

**Fishery Data Series No. 99-41 (Revised)**

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**Revised Edition:**

**Participation, Catch, and Harvest in Alaska Sport Fisheries During 1998**

by

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This report was revised in 2002 with an [addendum](#), published separately.

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June 2001

Alaska Department of Fish and Game

Division of Sport Fish



## Symbols and Abbreviations

The following symbols and abbreviations, and others approved for the Système International d'Unités (SI), are used in Division of Sport Fish Fishery Manuscripts, Fishery Data Series Reports, Fishery Management Reports, and Special Publications without definition. All others must be defined in the text at first mention, as well as in the titles or footnotes of tables and in figures or figure captions.

<b>Weights and measures (metric)</b>		<b>General</b>		<b>Mathematics, statistics, fisheries</b>	
centimeter	cm	All commonly accepted abbreviations.	e.g., Mr., Mrs., a.m., p.m., etc.	alternate hypothesis	$H_A$
deciliter	dL			base of natural logarithm	e
gram	g	All commonly accepted professional titles.	e.g., Dr., Ph.D., R.N., etc.	catch per unit effort	CPUE
hectare	ha			coefficient of variation	CV
kilogram	kg	and	&	common test statistics	F, t, $\chi^2$ , etc.
kilometer	km	at	@	confidence interval	C.I.
liter	L	Compass directions:		correlation coefficient	R (multiple)
meter	m			correlation coefficient	r (simple)
metric ton	mt		east E	covariance	cov
milliliter	ml		north N	degree (angular or temperature)	$^{\circ}$
millimeter	mm		south S	degrees of freedom	df
			west W	divided by	$\div$ or / (in equations)
		Copyright		equals	=
		Corporate suffixes:		expected value	E
		Company	Co.	fork length	FL
		Corporation	Corp.	greater than	>
		Incorporated	Inc.	greater than or equal to	$\geq$
		Limited	Ltd.	harvest per unit effort	HPUE
		et alii (and other people)	et al.	less than	<
		et cetera (and so forth)	etc.	less than or equal to	$\leq$
		exempli gratia (for example)	e.g.,	logarithm (natural)	ln
		id est (that is)	i.e.,	logarithm (base 10)	log
		latitude or longitude	lat. or long.	logarithm (specify base)	$\log_2$ , etc.
		monetary symbols (U.S.)	\$, ¢	mideye-to-fork	MEF
		months (tables and figures): first three letters	Jan,...,Dec	minute (angular)	'
		number (before a number)	# (e.g., #10)	multiplied by	x
		pounds (after a number)	# (e.g., 10#)	not significant	NS
		registered trademark	®	null hypothesis	$H_0$
		trademark	™	percent	%
		United States (adjective)	U.S.	probability	P
		United States of America (noun)	USA	probability of a type I error (rejection of the null hypothesis when true)	$\alpha$
		U.S. state and District of Columbia abbreviations	use two-letter abbreviations (e.g., AK, DC)	probability of a type II error (acceptance of the null hypothesis when false)	$\beta$
				second (angular)	"
				standard deviation	SD
				standard error	SE
				standard length	SL
				total length	TL
				variance	Var
<b>Weights and measures (English)</b>					
cubic feet per second	ft <sup>3</sup> /s				
foot	ft				
gallon	gal				
inch	in				
mile	mi				
ounce	oz				
pound	lb				
quart	qt				
yard	yd				
Spell out acre and ton.					
<b>Time and temperature</b>					
day	d				
degrees Celsius	$^{\circ}C$				
degrees Fahrenheit	$^{\circ}F$				
hour (spell out for 24-hour clock)	h				
minute	min				
second	s				
Spell out year, month, and week.					
<b>Physics and chemistry</b>					
all atomic symbols					
alternating current	AC				
ampere	A				
calorie	cal				
direct current	DC				
hertz	Hz				
horsepower	hp				
hydrogen ion activity	pH				
parts per million	ppm				
parts per thousand	ppt, $‰$				
volts	V				
watts	W				

***FISHERY DATA SERIES NO. 99-41 (REVISED)***

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FISHERIES DURING 1998**

by  
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June 2001

This investigation was partially financed by the Federal Aid in Sport Fish Restoration Act (16 U.S.C. 777-777K) under Project F-10-14, Job No. RT-1.

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*This document should be cited as:*

*Howe, A. L., R. J. Walker, C. Olnes, K. Sundet, and A. E. Bingham. 2001. Revised Edition: Participation, catch, and harvest in Alaska sport fisheries during 1998. Alaska Department of Fish and Game, Fishery Data Series No. 99-41 (revised), Anchorage.*

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## PREFACE

Late in 1999 project staff determined that computer programs used to process data from this study and produce estimates for 1995 through 1997 contained errors. These errors altered some angler's reported catch and harvest. The errors did not affect all species or fishing locations in the same way; thus some estimates were too high, while others were too low. In addition, when generating estimates for angler-days fished and household trips the computer programs did not properly account for anglers who did not respond to the survey. This error resulted in estimated days-fished and household trips that were too high for 1995 through 1997.

The division's technical staff also determined during review of the effect of the above errors that the approach used to account for anglers who did not respond should also be adjusted to reflect the approach published in current scientific literature. This adjustment would affect some 1995-1997 estimates and some 1998 estimates.

The 1996 through 1998 estimates have been revised. We are unable to retrieve the raw 1995 data due to a faulty data tape and thus those estimates cannot be adjusted. Statewide and regional comparisons of original and revised estimates are included in the Discussion section of this report. The recomputed 1996 through 1998 estimates are also included in summary tables in this report. The more detailed recomputed estimates will be published in revised editions of Fishery Data Series Nos. 99-41, 98-25, and 97-29. Summaries of sport fish survey results, including revised 1996 through 1998 estimates, are available on the Internet at:

<http://www.sf.adfg.state.ak.us/statewide/participationandharvest/html/index.cfm>

The division has a commitment to producing the best information possible for making management decisions about Alaska's recreational fisheries and we strive to improve our studies each year. We regret that these errors occurred, have taken steps to avoid such problems in the future, and have committed resources to correct estimates where possible.

In light of the above, anyone who has used 1996 through 1998 estimates from the Statewide Harvest Survey project may wish to review the changes that have resulted from these recalculations.

The purpose of this report is to provide the revised 1998 estimates. The data processing, and estimation procedures used to produce revised 1996 through 1998 estimates are described in Howe, et al (2001).

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## ABSTRACT

Since 1977, the Alaska Department of Fish and Game has conducted an annual mail survey to estimate sportfishing participation and harvests (fish kept) statewide by Alaska fisheries, areas, regions, and species. Since 1990, catches (fish harvested plus fish released) have also been estimated. Detailed findings are presented for 1998. In 1998, an estimated 428,991 anglers fished 1,856,976 days and kept 2,678,120 of 6,356,507 fish caught.

Key words: Alaska, recreation, sport, fish, fisheries, fishing, catch, harvest, angler, angler-days, survey, salmon, trout, char, Arctic grayling, northern pike, whitefish, burbot, smelt, Pacific halibut, rockfish, lingcod, razor clams.

## INTRODUCTION

A statewide database providing information on where sport fishing occurs, the extent of participation, the preferences of participants, and the species and numbers of major game fishes being caught and harvested is essential for regulation and management of Alaska's sport fisheries and for total regulation, management, and allocation of multiple-use fisheries. In addition, this information is needed for establishing priorities; for formulating policies; for budgeting; for planning and evaluating rehabilitation, enhancement, stocking, habitat protection, and access acquisition projects; for stock assessment; for forecasting; for gauging the economic and social significance of sport fishing; and for satisfying requests for information from individuals, special interest groups, government agencies, and the recreational industry.

Because of Alaska's vastness, meeting all these information requirements statewide by onsite creel surveys would be prohibitively expensive, thus a supplementary program has been developed. Described herein are results from the twenty-second year of that program, whose primary objective is to provide statewide estimates of participation, catch, and harvest for major Alaskan sport-caught species by area and fishery.

Alaska sportfishing regulatory and management areas are delineated in Appendix A1 and Appendix A2. Species covered are listed in Appendix A3.

## METHODS

The data collection methods were, of course, unchanged from those detailed in the original report for these estimates and are essentially the same as those described for the 1999 estimates (Howe, et al 2001). Howe, et al (2001) includes a description of the methods used to process data and produce revised estimates for 1996, 1997, and 1998.

## RESULTS

A full text Adobe PDF file of this report, as well as summaries of other estimates produced by this long-term study, is available via the division's Internet site under the Publications section:

**[http://www.state.ak.us/local/akpages/  
FISH.GAME/sportf/sf\\_home.htm](http://www.state.ak.us/local/akpages/FISH.GAME/sportf/sf_home.htm)**

The following Internet site also contains on-line summaries of sportfishing participation, catch, and harvest:

**[http://www.sf.adfg.state.ak.us/statewide/  
participationandharvest/html/index.cfm](http://www.sf.adfg.state.ak.us/statewide/participationandharvest/html/index.cfm)**

## PARTICIPATION

In 1998 an estimated 428,991 anglers fished 1,856,976 days (Appendix A7). About 49% of the anglers were Alaska residents who accounted for 65% of the total days fished. Nonresident participation in terms of anglers was highest in Southeast (69.8%) and lowest in the Arctic-Yukon-Kuskokwim (AYK) region (32.2%). In

Southcentral 53.3% of all anglers were Alaska residents.

While Alaska resident days fished exceeded those of nonresidents in all regions of the state, the margin was slight in Southeast with resident anglers accounting for 53.0% of the regional total days fished. Resident anglers in Southcentral and AYK accounted for about 66.5% and 76.5% of total regional days fished, respectively (Appendix A7).

Between 1995 and 1998 total anglers has declined slightly (Appendix A8) due to decreases in resident angler participation. Angler-days fished has also decreased between 1995 and 1998 (Appendix A12) with most of the decrease occurring in Southcentral between the years 1995 and 1996.

## HARVEST

The 2,678,120 fish harvested in 1998 (Appendix A14) included 660,219 razor clams *Siliqua patula* and 80,329 smelt and capelin Osmeridae. Of the remaining 1,937,572 harvested fish, 1,164,732 (60%) were anadromous (sea-run) salmon *Oncorhynchus*.

The 1998 total anadromous salmon harvest of 1,164,732 included 144,098 chinook salmon, 501,935 coho salmon, 339,385 sockeye salmon, 145,589 pink salmon *Oncorhynchus gorbuscha*, and 33,725 chum salmon *Oncorhynchus keta* (Appendix A14). The marine sea-run salmon harvest totaled 516,278 (Appendix A15) with the freshwater harvest being larger at 648,454 (Appendix A16).

Regionally, 323,820 anadromous salmon were harvested in Southeast Alaska (Appendix A17), 796,572 in Southcentral (Appendix A18), and 44,340 in the Arctic-Yukon-Kuskokwim area (Appendix A19).

Other harvest estimates for 1998 are tabulated by region, area, fishery, and species in Appendix A.

## CATCH

The catch of 6,356,507 fish in 1998 (Appendix A14) included 708,466 razor clams and 85,067 smelt. Of the remaining 5,562,974 fish caught, 2,616,896 (47%) were anadromous (sea-run) salmon *Oncorhynchus*. Anglers caught 657,316 rainbow trout *Oncorhynchus mykiss*, 522,234 Arctic grayling 507,567 Dolly Varden *Salvelinus malma* and Arctic char *Salvelinus alpinus*, and 640,706 Pacific halibut *Hippoglossus stenolepis* (Appendix A14).

Other catch estimates for 1998 are tabulated by region, area, fishery, and species in Appendix A.

## DISCUSSION

Statewide and regional comparisons of original and revised 1996-1998 and 1999 harvest estimates are presented by species in Tables 1-4. In some instances large percentage changes from the original are of minor significance because the original and revised estimates were imprecise or the absolute values of the estimates are small. For example, the 450% change from the original to revised estimate for 1996 steelhead harvest is tempered by the relatively small absolute value of that change of 337 fish (Table 1).

One of the more significant changes relates to revised estimates of angler-days fished. Prior to revision, it appeared the decline between 1996 and 1998 was around 579,000 days fished or 21% of the 1996 estimate. Revised estimates indicate an absolute change of about 149,000 days fished or about 7% of the revised 1996 estimate.

There is some concern that the 1998 estimates of days fished may be biased low. The 1999 estimate of days fished is about 642,000 (35%) higher than the revised 1998 estimate, despite only a slight decline in angler

**Table 1.-Original and revised 1996-1998 and 1999 Statewide estimates of participation and harvest.**

	1999	1998		Percent change from original	1997		Percent change from original	1996		Percent change from original
		Revised	Original		Revised	Original		Revised	Original	
<b>Participation</b>										
Anglers	425,979	428,991	347,644	23.4	438,117	477,880	-8.3	439,651	478,408	-8.1
Trips	1,458,632	1,219,819	1,346,735	-9.4	1,402,962	1,792,539	-21.7	1,395,189	1,731,414	-19.4
Days Fished	2,499,152	1,856,976	2,153,992	-13.8	2,079,514	2,654,454	-21.7	2,006,528	2,733,008	-26.6
<b>Salmon Species</b>										
Chinook	184,296	144,098	155,827	-7.5	185,175	185,463	-0.2	163,569	121,307	34.8
Sea-run Coho	632,829	501,935	600,862	-16.5	444,525	462,931	-4.0	555,196	503,413	10.3
Landlocked Coho/Chinook	29,105	34,767	35,731	-2.7	31,678	34,019	-6.9	54,442	40,628	34.0
Sockeye	377,483	339,385	385,720	-12.0	318,839	342,841	-7.0	319,174	405,533	-21.3
Kokanee	51	638	1,214	-47.4	202	328	-38.4	76	569	-86.6
Pink	177,295	145,589	174,906	-16.8	111,671	105,745	5.6	167,804	160,623	4.5
Chum	24,944	33,725	35,387	-4.7	31,348	24,157	29.8	38,565	32,091	20.2
<b>Other Species</b>										
Steelhead	675	390	893	-56.3	334	398	-16.1	412	75	449.3
Rainbow Trout	132,481	102,403	103,744	-1.3	127,661	100,372	27.2	133,229	136,482	-2.4
Cutthroat Trout	5,053	5,569	6,791	-18.0	4,569	5,716	-20.1	5,653	5,043	12.1
Brook Trout	112	10	24	-58.3	167	0		223	48	364.6
Lake Trout	9,948	5,985	6,522	-8.2	7,486	6,079	23.1	9,086	5,852	55.3
Dolly Varden/Arctic Char	70,962	70,864	70,864	0.0	81,576	63,781	27.9	89,089	63,991	39.2
Arctic Grayling	37,252	38,445	39,146	-1.8	45,844	37,269	23.0	46,943	37,238	26.1
Northern Pike	19,766	15,617	24,512	-36.3	16,603	18,327	-9.4	23,043	16,404	40.5
Whitefish	1,824	4,352	4,352	0.0	4,223	2,377	77.7	2,047	1,080	89.5
Burbot	6,903	6,882	6,965	-1.2	12,189	6,452	88.9	5,841	3,796	53.9
Sheefish	1,157	815	1,825	-55.3	1,761	1,979	-11.0	1,502	748	100.8
Smelt	108,145	80,329	82,992	-3.2	77,491	47,739	62.3	60,867	42,142	44.4
Halibut	332,657	350,464	383,748	-8.7	380,256	365,085	4.2	350,220	333,981	4.9
Shark	516	609	860	-29.2	1,391	1,195	16.4	127	0	
Rockfish	120,228	87,458	108,955	-19.7	88,220	100,604	-12.3	79,050	83,434	-5.3
Lingcod	30,565	25,312	31,162	-18.8	28,305	28,532	-0.8	24,362	18,912	28.8
Pacific Cod	3,471	5,252	6,758	-22.3	8,469	7,841	8.0	1,911	0	
Razor Clams	773,758	660,219	868,406	-24.0	850,003	1,333,510	-36.3	843,983	1,308,770	-35.5
Other Fish	12,132	17,008	25,028	-32.0	13,034	19,374	-32.7	11,610	14,613	-20.6

**Table 2.-Original and revised 1996-1998 and 1999 Southeast estimates of participation and harvest.**

	1999	1998		Percent change from original	1997		Percent change from original	1996		Percent change from original
		Revised	Original		Revised	Original		Revised	Original	
<b>Participation</b>										
Anglers	115,763	106,625	87,555	21.8	110,395	120,706	-8.5	105,847	114,322	-7.4
Trips	323,462	250,283	268,190	-6.7	302,164	375,750	-19.6	266,570	333,512	-20.1
Days Fished	534,664	370,653	415,665	-10.8	439,675	539,500	-18.5	370,419	509,550	-27.3
<b>Salmon Species</b>										
Chinook	72,081	55,013	57,817	-4.8	71,524	69,672	2.7	57,509	41,717	37.9
Sea-run Coho	313,076	171,395	213,435	-19.7	163,202	167,641	-2.6	193,758	161,615	19.9
Landlocked Coho/Chinook	2,111	249	249	0.0	195	102	91.2	36	11	227.3
Sockeye	26,476	25,450	29,243	-13.0	21,273	17,462	21.8	15,709	14,246	10.3
Kokanee	51	223	479	-53.4	29	20	45.0	76	44	72.7
Pink	107,142	50,706	57,952	-12.5	62,549	57,237	9.3	85,059	79,469	7.0
Chum	12,393	21,256	22,021	-3.5	19,059	14,472	31.7	20,196	17,238	17.2
<b>Other Species</b>										
Steelhead	319	119	261	-54.4	243	365	-33.4	159	54	194.4
Rainbow Trout	2,196	2,542	2,650	-4.1	2,126	1,371	55.1	1,911	923	107.0
Cutthroat Trout	4,604	4,852	6,054	-19.9	3,927	5,009	-21.6	4,946	4,486	10.3
Brook Trout	112	10	24	-58.3	167	0		223	48	364.6
Lake Trout	0	0	0		0	0		0	0	
Dolly Varden/Arctic Char	16,441	21,751	21,751	0.0	21,722	15,499	40.2	22,447	14,194	58.1
Arctic Grayling	228	58	59	-1.7	0	0		303	224	35.3
Northern Pike	0	0	0		0	0		0	0	
Whitefish	0	0	0		4	0		0	0	
Burbot	0	0	0		0	0		0	0	
Sheefish	0	0	0		0	0		0	0	
Smelt	4,479	3,868	5,139	-24.7	4,478	1,721	160.2	1,284	394	225.9
Halibut	100,681	102,110	110,214	-7.4	109,312	87,129	25.5	98,133	76,639	28.0
Rockfish	71,489	44,142	59,228	-25.5	40,088	46,145	-13.1	32,886	36,504	-9.9
Lingcod	22,252	18,041	21,552	-16.3	18,032	18,776	-4.0	16,409	13,121	25.1
Razor Clams	0	126	243	-48.1	141	0		228	328	-30.5
Other Fish	3,940	6,108	8,216	-25.7	5,760	7,191	-19.9	3,580	4,376	-18.2

**Table 3.-Original and revised 1996-1998 and 1999 Southcentral estimates of participation and harvest.**

	1998			Percent change from original	1997		Percent change from original	1996		Percent change from original
	1999	Revised	Original		Revised	Original		Revised	Original	
<b>Participation</b>										
Anglers	286,098	298,513	241,190	23.8	306,619	333,748	-8.1	317,917	345,887	-8.1
Trips	976,835	826,948	916,643	-9.8	947,649	1,213,713	-21.9	982,825	1,217,711	-19.3
Days Fished	1,659,966	1,258,482	1,465,738	-14.1	1,400,983	1,803,564	-22.3	1,434,943	1,948,892	-26.4
<b>Salmon Species</b>										
Chinook	102,360	76,195	83,724	-9.0	98,680	101,102	-2.4	98,983	73,726	34.3
Sea-run Coho	309,564	321,029	375,742	-14.6	269,996	283,311	-4.7	347,567	328,178	5.9
Landlocked Coho/Chinook	18,125	22,427	22,929	-2.2	24,328	26,324	-7.6	40,766	28,799	41.6
Sockeye	338,741	301,044	341,906	-12.0	284,062	311,962	-8.9	302,678	390,513	-22.5
Kokanee	0	415	735	-43.5	173	308	-43.8	0	525	-100.0
Pink	67,102	87,711	107,664	-18.5	47,589	47,837	-0.5	76,247	75,396	1.1
Chum	10,873	10,593	11,335	-6.5	10,693	8,352	28.0	14,413	11,618	24.1
<b>Other Species</b>										
Steelhead	348	271	632	-57.1	91	21	333.3	253	21	1104.8
Rainbow Trout	77,707	55,864	56,728	-1.5	87,554	67,261	30.2	81,814	84,573	-3.3
Cutthroat Trout	449	717	737	-2.7	642	707	-9.2	707	557	26.9
Brook Trout	0	0	0		0	0		0	0	
Lake Trout	5,817	3,328	3,627	-8.2	4,197	3,074	36.5	7,880	5,008	57.3
Dolly Varden/Arctic Char	36,606	37,608	37,608	0.0	46,468	38,522	20.6	54,229	39,625	36.9
Arctic Grayling	8,749	7,776	7,878	-1.3	11,876	10,538	12.7	21,649	17,410	24.3
Northern Pike	13,327	9,595	14,466	-33.7	10,489	9,452	11.0	10,503	7,260	44.7
Whitefish	277	1,474	1,474	0.0	1,380	652	111.7	1,215	838	45.0
Burbot	1,373	1,578	1,600	-1.4	3,575	1,377	159.6	2,030	1,667	21.8
Sheefish	0	0	0		0	0		0	0	
Smelt	100,620	73,128	74,520	-1.9	70,185	45,891	52.9	57,010	40,435	41.0
Halibut	231,708	247,316	272,343	-9.2	270,775	277,782	-2.5	251,746	257,287	-2.2
Shark	516	609	860	-29.2	1,391	1,195	16.4	127	0	
Rockfish	48,739	43,316	49,727	-12.9	48,132	54,459	-11.6	46,164	46,930	-1.6
Lingcod	8,313	7,271	9,610	-24.3	10,273	9,756	5.3	7,953	5,791	37.3
Pacific Cod	3,471	5,252	6,758	-22.3	8,469	7,841	8.0	1,911	0	
Razor Clams	773,758	660,093	868,163	-24.0	849,862	1,333,510	-36.3	843,755	1,308,442	-35.5
Other Fish	5,319	9,720	14,770	-34.2	6,809	10,595	-35.7	7,239	9,064	-20.1

**Table 4.-Original and revised 1996-1998 and 1999 Arctic-Yukon-Kuskokwim estimates of participation and harvest.**

	1999	1998		Percent change from original	1997		Percent change from original	1996		Percent change from original
		Revised	Original		Revised	Original		Revised	Original	
<b>Participation</b>										
Anglers	59,406	62,989	50,566	24.6	61,595	66,857	-7.9	46,689	51,463	-9.3
Trips	158,335	142,588	161,902	-11.9	153,149	203,076	-24.6	145,794	180,191	-19.1
Days Fished	304,522	227,841	272,589	-16.4	238,856	311,390	-23.3	201,166	274,566	-26.7
<b>Salmon Species</b>										
Chinook	9,855	12,890	14,286	-9.8	14,971	14,689	1.9	7,077	5,864	20.7
Sea-run Coho	10,189	9,511	11,685	-18.6	11,327	11,979	-5.4	13,871	13,620	1.8
Landlocked Coho/Chinook	8,869	12,091	12,553	-3.7	7,155	7,593	-5.8	13,640	11,818	15.4
Sockeye	12,266	12,891	14,571	-11.5	13,504	13,417	0.6	787	774	1.7
Kokanee	0	0	0		0	0		0	0	
Pink	3,051	7,172	9,290	-22.8	1,533	671	128.5	6,498	5,758	12.9
Chum	1,678	1,876	2,031	-7.6	1,596	1,333	19.7	3,956	3,235	22.3
<b>Other Species</b>										
Steelhead	8	0	0		0	12	-100.0	0	0	
Rainbow Trout	52,578	43,997	44,366	-0.8	37,981	31,740	19.7	49,504	50,986	-2.9
Cutthroat Trout	0	0	0		0	0		0	0	
Brook Trout	0	0	0		0	0		0	0	
Lake Trout	4,131	2,657	2,895	-8.2	3,289	3,005	9.5	1,206	844	42.9
Dolly Varden/Arctic Char	17,915	11,505	11,505	0.0	13,386	9,760	37.2	12,413	10,172	22.0
Arctic Grayling	28,275	30,611	31,209	-1.9	33,968	26,731	27.1	24,991	19,604	27.5
Northern Pike	6,439	6,022	10,046	-40.1	6,114	8,875	-31.1	12,540	9,144	37.1
Whitefish	1,547	2,878	2,878	0.0	2,839	1,725	64.6	832	242	243.8
Burbot	5,530	5,304	5,365	-1.1	8,614	5,075	69.7	3,811	2,129	79.0
Sheefish	1,157	815	1,825	-55.3	1,761	1,979	-11.0	1,502	748	100.8
Smelt	3,046	3,333	3,333	0.0	2,828	127	2126.8	2,573	1,313	96.0
Halibut	268	1,038	1,191	-12.8	169	174	-2.9	341	55	520.0
Rockfish	0	0	0		0	0		0	0	
Lingcod	0	0	0		0	0		0	0	
Razor Clams	0	0	0		0	0		0	0	
Other Fish	2,873	1,180	2,042	-42.2	465	1,588	-70.7	791	1,173	-32.6



estimates and only a minor increase in sport license sales of about 13,500 (Appendix A6). The Sport License file, from which the sample of sportfishing households is selected, was very incomplete when the 1998 sample was selected. Few August sales and a large proportion of July sales were not present on the file at the time of sampling. To help alleviate the impact of this problem on estimates, post-stratification scheme based on date of license sale was used when 1998 estimates were revised. A similar problem existed with the license file for the 1999 study, but a split-sample approach was used to deal with the problem up-front (see Methods). The 1999 split-sample approach was again used in 2000, because the section in charge of capturing license data had not substantially improved file completeness when needed for our study. Thus 2000 estimates may provide additional insight into the questions concerning 1998 estimates of angler-days fished.

Another significant revision in the estimates pertains to Pacific halibut in 1996 and 1997. While the change in statewide estimates was not dramatic (4-5%), correcting errors in processing data for Southeast fishing locations increased 1996-1997 regional estimates 28 and 26%, respectively. While the absolute differences are not appreciably large (around 22,000 fish annually) considering the magnitude of total halibut removal by all user groups, the allocation of Pacific halibut harvest to the sport charter sector has been a "hot" issue in recent years and thus any change could affect future allocations and thus have economic impacts.

The harvest estimates from the 1998 mail survey compared favorably with estimates from onsite creel surveys (Appendix A107). The onsite and mail survey estimates for the salmon fisheries of the Sitka marine boat, Juneau Marine boat, and Situk River were not

significantly different. Onsite survey estimates for the Ketchikan marine boat salmon were biased low because a major access point (Clover Pass) was not sampled (Hubartt, et al 1999). The Gastineau Hatchery Roadside creel survey estimates of coho salmon, pink salmon, and chum salmon harvest were all significantly greater than the corresponding estimates from the annual mail survey (estimates of chinook salmon harvest were not significantly different). In the earlier years of this onsite survey implementation problems resulted in upward biases in harvest. These implementation problems were assumed to have been resolved, however the discrepancy remains. If this discrepancy persists in future years, research might be directed into ascertaining the reason for the difference and correcting any related design or implementation issues (in either the onsite or the mail survey).

The individual post-stratified estimates of chinook salmon harvest for the Kenai River as reported in the comparison table (Appendix A107), were in 3 out of 4 instances significantly different. We suppose that households responding to the mail survey had difficulty recalling exactly when their fishing trips occurred in the Kenai River. Total Kenai River chinook salmon harvest for the onsite survey (6,629) was not significantly different than that obtained by the mail survey (5,394).

Over the past twenty-two years the statewide sport fish survey has proved effectual in economically meeting management needs for estimates of participation and harvest for Alaska's sport fisheries. The survey has been well received by the angling public. Historically the larger fisheries' harvest results have been consistent with onsite creel surveys (Mills and Howe 1992), and sport fish biologists report that statewide survey harvest estimates for areas not creel surveyed are generally in

accordance with their own knowledge and observations.

Thus, in the interest of economic efficiency, the statewide survey has replaced onsite creel surveys in cases where creel surveys are not required for inseason management or ensuring compliance with regulatory and management policies, quotas, and guidelines.

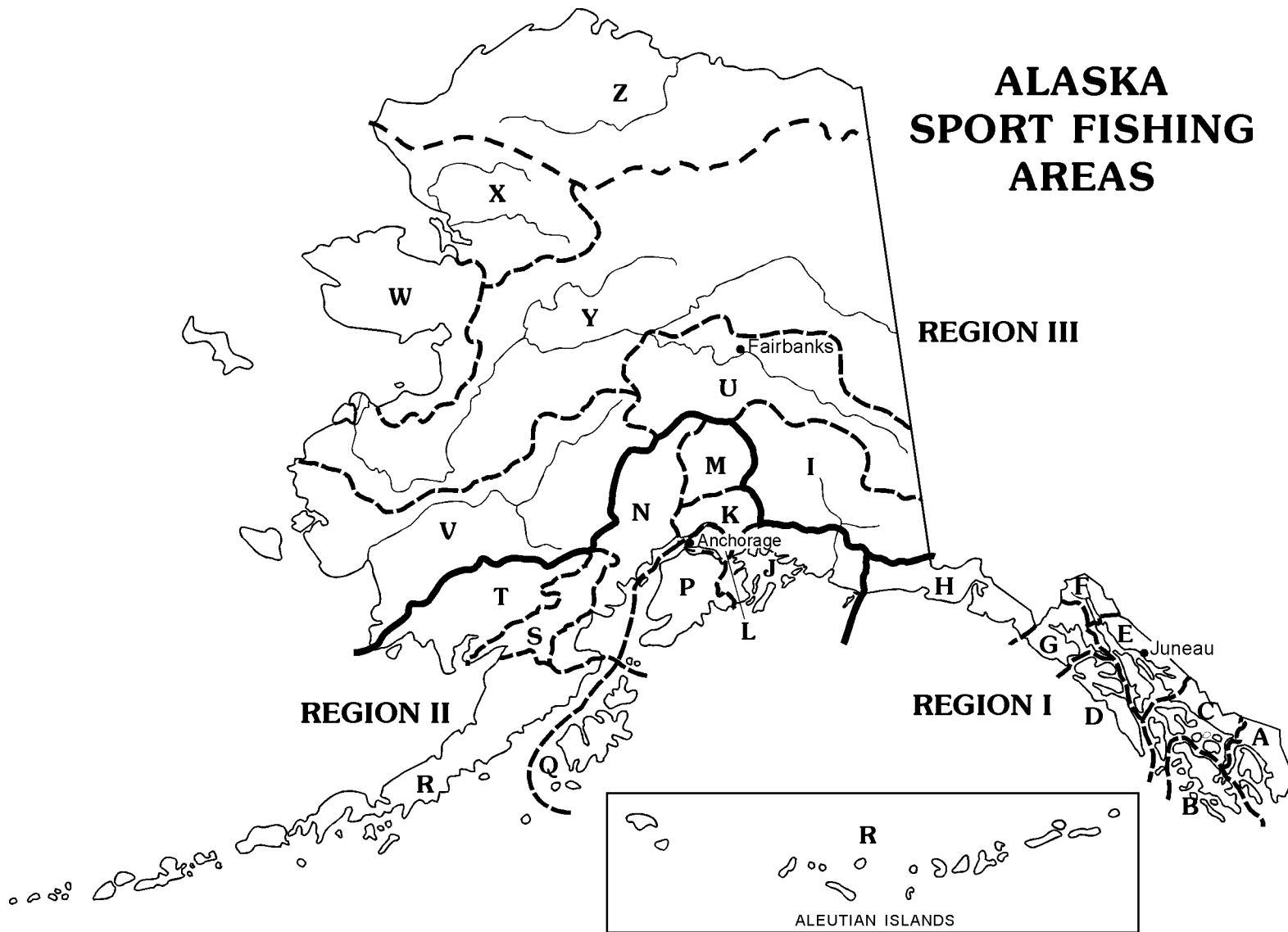
## ACKNOWLEDGMENTS

We thank the many divisional staff who reviewed the revised estimates provided in this report.

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## **APPENDIX A. TABLES AND FIGURES**



Appendix A1.-Map of Alaska sportfishing regions and areas.

## **Appendix A2.-List of Alaska sportfishing regions and areas.**

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### Regions

- I Southeast Alaska
- II Southcentral Alaska
- III Arctic-Yukon-Kuskokwim

### Areas

#### Southeast Alaska

- A Ketchikan
- B Prince of Wales Island
- C Kake, Petersburg, Wrangell, Stikine
- D Sitka
- E Juneau
- F Haines-Skagway
- G Glacier Bay
- H Yakutat

#### Southcentral Alaska

- J Prince William Sound
- K Knik Arm Drainage
- L Anchorage
- M East Susitna River Drainage
- N West Cook Inlet-West Susitna River Drainages
- P Kenai Peninsula
- Q Kodiak
- R Naknek River Drainage-Alaska Peninsula
- S Kvichak River Drainage
- T Nushagak

#### Arctic-Yukon-Kuskokwim

- I Upper Copper/Upper Susitna Drainages
- U Tanana River Drainages
- V Kuskokwim-Goodnews Drainages
- W Seward Peninsula-Norton Sound Drainages
- X Northwest Alaska Drainages
- Y Yukon River Drainages
- Z

### Appendix A3.-List of common names, scientific names, and abbreviations.

Common Name	Scientific Name	Abbreviation
Chinook salmon	<i>Oncorhynchus tshawytscha</i>	KS
Small chinook salmon	<i>Oncorhynchus tshawytscha</i>	KI
Coho salmon	<i>Oncorhynchus kisutch</i>	SS
Landlocked salmon - coho	<i>Oncorhynchus kisutch</i>	LL
Landlocked salmon - chinook	<i>Oncorhynchus tshawytscha</i>	LL
Sockeye salmon	<i>Oncorhynchus nerka</i>	RS
Kokanee salmon	<i>Oncorhynchus nerka</i>	KO
Pink salmon	<i>Oncorhynchus gorbuscha</i>	PS
Chum salmon	<i>Oncorhynchus keta</i>	CS
Steelhead	<i>Oncorhynchus mykiss</i>	SH
Rainbow trout	<i>Oncorhynchus mykiss</i>	RT
Cutthroat trout	<i>Oncorhynchus clarki</i>	CT
Brook trout	<i>Salvelinus fontinalis</i>	BT
Lake trout	<i>Salvelinus namaycush</i>	LT
Dolly Varden	<i>Salvelinus malma</i>	DV
Arctic char	<i>Salvelinus alpinus</i>	AC
Arctic grayling	<i>Thymallus arcticus</i>	GR
Northern pike	<i>Esox lucius</i>	NP
Whitefish	<i>Coregonus</i> spp. and <i>Prosopium</i> spp.	WF
Burbot	<i>Lota lota</i>	BB
Inconnu (Sheefish)	<i>Stenodus leucichthys</i>	SF
Pacific halibut	<i>Hippoglossus stenolepis</i>	HA
Shark	<i>Lamna ditropis</i> (salmon shark), <i>Somniosus pacificus</i> (Pacific sleeper shark), and <i>Squalus acanthias</i> (spiny dogfish) are the most common species caught.	SK
Rockfish	<i>Sebastes</i> spp.	RF
Lingcod	<i>Ophiodon elongatus</i>	LC
Smelt	Osmeridae	SM
Capelin	<i>Mallotus villosus</i>	SM
King crab	<i>Paralithodes camtschatica</i>	KC
Dungeness crab	<i>Cancer magister</i>	DC
Tanner crab	<i>Chionoecetes bairdi</i>	TC
Shrimp	Pandalidae	SHR
Razor clam	<i>Siliqua patula</i>	RCL
Hardshell clams		HCL
Butter clam	<i>Saxidomus giganteus</i>	
Littleneck clam	<i>Protothaca staminea</i>	
Cockle	<i>Clinocardium nuttallii</i>	
Ganer clam	<i>Tresus canax</i>	

**Appendix A4.-Response to the supplementary Alaska sport fish survey mailing, 1998.**

	Mailing 1	Mailing 2	Mailing 3	Cumulative Total
<b>Mailing<sup>a</sup></b>				
Number Mailed	25,000	18,594	15,540	
Number Returned Nondeliverable <sup>b</sup>				1,420
Number not Returned	18,594	15,540	13,974	
<b>Responses</b>				
Number <sup>b</sup>	5,417	2,784	1,405	9,606
Percent of 1st Mailing not Returned as Nondeliverable				40.7%

<sup>a</sup> Resident surveys were mailed 10/23/1998, 1/4/1999, and 3/4/1999.

Nonresident surveys were mailed 11/24/1998, 1/22/1999, and 3/17/1999.

<sup>b</sup> Does not include returns after 4/28/1999. Because there is no proof of questionnaire delivery unless returned by the addressee, all nondeliverables are counted as nondeliverable to the first mailing.

**Appendix A5.-Response to the standard Alaska sport fish survey mailing, 1998.**

	Mailing 1	Mailing 2	Mailing 3	Cumulative Total
<b>Mailing<sup>a</sup></b>				
Number Mailed	22,000	15,514	12,551	
Number Returned Nondeliverable <sup>b</sup>				1,204
Number not Returned	15,514	12,551	11,234	39,299
<b>Responses</b>				
Number <sup>b</sup>	5,643	2,732	1,187	9,562
Percent of 1st Mailing not Returned as Nondeliverable				46.0%

<sup>a</sup> Resident surveys were mailed 10/23/1998, 1/4/1999, and 3/4/1999.

Nonresident surveys were mailed 11/24/1998, 1/22/1999, and 3/17/1999.

<sup>b</sup> Does not include returns after 4/28/1999. Because there is no proof of questionnaire delivery unless returned by the addressee, all nondeliverables are counted as nondeliverable to the first mailing.



