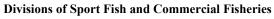
Summary of Bristol Bay Sockeye Salmon Harvests by Gear Type, 2007–2009

by

Paul Salomone

November 2009

Alaska Department of Fish and Game





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.

Weights and measures (metric)		General		Measures (fisheries)	
centimeter	cm	Alaska Administrative		fork length	FL
deciliter	dL	Code	AAC	mideye to fork	MEF
gram	g	all commonly accepted		mideye to tail fork	METF
hectare	ha	abbreviations	e.g., Mr., Mrs.,	standard length	SL
kilogram	kg		AM, PM, etc.	total length	TL
kilometer	km	all commonly accepted			
liter	L	professional titles	e.g., Dr., Ph.D.,	Mathematics, statistics	
meter	m		R.N., etc.	all standard mathematical	
milliliter	mL	at	@	signs, symbols and	
millimeter	mm	compass directions:		abbreviations	
		east	E	alternate hypothesis	H_A
Weights and measures (English)		north	N	base of natural logarithm	e
cubic feet per second	ft ³ /s	south	S	catch per unit effort	CPUE
foot	ft	west	W	coefficient of variation	CV
gallon	gal	copyright	©	common test statistics	$(F, t, \chi^2, etc.)$
inch	in	corporate suffixes:		confidence interval	CI
mile	mi	Company	Co.	correlation coefficient	
nautical mile	nmi	Corporation	Corp.	(multiple)	R
ounce	OZ	Incorporated	Inc.	correlation coefficient	
pound	lb	Limited	Ltd.	(simple)	r
quart	qt	District of Columbia	D.C.	covariance	cov
yard	yd	et alii (and others)	et al.	degree (angular)	0
yara	yu	et cetera (and so forth)	etc.	degrees of freedom	df
Time and temperature		exempli gratia		expected value	E
day	d	(for example)	e.g.	greater than	>
degrees Celsius	°C	Federal Information		greater than or equal to	≥
degrees Fahrenheit	°F	Code	FIC	harvest per unit effort	- HPUE
degrees kelvin	K	id est (that is)	i.e.	less than	<
hour	h	latitude or longitude	lat. or long.	less than or equal to	<u>≤</u>
minute	min	monetary symbols		logarithm (natural)	_ ln
second	S	(U.S.)	\$, ¢	logarithm (base 10)	log
Second	5	months (tables and	*, F	logarithm (specify base)	\log_2 etc.
Physics and chemistry		figures): first three		minute (angular)	1082, 000.
all atomic symbols		letters	Jan,,Dec	not significant	NS
alternating current	AC	registered trademark	®	null hypothesis	H _O
ampere	A	trademark	ТМ	percent	%
calorie	cal	United States		probability	P
direct current	DC	(adjective)	U.S.	probability of a type I error	•
hertz	Hz	United States of		(rejection of the null	
horsepower	hp	America (noun)	USA	hypothesis when true)	α
hydrogen ion activity	рH	U.S.C.	United States	probability of a type II error	CC .
(negative log of)	P		Code	(acceptance of the null	
parts per million	ppm	U.S. state	use two-letter	hypothesis when false)	β
parts per thousand	ppti,		abbreviations	second (angular)	"
parts per mousund	ррі, ‰		(e.g., AK, WA)	standard deviation	SD
volts	V			standard deviation	SE
watts	W			variance	SE
11 acc	**			population	Var
				sample	var
				sample	vai

SPECIAL PUBLICATION NO. 09-17

SUMMARY OF BRISTOL BAY SOCKEYE SALMON HARVESTS BY GEAR TYPE, 2007–2009

by

Paul Salomone Division of Commercial Fisheries, Anchorage

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

November 2009

The Special Publication series was established by the Division of Sport Fish in 1991 for the publication of techniques and procedures manuals, informational pamphlets, special subject reports to decision-making bodies, symposia and workshop proceedings, application software documentation, in-house lectures, and became a joint divisional series in 2004 with the Division of Commercial Fisheries. Special Publications are intended for fishery and other technical professionals. Special Publications are available through the Alaska State Library, Alaska Resources Library and Information Services (ARLIS) and on the Internet: http://www.sf.adfg.state.ak.us/statewide/divreports/html/intersearch.cfm. This publication has undergone editorial and peer review.

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This document should be cited as:

Salomone, P. 2009. Summary of Bristol Bay sockeye salmon harvests by gear type, 2007–2009. Alaska Department of Fish and Game, Special Publication No. 09-17, Anchorage.

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ABSTRACT

The purpose of this report is to provide the Alaska Board of Fisheries (board) with background information regarding the fishing effort and sockeye salmon (*Oncorhynchus nerka*) harvest by gear type for the Bristol Bay Area. Data in this report were obtained from previous reports to the board in 2003 (Weiland 2003), 2006 (Salomone 2006), from the Commercial Fisheries Entry Commission, and from the commercial fisheries fish ticket database. Information in this report is considered final for all years through 2008. The 2009 data are preliminary. For a more complete historical perspective, data from 1965 to 2009 are included.

Key words: Alaska Board of Fisheries, board, BOF, effort, harvest, gear type, Commercial Fisheries Entry Commission, CFEC, sockeye salmon, *Oncorhynchus nerka*.

INTRODUCTION

By regulation (5AAC 06.330), drift and set gillnets are the only two types of legal fishing gear in the Bristol Bay commercial salmon fishery. Drift gillnet fishermen are limited to 150 fathoms of gear unless two permit holders are on board a vessel and it is marked accordingly, in which case, 200 fathoms of gear may be used. Set gillnet fishermen are limited to 50 fathoms of gear. Set gillnets fished in Naknek-Kvichak, Egegik, Ugashik, and Togiak districts must be at least 300 feet apart, while in Nushagak District set gillnets must be at least 450 feet apart. There is no minimum distance required between drift gillnets, but they must be at least 300 feet from the side of a set gillnet or at least 100 feet from the offshore end of a set gillnet out to the allowable offshore distance for set gillnets (5AAC 06.335 and 5AAC 06.331 (m) and (n)). In the Ugashik River Special Harvest Area (URSHA), Wood River Special Harvest Area (WRSHA), and Naknek River Special Harvest Area (NRSHA) reduced limits of gear and reduced distances between gear apply (5AAC 06.357 (e), 5AAC 06.358 (1) and (2), and 5AAC 06.360 (d) and (e)).

Figure 1 illustrates the five fishing districts of Bristol Bay. The mobility of the drift gillnet fleet enables it to fish more than one district and many drift fishermen will land fish in more than one district in a season. Most set gillnet fishermen fish one district in a season. Set gillnet fishermen are much less mobile and are limited by availability of fishing sites, existing tideland leases, and the base of operation that is necessary to conduct set gillnet fishing activities, mainly fish delivery logistics. However, both gear groups have evolved to take full advantage of available fishing opportunities. Both gear groups are currently effective in harvesting substantial numbers of salmon in relatively short periods of time and they compete intensely for these fish.

For the purposes of this report, total annual effort in a district is defined as the total number of permits that made at least one sockeye salmon (*Oncorhynchus nerka*) delivery in that district for the season. The average sockeye catches were calculated using total effort for each district.

