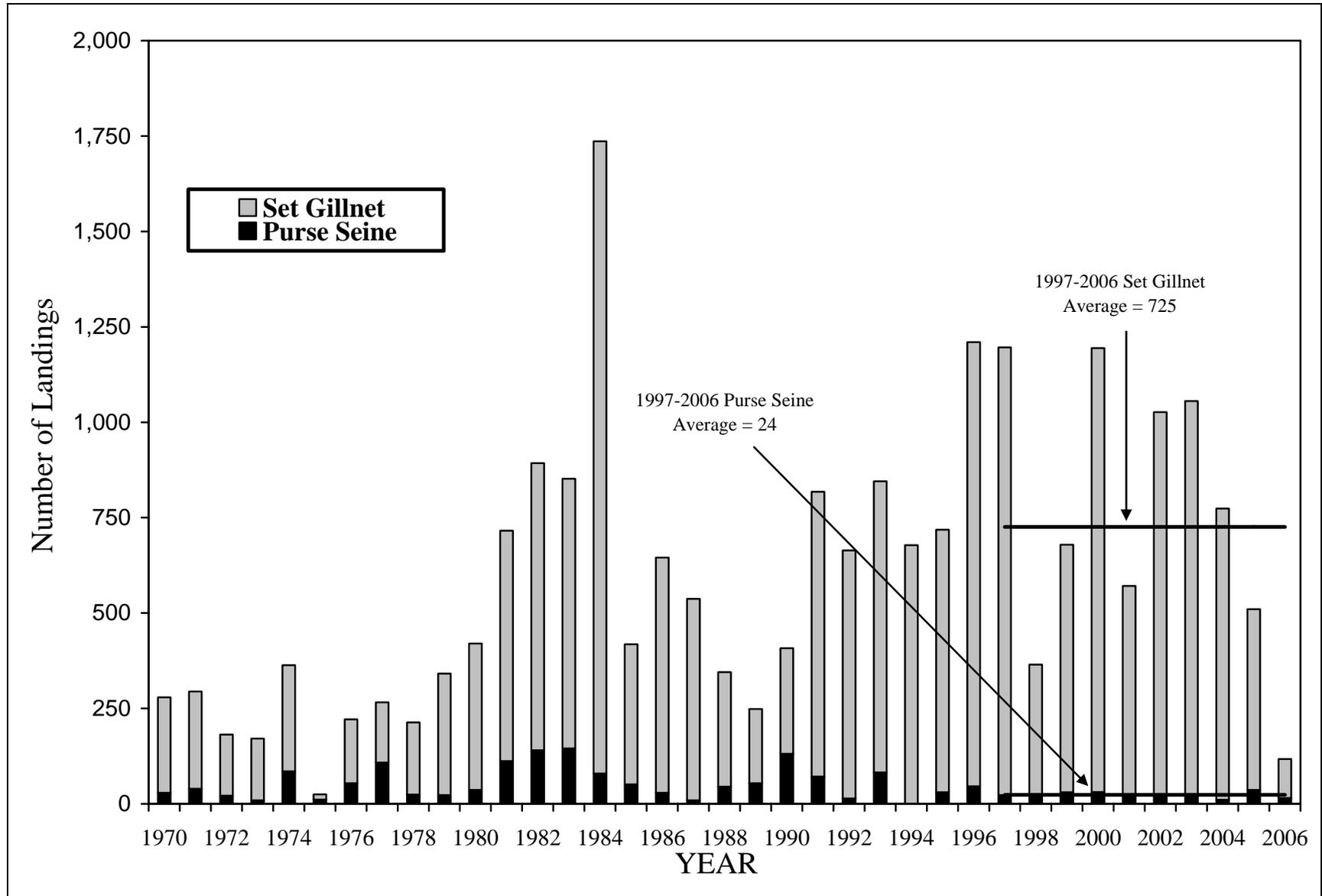


Figure 9.-Southeastern District Mainland landings by gear type, June 1 through July 25, 1970-2006.