**Appendix A6.-Number and percent of Alaska sportfishing licenses by residency, 1961-1998.**

Year	Resident		Nonresident		Total
	Number	Percent	Number	Percent	
1961	41,120	74.0	14,444	26.0	55,564
1962	42,015	74.0	14,783	26.0	56,798
1963	46,160	73.1	16,977	26.9	63,137
1964	45,355	74.5	15,527	25.5	60,882
1965	48,421	71.3	19,483	28.7	67,904
1966	50,287	70.3	21,256	29.7	71,543
1967	50,357	65.4	26,594	34.6	76,951
1968	58,344	64.4	32,221	35.6	90,565
1969	62,546	63.0	36,777	37.0	99,323
1970	71,711	63.2	41,683	36.8	113,394
1971	75,952	65.8	39,543	34.2	115,495
1972	82,088	66.0	42,347	34.0	124,435
1973	89,823	70.2	38,179	29.8	128,002
1974	95,485	70.8	39,415	29.2	134,900
1975	101,900	69.0	45,821	31.0	147,721
1976	118,679	70.7	49,194	29.3	167,873
1977	121,913	68.6	55,821	31.4	177,734
1978	129,750	66.5	65,481	33.5	195,231
1979	130,458	64.4	72,090	35.6	202,548
1980	132,103	63.9	74,699	36.1	206,802
1981	138,784	61.4	87,407	38.6	226,191
1982	156,324	59.8	105,014	40.2	261,338
1983	169,761	62.4	102,481	37.6	272,242
1984	177,949	60.7	115,127	39.3	293,076
1985	176,725	58.2	127,077	41.8	303,802
1986	180,936	57.6	133,051	42.4	313,987
1987	181,721	56.3	140,773	43.7	322,494
1988	177,383	54.0	151,308	46.0	328,691
1989	174,942	51.8	163,098	48.2	338,040
1990	180,214	49.6	182,779	50.4	362,993
1991	184,813	50.5	181,182	49.5	365,995
1992	182,245	46.6	208,516	53.4	390,761
1993	181,843	46.9	205,720	53.1	387,563
1994	183,186	44.6	227,088	55.4	410,274
1995	176,428	42.6	238,021	57.4	414,449
1996	180,747	42.6	243,731	57.4	424,478
1997	180,029	41.7	251,865	58.3	431,894
1998	173,833	40.6	254,494	59.4	428,327

**Appendix A7.-Statewide and regional participation in Alaska sport fishing  
by residency, 1993-1998.**

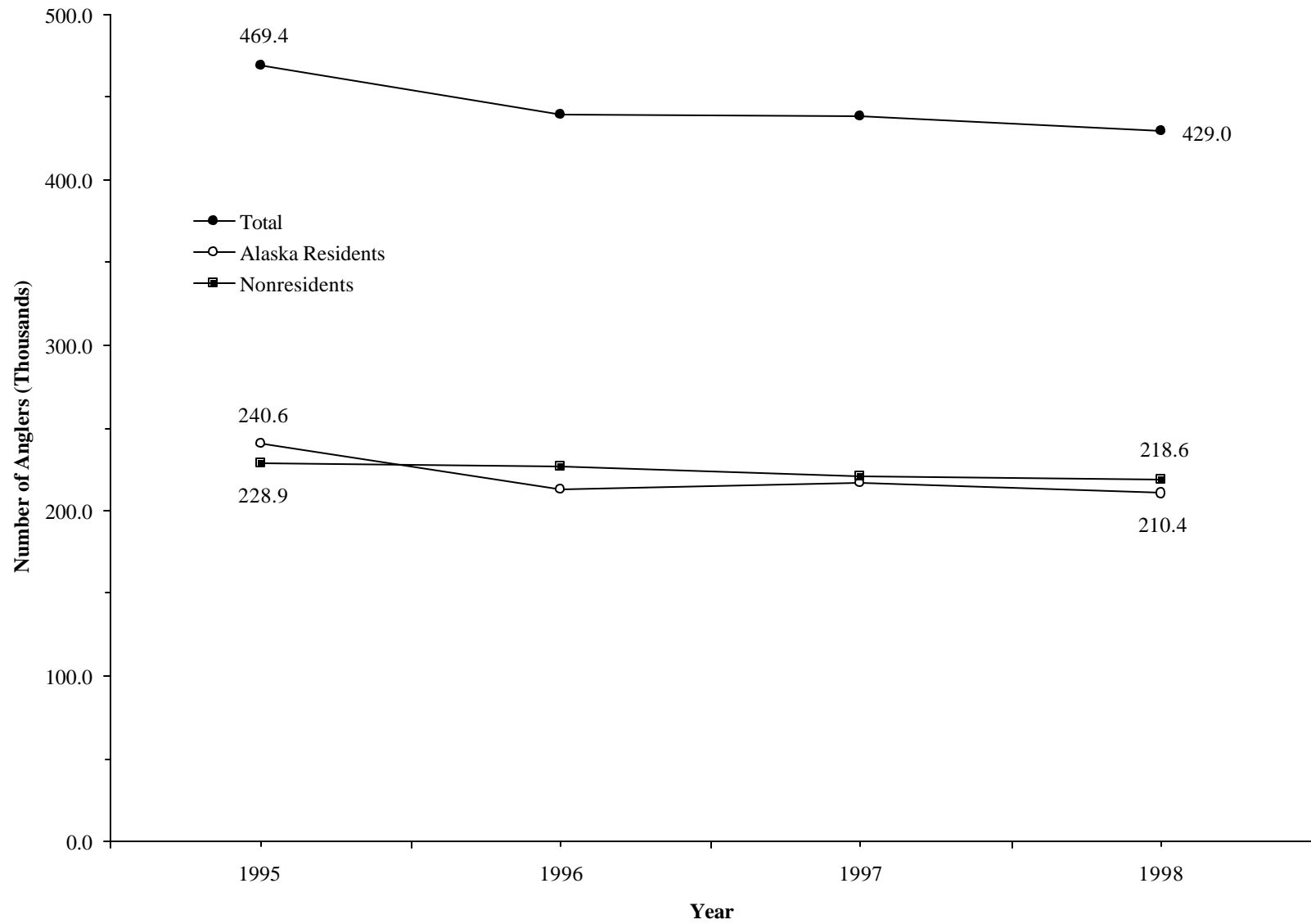
Region	1993				1994				Total	
	Residents of Alaska		Nonresidents of Alaska		Residents of Alaska		Nonresidents of Alaska			
	Number	Percent	Number	Percent	Number	Percent	Number	Percent		
<b>Anglers</b>										
SE <sup>a</sup>	35,320	36.6	61,152	63.4	96,472	36,041	31.5	78,198	68.5	114,239
SC <sup>b</sup>	194,313	59.5	132,405	40.5	326,718	194,207	57.6	142,665	42.4	336,872
AYK <sup>c</sup>	33,802	76.8	10,202	23.2	44,004	33,102	78.0	9,346	22.0	42,448
TOTAL	237,452	55.7	189,062	44.3	426,514	241,438	52.5	218,766	47.5	460,204
<b>Days Fished</b>										
SE <sup>a</sup>	258,612	54.9	212,591	45.1	471,203	259,109	47.7	283,830	52.3	542,939
SC <sup>b</sup>	1,301,56	69.7	565,666	30.3	1,867,233	1,318,82	67.0	648,160	33.0	1,966,985
AYK <sup>c</sup>	187,973	85.1	32,999	14.9	220,972	176,627	84.1	33,360	15.9	209,987
TOTAL	1,748,15	68.3	811,256	31.7	2,559,408	1,754,56	64.5	965,350	35.5	2,719,911
Region	1995				1996				Total	
	Residents of Alaska		Nonresidents of Alaska		Residents of Alaska		Nonresidents of Alaska			
	Number	Percent	Number	Percent	Number	Percent	Number	Percent		
<b>Anglers</b>										
SE <sup>a</sup>	36,001	33.3	71,958	66.7	107,959	30,390	28.7	75,457	71.3	105,847
SC <sup>b</sup>	187,452	54.7	155,374	45.3	342,826	167,553	52.7	150,364	47.3	317,917
AYK <sup>c</sup>	41,181	76.0	13,003	24.0	54,184	34,150	73.1	12,539	26.9	46,689
TOTAL	240,566	51.2	228,870	48.8	469,436	212,510	48.3	227,141	51.7	439,651
<b>Days Fished</b>										
SE <sup>a</sup>	271,069	51.0	260,921	49.0	531,990	193,035	52.1	177,384	47.9	370,419
SC <sup>b</sup>	1,308,12	65.9	677,413	34.1	1,985,539	966,155	67.3	468,788	32.7	1,434,943
AYK <sup>c</sup>	222,720	82.4	47,421	17.6	270,141	168,259	83.6	32,907	16.4	201,166
TOTAL	1,801,91	64.6	985,755	35.4	2,787,670	1,327,44	66.2	679,079	33.8	2,006,528
Region	1997				1998				Total	
	Residents of Alaska		Nonresidents of Alaska		Residents of Alaska		Nonresidents of Alaska			
	Number	Percent	Number	Percent	Number	Percent	Number	Percent		
<b>Anglers</b>										
SE <sup>a</sup>	35,998	32.6	74,397	67.4	110,395	32,207	30.2	74,418	69.8	106,625
SC <sup>bd</sup>	164,883	53.8	141,736	46.2	306,619	159,216	53.3	139,297	46.7	298,513
AYK <sup>cd</sup>	43,325	70.3	18,270	29.7	61,595	42,716	67.8	20,273	32.2	62,989
TOTAL	217,379	49.6	220,738	50.4	438,117	210,364	49.0	218,627	51.0	428,991
<b>Days Fished</b>										
SE <sup>a</sup>	222,151	50.5	217,524	49.5	439,675	196,445	53.0	174,208	47.0	370,653
SC <sup>bd</sup>	912,926	65.2	488,057	34.8	1,400,983	836,413	66.5	422,069	33.5	1,258,482
AYK <sup>cd</sup>	181,320	75.9	57,536	24.1	238,856	174,268	76.5	53,573	23.5	227,841
TOTAL	1,316,39	63.3	763,117	36.7	2,079,514	1,207,12	65.0	649,850	35.0	1,856,976

a Southeast

b Southcentral

c Arctic-Yukon-Kuskokwim

d Upper Copper/Upper Susitna Drainages estimates are included under the Arctic-Yukon-Kuskokwim Region starting in 1997 to reflect the shift in management responsibilities. Prior to 1997 Upper Copper/Upper Susitna Drainages estimates are included under Southcentral Region.



**Appendix A8.-Anglers who sport fished in Alaska by area of residence, 1995-1998.**

**Appendix A9.-Number of anglers who sport fished in Alaska by area of residence, 1984-1998.**

	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998
<b>Alaska</b>															
Southeast	34,252	35,267	36,426	37,297	36,798	37,435	38,851	35,389	35,837	33,132	32,646	33,122	26,027	29,853	26,780
Upper Copper-Susitna River	1,353	1,470	1,539	1,622	1,701	1,320	1,528	1,490	1,589	1,339	1,204	1,659	1,238	1,755	1,613
Prince William Sound	3,632	4,149	4,313	4,558	4,248	3,731	4,237	3,836	3,944	4,177	3,857	4,184	3,868	4,013	4,019
Kenai Peninsula	21,693	21,332	22,058	24,025	24,180	24,211	24,316	24,869	24,402	24,646	29,457	28,857	23,369	25,694	25,436
West Cook Inlet-Lower Susitna Drainage	125,464	129,335	133,715	135,476	134,465	124,257	126,049	131,266	127,214	122,916	129,818	118,700	106,151	108,091	101,646
Kodiak	6,995	7,509	7,767	8,342	7,005	7,110	8,711	7,792	6,957	6,854	6,629	5,420	5,812	6,067	7,321
Bristol Bay	2,518	3,115	3,356	2,922	3,233	3,825	4,133	5,735	5,131	4,847	2,628	3,208	2,681	1,907	2,200
Arctic-Yukon-Kuskokwim	41,474	38,958	40,455	39,961	38,656	39,722	43,247	41,739	41,034	39,541	35,199	45,416	37,852	33,564	34,939
Unknown Alaska													5,512	6,435	6,410
Total Residents	237,381	241,135	249,629	254,203	250,286	241,611	251,072	252,116	246,108	237,452	241,438	240,566	212,510	217,379	210,364
Percent	70.7%	69.1%	69.5%	68.6%	66.4%	61.7%	59.1%	59.3%	57.4%	55.7%	52.5%	51.2%	48.3%	49.6%	49.0%
<b>Other Than Alaska</b>															
Other United States	88,784	98,262	100,120	105,380	118,372	136,573	160,265	158,182	168,741	172,700	202,318	211,728	212,022	205,624	205,040
Foreign	9,443	9,370	9,634	10,755	8,346	13,124	13,536	14,727	13,919	16,362	16,448	17,142	15,119	15,114	13,587
Total Nonresidents	98,227	107,632	109,754	116,135	126,718	149,697	173,801	172,909	182,660	189,062	218,766	228,870	227,141	220,738	218,627
Percent	29.3%	30.9%	30.5%	31.4%	33.6%	38.3%	40.9%	40.7%	42.6%	44.3%	47.5%	48.8%	51.7%	50.4%	51.0%
<b>TOTAL</b>	<b>335,608</b>	<b>348,767</b>	<b>359,383</b>	<b>370,338</b>	<b>377,004</b>	<b>391,308</b>	<b>424,873</b>	<b>425,025</b>	<b>428,768</b>	<b>426,514</b>	<b>460,204</b>	<b>469,436</b>	<b>439,651</b>	<b>438,117</b>	<b>428,991</b>

### Appendix A10.-Number of anglers by Alaska region and area fished, 1988-1998.

Area Fished	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998
<b>Southeast</b>											
Ketchikan	21,306	19,810	26,158	21,854	22,711	20,464	27,090	22,738	24,000	23,914	22,441
Prince of Wales Island	5,787	8,873	10,498	9,634	10,446	14,355	16,134	14,643	14,292	12,871	12,667
Kake, Petersburg, Wrangell, Stikine	9,022	9,753	12,452	9,830	12,241	10,238	13,166	10,368	9,330	9,575	8,623
Sitka	12,171	12,506	16,706	18,567	21,465	20,931	28,922	26,362	23,930	26,467	30,096
Juneau	22,586	26,280	26,830	28,415	30,315	25,749	27,617	30,316	28,160	29,708	26,487
Haines-Skagway	10,798	8,680	13,720	8,615	4,861	8,754	7,072	7,713	7,410	7,504	6,682
Glacier Bay	2,444	3,548	3,069	4,929	4,113	5,184	5,110	6,961	5,417	7,028	5,188
Yakutat	3,496	3,068	3,440	3,206	3,552	3,588	4,590	4,560	5,403	6,613	6,118
Total <sup>a</sup>	80,599	82,111	101,499	92,914	97,451	96,472	114,239	107,959	105,847	110,395	106,625
<b>Southcentral</b>											
Upper Copper/Upper Susitna Drainages	31,590	24,535	26,302	28,373	26,276	29,312	28,323	30,056	27,620		
Prince William Sound	30,383	26,238	37,464	37,380	33,817	33,600	37,147	46,435	37,930	41,268	40,525
Knik Arm Drainage	60,735	51,951	50,887	50,186	48,065	40,797	43,576	36,604	32,404	32,375	29,377
Anchorage	33,817	32,286	32,976	31,612	37,993	35,307	35,098	35,948	35,897	33,309	31,278
East Susitna River Drainage	52,196	46,833	47,998	47,561	57,762	50,615	44,448	39,094	37,480	38,871	38,827
West Cook Inlet-West Susitna River Drainages	41,862	39,187	41,005	41,440	39,564	40,641	39,463	27,235	25,544	25,874	27,025
Kenai Peninsula	192,292	197,352	209,376	210,295	210,021	219,913	229,030	231,923	214,502	207,377	196,258
Kodiak	12,345	12,849	13,714	13,994	13,362	15,323	16,906	14,693	13,748	14,882	16,175
Naknek River Drainage-Alaska Peninsula	7,797	8,313	10,896	11,521	10,446	9,160	8,355	10,394	7,861	8,943	8,974
Kvichak River Drainage	3,558	6,190	6,931	9,287	8,588	10,075	8,635	10,472	8,051	8,106	8,061
Nushagak	3,868	4,833	5,312	6,921	5,771	6,097	8,160	7,925	8,411	6,954	8,270
Total <sup>ab</sup>	285,360	292,524	309,770	318,864	319,350	326,718	336,872	342,826	317,917	306,619	298,513
<b>Arctic-Yukon-Kuskokwim</b>											
Upper Copper/Upper Susitna Drainages										24,893	26,044
Tanana River Drainages	36,911	38,731	38,031	34,672	31,586	33,343	32,334	41,654	35,362	31,612	31,129
Kuskokwim-Goodnews Drainages	3,310	3,688	2,691	3,146	3,041	3,257	3,948	3,699	4,308	5,693	5,721
Seward Peninsula-Norton Sound Drainages	3,001	3,052	3,233	3,776	3,540	3,134	3,016	3,719	2,958	2,773	3,206
Northwest Alaska Drainages	990	1,063	1,008	1,795	1,421	1,575	1,100	1,957	1,407	824	1,089
Yukon River Drainages	3,063	3,989	4,162	4,047	4,313	3,800	3,714	5,477	3,877	3,867	3,841
North Slope Brooks Range Drainages	1,052	1,423	1,158	1,556	1,758	1,362	1,253	1,612	1,259	1,308	1,300
Total <sup>ab</sup>	45,606	48,705	47,799	46,426	42,592	44,004	42,448	54,184	46,689	61,595	62,989
<b>Alaska Total<sup>a</sup></b>	<b>377,004</b>	<b>391,308</b>	<b>424,873</b>	<b>425,025</b>	<b>428,768</b>	<b>426,514</b>	<b>460,204</b>	<b>469,436</b>	<b>439,651</b>	<b>438,117</b>	<b>428,991</b>

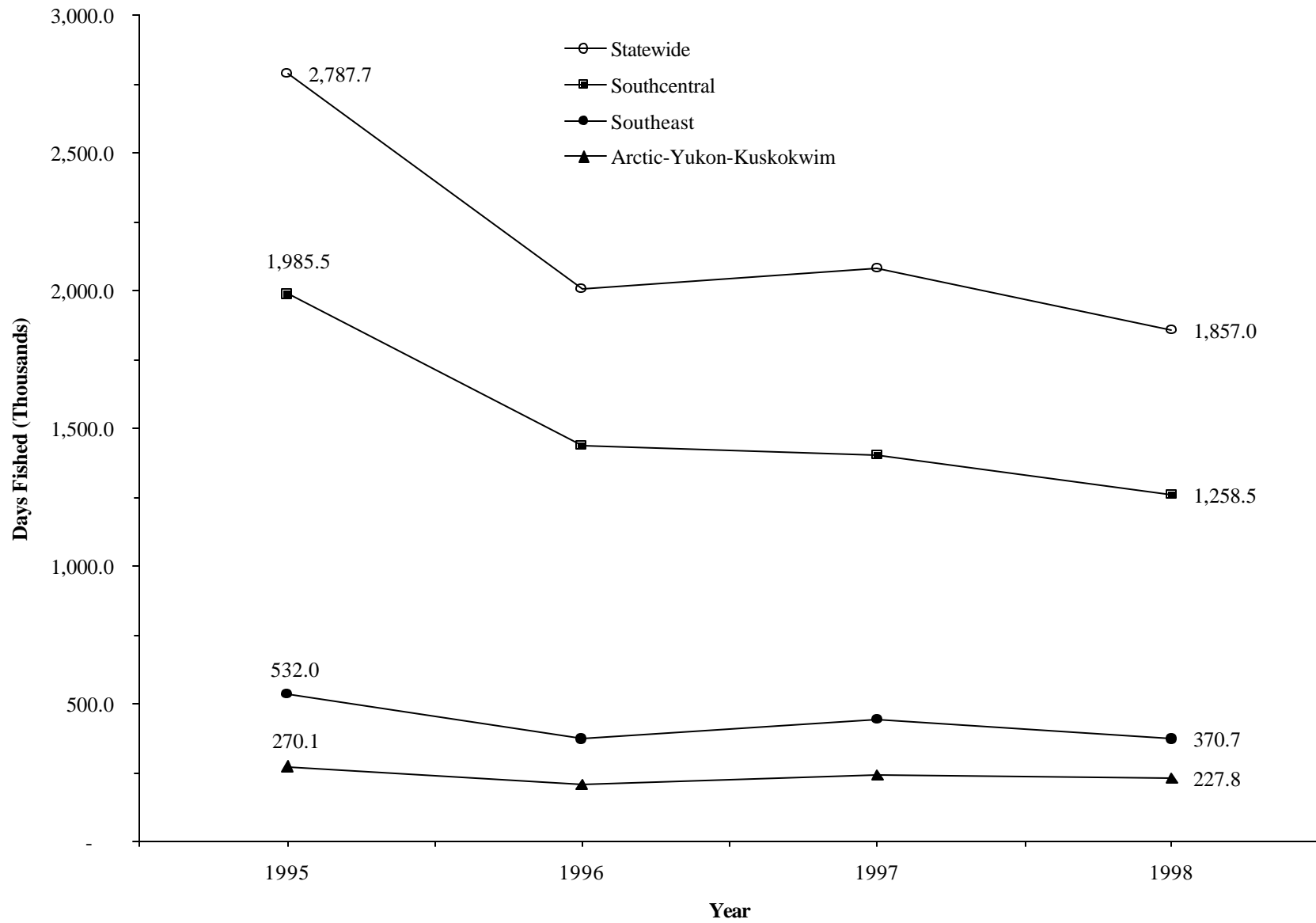
<sup>a</sup> Statewide and regional angler totals do not equal regional or area sums because some anglers fished in more than one area and in more than one region.

<sup>b</sup> Upper Copper/Upper Susitna Drainages estimates are included under the Arctic-Yukon-Kuskokwim Region starting in 1997 to reflect the shift in management responsibilities.

**Appendix A11.-Number of Alaska sport fishing trips by region and area, 1988-1998.**

Area Fished	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998
<b>Southeast</b>											
Ketchikan	79,032	60,937	71,338	57,043	61,790	55,221	66,096	54,160	48,600	45,027	37,199
Prince of Wales Island	24,505	33,555	36,648	29,452	30,655	39,226	45,242	38,605	30,498	36,413	34,857
Kake, Petersburg, Wrangell, Stikine	33,610	34,154	50,101	33,879	44,836	35,267	44,823	37,723	25,259	25,930	22,294
Sitka	40,140	48,841	50,453	48,282	61,044	58,500	73,231	67,050	44,863	58,286	49,263
Juneau	98,490	100,382	93,184	91,035	122,282	97,322	108,370	116,579	77,493	82,392	71,969
Haines-Skagway	33,017	28,128	41,182	24,269	20,925	27,428	21,799	23,567	17,710	20,607	12,144
Glacier Bay	8,571	6,635	5,826	14,140	10,778	11,034	11,189	16,151	10,101	14,694	8,966
Yakutat	10,985	8,038	8,208	9,476	9,722	11,995	12,932	12,286	12,046	18,815	13,591
<b>Total</b>	<b>328,350</b>	<b>320,670</b>	<b>356,940</b>	<b>307,576</b>	<b>362,032</b>	<b>335,993</b>	<b>383,682</b>	<b>366,121</b>	<b>266,570</b>	<b>302,164</b>	<b>250,283</b>
<b>Southcentral</b>											
Upper Copper/Upper Susitna Drainages	34,071	36,765	32,760	39,559	39,600	47,561	48,612	56,001	35,056		
Prince William Sound	64,486	59,777	76,491	70,309	71,914	66,463	77,485	82,498	61,661	60,511	53,715
Knik Arm Drainage	161,172	127,650	121,973	114,089	110,233	93,841	111,100	96,517	68,913	71,018	58,386
Anchorage	120,108	102,826	118,977	103,157	132,220	133,643	129,932	158,523	111,809	114,997	104,585
East Susitna River Drainage	94,709	77,813	85,044	80,540	111,536	97,101	83,354	70,847	58,791	56,811	60,433
West Cook Inlet-West Susitna River Drainages	70,920	72,349	67,789	65,589	66,737	68,174	71,826	48,126	34,871	36,962	31,332
Kenai Peninsula	727,254	631,869	696,988	616,247	684,519	660,941	712,711	715,186	502,639	492,626	408,010
Kodiak	67,642	74,170	69,821	70,115	64,700	69,747	68,928	62,140	54,082	54,199	56,699
Naknek River Drainage-Alaska Peninsula	50,125	35,393	54,401	51,239	41,209	33,273	30,148	31,962	24,399	27,217	22,706
Kvichak River Drainage	7,954	12,034	16,983	18,912	18,308	23,726	21,692	21,042	14,439	16,997	14,046
Nushagak	8,108	10,335	13,034	17,000	15,080	17,548	21,145	20,954	16,165	16,311	17,036
<b>Total<sup>a</sup></b>	<b>1,406,54</b>	<b>1,240,98</b>	<b>1,354,26</b>	<b>1,246,75</b>	<b>1,356,05</b>	<b>1,312,01</b>	<b>1,376,93</b>	<b>1,363,79</b>	<b>982,825</b>	<b>947,649</b>	<b>826,948</b>
<b>Arctic-Yukon-Kuskokwim</b>											
Upper Copper/Upper Susitna Drainages										30,951	30,528
Tanana River Drainages	150,869	135,400	131,831	113,247	94,265	126,733	118,052	154,458	117,911	91,122	81,335
Kuskokwim-Goodnews Drainages	6,035	7,946	5,263	6,731	6,078	6,046	6,865	7,175	6,365	10,462	13,695
Seward Peninsula-Norton Sound Drainages	14,078	13,289	12,986	18,091	14,843	14,044	12,798	14,677	11,240	9,678	8,171
Northwest Alaska Drainages	3,713	2,124	1,464	3,741	3,361	3,279	3,221	5,423	2,477	1,876	1,677
Yukon River Drainages	6,596	7,640	9,487	6,332	7,604	7,911	6,789	10,942	4,801	6,028	5,114
North Slope Brooks Range Drainages	3,096	3,152	2,521	4,084	3,783	3,395	4,308	3,549	3,000	3,032	2,068
<b>Total<sup>a</sup></b>	<b>184,387</b>	<b>169,551</b>	<b>163,552</b>	<b>152,226</b>	<b>129,934</b>	<b>161,408</b>	<b>152,033</b>	<b>196,224</b>	<b>145,794</b>	<b>153,149</b>	<b>142,588</b>
<b>Alaska Total</b>	<b>1,919,28</b>	<b>1,731,20</b>	<b>1,874,75</b>	<b>1,706,55</b>	<b>1,848,02</b>	<b>1,809,41</b>	<b>1,912,64</b>	<b>1,926,14</b>	<b>1,395,18</b>	<b>1,402,96</b>	<b>1,219,81</b>

<sup>a</sup> Upper Copper/Upper Susitna Drainages estimates are included under the Arctic-Yukon-Kuskokwim Region starting in 1997 to reflect the shift in management responsibilities.



Appendix A12.-Angler-days fished in Alaska, statewide and by region, 1995-1998.

**Appendix A13.-Number of angler-days fished in Alaska and percentage by region and area, 1988-1998.**

Area Fished	1988		1989		1990		1991		1992		1993	
	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent
<b>Southeast</b>												
Ketchikan	98,166	4.2	92,647	4.1	91,127	3.7	98,284	4.0	84,482	3.3	77,145	3.0
Prince of Wales Island	35,571	1.5	50,659	2.2	50,214	2.0	47,297	1.9	44,470	1.8	62,544	2.4
Kake, Petersburg, Wrangell, Stikine	39,004	1.7	53,955	2.4	59,965	2.4	48,013	2.0	56,306	2.2	47,382	1.9
Sitka	48,680	2.1	59,230	2.6	61,906	2.5	68,193	2.8	78,281	3.1	74,944	2.9
Juneau	108,860	4.7	115,360	5.1	122,045	5.0	113,913	4.6	149,382	5.9	133,896	5.2
Haines-Skagway	40,169	1.7	48,018	2.1	56,746	2.3	39,624	1.6	25,896	1.0	41,655	1.6
Glacier Bay	9,276	0.4	8,895	0.4	7,857	0.3	21,965	0.9	15,279	0.6	15,054	0.6
Yakutat	18,067	0.8	12,142	0.5	12,685	0.5	17,062	0.7	14,496	0.6	18,583	0.7
Total	397,793	17.2	440,906	19.5	462,545	18.9	454,351	18.5	468,592	18.4	471,203	18.4
<b>Southcentral</b>												
Upper Copper/Upper Susitna Drainages	45,867	2.0	52,262	2.3	50,791	2.1	64,207	2.6	72,052	2.8	77,870	3.0
Prince William Sound	84,971	3.7	95,295	4.2	105,739	4.3	113,115	4.6	113,443	4.5	104,601	4.1
Knik Arm Drainage	183,029	7.9	146,912	6.5	142,884	5.8	146,605	6.0	141,825	5.6	118,214	4.6
Anchorage	114,823	5.0	107,613	4.8	125,849	5.1	117,780	4.8	141,571	5.6	143,492	5.6
East Susitna River Drainage	107,977	4.7	96,864	4.3	101,917	4.2	113,178	4.6	149,484	5.9	128,382	5.0
West Cook Inlet-W Susitna River	111,585	4.8	115,054	5.1	110,927	4.5	121,505	4.9	116,360	4.6	129,165	5.0
Kenai Peninsula	878,292	38.0	799,409	35.3	896,360	36.5	869,715	35.4	945,272	37.2	946,252	37.0
Kodiak	69,325	3.0	86,342	3.8	81,603	3.3	96,481	3.9	84,777	3.3	93,320	3.6
Naknek River Drainage-Alaska Peninsula	52,505	2.3	45,114	2.0	67,192	2.7	69,010	2.8	61,415	2.4	51,132	2.0
Kvichak River Drainage	10,788	0.5	17,854	0.8	30,857	1.3	28,553	1.2	34,876	1.4	41,697	1.6
Nushagak	20,777	0.9	20,828	0.9	30,991	1.3	41,906	1.7	28,855	1.1	33,108	1.3
Total <sup>a</sup>	1,679,939	72.7	1,583,547	69.9	1,745,110	71.1	1,782,055	72.5	1,889,930	74.4	1,867,233	73.0
<b>Arctic-Yukon-Kuskokwim</b>												
Upper Copper/Upper Susitna Drainages												
Tanana River Drainages	173,706	7.5	185,715	8.2	184,887	7.5	155,662	6.3	120,848	4.8	160,117	6.3
Kuskokwim-Goodnews Drainages	23,494	1.0	16,457	0.7	15,858	0.6	13,055	0.5	14,404	0.6	14,505	0.6
Seward Peninsula-Norton Sound Drainages	20,278	0.9	17,692	0.8	21,799	0.9	23,622	1.0	22,684	0.9	18,930	0.7
Northwest Alaska Drainages	5,279	0.2	4,932	0.2	3,782	0.2	9,543	0.4	6,145	0.2	7,809	0.3
Yukon River Drainages	8,261	0.4	10,712	0.5	15,539	0.6	10,749	0.4	12,831	0.5	14,011	0.5
North Slope Brooks Range Drainages	2,541	0.1	4,118	0.2	3,764	0.2	7,291	0.3	4,940	0.2	5,600	0.2
Total <sup>a</sup>	233,559	10.1	239,626	10.6	245,629	10.0	219,922	9.0	181,852	7.2	220,972	8.6
<b>Alaska Total</b>	<b>2,311,291</b>	<b>100.0</b>	<b>2,264,079</b>	<b>100.0</b>	<b>2,453,284</b>	<b>100.0</b>	<b>2,456,328</b>	<b>100.0</b>	<b>2,540,374</b>	<b>100.0</b>	<b>2,559,408</b>	<b>100.0</b>

-continued-



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Area Fished	1994		1995		1996		1997		1998	
	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent
<b>Southeast</b>										
Ketchikan	90,363	3.3	76,580	2.7	71,526	3.6	68,203	3.3	55,938	3.0
Prince of Wales Island	69,572	2.6	60,552	2.2	44,795	2.2	52,497	2.5	48,634	2.6
Kake, Petersburg, Wrangell, Stikine	63,584	2.3	52,755	1.9	32,718	1.6	37,994	1.8	32,637	1.8
Sitka	107,993	4.0	101,138	3.6	64,982	3.2	88,565	4.3	77,434	4.2
Juneau	137,856	5.1	161,241	5.8	96,907	4.8	109,718	5.3	97,209	5.2
Haines-Skagway	32,592	1.2	34,484	1.2	25,152	1.3	29,645	1.4	19,413	1.0
Glacier Bay	18,219	0.7	25,314	0.9	14,436	0.7	23,170	1.1	14,258	0.8
Yakutat	22,760	0.8	19,926	0.7	19,903	1.0	29,883	1.4	25,130	1.4
Total	542,939	20.0	531,990	19.1	370,419	18.5	439,675	21.1	370,653	20.0
<b>Southcentral</b>										
Upper Copper/Upper Susitna Drainages	85,520	3.1	102,951	3.7	64,407	3.2				
Prince William Sound	122,330	4.5	138,194	5.0	97,448	4.9	101,079	4.9	92,503	5.0
Knik Arm Drainage	143,372	5.3	126,154	4.5	90,990	4.5	95,730	4.6	78,218	4.2
Anchorage	142,277	5.2	176,401	6.3	126,325	6.3	139,549	6.7	125,513	6.8
East Susitna River Drainage	114,533	4.2	102,686	3.7	83,227	4.1	85,228	4.1	89,014	4.8
West Cook Inlet-W Susitna River	125,529	4.6	79,134	2.8	58,940	2.9	65,145	3.1	57,531	3.1
Kenai Peninsula	1,003,847	36.9	1,043,493	37.4	738,712	36.8	732,938	35.2	638,161	34.4
Kodiak	99,132	3.6	85,529	3.1	76,879	3.8	78,355	3.8	78,688	4.2
Naknek River Drainage-Alaska Peninsula	45,920	1.7	44,119	1.6	34,216	1.7	40,551	2.0	34,748	1.9
Kvichak River Drainage	39,141	1.4	44,463	1.6	26,578	1.3	32,205	1.5	28,042	1.5
Nushagak	45,384	1.7	42,415	1.5	37,221	1.9	30,203	1.5	36,064	1.9
Total <sup>a</sup>	1,966,985	72.3	1,985,539	71.2	1,434,943	71.5	1,400,983	67.4	1,258,482	67.8
<b>Arctic-Yukon-Kuskokwim</b>										
Upper Copper/Upper Susitna Drainages							56,257	2.7	56,706	3.1
Tanana River Drainages	148,633	5.5	201,389	7.2	150,227	7.5	119,699	5.8	112,025	6.0
Kuskokwim-Goodnews Drainages	18,117	0.7	16,289	0.6	16,420	0.8	27,318	1.3	27,913	1.5
Seward Peninsula-Norton Sound Drainages	18,922	0.7	19,647	0.7	13,783	0.7	13,850	0.7	13,616	0.7
Northwest Alaska Drainages	6,036	0.2	8,495	0.3	5,571	0.3	3,729	0.2	3,801	0.2
Yukon River Drainages	12,872	0.5	18,677	0.7	10,678	0.5	12,725	0.6	10,127	0.5
North Slope Brooks Range Drainages	5,407	0.2	5,644	0.2	4,487	0.2	5,278	0.3	3,653	0.2
Total <sup>a</sup>	209,987	7.7	270,141	9.7	201,166	10.0	238,856	11.5	227,841	12.3
<b>Alaska Total</b>	<b>2,719,911</b>	<b>100.0</b>	<b>2,787,670</b>	<b>100.0</b>	<b>2,006,528</b>	<b>100.0</b>	<b>2,079,514</b>	<b>100.0</b>	<b>1,856,976</b>	<b>100.0</b>

<sup>a</sup> Upper Copper/Upper Susitna Drainages estimates are included under the Arctic-Yukon-Kuskokwim Region starting in 1997 to reflect the shift in management responsibilities.

**Appendix A14.-Alaska sport fish harvest by species, 1988-1998, and catch by species, 1998.**

Species	Harvest										Catch	
	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1998
<b>SALMON SPECIES:</b>												
Chinook	134,452	122,737	123,908	150,420	153,919	210,833	176,870	156,507	163,569	185,175	144,098	398,082
Sea-run Coho	281,450	338,195	325,936	389,569	345,513	412,487	502,127	368,631	555,196	444,525	501,935	781,930
Landlocked Coho/Chinook	57,679	46,697	37,831	51,799	46,843	54,182	41,744	22,326	54,442	31,678	34,767	82,006
Sockeye	291,067	436,871	239,118	327,047	372,752	283,661	251,605	237,230	319,174	318,839	339,385	599,739
Kokanee	2,461	2,727	2,071	6,276	2,478	4,203	747	209	76	202	638	1,654
Pink	156,759	164,778	205,602	151,316	149,372	124,582	144,140	122,314	167,804	111,671	145,589	634,887
Chum	44,029	34,647	14,525	18,209	17,299	20,519	21,877	26,646	38,565	31,348	33,725	202,258
<b>OTHER SPECIES:</b>												
Steelhead	6,288	6,387	5,645	5,109	3,149	3,818	2,346	1,037	412	334	390	20,399
Rainbow Trout	241,831	209,961	191,809	205,642	139,973	136,681	112,261	112,681	133,229	127,661	102,403	657,316
Cutthroat Trout	16,936	20,372	16,183	10,088	13,972	16,291	7,088	4,669	5,653	4,569	5,569	48,208
Brook Trout	1,273	887	450	477	1,026	762	481	274	223	167	10	3,445
Lake Trout	17,193	17,070	12,602	13,772	12,525	13,094	11,374	8,412	9,086	7,486	5,985	22,807
Dolly Varden/Arctic Char	150,502	136,127	132,553	142,594	97,071	100,428	73,533	69,657	89,089	81,576	70,864	507,567
Arctic Grayling	116,379	105,469	64,814	82,831	45,073	49,740	63,443	46,168	46,943	45,844	38,445	522,234
Northern Pike	23,440	21,659	15,985	29,611	18,616	19,366	25,558	19,006	23,043	16,603	15,617	78,752
Whitefish	20,312	24,337	15,595	6,828	6,738	4,223	4,454	2,863	2,047	4,223	4,352	11,314
Burbot	9,478	9,268	10,577	4,882	7,245	9,858	10,868	7,128	5,841	12,189	6,882	10,562
Sheefish	3,221	2,306	750	2,256	2,933	1,619	1,511	2,200	1,502	1,761	815	3,303
Smelt	210,145	207,826	194,068	111,834	148,540	61,495	106,127	52,905	60,867	77,491	80,329	85,067
Halibut	225,106	229,016	247,202	266,523	264,943	313,147	329,046	325,188	350,220	380,256	350,464	640,706
Shark	0	0	0	0	0	0	0	0	127	1,391	609	11,871
Rockfish	128,121	86,776	62,572	67,263	86,523	82,625	98,971	75,613	79,050	88,220	87,458	205,209
Lingcod	0	0	0	23,049	28,894	22,857	27,878	20,192	24,362	28,305	25,312	46,345
Pacific Cod	0	0	0	0	0	0	0	0	1,911	8,469	5,252	26,354
Razor Clams	1,261,819	917,963	1,037,941	1,207,520	1,237,140	1,011,959	1,317,675	1,199,945	843,983	850,003	660,219	708,466
Other Fish	83,365	71,791	75,564	36,598	31,511	31,290	18,612	28,178	11,610	13,034	17,008	46,026
<b>Total</b>	<b>3,483,306</b>	<b>3,213,867</b>	<b>3,033,301</b>	<b>3,311,513</b>	<b>3,234,048</b>	<b>2,989,720</b>	<b>3,350,336</b>	<b>2,909,979</b>	<b>2,988,024</b>	<b>2,873,020</b>	<b>2,678,120</b>	<b>6,356,507</b>

**Appendix A15.-Alaska saltwater sport fish harvest by species, 1988-1998, and catch by species, 1998.**

Species	Harvest											Catch
	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1998
<b>SALMON SPECIES:</b>												
Chinook	44,647	44,366	63,997	73,662	62,290	82,064	67,325	74,945	78,838	97,093	73,564	141,029
Sea-run Coho	77,498	129,884	165,104	176,056	146,620	195,361	260,314	186,635	334,271	303,340	299,371	402,967
Landlocked Coho/Chinook	0	0	0	0	0	0	0	0	0	0	0	0
Sockeye	11,475	18,131	11,216	12,460	17,047	20,340	16,176	16,237	15,423	17,124	21,995	34,809
Kokanee	0	0	0	0	0	0	0	0	0	0	0	0
Pink	88,440	124,537	126,946	119,591	94,213	98,419	111,366	99,111	117,702	85,420	97,509	254,968
Chum	19,403	13,134	6,287	7,378	7,759	12,170	13,121	12,676	23,342	20,748	23,839	59,720
<b>OTHER SPECIES:</b>												
Steelhead	2,006	2,125	1,420	1,058	1,083	923	512	38	99	15	125	453
Rainbow Trout	0	0	0	0	0	0	0	0	0	0	0	0
Cutthroat Trout	1,962	1,897	1,128	1,410	2,259	2,662	1,518	581	894	798	1,107	3,898
Brook Trout	0	0	0	0	0	0	0	0	0	0	0	0
Lake Trout	0	0	0	0	0	0	0	0	0	0	0	0
Dolly Varden/Arctic Char	39,948	32,273	32,929	30,481	19,896	19,618	13,999	13,727	16,570	18,419	17,299	52,197
Arctic Grayling	55	116	0	0	0	19	141	0	0	0	0	76
Northern Pike	0	0	0	0	0	0	0	0	0	0	0	0
Whitefish	36	408	17	0	18	9	46	0	0	0	0	16
Burbot	0	0	0	0	0	0	0	0	0	0	0	0
Sheefish	0	568	0	0	779	398	382	290	73	277	121	125
Smelt	42,265	39,424	16,561	10,444	22,435	9,381	13,299	5,982	16,839	19,172	22,299	26,740
Halibut	225,106	229,016	247,202	266,523	264,943	313,147	329,046	325,188	350,220	380,256	350,464	640,706
Shark	0	0	0	0	0	0	0	0	127	1,391	609	11,871
Rockfish	128,121	86,776	62,572	67,263	86,523	82,625	98,971	75,613	79,050	88,220	87,458	205,209
Lingcod	0	0	0	23,049	28,894	22,857	27,878	20,192	24,362	28,305	25,312	46,345
Pacific Cod	0	0	0	0	0	0	0	0	1,911	8,469	5,252	26,354
Razor Clams	1,261,819	917,963	1,037,941	1,207,520	1,237,140	1,011,959	1,317,675	1,199,945	843,983	850,003	660,219	708,466
Other Fish	82,591	71,086	74,378	32,077	28,531	30,117	14,696	26,119	11,039	11,696	14,651	39,557
<b>Total</b>	<b>2,025,372</b>	<b>1,711,704</b>	<b>1,847,698</b>	<b>2,028,972</b>	<b>2,020,430</b>	<b>1,902,069</b>	<b>2,286,465</b>	<b>2,057,279</b>	<b>1,914,743</b>	<b>1,930,746</b>	<b>1,701,194</b>	<b>2,655,506</b>

**Appendix A16.-Alaska freshwater sport fish harvest by species, 1988-1998, and catch by species, 1998.**

Species	Harvest										Catch	
	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1998
<b>SALMON SPECIES:</b>												
Chinook	89,805	78,371	59,911	76,758	91,629	128,769	109,545	81,562	84,731	88,082	70,534	257,053
Sea-run Coho	203,952	208,311	160,832	213,513	198,893	217,126	241,813	181,996	220,925	141,185	202,564	378,963
Landlocked Coho/Chinook	57,679	46,697	37,831	51,799	46,843	54,182	41,744	22,326	54,442	31,678	34,767	82,006
Sockeye	279,592	418,740	227,902	314,587	355,705	263,321	235,429	220,993	303,751	301,715	317,390	564,930
Kokanee	2,461	2,727	2,071	6,276	2,478	4,203	747	209	76	202	638	1,654
Pink	68,319	40,241	78,656	31,725	55,159	26,163	32,774	23,203	50,102	26,251	48,080	379,919
Chum	24,626	21,513	8,238	10,831	9,540	8,349	8,756	13,970	15,223	10,600	9,886	142,538
<b>OTHER SPECIES:</b>												
Steelhead	4,282	4,262	4,225	4,051	2,066	2,895	1,834	999	313	319	265	19,946
Rainbow Trout	241,831	209,961	191,809	205,642	139,973	136,681	112,261	112,681	133,229	127,661	102,403	657,316
Cutthroat Trout	14,974	18,475	15,055	8,678	11,713	13,629	5,570	4,088	4,759	3,771	4,462	44,310
Brook Trout	1,273	887	450	477	1,026	762	481	274	223	167	10	3,445
Lake Trout	17,193	17,070	12,602	13,772	12,525	13,094	11,374	8,412	9,086	7,486	5,985	22,807
Dolly Varden/Arctic Char	110,554	103,854	99,624	112,113	77,175	80,810	59,534	55,930	72,519	63,157	53,565	455,370
Arctic Grayling	116,324	105,353	64,814	82,831	45,073	49,721	63,302	46,168	46,943	45,844	38,445	522,158
Northern Pike	23,440	21,659	15,985	29,611	18,616	19,366	25,558	19,006	23,043	16,603	15,617	78,752
Whitefish	20,276	23,929	15,578	6,828	6,720	4,214	4,408	2,863	2,047	4,223	4,352	11,298
Burbot	9,478	9,268	10,577	4,882	7,245	9,858	10,868	7,128	5,841	12,189	6,882	10,562
Sheefish	3,221	1,738	750	2,256	2,154	1,221	1,129	1,910	1,429	1,484	694	3,178
Smelt	167,880	168,402	177,507	101,390	126,105	52,114	92,828	46,923	44,028	58,319	58,030	58,327
Halibut	0	0	0	0	0	0	0	0	0	0	0	0
Shark	0	0	0	0	0	0	0	0	0	0	0	0
Rockfish	0	0	0	0	0	0	0	0	0	0	0	0
Lingcod	0	0	0	0	0	0	0	0	0	0	0	0
Pacific Cod	0	0	0	0	0	0	0	0	0	0	0	0
Razor Clams	0	0	0	0	0	0	0	0	0	0	0	0
Other Fish	774	705	1,186	4,521	2,980	1,173	3,916	2,059	571	1,338	2,357	6,469
<b>Total</b>	<b>1,457,934</b>	<b>1,502,163</b>	<b>1,185,603</b>	<b>1,282,541</b>	<b>1,213,618</b>	<b>1,087,651</b>	<b>1,063,871</b>	<b>852,700</b>	<b>1,073,281</b>	<b>942,274</b>	<b>976,926</b>	<b>3,701,001</b>