In 1997, the Alaska Board of Fisheries (board) allocated sockeye salmon harvests in Naknek/Kvichak, Egegik, Ugashik, and Nushagak districts between set and drift gillnet gear. The allocation period is from June 1 to July 17 in all districts except Togiak, which has no allocation between gear groups. Some data in this report, as footnoted, are calculated using only that time frame.

The Bristol Bay commercial salmon fishery became a "limited entry" fishery in 1975 and due to court adjudication, the number of permits has fluctuated since then (Table 1). According to the Commercial Fisheries Entry Commission, the number of Bristol Bay permit holders that could have received licenses to fish during the 2009 season totaled 2,845 permits, consisting of 1,863 drift gillnet permits and 982 set gillnet permits. Of these active permits, 1,793 drift gillnet and

940 set gillnet permits were renewed, and of these renewed permits, preliminary information shows 1,451 drift gillnet and 821 set gillnet permits recorded landings (Tables 1 and 14).

EFFORT

Fishing effort by district from 1975 to 2009 is listed in Table 1. Effort has been greatest in districts with the largest sockeye harvest predictions. In all districts, sockeye harvest predictions increased from 2007–2009. The largest annual drift gillnet effort recorded for a single district was 1,387 permit holders in Naknek-Kvichak District in 1990. Naknek-Kvichak District drift gillnet effort has exceeded 1,000 permit holders in 14 of the 35 years from 1975 to 2009, but has averaged 731 from 2007–2009. Egegik District has exceeded 1,000 drift permits three times since 1975; the other three districts have yet to reach that level of effort. The largest set gillnet effort has also occurred in Naknek/Kvichak District with a peak level of 441 permit holders in 1990. Effort levels within districts tend to fluctuate with run size. Until 1999, drift effort in Naknek-Kvichak District increased on pre-peak and peak years. Set gillnet effort has remained relatively stable in most districts. In general, effort was at a low point for both gear groups during years of poor sockeye salmon abundance from 2001–2004, but has rebounded since then as runs have improved.

SOCKEYE SALMON HARVEST

The 2007 to 2009 Bristol Bay percentages of sockeye salmon harvest by gear type are listed in Table 2. Over the last 20 years, the drift gillnet gear group has averaged 83% of the total harvest and the set gillnet gear group has averaged 17%. The average set gillnet harvest percent from 2007 to 2009 is approximately 18%. District allocation goals are as follows: 1) Naknek-Kvichak, 84% drift gillnet, and 16% set gillnet which is split between Kvichak and Naknek set gillnetters, 8% each; 2) Nushagak, 74% drift gillnet, and 26% set gillnet split between Igushik and Nushagak set gillnetters, 6% and 20%, respectively; the Wood River Special Harvest Area (WRSHA) also has a 74% drift and 26% set gillnet split; 3) Egegik, 86% drift gillnet, and 14% set gillnet; and 4) Ugashik, 90% drift gillnet and 10% set gillnet. Since 1998, managers in Naknek-Kvichak, Nushagak, Egegik, and Ugashik districts have attempted to achieve the allocations by adjusting fishing times for the two gear groups. In some cases, this has meant separate fishing periods for each gear group.

Over the last 5 years, sockeye salmon harvests have generally been within 4% of the allocations (Tables 3–6 and Tables 11–13) with the exception of Naknek-Kvichak District. The Naknek/Kvichak District fishery occurred much of or all season in the Naknek River Special Harvest Area (NRSHA) from 1999 through 2007, which makes management of the Naknek River escapement difficult. Allocation between gear groups when the fishery is in the NRSHA is not based on percentage, but on a ratio of tides fished, which is three tides for drift gillnet gear to one tide for set gillnet gear. The fishery has occurred in 2008 and 2009 without the use of the NRSHA. Generally, runs to all districts from 2007 through 2009 have been near or above long term averages. During periods of processor limits and suspensions, management of the escapement has taken priority over management of the allocation.

The total set gillnet harvests by section for Nushagak District and Naknek/Kvichak District (2007 through 2009) are listed in Tables 10 and 12. Tables 11 and 13 list the allocation breakdown by section and inriver fisheries for the allocation periods; June 1–July 17. During the 2007–2009 period:

- 1) Igushik Section set gillnet average percent of the total harvest is 4% (Table 10) and during the allocation period (June 1–July 17), it has been 4% (Table 11);
- 2) Nushagak Section set gillnet percentage of the harvests has averaged 18%;
- 3) Naknek Section set gillnet average percent of the harvest, during the allocation period, has been 8% when the section was fished, while Kvichak Section set gillnetters have averaged 6% (Table 13);
- 4) Egegik District set gillnetter's average harvest has been 15% (Table 4); and
- 5) Ugashik set gillnetters averaged 10% (Table 5).

Comparisons of the average harvests for each gear type in numbers of sockeye are listed in Table 8 with pre and post allocation plan averages calculated. Average sockeye salmon harvests are up for both gear groups from 2007 through 2009 primarily because of increased abundance, but improvements in the processing sector have also been a factor.

Average sockeye catches per permit holder by gear type and by district, from 1984 through 2009, are listed in Table 9. These data indicate that the Egegik District drift gillnet group has achieved the largest 10-year average (2000–2009) sockeye harvest per permit holder of any district, with 10,394 fish per permit. Nushagak District fishermen were second with 9,005. Preliminary data indicate the largest single season individual drift delivery average of 18,387 sockeye per permit holder was recorded in Egegik District in 2009. Egegik District set gillnet fishermen have the highest 10-year average harvest in Bristol Bay with 5,728 sockeye per permit holder and Nushagak District set gillnet fishermen are second with a 10-year average of 5,102 sockeye salmon. Egegik District fishermen posted the largest single season individual set gillnet average harvest per permit in the last 20 years with 9,042 sockeye per permit, in 2009 (preliminary). Togiak District fishermen have had the lowest average annual harvest for both gear groups in the last 10 years with drift gillnet fishermen averaging 2,924 sockeye salmon per permit holder and set gillnetters averaging 2,525 fish. However, during the superexclusive periods from 1996–2008, the average in the Togiak District was 3,910 for drift gillnet fishermen and 2,487 for set gillnet fishermen.

GENERAL DISTRICT

In anticipation of a large sockeye salmon run in 2004, the board allowed fishing in the General District. The regulation allowing fishing in this district had a sunset clause allowing the regulation to expire in December, 2004. Information on harvest and effort is presented in Table 15.

ALAGNAK RIVER SPECIAL HARVEST AREA

In response to strong runs to Alagnak (Branch) River, the board created an inriver fishery in the Alagnak River Special Harvest Area (ARSHA). In 2005, the ARSHA was fished exclusively by set gillnet gear, but after action by the board in 2006, drift gillnet fishing was also allowed. No directed fishing occurred in the ARSHA in 2008 or 2009.

The ARSHA can be best characterized as shallow and braided. There are few set gillnet sites and limited drift gillnet fishing can only occur during a couple of hours on either side of high tides. Fishermen must exit the river while there is still sufficient water depth or risk grounding. This can be more difficult after a fishing period when the vessels have fish on board. Harvest and effort information from Alagnak River is presented in Table 15.