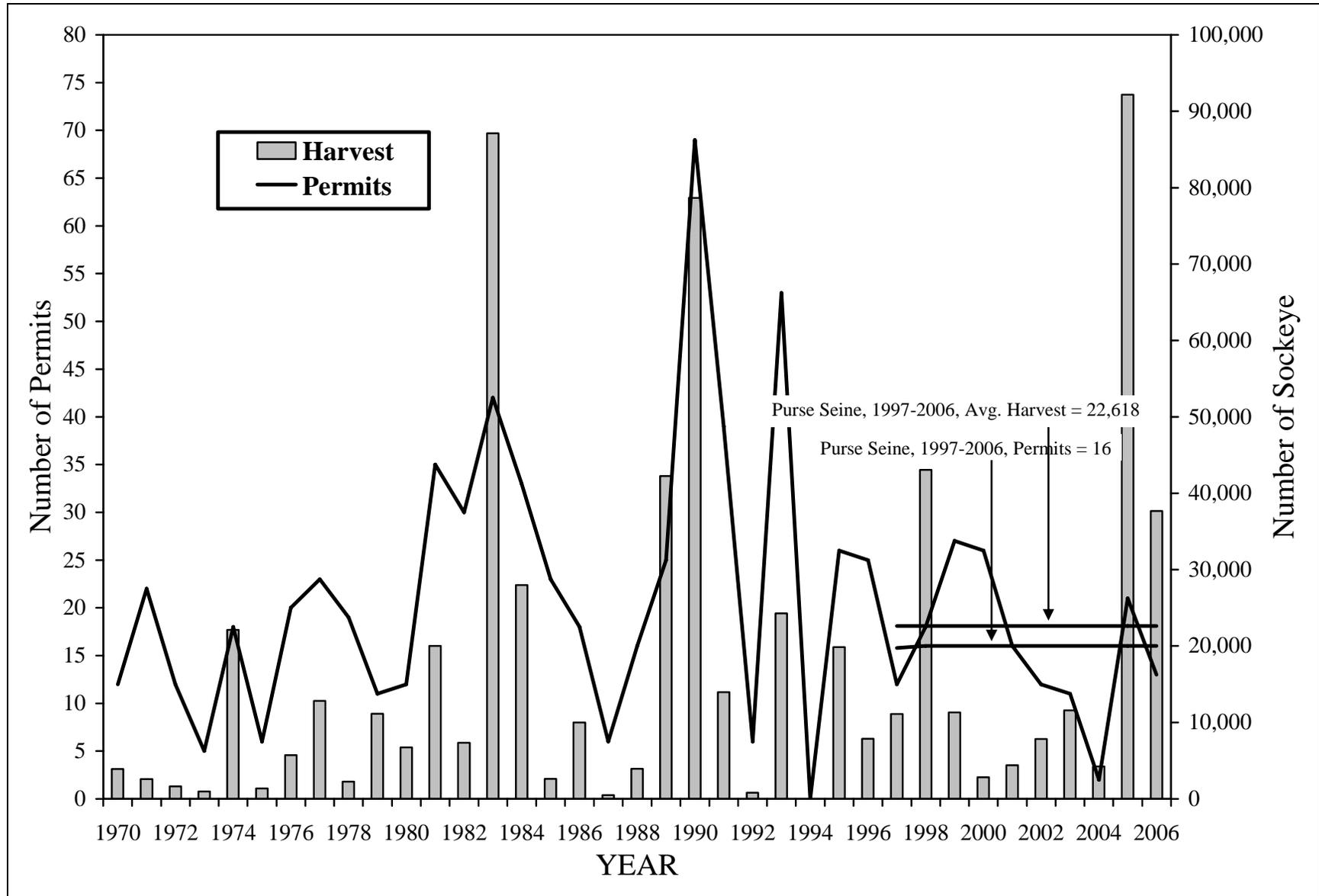


Figure 10.-Purse seine effort and sockeye salmon harvests in the Southeastern District Mainland 1970-2006.

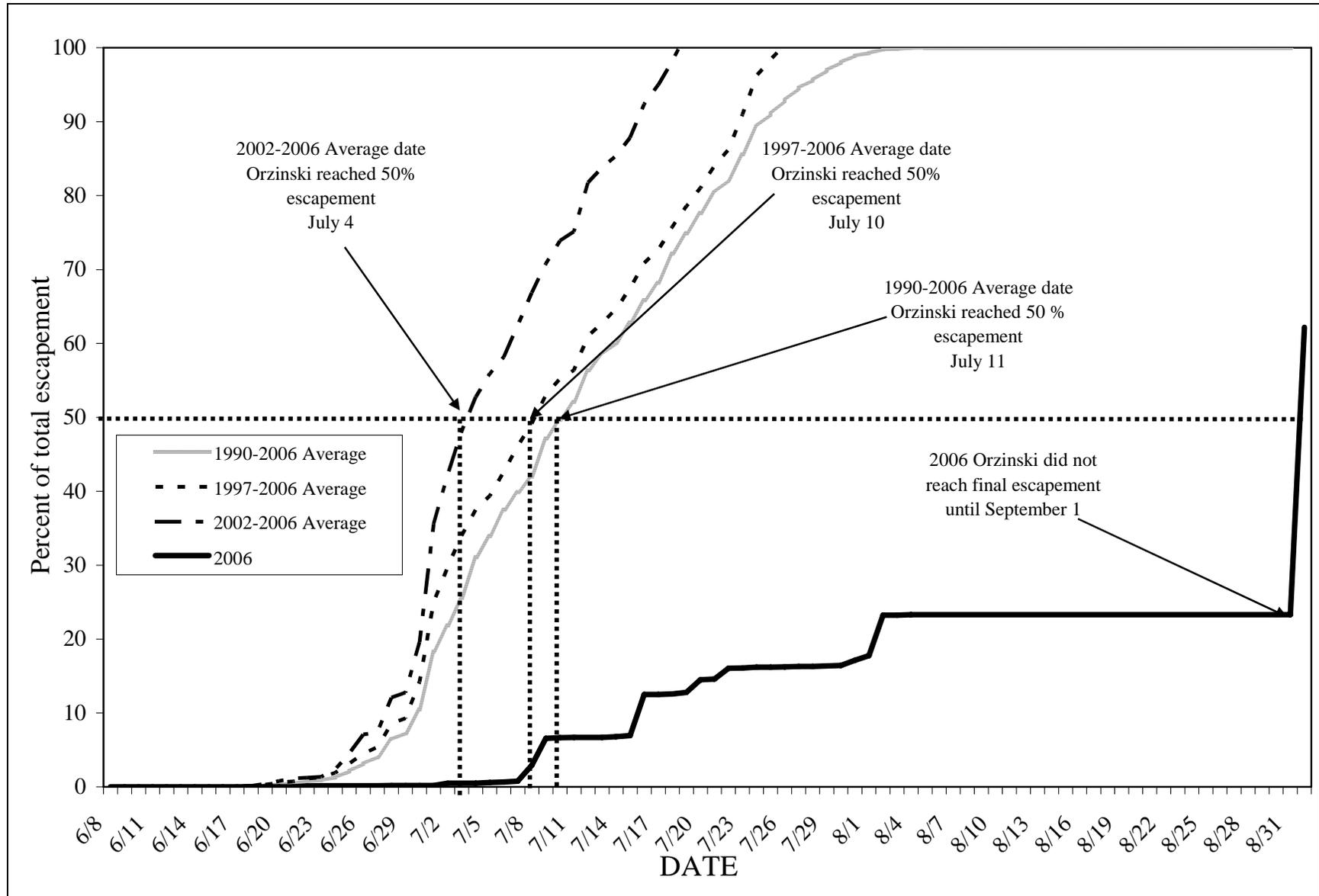


Figure 11.-Orzinski Lake weir average cumulative sockeye salmon escapement timing, 1990-2006.

**APPENDIX A. CHIGNIK MANAGEMENT AREA FORECAST OF
THE 2006 SOCKEYE SALMON RUN**

Appendix A1.-Chignik Management Area forecast of the 2007 sockeye salmon run.

Forecast Area: Chignik
Species: Sockeye Salmon

Preliminary Forecast of the 2007 Run		Forecast Estimate (thousands)	Forecast Range (thousands)
Total Production:			
Early Run (Black Lake)	Total Run Estimate	1,020	381–1,670
	Escapement Goal	350	350–400
	Harvest Estimate ^a	674	
Late Run (Chignik Lake)	Total Run Estimate	901	384–1,420
	Escapement Objective ^b	250	250–300
	Harvest Estimate	651	
Total Chignik System	Total Run Estimate	1,920	765-3,090
	Escapement Objective ^b	600	600–700
	Harvest Estimate ^a	1,320	

^a These figures include harvests of Chignik-bound sockeye salmon from the Southeastern District Mainland and the Cape Igvak fisheries; approximately 1.08 million sockeye salmon are projected to be harvested in the Chignik Management Area.