**Appendix A17.-Southeast Alaska sport fish harvest by species, 1988-1998, and catch by species, 1998.**

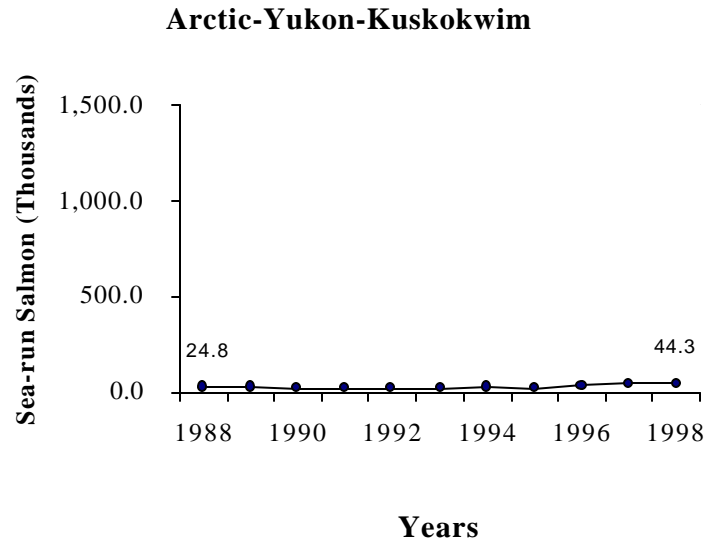
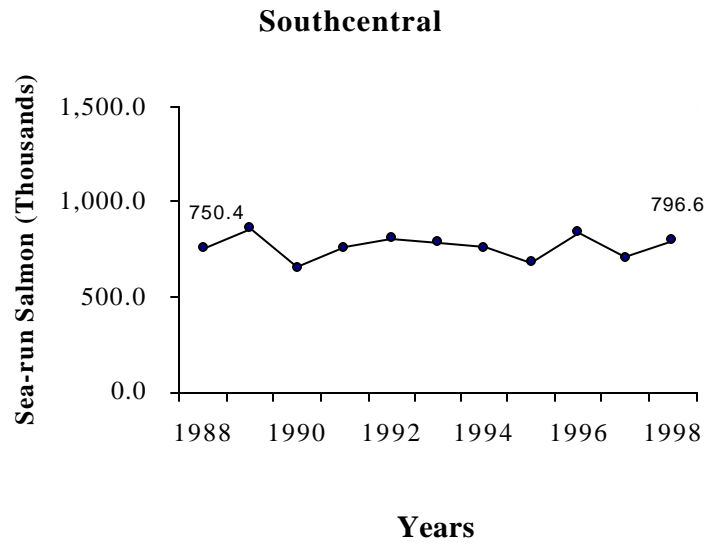
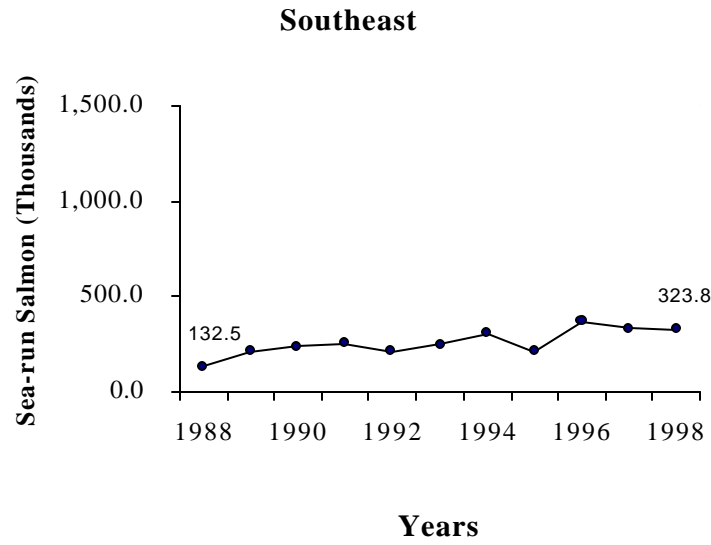
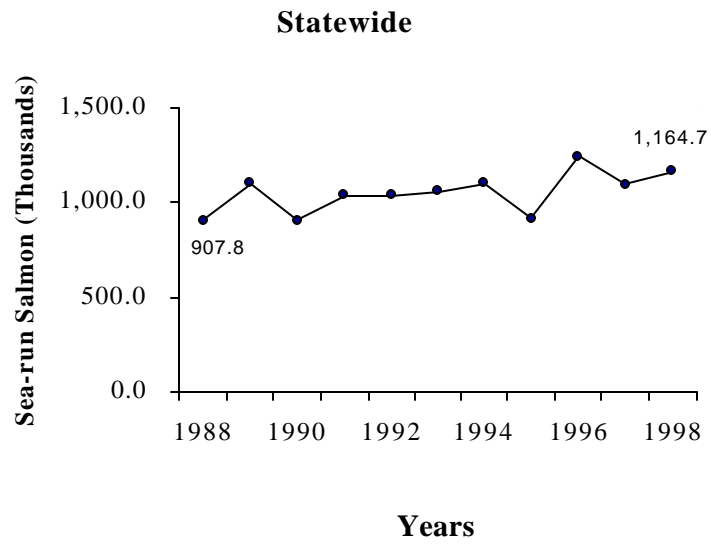
Species	Harvest											Catch
	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1998
<b>SALMON SPECIES:</b>												
Chinook	26,160	31,071	51,218	60,492	42,892	49,246	42,365	49,667	57,509	71,524	55,013	115,227
Sea-run Coho	43,688	90,789	105,212	123,946	99,939	121,874	191,860	97,128	193,758	163,202	171,395	221,958
Landlocked Coho/Chinook	728	528	413	1,222	1,536	1,454	717	48	36	195	249	754
Sockeye	7,711	13,114	9,848	9,715	9,318	17,419	13,023	13,491	15,709	21,273	25,450	46,905
Kokanee	474	520	99	362	769	206	60	0	76	29	223	770
Pink	45,023	70,822	65,208	57,859	54,101	51,436	52,263	42,958	85,059	62,549	50,706	142,607
Chum	9,913	8,932	4,962	5,593	6,041	9,380	11,561	11,438	20,196	19,059	21,256	54,347
<b>OTHER SPECIES:</b>												
Steelhead	4,309	5,409	4,274	4,632	2,439	1,249	685	233	159	243	119	12,066
Rainbow Trout	5,927	7,085	4,204	5,352	4,292	4,190	2,178	1,655	1,911	2,126	2,542	26,232
Cutthroat Trout	16,317	18,861	15,660	9,672	12,957	15,351	6,476	4,547	4,946	3,927	4,852	44,929
Brook Trout	1,273	887	450	477	1,026	762	481	274	223	167	10	3,445
Lake Trout	0	0	0	0	0	0	0	0	0	0	0	0
Dolly Varden/Arctic Char	59,371	51,636	48,300	45,954	26,238	26,893	18,558	17,723	22,447	21,722	21,751	109,750
Arctic Grayling	527	214	368	81	512	95	77	9	303	0	58	1,712
Northern Pike	18	42	0	136	0	0	0	0	0	0	0	0
Whitefish	91	61	16	60	18	0	0	0	0	4	0	0
Burbot	0	0	0	0	0	0	0	0	0	0	0	0
Sheefish	0	0	0	0	0	0	0	0	0	0	0	0
Smelt	6,869	4,564	3,678	6,202	36,940	2,374	2,797	904	1,284	4,478	3,868	3,868
Halibut	56,580	74,304	66,490	74,038	71,861	87,779	92,317	91,778	98,133	109,312	102,110	164,638
Rockfish	56,839	39,504	25,959	26,828	31,213	32,030	44,406	34,347	32,886	40,088	44,142	111,202
Lingcod	0	0	0	9,758	13,193	14,969	20,069	13,103	16,409	18,032	18,041	25,568
Razor Clams	3,284	5,104	4,428	618	2,445	1,001	928	2,004	228	141	126	126
Other Fish	32,800	17,579	20,167	14,204	8,892	13,237	7,200	13,533	3,580	5,760	6,108	12,355
<b>Total</b>	<b>377,902</b>	<b>441,026</b>	<b>430,954</b>	<b>457,201</b>	<b>426,622</b>	<b>450,945</b>	<b>508,021</b>	<b>394,840</b>	<b>554,852</b>	<b>543,831</b>	<b>528,019</b>	<b>1,098,459</b>

**Appendix A18.-Southcentral Alaska sport fish harvest by species, 1988-1998, and catch by species, 1998.**

Species	Harvest											Catch
	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1998
<b>SALMON SPECIES:</b>												
Chinook	104,474	88,253	70,885	87,965	109,338	157,623	129,476	102,549	98,983	98,680	76,195	235,258
Sea-run Coho	225,812	237,155	214,114	254,961	237,204	283,868	299,849	263,749	347,567	269,996	321,029	510,218
Landlocked Coho/Chinook	24,609	27,555	23,475	28,452	31,288	36,994	30,677	14,080	40,766	24,328	22,427	45,651
Sockeye	281,828	423,301	228,452	316,701	363,056	265,517	237,670	223,358	302,678	284,062	301,044	522,061
Kokanee	1,987	2,207	1,972	5,729	1,525	3,997	687	209	0	173	415	884
Pink	107,877	90,191	132,400	91,592	86,837	70,869	84,649	78,374	76,247	47,589	87,711	451,536
Chum	30,424	19,833	7,417	9,458	8,265	8,693	7,556	12,864	14,413	10,693	10,593	118,116
<b>OTHER SPECIES:</b>												
Steelhead	1,979	978	1,371	477	710	2,569	1,661	804	253	91	271	8,137
Rainbow Trout	155,960	127,444	122,987	127,492	97,730	82,312	76,384	74,972	81,814	87,554	55,864	466,377
Cutthroat Trout	619	1,511	523	416	1,015	940	612	122	707	642	717	3,279
Brook Trout	0	0	0	0	0	0	0	0	0	0	0	0
Lake Trout	14,463	13,465	10,859	10,739	10,334	10,496	9,543	7,080	7,880	4,197	3,328	9,459
Dolly Varden/Arctic Char	78,984	70,219	75,992	76,869	63,371	59,722	45,256	43,073	54,229	46,468	37,608	294,381
Arctic Grayling	46,891	33,618	26,940	30,396	22,257	23,786	30,249	22,874	21,649	11,876	7,776	120,573
Northern Pike	3,598	4,434	3,655	8,704	7,314	7,131	5,800	5,323	10,503	10,489	9,595	40,758
Whitefish	6,591	5,344	7,878	3,832	2,867	2,480	3,000	1,867	1,215	1,380	1,474	4,148
Burbot	5,600	4,374	5,094	1,827	2,992	3,392	5,165	1,853	2,030	3,575	1,578	2,393
Sheefish	0	0	0	0	0	0	0	0	0	0	0	0
Smelt	200,800	200,838	188,681	103,814	109,599	55,421	95,824	50,735	57,010	70,185	73,128	77,753
Halibut	168,526	154,712	180,568	192,485	193,049	225,314	236,609	233,389	251,746	270,775	247,316	474,336
Shark	0	0	0	0	0	0	0	0	127	1,391	609	11,871
Rockfish	71,282	47,272	36,613	40,435	55,310	50,595	54,565	41,266	46,164	48,132	43,316	94,007
Lingcod	0	0	0	13,291	15,701	7,888	7,809	7,089	7,953	10,273	7,271	20,777
Pacific Cod	0	0	0	0	0	0	0	0	1,911	8,469	5,252	26,354
Razor Clams	1,258,535	912,859	1,033,513	1,206,902	1,234,695	1,010,958	1,316,747	1,197,941	843,755	849,862	660,093	708,340
Other Fish	50,194	53,841	54,783	20,611	21,483	16,659	9,851	13,095	7,239	6,809	9,720	30,394
<b>Total</b>	<b>2,841,033</b>	<b>2,519,404</b>	<b>2,428,172</b>	<b>2,633,148</b>	<b>2,675,940</b>	<b>2,387,224</b>	<b>2,689,639</b>	<b>2,396,666</b>	<b>2,276,839</b>	<b>2,167,689</b>	<b>1,984,330</b>	<b>4,277,061</b>

**Appendix A19.-Arctic-Yukon-Kuskokwim Alaska sport fish harvest by species, 1988-1998, and catch by species, 1998.**

Species	Harvest											Catch
	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1998
<b>SALMON SPECIES:</b>												
Chinook	3,818	3,413	1,805	1,963	1,689	3,964	5,029	4,291	7,077	14,971	12,890	47,597
Sea-run Coho	11,950	10,251	6,610	10,662	8,370	6,745	10,418	7,754	13,871	11,327	9,511	49,754
Landlocked Coho/Chinook	32,342	18,614	13,943	22,125	14,019	15,734	10,350	8,198	13,640	7,155	12,091	35,601
Sockeye	1,528	456	818	631	378	725	912	381	787	13,504	12,891	30,773
Kokanee	0	0	0	185	184	0	0	0	0	0	0	0
Pink	3,859	3,765	7,994	1,865	8,434	2,277	7,228	982	6,498	1,533	7,172	40,744
Chum	3,692	5,882	2,146	3,158	2,993	2,446	2,760	2,344	3,956	1,596	1,876	29,795
<b>OTHER SPECIES:</b>												
Steelhead	0	0	0	0	0	0	0	0	0	0	0	196
Rainbow Trout	79,944	75,432	64,618	72,798	37,951	50,179	33,699	36,054	49,504	37,981	43,997	164,707
Cutthroat Trout	0	0	0	0	0	0	0	0	0	0	0	0
Brook Trout	0	0	0	0	0	0	0	0	0	0	0	0
Lake Trout	2,730	3,605	1,743	3,033	2,191	2,598	1,831	1,332	1,206	3,289	2,657	13,348
Dolly Varden/Arctic Char	12,147	14,272	8,261	19,771	7,462	13,813	9,719	8,861	12,413	13,386	11,505	103,436
Arctic Grayling	68,961	71,637	37,506	52,354	22,304	25,859	33,117	23,285	24,991	33,968	30,611	399,949
Northern Pike	19,824	17,183	12,330	20,771	11,302	12,235	19,758	13,683	12,540	6,114	6,022	37,994
Whitefish	13,630	18,932	7,701	2,936	3,853	1,743	1,454	996	832	2,839	2,878	7,166
Burbot	3,878	4,894	5,483	3,055	4,253	6,466	5,703	5,275	3,811	8,614	5,304	8,169
Sheefish	3,221	2,306	750	2,256	2,933	1,619	1,511	2,200	1,502	1,761	815	3,303
Smelt	2,476	2,424	1,709	1,818	2,001	3,700	7,506	1,266	2,573	2,828	3,333	3,446
Halibut	0	0	144	0	33	54	120	21	341	169	1,038	1,732
Rockfish	0	0	0	0	0	0	0	0	0	0	0	0
Lingcod	0	0	0	0	0	0	0	0	0	0	0	0
Razor Clams	0	0	0	0	0	0	0	0	0	0	0	0
Other Fish	371	371	614	1,783	1,136	1,394	1,561	1,550	791	465	1,180	3,277
<b>Total</b>	<b>264,371</b>	<b>253,437</b>	<b>174,175</b>	<b>221,164</b>	<b>131,486</b>	<b>151,551</b>	<b>152,676</b>	<b>118,473</b>	<b>156,333</b>	<b>161,500</b>	<b>165,771</b>	<b>980,987</b>



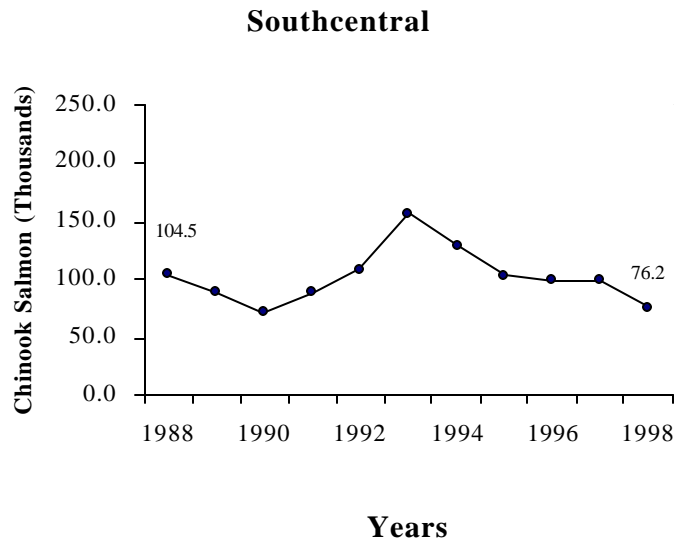
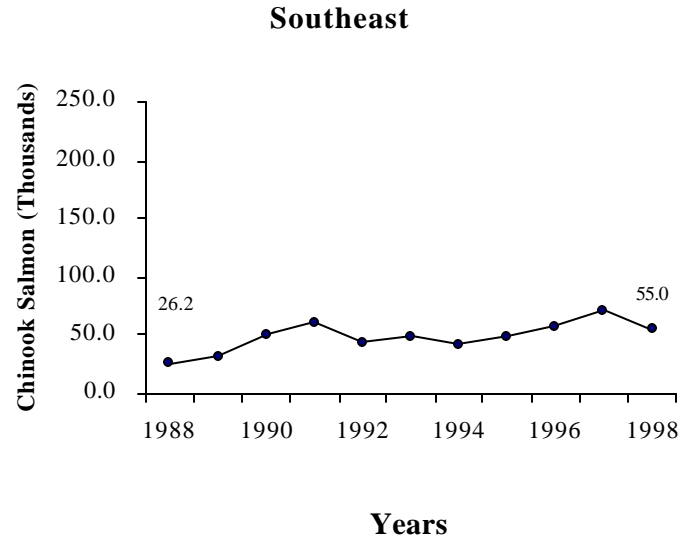
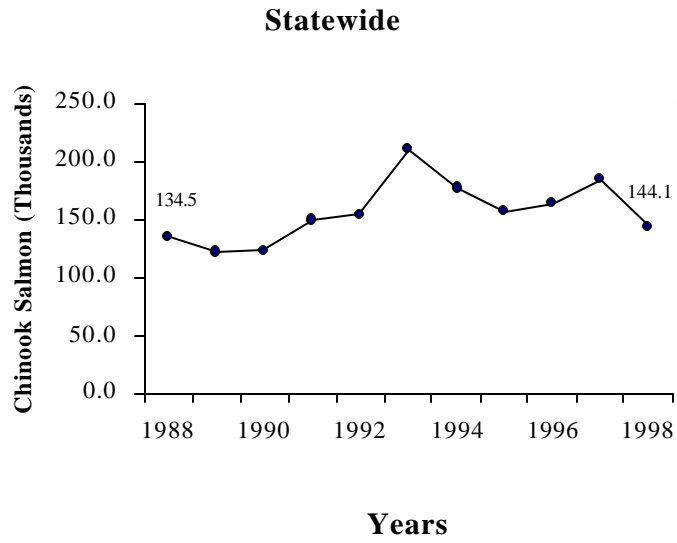
Appendix A20.-Alaska sport sea-run salmon harvests, statewide and by region 1988-1998.



**Appendix A21.-Alaska sport sea-run salmon harvests, 1988-1998, and catch, 1998, by region and area.**

Area Fished	Harvest											Catch
	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1998
<b>Southeast</b>												
Ketchikan	30,594	49,120	65,233	64,338	51,117	48,077	60,424	43,432	102,822	65,922	68,639	116,001
Prince of Wales Island	9,344	32,008	29,096	38,123	23,446	68,302	41,238	34,830	80,781	61,371	63,794	95,291
Kake, Petersburg, Wrangell, Stikine	8,176	11,339	19,664	15,836	14,225	12,676	20,047	12,967	14,218	12,544	9,816	20,503
Sitka	13,452	21,243	21,038	30,376	23,898	34,522	63,615	42,649	75,015	81,630	90,921	153,293
Juneau	51,411	75,647	71,887	75,939	77,599	58,745	95,097	56,777	62,392	63,904	55,362	117,573
Haines-Skagway	11,084	8,373	22,368	9,220	8,708	5,600	8,639	4,690	7,179	7,238	4,193	14,382
Glacier Bay	3,456	6,015	2,822	13,788	4,939	6,474	9,414	6,420	8,113	13,432	7,693	13,070
Yakutat	4,978	10,983	4,340	9,985	8,359	14,959	12,598	12,917	21,711	31,566	23,402	50,931
Total	132,495	214,728	236,448	257,605	212,291	249,355	311,072	214,682	372,231	337,607	323,820	581,044
<b>Southcentral</b>												
Upper Copper/Upper Susitna Drainages	4,891	6,883	5,871	10,464	9,085	13,754	13,173	12,937	21,159			
Prince William Sound	63,195	72,292	81,710	77,964	67,708	66,159	92,110	99,860	100,589	85,964	96,386	199,670
Knik Arm Drainage	58,177	43,025	28,768	31,456	36,686	46,406	39,915	31,230	33,402	19,576	32,723	54,741
Anchorage	13,540	8,864	8,436	8,657	18,659	25,663	20,403	21,240	26,604	27,308	49,364	105,936
East Susitna River Drainage	42,247	36,254	29,501	35,410	66,508	58,309	42,520	36,264	44,570	32,466	47,256	191,246
West Cook Inlet-West Susitna River	49,540	53,873	44,000	57,015	49,052	55,547	41,053	40,515	44,199	30,475	39,752	107,024
Kenai Peninsula	422,275	512,243	362,912	450,156	482,681	423,540	421,335	357,452	483,852	429,083	428,804	741,282
Kodiak	47,185	46,103	28,435	38,539	28,654	47,010	33,700	36,759	37,204	42,480	50,478	160,915
Naknek River Drainage-Alaska Peninsula	35,928	34,262	42,404	23,294	21,220	15,541	16,881	14,944	18,758	18,714	16,271	63,316
Kvichak River Drainage	5,573	29,285	13,382	16,730	14,886	23,906	19,839	20,089	11,728	13,849	19,815	99,385
Nushagak	7,864	15,649	7,849	10,992	9,561	10,735	18,271	9,604	17,823	11,105	15,723	113,674
Total <sup>a</sup>	750,415	858,733	653,268	760,677	804,700	786,570	759,200	680,894	839,888	711,020	796,572	1,837,18
<b>Arctic-Yukon-Kuskokwim</b>												
Upper Copper/Upper Susitna Drainages										20,735	19,718	45,218
Tanana River Drainages	3,581	3,693	2,213	3,563	1,923	2,222	3,296	4,589	6,979	3,638	1,121	5,675
Kuskokwim-Goodnews Drainages	9,422	9,124	3,971	3,770	4,414	5,203	7,772	4,847	9,232	10,415	9,769	98,177
Seward Peninsula-Norton Sound Drainages	10,715	9,587	12,439	9,594	13,406	7,329	13,752	5,569	14,685	7,265	12,668	42,695
Northwest Alaska Drainages	254	51	0	150	521	452	299	359	626	272	190	679
Yukon River Drainages	820	1,312	750	1,202	1,567	934	1,228	388	656	606	861	6,206
North Slope Brooks Range Drainages	55	0	0	0	33	17	0	0	11	0	13	13
Total <sup>a</sup>	24,847	23,767	19,373	18,279	21,864	16,157	26,347	15,752	32,189	42,931	44,340	198,663
<b>Alaska Total</b>	<b>907,757</b>	<b>1,097,22</b>	<b>909,089</b>	<b>1,036,56</b>	<b>1,038,85</b>	<b>1,052,08</b>	<b>1,096,61</b>	<b>911,328</b>	<b>1,244,30</b>	<b>1,091,55</b>	<b>1,164,73</b>	<b>2,616,89</b>

<sup>a</sup> Upper Copper/Upper Susitna Drainages estimates are included under the Arctic-Yukon-Kuskokwim Region starting in 1997 to reflect the shift in management responsibilities.

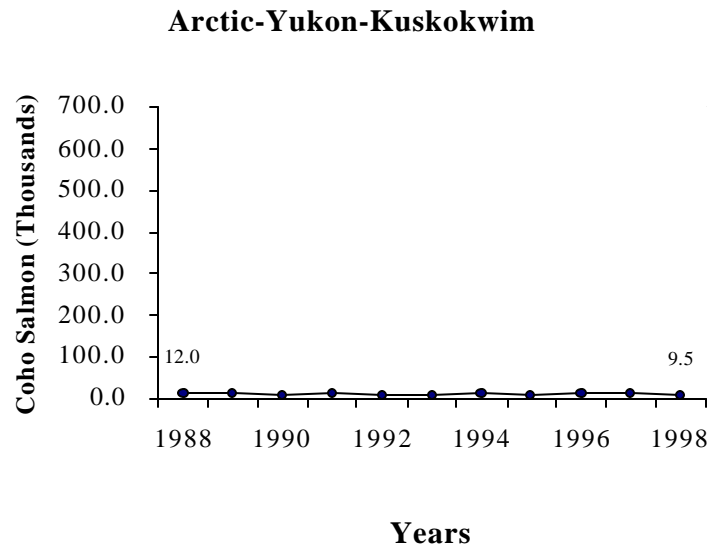
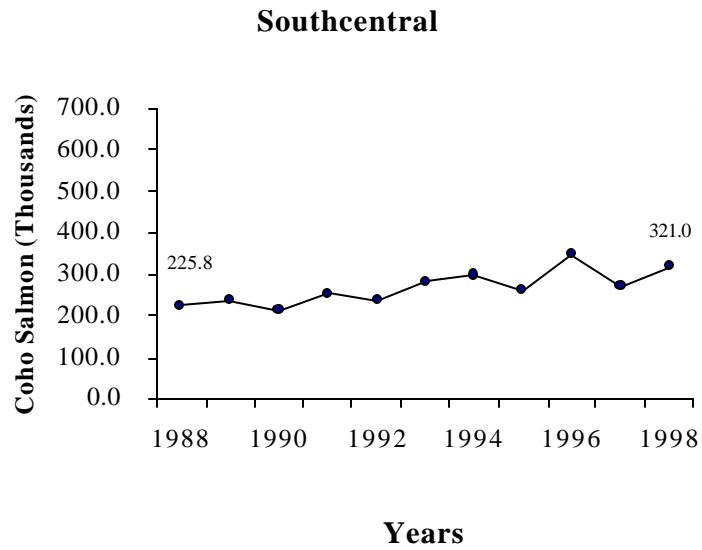
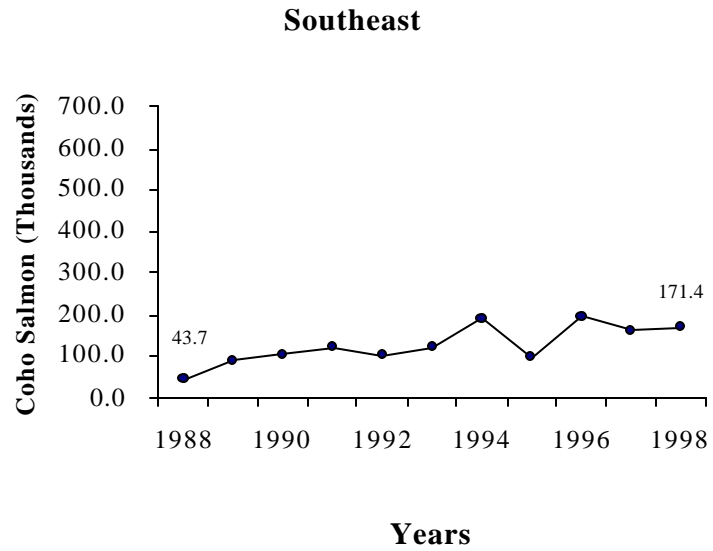
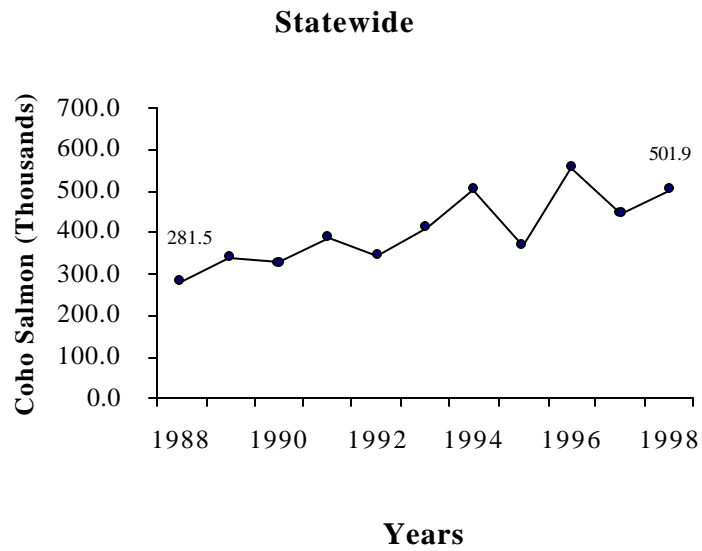


**Appendix A22.-Alaska sport sea-run chinook salmon harvest, statewide and by region 1988-1998.**

**Appendix A23.-Alaska sport sea-run chinook salmon harvests, 1988-1998, and catch, 1998, by region and area.**

Area Fished	Harvest											Catch
	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1998
<b>Southeast</b>												
Ketchikan	7,422	7,642	12,784	11,887	8,010	6,028	5,448	3,543	5,437	5,257	3,242	10,098
Prince of Wales Island	1,135	2,599	5,564	6,749	4,381	8,367	7,006	9,063	6,833	7,830	10,232	18,603
Kake, Petersburg, Wrangell, Stikine	4,668	4,702	10,185	8,011	5,746	6,132	4,217	4,085	5,039	6,299	3,692	7,693
Sitka	3,539	5,569	8,041	13,243	11,139	13,464	12,263	17,342	19,743	28,986	24,547	49,009
Juneau	7,884	9,375	12,349	16,914	11,886	13,118	11,407	11,428	14,684	15,521	8,778	19,475
Haines-Skagway	789	758	1,809	679	181	844	636	1,243	777	1,609	691	2,967
Glacier Bay	438	344	369	2,385	1,071	716	576	895	1,384	3,093	1,314	2,614
Yakutat	285	82	117	624	478	577	812	2,068	3,612	2,929	2,517	4,768
Total	26,160	31,071	51,218	60,492	42,892	49,246	42,365	49,667	57,509	71,524	55,013	115,227
<b>Southcentral</b>												
Upper Copper/Upper Susitna Drainages	1,562	2,356	2,302	4,884	4,412	8,217	6,431	6,709	9,116			
Prince William Sound	443	1,093	418	477	1,116	1,344	1,724	977	2,027	2,703	1,622	2,676
Knik Arm Drainage	2,916	4,341	2,022	2,277	3,969	3,602	4,303	1,707	1,579	2,938	2,031	3,785
Anchorage	663	950	457	1,169	2,448	3,041	2,708	4,054	4,456	4,616	2,156	6,022
East Susitna River Drainage	9,139	9,783	9,423	9,083	21,307	22,688	14,970	7,872	11,023	10,989	10,472	31,265
West Cook Inlet-West Susitna River Drainages	17,940	22,415	19,568	22,762	20,035	23,354	12,231	7,300	7,429	9,197	10,526	31,855
Kenai Peninsula	60,033	34,934	27,314	33,622	43,519	78,407	65,092	59,319	47,133	51,011	32,063	63,283
Kodiak	1,564	1,087	996	2,508	2,217	5,092	3,166	2,622	4,631	5,691	4,052	15,543
Naknek River Drainage-Alaska Peninsula	6,654	4,706	3,736	3,546	3,728	3,471	5,197	4,688	3,891	5,552	4,364	15,939
Kvichak River Drainage	93	2,143	683	900	1,249	1,906	1,308	1,293	1,145	1,112	2,054	11,138
Nushagak	3,467	4,445	3,966	6,737	5,338	6,501	12,346	6,008	6,553	4,871	6,855	53,752
Total <sup>a</sup>	104,474	88,253	70,885	87,965	109,338	157,623	129,476	102,549	98,983	98,680	76,195	235,258
<b>Arctic-Yukon-Kuskokwim</b>												
Upper Copper/Upper Susitna Drainages										8,346	8,245	22,324
Tanana River Drainages	853	963	439	630	118	1,573	1,871	2,488	3,745	1,953	447	2,117
Kuskokwim-Goodnews Drainages	2,456	2,147	897	786	1,046	1,674	2,148	1,328	2,542	3,345	3,401	20,980
Seward Peninsula-Norton Sound Drainages	400	203	364	404	204	595	600	438	662	1,106	590	1,720
Northwest Alaska Drainages	18	0	0	0	8	0	0	0	0	0	0	0
Yukon River Drainages	91	100	105	143	313	122	410	37	128	221	207	456
North Slope Brooks Range Drainages	0	0	0	0	0	0	0	0	0	0	0	0
Total <sup>a</sup>	3,818	3,413	1,805	1,963	1,689	3,964	5,029	4,291	7,077	14,971	12,890	47,597
<b>Alaska Total</b>	<b>134,452</b>	<b>122,737</b>	<b>123,908</b>	<b>150,420</b>	<b>153,919</b>	<b>210,833</b>	<b>176,870</b>	<b>156,507</b>	<b>163,569</b>	<b>185,175</b>	<b>144,098</b>	<b>398,082</b>

<sup>a</sup> Upper Copper/Upper Susitna Drainages estimates are included under the Arctic-Yukon-Kuskokwim Region starting in 1997 to reflect the shift in management responsibilities.

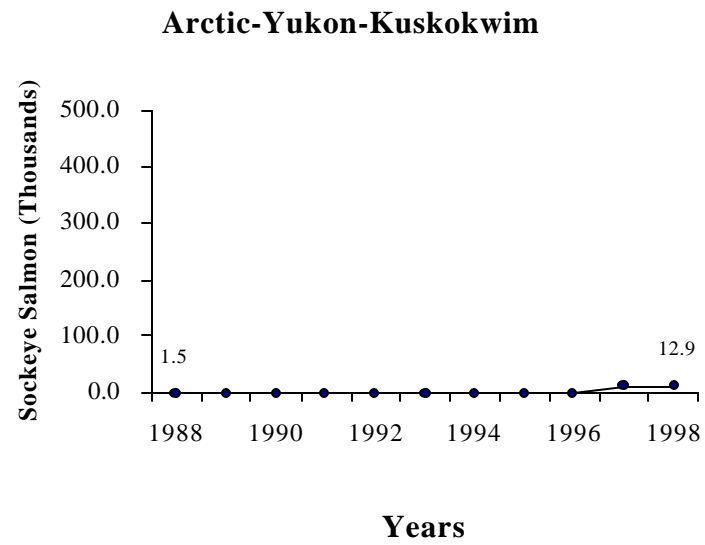
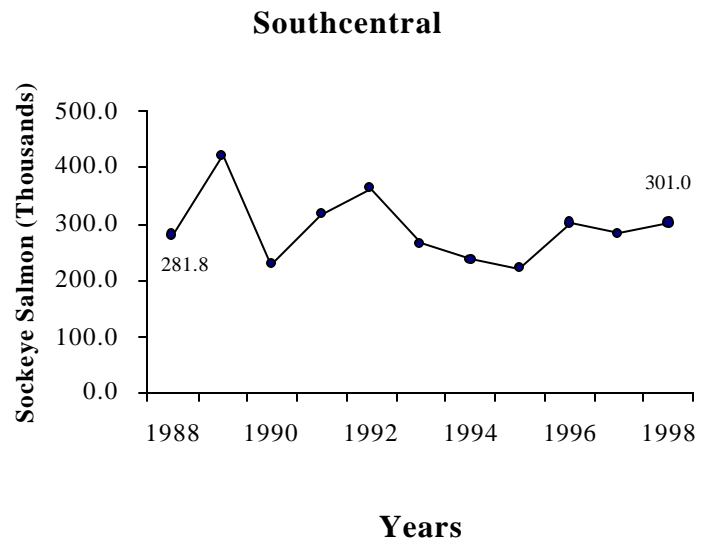
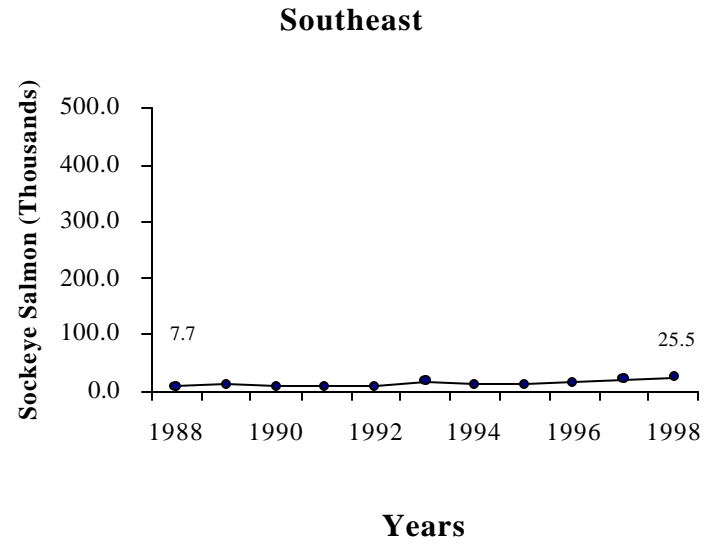
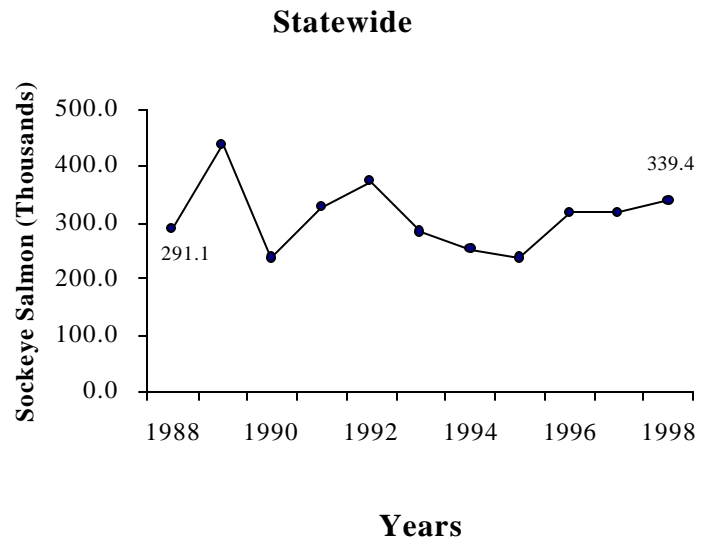


Appendix A24.-Alaska sport sea-run coho salmon harvest, statewide and by region 1988-1998.