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- Salomone, P. 2006. Summary of Bristol Bay sockeye salmon harvests by gear type, 2001-2006; a report to the Alaska Board of Fisheries. Alaska Department of Fish and Game, Special Publication No. 06-27, Anchorage. http://www.sf.adfg.state.ak.us/FedAidPDFs/sp06-27.pdf
- Weiland, Keith. 2003. Summary of Bristol Bay sockeye salmon catches by gear type, 1965–2003. Alaska Department of Fish and Game, Division of Commercial Fisheries, Regional Information Report No. 2A03-25, Anchorage.

TABLES AND FIGURES

Table 1.-Drift and set gillnet fishing effort by year and district, 1975–2009.

^a Drift gillnet effort before July 24 is as follows: 1996–37, 1997–40, 1998–33, 1999–44, 2002–80, 2003–118, and before July 21, 2000–40, 2001–81.

b Set gillnet effort before July 24 1996-79, 1997-83, 1998-76, 1999-68, 2002-59, 2003-72 and before July 21, 2000-66, 2001-73.

^c Preliminary.

Table 2.-Bristol Bay sockeye salmon harvest in percent and numbers by gear type, 1965–2009.

	Percentage of I by Gear T		Harvest in Nu Gear Type (Total Harvest	
Year	Drift	Set	Drift	Set	(1,000's)	
1965	92	8	22,315	1,940	24,255	
1966	89	11	8,289	1,025	9,314	
1967	89	11	3,855	476	4,331	
1968	90	10	2,514	279	2,793	
1969	88	12	5,827	795	6,622	
1970	93	7	19,271	1,450	20,721	
1971	90	10	8,626	958	9,584	
1972	93	7	2,247	169	2,416	
1973	92	8	700	61	761	
1974	79	21	1,076	286	1,362	
1975	91	9	4,458	441	4,899	
1976	90	10	5,057	562	5,619	
1977	89	11	4,341	537	4,878	
1978	88	12	8,737	1,191	9,928	
1979	88	12	18,858	2,571	21,429	
1980	86	14	20,435	3,327	23,762	
1981	86	14	22,019	3,584	25,603	
1982	87	13	13,318	1,942	15,260	
1982	90	10	33,448	3,924	37,372	
1984	90	10				
			22,219 21,352	2,486	24,705	
1985	90	10	,	2,344	23,696	
1986	85 87	15	13,356	2,420	15,776	
1987	87	13	13,911	2,158	16,069	
1988	86	14	12,038	1,952	13,990	
1989	86	14	24,642	4,093	28,735	
1990 ^a	87	13	29,067	4,377	33,444	
1991	86	14	22,241	3,580	25,821	
1772	87	13	27,877	3,985	31,862	
1773	87	13	35,306	5,156	40,462	
1994 ^a	88	12	31,121	4,098	35,219	
1995 ^a	87	13	38,516	5,649	44,165	
1996 ^a	86	14	25,510	4,079	29,589	
1997 ^a	82	18	9,944	2,127	12,071	
1998 ^a	80	20	7,941	1,987	9,928	
1999 ^a	81	19	20,859	4,738	25,597	
2000 ^a	81	19	16,458	3,894	20,352	
2001 ^a	79 - 2	21	11,090	2,989	14,079	
2002 ^a	79 70	21	8,351	2,175	10,526	
2003 ^a	79	21	12,046	3,231	15,277	
2004 ^a	85	15	22,276	3,985	26,261	
2005 ^a	81	19	19,991	4,529	24,520	
2006 ^a	84	16	23,787	4,659	28,446	
2007 ^a	83	17	24,481	5,203	29,684	
2008 ^a	82	18	22,523	5,039	27,562	
2009 ^{a,b}	81	19	25,229	5,848	31,077	
1965–2009Avg.	86	14	16,612	2,718	19,329	
20-yr. Avg.	83	17	21,731	4,066	25,797	
10-yr. Avg.	81	19	18,623	4,155	22,778	
1978–1997 Avg.	87	13	22,196	3,252	25,448	
1998–2009 Avg.	81	19	17,919	4,023	21,942	
2007–2009 Avg.	82	18	24,078	5,363	29,441	

a Harvest numbers exclude personal use and test fisheries harvests.
b Preliminary harvest figures.

Table 3.–Naknek-Kvichak District sockeye salmon harvest in percent and numbers by gear type, 1965–2009.

			Harvest in Nu		Season
-	by Gear T		Gear Type ((1,000's)	Total Harvest
Year	Drift	Set	Drift	Set	(1,000's)
1965	95	5	18,206	964	19,170
1966	93	7	5,040	358	5,398
1967	90	10	2,115	223	2,338
1968	89	11	1,085	132	1,217
1969	91	9	4,250	405	4,655
1970	96	4	16,757	724	17,481
1971	93	7	5,426	431	5,857
1972	96	4	1,062	40	1,102
1973	88	12	149	20	169
1974	82	18	439	99	538
1975	94	6	2,888	198	3,086
1976	93	7	2,363	184	2,547
1977	90	10	1,956	211	2,167
1978	91	9	4,651	473	5,124
1979	90	10	13,548	1,443	14,991
1980	88	12	12,330	1,666	13,996
1981	89	11	9,732	1,261	10,993
1982	87	13	4,509	659	5,168
1983	92	8	19,774	1,785	21,559
1984	90	10	13,102	1,444	14,546
1985	87	13	7,154	1,025	8,179
1986	70	30	2,014	878	2,892
1987	86	14	4,272	714	4,986
1988	86	14	3,011	470	3,481
1989	89	11	12,265	1,545	13,810
1990	88	12	15,189	2,083	17,272
1991	89	11	9,322	1,154	10,476
1992	89	11	8,347	1,030	9,377
1993	84	16	7,460	1,447	8,907
1994	89	11	14,582	1,799	16,381
1995	89	11	17,947	2,306	20,253
1996	83	17	6,804	1,411	8,215
1997	73	27	420	157	577
1998 ^a	85	15	1,878 ^a	327 a	2,539
1999 ^a	84	16	7,091 ^a	1,310 a	9,407
2000 ^{a,b}	82	18	3,747 ^a	829 a	4,689
2001 ^{a,b}	77	23	4,051 ^a	1,180 ^a	5,243
2002 ^{a,b}	65	35	889 ^a	487 ^a	1,384
2003 ^{a,b}	66	34	2,139 a	1,104 ^a	3,243
2004 ^a	80	20	3,561 ^a	883 ^a	4,444
2005 ^a	78	22	4,937 ^a	1,430 a	6,367
2006 a	83	17	5,021 ^a	1,014 a	6,035
2007 ^a	81	19	6,884 ^a	1,666 ^a	8,550
2008 a	81	19	8,121 a	1,919 a	10,040
2009 ^{a,c}	80	20	6,698 ^a	1,696 ^a	8,394
1965–2009 Avg.	86	14	6,737	946	7,717
20-yr. Avg.	81	19	6,754	1,262	8,090
10-yr. Avg.	77	23	4,605	1,221	5,839
1978–1997 Avg.	86	14	9,322	1,238	10,559
1998-2009 Avg.	78	21	4,585	1,154	5,861
•					
2007–2009 Avg. Allocation	81 84	19 16	7,234	1,760	8995

^a Allocation accounting period: June 1 to July 17, test fishery and personal use fish are excluded.

When the Naknek River Special Harvest Area (NRSHA) is in effect, fishing periods were alternated between gear groups.

^c Preliminary data.