^b The Chignik Lake late-run escapement goal is 200,000 to 250,000 sockeye salmon, resulting in an escapement goal for the entire run of 550,000 to 650,000. However, managers try to achieve an additional escapement objective of 50,000 sockeye salmon in August and September.

Forecast Methods

The forecasts for the 2007 early and late Chignik sockeye salmon runs were based on available data from 1980 to the present. Simple linear regressions were modeled using sibling and outmigration year relationships. Each regression model was assessed with standard regression diagnostic procedures. Regression models were only used in cases where the slope of the regression was significantly different from zero ($P < 0.25$). The variance of each estimate was calculated from the error structure of the regression. Prediction intervals were estimated at a coverage probability of 80 percent. Median estimators were used to estimate production of age classes where regression relationships were not significant.

The predicted 2007 early-run age-1.3 and -2.3 sockeye salmon returns were estimated based on the abundance of prior ocean-age-two (2-ocean) sockeye salmon (ages-1.2 and -2.2; $P = 1.1 \times 10^{-5}$ and $P = 6.0 \times 10^{-4}$ respectively). Following non-significant regression results, the early-run 1-ocean (ages-1.1 and -2.1), 2-ocean (ages-0.2, -1.2, -2.2, and -3.2), 4-ocean (ages-1.4 and -2.4), and age-0.3 and -3.3 age class components were predicted by calculating the median returns.

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Ocean age class and sibling relationships were analyzed for the late-run forecast. The 2-ocean sockeye salmon were predicted from prior year 1-ocean returns using simple linear regression, ($P = 1.0 \times 10^{-4}$). Age-2.3 sockeye salmon were predicted from the prior year abundance of age 2.2 ($P = 0.15$). The 4-ocean sockeye salmon were predicted from 3-ocean returns using simple linear regression ($P = 8.4 \times 10^{-3}$). The 1-ocean and 3-ocean sockeye salmon (excluding age-2.3 fish) were predicted by calculating the median return.

Estimates of variance were calculated from each regression. The variances associated with individual regression estimates by age class were used to calculate 80 percent prediction intervals for those estimates. Prediction intervals for median estimates were calculated using the 10th and 90th percentiles of the returns. For each run (early and late), the overall 80 percent prediction intervals were calculated as the square root of the sum of the squared 80 percent prediction intervals for each age class forecasted.

The early- and late-run regression and median estimates were summed to estimate the total Chignik watershed sockeye salmon run for 2007. The combined early- and late-run 80 percent prediction interval was calculated by summing the lower prediction bounds and upper prediction bounds of the two runs.

Forecast Discussion

The 2007 sockeye salmon run to the Chignik River is expected to be approximately 1.92 million fish. The early run is expected to be approximately 1.02 million fish. The late run is expected to be approximately 901 thousand fish. The 2007 Chignik sockeye salmon run is expected to be approximately 386 thousand fish less than the recent 10-year average run (2.31 million) and 181 thousand fish more than the 2006 run (1.74 million).

The projected harvest estimate for the early run of 674 thousand fish is based on achievement of the lower end of the early-run escapement goal range of 350 thousand fish. The projected harvest estimate for the late run of 651 thousand fish is based on achievement of the lower end of the late-run management objective range through September 15 (250 thousand sockeye salmon). Harvest estimates for the both runs include Chignik-bound sockeye salmon harvested in the Cape Igvak Section of the Kodiak Management Area and the Southeastern District Mainland of the Alaska Peninsula Management Area.

Available smolt data were analyzed and a significant multiple linear regression relationship was found using the total number of outmigrating smolt and a temperature index to predict the subsequent 3-ocean returns (about 82 percent of the run). This estimate was then expanded proportionally to account for other ocean ages not calculated by the simple regressions. Temperature data were obtained from the King Salmon Airport climate database. The temperature index was constructed using the average temperatures during April through

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November from the corresponding outmigration year. In 2006, returns were predicted using this same approach which underestimated the total run by about 45 percent. The smolt-based forecast of the 2007 Chignik total sockeye salmon run is 2.06 million sockeye salmon, which is slightly more (139 thousand) than that predicted from ocean-age and sibling relationships and median estimates (1.93 million).

The smolt forecast corroborates the sibling and ocean-age-class forecasts. Given this ancillary information, our confidence in this forecast is fair.

Heather Finkle, Finfish Research Biologist, Alaska Peninsula

**APPENDIX B. SOUTHEASTERN DISTRICT MAINLAND SALMON
HARVEST**

Appendix B1.-Southeastern District Mainland salmon harvest by species, all gear combined, June 1-July 10, 1970-2006.

Year	Permits	Landings	Number of Salmon					Total
			Chinook	Sockeye	Coho	Pink	Chum	
1970	17	203	21	79,763	26	1,910	3,305	85,025
1971	15	196	77	49,763	4	1,991	4,874	56,709
1972	10	119	22	15,364	12	164	1,314	16,876
1973	15	93	9	35,833	2	399	1,009	37,252
1974	33	206	36	60,534	36	1,311	1,851	63,768
1975	0	0	0	0	0	0	0	0
1976	33	173	56	53,661	0	617	1,058	55,392
1977	34	123	17	30,113	0	5,782	2,717	38,629
1978	23	156	23	25,449	0	418	2,244	28,134
1979	25	194	64	38,267	107	3,994	1,343	43,775
1980	23	216	51	51,365	3	76	2,413	53,908
1981	30	418	1,177	133,501	177	1,438	7,445	143,738
1982	36	480	197	60,386	65	1,028	11,924	73,600
1983	34	377	298	121,625	514	102	2,899	125,438
1984	55	1,468	661	532,151	582	6,965	18,474	558,833
1985	44	261	146	61,160	1	855	3,601	65,763
1986	42	383	153	140,329	70	1,461	12,231	154,244
1987	53	385	89	216,609	4	105	5,382	222,189
1988	21	58	21	17,924	3	67	972	18,987
1989	39	101	44	11,728	5	301	458	12,536
1990	37	94	128	20,177	95	115	2,946	23,461
1991	58	631	386	251,386	388	744	5,040	257,944
1992	59	367	142	134,978	11	296	4,281	139,708
1993	59	540	491	135,950	294	393	1,218	138,346
1994	55	407	220	177,938	672	6,767	5,343	190,940
1995	55	356	254	72,484	64	282	4,846	77,930
1996	62	728	193	194,535	608	7,819	14,438	217,593
1997	51	392	50	84,206	174	1,440	1,042	86,912
1998	18	81	51	9,777	3	453	243	10,527
1999	61	533	145	169,832	3	53	3,731	173,764
2000	63	654	98	129,462	20	826	4,543	134,949
2001	44	193	64	56,077	281	5,655	15,238	77,315
2002	49	600	370	88,589	138	14,306	5,386	108,789
2003	48	613	193	126,261	627	12,266	3,321	142,668
2004	41	478	320	128,100	707	8,600	2,750	140,477
2005	39	347	53	88,376	6	6,423	2,079	96,937
2006	0	0	0	0	0	0	0	0
Averages ^a								
1997-2006	41	389	134	88,068	196	5,002	3,833	97,234
2002-2006	35	408	187	86,265	296	8,319	2,707	97,774