**Appendix A25.-Alaska sport sea-run coho salmon harvests, 1988-1998, and catch, 1998, by region and area.**

Area Fished	Harvest											Catch
	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1998
<b>Southeast</b>												
Ketchikan	7,785	13,328	35,197	26,839	22,016	19,459	34,755	16,583	47,911	32,498	31,895	39,700
Prince of Wales Island	3,094	15,099	17,049	24,964	13,419	40,566	26,411	16,645	53,792	38,210	41,190	47,880
Kake, Petersburg, Wrangell, Stikine	2,581	2,602	5,387	5,117	4,967	4,241	14,008	5,811	6,640	3,338	3,282	4,633
Sitka	2,745	8,291	7,808	11,474	9,167	14,518	42,878	16,614	35,892	37,953	51,468	65,567
Juneau	20,862	39,063	33,961	40,269	40,170	30,428	57,127	30,396	32,472	27,392	28,663	35,940
Haines-Skagway	1,673	2,047	1,498	3,678	3,067	3,133	1,996	2,097	1,821	1,850	992	1,780
Glacier Bay	1,345	2,376	1,746	5,653	1,507	2,720	6,811	2,976	4,667	5,955	3,781	4,450
Yakutat	3,603	7,983	2,566	5,952	5,626	6,809	7,874	6,006	10,563	16,006	10,124	22,008
Total	43,688	90,789	105,212	123,946	99,939	121,874	191,860	97,128	193,758	163,202	171,395	221,958
<b>Southcentral</b>												
Upper Copper/Upper Susitna Drainages	291	18	0	69	113	249	209	160	192			
Prince William Sound	19,262	25,631	26,639	19,783	25,259	21,793	30,573	47,116	59,934	49,145	47,973	72,954
Knik Arm Drainage	40,037	23,846	18,762	22,186	25,814	35,763	28,539	20,650	24,874	11,773	23,750	30,286
Anchorage	6,639	4,734	2,488	4,393	5,698	16,387	13,948	13,267	17,795	20,578	42,219	64,522
East Susitna River Drainage	19,518	17,078	11,743	19,479	33,790	26,063	20,870	19,165	24,174	10,297	23,086	37,393
West Cook Inlet-West Susitna River Drainages	23,740	26,725	20,219	29,518	23,748	26,712	23,169	28,420	31,315	14,055	21,912	38,940
Kenai Peninsula	87,238	104,026	107,519	132,765	100,848	130,207	158,618	113,870	154,686	129,095	128,249	178,454
Kodiak	18,809	19,802	13,728	17,506	13,668	21,241	12,406	13,236	16,033	22,996	24,850	56,490
Naknek River Drainage-Alaska Peninsula	7,089	7,850	10,276	6,025	6,124	3,253	7,053	4,680	9,880	8,046	5,908	14,247
Kvichak River Drainage	1,022	2,142	1,162	1,510	655	1,519	1,863	1,396	2,249	2,077	413	2,920
Nushagak	2,167	5,303	1,578	1,727	1,487	681	2,601	1,789	6,435	1,934	2,669	14,012
Total <sup>a</sup>	225,812	237,155	214,114	254,961	237,204	283,868	299,849	263,749	347,567	269,996	321,029	510,218
<b>Arctic-Yukon-Kuskokwim</b>												
Upper Copper/Upper Susitna Drainages										96	289	1,535
Tanana River Drainages	2,237	1,596	1,719	2,345	1,115	278	1,165	1,116	1,354	1,229	604	2,513
Kuskokwim-Goodnews Drainages	4,492	4,282	1,358	2,087	2,033	2,056	2,978	2,771	4,756	5,430	4,023	35,162
Seward Peninsula-Norton Sound Drainages	5,038	4,158	3,305	5,800	4,671	3,783	5,547	3,705	7,289	4,393	4,441	10,159
Northwest Alaska Drainages	0	0	0	0	0	9	0	0	40	0	0	0
Yukon River Drainages	183	215	228	430	551	619	728	162	432	179	154	385
North Slope Brooks Range Drainages	0	0	0	0	0	0	0	0	0	0	0	0
Total <sup>a</sup>	11,950	10,251	6,610	10,662	8,370	6,745	10,418	7,754	13,871	11,327	9,511	49,754
<b>Alaska Total</b>	<b>281,450</b>	<b>338,195</b>	<b>325,936</b>	<b>389,569</b>	<b>345,513</b>	<b>412,487</b>	<b>502,127</b>	<b>368,631</b>	<b>555,196</b>	<b>444,525</b>	<b>501,935</b>	<b>781,930</b>

<sup>a</sup> Upper Copper/Upper Susitna Drainages estimates are included under the Arctic-Yukon-Kuskokwim Region starting in 1997 to reflect the shift in management responsibilities.

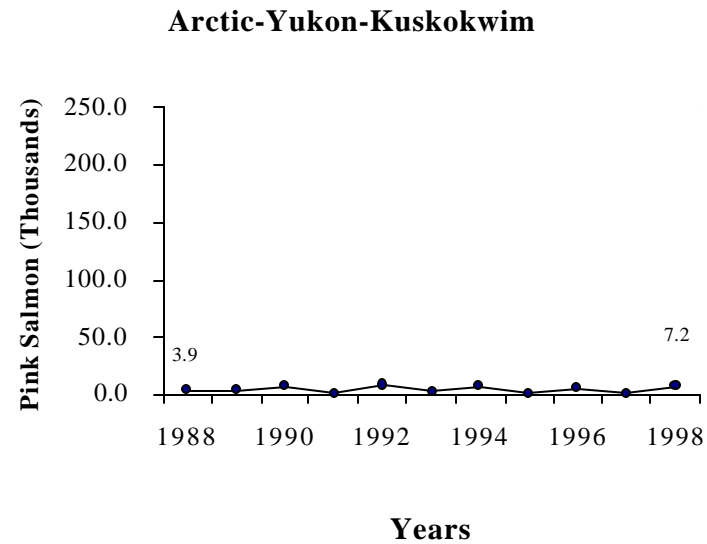
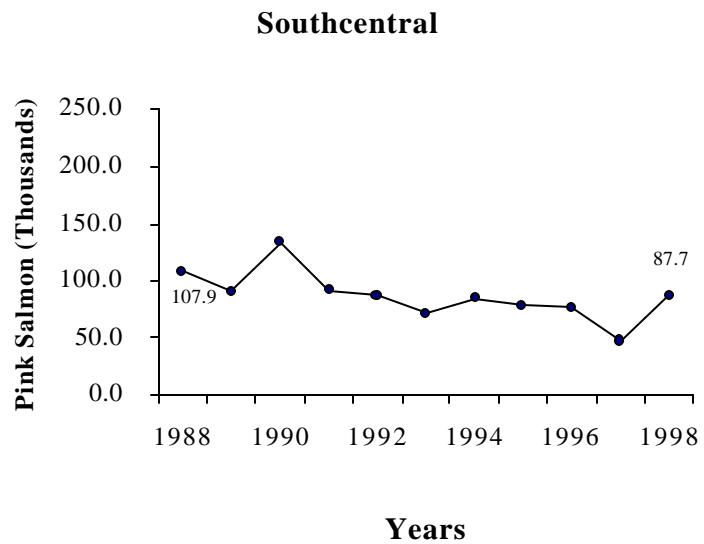
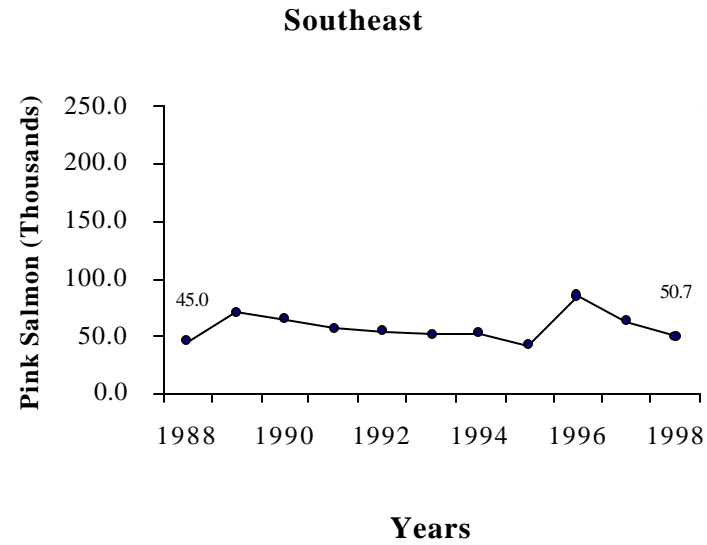
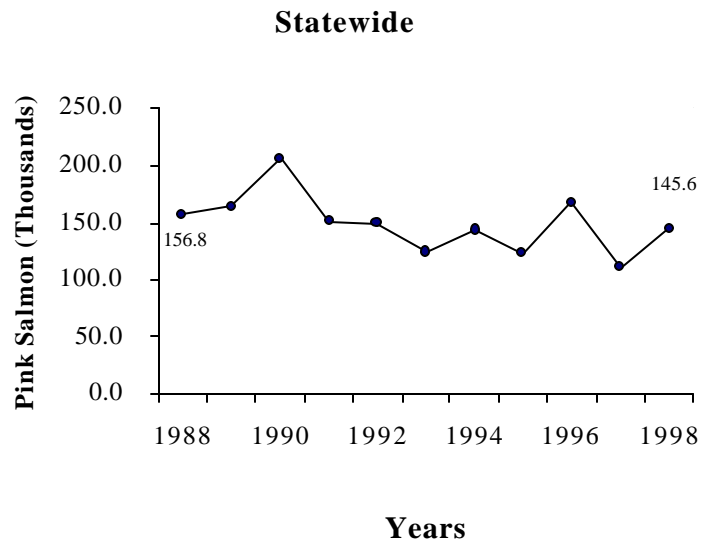


Appendix A26.-Alaska sport sea-run sockeye salmon harvest, statewide and by region 1988-1998.

**Appendix A27.-Alaska sport sockeye salmon harvests, 1988-1998, and catch, 1998, by region and area.**

Area Fished	Harvest											Catch
	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1998
<b>Southeast</b>												
Ketchikan	327	1,010	1,134	2,480	1,313	1,057	2,317	1,577	1,745	1,687	2,949	4,498
Prince of Wales Island	1,729	3,332	1,402	1,021	1,740	3,591	2,186	1,979	1,765	2,891	3,165	3,819
Kake, Petersburg, Wrangell, Stikine	163	1,001	488	612	1,133	1,208	521	1,071	690	1,474	880	1,057
Sitka	3,147	2,148	1,344	810	434	1,126	2,138	1,579	3,041	3,509	3,781	5,385
Juneau	436	1,461	974	1,017	985	2,530	1,419	1,958	1,106	1,956	3,861	9,550
Haines-Skagway	672	1,692	3,062	1,272	1,436	538	538	506	902	784	276	1,313
Glacier Bay	510	216	21	132	379	314	93	696	327	535	180	218
Yakutat	727	2,254	1,423	2,371	1,898	7,055	3,811	4,125	6,133	8,437	10,358	21,065
Total	7,711	13,114	9,848	9,715	9,318	17,419	13,023	13,491	15,709	21,273	25,450	46,905
<b>Southcentral</b>												
Upper Copper/Upper Susitna Drainages	3,038	4,509	3,569	5,511	4,560	5,288	6,533	6,068	11,851			
Prince William Sound	4,783	3,939	3,562	3,792	8,358	5,269	6,948	3,711	5,496	5,086	8,312	16,478
Knik Arm Drainage	8,076	9,040	6,588	4,968	5,349	5,926	5,082	4,349	4,307	4,095	5,499	8,113
Anchorage	472	564	244	749	1,315	3,085	1,594	381	884	1,023	1,271	2,100
East Susitna River Drainage	2,857	2,527	2,677	2,897	3,468	4,137	3,443	3,682	2,675	5,851	5,859	10,559
West Cook Inlet-West Susitna River Drainages	3,640	3,009	2,634	3,887	3,367	4,577	4,011	3,722	4,340	5,283	5,190	12,530
Kenai Peninsula	242,557	354,981	185,711	270,424	312,302	201,909	176,462	171,850	251,963	237,981	241,843	349,847
Kodiak	6,222	6,789	6,056	4,937	6,240	7,849	12,502	7,994	7,848	7,938	8,763	21,618
Naknek River Drainage-Alaska Peninsula	4,920	9,515	4,754	4,225	4,699	5,060	3,169	3,817	3,246	3,384	4,063	17,432
Kvichak River Drainage	4,334	24,295	11,002	13,341	11,746	19,671	16,223	16,808	7,318	10,315	15,638	60,843
Nushagak	929	4,133	1,655	1,970	1,652	2,746	1,703	976	2,750	3,106	4,606	22,541
Total <sup>a</sup>	281,828	423,301	228,452	316,701	363,056	265,517	237,670	223,358	302,678	284,062	301,044	522,061
<b>Arctic-Yukon-Kuskokwim</b>												
Upper Copper/Upper Susitna Drainages										12,293	11,184	21,359
Tanana River Drainages	0	0	0	0	0	0	0	0	0	0	0	0
Kuskokwim-Goodnews Drainages	746	291	620	214	189	715	894	277	687	1,181	1,627	8,186
Seward Peninsula-Norton Sound Drainages	782	165	198	237	131	10	18	104	100	30	16	209
Northwest Alaska Drainages	0	0	0	0	0	0	0	0	0	0	0	0
Yukon River Drainages	0	0	0	180	58	0	0	0	0	0	64	1,019
North Slope Brooks Range Drainages	0	0	0	0	0	0	0	0	0	0	0	0
Total <sup>a</sup>	1,528	456	818	631	378	725	912	381	787	13,504	12,891	30,773
<b>Alaska Total</b>	<b>291,067</b>	<b>436,871</b>	<b>239,118</b>	<b>327,047</b>	<b>372,752</b>	<b>283,661</b>	<b>251,605</b>	<b>237,230</b>	<b>319,174</b>	<b>318,839</b>	<b>339,385</b>	<b>599,739</b>

<sup>a</sup> Upper Copper/Upper Susitna Drainages estimates are included under the Arctic-Yukon-Kuskokwim Region starting in 1997 to reflect the shift in management responsibilities.



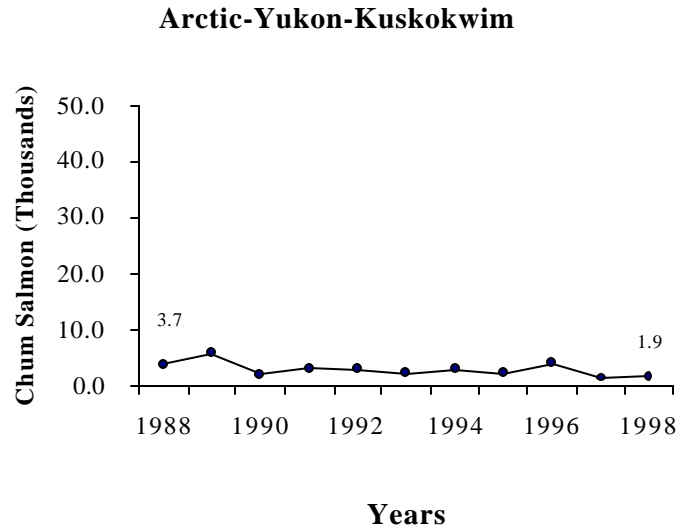
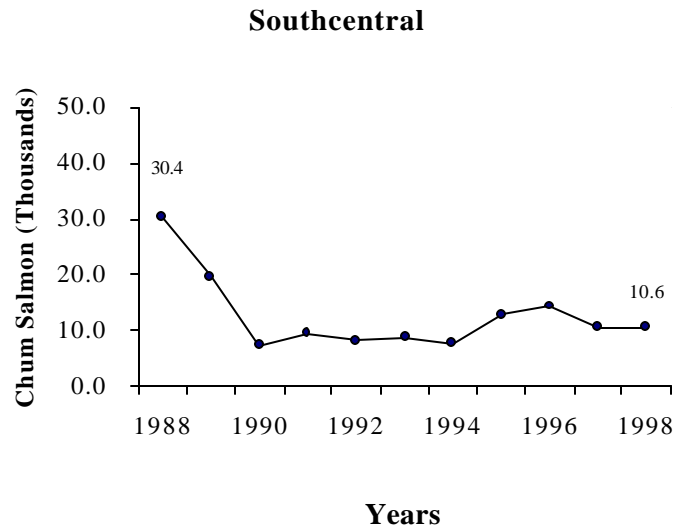
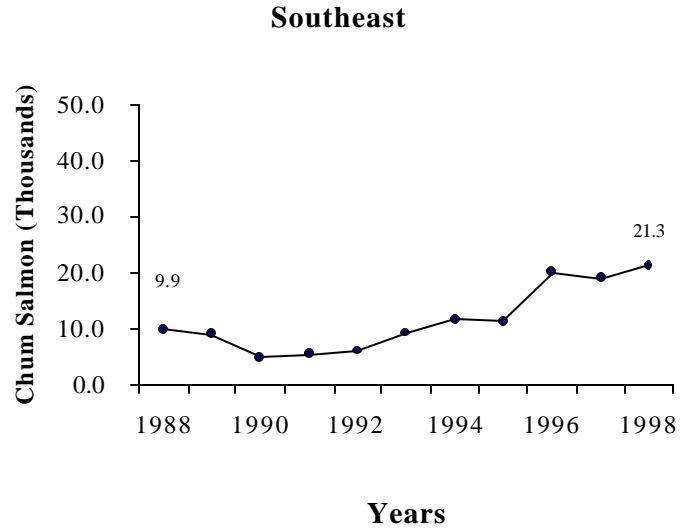
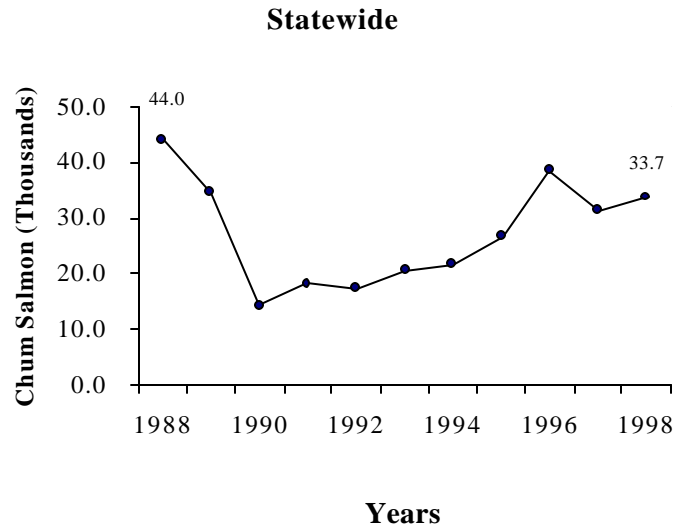
Appendix A28.-Alaska sport sea-run pink salmon harvest, statewide and by region 1988-1998.



**Appendix A29.-Alaska sport pink salmon harvests, 1988-1998, and catch, 1998, by region and area.**

Area Fished	Harvest											Catch
	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1998
<b>Southeast</b>												
Ketchikan	12,896	25,174	15,246	21,964	18,510	19,651	15,028	18,148	43,082	19,370	18,169	41,014
Prince of Wales Island	2,567	10,338	4,847	5,063	3,699	14,817	4,855	6,467	16,678	10,397	8,216	21,161
Kake, Petersburg, Wrangell, Stikine	601	2,420	3,426	1,889	2,058	955	1,178	1,614	1,420	1,306	1,754	5,041
Sitka	2,709	3,694	3,083	4,476	2,699	3,376	4,266	5,466	9,860	6,902	7,916	26,273
Juneau	18,082	22,488	22,385	14,998	21,411	9,216	20,060	8,373	8,261	14,232	9,895	33,474
Haines-Skagway	7,096	3,201	15,362	3,171	3,811	360	5,036	629	3,054	2,552	2,183	7,738
Glacier Bay	1,000	2,913	637	5,358	1,556	2,612	1,739	1,620	1,312	3,684	2,220	5,383
Yakutat	72	594	222	940	357	449	101	641	1,392	4,106	353	2,523
Total	45,023	70,822	65,208	57,859	54,101	51,436	52,263	42,958	85,059	62,549	50,706	142,607
<b>Southcentral</b>												
Upper Copper/Upper Susitna Drainages	0	0	0	0	0	0	0	0	0			
Prince William Sound	31,470	37,994	49,146	52,290	32,011	35,735	51,538	46,944	31,052	26,437	36,231	96,458
Knik Arm Drainage	1,927	1,321	650	926	1,044	230	635	409	961	377	646	7,796
Anchorage	5,075	1,631	4,932	1,986	8,901	2,767	1,979	3,099	2,862	843	3,205	28,138
East Susitna River Drainage	4,129	2,715	4,093	2,001	5,899	3,941	1,968	2,311	3,890	2,477	5,579	73,478
West Cook Inlet-West Susitna River Drainages	2,637	1,255	1,298	623	1,446	725	1,301	428	620	766	1,730	17,039
Kenai Peninsula	26,980	15,377	41,257	12,280	24,407	11,601	20,202	11,726	27,259	9,576	25,522	145,146
Kodiak	19,044	17,794	7,464	12,071	5,904	12,324	5,336	11,926	7,076	5,449	12,266	63,575
Naknek River Drainage-Alaska Peninsula	16,336	11,359	23,178	8,891	6,137	3,331	1,283	1,350	1,354	1,567	1,686	8,805
Kvichak River Drainage	62	277	235	423	750	215	105	28	643	40	506	4,365
Nushagak	217	468	147	101	338	0	302	153	530	57	340	6,736
Total <sup>a</sup>	107,877	90,191	132,400	91,592	86,837	70,869	84,649	78,374	76,247	47,589	87,711	451,536
<b>Arctic-Yukon-Kuskokwim</b>												
Upper Copper/Upper Susitna Drainages										0	0	0
Tanana River Drainages	0	0	0	0	0	0	0	0	0	0	0	0
Kuskokwim-Goodnews Drainages	892	191	347	36	219	27	126	16	486	75	122	13,826
Seward Peninsula-Norton Sound Drainages	2,912	3,564	7,647	1,738	7,877	2,250	7,051	928	5,972	1,458	6,939	25,769
Northwest Alaska Drainages	0	10	0	91	293	0	51	38	10	0	13	334
Yukon River Drainages	0	0	0	0	27	0	0	0	30	0	85	802
North Slope Brooks Range Drainages	55	0	0	0	18	0	0	0	0	0	13	13
Total <sup>a</sup>	3,859	3,765	7,994	1,865	8,434	2,277	7,228	982	6,498	1,533	7,172	40,744
<b>Alaska Total</b>	<b>156,759</b>	<b>164,778</b>	<b>205,602</b>	<b>151,316</b>	<b>149,372</b>	<b>124,582</b>	<b>144,140</b>	<b>122,314</b>	<b>167,804</b>	<b>111,671</b>	<b>145,589</b>	<b>634,887</b>

<sup>a</sup> Upper Copper/Upper Susitna Drainages estimates are included under the Arctic-Yukon-Kuskokwim Region starting in 1997 to reflect the shift in management responsibilities.



Appendix A30.-Alaska sport sea-run chum salmon harvest, statewide and by region 1988-1998.

**Appendix A31.-Alaska sport chum salmon harvests, 1988-1998, and catch, 1998, by region and area.**

Area Fished	Harvest											Catch
	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1998
<b>Southeast</b>												
Ketchikan	2,164	1,966	872	1,168	1,268	1,882	2,876	3,581	4,647	7,110	12,384	20,691
Prince of Wales Island	819	640	234	326	207	961	780	676	1,713	2,043	991	3,828
Kake, Petersburg, Wrangell, Stikine	163	614	178	207	321	140	123	386	429	127	208	2,079
Sitka	1,312	1,541	762	373	459	2,038	2,070	1,648	6,479	4,280	3,209	7,059
Juneau	4,147	3,260	2,218	2,741	3,147	3,453	5,084	4,622	5,869	4,803	4,165	19,134
Haines-Skagway	854	675	637	420	213	725	433	215	625	443	51	584
Glacier Bay	163	166	49	260	426	112	195	233	423	165	198	405
Yakutat	291	70	12	98	0	69	0	77	11	88	50	567
<b>Total</b>	<b>9,913</b>	<b>8,932</b>	<b>4,962</b>	<b>5,593</b>	<b>6,041</b>	<b>9,380</b>	<b>11,561</b>	<b>11,438</b>	<b>20,196</b>	<b>19,059</b>	<b>21,256</b>	<b>54,347</b>
<b>Southcentral</b>												
Upper Copper/Upper Susitna Drainages	0	0	0	0	0	0	0	0	0			
Prince William Sound	7,237	3,635	1,945	1,622	964	2,018	1,327	1,112	2,080	2,593	2,248	11,104
Knik Arm Drainage	5,221	4,477	746	1,099	510	885	1,356	4,115	1,681	393	797	4,761
Anchorage	691	985	315	360	297	383	174	439	607	248	513	5,154
East Susitna River Drainage	6,604	4,151	1,565	1,950	2,044	1,480	1,269	3,234	2,808	2,852	2,260	38,551
West Cook Inlet-West Susitna River Drainages	1,583	469	281	225	456	179	341	645	495	1,174	394	6,660
Kenai Peninsula	5,467	2,925	1,111	1,065	1,605	1,416	961	687	2,811	1,420	1,127	4,552
Kodiak	1,546	631	191	1,517	625	504	290	981	1,616	406	547	3,689
Naknek River Drainage-Alaska Peninsula	929	832	460	607	532	426	179	409	387	165	250	6,893
Kvichak River Drainage	62	428	300	556	486	595	340	564	373	305	1,204	20,119
Nushagak	1,084	1,300	503	457	746	807	1,319	678	1,555	1,137	1,253	16,633
<b>Total<sup>a</sup></b>	<b>30,424</b>	<b>19,833</b>	<b>7,417</b>	<b>9,458</b>	<b>8,265</b>	<b>8,693</b>	<b>7,556</b>	<b>12,864</b>	<b>14,413</b>	<b>10,693</b>	<b>10,593</b>	<b>118,116</b>
<b>Arctic-Yukon-Kuskokwim</b>												
Upper Copper/Upper Susitna Drainages										0	0	0
Tanana River Drainages	491	1,134	55	588	690	371	260	985	1,880	456	70	1,045
Kuskokwim-Goodnews Drainages	836	2,213	749	647	927	731	1,626	455	761	384	596	20,023
Seward Peninsula-Norton Sound Drainages	1,583	1,497	925	1,415	523	691	536	394	662	278	682	4,838
Northwest Alaska Drainages	236	41	0	59	220	443	248	321	576	272	177	345
Yukon River Drainages	546	997	417	449	618	193	90	189	66	206	351	3,544
North Slope Brooks Range Drainages	0	0	0	0	15	17	0	0	11	0	0	0
<b>Total<sup>a</sup></b>	<b>3,692</b>	<b>5,882</b>	<b>2,146</b>	<b>3,158</b>	<b>2,993</b>	<b>2,446</b>	<b>2,760</b>	<b>2,344</b>	<b>3,956</b>	<b>1,596</b>	<b>1,876</b>	<b>29,795</b>
<b>Alaska Total</b>	<b>44,029</b>	<b>34,647</b>	<b>14,525</b>	<b>18,209</b>	<b>17,299</b>	<b>20,519</b>	<b>21,877</b>	<b>26,646</b>	<b>38,565</b>	<b>31,348</b>	<b>33,725</b>	<b>202,258</b>

<sup>a</sup> Upper Copper/Upper Susitna Drainages estimates are included under the Arctic-Yukon-Kuskokwim Region starting in 1997 to reflect the shift in management responsibilities.

**Appendix A32.-Alaska sport landlocked coho salmon and chinook salmon harvests, 1988-1998, and catch, 1998, by region and area.**

Area Fished	Harvest											Catch
	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1998
<b>Southeast</b>												
Ketchikan	0	0	0	0	0	0	0	0	0	0	0	0
Prince of Wales Island	0	0	0	0	0	0	0	0	0	0	0	0
Take, Petersburg, Wrangell, Stikine	0	0	0	0	0	0	0	0	0	0	0	0
Sitka	0	0	0	0	0	0	0	0	0	0	0	0
Juneau	728	528	413	1,222	1,536	1,454	717	48	36	195	249	754
Haines-Skagway	0	0	0	0	0	0	0	0	0	0	0	0
Glacier Bay	0	0	0	0	0	0	0	0	0	0	0	0
Yakutat	0	0	0	0	0	0	0	0	0	0	0	0
<b>Total</b>	<b>728</b>	<b>528</b>	<b>413</b>	<b>1,222</b>	<b>1,536</b>	<b>1,454</b>	<b>717</b>	<b>48</b>	<b>36</b>	<b>195</b>	<b>249</b>	<b>754</b>
<b>Southcentral</b>												
Upper Copper/Upper Susitna Drainages	109	281	17	111	433	56	134	42	751			
Prince William Sound	0	0	0	0	0	0	0	0	0	0	0	0
Knik Arm Drainage	16,588	11,041	15,950	15,740	11,875	13,829	14,153	7,285	21,364	11,599	5,057	13,907
Anchorage	4,364	14,483	6,775	10,817	13,985	17,489	13,280	6,034	13,280	8,913	12,601	25,313
East Susitna River Drainage	619	536	151	14	86	738	45	33	1,986	122	320	438
West Cook Inlet-West Susitna River Drainages	0	0	0	0	0	0	0	0	0	0	0	0
Kenai Peninsula	2,929	1,154	530	1,770	4,758	4,882	3,065	686	3,385	3,613	4,385	5,929
Kodiak	0	60	52	0	151	0	0	0	0	81	64	64
Naknek River Drainage-Alaska Peninsula	0	0	0	0	0	0	0	0	0	0	0	0
Kvichak River Drainage	0	0	0	0	0	0	0	0	0	0	0	0
Nushagak	0	0	0	0	0	0	0	0	0	0	0	0
<b>Total<sup>a</sup></b>	<b>24,609</b>	<b>27,555</b>	<b>23,475</b>	<b>28,452</b>	<b>31,288</b>	<b>36,994</b>	<b>30,677</b>	<b>14,080</b>	<b>40,766</b>	<b>24,328</b>	<b>22,427</b>	<b>45,651</b>
<b>Arctic-Yukon-Kuskokwim</b>												
Upper Copper/Upper Susitna Drainages										331	477	1,708
Tanana River Drainages	32,342	18,614	13,943	22,125	14,019	15,734	10,350	8,198	13,640	6,824	11,614	33,893
Kuskokwim-Goodnews Drainages	0	0	0	0	0	0	0	0	0	0	0	0
Seward Peninsula-Norton Sound Drainages	0	0	0	0	0	0	0	0	0	0	0	0
Northwest Alaska Drainages	0	0	0	0	0	0	0	0	0	0	0	0
Yukon River Drainages	0	0	0	0	0	0	0	0	0	0	0	0
North Slope Brooks Range Drainages	0	0	0	0	0	0	0	0	0	0	0	0
<b>Total<sup>a</sup></b>	<b>32,342</b>	<b>18,614</b>	<b>13,943</b>	<b>22,125</b>	<b>14,019</b>	<b>15,734</b>	<b>10,350</b>	<b>8,198</b>	<b>13,640</b>	<b>7,155</b>	<b>12,091</b>	<b>35,601</b>
<b>Alaska Total</b>	<b>57,679</b>	<b>46,697</b>	<b>37,831</b>	<b>51,799</b>	<b>46,843</b>	<b>54,182</b>	<b>41,744</b>	<b>22,326</b>	<b>54,442</b>	<b>31,678</b>	<b>34,767</b>	<b>82,006</b>

<sup>a</sup> Upper Copper/Upper Susitna Drainages estimates are included under the Arctic-Yukon-Kuskokwim Region starting in 1997 to reflect the shift in management responsibilities.

**Appendix A33.-Alaska sport kokanee salmon harvests, 1988-1998, and catch, 1998, by region and area.**

Area Fished	Harvest											Catch
	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1998
<b>Southeast</b>												
Ketchikan	0	26	16	279	0	15	45	0	0	0	0	0
Prince of Wales Island	0	42	0	0	0	0	0	0	0	0	0	0
Kake, Petersburg, Wrangell, Stikine	0	0	0	0	22	0	0	0	0	0	0	0
Sitka	55	0	17	0	0	0	0	0	0	0	0	0
Juneau	364	239	0	47	379	191	15	0	76	29	223	770
Haines-Skagway	55	213	66	36	368	0	0	0	0	0	0	0
Glacier Bay	0	0	0	0	0	0	0	0	0	0	0	0
Yakutat	0	0	0	0	0	0	0	0	0	0	0	0
Total	474	520	99	362	769	206	60	0	76	29	223	770
<b>Southcentral</b>												
Upper Copper/Upper Susitna Drainages	637	169	153	0	0	98	54	17	0			
Prince William Sound	0	0	0	0	0	0	0	0	0	0	0	0
Knik Arm Drainage	0	227	0	170	22	0	0	0	0	0	0	0
Anchorage	186	122	0	0	0	0	0	0	0	0	0	0
East Susitna River Drainage	0	0	0	0	0	0	0	0	0	0	0	0
West Cook Inlet-West Susitna River Drainages	0	0	0	0	0	0	0	0	0	0	0	0
Kenai Peninsula	1,146	162	541	1,577	767	396	604	125	0	173	415	884
Kodiak	0	0	0	0	0	0	0	0	0	0	0	0
Naknek River Drainage-Alaska Peninsula	18	1,527	1,278	3,982	736	3,503	29	67	0	0	0	0
Kvichak River Drainage	0	0	0	0	0	0	0	0	0	0	0	0
Nushagak	0	0	0	0	0	0	0	0	0	0	0	0
Total <sup>a</sup>	1,987	2,207	1,972	5,729	1,525	3,997	687	209	0	173	415	884
<b>Arctic-Yukon-Kuskokwim</b>												
Upper Copper/Upper Susitna Drainages										0	0	0
Tanana River Drainages	0	0	0	185	184	0	0	0	0	0	0	0
Kuskokwim-Goodnews Drainages	0	0	0	0	0	0	0	0	0	0	0	0
Seward Peninsula-Norton Sound Drainages	0	0	0	0	0	0	0	0	0	0	0	0
Northwest Alaska Drainages	0	0	0	0	0	0	0	0	0	0	0	0
Yukon River Drainages	0	0	0	0	0	0	0	0	0	0	0	0
North Slope Brooks Range Drainages	0	0	0	0	0	0	0	0	0	0	0	0
Total <sup>a</sup>	0	0	0	185	184	0	0	0	0	0	0	0
<b>Alaska Total</b>	<b>2,461</b>	<b>2,727</b>	<b>2,071</b>	<b>6,276</b>	<b>2,478</b>	<b>4,203</b>	<b>747</b>	<b>209</b>	<b>76</b>	<b>202</b>	<b>638</b>	<b>1,654</b>

<sup>a</sup> Upper Copper/Upper Susitna Drainages estimates are included under the Arctic-Yukon-Kuskokwim Region starting in 1997 to reflect the shift in management responsibilities.

**Appendix A34.-Alaska sport steelhead harvests, 1988-1998, and catch, 1998, by region and area.**

Area Fished	Harvest											Catch
	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1998
<b>Southeast</b>												
Ketchikan	1,400	1,654	1,423	793	786	69	98	17	11	31	4	466
Prince of Wales Island	831	1,277	789	1,666	739	260	136	82	0	39	32	1,476
Kake, Petersburg, Wrangell, Stikine	756	609	1,046	394	390	351	233	68	35	15	63	1,013
Sitka	64	193	153	388	156	243	122	18	24	0	0	681
Juneau	265	280	240	400	258	258	47	0	24	38	0	122
Haines-Skagway	123	142	32	253	24	28	0	0	11	0	9	56
Glacier Bay	0	42	0	173	31	19	7	0	0	19	0	71
Yakutat	870	1,212	591	565	55	21	42	48	54	101	11	8,181
Total	4,309	5,409	4,274	4,632	2,439	1,249	685	233	159	243	119	12,066
<b>Southcentral</b>												
Upper Copper/Upper Susitna Drainages	91	84	34	114	8	0	7	10	0			
Prince William Sound	18	39	0	0	0	0	0	0	0	46	9	106
Knik Arm Drainage	0	0	0	0	0	0	0	0	0	0	0	0
Anchorage	0	0	0	0	0	0	0	0	0	0	0	0
East Susitna River Drainage	0	0	0	0	0	0	0	0	0	0	0	0
West Cook Inlet-West Susitna River Drainages	0	0	0	0	0	0	0	0	0	0	0	0
Kenai Peninsula	1,017	67	217	36	606	2,237	1,445	700	36	7	40	5,399
Kodiak	853	788	1,120	327	96	332	209	94	217	38	222	2,632
Naknek River Drainage-Alaska Peninsula	0	0	0	0	0	0	0	0	0	0	0	0
Kvichak River Drainage	0	0	0	0	0	0	0	0	0	0	0	0
Nushagak	0	0	0	0	0	0	0	0	0	0	0	0
Total <sup>a</sup>	1,979	978	1,371	477	710	2,569	1,661	804	253	91	271	8,137
<b>Arctic-Yukon-Kuskokwim</b>												
Upper Copper/Upper Susitna Drainages										0	0	196
Tanana River Drainages	0	0	0	0	0	0	0	0	0	0	0	0
Kuskokwim-Goodnews Drainages	0	0	0	0	0	0	0	0	0	0	0	0
Seward Peninsula-Norton Sound Drainages	0	0	0	0	0	0	0	0	0	0	0	0
Northwest Alaska Drainages	0	0	0	0	0	0	0	0	0	0	0	0
Yukon River Drainages	0	0	0	0	0	0	0	0	0	0	0	0
North Slope Brooks Range Drainages	0	0	0	0	0	0	0	0	0	0	0	0
Total <sup>a</sup>	0	0	0	0	0	0	0	0	0	0	0	196
<b>Alaska Total</b>	<b>6,288</b>	<b>6,387</b>	<b>5,645</b>	<b>5,109</b>	<b>3,149</b>	<b>3,818</b>	<b>2,346</b>	<b>1,037</b>	<b>412</b>	<b>334</b>	<b>390</b>	<b>20,399</b>

<sup>a</sup> Upper Copper/Upper Susitna Drainages estimates are included under the Arctic-Yukon-Kuskokwim Region starting in 1997 to reflect the shift in management responsibilities.

**Appendix A35.-Alaska sport rainbow trout harvests, 1988-1998, and catch, 1998, by region and area.**

Area Fished	Harvest											Catch
	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1998
<b>Southeast</b>												
Ketchikan	1,710	2,201	1,199	962	641	1,346	627	506	319	1,046	522	7,859
Prince of Wales Island	1,145	2,963	707	1,958	667	703	735	832	323	419	750	8,806
Kake, Petersburg, Wrangell, Stikine	782	197	1,014	583	601	417	297	85	105	300	615	2,952
Sitka	1,363	1,282	970	1,596	1,932	1,288	378	94	988	283	266	3,684
Juneau	491	229	241	46	372	167	0	0	96	36	180	1,115
Haines-Skagway	200	182	32	34	79	192	57	19	0	12	0	93
Glacier Bay	36	0	17	22	0	0	38	0	0	0	17	42
Yakutat	200	31	24	151	0	77	46	119	80	30	192	1,681
Total	5,927	7,085	4,204	5,352	4,292	4,190	2,178	1,655	1,911	2,126	2,542	26,232
<b>Southcentral</b>												
Upper Copper/Upper Susitna Drainages	6,695	5,835	3,924	6,868	9,373	7,245	5,808	4,671	5,076			
Prince William Sound	109	677	392	627	318	136	457	777	336	425	337	1,241
Knik Arm Drainage	58,609	44,518	30,699	39,636	27,995	21,565	22,446	14,878	21,780	25,695	17,693	66,837
Anchorage	59,864	53,197	58,435	49,303	33,317	29,112	23,631	32,874	36,148	37,145	19,761	93,443
East Susitna River Drainage	7,622	4,972	5,008	7,854	3,948	3,713	3,658	3,138	2,510	2,324	968	26,241
West Cook Inlet-West Susitna River Drainages	8,731	5,472	4,432	5,054	2,218	2,672	2,719	1,868	2,363	2,070	1,270	20,469
Kenai Peninsula	10,313	7,793	14,881	12,541	16,356	14,652	14,061	14,173	9,891	16,157	13,463	131,572
Kodiak	855	1,534	1,484	1,296	1,179	374	765	283	466	660	411	3,312
Naknek River Drainage-Alaska Peninsula	1,491	1,109	897	1,664	1,102	1,068	824	667	1,020	480	537	28,087
Kvichak River Drainage	344	977	1,462	1,590	562	898	984	613	610	1,125	802	59,600
Nushagak	1,327	1,360	1,373	1,059	1,362	877	1,031	1,030	1,614	1,473	622	35,575
Total <sup>a</sup>	155,960	127,444	122,987	127,492	97,730	82,312	76,384	74,972	81,814	87,554	55,864	466,377
<b>Arctic-Yukon-Kuskokwim</b>												
Upper Copper/Upper Susitna Drainages										2,812	5,182	22,283
Tanana River Drainages	78,345	74,675	64,143	72,024	37,547	49,693	33,400	35,625	48,975	33,833	38,292	111,974
Kuskokwim-Goodnews Drainages	1,599	757	475	774	404	486	299	429	529	1,336	523	30,450
Seward Peninsula-Norton Sound Drainages	0	0	0	0	0	0	0	0	0	0	0	0
Northwest Alaska Drainages	0	0	0	0	0	0	0	0	0	0	0	0
Yukon River Drainages	0	0	0	0	0	0	0	0	0	0	0	0
North Slope Brooks Range Drainages	0	0	0	0	0	0	0	0	0	0	0	0
Total <sup>a</sup>	79,944	75,432	64,618	72,798	37,951	50,179	33,699	36,054	49,504	37,981	43,997	164,707
<b>Alaska Total</b>	<b>241,831</b>	<b>209,961</b>	<b>191,809</b>	<b>205,642</b>	<b>139,973</b>	<b>136,681</b>	<b>112,261</b>	<b>112,681</b>	<b>133,229</b>	<b>127,661</b>	<b>102,403</b>	<b>657,316</b>

<sup>a</sup> Upper Copper/Upper Susitna Drainages estimates are included under the Arctic-Yukon-Kuskokwim Region starting in 1997 to reflect the shift in management responsibilities.