Table 4.-Egegik District sockeye salmon harvest in percent and numbers by gear type, 1965-2009.

. Egogik Distric			Homiset in Num		
	Percentage		Harvest in Nun		Season
37	by Gear		Gear Type (1		Total Harvest
Year	Drift	Set	Drift	Set	(1,000's)
1965	83	17	2,655	525	3,180
1966	88	12	1,849	252	2,101
1967	90	10	959	112	1,071
1968	93	7	627	44	671
1969	80	20	713	176	889
1970	85	15	1,196	208	1,404
1971	87	13	1,137	170	1,307
1972	91	9	761	79	840
1973	90	10	199	22	221
1974	78	22	134	38	172
1975	90	10	867	97	964
1976	91	9	1,204	126	1,330
1977	88	12	1,564	217	1,781
1978	84	16	1,009	199	1,208
1979	78	22	1,756	501	2,257
1980	71	29	1,875	748	2,623
1981	77	23	3,349	1,012	4,361
1982	83	17	2,023	425	2,448
1983	86	14	5,805	953	6,758
1984	92	8	4,752	435	5,187
1985	93	7	6,999	539	7,538
1986	89	11	4,336	516	4,852
1987	91	9	4,859	498	5,357
1988	90	10	5,841	616	6,457
1989	90	10	7,968	934	8,902
1990	91	9	9,486	886	10,372
1991	91	9	6,164	633	6,797
1992	91	9	14,259	1,376	15,635
1993	93	7	20,034	1,563	21,597
1994	92	8	9,917	830	10,747
1995	90	10	12,988	1,396	14,384
1996	90	10	9,722	1,087	10,809
1997	87	13	6,494	968	7,462
1998	86	14	2,911 a	462 ^a	3,503
1999	85	15	6,031 ^a	1,097 ^a	7,384
2000	84	16	5,834 ^a	1,095 a	6,996
2001	85	15	2,391 ^a	409 ^a	2,837
2002	85	15	3,812 a	696 ^a	4,525
2003	80	20	1,767 ^a	450 a	2,217
2004	85	15	8,360 a	1,473 a	9,833
2005	82	18	6,489 a	1,417 ^a	7,906
2006	84	16	5,605 a	1,076 a	6,681
2007	84	16	5,228 ^a	983 ^a	6,211
2008	85	15	6,165 ^a	1,121 ^a	7,286
2009 ^b	85	15	9,726 ^a	1,651 a	11,377
1965–2009 Avg.	86	14	4,840	669	5,521
20-yr. Avg.	87	13	7,669	1,033	8,728
10-yr. Avg.	84	16	5,538	1,037	6,587
1978–1997 Avg.	87	13	6,982	806	7,788
1998–2009 Avg.	84	16	5,360	994	6,396
2007–2009 Avg.	85	15	7,040	1,252	8,291
Allocation	86	14	.,	-,	-,-/-

Allocation accounting period: June 1 to July 17, test fishery and personal use fish are excluded.

b Preliminary data.

Table 5.–Ugashik District sockeye salmon harvest in percent and numbers by gear type, 1965–2009.

	Percentage of I		Harvest in Num		Season		
	by Gear T		Gear Type (1,0		Total Harvest		
Year	Drift	Set	Drift	Set	(1,000's)		
1965	82	18	760	166	926		
1966	83	17	370	75	445		
1967	81	19	133	31	164		
1968	80	20	66	16	82		
1969	84	16	142	28	170		
1970	77	23	132	40	172		
1971	89	11	848	106	954		
1972	28	72	5	13	18		
1973	75	25	3	1	4		
1974	50	50	1	1	2		
1975	80	20	12	3	15		
1976	90	10	158	17	175		
1977	90	10	84	9	93		
1978	87	13	7	1	8		
1979	84	16	328	62	390		
1980	88	12	778	108	886		
1981	89	11	1,884	232	2,116		
1982	87	13	988	151	1,139		
1983	93	7	3,116	233	3,349		
1984	92	8	2,456	202	2,658		
1985	96	4	6,212	251	6,463		
1986	95	5	4,765	238	5,003		
1987	94	6	2,001	128	2,129		
1988	91	9	1,383	140	1,523		
1989	87	13	2,752	394	3,146		
1990	91	9	1,960	189	2,149		
1991	89	11	2,617	328	2,945		
1992	90	10	2,984	332	3,316		
1993	90	10	3,763	414	4,177		
1994	93	7	4,047	303	4,350		
1995	95	5	4,254	222	4,476		
1996	95	5	4,191	220	4,411		
1997	88	12	1,227	166	1,393		
1998	85	15	442 ^a	78 ^a	716		
1999	89	11	1,654 ^a	197 ^a	2,255		
2000	87	13	1,326 ^a	190 ^a	1,517		
2001	80	20	357 ^a	90 ^a	475		
2002	88	12	1,341 ^a	181 ^a	1,570		
2003	88	12	1,505 ^a	205 ^a	1,710		
2004	88	12	2,573 ^a	354 ^a	2,927		
2005	87	13	1,740 a	259 ^a	1,999		
2006	87	13	1,469 ^a	205 a	1,674		
2007	92	8	4,167 ^a	354 ^a	4,521		
2008	92	8	2,036 a	174 ^a	2,210		
2009 ^b	87	13	2,192 ^a	329 a	2,521		
1965–2009 Avg.	86	14	1,672	165	1,852		
20-yr. Avg.	89	11	2,292	240	2,566		
10-yr. Avg.	88	12	1,871	234	2,112		
1978–1997 Avg.	91	9	2,586	216	2,801		
1998–2009 Avg.	87	12	1,734	218	2,008		
	90	10	2,798	286	3,084		
2007–2009 Avg.	70	10	2,790	200	3,004		

^a Allocation accounting period: 1998–June 1 to July 26; 1999–June 1 to July 19; 2000–June 1 to July 31; 2001 to 2009 June 1 to July 17; test fishery and personal use fish are excluded.

b Preliminary data.

Table 6.-Nushagak District sockeye salmon harvest in percent and numbers by gear type, 1965–2009.