^a Only set gillnet gear is allowed prior to July 11 since the 1978 season. After 1977, any purse seine deliveries prior to July 11 are assumed to be in error and were assigned to gillnet gear.

Appendix B2.-Southeastern District Mainland salmon harvest by species, purse seine gear, June 1-July 10, 1970-2006.

Year ^a	Permits	Landings	Number of Salmon					Total
			Chinook	Sockeye	Coho	Pink	Chum	
1970	4	10	1	3,357	0	373	350	4,081
1971	7	12	7	1,240	0	1,539	692	3,478
1972	Confidentiality rules prohibit the release of this information.							
1973	Confidentiality rules prohibit the release of this information.							
1974	10	43	11	12,610	17	583	1,191	14,412
1975	0	0	0	0	0	0	0	0
1976	14	24	7	3,276	0	203	216	3,702
1977	12	29	10	8,132	0	4,262	805	13,209
1978-2006	0	0	0	0	0	0	0	0
Average								
1970-1977	8	20	6	4,769	3	1,160	542	6,480

^a Only set gillnet gear is allowed prior to July 11 since the 1978 season. After 1977, any purse seine deliveries prior to July 11 are assumed to be in error and were assigned to gillnet gear.

Appendix B3.-Southeastern District Mainland salmon harvest by species, set gillnet gear, June 1-July 10, 1970-2006.

Year	Permits	Landings	Number of Salmon					Total
			Chinook	Sockeye	Coho	Pink	Chum	
1970	14	191	20	76,251	26	1,536	2,949	80,782
1971	9	184	70	48,523	4	452	4,182	53,231
1972	10	115	22	14,874	12	164	1,295	16,367
1973	14	91	9	35,130	2	390	1,009	36,540
1974	26	163	25	47,924	19	728	660	49,356
1975	0	0	0	0	0	0	0	0
1976	19	149	49	50,385	0	414	842	51,690
1977	22	94	7	21,981	0	1,520	1,912	25,420
1978	23	156	23	25,449	0	418	2,244	28,134
1979	24	191	64	38,200	107	3,988	1,339	43,698
1980	23	216	51	51,365	3	76	2,413	53,908
1981	29	417	1,177	133,371	177	1,438	7,445	143,608
1982	36	480	197	60,386	65	1,028	11,924	73,600
1983	34	377	298	121,625	514	102	2,899	125,438
1984	55	1,468	661	532,151	582	6,965	18,474	558,833
1985	44	261	146	61,160	1	855	3,601	65,763
1986	42	383	153	140,329	70	1,461	12,231	154,244
1987	53	385	89	216,609	4	105	5,382	222,189
1988	21	58	21	17,924	3	67	972	18,987
1989	39	101	44	11,728	5	301	458	12,536
1990	37	94	128	20,177	95	115	2,946	23,461
1991	58	631	386	251,386	388	744	5,040	257,944
1992	59	367	142	134,978	11	296	4,281	139,708
1993	59	540	491	135,950	294	393	1,218	138,346
1994	55	407	220	177,938	672	6,767	5,343	190,940
1995	55	356	254	72,484	64	282	4,846	77,930
1996	62	728	193	194,535	608	7,819	14,438	217,593
1997	51	392	50	84,206	174	1,440	1,042	86,912
1998	18	81	51	9,777	3	453	243	10,527
1999	61	533	145	169,832	3	53	3,731	173,764
2000	63	654	98	129,462	20	826	4,543	134,949
2001	44	193	64	56,077	281	5,655	15,238	77,315
2002	49	600	370	88,589	138	14,306	5,386	108,789
2003	48	613	193	126,261	627	12,266	3,321	142,668
2004	41	478	320	128,100	707	8,600	2,750	140,477
2005	39	347	53	88,376	6	6,423	2,079	96,937
2006	0	0	0	0	0	0	0	0
Averages ^a								
1997-2006	41	389	134	88,068	196	5,002	3,833	97,234
2002-2006	35	408	187	86,265	296	8,319	2,707	97,774

^a Only set gillnet gear is allowed prior to July 11 since the 1978 season. After 1977, any purse seine deliveries prior to July 11 are assumed to be in error and were assigned to gillnet gear.

Appendix B4.-Southeastern District Mainland salmon harvest by species, all gear combined, June 1-July 25, 1970-2006.