**Appendix A36.-Alaska sport cutthroat trout harvests, 1988-1998, and catch, 1998, by region and area.**

Area Fished	Harvest											Catch
	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1998
<b>Southeast</b>												
Ketchikan	4,909	3,780	3,739	2,456	1,721	2,480	821	643	1,176	630	606	8,896
Prince of Wales Island	2,130	4,553	2,535	1,292	1,987	987	1,118	1,429	878	450	1,310	14,436
Kake, Petersburg, Wrangell, Stikine	2,475	3,555	3,725	1,823	3,746	3,357	1,597	588	876	681	1,282	6,046
Sitka	1,327	2,167	1,532	1,058	1,784	2,263	1,297	907	351	705	684	7,432
Juneau	4,402	3,057	2,873	1,774	2,564	5,516	1,261	772	1,130	847	577	6,697
Haines-Skagway	801	1,531	1,130	817	944	530	337	180	329	500	337	731
Glacier Bay	36	218	67	65	193	95	0	28	206	104	31	204
Yakutat	237	0	59	387	18	123	45	0	0	10	25	487
<b>Total</b>	<b>16,317</b>	<b>18,861</b>	<b>15,660</b>	<b>9,672</b>	<b>12,957</b>	<b>15,351</b>	<b>6,476</b>	<b>4,547</b>	<b>4,946</b>	<b>3,927</b>	<b>4,852</b>	<b>44,929</b>
<b>Southcentral</b>												
Upper Copper/Upper Susitna Drainages	0	0	0	0	0	0	0	0	0			
Prince William Sound	619	1,511	523	416	1,015	940	612	122	707	642	717	3,279
Knik Arm Drainage	0	0	0	0	0	0	0	0	0	0	0	0
Anchorage	0	0	0	0	0	0	0	0	0	0	0	0
East Susitna River Drainage	0	0	0	0	0	0	0	0	0	0	0	0
West Cook Inlet-West Susitna River Drainages	0	0	0	0	0	0	0	0	0	0	0	0
Kenai Peninsula	0	0	0	0	0	0	0	0	0	0	0	0
Kodiak	0	0	0	0	0	0	0	0	0	0	0	0
Naknek River Drainage-Alaska Peninsula	0	0	0	0	0	0	0	0	0	0	0	0
Kvichak River Drainage	0	0	0	0	0	0	0	0	0	0	0	0
Nushagak	0	0	0	0	0	0	0	0	0	0	0	0
<b>Total<sup>a</sup></b>	<b>619</b>	<b>1,511</b>	<b>523</b>	<b>416</b>	<b>1,015</b>	<b>940</b>	<b>612</b>	<b>122</b>	<b>707</b>	<b>642</b>	<b>717</b>	<b>3,279</b>
<b>Arctic-Yukon-Kuskokwim</b>												
Upper Copper/Upper Susitna Drainages										0	0	0
Tanana River Drainages	0	0	0	0	0	0	0	0	0	0	0	0
Kuskokwim-Goodnews Drainages	0	0	0	0	0	0	0	0	0	0	0	0
Seward Peninsula-Norton Sound Drainages	0	0	0	0	0	0	0	0	0	0	0	0
Northwest Alaska Drainages	0	0	0	0	0	0	0	0	0	0	0	0
Yukon River Drainages	0	0	0	0	0	0	0	0	0	0	0	0
North Slope Brooks Range Drainages	0	0	0	0	0	0	0	0	0	0	0	0
<b>Total<sup>a</sup></b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>Alaska Total</b>	<b>16,936</b>	<b>20,372</b>	<b>16,183</b>	<b>10,088</b>	<b>13,972</b>	<b>16,291</b>	<b>7,088</b>	<b>4,669</b>	<b>5,653</b>	<b>4,569</b>	<b>5,569</b>	<b>48,208</b>

<sup>a</sup> Upper Copper/Upper Susitna Drainages estimates are included under the Arctic-Yukon-Kuskokwim Region starting in 1997 to reflect the shift in management responsibilities.



**Appendix A37.-Alaska sport brook trout harvests, 1988-1998, and catch, 1998, by region and area.**

Area Fished	Harvest											Catch
	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1998
<b>Southeast</b>												
Ketchikan	109	195	16	25	97	67	107	85	0	6	0	1,177
Prince of Wales Island	0	0	0	0	0	0	0	0	0	0	0	0
Kake, Petersburg, Wrangell, Stikine	0	59	16	178	0	22	9	0	37	0	0	46
Sitka	655	352	307	66	118	134	71	189	73	0	0	758
Juneau	436	169	17	114	292	182	232	0	113	6	0	101
Haines-Skagway	73	112	94	94	519	357	62	0	0	155	10	1,363
Glacier Bay	0	0	0	0	0	0	0	0	0	0	0	0
Yakutat	0	0	0	0	0	0	0	0	0	0	0	0
<b>Total</b>	<b>1,273</b>	<b>887</b>	<b>450</b>	<b>477</b>	<b>1,026</b>	<b>762</b>	<b>481</b>	<b>274</b>	<b>223</b>	<b>167</b>	<b>10</b>	<b>3,445</b>
<b>Southcentral</b>												
Upper Copper/Upper Susitna Drainages	0	0	0	0	0	0	0	0	0			
Prince William Sound	0	0	0	0	0	0	0	0	0	0	0	0
Knik Arm Drainage	0	0	0	0	0	0	0	0	0	0	0	0
Anchorage	0	0	0	0	0	0	0	0	0	0	0	0
East Susitna River Drainage	0	0	0	0	0	0	0	0	0	0	0	0
West Cook Inlet-West Susitna River Drainages	0	0	0	0	0	0	0	0	0	0	0	0
Kenai Peninsula	0	0	0	0	0	0	0	0	0	0	0	0
Kodiak	0	0	0	0	0	0	0	0	0	0	0	0
Naknek River Drainage-Alaska Peninsula	0	0	0	0	0	0	0	0	0	0	0	0
Kvichak River Drainage	0	0	0	0	0	0	0	0	0	0	0	0
Nushagak	0	0	0	0	0	0	0	0	0	0	0	0
<b>Total<sup>a</sup></b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>Arctic-Yukon-Kuskokwim</b>												
Upper Copper/Upper Susitna Drainages										0	0	0
Tanana River Drainages	0	0	0	0	0	0	0	0	0	0	0	0
Kuskokwim-Goodnews Drainages	0	0	0	0	0	0	0	0	0	0	0	0
Seward Peninsula-Norton Sound Drainages	0	0	0	0	0	0	0	0	0	0	0	0
Northwest Alaska Drainages	0	0	0	0	0	0	0	0	0	0	0	0
Yukon River Drainages	0	0	0	0	0	0	0	0	0	0	0	0
North Slope Brooks Range Drainages	0	0	0	0	0	0	0	0	0	0	0	0
<b>Total<sup>a</sup></b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>Alaska Total</b>	<b>1,273</b>	<b>887</b>	<b>450</b>	<b>477</b>	<b>1,026</b>	<b>762</b>	<b>481</b>	<b>274</b>	<b>223</b>	<b>167</b>	<b>10</b>	<b>3,445</b>

<sup>a</sup> Upper Copper/Upper Susitna Drainages estimates are included under the Arctic-Yukon-Kuskokwim Region starting in 1997 to reflect the shift in management responsibilities.

**Appendix A38.- Alaska sport lake trout harvests, 1988-1998, and catch, 1998, by region and area.**

Area Fished	Harvest											Catch
	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1998
<b>Southeast</b>												
Ketchikan	0	0	0	0	0	0	0	0	0	0	0	0
Prince of Wales Island	0	0	0	0	0	0	0	0	0	0	0	0
Kake, Petersburg, Wrangell, Stikine	0	0	0	0	0	0	0	0	0	0	0	0
Sitka	0	0	0	0	0	0	0	0	0	0	0	0
Juneau	0	0	0	0	0	0	0	0	0	0	0	0
Haines-Skagway	0	0	0	0	0	0	0	0	0	0	0	0
Glacier Bay	0	0	0	0	0	0	0	0	0	0	0	0
Yakutat	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0	0	0
<b>Southcentral</b>												
Upper Copper/Upper Susitna Drainages	6,277	7,147	5,503	4,864	4,251	4,569	4,058	2,934	2,632			
Prince William Sound	73	310	49	154	0	126	0	20	0	0	0	0
Knik Arm Drainage	1,911	835	1,067	512	840	201	66	118	76	20	68	83
Anchorage	0	0	0	0	0	0	0	0	0	0	0	0
East Susitna River Drainage	291	1,210	387	726	495	288	239	254	308	189	217	535
West Cook Inlet-West Susitna River Drainages	327	352	202	289	363	296	190	143	120	424	82	210
Kenai Peninsula	4,113	2,002	2,566	3,443	3,378	3,805	3,186	2,887	3,540	2,216	2,415	4,150
Kodiak	0	0	0	0	0	0	0	0	0	0	0	0
Naknek River Drainage-Alaska Peninsula	326	320	143	272	264	325	500	243	458	444	165	847
Kvichak River Drainage	254	696	656	324	642	575	964	258	390	338	219	1,992
Nushagak	891	593	286	155	101	311	340	223	356	566	162	1,642
Total <sup>a</sup>	14,463	13,465	10,859	10,739	10,334	10,496	9,543	7,080	7,880	4,197	3,328	9,459
<b>Arctic-Yukon-Kuskokwim</b>												
Upper Copper/Upper Susitna Drainages										1,923	1,723	8,184
Tanana River Drainages	2,221	1,650	896	1,978	993	1,939	1,582	887	877	832	524	2,736
Kuskokwim-Goodnews Drainages	181	1,086	72	272	356	218	40	215	135	404	131	951
Seward Peninsula-Norton Sound Drainages	0	0	0	0	0	0	0	0	0	0	0	0
Northwest Alaska Drainages	255	115	387	173	270	234	77	126	166	73	31	111
Yukon River Drainages	0	272	220	434	193	101	59	66	9	0	27	74
North Slope Brooks Range Drainages	73	482	168	176	379	106	73	38	19	57	221	1,292
Total <sup>a</sup>	2,730	3,605	1,743	3,033	2,191	2,598	1,831	1,332	1,206	3,289	2,657	13,348
<b>Alaska Total</b>	<b>17,193</b>	<b>17,070</b>	<b>12,602</b>	<b>13,772</b>	<b>12,525</b>	<b>13,094</b>	<b>11,374</b>	<b>8,412</b>	<b>9,086</b>	<b>7,486</b>	<b>5,985</b>	<b>22,807</b>

<sup>a</sup> Upper Copper/Upper Susitna Drainages estimates are included under the Arctic-Yukon-Kuskokwim Region starting in 1997 to reflect the shift in management responsibilities.

**Appendix A39.-Alaska sport Dolly Varden and Arctic char harvests, 1988-1998, and catch, 1998, by region and area.**

Area Fished	Harvest											Catch
	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1998
<b>Southeast</b>												
Ketchikan	3,256	2,098	2,269	2,143	928	2,366	1,228	175	2,456	987	1,742	7,107
Prince of Wales Island	2,946	6,007	1,611	1,646	1,318	1,872	865	1,231	3,406	1,547	1,562	15,374
Kake, Petersburg, Wrangell, Stikine	4,166	4,458	5,013	2,365	2,948	1,265	1,655	1,072	1,623	1,207	1,467	8,557
Sitka	9,950	5,713	5,465	3,539	4,093	2,808	2,290	2,202	2,317	2,305	3,801	15,860
Juneau	15,878	13,987	12,233	11,929	7,201	7,923	5,189	6,358	5,282	6,407	5,124	36,432
Haines-Skagway	20,082	16,116	18,885	21,867	7,185	8,639	4,625	4,278	5,520	5,673	3,957	10,143
Glacier Bay	1,801	2,067	747	1,209	1,434	1,028	1,535	1,443	613	2,787	1,845	6,333
Yakutat	1,292	1,190	2,077	1,256	1,131	992	1,171	964	1,230	809	2,253	9,944
<b>Total</b>	<b>59,371</b>	<b>51,636</b>	<b>48,300</b>	<b>45,954</b>	<b>26,238</b>	<b>26,893</b>	<b>18,558</b>	<b>17,723</b>	<b>22,447</b>	<b>21,722</b>	<b>21,751</b>	<b>109,750</b>
<b>Southcentral</b>												
Upper Copper/Upper Susitna Drainages	5,185	3,979	3,159	2,140	1,997	3,173	1,598	1,695	2,575			
Prince William Sound	2,619	4,336	2,698	3,354	3,382	3,156	1,383	1,248	3,848	2,167	1,732	7,683
Knik Arm Drainage	11,314	8,161	8,746	9,138	4,186	3,686	3,532	2,109	5,606	4,639	2,425	10,699
Anchorage	3,636	2,646	2,208	2,539	3,269	1,793	2,500	1,633	1,994	1,590	1,895	9,397
East Susitna River Drainage	4,748	3,040	3,613	2,140	2,394	1,413	1,033	1,012	2,027	906	889	8,119
West Cook Inlet-West Susitna River Drainages	1,656	1,829	1,500	2,809	1,015	915	768	1,430	1,463	1,175	457	4,214
Kenai Peninsula	24,235	23,070	28,084	28,018	30,131	30,130	22,311	20,748	17,311	18,815	16,743	128,833
Kodiak	18,663	14,266	14,235	12,794	7,389	6,299	5,981	6,469	11,356	8,116	8,048	48,696
Naknek River Drainage-Alaska Peninsula	5,056	5,256	8,313	10,364	5,988	5,752	2,932	3,792	3,715	3,611	2,420	28,437
Kvichak River Drainage	526	615	952	1,183	868	866	1,006	678	1,024	2,121	459	7,762
Nushagak	1,346	3,021	2,484	2,390	2,752	2,539	2,212	2,259	3,310	3,328	2,540	40,541
<b>Total<sup>a</sup></b>	<b>78,984</b>	<b>70,219</b>	<b>75,992</b>	<b>76,869</b>	<b>63,371</b>	<b>59,722</b>	<b>45,256</b>	<b>43,073</b>	<b>54,229</b>	<b>46,468</b>	<b>37,608</b>	<b>294,381</b>
<b>Arctic-Yukon-Kuskokwim</b>												
Upper Copper/Upper Susitna Drainages										1,092	1,589	4,156
Tanana River Drainages	909	913	830	2,891	2,088	3,873	1,799	2,736	3,261	2,530	3,996	9,536
Kuskokwim-Goodnews Drainages	3,764	3,545	1,797	2,924	802	1,499	1,398	1,260	1,965	3,337	1,581	65,720
Seward Peninsula-Norton Sound Drainages	4,855	7,058	3,948	10,365	2,382	5,907	3,071	2,908	4,285	4,467	2,240	5,711
Northwest Alaska Drainages	983	999	806	1,717	682	914	2,365	939	913	598	440	8,606
Yukon River Drainages	618	726	391	675	672	528	488	122	881	344	205	1,991
North Slope Brooks Range Drainages	1,018	1,031	489	1,199	836	1,092	598	896	1,108	1,018	1,454	7,716
<b>Total<sup>a</sup></b>	<b>12,147</b>	<b>14,272</b>	<b>8,261</b>	<b>19,771</b>	<b>7,462</b>	<b>13,813</b>	<b>9,719</b>	<b>8,861</b>	<b>12,413</b>	<b>13,386</b>	<b>11,505</b>	<b>103,436</b>
<b>Alaska Total</b>	<b>150,502</b>	<b>136,127</b>	<b>132,553</b>	<b>142,594</b>	<b>97,071</b>	<b>100,428</b>	<b>73,533</b>	<b>69,657</b>	<b>89,089</b>	<b>81,576</b>	<b>70,864</b>	<b>507,567</b>

<sup>a</sup> Upper Copper/Upper Susitna Drainages estimates are included under the Arctic-Yukon-Kuskokwim Region starting in 1997 to reflect the shift in management responsibilities.

**Appendix A40.-Alaska sport Arctic grayling harvests, 1988-1998, and catch, 1998, by region and area.**

Area Fished	Harvest											Catch
	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1998
<b>Southeast</b>												
Ketchikan	36	182	224	0	91	0	0	0	0	0	25	1,178
Prince of Wales Island	0	0	0	0	0	0	0	0	0	0	0	0
Kake, Petersburg, Wrangell, Stikine	73	0	81	0	98	0	0	0	0	0	0	0
Sitka	418	11	0	18	8	95	53	9	12	0	8	16
Juneau	0	0	0	0	0	0	24	0	0	0	0	493
Haines-Skagway	0	0	63	63	225	0	0	0	291	0	25	25
Glacier Bay	0	0	0	0	0	0	0	0	0	0	0	0
Yakutat	0	21	0	0	90	0	0	0	0	0	0	0
Total	527	214	368	81	512	95	77	9	303	0	58	1,712
<b>Southcentral</b>												
Upper Copper/Upper Susitna Drainages	21,937	16,629	13,775	13,278	11,125	12,504	14,066	14,289	10,534			
Prince William Sound	182	368	294	497	77	283	318	139	131	119	15	534
Knik Arm Drainage	8,367	5,429	3,068	2,846	2,511	1,343	2,898	818	1,940	1,938	1,300	6,874
Anchorage	1,001	66	576	238	413	233	634	89	293	68	59	1,582
East Susitna River Drainage	6,020	4,562	2,910	3,875	2,189	2,401	3,484	1,486	1,913	1,387	1,413	15,487
West Cook Inlet-West Susitna River Drainages	4,275	2,247	2,192	3,393	1,647	1,422	1,662	895	1,871	1,100	1,007	8,850
Kenai Peninsula	1,273	1,133	913	1,472	775	1,268	1,636	1,863	1,071	1,318	897	10,455
Kodiak	182	189	86	98	120	16	41	0	0	0	0	0
Naknek River Drainage-Alaska Peninsula	708	1,089	416	649	482	682	352	227	301	530	233	12,193
Kvichak River Drainage	599	1,068	998	1,146	1,519	1,459	2,418	1,104	1,576	2,994	1,726	27,527
Nushagak	2,347	838	1,712	2,904	1,399	2,175	2,740	1,964	2,019	2,422	1,126	37,071
Total <sup>a</sup>	46,891	33,618	26,940	30,396	22,257	23,786	30,249	22,874	21,649	11,876	7,776	120,573
<b>Arctic-Yukon-Kuskokwim</b>												
Upper Copper/Upper Susitna Drainages										8,583	8,275	71,625
Tanana River Drainages	51,803	53,791	28,414	33,778	14,983	17,658	24,741	16,089	15,199	16,570	11,687	244,017
Kuskokwim-Goodnews Drainages	2,440	2,622	1,340	2,603	545	739	850	845	977	1,292	3,469	38,856
Seward Peninsula-Norton Sound Drainages	4,928	4,205	1,378	5,121	492	1,584	1,331	1,037	1,485	1,261	298	12,408
Northwest Alaska Drainages	2,692	1,415	622	1,981	968	916	814	910	2,136	1,903	1,788	7,196
Yukon River Drainages	6,115	7,491	4,961	5,570	4,171	3,330	4,574	3,421	4,000	3,456	3,912	18,318
North Slope Brooks Range Drainages	983	2,113	791	3,301	1,145	1,632	807	983	1,194	903	1,182	7,529
Total <sup>a</sup>	68,961	71,637	37,506	52,354	22,304	25,859	33,117	23,285	24,991	33,968	30,611	399,949
<b>Alaska Total</b>	<b>116,379</b>	<b>105,469</b>	<b>64,814</b>	<b>82,831</b>	<b>45,073</b>	<b>49,740</b>	<b>63,443</b>	<b>46,168</b>	<b>46,943</b>	<b>45,844</b>	<b>38,445</b>	<b>522,234</b>

<sup>a</sup> Upper Copper/Upper Susitna Drainages estimates are included under the Arctic-Yukon-Kuskokwim Region starting in 1997 to reflect the shift in management responsibilities.

**Appendix A41.-Alaska sport northern pike harvests, 1988-1998, and catch, 1998, by region and area.**

Area Fished	Harvest											Catch
	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1998
<b>Southeast</b>												
Ketchikan	0	0	0	0	0	0	0	0	0	0	0	0
Prince of Wales Island	0	0	0	0	0	0	0	0	0	0	0	0
Kake, Petersburg, Wrangell, Stikine	0	0	0	0	0	0	0	0	0	0	0	0
Sitka	0	0	0	0	0	0	0	0	0	0	0	0
Juneau	0	0	0	0	0	0	0	0	0	0	0	0
Haines-Skagway	0	0	0	0	0	0	0	0	0	0	0	0
Glacier Bay	0	0	0	0	0	0	0	0	0	0	0	0
Yakutat	18	42	0	136	0	0	0	0	0	0	0	0
Total	18	42	0	136	0	0	0	0	0	0	0	0
<b>Southcentral</b>												
Upper Copper/Upper Susitna Drainages	0	0	0	0	0	0	0	0	0			
Prince William Sound	0	0	0	0	0	0	0	0	0	0	0	0
Knik Arm Drainage	364	863	754	2,709	2,605	2,102	1,328	522	4,021	4,858	4,272	10,223
Anchorage	0	0	0	0	0	0	0	0	183	220	337	551
East Susitna River Drainage	0	0	0	0	0	0	0	0	11	95	130	130
West Cook Inlet-West Susitna River Drainages	2,818	2,257	2,088	3,931	2,777	3,619	2,565	3,024	3,988	4,236	3,807	18,837
Kenai Peninsula	36	67	40	86	239	242	36	248	177	28	114	121
Kodiak	0	0	0	0	0	0	0	0	0	0	0	0
Naknek River Drainage-Alaska Peninsula	36	154	208	93	256	130	709	165	724	291	235	2,041
Kvichak River Drainage	18	211	191	635	658	291	372	334	617	148	311	2,975
Nushagak	326	882	374	1,250	779	747	790	1,030	782	613	389	5,880
Total <sup>a</sup>	3,598	4,434	3,655	8,704	7,314	7,131	5,800	5,323	10,503	10,489	9,595	40,758
<b>Arctic-Yukon-Kuskokwim</b>												
Upper Copper/Upper Susitna Drainages										0	0	0
Tanana River Drainages	11,823	11,170	7,348	12,476	6,148	7,712	16,299	10,620	8,327	3,328	2,870	18,385
Kuskokwim-Goodnews Drainages	2,346	1,785	231	2,018	752	995	828	655	871	408	1,430	5,704
Seward Peninsula-Norton Sound Drainages	564	648	1,957	1,429	479	537	376	215	728	363	75	452
Northwest Alaska Drainages	1,565	64	320	394	333	559	287	256	112	145	195	1,104
Yukon River Drainages	3,526	3,516	2,474	4,454	3,590	2,347	1,968	1,937	2,502	1,870	1,452	12,349
North Slope Brooks Range Drainages	0	0	0	0	0	85	0	0	0	0	0	0
Total <sup>a</sup>	19,824	17,183	12,330	20,771	11,302	12,235	19,758	13,683	12,540	6,114	6,022	37,994
<b>Alaska Total</b>	<b>23,440</b>	<b>21,659</b>	<b>15,985</b>	<b>29,611</b>	<b>18,616</b>	<b>19,366</b>	<b>25,558</b>	<b>19,006</b>	<b>23,043</b>	<b>16,603</b>	<b>15,617</b>	<b>78,752</b>

<sup>a</sup> Upper Copper/Upper Susitna Drainages estimates are included under the Arctic-Yukon-Kuskokwim Region starting in 1997 to reflect the shift in management responsibilities.

**Appendix A42.-Alaska sport whitefish harvests, 1988-1998, and catch, 1998, by region and area.**

Area Fished	Harvest											Catch
	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1998
<b>Southeast</b>												
Ketchikan	0	0	0	0	0	0	0	0	0	0	0	0
Prince of Wales Island	0	0	0	0	0	0	0	0	0	0	0	0
Kake, Petersburg, Wrangell, Stikine	0	0	0	0	0	0	0	0	0	0	0	0
Sitka	0	0	0	0	0	0	0	0	0	0	0	0
Juneau	0	0	0	0	0	0	0	0	0	0	0	0
Haines-Skagway	91	61	16	60	18	0	0	0	0	4	0	0
Glacier Bay	0	0	0	0	0	0	0	0	0	0	0	0
Yakutat	0	0	0	0	0	0	0	0	0	0	0	0
Total	91	61	16	60	18	0	0	0	0	4	0	0
<b>Southcentral</b>												
Upper Copper/Upper Susitna Drainages	2,474	2,991	1,784	717	1,150	815	1,149	898	384			
Prince William Sound	0	0	0	0	46	0	0	0	0	0	0	0
Knik Arm Drainage	1,163	844	622	900	257	227	242	71	16	96	356	480
Anchorage	0	0	181	7	0	0	0	0	0	0	0	0
East Susitna River Drainage	546	442	1,378	626	265	87	172	80	0	32	96	660
West Cook Inlet-West Susitna River Drainages	1,419	430	1,516	531	340	564	779	76	160	86	114	456
Kenai Peninsula	863	415	912	560	432	396	249	357	131	115	96	715
Kodiak	0	0	0	0	0	0	0	0	0	0	0	0
Naknek River Drainage-Alaska Peninsula	18	30	17	40	55	0	39	0	80	0	16	170
Kvichak River Drainage	54	60	618	136	221	95	159	266	392	690	533	940
Nushagak	54	132	850	315	101	296	211	119	52	361	263	727
Total <sup>a</sup>	6,591	5,344	7,878	3,832	2,867	2,480	3,000	1,867	1,215	1,380	1,474	4,148
<b>Arctic-Yukon-Kuskokwim</b>												
Upper Copper/Upper Susitna Drainages										134	584	1,612
Tanana River Drainages	11,620	16,935	6,891	739	3,246	984	940	493	412	1,062	853	1,686
Kuskokwim-Goodnews Drainages	473	571	88	158	286	253	183	0	0	614	1,220	2,087
Seward Peninsula-Norton Sound Drainages	673	453	299	1,357	46	95	67	247	64	212	0	288
Northwest Alaska Drainages	236	619	84	260	9	238	117	156	160	419	100	1,062
Yukon River Drainages	610	245	322	422	248	173	89	82	160	398	121	415
North Slope Brooks Range Drainages	18	109	17	0	18	0	58	18	36	0	0	16
Total <sup>a</sup>	13,630	18,932	7,701	2,936	3,853	1,743	1,454	996	832	2,839	2,878	7,166
<b>Alaska Total</b>	<b>20,312</b>	<b>24,337</b>	<b>15,595</b>	<b>6,828</b>	<b>6,738</b>	<b>4,223</b>	<b>4,454</b>	<b>2,863</b>	<b>2,047</b>	<b>4,223</b>	<b>4,352</b>	<b>11,314</b>

<sup>a</sup> Upper Copper/Upper Susitna Drainages estimates are included under the Arctic-Yukon-Kuskokwim Region starting in 1997 to reflect the shift in management responsibilities.

**Appendix A43.-Alaska sport burbot harvests, 1988-1998, and catch, 1998, by region and area.**

Area Fished	Harvest											Catch
	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1998
<b>Southeast</b>												
Ketchikan	0	0	0	0	0	0	0	0	0	0	0	0
Prince of Wales Island	0	0	0	0	0	0	0	0	0	0	0	0
Kake, Petersburg, Wrangell, Stikine	0	0	0	0	0	0	0	0	0	0	0	0
Sitka	0	0	0	0	0	0	0	0	0	0	0	0
Juneau	0	0	0	0	0	0	0	0	0	0	0	0
Haines-Skagway	0	0	0	0	0	0	0	0	0	0	0	0
Glacier Bay	0	0	0	0	0	0	0	0	0	0	0	0
Yakutat	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0	0	0
<b>Southcentral</b>												
Upper Copper/Upper Susitna Drainages	3,747	3,396	1,836	793	1,495	1,694	2,869	995	981			
Prince William Sound	0	0	0	0	0	0	0	0	0	0	0	0
Knik Arm Drainage	291	372	262	477	500	482	512	151	218	709	121	478
Anchorage	0	0	0	0	0	0	0	0	0	0	0	0
East Susitna River Drainage	600	395	1,345	407	608	909	674	517	284	304	208	470
West Cook Inlet-West Susitna River Drainages	944	211	1,534	97	304	264	1,090	190	396	861	1,029	1,207
Kenai Peninsula	0	0	0	0	85	43	10	0	0	26	0	0
Kodiak	0	0	0	0	0	0	0	0	0	0	0	0
Naknek River Drainage-Alaska Peninsula	0	0	0	0	0	0	0	0	0	1,327	8	17
Kvichak River Drainage	18	0	100	53	0	0	10	0	138	348	212	221
Nushagak	0	0	17	0	0	0	0	0	13	0	0	0
Total <sup>a</sup>	5,600	4,374	5,094	1,827	2,992	3,392	5,165	1,853	2,030	3,575	1,578	2,393
<b>Arctic-Yukon-Kuskokwim</b>												
Upper Copper/Upper Susitna Drainages										1,358	1,485	2,849
Tanana River Drainages	3,733	4,357	3,799	2,739	3,620	5,717	5,165	4,934	3,203	6,348	3,291	4,579
Kuskokwim-Goodnews Drainages	91	12	1,125	40	169	214	20	0	0	0	136	307
Seward Peninsula-Norton Sound Drainages	36	10	33	116	0	96	0	45	179	148	84	93
Northwest Alaska Drainages	0	0	0	0	17	139	20	11	185	345	150	150
Yukon River Drainages	18	367	509	160	422	279	145	216	203	415	133	149
North Slope Brooks Range Drainages	0	148	17	0	25	21	353	69	41	0	25	42
Total <sup>a</sup>	3,878	4,894	5,483	3,055	4,253	6,466	5,703	5,275	3,811	8,614	5,304	8,169
<b>Alaska Total</b>	<b>9,478</b>	<b>9,268</b>	<b>10,577</b>	<b>4,882</b>	<b>7,245</b>	<b>9,858</b>	<b>10,868</b>	<b>7,128</b>	<b>5,841</b>	<b>12,189</b>	<b>6,882</b>	<b>10,562</b>

<sup>a</sup> Upper Copper/Upper Susitna Drainages estimates are included under the Arctic-Yukon-Kuskokwim Region starting in 1997 to reflect the shift in management responsibilities.

**Appendix A44.-Alaska sport sheefish harvests, 1988-1998, and catch, 1998, by region and area.**

Area Fished	Harvest											Catch
	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1998
<b>Southeast</b>												
Ketchikan	0	0	0	0	0	0	0	0	0	0	0	0
Prince of Wales Island	0	0	0	0	0	0	0	0	0	0	0	0
Kake, Petersburg, Wrangell, Stikine	0	0	0	0	0	0	0	0	0	0	0	0
Sitka	0	0	0	0	0	0	0	0	0	0	0	0
Juneau	0	0	0	0	0	0	0	0	0	0	0	0
Haines-Skagway	0	0	0	0	0	0	0	0	0	0	0	0
Glacier Bay	0	0	0	0	0	0	0	0	0	0	0	0
Yakutat	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0	0	0
<b>Southcentral</b>												
Upper Copper/Upper Susitna Drainages	0	0	0	0	0	0	0	0	0			
Prince William Sound	0	0	0	0	0	0	0	0	0	0	0	0
Knik Arm Drainage	0	0	0	0	0	0	0	0	0	0	0	0
Anchorage	0	0	0	0	0	0	0	0	0	0	0	0
East Susitna River Drainage	0	0	0	0	0	0	0	0	0	0	0	0
West Cook Inlet-West Susitna River Drainages	0	0	0	0	0	0	0	0	0	0	0	0
Kenai Peninsula	0	0	0	0	0	0	0	0	0	0	0	0
Kodiak	0	0	0	0	0	0	0	0	0	0	0	0
Naknek River Drainage-Alaska Peninsula	0	0	0	0	0	0	0	0	0	0	0	0
Kvichak River Drainage	0	0	0	0	0	0	0	0	0	0	0	0
Nushagak	0	0	0	0	0	0	0	0	0	0	0	0
Total <sup>a</sup>	0	0	0	0	0	0	0	0	0	0	0	0
<b>Arctic-Yukon-Kuskokwim</b>												
Upper Copper/Upper Susitna Drainages										0	0	0
Tanana River Drainages	964	554	169	158	184	100	166	310	231	35	24	103
Kuskokwim-Goodnews Drainages	637	296	107	154	292	54	390	272	107	589	119	1,708
Seward Peninsula-Norton Sound Drainages	0	0	0	0	0	0	0	0	73	0	0	0
Northwest Alaska Drainages	964	629	151	603	1,904	1,029	564	1,142	485	906	414	924
Yukon River Drainages	656	757	323	1,341	553	436	391	476	606	231	258	568
North Slope Brooks Range Drainages	0	70	0	0	0	0	0	0	0	0	0	0
Total <sup>a</sup>	3,221	2,306	750	2,256	2,933	1,619	1,511	2,200	1,502	1,761	815	3,303
<b>Alaska Total</b>	<b>3,221</b>	<b>2,306</b>	<b>750</b>	<b>2,256</b>	<b>2,933</b>	<b>1,619</b>	<b>1,511</b>	<b>2,200</b>	<b>1,502</b>	<b>1,761</b>	<b>815</b>	<b>3,303</b>

<sup>a</sup> Upper Copper/Upper Susitna Drainages estimates are included under the Arctic-Yukon-Kuskokwim Region starting in 1997 to reflect the shift in management responsibilities.



**Appendix A45.-Alaska sport smelt harvests, 1988-1998, and catch, 1998, by region and area.**

Area Fished	Harvest											Catch
	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1998
<b>Southeast</b>												
Ketchikan	0	0	0	0	0	0	0	0	0	0	0	0
Prince of Wales Island	0	0	82	0	87	60	70	0	0	0	1,078	1,078
Kake, Petersburg, Wrangell, Stikine	1,702	2,257	0	0	54	131	138	791	666	4,205	2,137	2,137
Sitka	681	1,052	1,721	564	1,709	385	150	113	0	0	323	323
Juneau	0	294	172	24	1,558	0	117	0	0	273	180	180
Haines-Skagway	1,392	586	0	5,584	33,532	1,677	556	0	327	0	150	150
Glacier Bay	0	375	0	0	0	0	0	0	0	0	0	0
Yakutat	3,094	0	1,703	30	0	121	1,766	0	291	0	0	0
<b>Total</b>	<b>6,869</b>	<b>4,564</b>	<b>3,678</b>	<b>6,202</b>	<b>36,940</b>	<b>2,374</b>	<b>2,797</b>	<b>904</b>	<b>1,284</b>	<b>4,478</b>	<b>3,868</b>	<b>3,868</b>
<b>Southcentral</b>												
Upper Copper/Upper Susitna Drainages	0	0	0	0	0	0	0	0	0			
Prince William Sound	3,713	64	3,386	273	4,123	1,453	198	0	972	593	3,194	3,194
Knik Arm Drainage	0	0	0	0	0	0	2,292	0	0	0	0	3,745
Anchorage	139,508	103,881	133,027	69,257	42,964	29,865	49,279	34,058	21,212	39,071	33,637	33,637
East Susitna River Drainage	0	0	0	0	0	0	0	0	0	0	0	0
West Cook Inlet-West Susitna River Drainages	8,849	2,324	5,810	6,132	15,523	6,596	13,330	4,549	13,451	8,853	8,376	8,376
Kenai Peninsula	18,378	33,140	41,029	6,987	24,068	8,227	8,056	4,553	7,612	13,561	18,850	19,730
Kodiak	0	0	0	0	140	67	0	0	727	0	0	0
Naknek River Drainage-Alaska Peninsula	30,321	4,456	3,172	15,249	15,858	5,423	12,481	2,761	1,476	5,217	6,519	6,519
Kvichak River Drainage	0	0	0	0	0	0	0	0	0	0	0	0
Nushagak	31	56,973	2,257	5,916	6,923	3,790	10,188	4,814	11,560	2,890	2,552	2,552
<b>Total<sup>a</sup></b>	<b>200,800</b>	<b>200,838</b>	<b>188,681</b>	<b>103,814</b>	<b>109,599</b>	<b>55,421</b>	<b>95,824</b>	<b>50,735</b>	<b>57,010</b>	<b>70,185</b>	<b>73,128</b>	<b>77,753</b>
<b>Arctic-Yukon-Kuskokwim</b>												
Upper Copper/Upper Susitna Drainages										0	0	0
Tanana River Drainages	0	0	0	0	0	0	0	0	0	0	0	0
Kuskokwim-Goodnews Drainages	248	1,324	211	0	1,136	3,343	2,292	633	2,181	27	3,333	3,446
Seward Peninsula-Norton Sound Drainages	2,228	410	995	1,699	865	335	5,157	633	174	2,801	0	0
Northwest Alaska Drainages	0	261	0	119	0	22	57	0	218	0	0	0
Yukon River Drainages	0	0	0	0	0	0	0	0	0	0	0	0
North Slope Brooks Range Drainages	0	429	503	0	0	0	0	0	0	0	0	0
<b>Total<sup>a</sup></b>	<b>2,476</b>	<b>2,424</b>	<b>1,709</b>	<b>1,818</b>	<b>2,001</b>	<b>3,700</b>	<b>7,506</b>	<b>1,266</b>	<b>2,573</b>	<b>2,828</b>	<b>3,333</b>	<b>3,446</b>
<b>Alaska Total</b>	<b>210,145</b>	<b>207,826</b>	<b>194,068</b>	<b>111,834</b>	<b>148,540</b>	<b>61,495</b>	<b>106,127</b>	<b>52,905</b>	<b>60,867</b>	<b>77,491</b>	<b>80,329</b>	<b>85,067</b>

<sup>a</sup> Upper Copper/Upper Susitna Drainages estimates are included under the Arctic-Yukon-Kuskokwim Region starting in 1997 to reflect the shift in management responsibilities.

**Appendix A46.-Alaska sport Pacific halibut harvests, 1988-1998, and catch, 1998, by region and area.**

Area Fished	Harvest											Catch
	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1998
<b>Southeast</b>												
Ketchikan	11,544	13,699	9,872	9,733	9,455	12,763	15,313	14,483	15,316	13,685	11,311	16,811
Prince of Wales Island	2,778	9,213	10,264	11,875	11,661	22,501	24,465	20,808	23,266	21,201	24,028	35,645
Kake, Petersburg, Wrangell, Stikine	3,877	5,548	5,768	6,433	6,153	5,984	7,992	9,488	10,234	10,417	8,995	12,920
Sitka	10,572	17,727	17,492	20,283	22,092	19,366	23,701	21,452	20,840	27,552	30,303	51,144
Juneau	18,697	20,273	16,248	13,637	14,850	16,340	10,362	15,145	16,414	21,282	14,553	24,227
Haines-Skagway	3,201	2,588	1,972	1,199	926	2,195	1,058	856	1,209	1,007	564	832
Glacier Bay	4,238	4,484	3,415	8,766	4,863	5,878	5,849	7,090	7,618	9,242	7,190	15,244
Yakutat	1,673	772	1,459	2,112	1,861	2,752	3,577	2,456	3,236	4,926	5,166	7,815
Total	56,580	74,304	66,490	74,038	71,861	87,779	92,317	91,778	98,133	109,312	102,110	164,638
<b>Southcentral</b>												
Upper Copper/Upper Susitna Drainages	0	0	0	0	0	0	0	0	0			
Prince William Sound	9,845	8,697	10,851	12,733	17,855	19,716	23,487	24,771	22,330	28,456	24,301	41,697
Knik Arm Drainage	0	0	0	0	0	0	0	0	0	0	0	0
Anchorage	0	0	0	0	0	0	0	0	0	0	0	0
East Susitna River Drainage	0	0	0	0	0	0	0	0	0	0	0	0
West Cook Inlet-West Susitna River Drainages	1,192	1,224	1,685	1,576	984	2,507	2,725	3,236	2,422	3,158	3,003	6,977
Kenai Peninsula	147,756	132,944	156,353	160,888	160,705	185,431	193,085	188,597	209,576	218,594	201,106	394,011
Kodiak	7,749	10,435	9,134	12,089	10,860	14,169	14,910	13,989	14,205	17,232	15,668	25,345
Naknek River Drainage-Alaska Peninsula	1,984	1,412	2,545	5,199	2,645	3,491	2,402	2,796	3,213	3,335	3,238	6,306
Kvichak River Drainage	0	0	0	0	0	0	0	0	0	0	0	0
Nushagak	0	0	0	0	0	0	0	0	0	0	0	0
Total <sup>a</sup>	168,526	154,712	180,568	192,485	193,049	225,314	236,609	233,389	251,746	270,775	247,316	474,336
<b>Arctic-Yukon-Kuskokwim</b>												
Upper Copper/Upper Susitna Drainages										0	0	0
Tanana River Drainages	0	0	0	0	0	0	0	0	0	0	0	0
Kuskokwim-Goodnews Drainages	0	0	144	0	33	54	45	21	145	50	315	454
Seward Peninsula-Norton Sound Drainages	0	0	0	0	0	0	75	0	196	119	723	1,278
Northwest Alaska Drainages	0	0	0	0	0	0	0	0	0	0	0	0
Yukon River Drainages	0	0	0	0	0	0	0	0	0	0	0	0
North Slope Brooks Range Drainages	0	0	0	0	0	0	0	0	0	0	0	0
Total <sup>a</sup>	0	0	144	0	33	54	120	21	341	169	1,038	1,732
<b>Alaska Total</b>	<b>225,106</b>	<b>229,016</b>	<b>247,202</b>	<b>266,523</b>	<b>264,943</b>	<b>313,147</b>	<b>329,046</b>	<b>325,188</b>	<b>350,220</b>	<b>380,256</b>	<b>350,464</b>	<b>640,706</b>

<sup>a</sup> Upper Copper/Upper Susitna Drainages estimates are included under the Arctic-Yukon-Kuskokwim Region starting in 1997 to reflect the shift in management responsibilities.