	Percentage of I by gear ty			Harvest in Numbers by gear type (1,000's)			
Veor	Drift	Set	Drift	Set	Total Harves (1,000's)		
Year							
1965	72	28	693	263	956		
1966	72	28	840	331	1,171		
1967	86	14	569	89	658		
1968	90	10	674	75 142	749		
1969	81	19	607	142	749		
1970	67 77	33	791	397	1,188		
1971	77	23	969	288	1,257		
1972 1973	92 93	8 7	352 252	30	382		
		27	252 371	20	272		
1974	73			139	510		
1975	80	20	518	128	646		
1976	85	15	1,071	195	1,266		
1977	86	15	529	90	619		
1978	85	15	2,666	471	3,137		
1979	82	18	2,713	614	3,327		
1980	85	15	3,802	696	4,498		
1981	81	19	6,100	1,393	7,493		
1982	90	10	5,299	611	5,910		
1983	84	16	4,287	833	5,120		
1984	83	17	1,660	332	1,992		
1985	64	36	830	477	1,307		
1986	75	25	2,032	687	2,719		
1987	78	22	2,551	703	3,254		
1988	75	25	1,274	433	1,707		
1989	58	42	1,609	1,179	2,788		
1990	67	33	2,384	1,149	3,533		
1991	76	24	3,816	1,238	5,054		
1992	65	35	1,820	970	2,790		
1993	72	28	3,755	1,482	5,237		
1994	71	29	2,418	975	3,393		
1995	68	32	3,009	1,437	4,446		
1996	81	19	4,589	1,076	5,665		
1997	70	30	1,760	747	2,507		
1998	72	28	2,148 ^a	830 a	2,978		
1999	72	28	4,464 ^a	1,702 a	6,166		
2000	78	22	4,934 ^a	1,364 ^a	6,355		
2001	79	21	3,708 a	979 ^a	4,712		
2002	75	25	2,117 ^a	692 a	2,814		
2003	84	16	5,589 ^a	1,051 a	6,640		
2004	84	16	5,077 ^a	989 ^a	6,066		
2005	85	15	6,008 ^a	1,024 ^a	7,032		
2006	88	12	9,324 ^a	1,298 a	10,622		
2007	80	20	6,620 a	1,668 a	8,288		
2008	79	21	5,366 ^a	1,434 a	6,800		
2009 ^b	76	24	5,828 ^a	1,798 ^a	7,626		
965–2009 Avg.	78	22	2,840	767	3,609		
20-yr. Avg.	76	24	4,237	1,195	5,436		
10-yr. Avg.	81	19	5,457	1,230	6,696		
978–1997 Avg.	75	25	2,919	875	3,794		
998–2009 Avg.	79	21	5,099	1,236	6,342		
.007–2009 Avg.	78	22	5,938	1,633	7,571		
Allocation	74	26					

Allocation accounting period: 1998- June 1 -Sept 30; 1999- June 1 to Sept. 30; 2000 to 2009 - June 1 to July 17; test fishery and personal use fish are excluded. Totals contain Wood River Special Harvest Area (WRSHA) harvest.

b Preliminary data.

Table 7.-Togiak District sockeye salmon harvest in percent and numbers by gear type, 1965-2009.

	Percentage of by Gear		Harvest in No Gear Type		Season Total Harvest
Year	Drift	Set	Drift	Set	(1,000's)
1965	100	0	261	0	261
1966	98	3	195	5	200
1967	95	5	95	5	100
1968	99	1	72	1	73
1969	99	1	133	2	135
1970	99	1	153	1	154
1971	100	0	208	1	209
1972	100	0	75	0	75
1973	99	1	95	1	96
1974	91	9	127	12	139
1975	92	8	174	15	189
1976	92	8	277	25	302
1977	89	11	196	23	219
1978	84	16	378	74	452
1979	82	18	376	85	461
1980	83	17	528	107	635
1981	79	21	503	136	639
1982	84	16	500	96	596
1983	80	20	468	120	588
1984	77	23	249	73	322
1985	75	25	157	52	209
1986	68	32	210	99	309
1987	66	34	228	115	343
1988	64	36	529	293	822
1989	55	45	49	40	89
1990	64	36	126	71	197
1991	59	41	322	227	549
1992	62	38	450	276	726
1993	54	46	290	250	540
1994	52	48	209	191	400
1995	52	48	317	288	605
1996	45	55	207	255	462
1997	37	63	52	90	142
1998	43	57	82	108	190
1999	53	47	203	182	385
2000	58	42	458	337	795
2001	66	34	533	277	810
2002	61	39	142	92	234
2002	58	42	275	197	472
2003	54	46	152	130	282
2004	55 55	45	196	159	355
2003	53	43 47	329	297	626
2007	60	40	494	323	817
2007	59	40 41	388	323 264	652
2008 2009 ^a	59 61		388 352		571
		39		219	
1965–2009 Avg.	72 55	28	263	125	387
20-yr. Avg.	55 59	45 42	279	212	491 561
10-yr. Avg.	58	42	332	230	561

^a Preliminary data.

Table 8.–Bristol Bay average harvest in numbers of sockeye salmon by gear type and year, 1965–2009.

	Estima		Harvest of			
	Perm		(No. of Fi		Drift Gillnet	Set Gillnet
	Actually		Permit 7		% of Total	% of Total
Year	Drift	Set	Drift	Set	Harvest	Harvest
1965	1,395	582	15,996	3,333	92	8
1966	1,715	549	4,833	1,867	89	11
1967	1,555	439	2,479	1,084	89	11
1968	1,237	493	2,032	566	90	10
1969	1,633	511	3,568	1,556	88	12
1970	1,674	623	11,512	2,327	93	7
1971	1,710	421	5,044	2,276	90	10
1972	1,467	490	1,532	345	93	7
1973	953	542	735	113	92	8
1974	659	214	1,633	1,336	79	21
1975	1,235	445	3,610	991	91	9
1976	1,353	501	3,738	1,122	90	10
1977	1,359	498	3,194	1,078	89	11
1978	1,575	656	5,547	1,816	88	12
1979	1,714	770	11,002	3,339	88	12
1980	1,764	807	11,584	4,123	86	14
1981	1,785	841	12,336	4,262	86	14
1982	1,792	859	7,432	2,261	87	13
1983	1,797	865	18,613	4,536	90	10
1984	1,804	869	12,317	2,861	90	10
1985	1,815	872	11,764	2,688	90	10
1986	1,823	869	7,326	2,785	85	15
1987	1,824	899	7,627	2,400	87	13
1988	1,837	922	6,553	2,117	86	14
1989	1,855	971	13,284	4,215	86	14
1990	1,869	971	15,552	4,508	87	13
1991	1,873	950	11,875	3,768	86	14
1992	1,879	968	14,836	4,116	88	13
1993	1,875	965	18,830	5,343	87	13
1994	1,865	939	16,687	4,364	88	12
1995	1,882	967	20,465	5,841	87	13
1996	1,884	941	13,541	4,334	86	14
1997	1,875	921	5,303	2,310	82	18
1998	1,850	901	4,293	2,206	80	20
1999	1,847	925	11,294	5,122	81	19
2000	1,823	921	9,028	4,228	81 ^a	19 ^a
2001	1,566	834	7,082	3,584	79 ^a	21 ^a
2002	1,183	680	7,060	3,199	79 ^a	21 ^a
2003	1,415	765	5,225	3,931	79 ^a	21 ^a
2004	1,411	794	19,723	3,829	84 ^a	16 ^a
2005	1,439	821	19,371	4,289	82 ^a	18 ^a
2006	1,466	837	21,570	3,759	85 ^a	15 ^a
2007	1,461	827	23,106	4,859	83 ^a	17 ^a
2008	1,455	842	21,855	4,814	84 ^a	16 ^a
2009^{b}	1,446	824	24,627	5,602	81 ^a	19 ^a
1965-2009Avg.	1,615	758	10,591	3,098	86	14
20 year Avg.	1,668	880	14,566	4,200	83	17
10 year Avg.	1,469	813	14,891	4,055	82	18
1978–1997 Avg.	1,819	891	12,124	3,599	87	13
1998–2009 Avg.	1,530	831	14,520	4,119	82 ^a	19 ^a
2007–2009 Avg.	1,454	831	23,196	5,092	83	17 ^a
A I 1 I 1 1 7						

June 1 to July 17.
 Preliminary data.

Table 9.-Average harvest in numbers of sockeye salmon by gear type and district, 1984–2009.