Year	Permits	Landings	Number of Salmon					Total
			Chinook	Sockeye	Coho	Pink	Chum	
1970	27	288	32	84,603	183	21,836	16,244	122,898
1971	33	294	94	63,366	92	18,741	18,206	100,499
1972	23	180	34	21,105	85	5,762	9,735	36,721
1973	18	171	17	47,579	231	4,503	5,236	57,566
1974	42	363	50	92,562	216	29,769	7,783	130,380
1975	13	25	0	3,156	63	3,020	770	7,009
1976	41	221	58	59,844	37	20,059	6,759	86,757
1977	51	266	33	48,589	940	43,301	11,454	104,317
1978	42	213	39	31,197	354	33,140	16,104	80,834
1979	42	344	119	90,658	5,857	45,582	7,561	149,777
1980	36	420	79	96,665	1,608	40,779	59,441	198,572
1981	69	718	1,320	202,540	3,058	17,347	172,340	396,605
1982	67	893	401	86,793	1,920	209,898	134,473	433,485
1983	78	852	1,387	302,387	3,222	11,295	101,873	420,164
1984	87	1,736	1,054	595,044	4,414	199,990	141,452	941,954
1985	72	418	177	80,957	909	74,592	87,116	243,751
1986	60	645	219	206,532	770	40,771	51,003	299,295
1987	59	537	130	244,895	197	2,363	21,332	268,917
1988	57	345	214	81,160	2,318	97,534	74,743	255,969
1989	67	248	145	89,224	1,226	210,017	6,570	307,182
1990	115	408	694	166,322	16,809	48,999	43,479	276,303
1991	98	818	614	289,727	1,386	24,788	12,113	328,628
1992	65	664	170	215,444	135	15,939	20,629	252,317
1993	117	845	1,093	210,927	4,207	78,278	9,266	303,771
1994	56	678	242	221,657	1,041	11,158	5,651	239,749
1995	84	718	321	159,381	2,286	52,772	21,809	236,569
1996	89	1,210	325	284,076	3,846	71,856	36,478	396,581
1997	69	1,194	146	304,629	1,380	16,613	6,368	329,136
1998	65	365	307	117,131	2,959	125,030	9,929	255,356
1999	90	679	184	217,026	898	42,905	8,390	269,403
2000	90	1,194	174	202,435	6,968	57,176	27,261	294,014
2001	67	571	177	106,607	1,314	42,220	50,211	200,529
2002	65	1,026	545	153,469	5,390	143,365	18,752	321,521
2003	59	1,055	309	222,651	2,234	129,458	12,272	366,924
2004	44	773	389	210,545	4,536	57,617	5,827	278,914
2005	64	510	97	245,153	6,030	312,207	9,633	573,120
2006	37	117	29	77,513	2,805	77,685	13,259	171,291
Averages								
1997-2006	65	748	236	185,716	3,451	100,428	16,190	306,021
2002-2006	54	696	274	181,866	4,199	144,066	11,949	342,354

Appendix B5.-Southeastern District Mainland salmon harvest by species, purse seine gear, June 1-
July 25, 1970-2006.

Year	Permits	Landings	Number of Salmon					Total
			Chinook	Sockeye	Coho	Pink	Chum	
1970	13	29	10	3,911	27	13,679	3,730	21,357
1971	24	39	20	2,599	36	17,741	9,764	30,160
1972	12	21	6	1,614	4	3,761	4,279	9,664
1973	5	9	7	976	137	2,653	1,298	5,071
1974	18	85	18	22,129	72	21,622	4,108	47,949
1975	6	11	0	1,349	34	2,060	178	3,621
1976	22	54	7	5,724	37	14,912	4,605	25,285
1977	30	108	13	14,646	940	37,510	6,413	59,522
1978	19	24	11	2,267	321	31,355	10,371	44,325
1979	12	23	19	11,159	2,821	34,331	1,676	50,006
1980	12	36	4	6,896	1,011	34,807	30,547	73,265
1981	35	112	117	19,883	2,725	12,984	149,523	185,232
1982	30	140	128	7,351	973	190,694	101,744	300,890
1983	42	145	1,022	87,107	2,192	9,455	87,155	186,931
1984	33	79	346	28,001	2,933	154,448	109,445	295,173
1985	23	51	20	2,610	725	66,517	77,537	147,409
1986	18	29	42	9,987	321	31,231	30,653	72,234
1987	6	9	19	482	95	808	8,388	9,792
1988	16	45	130	3,956	1,587	80,939	63,211	149,823
1989	25	54	58	42,247	1,121	198,917	5,121	247,464
1990	69	131	503	80,954	15,980	47,534	34,415	179,386
1991	39	71	175	13,959	529	18,660	4,380	37,703
1992	6	14	4	806	20	4,810	14,832	20,472
1993	53	82	536	24,271	3,543	63,521	5,850	97,721
1994	0	0	0	0	0	0	0	0
1995	26	30	53	19,866	2,104	39,677	13,625	75,325
1996	25	46	73	7,864	977	19,071	4,619	32,604
1997	12	23	44	11,115	491	4,325	494	16,469
1998	20	25	210	43,062	1,520	91,150	6,516	142,458
1999	27	30	20	11,320	547	34,410	1,618	47,915
2000	26	31	14	2,830	1,356	14,476	2,689	21,365
2001	16	20	64	4,394	168	14,430	6,249	25,305
2002	12	25	69	7,813	4,263	60,850	4,092	77,087
2003	11	20	41	11,582	660	52,928	1,702	66,913
2004	2	10	0	4,229	139	2,415	0	6,783
2005	21	36	39	92,175	5,027	281,352	5,193	383,786
2006	13	15	25	37,664	2,466	69,775	8,558	118,488
Averages								
1997-2006	16	24	53	22,618	1,664	62,611	3,711	90,657
2002-2006	12	21	35	30,693	2,511	93,464	3,909	130,611

Appendix B6.-Southeastern District Mainland salmon harvest by species, set gillnet gear, June 1-July 25, 1970-2006.

Year	Permits	Landings	Number of Salmon					Total
			Chinook	Sockeye	Coho	Pink	Chum	
1970	18	258	22	80,692	156	6,112	12,447	99,429
1971	15	255	74	60,767	56	1,000	8,442	70,339
1972	15	160	28	19,491	81	2,001	5,456	27,057
1973	16	162	10	46,603	94	1,850	3,938	52,495
1974	32	278	32	70,433	144	8,147	3,675	82,431
1975	7	14	0	1,807	29	960	592	3,388
1976	19	167	51	54,120	0	5,147	2,154	61,472
1977	22	158	20	33,943	0	5,791	5,041	44,795
1978	23	189	28	29,070	33	1,785	5,733	36,649
1979	29	318	100	79,432	3,036	11,245	5,881	99,694
1980	24	384	75	89,769	597	5,972	28,894	125,307
1981	32	604	1,203	182,527	333	4,339	22,121	210,523
1982	37	753	273	79,442	947	19,204	32,729	132,595
1983	36	707	365	215,280	1,030	1,840	14,718	233,233
1984	54	1,657	708	567,043	1,481	45,542	32,007	646,781
1985	49	367	157	78,347	184	8,075	9,579	96,342
1986	42	616	177	196,545	449	9,540	20,350	227,061
1987	53	528	111	244,413	102	1,555	12,944	259,125
1988	41	300	84	77,204	731	16,595	11,532	106,146
1989	42	194	87	46,977	105	11,100	1,449	59,718
1990	46	277	191	85,368	829	1,465	9,064	96,917
1991	59	747	439	275,768	857	6,128	7,733	290,925
1992	59	650	166	214,638	115	11,129	5,797	231,845
1993	64	763	557	186,656	664	14,757	3,416	206,050
1994	56	678	242	221,657	1,041	11,158	5,651	239,749
1995	58	688	268	139,515	182	13,097	8,184	161,246
1996	64	1,164	252	276,212	2,869	52,785	31,859	363,977
1997	57	1,171	102	293,514	889	12,288	5,874	312,667
1998	45	340	97	74,069	1,439	33,880	3,413	112,898
1999	63	649	164	205,706	351	8,495	6,772	221,488
2000	64	1,163	160	199,605	5,612	42,700	24,572	272,649
2001	51	551	113	102,213	1,146	27,790	43,962	175,224
2002	53	1,001	476	145,656	1,127	82,515	14,660	244,434
2003	48	1,035	268	211,069	1,574	76,530	10,570	300,011
2004	42	763	389	206,316	4,397	55,202	5,827	272,131
2005	43	474	58	152,978	1,003	30,855	4,440	189,334
2006	24	102	4	39,849	339	7,910	4,701	52,803
Averages								
1997-2006	49	725	183	163,098	1,788	37,817	12,479	215,364
2002-2006	42	675	239	151,174	1,688	50,602	8,040	211,743