**Appendix A47.-Alaska sport rockfish harvests, 1988-1998, and catch, 1998, by region and area.**

Area Fished	Harvest											Catch
	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1998
<b>Southeast</b>												
Ketchikan	26,378	17,159	9,043	8,504	9,927	6,764	11,741	7,984	7,092	8,156	5,133	14,189
Prince of Wales Island	8,692	8,955	9,062	7,200	7,968	9,589	12,122	11,915	9,446	10,804	11,759	30,271
Kake, Petersburg, Wrangell, Stikine	480	1,726	1,150	1,222	1,838	2,070	2,298	1,870	1,085	1,760	2,678	4,329
Sitka	9,319	6,196	3,948	4,879	6,852	6,622	13,446	7,968	10,728	12,078	16,281	46,310
Juneau	10,224	4,638	1,881	3,408	3,532	5,717	3,271	3,438	3,008	4,735	5,570	9,383
Haines-Skagway	854	465	488	415	181	569	157	233	329	323	214	407
Glacier Bay	801	357	306	936	501	448	881	355	599	836	1,283	3,359
Yakutat	91	8	81	264	414	251	490	584	599	1,396	1,224	2,954
Total	56,839	39,504	25,959	26,828	31,213	32,030	44,406	34,347	32,886	40,088	44,142	111,202
<b>Southcentral</b>												
Upper Copper/Upper Susitna Drainages	0	0	0	0	0	0	0	0	0			
Prince William Sound	12,711	12,919	8,157	8,733	15,478	12,274	15,382	14,701	12,375	15,403	13,451	23,047
Knik Arm Drainage	0	0	0	0	0	0	0	0	0	0	0	0
Anchorage	0	0	0	0	0	0	0	0	0	0	0	0
East Susitna River Drainage	0	0	0	0	0	0	0	0	0	0	0	0
West Cook Inlet-West Susitna River Drainages	0	0	0	0	0	0	0	0	0	0	0	0
Kenai Peninsula	45,327	29,028	21,937	22,622	33,266	29,971	33,440	21,759	26,656	24,876	24,881	52,908
Kodiak	11,369	5,070	3,842	8,036	5,652	7,569	5,019	4,247	6,551	6,164	4,547	17,307
Naknek River Drainage-Alaska Peninsula	1,875	255	2,677	1,044	914	781	724	559	582	1,689	437	745
Kvichak River Drainage	0	0	0	0	0	0	0	0	0	0	0	0
Nushagak	0	0	0	0	0	0	0	0	0	0	0	0
Total <sup>a</sup>	71,282	47,272	36,613	40,435	55,310	50,595	54,565	41,266	46,164	48,132	43,316	94,007
<b>Arctic-Yukon-Kuskokwim</b>												
Upper Copper/Upper Susitna Drainages										0	0	0
Tanana River Drainages	0	0	0	0	0	0	0	0	0	0	0	0
Kuskokwim-Goodnews Drainages	0	0	0	0	0	0	0	0	0	0	0	0
Seward Peninsula-Norton Sound Drainages	0	0	0	0	0	0	0	0	0	0	0	0
Northwest Alaska Drainages	0	0	0	0	0	0	0	0	0	0	0	0
Yukon River Drainages	0	0	0	0	0	0	0	0	0	0	0	0
North Slope Brooks Range Drainages	0	0	0	0	0	0	0	0	0	0	0	0
Total <sup>a</sup>	0	0	0	0	0	0	0	0	0	0	0	0
<b>Alaska Total</b>	<b>128,121</b>	<b>86,776</b>	<b>62,572</b>	<b>67,263</b>	<b>86,523</b>	<b>82,625</b>	<b>98,971</b>	<b>75,613</b>	<b>79,050</b>	<b>88,220</b>	<b>87,458</b>	<b>205,209</b>

<sup>a</sup> Upper Copper/Upper Susitna Drainages estimates are included under the Arctic-Yukon-Kuskokwim Region starting in 1997 to reflect the shift in management responsibilities.

**Appendix A48.-Alaska sport lingcod harvests, 1991-1997, and catch, 1997, by region and area.**

Area Fished	Harvest							Catch
	1991	1992	1993	1994	1995	1996	1997	1997
<b>Southeast</b>								
Ketchikan	1,977	2,381	2,171	2,520	1,616	1,765	1,933	2,941
Prince of Wales Island	3,245	4,048	6,422	7,627	5,443	5,936	5,294	7,457
Kake, Petersburg, Wrangell, Stikine	201	486	653	495	402	275	355	419
Sitka	2,448	4,683	3,901	7,836	4,613	6,592	6,713	11,056
Juneau	1,047	1,129	840	630	233	413	1,427	2,422
Haines-Skagway	353	102	268	129	23	7	40	64
Glacier Bay	327	56	216	139	149	284	197	363
Yakutat	160	308	498	693	624	1,137	2,073	2,425
<b>Total</b>	<b>9,758</b>	<b>13,193</b>	<b>14,969</b>	<b>20,069</b>	<b>13,103</b>	<b>16,409</b>	<b>18,032</b>	<b>27,147</b>
<b>Southcentral</b>								
Upper Copper/Upper Susitna Drainages	0	0	0	0	0	0		
Prince William Sound	1,979	2,575	2,008	1,658	2,316	2,035	3,588	7,904
Knik Arm Drainage	0	0	0	0	0	0	0	0
Anchorage	0	93	0	0	0	0	0	0
East Susitna River Drainage	0	0	0	0	0	0	0	0
West Cook Inlet-W Susitna River Drainages	35	0	45	56	28	134	52	272
Kenai Peninsula	8,932	11,280	4,715	4,896	3,738	4,701	4,929	15,578
Kodiak	1,352	1,454	922	1,014	932	1,074	1,277	5,212
Naknek River Drainage-Alaska Peninsula	993	299	198	185	75	9	427	790
Kvichak River Drainage	0	0	0	0	0	0	0	0
Nushagak	0	0	0	0	0	0	0	0
<b>Total</b>	<b>13,291</b>	<b>15,701</b>	<b>7,888</b>	<b>7,809</b>	<b>7,089</b>	<b>7,953</b>	<b>10,273</b>	<b>29,756</b>
<b>Arctic-Yukon-Kuskokwim</b>								
Upper Copper/Upper Susitna Drainages							0	0
Tanana River Drainages	0	0	0	0	0	0	0	0
Kuskokwim-Goodnews Drainages	0	0	0	0	0	0	0	0
Seward Peninsula-Norton Sound Drainages	0	0	0	0	0	0	0	0
Northwest Alaska Drainages	0	0	0	0	0	0	0	0
Yukon River Drainages	0	0	0	0	0	0	0	0
North Slope Brooks Range Drainages	0	0	0	0	0	0	0	0
<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>Alaska Total</b>	<b>23,049</b>	<b>28,894</b>	<b>22,857</b>	<b>27,878</b>	<b>20,192</b>	<b>24,362</b>	<b>28,305</b>	<b>56,903</b>

<sup>a</sup> Upper Copper/Upper Susitna Drainages estimates are included under the Arctic-Yukon-Kuskokwim Region starting in 1997 to reflect the shift in management responsibilities.

**Appendix A49.-Alaska sport razor clam harvests, 1988-1998, and catch, 1998, by region and area.**

Area Fished	Harvest											Catch
	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1998
<b>Southeast</b>												
Ketchikan	0	0	0	0	0	0	0	0	0	0	0	0
Prince of Wales Island	0	0	0	0	0	0	0	0	0	0	0	0
Kake, Petersburg, Wrangell, Stikine	0	0	0	0	0	0	0	0	0	0	0	0
Sitka	3,284	5,104	4,428	618	2,445	1,001	928	2,004	228	141	126	126
Juneau	0	0	0	0	0	0	0	0	0	0	0	0
Haines-Skagway	0	0	0	0	0	0	0	0	0	0	0	0
Glacier Bay	0	0	0	0	0	0	0	0	0	0	0	0
Yakutat	0	0	0	0	0	0	0	0	0	0	0	0
<b>Total</b>	<b>3,284</b>	<b>5,104</b>	<b>4,428</b>	<b>618</b>	<b>2,445</b>	<b>1,001</b>	<b>928</b>	<b>2,004</b>	<b>228</b>	<b>141</b>	<b>126</b>	<b>126</b>
<b>Southcentral</b>												
Upper Copper/Upper Susitna Drainages	0	0	0	0	0	0	0	0	0			
Prince William Sound	5,455	4,243	5,235	2,692	26,307	6,629	3,572	2,105	1,837	72	420	420
Knik Arm Drainage	0	0	0	0	0	0	0	0	0	0	0	0
Anchorage	0	0	0	0	0	0	0	0	0	0	0	0
East Susitna River Drainage	0	0	0	0	0	0	0	0	0	0	0	0
West Cook Inlet-West Susitna River Drainages	58,784	57,603	48,752	27,658	31,066	39,989	22,239	14,878	19,688	16,395	11,260	11,278
Kenai Peninsula	1,189,682	849,536	979,353	1,176,433	1,176,349	963,054	1,286,614	1,180,958	820,864	833,160	648,235	696,464
Kodiak	4,614	1,477	173	119	973	1,286	4,322	0	1,366	235	178	178
Naknek River Drainage-Alaska Peninsula	0	0	0	0	0	0	0	0	0	0	0	0
Kvichak River Drainage	0	0	0	0	0	0	0	0	0	0	0	0
Nushagak	0	0	0	0	0	0	0	0	0	0	0	0
<b>Total<sup>a</sup></b>	<b>1,258,535</b>	<b>912,859</b>	<b>1,033,513</b>	<b>1,206,902</b>	<b>1,234,695</b>	<b>1,010,958</b>	<b>1,316,747</b>	<b>1,197,941</b>	<b>843,755</b>	<b>849,862</b>	<b>660,093</b>	<b>708,340</b>
<b>Arctic-Yukon-Kuskokwim</b>												
Upper Copper/Upper Susitna Drainages										0	0	0
Tanana River Drainages	0	0	0	0	0	0	0	0	0	0	0	0
Kuskokwim-Goodnews Drainages	0	0	0	0	0	0	0	0	0	0	0	0
Seward Peninsula-Norton Sound Drainages	0	0	0	0	0	0	0	0	0	0	0	0
Northwest Alaska Drainages	0	0	0	0	0	0	0	0	0	0	0	0
Yukon River Drainages	0	0	0	0	0	0	0	0	0	0	0	0
North Slope Brooks Range Drainages	0	0	0	0	0	0	0	0	0	0	0	0
<b>Total<sup>a</sup></b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>Alaska Total</b>	<b>1,261,819</b>	<b>917,963</b>	<b>1,037,941</b>	<b>1,207,520</b>	<b>1,237,140</b>	<b>1,011,959</b>	<b>1,317,675</b>	<b>1,199,945</b>	<b>843,983</b>	<b>850,003</b>	<b>660,219</b>	<b>708,466</b>

<sup>a</sup> Upper Copper/Upper Susitna Drainages estimates are included under the Arctic-Yukon-Kuskokwim Region starting in 1997 to reflect the shift in management responsibilities.

**Appendix A50.-Alaska sport harvests, 1988-1998, and catch, 1998, of other fish by region and area.**

Area Fished	Harvest											Catch
	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1998
<b>Southeast</b>												
Ketchikan	10,891	3,312	2,571	2,515	477	2,285	2,297	3,610	1,002	354	165	495
Prince of Wales Island	1,610	447	2,653	518	876	2,438	1,173	2,174	423	388	835	979
Kake, Petersburg, Wrangell, Stikine	9,128	3,997	4,080	1,217	1,050	1,819	2,135	2,383	441	3,568	637	1,388
Sitka	4,642	1,983	7,850	2,691	2,488	1,979	233	3,534	686	282	1,010	1,830
Juneau	4,827	5,952	1,754	3,860	3,050	2,046	809	1,341	443	1,051	482	3,159
Haines-Skagway	1,331	728	838	3,335	508	2,463	244	461	240	17	278	1,368
Glacier Bay	0	1,040	200	68	292	197	72	10	345	67	2,641	2,846
Yakutat	371	120	221	0	151	10	237	20	0	33	60	290
Total	32,800	17,579	20,167	14,204	8,892	13,237	7,200	13,533	3,580	5,760	6,108	12,355
<b>Southcentral</b>												
Upper Copper/Upper Susitna Drainages	0	0	0	47	11	9	128	30	0			
Prince William Sound	10,303	20,466	6,444	4,992	7,445	7,964	1,722	6,237	2,646	2,508	4,943	9,950
Knik Arm Drainage	0	0	99	0	790	176	163	0	38	69	45	133
Anchorage	31	248	0	297	649	392	1,129	541	102	441	764	1,866
East Susitna River Drainage	0	15	67	16	76	49	166	61	63	84	17	17
West Cook Inlet-West Susitna River Drainages	0	47	51	1,351	22	87	168	30	0	117	35	159
Kenai Peninsula	31,073	31,069	43,691	9,277	10,021	5,275	4,016	4,425	3,069	2,695	2,392	14,241
Kodiak	8,694	1,757	2,657	2,995	1,062	1,618	1,578	1,467	1,088	467	1,170	3,153
Naknek River Drainage-Alaska Peninsula	62	222	1,757	1,588	1,191	946	230	304	233	149	354	839
Kvichak River Drainage	0	17	0	0	32	80	475	0	0	0	0	36
Nushagak	31	0	17	48	184	63	76	0	0	279	0	0
Total <sup>a</sup>	50,194	53,841	54,783	20,611	21,483	16,659	9,851	13,095	7,239	6,809	9,720	30,394
<b>Arctic-Yukon-Kuskokwim</b>												
Upper Copper/Upper Susitna Drainages										56	0	80
Tanana River Drainages	0	130	34	303	0	79	175	367	126	108	104	651
Kuskokwim-Goodnews Drainages	0	0	0	95	11	589	18	20	0	8	0	267
Seward Peninsula-Norton Sound Drainages	371	33	580	1,385	909	549	865	203	13	285	924	1,298
Northwest Alaska Drainages	0	174	0	0	216	177	0	357	633	0	152	955
Yukon River Drainages	0	34	0	0	0	0	503	603	19	8	0	0
North Slope Brooks Range Drainages	0	0	0	0	0	0	0	0	0	0	0	26
Total <sup>a</sup>	371	371	614	1,783	1,136	1,394	1,561	1,550	791	465	1,180	3,277
<b>Alaska Total</b>	<b>83,365</b>	<b>71,791</b>	<b>75,564</b>	<b>36,598</b>	<b>31,511</b>	<b>31,290</b>	<b>18,612</b>	<b>28,178</b>	<b>11,610</b>	<b>13,034</b>	<b>17,008</b>	<b>46,026</b>

<sup>a</sup> Upper Copper/Upper Susitna Drainages estimates are included under the Arctic-Yukon-Kuskokwim Region starting in 1997 to reflect the shift in management responsibilities.

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harvest estimates by sport fish area and  
their standard errors on facing pages.**

## Appendix A51.-Ketchikan Area<sup>a</sup> sport fish harvest and effort by fisheries and species<sup>b</sup>, 1998

	Days																				
	Anglers	Trips	Fished	KI <sup>c</sup>	KS <sup>c</sup>	SS	RS	KO	PS	CS	DV	SH	RT	CT	BT	GR	SM	HA	RF	LC	OTHE
<b>SALTWATER:</b>																					
Boat - East, West Behm Canals	6,634	10,562	15,007	0	585	11,292	249	0	5,870	4,879	0	0	0	0	0	0	0	2,058	1,416	150	69
Boat - Clarence Strait	3,283	4,805	6,788	0	627	6,749	390	0	2,056	1,211	0	0	0	0	0	0	0	3,528	672	461	0
Boat - Revilla Channel	8,567	10,611	15,310	0	1,373	8,046	195	0	4,756	3,040	14	0	0	0	0	0	0	3,618	2,137	527	9
Boat - Tongass Narrows	1,821	1,834	2,639	0	177	1,378	171	0	918	599	0	0	0	0	0	0	0	893	439	155	13
Boat - Yes Bay	725	624	878	0	21	411	441	0	135	615	0	0	0	0	0	0	0	94	83	0	0
Boat - Bell Island	482	315	532	0	107	40	0	0	447	372	0	0	0	0	0	0	0	45	13	0	0
Boat - Other	3,094	1,896	3,811	0	241	1,942	102	0	1,816	1,169	0	0	0	0	0	0	0	1,061	210	47	53
Shoreline - Mountain Point	402	724	798	0	0	0	0	0	694	22	0	0	0	0	0	0	0	0	0	0	0
Shoreline - Other	781	622	1,232	0	111	64	10	0	303	29	0	0	0	0	0	0	0	14	163	6	21
<b>SALTWATER TOTAL</b>	<b>21,187<sup>d</sup></b>	<b>31,993</b>	<b>46,995</b>	<b>0</b>	<b>3,242</b>	<b>29,922</b>	<b>1,558</b>	<b>0</b>	<b>16,995</b>	<b>11,936</b>	<b>14</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>11,311</b>	<b>5,133</b>	<b>1,346</b>	<b>165</b>
<b>FRESHWATER:</b>																					
Naha River	360	350	678	0	0	79	0	0	0	0	34	0	156	109	0	0	0	0	0	0	0
Ward Cove Creek	436	539	722	0	0	39	0	0	167	101	31	4	0	0	0	0	0	0	0	0	0
Ketchikan Creek	243	622	704	0	0	83	0	0	215	22	0	0	0	8	0	0	0	0	0	0	0
Other Streams	807	779	1,948	0	0	279	0	0	707	296	765	0	116	92	0	0	0	0	0	0	0
Ward Lake	533	1,728	1,950	0	0	60	0	0	85	0	699	0	17	25	0	0	0	0	0	0	0
McDonald Lake Drainage (incl. lake)	281	234	925	0	0	0	1,311	0	0	0	93	0	15	0	0	0	0	0	0	0	0
Other Lakes	692	954	2,016	0	0	1,433	80	0	0	29	106	0	218	372	0	25	0	0	0	0	0
<b>FRESHWATER TOTAL</b>	<b>2,579<sup>d</sup></b>	<b>5,206</b>	<b>8,943</b>	<b>0</b>	<b>0</b>	<b>1,973</b>	<b>1,391</b>	<b>0</b>	<b>1,174</b>	<b>448</b>	<b>1,728</b>	<b>4</b>	<b>522</b>	<b>606</b>	<b>0</b>	<b>25</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>GRAND TOTAL</b>	<b>22,441<sup>d</sup></b>	<b>37,199</b>	<b>55,938</b>	<b>0</b>	<b>3,242</b>	<b>31,895</b>	<b>2,949</b>	<b>0</b>	<b>18,169</b>	<b>12,384</b>	<b>1,742</b>	<b>4</b>	<b>522</b>	<b>606</b>	<b>0</b>	<b>25</b>	<b>0</b>	<b>11,311</b>	<b>5,133</b>	<b>1,346</b>	<b>165</b>

<sup>a</sup> Ketchikan (Area A): All waters of Alaska, including drainages, from Portland Inlet to, but not including, Ernest Sound; including Duke, Annette, and Gravina Islands.

<sup>b</sup> Refer to Appendix A3 for common names and species abbreviations.

<sup>c</sup> KI is chinook salmon less than 28 inches. KS is chinook salmon 28 inches and over.

<sup>d</sup> Angler totals may not equal sum of sites due to some anglers fishing at more than one site.



**Appendix A52.-Ketchikan Area<sup>a</sup> standard errors<sup>b</sup> of sport fish harvest and effort by fisheries and species<sup>c</sup>, 1998.**

	Days		KI <sup>d</sup>	KS <sup>d</sup>	SS	RS	KO	PS	CS	DV	SH	RT	CT	BT	GR	SM	HA	RF	LC	OTHE	
	Trips	Fished																			
<b>SALTWATER:</b>																					
Boat - East, West Behm Canals	1,579	2,314	0	143	3,038	101	0	1,207	954	0	0	0	0	0	0	0	421	334	64	46	
Boat - Clarence Strait	710	933	0	173	1,551	221	0	507	329	0	0	0	0	0	0	0	655	155	145	0	
Boat - Revilla Channel	1,009	1,407	0	259	1,593	109	0	760	543	14	0	0	0	0	0	0	496	469	142	9	
Boat - Tongass Narrows	358	482	0	88	502	164	0	300	206	0	0	0	0	0	0	0	272	151	121	13	
Boat - Yes Bay	187	217	0	16	236	281	0	93	260	0	0	0	0	0	0	0	68	46	0	0	
Boat - Bell Island	111	164	0	81	22	0	0	306	198	0	0	0	0	0	0	0	34	13	0	0	
Boat - Other	330	664	0	114	598	71	0	608	301	0	0	0	0	0	0	0	390	128	36	51	
Shoreline - Mountain Point	267	291	0	0	0	0	0	342	20	0	0	0	0	0	0	0	0	0	0	0	
Shoreline - Other	144	328	0	62	45	10	0	125	29	0	0	0	0	0	0	0	13	97	6	22	
<b>SALTWATER TOTAL</b>	<b>2,334</b>	<b>3,299</b>	<b>0</b>	<b>388</b>	<b>4,057</b>	<b>428</b>	<b>0</b>	<b>1,763</b>	<b>1,241</b>	<b>14</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1,034</b>	<b>641</b>	<b>242</b>	<b>77</b>	
<b>FRESHWATER:</b>																					
Naha River	130	190	0	0	80	0	0	0	0	35	0	77	68	0	0	0	0	0	0	0	
Ward Cove Creek	180	243	0	0	29	0	0	112	89	22	4	0	0	0	0	0	0	0	0	0	
Ketchikan Creek	270	284	0	0	63	0	0	131	22	0	0	0	9	0	0	0	0	0	0	0	
Other Streams	204	474	0	0	135	0	0	595	125	472	0	63	53	0	0	0	0	0	0	0	
Ward Lake	775	863	0	0	37	0	0	73	0	635	0	16	24	0	0	0	0	0	0	0	
McDonald Lake Drainage (incl. lake)	129	529	0	0	0	881	0	0	0	69	0	16	0	0	0	0	0	0	0	0	
Other Lakes	181	418	0	0	1,181	83	0	0	29	67	0	133	158	0	26	0	0	0	0	0	
<b>FRESHWATER TOTAL</b>	<b>939</b>	<b>1,305</b>	<b>0</b>	<b>0</b>	<b>1,191</b>	<b>884</b>	<b>0</b>	<b>621</b>	<b>160</b>	<b>797</b>	<b>4</b>	<b>168</b>	<b>182</b>	<b>0</b>	<b>26</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	
<b>GRAND TOTAL</b>	<b>2,542</b>	<b>3,646</b>	<b>0</b>	<b>388</b>	<b>4,221</b>	<b>1,003</b>	<b>0</b>	<b>1,898</b>	<b>1,257</b>	<b>797</b>	<b>4</b>	<b>168</b>	<b>182</b>	<b>0</b>	<b>26</b>	<b>0</b>	<b>1,034</b>	<b>641</b>	<b>242</b>	<b>77</b>	

<sup>a</sup> Ketchikan (Area A): All waters of Alaska, including drainages, from Portland Inlet to, but not including, Ernest Sound; including Duke, Annette, and Gravina Islands.

<sup>b</sup> Standard errors were calculated using the bootstrap method. Because the empirical distribution of derived confidence intervals for these estimates is not symmetrical, valid confidence intervals cannot be obtained directly.

<sup>c</sup> Refer to Appendix A3 for common names and species abbreviations.

<sup>d</sup> KI is chinook salmon less than 28 inches. KS is chinook salmon 28 inches and over.

**Appendix A53.-Prince of Wales Island Area<sup>a</sup> sport fish harvest and effort by fisheries and species<sup>b</sup>, 1998.**

	Days																			
	Anglers	Trips	Fished	KI <sup>c</sup>	KS <sup>c</sup>	SS	RS	KO	PS	CS	DV	SH	RT	CT	GR	SM	HA	RF	LC	OTHE
<b>SALTWATER:</b>																				
Boat - Waterfall Bay	1,573	1,812	3,273	0	1,877	4,750	145	0	1,503	94	0	0	0	0	0	0	3,942	571	1,494	60
Boat - Eastside Prince of Wales Island	3,115	5,625	7,490	0	1,072	6,411	63	0	1,877	262	50	0	0	84	0	0	3,943	2,716	1,525	179
Boat - Westside Prince of Wales Island	6,204	11,846	18,290	0	6,638	21,601	381	0	2,044	399	33	0	0	0	0	0	14,456	6,437	4,258	272
Boat - Other	1,755	3,131	4,895	0	615	2,522	402	0	790	118	0	0	0	18	0	1,078	1,687	1,868	447	69
Shoreline	303	538	751	0	30	237	48	0	63	0	59	0	0	84	0	0	0	167	0	255
<b>SALTWATER TOTAL</b>	<b>11,623<sup>d</sup></b>	<b>22,952</b>	<b>34,699</b>	<b>0</b>	<b>10,232</b>	<b>35,521</b>	<b>1,039</b>	<b>0</b>	<b>6,277</b>	<b>873</b>	<b>142</b>	<b>0</b>	<b>0</b>	<b>186</b>	<b>0</b>	<b>1,078</b>	<b>24,028</b>	<b>11,759</b>	<b>7,724</b>	<b>835</b>
<b>FRESHWATER:</b>																				
Thorne System (Stream, Lake)	844	4,354	4,791	0	0	1,020	76	0	1,095	42	665	10	443	472	0	0	0	0	0	0
Sweetwater System (Stream, Lake)	234	290	437	0	0	216	380	0	0	0	0	0	0	0	0	0	0	0	0	0
Sarkar System (Stream, Lake)	168	275	502	0	0	89	485	0	0	25	32	0	140	67	0	0	0	0	0	0
Other Systems	19	31	32	0	0	0	8	0	0	0	0	0	0	0	0	0	0	0	0	0
Karta River	291	326	516	0	0	65	1,053	0	0	0	68	4	42	59	0	0	0	0	0	0
Klawock River	322	2,352	2,435	0	0	59	0	0	154	0	0	18	34	9	0	0	0	0	0	0
Staney Creek	389	598	733	0	0	284	0	0	22	17	24	0	17	108	0	0	0	0	0	0
Eagle Creek	329	572	772	0	0	366	0	0	41	0	118	0	0	50	0	0	0	0	0	0
Harris River	466	1,086	1,215	0	0	766	0	0	0	0	84	0	0	0	0	0	0	0	0	0
Other Streams	751	1,442	1,788	0	0	2,804	124	0	627	34	261	0	74	219	0	0	0	0	0	0
Other Lakes	229	579	714	0	0	0	0	0	0	0	168	0	0	140	0	0	0	0	0	0
<b>FRESHWATER TOTAL</b>	<b>2,370<sup>d</sup></b>	<b>11,905</b>	<b>13,935</b>	<b>0</b>	<b>0</b>	<b>5,669</b>	<b>2,126</b>	<b>0</b>	<b>1,939</b>	<b>118</b>	<b>1,420</b>	<b>32</b>	<b>750</b>	<b>1,124</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>GRAND TOTAL</b>	<b>12,667<sup>d</sup></b>	<b>34,857</b>	<b>48,634</b>	<b>0</b>	<b>10,232</b>	<b>41,190</b>	<b>3,165</b>	<b>0</b>	<b>8,216</b>	<b>991</b>	<b>1,562</b>	<b>32</b>	<b>750</b>	<b>1,310</b>	<b>0</b>	<b>1,078</b>	<b>24,028</b>	<b>11,759</b>	<b>7,724</b>	<b>835</b>

<sup>a</sup> Prince of Wales Island (Area B): All waters of Alaska, including drainages, from Cape Chacon to Sumner Strait, and from Clarence Strait westward, including Forester Island.

<sup>b</sup> Refer to Appendix A3 for common names and species abbreviations.

<sup>c</sup> KI is chinook salmon less than 28 inches. KS is chinook salmon 28 inches and over.

<sup>d</sup> Angler totals may not equal sum of sites due to some anglers fishing at more than one site.

**Appendix A54.-Prince of Wales Island Area<sup>a</sup> standard errors<sup>b</sup> of sport fish harvest and effort by fisheries and species<sup>c</sup>, 1998.**

	Days		KI <sup>d</sup>	KS <sup>d</sup>	SS	RS	KO	PS	CS	DV	SH	RT	CT	GR	SM	HA	RF	LC	OTHER
	Trips	Fished																	
<b>SALTWATER:</b>																			
Boat - Waterfall Bay	298	477	0	353	1,120	141	0	567	46	0	0	0	0	0	0	686	177	316	63
Boat - Eastside Prince of Wales Island	907	1,076	0	252	1,355	50	0	540	101	45	0	0	61	0	0	613	625	440	113
Boat - Westside Prince of Wales Island	2,221	2,688	0	1,065	4,862	240	0	515	109	21	0	0	0	0	0	2,968	953	588	139
Boat - Other	739	978	0	208	894	240	0	275	50	0	0	0	17	0	1,071	322	714	121	51
Shoreline	197	239	0	29	159	49	0	46	0	50	0	0	84	0	0	0	169	0	243
<b>SALTWATER TOTAL</b>	<b>2,619</b>	<b>3,233</b>	<b>0</b>	<b>1,167</b>	<b>5,236</b>	<b>379</b>	<b>0</b>	<b>939</b>	<b>164</b>	<b>71</b>	<b>0</b>	<b>0</b>	<b>104</b>	<b>0</b>	<b>1,071</b>	<b>3,121</b>	<b>1,376</b>	<b>806</b>	<b>311</b>
<b>FRESHWATER:</b>																			
Thorne System (Stream, Lake)	1,764	1,782	0	0	372	76	0	692	29	325	10	226	156	0	0	0	0	0	0
Sweetwater System (Stream, Lake)	86	155	0	0	101	154	0	0	0	0	0	0	0	0	0	0	0	0	0
Sarkar System (Stream, Lake)	107	185	0	0	86	475	0	0	26	32	0	137	48	0	0	0	0	0	0
Other Systems	23	23	0	0	0	8	0	0	0	0	0	0	0	0	0	0	0	0	0
Karta River	110	183	0	0	37	599	0	0	0	49	4	34	38	0	0	0	0	0	0
Klawock River	1,029	1,032	0	0	44	0	0	154	0	0	13	34	9	0	0	0	0	0	0
Staney Creek	179	190	0	0	127	0	0	22	17	18	0	16	61	0	0	0	0	0	0
Eagle Creek	293	320	0	0	286	0	0	37	0	85	0	0	36	0	0	0	0	0	0
Harris River	436	439	0	0	337	0	0	0	0	52	0	0	0	0	0	0	0	0	0
Other Streams	401	451	0	0	1,350	86	0	326	27	162	0	43	120	0	0	0	0	0	0
Other Lakes	415	416	0	0	0	0	0	0	0	174	0	0	78	0	0	0	0	0	0
<b>FRESHWATER TOTAL</b>	<b>2,291</b>	<b>2,358</b>	<b>0</b>	<b>0</b>	<b>1,516</b>	<b>794</b>	<b>0</b>	<b>786</b>	<b>50</b>	<b>422</b>	<b>16</b>	<b>277</b>	<b>240</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>GRAND TOTAL</b>	<b>3,520</b>	<b>4,035</b>	<b>0</b>	<b>1,167</b>	<b>5,443</b>	<b>879</b>	<b>0</b>	<b>1,220</b>	<b>171</b>	<b>430</b>	<b>16</b>	<b>277</b>	<b>264</b>	<b>0</b>	<b>1,071</b>	<b>3,121</b>	<b>1,376</b>	<b>806</b>	<b>311</b>

<sup>a</sup> Prince of Wales Island (Area B): All waters of Alaska, including drainages, from Cape Chacon to Sumner Strait, and from Clarence Strait westward, including Forester Island.

<sup>b</sup> Standard errors were calculated using the bootstrap method. Because the empirical distribution of derived confidence intervals for these estimates is not symmetrical, valid confidence intervals cannot be obtained directly.

<sup>c</sup> Refer to Appendix A3 for common names and species abbreviations.

<sup>d</sup> KI is chinook salmon less than 28 inches. KS is chinook salmon 28 inches and over.

**Appendix A55.-Kake, Petersburg, Wrangell, Stikine Area<sup>a</sup> sport fish harvest and effort by fisheries and species<sup>b</sup>, 1998.**

	Anglers	Trips	Days																			
			Fished	KI <sup>c</sup>	KS <sup>c</sup>	SS	RS	KO	PS	CS	DV	SH	RT	CT	BT	GR	WF	SM	HA	RF	LC	OTHE
<b>SALTWATER:</b>																						
Boat - Terminal Harvest Area near Petersburg (in Wrangell Narrows)	1,313	2,147	2,889	308	660	66	0	0	50	0	574	0	0	169	0	0	0	399	66	0	26	
Boat - Frederick Sound near Petersburg	3,135	5,775	7,631	0	736	636	0	0	538	0	42	0	0	0	0	0	0	846	3,501	748	318	0
Boat - Rest of Petersburg Area	1,170	1,868	2,594	0	216	297	10	0	67	8	0	0	0	34	0	0	0	1,555	71	52	0	
Boat - Wrangell Area	1,980	3,472	5,474	0	362	199	16	0	241	22	0	0	0	0	0	0	0	1,515	266	6	0	
Boat - Kake Area	633	1,459	1,800	0	19	132	76	0	108	67	0	0	0	0	0	0	0	978	717	126	0	
Boat - Sumner Strait	332	496	712	0	151	61	0	0	0	0	0	0	0	0	0	0	0	296	73	6	0	
Boat - Other	1,033	1,182	2,281	0	226	1,187	129	0	56	88	8	0	0	0	0	0	0	737	737	72	85	
Shoreline - Petersburg Road System	467	836	1,107	0	184	0	0	0	0	0	73	0	0	16	0	0	0	1,036	7	0	0	457
Shoreline - Other	411	528	774	13	43	19	0	0	0	0	212	0	0	8	0	0	0	7	0	0	69	
<b>SALTWATER TOTAL</b>	<b>7,756<sup>d</sup></b>	<b>17,763</b>	<b>25,262</b>	<b>321</b>	<b>2,597</b>	<b>2,597</b>	<b>231</b>	<b>0</b>	<b>1,060</b>	<b>185</b>	<b>909</b>	<b>0</b>	<b>0</b>	<b>227</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1,882</b>	<b>8,995</b>	<b>2,678</b>	<b>580</b>	<b>637</b>
<b>FRESHWATER:</b>																						
Blind Slough (in Wrangell Narrows)	903	1,757	2,842	256	518	167	5	0	268	0	48	0	0	253	0	0	0	255	0	0	0	0
Petersburg Creek	423	707	1,270	0	0	60	108	0	393	8	380	9	15	117	0	0	0	0	0	0	0	0
Kah Sheets River	294	238	422	0	0	54	536	0	0	0	61	8	17	92	0	0	0	0	0	0	0	0
Other Streams	1,002	1,469	2,040	0	0	370	0	0	33	15	69	46	128	472	0	0	0	0	0	0	0	0
Lakes	463	300	638	0	0	14	0	0	0	0	0	0	455	75	0	0	0	0	0	0	0	0
Systems	153	60	163	0	0	20	0	0	0	0	0	0	0	46	0	0	0	0	0	0	0	0
<b>FRESHWATER TOTAL</b>	<b>2,469<sup>d</sup></b>	<b>4,531</b>	<b>7,375</b>	<b>256</b>	<b>518</b>	<b>685</b>	<b>649</b>	<b>0</b>	<b>694</b>	<b>23</b>	<b>558</b>	<b>63</b>	<b>615</b>	<b>1,055</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>255</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>GRAND TOTAL</b>	<b>8,623<sup>d</sup></b>	<b>22,294</b>	<b>32,637</b>	<b>577</b>	<b>3,115</b>	<b>3,282</b>	<b>880</b>	<b>0</b>	<b>1,754</b>	<b>208</b>	<b>1,467</b>	<b>63</b>	<b>615</b>	<b>1,282</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>2,137</b>	<b>8,995</b>	<b>2,678</b>	<b>580</b>	<b>637</b>

<sup>a</sup> Kake, Petersburg, Wrangell, Stikine (Area C): All waters of Alaska, including drainages, from Ernest Sound to Cape Fanshaw, including Wrangell, Etolin, Zarembo, Mitkof, Kupreanof, Kuiu, and Coronation Islands, and Ernest Sound.

<sup>b</sup> Refer to Appendix A3 for common names and species abbreviations.

<sup>c</sup> KI is chinook salmon less than 28 inches. KS is chinook salmon 28 inches and over.

<sup>d</sup> Angler totals may not equal sum of sites due to some anglers fishing at more than one site.

**Appendix A56.-Kake, Petersburg, Wrangell, Stikine Area<sup>a</sup> standard errors<sup>b</sup> of sport fish harvest and effort by fisheries and species<sup>c</sup>, 1998.**

	Days		KI <sup>d</sup>	KS <sup>d</sup>	SS	RS	KO	PS	CS	DV	SH	RT	CT	BT	GR	WF	SM	HA	RF	LC	OTHER
	Trips	Fished																			
<b>SALTWATER:</b>																					
Boat - Terminal Harvest Area near Petersburg (in Wrangell Narrows)	396	506	100	174	43	0	0	37	0	411	0	0	162	0	0	0	0	151	63	0	26
Boat - Frederick Sound near Petersburg	810	968	0	156	344	0	0	255	0	34	0	0	0	0	0	0	822	554	281	205	0
Boat - Rest of Petersburg Area	374	456	0	88	137	10	0	40	8	0	0	0	25	0	0	0	0	339	47	52	0
Boat - Wrangell Area	624	908	0	139	91	15	0	108	22	0	0	0	0	0	0	0	0	313	137	6	0
Boat - Kake Area	376	453	0	11	90	71	0	76	63	0	0	0	0	0	0	0	0	341	298	61	0
Boat - Sumner Strait	172	272	0	110	62	0	0	0	0	0	0	0	0	0	0	0	0	96	49	6	0
Boat - Other	222	370	0	100	559	134	0	42	76	8	0	0	0	0	0	0	0	216	288	31	78
Shoreline - Petersburg Road System	269	308	0	103	0	0	0	0	0	38	0	0	12	0	0	0	1,027	7	0	0	450
Shoreline - Other	136	200	13	34	20	0	0	0	0	117	0	0	8	0	0	0	0	7	0	0	67
<b>SALTWATER TOTAL</b>	<b>1,317</b>	<b>1,714</b>	<b>101</b>	<b>348</b>	<b>656</b>	<b>156</b>	<b>0</b>	<b>295</b>	<b>102</b>	<b>425</b>	<b>0</b>	<b>0</b>	<b>165</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1,311</b>	<b>878</b>	<b>514</b>	<b>220</b>	<b>457</b>
<b>FRESHWATER:</b>																					
Blind Slough (in Wrangell Narrows)	568	1,104	110	168	87	5	0	235	0	26	0	0	153	0	0	0	251	0	0	0	0
Petersburg Creek	208	305	0	0	30	81	0	260	9	215	9	15	58	0	0	0	0	0	0	0	0
Kah Sheets River	79	146	0	0	34	288	0	0	0	43	9	17	86	0	0	0	0	0	0	0	0
Other Streams	279	338	0	0	151	0	0	21	15	49	42	74	165	0	0	0	0	0	0	0	0
Lakes	85	194	0	0	14	0	0	0	0	0	0	219	55	0	0	0	0	0	0	0	0
Systems	36	109	0	0	20	0	0	0	0	0	0	0	35	0	0	0	0	0	0	0	0
<b>FRESHWATER TOTAL</b>	<b>688</b>	<b>1,249</b>	<b>110</b>	<b>168</b>	<b>185</b>	<b>298</b>	<b>0</b>	<b>350</b>	<b>17</b>	<b>225</b>	<b>44</b>	<b>232</b>	<b>265</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>251</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>GRAND TOTAL</b>	<b>1,513</b>	<b>2,145</b>	<b>147</b>	<b>390</b>	<b>681</b>	<b>342</b>	<b>0</b>	<b>454</b>	<b>102</b>	<b>482</b>	<b>44</b>	<b>232</b>	<b>312</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1,332</b>	<b>878</b>	<b>514</b>	<b>220</b>	<b>457</b>

<sup>a</sup> Kake, Petersburg, Wrangell, Stikine (Area C): All waters of Alaska, including drainages, from Ernest Sound to Cape Fanshaw, including Wrangell, Etolin, Zarembo, Mitkof, Kupreanof, Kuiu, and Coronation Islands, and Ernest Sound.

<sup>b</sup> Standard errors were calculated using the bootstrap method. Because the empirical distribution of derived confidence intervals for these estimates is not symmetrical, valid confidence intervals cannot be obtained directly.

<sup>c</sup> Refer to Appendix A3 for common names and species abbreviations.

<sup>d</sup> KI is chinook salmon less than 28 inches. KS is chinook salmon 28 inches and over.