Year 1984	Naknek-I Drift			gik	Ugas	snik	Nush	agak	10	ogiak	
1984	Dilli	Set	Drift	Set	Drift	Set	Drift	Set	Drift	Set	
1005	12,009	4,272	8,293	2,417	7,847	3,811	2,887	1,277	1,107	1,159	
1985	6,141	2,920	7,478	2,978	8,395	4,254	2,044	1,900	1,342	963	
1986	2,789	2,946	5,205	1,849	5,646	1,750	2,709	2,021	1,489	900	
1987	4,023	2,245	5,230	2,417	3,161	1,641	4,075	2,475	1,562	1,716	
1988	2,967	1,328	5,783	3,192	2,393	2,000	2,386	1,535	1,648	2,382	
1989	10,111	4,256	8,081	4,385	4,959	5,794	4,291	4,094	329	412	
1990	10,951	4,723	9,789	4,140	4,595	2,953	6,137	3,360	992	922	
1991	8,560	3,214	9,241	3,000	6,291	5,290	8,171	3,968	1,556	2,142	
1992	8,552	2,951	15,057	6,778	5,956	4,955	3,808	3,255	1,619	2,379	
1993	8,945	4,319	16,850	6,885	6,189	5,914	7,663	5,007	1,883	2,336	
1994	12,755	5,518	9,123	3,640	8,484	4,522	5,312	3,305	1,222	1,661	
1995	15,120	6,626	13,744	6,744	5,725	3,313	7,555	4,606	1,801	2,618	
1996	8,941	4,055	10,420	5,355	6,695	4,151	8,046	3,971	4,216 a	2,633	a
1997	764	522	6,836	3,984	2,594	2,862	3,033	2,630	1,250 a	1,024	a
1998 ^b	2,035	1,128	3,140	2,287	1,373	1,696	3,315	2,996	2,333 a	1,342	a
1999 ^b	7,273	4,267	7,712	5,431	3,785	4,104	8,585	5,750	3,386 a	2,191	a
2000 b	4,996	2,567	7,202	5,394	2,550	3,393	7,498	4,624	6,850 a	4,379	a
2001 b	7,406	4,758	3,730	2,141	1,261	2,000	4,694	3,534	4,815 a	3,000	a
2002 b	2,686	2,155	9,012	4,767	3,548	5,171	4,320	3,249	1,025 a	1,000	a
2003 b	4,561	4,525	3,178	2,542	3,444	3,942	9,177	4,734	3,161 a	2,814	a
2004 b	8,186	3,188	13,727	8,369	7,480	8,045	11,698	4,319	2,111 a	1,857	a
2005 b	7,678	5,053	10,534	7,916	4,767	4,544	8,967	4,376	3,267 a	2,239	a
2006 b	7,439	4,447	11,099	5,945	7,063	3,661	13,773	5,619	4,000 a	3,213	a
2007 b	10,214	5,825	11,006	5,229	10,114	7,080	9,940	7,159	5,241 a	3,466	a
2008 b	11,438	6,805	15,727	5,931	7,144	3,412	10,182	5,759	4,845 a	3,178	a
2009 b,c	10,676	6,254	18,725	9,042	6,791	6,376	9,798	7,645	3,788 a	2,804	a
1–1997 Avg.		3,564	9,367	4,126	5,638	3,801	4,865	3,100	1,573	1,661	
8–2009 Avg.		4,248	9,566	5,416	4,943	4,452	8,496	4,980	3,735	2,624	
)–2009 Avg.		4,558	10,394	5,728	5,416	4,762	9,005	5,102	3,910	2,487	d
7–2009 Avg.		6,295	15,153	6,734	8,016	5,623	9,973	6,854	4,625	3,149	
					al effort liste			3,001	.,020	٥,1 ١٧	
verages for t	he superexcl	usive peri	ods only. 1	996–199	9. 2002–200	6 from I	une 1 through	h July 23	2000-2001 1	rom June	1 1
									allocation per		
eliminary da		or i willion		5-5····, O	5, unu 1		2 15111015, 111	2 101 1110	anocamon po	ilous only	
96 to 2008 a											

Table 10.-Nushagak District sockeye salmon harvest by gear type, in numbers of fish and percent of total catch, 1978-2009.

V.a.a.:	I an -1:11- C	4:	Set Net	14:	Comition 1	C	D.::6.N	- 4	T-4-1
Year	Igushik S		Nushagak S			Sections	Drift N		Total
1978	83,414	3%	387,730	12% 15%	471,144	15%	2,666,022	85%	3,137,16
1979	106,010	3%	508,219		614,229	18%	2,712,883	82%	3,327,111
1980	113,149	3%	582,873	13%	696,022	15%	3,801,765	85%	4,497,78
1981	236,129	3%	1,157,209	15%	1,393,338	19%	6,099,755	81%	7,493,09
1982	131,468	2%	479,496	8%	610,964	10%	5,298,763	90%	5,909,72
1983	145,225	3%	687,885	13%	833,110	16%	4,286,634	84%	5,119,74
1984	46,485	2%	285,712	14%	332,197	17%	1,660,484	83%	1,992,68
1985	99,944	8%	377,108	29%	477,052	36%	830,209	64%	1,307,26
1986	154,013	6%	533,479	20%	687,492	25%	2,031,821	75%	2,719,31
1987	138,889	4%	564,346	17%	703,235	22%	2,551,485	78%	3,254,72
1988	56,557	3%	376,479	22%	433,036	25%	1,273,680	75%	1,706,71
1989	238,887	9%	940,396	34%	1,179,283	42%	1,608,911	58%	2,788,19
1990	312,455	9%	836,091	24%	1,148,546	33%	2,383,997	67%	3,532,54
1991	399,745	8%	837,990	17%	1,237,735	24%	3,816,110	76%	5,053,84
1992	130,827	5%	839,067	30%	969,894	35%	1,819,947	65%	2,789,84
1993	308,822	6%	1,173,070	22%	1,481,892	28%	3,754,665	72%	5,236,55
1994	242,273	7%	732,943	22%	975,216	29%	2,417,927	71%	3,393,14
1995	492,937	11%	944,230	21%	1,437,167	32%	3,008,733	68%	4,445,90
1996	243,006	4%	795,250	14%	1,076,320	a 19%	4,588,549	81%	5,664,86
1997	28,887	1%	491,076	20%	746,985		1,759,833	70%	2,506,81
1998	116,398	4%	676,264	23%	830,453	a 28%	2,148,148	72%	2,978,60
1999	247,509	4%	1,053,905	17%	1,701,963	a 28%	4,464,182	72%	6,166,14
2000	247,744	4%	769,242	12%	1,395,083	a 22%	4,960,106	78%	6,355,18
2001	198,699	4%	794,860	17%	993,559	21%	3,717,640	79%	4,711,19
2002	22,786	1%	483,566	17%	694,317	a 25%	2,119,672	75%	2,813,98
2003	132,053	2%	926,975	14%	1,059,028	16%	5,589,272	84%	6,648,30
2004	73,846	1%	934,420	15%	1,009,506	17%	5,072,559	83%	6,082,06
2005	130,972	2%	1,057,984	15%	1,058,088	15%	6,022,274	85%	7,080,36
2006	178,262	2%	1,210,390	11%	1,388,652	13%	9,477,766	87%	10,866,41
2007	241,913	3%	1,472,768	18%	1,714,681	20%	6,684,751	80%	8,399,43
2008	335,249	5%	1,154,107	17%	1,489,356	22%	5,390,882	78%	6,880,23
2009^{b}	305,042	4%	1,525,212	20%	1,830,254	24%	5,795,807	76%	7,626,06
978–1997 Avg.	185,456	5%	676,532	19%	875,243	25%	2,918,609	75%	3,793,85
20-yr. Avg.	219,471	4%	935,471	18%	1,211,935	24%	4,249,641	76%	5,461,57
10-yr. Avg.	186,657	3%	1,032,952	16%	1,263,252	19%	5,483,073	81%	6,746,32
998–2009 Avg.	185,873	3%	1,004,974	16%	1,263,745	21%	5,120,255	79%	6,384,00
2007–2009 Avg.	294,068	4%	1,384,029	18%	1,678,097	22%	5,957,147	78%	7,635,24
Combined section									
Preliminary data.				1/-					