Appendix B7.-Southeastern District Mainland daily salmon harvest by species, set gillnet gear, June 1-October 31, 2006.

Date	Permits	Landings	Chinook		Sockeye		Coho		Pink		Chum	
			Number	Pounds	Number	Pounds	Number	Pounds	Number	Pounds	Number	Pounds
20-Jul	22	47	3	39	15,857	108,483	80	574	2,817	9,316	1,661	12,536
21-Jul	21	55	1	22	23,992	164,078	259	1,655	5,093	16,711	3,040	23,006
26-Jul	35	70	3	42	14,673	98,500	74	479	8,313	32,544	2,748	20,740
27-Jul	24	59	3	94	12,594	80,847	148	914	10,204	37,523	2,437	17,395
28-Jul	18	24	2	25	5,989	37,538	21	131	4,347	16,572	1,227	8,671
3-Aug	Confidentiality rules prohibit the release of this information.											
4-Aug	Confidentiality rules prohibit the release of this information.											
5-Aug	23	54	4	101	12,747	85,858	701	4,864	9,843	36,228	2,741	20,861
6-Aug	24	58	7	95	13,953	89,450	1,345	8,312	11,917	44,138	3,060	22,237
8-Aug	21	42	9	123	7,847	52,901	544	3,756	11,922	40,425	2,248	16,472
9-Aug	24	48	8	95	9,604	63,213	738	4,556	14,035	49,953	2,559	18,847
10-Aug	21	40	2	32	7,308	45,723	560	3,533	11,578	38,611	2,251	16,065
11-Aug	19	35	4	57	6,399	42,271	812	5,538	10,175	32,899	2,056	14,638
12-Aug	19	29	0	0	4,577	29,432	1,010	6,742	11,699	35,581	1,803	12,688
13-Aug	14	21	1	7	3,845	24,682	1,171	7,845	11,195	33,645	1,394	9,822
14-Aug	8	15	0	0	3,742	25,384	543	3,662	3,768	14,025	962	7,316
15-Aug	11	22	4	86	4,739	31,805	609	4,038	5,791	19,714	1,460	10,661
16-Aug	12	28	3	39	4,075	27,928	804	5,439	4,524	15,644	1,117	8,201
17-Aug	15	24	1	10	4,382	28,840	1,182	8,021	8,577	29,597	1,314	9,657
18-Aug	13	19	0	0	4,475	29,468	1,175	8,169	5,608	19,773	1,138	8,315
19-Aug	10	15	0	0	3,619	23,980	945	6,432	3,973	13,824	881	6,513
20-Aug	8	8	0	0	2,987	19,581	890	6,081	2,569	8,005	539	3,746
21-Aug	9	9	1	13	3,603	23,409	920	6,057	2,770	8,623	690	4,864
22-Aug	9	10	2	35	3,636	23,061	482	3,220	2,473	7,436	687	4,866
23-Aug	9	12	1	29	4,364	29,628	1,278	8,605	2,683	8,631	952	6,813
1-Sep	7	7	1	20	1,705	11,963	584	4,259	59	184	88	623
2-Sep	12	19	0	0	5,943	39,468	1,398	10,178	134	431	194	1,290
3-Sep	14	20	0	0	6,657	44,990	2,078	15,835	138	494	177	1,256
4-Sep	14	20	0	0	5,815	38,633	969	7,190	129	394	153	1,021
5-Sep	13	22	0	0	3,581	23,743	914	6,645	11	37	64	457
6-Sep	10	14	3	50	2,097	13,875	575	4,149	19	63	60	428

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Date	Permits	Landings	Chinook		Sockeye		Coho		Pink		Chum	
			Number	Pounds	Number	Pounds	Number	Pounds	Number	Pounds	Number	Pounds
7-Sep	Confidentiality rules prohibit the release of this information.											
11-Sep	13	16	6	106	1,568	10,230	619	4,378	0	0	34	238
12-Sep	13	23	0	0	1,998	13,048	754	5,420	0	0	20	126
13-Sep	Confidentiality rules prohibit the release of this information.											
20-Sep	Confidentiality rules prohibit the release of this information.											
21-Sep	Confidentiality rules prohibit the release of this information.											
22-Sep	Confidentiality rules prohibit the release of this information.											
26-Sep	Confidentiality rules prohibit the release of this information.											
Total	42	902	71	1,154	212,280	1,406,846	24,503	169,099	167,541	575,368	40,157	293,383
Average weight				16.3		6.6		6.9		3.4		7.3

Appendix B8.-Southeastern District Mainland salmon harvest by species, purse seine gear, June 1-October 31, 2006.