**Appendix A57.-Sitka Area<sup>a</sup> sport fish harvest and effort by fisheries and species<sup>b</sup>, 1998.**

	Anglers	Days		KI <sup>c</sup>	KS <sup>c</sup>	SS	RS	KO	PS	CS	DV	SH	RT	CT	BT	GR	SM	HA	RF	LC	RCL	OTHE
		Trips	Fished																			
<b>SALTWATER:</b>																						
Boat - Crescent Bay (Sheldon Jackson Hatchery Area)	1,501	1,222	1,976	0	521	2,359	0	0	455	121	0	0	0	0	0	0	255	1,153	438	226	0	242
Boat - Starrigavan Bay	1,445	1,710	2,990	0	738	2,440	0	0	681	541	76	0	0	0	0	0	0	1,378	810	205	0	24
Boat - Silver Bay	1,550	1,748	2,283	116	790	396	0	0	72	15	0	0	0	0	0	0	0	644	371	212	0	12
Boat - Other Sitka Sound, incl. Vitskari Island	11,928	16,609	23,427	0	11,037	22,585	2,104	0	1,612	1,316	186	0	0	42	0	0	68	10,782	5,931	2,660	0	454
Boat - Salisbury Sound	4,034	5,031	8,063	0	4,233	3,692	149	0	495	269	14	0	0	0	0	0	0	2,180	1,564	537	0	0
Boat - Icy Straight	1,152	1,129	2,101	0	54	1,461	0	0	600	15	0	0	0	0	0	0	0	1,843	113	6	0	0
Boat - Yakobi Island	242	291	444	0	157	141	0	0	13	0	0	0	0	0	0	0	0	210	225	67	0	0
Boat - Hoonah Area	447	285	797	0	152	113	0	0	121	84	572	0	0	15	0	0	0	617	243	0	0	7
Boat - Chatham Strait	512	465	1,486	0	160	605	198	0	120	29	42	0	0	0	0	0	0	358	267	19	0	0
Boat - Cross Sound	537	506	1,079	0	485	415	0	0	48	6	8	0	0	0	0	0	0	573	244	126	0	0
Boat - Elfin Cove	280	340	723	0	154	112	0	0	13	13	8	0	0	0	0	0	0	531	209	167	0	0
Boat - Kruzof Island	1,342	1,522	2,824	0	2,050	3,168	0	0	140	382	0	0	0	0	0	0	0	2,741	1,703	772	0	0
Boat - Baranof Island	378	304	619	0	96	260	21	0	53	0	27	0	0	0	0	0	0	158	14	69	0	0
Boat - Hoonah Sound	281	362	789	0	144	353	0	0	0	65	0	0	0	0	0	0	0	122	0	7	0	0
Boat - Tenakee Inlet	977	940	2,108	0	150	1,733	0	0	226	29	0	0	0	0	0	0	0	364	235	12	0	0
Boat - Other	6,327	8,789	14,116	97	2,769	8,781	443	0	1,492	287	258	0	0	42	0	0	0	5,833	3,470	1,469	0	35
Shoreline - Crescent Bay (Sheldon Jackson Hatchery Area)	329	782	869	0	30	46	0	0	173	0	271	0	0	0	0	0	0	0	0	0	0	0
Shoreline - Starrigavan Bay	513	1,522	1,646	0	49	32	0	0	1,271	0	61	0	0	0	0	0	0	79	0	0	0	0
Shoreline - Other Sitka Sound	1,071	1,255	1,682	30	381	931	494	0	0	16	222	0	0	9	0	0	0	423	285	178	0	0
Shoreline - Other	1,028	1,376	2,114	0	154	1,022	113	0	296	21	887	0	0	0	0	0	0	314	159	31	126	236
<b>SALTWATER TOTAL</b>	29,319 <sup>d</sup>	46,188	72,136	243	24,304	50,645	3,522	0	7,881	3,209	2,632	0	0	108	0	0	323	30,303	16,281	6,763	126	1,010
<b>FRESHWATER:</b>																						
Eva Lake System (Lake, Stream)	294	230	834	0	0	15	91	0	0	0	145	0	17	53	0	0	0	0	0	0	0	0
Baranof System (Lake, Stream)	513	477	702	0	0	0	0	0	0	0	42	0	0	223	0	0	0	0	0	0	0	0
Sitkoh System (Lake, Stream)	256	139	401	0	0	0	0	0	22	0	177	0	23	42	0	0	0	0	0	0	0	0
Other Systems	102	57	126	0	0	152	0	0	0	0	61	0	0	0	0	0	0	0	0	0	0	0
Other Streams	1,071	1,327	2,180	0	0	656	122	0	13	0	440	0	8	112	0	0	0	0	0	0	0	0
Other Lakes	401	845	1,055	0	0	0	46	0	0	0	304	0	218	146	0	8	0	0	0	0	0	0
<b>FRESHWATER TOTAL</b>	2,226 <sup>d</sup>	3,075	5,298	0	0	823	259	0	35	0	1,169	0	266	576	0	8	0	0	0	0	0	0
<b>GRAND TOTAL</b>	30,096 <sup>d</sup>	49,263	77,434	243	24,304	51,468	3,781	0	7,916	3,209	3,801	0	266	684	0	8	323	30,303	16,281	6,763	126	1,010

<sup>a</sup> Sitka (Area D): Baranof, Kruzof, Catherine, Yakobi, Inian, Lemesurier, Chichagof, and lesser islands and associated waters of Alaska, including drainages.

<sup>b</sup> Refer to Appendix A3 for common names and species abbreviations.

<sup>c</sup> KI is chinook salmon less than 28 inches. KS is chinook salmon 28 inches and over.

<sup>d</sup> Angler totals may not equal sum of sites due to some anglers fishing at more than one site.

## Appendix A58.-Sitka Area<sup>a</sup> standard errors<sup>b</sup> of sport fish harvest and effort by fisheries and species<sup>c</sup>, 1998.

	Days																				
	Trips	Fished	KI <sup>d</sup>	KS <sup>d</sup>	SS	RS	KO	PS	CS	DV	SH	RT	CT	BT	GR	SM	HA	RF	LC	RCL	OTHE
<b>SALTWATER:</b>																					
Boat - Crescent Bay (Sheldon Jackson Hatchery Area)	200	346	0	125	805	0	0	303	69	0	0	0	0	0	0	252	322	184	83	0	230
Boat - Starrigavan Bay	331	737	0	183	822	0	0	316	415	54	0	0	0	0	0	0	390	405	103	0	24
Boat - Silver Bay	277	380	39	223	191	0	0	45	15	0	0	0	0	0	0	0	210	152	121	0	12
Boat - Other Sitka Sound, incl. Vitskari Island	1,084	1,402	0	830	2,461	747	0	306	291	126	0	0	44	0	0	69	924	615	284	0	251
Boat - Salisbury Sound	540	949	0	471	780	87	0	156	124	14	0	0	0	0	0	0	364	505	114	0	0
Boat - Icy Straight	222	482	0	24	1,160	0	0	446	15	0	0	0	0	0	0	0	434	58	7	0	0
Boat - Yakobi Island	136	162	0	77	89	0	0	14	0	0	0	0	0	0	0	0	93	147	39	0	0
Boat - Hoonah Area	80	221	0	62	61	0	0	92	86	529	0	0	16	0	0	0	239	200	0	0	6
Boat - Chatham Strait	111	616	0	93	250	186	0	82	28	44	0	0	0	0	0	0	161	105	15	0	0
Boat - Cross Sound	125	242	0	152	189	0	0	33	6	8	0	0	0	0	0	0	174	85	57	0	0
Boat - Elfin Cove	122	196	0	59	84	0	0	14	13	8	0	0	0	0	0	0	198	107	93	0	0
Boat - Kruzof Island	326	608	0	415	867	0	0	81	216	0	0	0	0	0	0	0	543	439	200	0	0
Boat - Baranof Island	100	176	0	66	219	21	0	53	0	27	0	0	0	0	0	0	60	14	55	0	0
Boat - Hoonah Sound	177	362	0	134	255	0	0	0	63	0	0	0	0	0	0	0	71	0	7	0	0
Boat - Tenakee Inlet	264	528	0	67	654	0	0	157	30	0	0	0	0	0	0	0	139	128	12	0	0
Boat - Other	999	1,280	99	362	1,390	184	0	417	106	153	0	0	36	0	0	0	646	882	288	0	22
Shoreline - Crescent Bay (Sheldon Jackson Hatchery Area)	233	249	0	29	46	0	0	87	0	153	0	0	0	0	0	0	0	0	0	0	0
Shoreline - Starrigavan Bay	425	459	0	51	32	0	0	728	0	40	0	0	0	0	0	0	70	0	0	0	0
Shoreline - Other Sitka Sound	246	309	29	199	441	309	0	0	16	182	0	0	9	0	0	0	168	108	78	0	0
Shoreline - Other	327	463	0	73	479	100	0	175	16	469	0	0	0	0	0	0	110	104	19	126	224
<b>SALTWATER TOTAL</b>	<b>1,909</b>	<b>2,858</b>	<b>112</b>	<b>1,216</b>	<b>3,626</b>	<b>854</b>	<b>0</b>	<b>1,148</b>	<b>586</b>	<b>768</b>	<b>0</b>	<b>0</b>	<b>57</b>	<b>0</b>	<b>0</b>	<b>259</b>	<b>1,650</b>	<b>1,433</b>	<b>524</b>	<b>126</b>	<b>402</b>
<b>FRESHWATER:</b>																					
Eva Lake System (Lake, Stream)	69	407	0	0	15	67	0	0	0	96	0	17	39	0	0	0	0	0	0	0	0
Baranof System (Lake, Stream)	120	176	0	0	0	0	0	0	0	45	0	0	98	0	0	0	0	0	0	0	0
Sitkoh System (Lake, Stream)	39	120	0	0	0	0	0	15	0	117	0	18	28	0	0	0	0	0	0	0	0
Other Systems	26	57	0	0	159	0	0	0	0	45	0	0	0	0	0	0	0	0	0	0	0
Other Streams	267	514	0	0	231	119	0	13	0	155	0	8	55	0	0	0	0	0	0	0	0
Other Lakes	253	277	0	0	0	45	0	0	0	184	0	119	95	0	8	0	0	0	0	0	0
<b>FRESHWATER TOTAL</b>	<b>386</b>	<b>736</b>	<b>0</b>	<b>0</b>	<b>280</b>	<b>146</b>	<b>0</b>	<b>20</b>	<b>0</b>	<b>291</b>	<b>0</b>	<b>122</b>	<b>158</b>	<b>0</b>	<b>8</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>GRAND TOTAL</b>	<b>1,953</b>	<b>2,989</b>	<b>112</b>	<b>1,216</b>	<b>3,644</b>	<b>873</b>	<b>0</b>	<b>1,149</b>	<b>586</b>	<b>805</b>	<b>0</b>	<b>122</b>	<b>171</b>	<b>0</b>	<b>8</b>	<b>259</b>	<b>1,650</b>	<b>1,433</b>	<b>524</b>	<b>126</b>	<b>402</b>

<sup>a</sup> Sitka (Area D): Baranof, Kruzof, Catherine, Yakobi, Inian, Lemesurier, Chichagof, and lesser islands and associated waters of Alaska, including drainages.

<sup>b</sup> Standard errors were calculated using the bootstrap method. Because the empirical distribution of derived confidence intervals for these estimates is not symmetrical, valid confidence intervals cannot be obtained directly.

<sup>c</sup> Refer to Appendix A3 for common names and species abbreviations.

<sup>d</sup> KI is chinook salmon less than 28 inches. KS is chinook salmon 28 inches and over.

## Appendix A59.-Juneau Area<sup>a</sup> sport fish harvest and effort by fisheries and species<sup>b</sup>, 1998.

	Days																					
	Anglers	Trips	Fished	KI <sup>c</sup>	KS <sup>c</sup>	SS	LL	RS	KO	PS	CS	DV	SH	RT	CT	BT	GR	SM	HA	RF	LC	OTHE
<b>SALTWATER:</b>																						
Boat - Doty Cove to Berners Bay and west to Pt. Retreat	13,930	29,829	41,217	723	5,200	15,393	0	970	0	3,481	1,115	1,291	0	0	24	0	0	0	6,562	2,625	100	101
Boat - Angoon Area	1,652	2,046	2,921	0	433	1,847	0	0	0	1,429	458	115	0	0	0	0	0	0	1,955	1,490	60	0
Boat - Stephens Passage	1,264	1,919	3,104	0	165	419	0	0	0	291	91	44	0	0	0	0	0	0	722	126	13	71
Boat - Lynn Canal	1,609	1,991	2,720	0	304	1,064	0	64	0	223	50	87	0	0	0	0	0	0	1,079	184	11	56
Boat - Admiralty Island	560	776	1,047	0	120	571	0	16	0	341	69	25	0	0	0	0	0	0	665	221	6	0
Boat - Funter Bay	626	951	1,331	0	267	1,767	0	15	0	565	34	0	0	0	0	0	0	0	260	283	0	27
Boat - Sheep Creek Area	365	537	1,687	0	13	0	0	0	0	0	105	0	0	0	0	0	0	0	131	38	0	0
Boat - Hand Troller Cove	495	595	791	0	68	698	0	0	0	161	46	50	0	0	0	0	0	0	65	7	0	0
Boat - Other	3,605	4,535	7,175	69	471	1,074	0	641	0	716	133	276	0	0	8	0	0	0	2,962	472	160	23
Shoreline - Sheep Creek Area	628	1,658	2,034	6	58	0	0	0	0	77	222	92	0	0	0	0	0	0	0	0	0	0
Shoreline - Auke Creek Mouth	653	781	1,017	12	90	30	0	0	0	0	15	0	0	0	0	0	0	0	0	0	0	60
Shoreline - Gastineau Hatchery - DIPAC	2,621	10,581	11,855	44	315	3,207	0	165	0	1,420	1,370	676	0	0	70	0	0	0	51	67	0	23
Shoreline - Other Juneau Road System	2,615	5,101	6,003	25	100	688	0	8	0	435	201	964	0	0	57	0	0	0	51	0	0	116
Shoreline - Other	1,369	1,422	2,373	0	89	575	0	72	0	106	58	412	0	0	0	0	0	0	50	57	0	5
<b>SALTWATER TOTAL</b>	<b>24,365</b> <sup>d</sup>	<b>62,722</b>	<b>85,275</b>	<b>879</b>	<b>7,693</b>	<b>27,333</b>	<b>0</b>	<b>1,951</b>	<b>0</b>	<b>9,245</b>	<b>3,967</b>	<b>4,032</b>	<b>0</b>	<b>0</b>	<b>159</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>14,553</b>	<b>5,570</b>	<b>350</b>	<b>482</b>
<b>FRESHWATER:</b>																						
Fish Creek (Douglas Island)	580	764	918	71	99	30	0	8	0	80	15	39	0	0	8	0	0	0	0	0	0	0
Peterson Creek and Salt Chuck	482	1,100	1,334	0	0	6	0	0	0	0	0	76	0	0	9	0	0	0	0	0	0	0
Cowee Creek	1,146	1,857	2,135	0	0	735	0	0	0	377	0	118	0	8	0	0	0	0	0	0	0	0
Montana Creek	807	1,998	2,221	6	30	274	0	8	0	0	0	349	0	24	67	0	0	0	0	0	0	0
Other Juneau Road System	550	1,200	1,379	0	0	58	0	161	0	81	168	0	0	17	33	0	0	0	0	0	0	0
Hasselborg Lake	292	162	348	0	0	0	0	0	223	0	0	74	0	0	79	0	0	0	0	0	0	0
Twin Lakes	328	483	571	0	0	0	249	0	0	0	0	0	0	131	0	0	0	0	0	0	0	0
Turner Lake	294	164	359	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Streams	1,694	1,230	2,164	0	0	176	0	1,733	0	112	15	361	0	0	129	0	0	180	0	0	0	0
Other Lakes	342	289	505	0	0	51	0	0	0	0	0	75	0	0	93	0	0	0	0	0	0	0
<b>FRESHWATER TOTAL</b>	<b>4,823</b> <sup>d</sup>	<b>9,247</b>	<b>11,934</b>	<b>77</b>	<b>129</b>	<b>1,330</b>	<b>249</b>	<b>1,910</b>	<b>223</b>	<b>650</b>	<b>198</b>	<b>1,092</b>	<b>0</b>	<b>180</b>	<b>418</b>	<b>0</b>	<b>0</b>	<b>180</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>GRAND TOTAL</b>	<b>26,487</b> <sup>d</sup>	<b>71,969</b>	<b>97,209</b>	<b>956</b>	<b>7,822</b>	<b>28,663</b>	<b>249</b>	<b>3,861</b>	<b>223</b>	<b>9,895</b>	<b>4,165</b>	<b>5,124</b>	<b>0</b>	<b>180</b>	<b>577</b>	<b>0</b>	<b>0</b>	<b>180</b>	<b>14,553</b>	<b>5,570</b>	<b>350</b>	<b>482</b>

<sup>a</sup> Juneau (Area E): All waters of Alaska, including drainages, from Cape Fanshaw to Point Sherman, including Berners Bay, Lynn Canal south of a line from Point Sherman to the Haines Borough boundary, Point Sherman, and all of Admiralty Island.

<sup>b</sup> Refer to Appendix A3 for common names and species abbreviations.

<sup>c</sup> KI is chinook salmon less than 28 inches. KS is chinook salmon 28 inches and over.

<sup>d</sup> Angler totals may not equal sum of sites due to some anglers fishing at more than one site.



**Appendix A60.-Juneau Area<sup>a</sup> standard errors<sup>b</sup> of sport fish harvest and effort by fisheries and species<sup>c</sup>, 1998.**

	Days																				
	Trips	Fished	KI <sup>d</sup>	KS <sup>d</sup>	SS	LL	RS	KO	PS	CS	DV	SH	RT	CT	BT	GR	SM	HA	RF	LC	OTHER
<b>SALTWATER:</b>																					
Boat - Doty Cove to Berners Bay and west to Pt. Retreat	2,232	3,197	209	586	1,625	0	495	0	821	286	309	0	0	18	0	0	0	814	633	38	90
Boat - Angoon Area	409	489	0	144	501	0	0	0	445	210	105	0	0	0	0	0	0	432	476	40	0
Boat - Stephens Passage	477	836	0	76	204	0	0	0	241	45	31	0	0	0	0	0	0	238	107	14	70
Boat - Lynn Canal	314	450	0	85	331	0	65	0	136	37	81	0	0	0	0	0	0	462	81	11	40
Boat - Admiralty Island	195	228	0	66	246	0	17	0	200	39	20	0	0	0	0	0	0	260	201	6	0
Boat - Funter Bay	315	393	0	124	1,072	0	15	0	477	22	0	0	0	0	0	0	0	123	155	0	29
Boat - Sheep Creek Area	186	1,113	0	13	0	0	0	0	89	0	0	0	0	0	0	0	0	104	38	0	0
Boat - Hand Troller Cove	170	217	0	39	206	0	0	0	93	34	44	0	0	0	0	0	0	68	6	0	0
Boat - Other	573	1,089	70	108	311	0	603	0	318	64	147	0	0	8	0	0	0	785	194	92	24
Shoreline - Sheep Creek Area	535	768	6	52	0	0	0	0	47	131	54	0	0	0	0	0	0	0	0	0	0
Shoreline - Auke Creek Mouth	211	259	9	45	21	0	0	0	0	15	0	0	0	0	0	0	0	0	0	0	61
Shoreline - Gastineau Hatchery - DIPAC	2,269	2,315	27	100	1,167	0	101	0	447	672	298	0	0	63	0	0	0	39	65	0	23
Shoreline - Other Juneau Road System	772	862	20	46	280	0	7	0	171	109	330	0	0	41	0	0	0	30	0	0	63
Shoreline - Other	302	673	0	33	351	0	63	0	98	41	207	0	0	0	0	0	0	37	48	0	5
<b>SALTWATER TOTAL</b>	<b>3,520</b>	<b>4,669</b>	<b>227</b>	<b>667</b>	<b>2,423</b>	<b>0</b>	<b>799</b>	<b>0</b>	<b>1,261</b>	<b>785</b>	<b>624</b>	<b>0</b>	<b>0</b>	<b>86</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1,393</b>	<b>872</b>	<b>108</b>	<b>152</b>
<b>FRESHWATER:</b>																					
Fish Creek (Douglas Island)	168	195	39	46	30	0	8	0	78	14	24	0	0	8	0	0	0	0	0	0	0
Peterson Creek and Salt Chuck	395	457	0	0	6	0	0	0	0	0	53	0	0	9	0	0	0	0	0	0	0
Cowee Creek	354	393	0	0	401	0	0	0	186	0	86	0	8	0	0	0	0	0	0	0	0
Montana Creek	421	437	7	30	98	0	8	0	0	0	169	0	23	55	0	0	0	0	0	0	0
Other Juneau Road System	297	318	0	0	41	0	73	0	82	162	0	0	18	21	0	0	0	0	0	0	0
Hasselborg Lake	49	103	0	0	0	0	0	131	0	0	53	0	0	49	0	0	0	0	0	0	0
Twin Lakes	180	187	0	0	0	138	0	0	0	0	0	0	77	0	0	0	0	0	0	0	0
Turner Lake	58	121	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Streams	164	348	0	0	83	0	520	0	77	15	251	0	0	70	0	0	181	0	0	0	0
Other Lakes	101	162	0	0	51	0	0	0	0	0	65	0	0	52	0	0	0	0	0	0	0
<b>FRESHWATER TOTAL</b>	<b>804</b>	<b>954</b>	<b>40</b>	<b>54</b>	<b>422</b>	<b>138</b>	<b>522</b>	<b>131</b>	<b>231</b>	<b>163</b>	<b>324</b>	<b>0</b>	<b>82</b>	<b>118</b>	<b>0</b>	<b>0</b>	<b>181</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>GRAND TOTAL</b>	<b>3,601</b>	<b>4,779</b>	<b>229</b>	<b>671</b>	<b>2,446</b>	<b>138</b>	<b>943</b>	<b>131</b>	<b>1,282</b>	<b>794</b>	<b>687</b>	<b>0</b>	<b>82</b>	<b>146</b>	<b>0</b>	<b>0</b>	<b>181</b>	<b>1,393</b>	<b>872</b>	<b>108</b>	<b>152</b>

<sup>a</sup> Juneau (Area E): All waters of Alaska, including drainages, from Cape Fanshaw to Point Sherman, including Berners Bay, Lynn Canal south of a line from Point Sherman to the Haines Borough boundary, Point Sherman, and all of Admiralty Island.

<sup>b</sup> Standard errors were calculated using the bootstrap method. Because the empirical distribution of derived confidence intervals for these estimates is not symmetrical, valid confidence intervals cannot be obtained directly.

<sup>c</sup> Refer to Appendix A3 for common names and species abbreviations.

<sup>d</sup> KI is chinook salmon less than 28 inches. KS is chinook salmon 28 inches and over.

**Appendix A61.-Haines-Skagway Area<sup>a</sup> sport fish harvest and effort by fisheries and species<sup>b</sup>, 1998.**

	Anglers	Days																				
		Trips	Fished	KI <sup>c</sup>	KS <sup>c</sup>	SS	RS	KO	PS	CS	DV	SH	RT	CT	BT	GR	WF	SM	HA	RF	LC	OTHER
<b>SKAGWAY SUB-AREA</b>																						
<b>SALTWATER:</b>																						
Boat	2,578	3,050	4,993	126	396	104	0	0	340	0	133	0	0	0	0	0	0	0	151	40	20	80
Shoreline	239	408	574	0	30	0	0	0	281	0	169	0	0	0	0	0	0	0	0	67	0	0
<b>SALTWATER TOTAL</b>	<b>2,771<sup>d</sup></b>	<b>3,458</b>	<b>5,567</b>	<b>126</b>	<b>426</b>	<b>104</b>	<b>0</b>	<b>0</b>	<b>621</b>	<b>0</b>	<b>302</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>151</b>	<b>107</b>	<b>20</b>	<b>80</b>
<b>FRESHWATER:</b>																						
Streams	333	683	809	0	0	0	0	0	213	17	223	0	0	0	0	0	0	150	0	0	0	0
Lakes	90	365	385	0	0	0	0	0	0	84	0	0	0	10	0	0	0	0	0	0	0	0
<b>FRESHWATER TOTAL</b>	<b>374<sup>d</sup></b>	<b>1,048</b>	<b>1,194</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>213</b>	<b>17</b>	<b>307</b>	<b>0</b>	<b>0</b>	<b>10</b>	<b>0</b>	<b>0</b>	<b>150</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>SKAGWAY SUB-AREA TOTAL</b>	<b>3,073<sup>d</sup></b>	<b>4,506</b>	<b>6,761</b>	<b>126</b>	<b>426</b>	<b>104</b>	<b>0</b>	<b>0</b>	<b>834</b>	<b>17</b>	<b>609</b>	<b>0</b>	<b>0</b>	<b>10</b>	<b>0</b>	<b>0</b>	<b>150</b>	<b>151</b>	<b>107</b>	<b>20</b>	<b>80</b>	
<b>HAINES SUB-AREA</b>																						
<b>SALTWATER:</b>																						
Boat - Lynn Canal	426	551	857	0	43	3	0	0	72	0	17	0	0	18	0	0	0	0	214	76	0	0
Boat - Other	1,135	1,654	3,417	0	96	5	64	0	61	0	191	0	0	0	0	0	0	0	199	31	0	124
Shoreline	549	1,212	1,490	0	0	3	0	0	403	0	181	0	0	0	0	0	0	0	0	0	0	74
<b>SALTWATER TOTAL</b>	<b>1,973<sup>d</sup></b>	<b>3,417</b>	<b>5,764</b>	<b>0</b>	<b>139</b>	<b>11</b>	<b>64</b>	<b>0</b>	<b>536</b>	<b>0</b>	<b>389</b>	<b>0</b>	<b>0</b>	<b>18</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>413</b>	<b>107</b>	<b>0</b>	<b>198</b>
<b>FRESHWATER:</b>																						
Chilkoot River	1,030	1,202	1,789	0	0	96	0	0	457	0	364	0	0	0	0	0	0	0	0	0	0	0
Chilkat River	625	840	1,399	0	0	489	38	0	73	5	1,319	0	0	6	0	0	0	0	0	0	0	0
Other Streams	106	488	538	0	0	13	152	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Chilkoot Lake	789	1,025	1,385	0	0	123	0	0	270	29	538	0	0	31	0	0	0	0	0	0	0	0
Chilkat Lake	571	509	1,488	0	0	156	22	0	13	0	560	9	0	191	0	0	0	0	0	0	0	0
Other Lakes	199	157	289	0	0	0	0	0	0	0	178	0	0	91	0	25	0	0	0	0	0	0
<b>FRESHWATER TOTAL</b>	<b>2,521<sup>d</sup></b>	<b>4,221</b>	<b>6,888</b>	<b>0</b>	<b>0</b>	<b>877</b>	<b>212</b>	<b>0</b>	<b>813</b>	<b>34</b>	<b>2,959</b>	<b>9</b>	<b>0</b>	<b>319</b>	<b>0</b>	<b>25</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>HAINES SUB-AREA TOTAL</b>	<b>3,903<sup>d</sup></b>	<b>7,638</b>	<b>12,652</b>	<b>0</b>	<b>139</b>	<b>888</b>	<b>276</b>	<b>0</b>	<b>1,349</b>	<b>34</b>	<b>3,348</b>	<b>9</b>	<b>0</b>	<b>337</b>	<b>0</b>	<b>25</b>	<b>0</b>	<b>0</b>	<b>413</b>	<b>107</b>	<b>0</b>	<b>198</b>
<b>GRAND TOTAL</b>	<b>6,682<sup>d</sup></b>	<b>12,144</b>	<b>19,413</b>	<b>126</b>	<b>565</b>	<b>992</b>	<b>276</b>	<b>0</b>	<b>2,183</b>	<b>51</b>	<b>3,957</b>	<b>9</b>	<b>0</b>	<b>337</b>	<b>10</b>	<b>25</b>	<b>0</b>	<b>150</b>	<b>564</b>	<b>214</b>	<b>20</b>	<b>278</b>

<sup>a</sup> Haines-Skagway (Area F): All waters of Alaska, including drainages, from Point Sherman to the Canadian borders, including Lynn Canal and other waters north of a line from Point Sherman to Haines Borough boundary. Does not include Point Sherman.

<sup>b</sup> Refer to Appendix A3 for common names and species abbreviations.

<sup>c</sup> KI is chinook salmon less than 28 inches. KS is chinook salmon 28 inches and over.

<sup>d</sup> Angler totals may not equal sum of sites due to some anglers fishing at more than one site.

**Appendix A62.-Haines-Skagway Area<sup>a</sup> standard errors<sup>b</sup> of sport fish harvest and effort by fisheries and species<sup>c</sup>, 1998.**

	Days		KI <sup>d</sup>	KS <sup>d</sup>	SS	RS	KO	PS	CS	DV	SH	RT	CT	BT	GR	WF	SM	HA	RF	LC	OTHER
	Trips	Fished																			
SKAGWAY SUB-AREA																					
SALTWATER:																					
Boat	517	706	47	86	38	0	0	182	0	65	0	0	0	0	0	0	0	65	40	19	81
Shoreline	253	283	0	30	0	0	0	183	0	111	0	0	0	0	0	0	0	0	66	0	0
SALTWATER TOTAL	564	752	47	89	38	0	0	264	0	125	0	0	0	0	0	0	0	65	77	19	81
FRESHWATER:																					
Streams	319	337	0	0	0	0	0	118	17	134	0	0	0	0	0	0	150	0	0	0	0
Lakes	237	243	0	0	0	0	0	0	0	81	0	0	0	11	0	0	0	0	0	0	0
FRESHWATER TOTAL	402	420	0	0	0	0	0	118	17	155	0	0	0	11	0	0	150	0	0	0	0
SKAGWAY SUB-AREA TOTAL	668	842	47	89	38	0	0	286	17	203	0	0	0	11	0	0	150	65	77	19	81
HAINES SUB-AREA																					
SALTWATER:																					
Boat - Lynn Canal	186	234	0	29	3	0	0	70	0	17	0	0	18	0	0	0	0	119	68	0	0
Boat - Other	293	744	0	41	5	65	0	38	0	134	0	0	0	0	0	0	0	65	22	0	94
Shoreline	505	532	0	0	3	0	0	215	0	134	0	0	0	0	0	0	0	0	0	0	60
SALTWATER TOTAL	614	946	0	51	7	65	0	231	0	188	0	0	18	0	0	0	0	136	71	0	112
FRESHWATER:																					
Chilkoot River	298	348	0	0	47	0	0	178	0	121	0	0	0	0	0	0	0	0	0	0	0
Chilkat River	234	360	0	0	261	37	0	66	5	501	0	0	6	0	0	0	0	0	0	0	0
Other Streams	328	330	0	0	14	154	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Chilkoot Lake	245	330	0	0	53	0	0	141	29	236	0	0	31	0	0	0	0	0	0	0	0
Chilkat Lake	152	860	0	0	92	21	0	13	0	312	9	0	118	0	0	0	0	0	0	0	0
Other Lakes	62	115	0	0	0	0	0	0	0	85	0	0	52	0	25	0	0	0	0	0	0
FRESHWATER TOTAL	579	1,139	0	0	285	160	0	232	30	657	9	0	131	0	25	0	0	0	0	0	0
HAINES SUB-AREA TOTAL	845	1,477	0	51	286	170	0	329	30	682	9	0	132	0	25	0	0	136	71	0	112
GRAND TOTAL	1,066	1,660	47	102	288	170	0	429	33	704	9	0	132	11	25	0	150	149	104	19	140

<sup>a</sup> Haines-Skagway (Area F): All waters of Alaska, including drainages, from Point Sherman to the Canadian borders, including Lynn Canal and other waters north of a line from Point Sherman to Haines Borough boundary. Does not include Point Sherman.

<sup>b</sup> Standard errors were calculated using the bootstrap method. Because the empirical distribution of derived confidence intervals for these estimates is not symmetrical, valid confidence intervals cannot be obtained directly.

<sup>c</sup> Refer to Appendix A3 for common names and species abbreviations.

<sup>d</sup> KI in saltwater is chinook salmon less than 28 inches; in freshwater less than 16 inches. KS in saltwater is chinook salmon 28 inches and over; in freshwater 16 inches and over.

**Appendix A63.-Glacier Bay Area<sup>a</sup> sport fish harvest and effort by fisheries and species<sup>b</sup>, 1998.**

	Anglers	Days																	
		Trips	Fished	KI <sup>c</sup>	KS <sup>c</sup>	SS	RS	KO	PS	CS	DV	SH	RT	CT	WF	SM	HA	RF	LC
<b>SALTWATER:</b>																			
Boat - Icy Straits	2,420	2,875	4,628	0	670	1,366	0	0	1,041	112	34	0	0	0	0	3,168	531	58	2,603
Boat - Glacier Bay	1,247	1,027	1,817	0	98	423	32	0	46	6	25	0	0	0	0	1,341	105	100	0
Boat - Excursion Inlet	740	1,679	2,284	0	218	924	67	0	488	65	696	0	0	0	0	764	345	6	0
Boat - Gustavus Area	1,307	1,696	2,695	0	163	718	0	0	203	0	8	0	0	0	0	1,553	136	59	26
Boat - Other	387	531	824	0	122	197	0	0	175	0	51	0	0	0	0	292	166	6	12
Shoreline	469	560	823	0	43	24	0	0	53	0	713	0	0	0	0	72	0	0	0
<b>SALTWATER TOTAL</b>	5,002 <sup>d</sup>	8,368	13,071	0	1,314	3,652	99	0	2,006	183	1,527	0	0	0	0	7,190	1,283	229	2,641
<b>FRESHWATER:</b>																			
Streams	685	556	1,107	0	0	129	24	0	214	15	318	0	17	0	0	0	0	0	0
Lakes	80	42	80	0	0	0	57	0	0	0	0	0	0	31	0	0	0	0	0
<b>FRESHWATER TOTAL</b>	723 <sup>d</sup>	598	1,187	0	0	129	81	0	214	15	318	0	17	31	0	0	0	0	0
<b>GRAND TOTAL</b>	5,188 <sup>d</sup>	8,966	14,258	0	1,314	3,781	180	0	2,220	198	1,845	0	17	31	0	7,190	1,283	229	2,641

<sup>a</sup> Glacier Bay (Area G): All waters of Alaska, including drainages, from Cape Fairweather to Icy Strait and Hanus Reef, west of Point Couverden and the Haines Borough boundary, including Pleasant Island, The Sisters, and Point Couverden.

<sup>b</sup> Refer to Appendix A3 for common names and species abbreviations.

<sup>c</sup> KI is chinook salmon less than 28 inches. KS is chinook salmon 28 inches and over.

<sup>d</sup> Angler totals may not equal sum of sites due to some anglers fishing at more than one site.

**Appendix A64.-Glacier Bay Area<sup>a</sup> standard errors<sup>b</sup> of sport fish harvest and effort by fisheries and species<sup>c</sup>, 1998.**

	Days		KI <sup>d</sup>	KS <sup>d</sup>	SS	RS	KO	PS	CS	DV	SH	RT	CT	WF	SM	HA	RF	LC	OTHE
	Trips	Fished																	
SALTWATER:																			
Boat - Icy Straits	554	707	0	183	401	0	0	382	47	34	0	0	0	0	0	486	229	30	2,583
Boat - Glacier Bay	191	312	0	45	214	31	0	49	6	25	0	0	0	0	0	276	61	46	0
Boat - Excursion Inlet	406	581	0	74	319	42	0	217	70	458	0	0	0	0	0	217	247	6	0
Boat - Gustavus Area	543	658	0	73	387	0	0	141	0	8	0	0	0	0	0	410	73	39	25
Boat - Other	137	219	0	51	83	0	0	120	0	54	0	0	0	0	0	115	121	6	12
Shoreline	151	277	0	31	23	0	0	51	0	501	0	0	0	0	0	63	0	0	0
SALTWATER TOTAL	925	1,207	0	224	682	51	0	486	84	686	0	0	0	0	0	736	370	69	2,582
FRESHWATER:																			
Streams	142	348	0	0	79	17	0	136	15	156	0	16	0	0	0	0	0	0	0
Lakes	26	51	0	0	0	56	0	0	0	0	0	0	30	0	0	0	0	0	0
FRESHWATER TOTAL	145	351	0	0	79	58	0	136	15	156	0	16	30	0	0	0	0	0	0
GRAND TOTAL	939	1,273	0	224	685	78	0	506	85	697	0	16	30	0	0	736	370	69	2,582

<sup>a</sup> Glacier Bay (Area G): All waters of Alaska, including drainages, from Cape Fairweather to Icy Strait and Hanus Reef, west of Point Couverden and the Haines Borough boundary, including Pleasant Island, The Sisters, and Point Couverden.

<sup>b</sup> Standard errors were calculated using the bootstrap method. Because the empirical distribution of derived confidence intervals for these estimates is not symmetrical, valid confidence intervals cannot be obtained directly.

<sup>c</sup> Refer to Appendix A3 for common names and species abbreviations.

<sup>d</sup> KI is chinook salmon less than 28 inches. KS is chinook salmon 28 inches and over.

**Appendix A65.-Yakutat Area<sup>a</sup> sport fish harvest and effort by fisheries and species<sup>b</sup>, 1998.**

	Anglers	Days		KI <sup>c</sup>	KS <sup>d</sup>	SS	RS	KO	PS	CS	DV	SH	RT	CT	GR	NP	SM	HA	RF	LC	OTHE
		Trips	Fished																		
<b>SALTWATER:</b>																					
Boat - Yakutat Bay	3,103	3,702	5,080	0	423	2,486	72	0	0	8	8	0	0	0	0	0	0	4,359	1,087	887	13
Boat - Other	482	455	879	0	114	91	31	0	0	0	0	0	0	0	0	0	0	575	117	136	0
Shoreline	127	272	480	0	15	76	80	0	0	0	14	0	0	0	0	0	0	232	20	6	0
<b>SALTWATER TOTAL</b>	<b>3,536<sup>e</sup></b>	<b>4,429</b>	<b>6,439</b>	<b>0</b>	<b>552</b>	<b>2,653</b>	<b>183</b>	<b>0</b>	<b>0</b>	<b>8</b>	<b>22</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>5,166</b>	<b>1,224</b>	<b>1,029</b>	<b>13</b>
<b>FRESHWATER:</b>																					
Situk River, above weir	3,227	4,287	8,915	405	635	1,245	4,468	0	150	29	1,859	7	192	0	0	0	0	0	0	0	47
Situk River, below weir	2,130	2,740	5,361	255	521	1,289	4,980	0	168	0	186	4	0	0	0	0	0	0	0	0	0
Tsiu River	187	242	788	0	6	764	0	0	0	0	135	0	0	0	0	0	0	0	0	0	0
Lost River	528	769	1,252	0	0	1,228	97	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Streams	771	968	1,966	48	95	2,732	630	0	35	13	51	0	0	25	0	0	0	0	0	0	0
Ankau System (River, Lagoons, Outlet)	187	111	326	0	0	213	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Lakes	63	45	83	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>FRESHWATER TOTAL</b>	<b>4,933<sup>e</sup></b>	<b>9,162</b>	<b>18,691</b>	<b>708</b>	<b>1,257</b>	<b>7,471</b>	<b>10,175</b>	<b>0</b>	<b>353</b>	<b>42</b>	<b>2,231</b>	<b>11</b>	<b>192</b>	<b>25</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>47</b>
<b>GRAND TOTAL</b>	<b>6,118<sup>e</sup></b>	<b>13,591</b>	<b>25,130</b>	<b>708</b>	<b>1,809</b>	<b>10,124</b>	<b>10,358</b>	<b>0</b>	<b>353</b>	<b>50</b>	<b>2,253</b>	<b>11</b>	<b>192</b>	<b>25</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>5,166</b>	<b>1,224</b>	<b>1,029</b>	<b>60</b>

<sup>a</sup> Yakutat (Area H): All waters of Alaska, including drainages, from but not including, Cape Suckling to and including Cape Fairweather.

<sup>b</sup> Refer to Appendix A3 for common names and species abbreviations.

<sup>c</sup> KI is chinook salmon less than 28 inches in saltwater; chinook salmon less than 16 inches in freshwater.

<sup>d</sup> KS is chinook salmon 28 inches and over in saltwater; chinook salmon 16 inches and over in freshwater.

<sup>e</sup> Angler totals may not equal sum of sites due to some anglers fishing at more than one site.

**Appendix A66.-Yakutat Area<sup>a</sup> standard errors<sup>b</sup> of sport fish harvest and effort by fisheries and species<sup>c</sup>, 1998.**

	Days		KI <sup>d</sup>	KS <sup>e</sup>	SS	RS	KO	PS	CS	DV	SH	RT	CT	GR	NP	SM	HA	RF	LC	OTHE	
	Trips	Fished																			
<b>SALTWATER:</b>																					
Boat - Yakutat Bay	703	1,019	0	135	627	64	0	0	8	8	0	0	0	0	0	0	465	332	150	9	
Boat - Other	131	422	0	66	69	30	0	0	0	0	0	0	0	0	0	0	158	82	67	0	
Shoreline	137	217	0	16	77	84	0	0	0	14	0	0	0	0	0	0	197	19	6	0	
<b>SALTWATER TOTAL</b>	<b>723</b>	<b>1,126</b>	<b>0</b>	<b>146</b>	<b>632</b>	<b>111</b>	<b>0</b>	<b>0</b>	<b>8</b>	<b>17</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>526</b>	<b>340</b>	<b>168</b>	<b>9</b>	
<b>FRESHWATER:</b>																					
Situk River, above weir	527	1,325	143	193	338	1,063	0	78	30	891	4	171	0	0	0	0	0	0	0	45	
Situk River, below weir	365	607	131	138	385	956	0	91	0	83	4	0	0	0	0	0	0	0	0	0	
Tsiu River	95	314	0	6	263	0	0	0	0	134	0	0	0	0	0	0	0	0	0	0	
Lost River	197	282	0	0	353	95	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Other Streams	219	558	33	57	998	333	0	25	13	38	0	0	19	0	0	0	0	0	0	0	
Ankau System (River, Lagoons, Outlet)	40	137	0	0	98	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Lakes	35	68	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<b>FRESHWATER TOTAL</b>	<b>711</b>	<b>1,636</b>	<b>196</b>	<b>251</b>	<b>1,223</b>	<b>1,472</b>	<b>0</b>	<b>125</b>	<b>33</b>	<b>907</b>	<b>6</b>	<b>171</b>	<b>19</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>45</b>	
<b>GRAND TOTAL</b>	<b>1,033</b>	<b>1,938</b>	<b>196</b>	<b>289</b>	<b>1,396</b>	<b>1,474</b>	<b>0</b>	<b>125</b>	<b>34</b>	<b>907</b>	<b>6</b>	<b>171</b>	<b>19</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>526</b>	<b>340</b>	<b>168</b>	<b>46</b>	

<sup>a</sup> Yakutat (Area H): All waters of Alaska, including drainages, from but not including, Cape Suckling to and including Cape Fairweather.

<sup>b</sup> Standard errors were calculated using the bootstrap method. Because the empirical distribution of derived confidence intervals for these estimates is not symmetrical, valid confidence intervals cannot be obtained directly.

<sup>c</sup> Refer to Appendix A3 for common names and species abbreviations.

<sup>d</sup> KI is chinook salmon less than 28 inches in saltwater; chinook salmon less than 16 inches in freshwater.

<sup>e</sup> KS is chinook salmon 28 inches and over in saltwater; chinook salmon 16 inches and over in freshwater.