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Table 11.-Nushagak District sockeye salmon harvest by gear type, in numbers of fish and percent of the total harvest through the allocation period, 1998–2009.

	Drift												Nushagak
	Nushagak			Set Net						Wood River Special Harvest			District
Year	Distric	et	Nushagak S	Section	Igushik Se	ection	Combined S	Section	Drift N	let	Set N	let	Total
1998 ^a	2,007,865	72%	676,264	24%	116,398	4%	792,662	28%	140,283	79%	37,791	21%	2,978,601
1999 ^a	2,929,091	69%	1,053,905	25%	247,509	6%	1,301,414	31%	1,535,091	79%	400,549	21%	6,166,145
2000 b	4,077,020	80%	747,120	15%	242,527	5%	989,647	20%	857,423	70%	374,371	30%	6,298,461
2001 b	3,707,549	79%	780,934	17%	198,319	4%	979,253	21%					4,686,802
2002 b	1,749,893	78%	483,566	21%	22,786	1%	506,352	22%	366,742	66%	185,526	34%	2,808,513
2003 b	5,588,718	84%	919,677	14%	130,895	2%	1,050,572	16%					6,639,290
2004 b	5,076,849	84%	914,710	15%	74,080	1%	988,790	16%					6,065,639
2005 b	6,007,737	85%	893,364	13%	130,972	2%	1,024,336	15%					7,032,073
2006 b	9,323,622	88%	1,121,198	11%	177,110	2%	1,298,308	12%					10,621,930
2007	6,619,684	80%	1,432,765	17%	235,271	3%	1,668,036	20%					
2008	5,366,333	79%	1,115,275	16%	319,114	5%	1,434,389	21%					
2009 b,c	5,795,807	76%	1,525,212	20%	305,042	4%	1,830,254	24%					
2007–2009 Avg.	5,927,275	78%	1,357,751	18%	286,476	4%	1,644,226	22%	724,885	74%	249,559	26%	5,921,939
Allocation		74%		20%		6%		26%		74%		26%	

Allocation Period June 1 to September 30.
Allocation Period June 1 to July 17.

^c Data is preliminary.

Table 12.-Naknek-Kvichak District sockeye salmon harvest by gear type, in numbers of fish and percent of total catch, 1985-2009.

			Set N	let						
Year	Naknek Sec	ction	Kvichak Sec	ction	Combined Sections		Drift Net		Total	
1985	556,969	7%	84,078	1%	641,047	8%	7,144,809	92%	7,785,856	
1986	557,705	36%	19,992	1%	577,697	37%	971,066	63%	1,548,763	
1987	312,400	6%	296,197	6%	608,597	12%	4,272,334	88%	4,880,931	
1988	214,059	6%	255,936	7%	469,995	14%	3,010,841	86%	3,480,836	
1989	663,558	5%	881,849	6%	1,545,407	11%	12,264,549	89%	13,809,956	
1990	1,045,752	6%	1,034,462	6%	2,080,214	12%	15,189,248	88%	17,269,462	
1991	655,722	6%	496,732	5%	1,152,454	11%	9,321,417	89%	10,473,871	
1992	779,371	8%	262,147	3%	1,041,518	11%	8,441,331	89%	9,482,849	
1993	825,331	9%	569,432	6%	1,394,763	16%	7,513,113	84%	8,907,876	
1994	556,696	3%	1,261,049	8%	1,817,745	11%	14,529,192	89%	16,346,937	
1995	992,429	5%	1,313,263	6%	2,305,692	11%	17,973,847	89%	20,279,539	
1996	824,221	10%	249,069	3%	1,073,290	14%	6,800,835	86%	7,874,125	
1997	127,203	22%	29,752	5%	156,955	27%	432,356	73%	589,311	
1998	210,998	8%	219,055	9%	430,053	17%	2,109,144	83%	2,539,197	
1999	782,727	8%	625,526	7%	1,408,253	15%	7,972,244	85%	9,380,497	
2000	447,011	10%	204,730	4%	854,855 ^a	18%	3,833,644	82%	4,688,499	
2001	368,665	7%	50,428	1%	1,189,144 ^a	23%	4,056,909	77%	5,246,053	
2002	491,302	36%	0	0%	491,302 ^a	36%	892,578	64%	1,383,880	
2003	1,119,840	26%	0	0%	2,170,692 a	50%	2,170,692	50%	4,341,384	
2004	539,043	12%	369,410	8%	908,453 ^a	20%	3,620,332	80%	4,528,785	
2005	1,144,301	17%	336,300	5%	1,480,601 a,b	22%	5,245,664	78%	6,726,265	
2006	902,848	13%	244,573	3%	1,147,421 ^{a,b}	16%	5,989,891	84%	7,137,312	
2007	1,415,937	16%	342,617	4%	1,758,554 a,b	20%	7,239,794	80%	8,998,348	
2008	1,240,840	12%	717,623	7%	1,958,463	19%	8,372,454	81%	10,330,917	
2009 ^c	1,041,430	12%	694,287	8%	1,735,717	20%	6,942,869	80%	8,678,586	
1985–1997 Avg.	623,955	10%	519,535	5%	1,143,490	15%	8,297,303	85%	9,440,793	
1998–2009 Avg.	808,745	15%	317,046	5%	1,294,459	23%	4,870,518	77%	6,164,977	
2007–2009 Avg.	1,232,736	13%	584,842	6%	1,817,578	20%	7,518,372	80%	9,335,950	
Allocation		8%		8%		16%		84%		

a Includes Naknek inriver harvest.
 b Includes Alagnak inriver harvest.

^c Preliminary data.

Table 13.-Naknek/Kvichak District sockeye salmon harvest by gear type, in numbers of fish and percent of total harvest through the allocation period, 1998–2009.