Date	Chinook		Sockeye		Coho		Pink		Chum			
	Permits	Landings	Number	Pounds	Number	Pounds	Number	Pounds	Number	Pounds		
20-Jul	4	4	7	212	12,318	68,132	1,166	5,977	29,684	86,810	2,892	22,819
21-Jul	11	11	18	293	25,346	162,935	1,300	7,292	40,091	142,536	5,666	46,560
26-Jul	Confidentiality rules prohibit the release of this information.											
27-Jul	4	4	1	11	2,597	13,838	434	2,195	14,506	52,314	2,167	18,398
28-Jul	Confidentiality rules prohibit the release of this information.											
5-Aug	Confidentiality rules prohibit the release of this information.											
6-Aug	Confidentiality rules prohibit the release of this information.											
8-Aug	Confidentiality rules prohibit the release of this information.											
9-Aug	Confidentiality rules prohibit the release of this information.											
10-Aug	4	6	2	60	1,420	9,030	1,183	7,644	32,365	110,603	2,403	18,281
11-Aug	Confidentiality rules prohibit the release of this information.											
12-Aug	4	4	4	102	3,018	19,217	1,331	9,256	23,149	88,816	449	3,472
13-Aug	Confidentiality rules prohibit the release of this information.											
14-Aug	3	3	6	190	1,859	11,712	928	6,173	28,575	97,744	604	4,732
15-Aug	Confidentiality rules prohibit the release of this information.											
17-Aug	Confidentiality rules prohibit the release of this information.											
18-Aug	Confidentiality rules prohibit the release of this information.											
19-Aug	Confidentiality rules prohibit the release of this information.											
21-Aug	Confidentiality rules prohibit the release of this information.											
22-Aug	Confidentiality rules prohibit the release of this information.											
Totals	20	60	217	3,956	60,180	368,859	9,581	61,161	299,978	1,064,919	24,245	194,069
Average weight				18.2		6.1		6.4		3.5		8.0

Appendix B9.-Southeastern District Mainland fishery, annual CFEC permits and number of landings by gear type, June 1-July 25, 1970-2006.

Year	Purse Seine		Set Gillnet		Total	
	Permits	Landings	Permits	Landings	Permits	Landings
1970	13	29	18	258	31	287
1971	24	39	15	255	39	294
1972	12	21	15	160	27	181
1973	5	9	16	162	21	171
1974	18	85	32	278	50	363
1975	6	11	7	14	13	25
1976	22	54	19	167	41	221
1977	30	108	22	158	52	266
1978	19	24	23	189	42	213
1979	12	23	29	318	41	341
1980	12	36	24	384	36	420
1981	35	112	32	604	67	716
1982	30	140	37	753	67	893
1983	42	145	36	707	78	852
1984	33	79	54	1,657	87	1,736
1985	23	51	49	367	72	418
1986	18	29	42	616	60	645
1987	6	9	53	528	59	537
1988	16	45	41	300	57	345
1989	25	54	42	194	67	248
1990	69	131	46	277	115	408
1991	39	71	59	747	98	818
1992	6	14	59	650	65	664
1993	53	82	64	763	117	845
1994	0	0	56	678	56	678
1995	26	30	58	688	84	718
1996	25	46	64	1,164	89	1,210
1997	12	23	57	1,171	69	1,194
1998	20	25	45	340	65	365
1999	27	30	63	649	90	679
2000	26	31	64	1,163	90	1,194
2001	16	20	51	551	67	571
2002	12	25	53	1,001	65	1,026
2003	11	20	48	1,035	59	1,055
2004	2	10	42	764	44	774
2005	21	36	43	474	64	510
2006	13	15	24	102	37	117
Averages						
1987-2006	21	41	53	727	77	768
1997-2006	16	24	49	725	65	749
2002-2006	12	21	42	675	54	696

Appendix B10.-Orzinski Lake sockeye salmon daily escapement by year, 1990-2006.

Date	Year																	Average	Average
	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	1997-2006	2002-2006
8-Jun	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
9-Jun	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10-Jun	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11-Jun	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	1
12-Jun	0	0	0	0	0	0	3	0	0	0	0	0	4	2	13	0	0	2	4
13-Jun	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
14-Jun	0	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0
15-Jun	0	0	0	0	0	0	8	0	0	0	1	18	0	0	18	0	0	4	4
16-Jun	0	0	0	0	0	3	0	12	0	2	4	18	0	2	14	0	0	5	3
17-Jun	0	0	0	0	0	0	0	17	0	0	44	22	0	0	1	5	0	9	1
18-Jun	0	0	0	1	8	3	0	0	11	3	44	53	2	27	86	15	0	24	26
19-Jun	0	1	0	0	4	11	0	8	0	2	22	22	1	0	373	0	0	43	75
20-Jun	0	1	0	0	0	28	2	0	14	5	40	66	225	359	22	0	0	73	121
21-Jun	0	2	0	0	18	28	3	20	8	10	30	5	286	41	172	1	3	58	101
22-Jun	0	1	0	0	0	111	0	17	0	10	3	892	49	4	34	0	34	104	24
23-Jun	0	14	0	366	34	63	20	128	14	5	2	202	95	9	96	0	4	56	41
24-Jun	0	0	0	5	11	17	0	8	43	9	229	0	1,283	10	145	2	1	173	288
25-Jun	0	2	205	35	247	5	131	0	0	36	445	0	1,797	79	1,202	14	0	357	618
26-Jun	0	16	1	474	31	9	593	8	105	34	5	0	790	300	2,649	1	0	389	748
27-Jun	0	348	295	474	146	32	581	16	820	86	69	1,190	0	7	392	0	0	258	80
28-Jun	0	3	1,255	184	10	595	218	877	235	21	1,150	225	2,765	10	4,001	0	8	929	1,357
29-Jun	0	1,839	9	216	7	65	178	70	22	43	801	0	84	0	919	5	4	195	202
30-Jun	1	638	56	0	0	32	628	86	177	1	10	4,175	1,823	2	8,014	43	0	1,433	1,976
1-Jul	3	1,067	241	2,909	269	24	2,985	33	586	276	6,488	691	2,711	13,451	6,942	1	1	3,118	4,621
2-Jul	40	367	685	1,380	26	30	1,020	59	2,381	4	963	722	329	8,131	1,071	70	85	1,382	1,937
3-Jul	0	1,080	0	1,394	53	1	3,249	1,738	264	65	191	1,612	1,469	5,778	1,189	46	3	1,236	1,697
4-Jul	0	9,852	2,152	686	17	1,214	3,165	3,050	58	194	161	46	618	3,002	2,112	987	2	1,023	1,344
5-Jul	286	2,828	5,285	0	7	110	282	10	79	252	402	0	2,136	535	1,167	674	30	529	908
6-Jul	240	1,845	475	0	108	4,789	425	5,208	62	34	475	409	1,265	1,203	808	7	18	949	660
7-Jul	59	948	201	95	217	128	205	2,504	191	112	592	461	82	4,176	1,860	2	36	1,002	1,231
8-Jul	10	380	489	0	331	32	256	246	0	23	660	1,384	419	2,057	3,033	260	619	870	1,278
9-Jul	0	1,275	274	438	6,203	5,282	617	378	1,135	1,289	384	2,463	703	1,172	2,745	4	1,054	1,133	1,136
10-Jul	123	1,359	227	0	2,482	1,436	637	305	1,092	89	95	221	1,339	1,867	1,281	1	21	631	902
11-Jul	208	1,511	162	503	3,225	1,692	1,167	57	7	1,110	118	252	0	932	796	60	9	334	359
12-Jul	860	2,811	476	5	330	2,942	194	99	2,402	846	20	434	3,614	3,058	993	1,946	0	1,341	1,922

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Date	Year																	Average	Average
	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	1997-2006	2002-2006
13-Jul	0	2,075	393	1,834	494	513	215	135	435	1,289	154	105	1,379	448	1,102	1	7	506	587
14-Jul	3	461	486	286	903	101	333	36	1,246	840	105	892	633	993	652	0	23	542	460
15-Jul	50	786	821	198	2,415	612	131	1,208	457	556	698	1,749	1,110	889	1,438	79	42	823	712
16-Jul	553	458	113	125	2,795	644	343	964	676	334	492	816	791	1,067	1,531	1,534	1,617	982	1,308
17-Jul	142	1,185	330	276	2,333	1,208	860	348	97	367	6	595	553	813	2,148	273	0	520	757
18-Jul	4,573	1,128	906	2,358	1,028	4	720	1,449	5	814	698	1,264	927	1,897	1,473	350	20	890	933
19-Jul	65	938	312	1,224	1,911	265	689	1,251	946	29	210	332	1,069	1,289	1,367	1,575	58	813	1,072
20-Jul	999		648	833	1,679	225	1,837	1,052	482	175	34	105	396	519	875	3,046	497	718	1,067
21-Jul	888		905	1,027	1,498	193	511	1,741	237	123	3	114	1,733	2,662	616	1,429	25	868	1,293
22-Jul	228		441	316	552	353	95	1,275	759	166	301	316	84	344	677	2,016	421	636	708
23-Jul	282		562	98	1,312	839	77	332	902	247	642	291	271	925	1,169	8,974	10	1,376	2,270
24-Jul	749		464	806	1,051	184	312	9	1,167	571	148	76	826	295	2,832	9,200	42	1,517	2,639
25-Jul	58		326	1,231	0	84	305	44	719	446	87	510	835	853	2,037	780	0	631	901
26-Jul	29		321	0	1,846		24	140	544	443	59	526	472	475	1,674	1,456	10	580	817
27-Jul	8		221	53	426		211		500	656	1,001	1,716	254	493	786	1,716	10	792	652
28-Jul	150		147	271	513		513		670	102	46	932	330	239	947	453	0	413	394
29-Jul	399		358	733					1,232	484	45	224	312	727	1,332	731	18	567	624
30-Jul	486		300	143					392	376	83	313	1,370	583	692	347	21	464	603
31-Jul	669			271					22		299	522	45	302	899	1,317	204	451	553
1-Aug	0			593							684	113		176			185	290	181
2-Aug	47			446							122						1,582	852	1,582
3-Aug	334										87						0	44	0
4-Aug	230																23	23	23
5-Aug	526																0	0	0
6-Aug	169																		
Total weir escapement	13,467	35,219	20,542	22,287	34,540	23,907	23,744	24,938	21,194	12,579	19,452	27,095	37,279	62,207	66,396	39,421	6,747	31,731	42,410
Post weir estimate	1,533	4,781	4,458	2,430	3,460	6,093	6,256	10,062	3,806	2,421	2,048	4,105	5,570	8,483	9,054	5,376	11,253	6,218	7,947
Total estimated escapement	15,000	40,000	25,000	24,717	38,000	30,000	30,000	35,000	25,000	15,000	21,500	31,200	42,849	70,690	75,450	44,797	18,000	37,949	50,357

**APPENDIX C. SOUTHEASTERN DISTRICT MAINLAND FISHERY
REGULATORY HISTORY**

Appendix C1.-Southeastern District Mainland fishery regulatory history, 1970-2006.

Year	Changes to the Management Plan
Pre-1974	Set weekly fishing periods, usually 5 days per week.
1974-77	Day for day fishing with Chignik.
1978	3 days per week, seine gear prohibited before July 10.
1979-84	5 days per week, 60,000 catch ceiling (until Chignik catches 1 million) After 7/10 entire SEDM managed on local stocks.
1985-91	Ensures minimum harvest in Chignik of 600,000 sockeye salmon, restricts fishing in SEDM during overlap period (6/26-7/9), allows 6% (6.2%-1985-87) allocation of total Chignik sockeye salmon harvest through 7/25, permits openings in Stepovak Flats and Northwest Stepovak Sections based on local runs.
1992-95	Area managed on local sockeye salmon runs reduced to include only Orzinski Bay (Stepovak Flats Section not effected), 7% allocation of Chignik bound sockeye salmon established prior to the 1992 fishing season.
1996-present	<p>Area managed on local sockeye runs increased to include the Northwest Stepovak Section beginning July 1, 6% Chignik bound sockeye salmon allocation re-established prior to the 1996 season. Beginning July 1, only Orzinski Bay was managed entirely on its local sockeye salmon run. However, all sockeye salmon caught in the Northwest Stepovak Section beginning July 1 are considered 100% local fish and are not counted toward the 6% allocation. The remainder of the SEDM sockeye salmon harvest was allocated as 80% Chignik bound fish. Changes in 1998 included a minimum Chignik Management Area harvest of 300,000 sockeye salmon by July 8 and 600,000 by July 25. The maximum allowable fishing time in the Northwest Stepovak Section (excluding Orzinski Bay) during July 1-25 is four days withing a seven day period . with no more than two consecutive fishing days.</p> <p>In addition, in 2005 the Board passed an emergency regulation stipulating that from July 1 through July 10, if the department determines that the Orzinski Lake sockeye salmon escapement objectives have been exceeded in addition to set gillnet gear, the commissioner may open, by emergency order, the waters of Orzinski Bay to fishing with purse seine and hand purse seine gear.</p>