	Drift												
	Naknek/Kvic	hak _	Set Net				Naknek River Special Harvest				District		
Year	District ^a		Naknek Se	ection	Kvichak Se	ection	Combined S	ection ^b	Drift N	et	Set Ne	et	Total
1998 °	1,877,531	85%	158,226	7%	168,311	8%	326,537	15%					2,204,068
1999 °	7,090,670	84%	726,640	9%	583,129	7%	1,309,769	16%	132,864	2%			8,400,439
2000 °	3,746,989	82%	443,043	10%	192,483	4%	828,933	18%	744,185	16%	193,407	4%	4,575,922
2001 ^c	4,050,707	77%	365,935	7%	50,428	1%	1,179,555	23%	2,144,345	41%	763,192	15%	5,230,262
2002 c,d	888,978	65%					487,445	35%	888,978	65%	487,445	35%	1,376,423
2003 ^c	2,139,203	66%	21,567	1%			1,104,474	34%	1,963,632	61%	1,083,201	33%	3,243,677
2004 ^c	3,561,125 8	80%	4,821	0%	399	0%	882,879	20%				0%	4,444,004
2005 ^c	4,937,268	78%	150,733	2%	76,208	1%	1,430,093	22%	3,530,899	55%	946,577	15%	6,367,361
2006 ^c	3,157,094	76%	301,596	7%	186,433	5%	978,120	24%	1,853,663	45%	490,091	12%	4,135,214
2007 ^c	6,883,574	81%	542,422	6%	288,954	3%	1,657,968	19%	3,122,366	37%	826,592	10%	8,541,542
2008 ^c	8,121,362	81%	700,185	7%	1,218,335	12%	1,918,520	19%	0		0		10,039,882
2009 ^{c,e}	6,552,048 8	80%	982,808	12%	655,205	8%	1,638,013	20%	0		0		8,190,060
1998–2009 Avg.	4,417,212	78%	399,816	6%	341,989	5%	1,145,192	22%	1,438,093	40%	532,278	16%	5,562,405
2007–2009 Avg.	7,185,661	80%	741,805	8%	720,831	8%	1,738,167	20%	1,040,789	37%	275,531	10%	8,923,828
Allocation	8	84%		8%		8%		16%					

Allocation 64 76 6

a Includes all drift gillnet harvest, district and inriver.
b Includes all set gillnet harvest, district and inriver.
c Allocation Period June 1 to July 17.
d Entire season was fished in the NRSHA.

e Data is preliminary.

Table 14.–Bristol Bay interim-use and permanent entry permits, and permits actually fished, 1980–2009.

	Number	Permits Fished			
Year	Interim Use	Permanent	Total	Number	Percent
		Drift Gill	net		
1980	110	1,717	1,827	1,764	97
1981	107	1,720	1,827	1,785	98
1982	100	1,724	1,824	1,792	98
1983	94	1,727	1,821	1,797	99
1984	89	1,729	1,818	1,804	99
1985	96	1,738	1,834	1,815	99
1986	95	1,743	1,838	1,823	99
1987	91	1,746	1,837	1,824	99
1988	90	1,749	1,839	1,837	100
1989	91	1,776	1,867	1,855	99
1990	93	1,785	1,878	1,869	100
1991	88	1,793	1,881	1,873	100
1992	86	1,797	1,883	1,879	100
1993	81	1,805	1,886	1,875	99
1994	77	1,810	1,887	1,865	99
1995	75	1,813	1,888	1,882	100
1996	70	1,821	1,891	1,884	100
1997	67	1,832	1,899	1,875	99
1998	55	1,844	1,899	1,858	98
1999	52	1,846	1,898	1,847	97
2000	38	1,852	1,890	1,823	96
2001	24	1,859	1,883	1,566	83
2002	2	1,878	1,880	1,183	63
2003	7	1,860	1,867	1,415	76
2004	3	1,857	1,860	1,411	76
2005	3	1,859	1,862	1,439	7
2006	1	1,857	1,858	1,570	84
2007	1	1,862	1,863	1,621	87
2008	0	1,863	1,863	1,636	88
2009 ^a	0	1,863	1,863	1,793	96
Average	60	1,804	1,864	1,742	93

-continued-

Table 14.–Page 2 of 2.

	Number o	Permits	Fished		
Year	Interim Use	Permanent	Total	Number	Percent
		Set Gillnet			
1980	34	913	947	807	85
1981	42	914	956	841	88
1982	41	916	957	859	90
1983	31	929	960	865	90
1984	31	931	962	869	90
1985	28	931	959	872	91
1986	22	940	962	869	90
1987	18	942	960	899	94
1988	17	941	958	922	96
1989	18	1,007	1025	971	95
1990	15	1,011	1026	971	95
1991	12	1,012	1024	950	93
1992	8	1,017	1025	968	94
1993	8	1,014	1022	965	94
1994	7	1,012	1019	939	92
1995	8	1,011	1019	967	95
1996	6	1,011	1017	941	93
1997	7	1,012	1019	921	90
1998	6	1,009	1015	901	89
1999	6	1,008	1014	925	91
2000	6	1,007	1013	921	91
2001	2	1,010	1012	834	82
2002	2	1,004	1006	680	68
2003	1	1,000	1001	756	76
2004	0	989	989	796	80
2005	0	988	988	824	83
2006	0	985	985	798	81
2007	0	983	983	836	85
2008	0	981	981	961	98
2009 ^a	0	982	982	940	96
Average	13	980	993	886	89

^a Preliminary data.

Table 15.-Alagnak River and General District harvest numbers by gear type, 2004–2007.

	Percentage of Harvest by Gear Type		Harvest in N Gear	-	Number of	Season Total harvest	
Year	Drift	Set	Drift	Drift Set			
			Alagnak R	iver			
2005	-	100	-	255,926	85(S)	255,926	
2006	22	78	10,139	35,836	8 (D) 46(S)	45,975	
2007	27	73	2,830	7,589	2 (D) 13(S)	10,419	
2008	no harvest						
2009	no harvest						
			General Dis	strict			
2004	100	-	1,656,994	-	897 (D)	1,656,994	

Note: (D) = drift gillnet; (S) = set gillnet.

a Preliminary data.

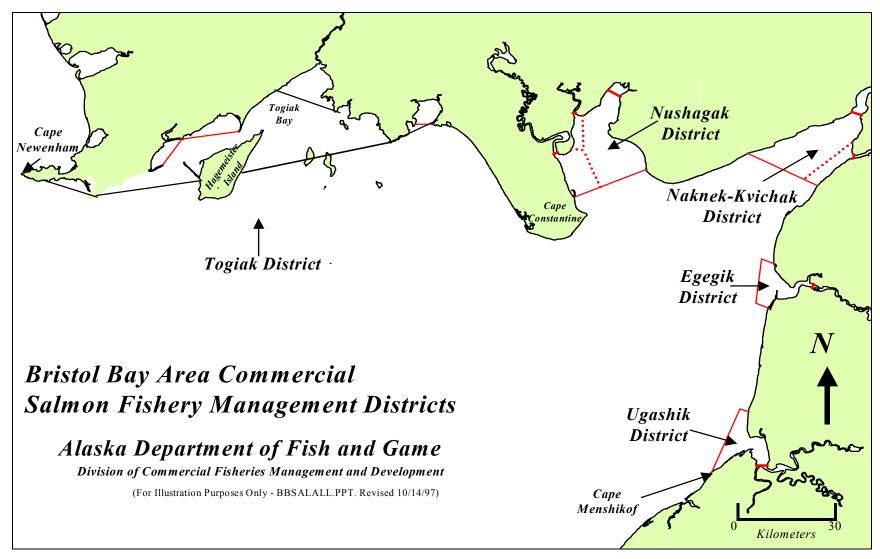


Figure 1.—Bristol Bay area commercial salmon fishery management districts.