**Appendix A67.-Upper Copper/Upper Susitna Drainages<sup>a</sup> sport fish harvest and effort by fisheries and species<sup>b</sup>, 1998.**

	Anglers	Days							DV							
		Trips	Fished	KS	SS	LL	RS	KO	LT	AC	SH	RT	GR	WF	BB	OTHE
Gulkana River (Paxson to Sourdough)	4,695	3,407	7,054	885	0	0	1,557	0	0	0	0	1,571	26	9	0	
Gulkana River (Sourdough to Highway)	8,987	8,291	15,075	3,786	0	0	3,460	0	0	0	0	629	0	0	0	
Gulkana River Other	2,369	2,577	5,017	732	0	0	1,319	0	15	0	0	234	0	0	0	
Klutina River	5,871	4,994	8,919	2,608	0	0	4,241	0	0	856	0	8	321	24	0	
Mendeltna Creek	760	416	809	0	0	0	0	0	0	0	0	579	26	0	0	
Tonsina River	474	560	848	39	238	0	68	0	0	98	0	8	125	0	0	
Other Streams	1,754	1,980	3,070	195	51	0	482	0	29	265	0	86	1,410	8	0	
Lake Louise	1,905	2,138	3,490	0	0	0	0	0	625	0	0	990	31	0	0	
Susitna Lake	529	522	1,052	0	0	0	0	0	131	0	0	241	0	149	0	
Van (Silver) Lake	1,154	885	1,920	0	0	0	0	0	0	0	3,365	0	0	0	0	
Paxson Lake	1,697	1,163	2,372	0	0	0	34	0	205	0	0	97	131	535	0	
Summit Lake (near Paxson)	757	572	1,069	0	0	0	0	0	59	0	0	0	198	8	0	
Crosswind Lake	525	500	966	0	0	0	0	0	238	0	0	279	38	139	0	
Other Lakes	3,102	2,523	5,045	0	0	477	23	0	421	370	0	1,715	1,799	102	645	
<b>TOTAL</b>	26,044 <sup>c</sup>	30,528	56,706	8,245	289	477	11,184	0	1,723	1,589	0	5,182	8,275	584	1,485	0

<sup>a</sup> Upper Copper/Upper Susitna Drainages (Area I): All Alaskan waters, including drainages of the Copper River upstream from a line between the south bank of Haley Creek and the south bank of Canyon Creek in Wood Canyon, and the Upper Susitna River drainage below its confluence with the Oshetna River. Does not include Oshetna River drainage.

<sup>b</sup> Refer to Appendix A3 for common names and species abbreviations.

<sup>c</sup> Angler totals may not equal sum of sites due to some anglers fishing at more than one site.



**Appendix A68.-Upper Copper/Upper Susitna Drainages<sup>a</sup> standard errors<sup>b</sup> of sport fish harvest and effort by fisheries and species<sup>c</sup>, 1998.**

	Days		DV												
	Trips	Fished	KS	SS	LL	RS	KO	LT	AC	SH	RT	GR	WF	BB	OTHE
Gulkana River (Paxson to Sourdough)	350	658	167	0	0	405	0	0	0	0	0	425	17	9	0
Gulkana River (Sourdough to Highway)	635	1,114	389	0	0	583	0	0	0	0	0	309	0	0	0
Gulkana River Other	383	762	119	0	0	363	0	14	0	0	0	129	0	0	0
Klutina River	488	799	299	0	0	801	0	0	374	0	8	152	18	0	0
Mendeltna Creek	95	231	0	0	0	0	0	0	0	0	0	337	28	0	0
Tonsina River	181	244	30	233	0	72	0	0	86	0	9	72	0	0	0
Other Streams	297	430	68	36	0	225	0	23	132	0	64	479	8	0	0
Lake Louise	332	500	0	0	0	0	0	153	0	0	0	528	22	0	0
Susitna Lake	149	310	0	0	0	0	0	84	0	0	0	153	0	64	0
Van (Silver) Lake	271	497	0	0	0	0	0	0	0	0	1,021	0	0	0	0
Paxson Lake	200	424	0	0	0	20	0	59	0	0	0	57	87	412	0
Summit Lake (near Paxson)	130	268	0	0	0	0	0	34	0	0	0	205	9	0	0
Crosswind Lake	132	289	0	0	0	0	0	69	0	0	0	155	38	63	0
Other Lakes	284	562	0	0	271	23	0	129	188	0	559	362	104	265	0
<b>TOTAL</b>	<b>1,263</b>	<b>2,179</b>	<b>544</b>	<b>237</b>	<b>271</b>	<b>1,166</b>	<b>0</b>	<b>239</b>	<b>443</b>	<b>0</b>	<b>1,131</b>	<b>1,079</b>	<b>248</b>	<b>497</b>	<b>0</b>

<sup>a</sup> Upper Copper/Upper Susitna Drainages (Area I): All Alaskan waters, including drainages of the Copper River upstream from a line between the south bank of Haley Creek and the south bank of Canyon Creek in Wood Canyon, and the Upper Susitna River drainage below its confluence with the Oshetna River. Does not include Oshetna River drainage.

<sup>b</sup> Standard errors were calculated using the bootstrap method. Because the empirical distribution of derived confidence intervals for these estimates is not symmetrical, valid confidence intervals cannot be obtained directly.

<sup>c</sup> Refer to Appendix A3 for common names and species abbreviations.

**Appendix A69.-Prince William Sound Area<sup>a</sup> sport fish harvest and effort by fisheries and species<sup>b</sup>, 1998.**

	Anglers	Trips	Days			DV																
			Fished	KS	SS	RS	PS	CS	LT	AC	SH	RT	CT	GR	WF	SM	HA	SK	RF	LC	RCL	OTHE
<b>SALTWATER:</b>																						
Boat - Valdez Bay (including Port Valdez)	17,220	16,886	29,668	534	32,672	373	11,674	347	0	14	0	0	31	0	0	0	9,211	33	4,279	825	0	512
Boat - Passage Canal (Whittier)	3,654	3,614	6,163	258	1,289	1,514	133	160	0	0	0	0	0	0	0	0	2,519	17	1,452	213	0	273
Boat - Orca Inlet	2,693	3,505	6,069	149	463	29	85	0	0	0	0	0	0	0	0	1,522	3,301	7	963	332	0	84
Boat - Esther Island	1,503	2,628	4,224	123	770	245	631	369	0	239	0	0	0	0	0	0	1,003	22	729	63	0	0
Boat - Montague Island	1,966	1,143	2,125	0	124	0	171	8	0	0	0	0	210	0	0	0	2,158	0	598	214	0	0
Boat - Hinchinbrook Area	386	305	568	0	45	0	0	0	0	0	0	0	0	0	0	0	375	0	13	40	0	0
Boat - Other	5,265	6,785	12,410	137	1,720	2,849	846	134	0	112	0	0	0	0	0	14	5,420	29	5,311	506	0	151
Shoreline - Valdez Road System	4,900	4,548	7,810	37	2,317	0	10,897	441	0	264	0	0	0	0	0	1,218	125	0	14	0	0	629
Shoreline - Orca Inlet	873	2,353	2,889	179	609	0	1,762	15	0	0	9	0	0	0	0	0	66	0	13	0	0	0
Shoreline - Remainder of Valdez Arm	5,402	4,438	8,139	0	2,093	193	9,362	636	0	34	0	0	0	0	0	440	22	0	0	0	60	3,289
Shoreline - Other	1,200	1,669	2,561	69	677	354	380	113	0	76	0	0	168	0	0	0	101	7	79	67	360	5
<b>SALTWATER TOTAL</b>	<b>38,813<sup>c</sup></b>	<b>47,874</b>	<b>82,626</b>	<b>1,486</b>	<b>42,779</b>	<b>5,557</b>	<b>35,941</b>	<b>2,223</b>	<b>0</b>	<b>739</b>	<b>9</b>	<b>0</b>	<b>409</b>	<b>0</b>	<b>0</b>	<b>3,194</b>	<b>24,301</b>	<b>115</b>	<b>13,451</b>	<b>2,260</b>	<b>420</b>	<b>4,943</b>
<b>FRESHWATER:</b>																						
Eyak River	967	2,213	3,027	0	2,732	595	49	0	0	0	0	0	33	0	0	0	0	0	0	0	0	0
Eshamy Lake, Creek, and Lagoon	289	193	335	0	178	94	0	0	0	0	0	0	17	0	0	0	0	0	0	0	0	0
Robe River Drainage	346	390	555	0	6	0	0	0	0	173	0	0	0	0	0	0	0	0	0	0	0	0
Alaganik Slough	469	500	820	0	340	161	0	0	0	84	0	0	108	0	0	0	0	0	0	0	0	0
Clear Creek	985	867	1,812	94	869	1,157	20	0	0	236	0	0	0	0	0	0	0	0	0	0	0	0
Other Streams	1,455	1,101	2,206	42	911	596	201	17	0	364	0	25	84	0	0	0	0	0	0	0	0	0
Other Lakes	774	577	1,122	0	158	152	20	8	0	136	0	312	66	15	0	0	0	0	0	0	0	0
<b>FRESHWATER TOTAL</b>	<b>3,933<sup>c</sup></b>	<b>5,841</b>	<b>9,877</b>	<b>136</b>	<b>5,194</b>	<b>2,755</b>	<b>290</b>	<b>25</b>	<b>0</b>	<b>993</b>	<b>0</b>	<b>337</b>	<b>308</b>	<b>15</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>GRAND TOTAL</b>	<b>40,525<sup>c</sup></b>	<b>53,715</b>	<b>92,503</b>	<b>1,622</b>	<b>47,973</b>	<b>8,312</b>	<b>36,231</b>	<b>2,248</b>	<b>0</b>	<b>1,732</b>	<b>9</b>	<b>337</b>	<b>717</b>	<b>15</b>	<b>0</b>	<b>3,194</b>	<b>24,301</b>	<b>115</b>	<b>13,451</b>	<b>2,260</b>	<b>420</b>	<b>4,943</b>

<sup>a</sup> Prince William Sound (Area J): All Alaskan waters, including drainages, from and including Cape Suckling through Prince William Sound to Cape Puget, including all waters emptying into Port Bainbridge; and, that portion of the Copper River drainage downstream of a line between the south bank of Haley Creek and the south bank of Canyon Creek in Wood Canyon.

<sup>b</sup> Refer to Appendix A3 for common names and species abbreviations.

<sup>c</sup> Angler totals may not equal sum of sites due to some anglers fishing at more than one site.

**Appendix A70.-Prince William Sound Area<sup>a</sup> standard errors<sup>b</sup> of sport fish harvest by fisheries and species<sup>c</sup>, 1998.**

	Days		DV																		
	Trips	Fished	KS	SS	RS	PS	CS	LT	AC	SH	RT	CT	GR	WF	SM	HA	SK	RF	LC	RCL	OTHER
<b>SALTWATER:</b>																					
Boat - Valdez Bay (including Port Valdez)	1,262	2,263	237	3,506	165	2,551	139	0	14	0	0	31	0	0	0	817	17	633	172	0	242
Boat - Passage Canal (Whittier)	565	951	95	343	746	69	132	0	0	0	0	0	0	0	401	17	302	98	0	203	
Boat - Orca Inlet	602	1,500	65	180	30	46	0	0	0	0	0	0	0	1,535	605	7	334	221	0	54	
Boat - Esther Island	628	846	89	262	169	247	188	0	239	0	0	0	0	0	244	16	203	26	0	0	
Boat - Montague Island	176	412	0	58	0	150	8	0	0	0	214	0	0	0	344	0	173	66	0	0	
Boat - Hinchinbrook Area	105	265	0	46	0	0	0	0	0	0	0	0	0	0	110	0	13	21	0	0	
Boat - Other	819	1,337	64	541	806	260	87	0	78	0	0	0	0	14	649	18	1,665	100	0	64	
Shoreline - Valdez Road System	635	898	36	580	0	2,500	352	0	229	0	0	0	0	1,208	76	0	13	0	0	520	
Shoreline - Orca Inlet	563	650	78	399	0	1,075	14	0	0	8	0	0	0	0	48	0	13	0	0	0	
Shoreline - Remainder of Valdez Arm	471	805	0	455	141	1,204	379	0	33	0	0	0	0	375	17	0	0	0	58	1,436	
Shoreline - Other	383	490	41	232	217	179	97	0	44	0	179	0	0	0	58	8	36	40	369	5	
<b>SALTWATER TOTAL</b>	<b>2,127</b>	<b>3,646</b>	<b>290</b>	<b>3,671</b>	<b>1,165</b>	<b>3,942</b>	<b>608</b>	<b>0</b>	<b>346</b>	<b>8</b>	<b>0</b>	<b>283</b>	<b>0</b>	<b>0</b>	<b>1,968</b>	<b>1,351</b>	<b>36</b>	<b>1,847</b>	<b>322</b>	<b>374</b>	<b>1,543</b>
<b>FRESHWATER:</b>																					
Eyak River	583	705	0	816	282	36	0	0	0	0	0	24	0	0	0	0	0	0	0	0	
Eshamy Lake, Creek, and Lagoon	79	129	0	163	64	0	0	0	0	0	17	0	0	0	0	0	0	0	0	0	
Robe River Drainage	122	155	0	6	0	0	0	101	0	0	0	0	0	0	0	0	0	0	0	0	
Alaganik Slough	163	291	0	207	157	0	0	83	0	0	63	0	0	0	0	0	0	0	0	0	
Clear Creek	191	464	79	345	508	15	0	142	0	0	0	0	0	0	0	0	0	0	0	0	
Other Streams	197	377	26	486	223	91	17	150	0	19	56	0	0	0	0	0	0	0	0	0	
Other Lakes	132	257	0	116	127	15	8	138	0	147	41	15	0	0	0	0	0	0	0	0	
<b>FRESHWATER TOTAL</b>	<b>711</b>	<b>1,064</b>	<b>84</b>	<b>1,069</b>	<b>662</b>	<b>103</b>	<b>19</b>	<b>0</b>	<b>288</b>	<b>0</b>	<b>148</b>	<b>97</b>	<b>15</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	
<b>GRAND TOTAL</b>	<b>2,272</b>	<b>3,804</b>	<b>305</b>	<b>3,847</b>	<b>1,320</b>	<b>3,938</b>	<b>608</b>	<b>0</b>	<b>452</b>	<b>8</b>	<b>148</b>	<b>298</b>	<b>15</b>	<b>0</b>	<b>1,968</b>	<b>1,351</b>	<b>36</b>	<b>1,847</b>	<b>322</b>	<b>374</b>	<b>1,543</b>

<sup>a</sup> Prince William Sound (Area J): All Alaskan waters, including drainages, from and including Cape Suckling through Prince William Sound to Cape Puget, including all waters emptying into Port Bainbridge; and, that portion of the Copper River drainage downstream of a line between the south bank of Haley Creek and the south bank of Canyon Creek in Wood Canyon.

<sup>b</sup> Standard errors were calculated using the bootstrap method. Because the empirical distribution of derived confidence intervals for these estimates is not symmetrical, valid confidence intervals cannot be obtained directly.

<sup>c</sup> Refer to Appendix A3 for common names and species abbreviations.

**Appendix A71.-Knik Arm Drainage Area<sup>a</sup> sport fish harvest and effort by fisheries and species<sup>b</sup>, 1998.**

	Days			DV																
	Anglers	Trips	Fished	KS	SS	LL	RS	KO	PS	CS	LT	AC	RT	GR	WF	NP	BB	SM	LC	OTHE
<b>SALTWATER:</b>																				
Boat	145	238	330	0	73	0	5	0	0	13	0	8	0	0	0	0	0	0	0	0
Shoreline	256	330	622	0	51	0	15	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>SALTWATER TOTAL</b>	<b>400<sup>c</sup></b>	<b>568</b>	<b>952</b>	<b>0</b>	<b>124</b>	<b>0</b>	<b>20</b>	<b>0</b>	<b>0</b>	<b>13</b>	<b>0</b>	<b>8</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>FRESHWATER:</b>																				
Little Susitna River	12,819	16,631	22,108	2,031	14,469	0	872	0	552	467	0	111	59	0	310	42	0	0	0	0
Knik River and Tributaries, including Jim Creek	3,124	4,349	5,272	0	4,197	0	1,220	0	22	77	0	576	0	0	15	0	0	0	0	0
Wasilla Creek (Rabbit Slough)	761	915	1,171	0	970	0	212	0	0	0	0	17	0	0	0	0	0	0	0	0
Cottonwood Creek	1,738	2,742	3,454	0	1,098	0	2,906	0	0	0	0	17	390	0	0	0	0	0	0	0
Fish Creek (Big Lake Drainage)	686	1,472	2,256	0	1,334	0	154	0	44	15	0	0	412	0	0	101	0	0	0	0
Eklutna Power Plant Raceway	2,880	3,675	5,100	0	1,422	0	57	0	0	225	0	130	0	0	15	0	0	0	0	0
Other Streams	307	300	386	0	98	8	58	0	28	0	0	34	42	0	0	0	0	0	0	0
Wasilla Lake	457	493	615	0	0	0	0	0	0	0	0	0	483	0	4	0	0	0	0	0
Finger Lake	2,365	3,178	4,286	0	2,218	0	0	0	0	0	0	176	1,804	82	0	0	0	0	0	9
Kepler Lake Complex	3,368	4,782	6,500	0	294	0	0	0	0	0	0	51	3,167	557	0	0	0	0	0	18
Big Lake	2,547	5,180	6,143	0	342	0	0	0	0	0	0	1,139	1,358	0	0	169	121	0	0	0
Cottonwood Lake	243	630	642	0	34	0	0	0	0	0	0	8	491	0	0	0	0	0	0	0
Flat Horn Lake	378	388	600	0	0	0	0	0	0	0	0	0	0	0	0	910	0	0	0	0
Lucille Lake	360	389	490	0	0	0	0	0	0	0	0	0	214	0	0	0	0	0	0	0
Lorraine Lake	234	307	356	0	0	0	0	0	0	0	0	0	1,077	160	0	0	0	0	0	0
Figure Eight Lake	234	464	522	0	0	0	0	0	0	0	0	0	0	0	0	766	0	0	0	0
Knik Lake	252	574	641	0	185	0	0	0	0	0	0	0	984	0	0	0	0	0	0	0
Weiner Lake	266	227	1,064	0	0	0	0	0	0	0	0	0	236	84	0	0	0	0	0	0
Nancy Lake	1,068	1,059	1,472	0	0	0	0	0	0	0	0	34	144	0	12	201	0	0	0	0
South Rolly Lake	529	328	559	0	0	0	0	0	0	0	0	0	42	0	0	40	0	0	0	0
Nancy Lake Recreation Area, Other Fishing Sites	1,790	1,623	2,830	0	42	0	0	0	0	0	0	42	135	0	0	1,782	0	0	0	0
Other Lakes	3,713	8,112	10,799	0	38	1,934	0	0	0	0	68	82	6,655	417	0	261	0	0	0	18
<b>FRESHWATER TOTAL</b>	<b>29,165<sup>c</sup></b>	<b>57,818</b>	<b>77,266</b>	<b>2,031</b>	<b>23,626</b>	<b>5,057</b>	<b>5,479</b>	<b>0</b>	<b>646</b>	<b>784</b>	<b>68</b>	<b>2,417</b>	<b>17,693</b>	<b>1,300</b>	<b>356</b>	<b>4,272</b>	<b>121</b>	<b>0</b>	<b>0</b>	<b>45</b>
<b>GRAND TOTAL</b>	<b>29,377<sup>c</sup></b>	<b>58,386</b>	<b>78,218</b>	<b>2,031</b>	<b>23,750</b>	<b>5,057</b>	<b>5,499</b>	<b>0</b>	<b>646</b>	<b>797</b>	<b>68</b>	<b>2,425</b>	<b>17,693</b>	<b>1,300</b>	<b>356</b>	<b>4,272</b>	<b>121</b>	<b>0</b>	<b>0</b>	<b>45</b>

<sup>a</sup> Knik Arm Drainage (Area K): All waters, including drainages, of the Matanuska and Knik Rivers; the Little Susitna River, including all waters draining to the south and east into Knik Arm, including the western half of Knik Arm to the Matanuska-Susitna Borough/Anchorage Municipality boundary in Knik Arm; and, the waters of the Nancy Lake Recreation Area.

<sup>b</sup> Refer to Appendix A3 for common names and species abbreviations.

<sup>c</sup> Angler totals may not equal sum of sites due to some anglers fishing at more than one site.

**Appendix A72.-Knik Arm Drainage Area<sup>a</sup> standard errors<sup>b</sup> of sport fish harvest and effort by fisheries and species<sup>c</sup>, 1998.**

	Days		DV																
	Trips	Fished	KS	SS	LL	RS	KO	PS	CS	LT	AC	RT	GR	WF	NP	BB	SM	LC	OTHE
<b>SALTWATER:</b>																			
Boat	100	130	0	43	0	5	0	0	13	0	8	0	0	0	0	0	0	0	0
Shoreline	136	306	0	41	0	15	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>SALTWATER TOTAL</b>	<b>166</b>	<b>338</b>	<b>0</b>	<b>61</b>	<b>0</b>	<b>16</b>	<b>0</b>	<b>0</b>	<b>13</b>	<b>0</b>	<b>8</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>FRESHWATER:</b>																			
Little Susitna River	1,237	1,658	268	2,619	0	254	0	287	198	0	67	36	0	307	41	0	0	0	0
Knik River and Tributaries, including Jim Creek	637	740	0	813	0	267	0	17	40	0	317	0	0	15	0	0	0	0	0
Wasilla Creek (Rabbit Slough)	223	292	0	398	0	111	0	0	0	0	17	0	0	0	0	0	0	0	0
Cottonwood Creek	527	643	0	291	0	966	0	0	0	0	16	312	0	0	0	0	0	0	0
Fish Creek (Big Lake Drainage)	387	748	0	549	0	82	0	33	14	0	0	215	0	0	98	0	0	0	0
Eklutna Power Plant Raceway	552	959	0	452	0	30	0	0	106	0	85	0	0	12	0	0	0	0	0
Other Streams	93	115	0	64	8	47	0	20	0	0	34	43	0	0	0	0	0	0	0
Wasilla Lake	110	131	0	0	0	0	0	0	0	0	0	138	0	4	0	0	0	0	0
Finger Lake	567	759	0	0	651	0	0	0	0	0	105	661	52	0	0	0	0	0	9
Kepler Lake Complex	534	721	0	0	115	0	0	0	0	0	36	673	328	0	0	0	0	0	13
Big Lake	774	875	0	0	167	0	0	0	0	0	278	293	0	0	118	42	0	0	0
Cottonwood Lake	244	246	0	0	26	0	0	0	0	0	8	232	0	0	0	0	0	0	0
Flat Horn Lake	121	197	0	0	0	0	0	0	0	0	0	0	0	0	564	0	0	0	0
Lucille Lake	146	165	0	0	0	0	0	0	0	0	0	103	0	0	0	0	0	0	0
Lorraine Lake	108	118	0	0	0	0	0	0	0	0	0	409	126	0	0	0	0	0	0
Figure Eight Lake	146	155	0	0	0	0	0	0	0	0	0	0	0	0	258	0	0	0	0
Knik Lake	217	231	0	0	102	0	0	0	0	0	0	460	0	0	0	0	0	0	0
Weiner Lake	91	663	0	0	0	0	0	0	0	0	0	120	53	0	0	0	0	0	0
Nancy Lake	235	319	0	0	0	0	0	0	0	0	34	57	0	12	116	0	0	0	0
South Rolly Lake	90	130	0	0	0	0	0	0	0	0	0	31	0	0	24	0	0	0	0
Nancy Lake Recreation Area, Other Fishing Sites	243	390	0	0	42	0	0	0	0	0	42	76	0	0	720	0	0	0	0
Other Lakes	1,235	1,586	0	38	610	0	0	0	0	36	59	949	198	0	198	0	0	0	19
<b>FRESHWATER TOTAL</b>	<b>2,622</b>	<b>3,563</b>	<b>268</b>	<b>2,900</b>	<b>912</b>	<b>1,041</b>	<b>0</b>	<b>288</b>	<b>225</b>	<b>36</b>	<b>454</b>	<b>1,598</b>	<b>409</b>	<b>307</b>	<b>1,012</b>	<b>42</b>	<b>0</b>	<b>0</b>	<b>25</b>
<b>GRAND TOTAL</b>	<b>2,627</b>	<b>3,599</b>	<b>268</b>	<b>2,898</b>	<b>912</b>	<b>1,041</b>	<b>0</b>	<b>288</b>	<b>225</b>	<b>36</b>	<b>454</b>	<b>1,598</b>	<b>409</b>	<b>307</b>	<b>1,012</b>	<b>42</b>	<b>0</b>	<b>0</b>	<b>25</b>

<sup>a</sup> Knik Arm Drainage (Area K): All waters, including drainages, of the Matanuska and Knik Rivers; the Little Susitna River, including all waters draining to the south and east into Knik Arm, including the western half of Knik Arm to the Matanuska-Susitna Borough/Anchorage Municipality boundary in Knik Arm; and, the waters of the Nancy Lake Recreation Area.

<sup>b</sup> Standard errors were calculated using the bootstrap method. Because the empirical distribution of derived confidence intervals for these estimates is not symmetrical, valid confidence intervals cannot be obtained directly.

<sup>c</sup> Refer to Appendix A3 for common names and species abbreviations.

**Appendix A73.-Anchorage Area<sup>a</sup> sport fish harvest and effort by fisheries and species<sup>b</sup>, 1998.**

	Anglers	Trips	Days								DV							
			Fished	KS	SS	LL	RS	KO	PS	CS	AC	RT	GR	WF	NP	SM	LC	OTHE
<b>SALTWATER:</b>																		
Boat	310	451	707	6	140	0	114	0	43	48	80	0	0	0	0	0	0	
Shoreline	872	1,832	2,214	32	720	0	249	0	210	8	9	0	0	0	0	6,725	0	
<b>SALTWATER TOTAL</b>	<b>1,152<sup>c</sup></b>	<b>2,283</b>	<b>2,921</b>	<b>38</b>	<b>860</b>	<b>0</b>	<b>363</b>	<b>0</b>	<b>253</b>	<b>56</b>	<b>89</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>6,725</b>	<b>0</b>	
<b>FRESHWATER:</b>																		
Jewel Lake	2,955	4,151	5,373	0	0	2,321	0	0	0	0	2,529	0	0	0	0	0	535	
Campbell Point Lake	291	269	329	0	0	8	0	0	0	0	306	42	0	0	0	0	0	
Sand Lake	1,263	1,727	2,061	0	0	1,097	0	0	0	0	952	0	0	34	0	0	0	
Lower Fire Lake	1,065	1,917	2,442	0	0	0	0	0	0	0	1,021	0	0	303	0	0	0	
Mirror Lake	1,886	3,071	3,874	0	0	2,278	0	0	0	0	253	2,425	0	0	0	0	0	
Otter Lake	1,833	2,816	4,005	0	0	2,156	0	0	0	0	1,639	0	0	0	0	0	9	
Clunie Lake	1,148	2,508	2,921	0	0	841	0	0	0	0	303	1,944	0	0	0	0	5	
Gwen Lake	567	834	1,109	0	0	0	0	0	0	0	594	0	0	0	0	0	0	
Sixmile Lake	1,295	2,265	2,867	0	0	0	228	0	7	0	0	1,015	0	0	0	0	26	
Green Lake	1,258	2,666	3,371	0	0	346	0	0	0	0	955	0	0	0	0	0	26	
Hillberg Lake	691	1,087	1,557	0	0	953	0	0	0	0	307	0	0	0	0	0	26	
Triangle Lake	594	948	1,022	0	0	0	0	0	0	0	190	0	0	0	0	0	33	
C Street (Taku) Lake	927	1,464	1,731	0	0	198	0	0	0	0	282	0	0	0	0	0	69	
Fish Lake	917	1,286	1,898	0	0	0	0	0	0	0	1,083	0	0	0	0	0	26	
Cheney Lake	1,764	2,022	2,703	0	0	623	0	0	0	0	42	537	0	0	0	0	9	
Beach Lake	1,421	1,831	2,328	0	0	1,519	0	0	0	0	1,090	59	0	0	0	0	0	
DeLong Lake	950	1,583	2,000	0	0	244	0	0	0	0	1,043	0	0	0	0	0	0	
Other Lakes	793	1,618	2,314	0	0	17	0	0	0	0	84	1,327	0	0	0	0	0	
Ship Creek	13,233	39,288	44,670	2,099	14,049	0	95	0	454	93	17	0	0	0	0	0	0	
Bird Creek	10,264	18,069	20,797	0	22,406	0	448	0	1,941	236	34	0	0	0	0	0	0	
Campbell Creek	1,789	4,274	4,834	0	1,167	0	0	0	0	0	226	272	0	0	0	0	0	
Twentymile River	1,896	2,002	2,805	0	2,541	0	61	0	34	17	169	0	0	0	0	26,912	0	
Eagle River	691	901	1,023	19	15	0	0	0	0	86	160	25	0	0	0	0	0	
Other Streams	1,440	3,705	4,558	0	1,181	0	76	0	516	25	212	489	0	0	0	0	0	
<b>FRESHWATER TOTAL</b>	<b>30,569<sup>c</sup></b>	<b>102,302</b>	<b>122,592</b>	<b>2,118</b>	<b>41,359</b>	<b>12,601</b>	<b>908</b>	<b>0</b>	<b>2,952</b>	<b>457</b>	<b>1,806</b>	<b>19,761</b>	<b>59</b>	<b>0</b>	<b>337</b>	<b>26,912</b>	<b>0</b>	
<b>GRAND TOTAL</b>	<b>31,278<sup>c</sup></b>	<b>104,585</b>	<b>125,513</b>	<b>2,156</b>	<b>42,219</b>	<b>12,601</b>	<b>1,271</b>	<b>0</b>	<b>3,205</b>	<b>513</b>	<b>1,895</b>	<b>19,761</b>	<b>59</b>	<b>0</b>	<b>337</b>	<b>33,637</b>	<b>0</b>	

<sup>a</sup> Anchorage (Area L): All waters inside the area bounded by the Eklutna River drainage on the north; Knik Arm on the west; Turnagain Arm, to Ingram Creek (including Portage Creek and Placer River) on the south; and the Chugach Mountains on the east. Boundary streams are included in the area.

<sup>b</sup> Refer to Appendix A3 for common names and species abbreviations.

<sup>c</sup> Angler totals may not equal sum of sites due to some anglers fishing at more than one site.

**Appendix A74.-Anchorage Area<sup>a</sup> standard errors<sup>b</sup> of sport fish harvest and effort by fisheries and species<sup>c</sup>, 1998.**

	Days		KS	SS	LL	RS	KO	PS	CS	DV							OTHER
	Trips	Fished								AC	RT	GR	WF	NP	SM	LC	
<b>SALTWATER:</b>																	
Boat	157	252	6	86	0	111	0	42	47	77	0	0	0	0	0	0	0
Shoreline	522	564	22	336	0	183	0	166	9	9	0	0	0	0	2,278	0	0
<b>SALTWATER TOTAL</b>	<b>548</b>	<b>623</b>	<b>23</b>	<b>349</b>	<b>0</b>	<b>213</b>	<b>0</b>	<b>172</b>	<b>47</b>	<b>78</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>2,278</b>	<b>0</b>	<b>0</b>
<b>FRESHWATER:</b>																	
Jewel Lake	724	796	0	0	782	0	0	0	0	0	693	0	0	0	0	0	409
Campbell Point Lake	96	109	0	0	9	0	0	0	0	306	28	0	0	0	0	0	0
Sand Lake	569	569	0	0	460	0	0	0	0	0	335	0	0	20	0	0	0
Lower Fire Lake	516	657	0	0	0	0	0	0	0	0	419	0	0	190	0	0	0
Mirror Lake	536	690	0	0	1,217	0	0	0	0	173	642	0	0	0	0	0	0
Otter Lake	508	849	0	0	1,169	0	0	0	0	0	409	0	0	0	0	0	9
Clunie Lake	490	561	0	0	353	0	0	0	0	149	488	0	0	0	0	0	5
Gwen Lake	181	246	0	0	0	0	0	0	0	0	263	0	0	0	0	0	0
Sixmile Lake	556	600	0	0	0	160	0	7	0	0	391	0	0	0	0	0	27
Green Lake	846	915	0	0	287	0	0	0	0	0	297	0	0	0	0	0	27
Hillberg Lake	373	436	0	0	573	0	0	0	0	0	124	0	0	0	0	0	27
Triangle Lake	295	299	0	0	0	0	0	0	0	0	105	0	0	0	0	0	33
C Street (Taku) Lake	463	473	0	0	121	0	0	0	0	0	105	0	0	0	0	0	73
Fish Lake	351	510	0	0	0	0	0	0	0	0	683	0	0	0	0	0	27
Cheney Lake	344	499	0	0	253	0	0	0	0	43	183	0	0	0	0	0	9
Beach Lake	341	399	0	0	560	0	0	0	0	0	302	49	0	0	0	0	0
DeLong Lake	385	464	0	0	170	0	0	0	0	0	341	0	0	0	0	0	0
Other Lakes	467	610	0	0	17	0	0	0	0	88	510	0	0	0	0	0	0
Ship Creek	3,085	3,398	229	1,929	0	79	0	126	69	13	0	0	0	0	0	0	0
Bird Creek	1,281	1,446	0	2,901	0	283	0	462	73	25	0	0	0	0	0	0	0
Campbell Creek	995	1,029	0	795	0	0	0	0	0	120	167	0	0	0	0	0	0
Twentymile River	352	520	0	688	0	45	0	29	16	74	0	0	0	0	6,372	0	0
Eagle River	195	209	11	15	0	0	0	0	89	99	25	0	0	0	0	0	0
Other Streams	1,514	1,590	0	324	0	74	0	248	18	128	335	0	0	0	0	0	0
<b>FRESHWATER TOTAL</b>	<b>4,603</b>	<b>5,209</b>	<b>229</b>	<b>3,699</b>	<b>2,225</b>	<b>353</b>	<b>0</b>	<b>550</b>	<b>138</b>	<b>444</b>	<b>1,774</b>	<b>49</b>	<b>0</b>	<b>192</b>	<b>6,372</b>	<b>0</b>	<b>422</b>
<b>GRAND TOTAL</b>	<b>4,686</b>	<b>5,305</b>	<b>230</b>	<b>3,735</b>	<b>2,225</b>	<b>416</b>	<b>0</b>	<b>580</b>	<b>144</b>	<b>450</b>	<b>1,774</b>	<b>49</b>	<b>0</b>	<b>192</b>	<b>6,708</b>	<b>0</b>	<b>422</b>

<sup>a</sup> Anchorage (Area L): All waters inside the area bounded by the Eklutna River drainage on the north; Knik Arm on the west; Turnagain Arm, to Ingram Creek (including Portage Creek and Placer River) on the south; and the Chugach Mountains on the east. Boundary streams are included in the area.

<sup>b</sup> Standard errors were calculated using the bootstrap method. Because the empirical distribution of derived confidence intervals for these estimates is not symmetrical, valid confidence intervals cannot be obtained directly.

<sup>c</sup> Refer to Appendix A3 for common names and species abbreviations.

<sup>c</sup> Refer to Appendix A3 for common names and species abbreviations.

### Appendix A75.-East Susitna River Drainage<sup>a</sup> sport fish harvest and effort by fisheries and species<sup>b</sup>, 1998.

	Anglers	Trips	Days			DV												
			Fished	KS	SS	LL	RS	PS	CS	LT	AC	RT	GR	WF	NP	BB	OTHE	
Willow Creek	14,665	17,095	23,920	2,793	5,908	0	86	2,933	468	0	8	0	0	46	0	12	17	
Caswell Creek	2,129	1,872	2,983	226	564	0	0	20	34	0	0	0	0	0	0	0	0	
Montana Creek	9,784	9,692	14,952	1,471	2,720	0	195	1,290	490	0	59	0	0	0	0	9	0	
Sunshine Creek	1,749	1,843	2,374	116	1,598	0	68	38	8	0	0	144	63	26	0	71	0	
Talkeetna River and Tributaries, including Clear Creek	11,224	10,703	16,713	3,846	5,340	0	4,546	349	291	0	449	179	39	4	0	34	0	
Sheep Creek	4,860	6,109	9,716	700	3,417	0	103	223	688	0	119	157	91	4	0	12	0	
Little Willow Creek	3,292	3,572	4,987	546	1,185	0	43	240	75	0	0	113	8	4	0	0	0	
Goose Creek	1,649	1,727	2,510	348	382	0	0	87	90	0	0	42	42	0	0	0	0	
Birch Creek	800	890	1,063	83	920	0	30	0	73	0	0	17	0	0	0	12	0	
Kashwitna River	892	1,332	1,663	15	670	0	0	41	43	0	76	42	215	4	0	8	0	
Troublesome Creek	793	1,000	1,222	0	44	0	38	185	0	0	0	156	0	0	0	0	0	
Other Streams	1,732	2,623	3,908	328	314	0	750	173	0	0	68	17	712	0	0	0	0	
Lakes	1,394	1,975	3,003	0	24	320	0	0	0	217	110	101	243	8	130	50	0	
<b>TOTAL</b>	<b>38,827</b> <sup>c</sup>	<b>60,433</b>	<b>89,014</b>	<b>10,472</b>	<b>23,086</b>	<b>320</b>	<b>5,859</b>	<b>5,579</b>	<b>2,260</b>	<b>217</b>	<b>889</b>	<b>968</b>	<b>1,413</b>	<b>96</b>	<b>130</b>	<b>208</b>	<b>17</b>	

<sup>a</sup> East Susitna River Drainage (Area M): All drainages of the Susitna River below the Oshetna and above the Chulitna River. Includes the Oshetna River drainage. All east side drainages of both the Chulitna River and the Susitna River below its confluence with the Chulitna River, to and including Willow and Deception Creeks to the south. Fish taken from the east bank of the Chulitna and Susitna Rivers are included in this area. No saltwater fishing in this area.

<sup>b</sup> Refer to Appendix A3 for common names and species abbreviations.

<sup>c</sup> Angler totals may not equal sum of sites due to some anglers fishing at more than one site.



**Appendix A76.-East Susitna River Drainage<sup>a</sup> standard errors<sup>b</sup> of sport fish harvest and effort by fisheries and species<sup>c</sup>, 1998.**

	Days		DV													
	Trips	Fished	KS	SS	LL	RS	PS	CS	LT	AC	RT	GR	WF	NP	BB	OTHE
Willow Creek	1,258	1,860	368	1,411	0	40	622	107	0	9	0	0	33	0	11	17
Caswell Creek	269	576	58	155	0	0	21	34	0	0	0	0	0	0	0	0
Montana Creek	791	1,313	246	530	0	71	282	182	0	54	0	0	0	0	9	0
Sunshine Creek	434	459	67	450	0	50	33	9	0	0	113	61	25	0	46	0
Talkeetna River and Tributaries, including Clear Creek	1,016	1,412	415	956	0	906	196	92	0	169	77	24	4	0	33	0
Sheep Creek	783	1,672	151	835	0	64	101	380	0	81	80	60	4	0	12	0
Little Willow Creek	444	696	127	298	0	43	107	49	0	0	79	9	4	0	0	0
Goose Creek	271	542	91	168	0	0	45	67	0	0	31	34	0	0	0	0
Birch Creek	238	276	52	359	0	21	0	48	0	0	17	0	0	0	11	0
Kashwitna River	490	498	11	411	0	0	26	41	0	54	34	157	4	0	9	0
Troublesome Creek	297	299	0	28	0	28	99	0	0	0	77	0	0	0	0	0
Other Streams	658	763	137	145	0	489	125	0	0	52	18	310	0	0	0	0
Lakes	459	742	0	25	258	0	0	0	95	90	47	141	8	91	50	0
<b>TOTAL</b>	<b>2,688</b>	<b>4,058</b>	<b>698</b>	<b>2,119</b>	<b>258</b>	<b>1,058</b>	<b>780</b>	<b>455</b>	<b>95</b>	<b>223</b>	<b>208</b>	<b>391</b>	<b>43</b>	<b>91</b>	<b>81</b>	<b>17</b>

<sup>a</sup> East Susitna River Drainage (Area M): All drainages of the Susitna River below the Oshetna and above the Chulitna River. Includes the Oshetna River drainage. All east side drainages of both the Chulitna River and the Susitna River below its confluence with the Chulitna River, to and including Willow and Deception Creeks to the south. Fish taken from the east bank of the Chulitna and Susitna Rivers are included in this area. No saltwater fishing in this area.

<sup>b</sup> Standard errors were calculated using the bootstrap method. Because the empirical distribution of derived confidence intervals for these estimates is not symmetrical, valid confidence intervals cannot be obtained directly.

<sup>c</sup> Refer to Appendix A3 for common names and species abbreviations.

**Appendix A77.-West Cook Inlet-West Susitna River Drainages<sup>a</sup> sport fish harvest and effort by fisheries and species<sup>b</sup>, 1998.**

	Anglers	Days			DV																
		Trips	Fished	KS	SS	RS	PS	CS	LT	AC	RT	GR	WF	NP	BB	SM	HA	LC	RCL	OTHE	
<b>SALTWATER:</b>																					
Upper Cook Inlet (Boat Sites North of Chinitna Point)	954	914	1,157	30	44	0	66	0	0	8	0	0	0	0	0	1,878	69	0	0		
Lower Cook Inlet (Boat Sites South of Chinitna Point)	951	579	984	87	15	147	0	0	0	27	0	0	0	0	0	1,115	33	0	35		
Razor Clams: Polly Creek Beach/Crescent River Bar	329	190	329	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5,951	0	
Other Shoreline	350	250	489	6	137	0	0	0	0	30	0	0	0	0	0	749	10	0	5,309	0	
<b>SALTWATER TOTAL</b>	<b>2,287<sup>c</sup></b>	<b>1,933</b>	<b>2,959</b>	<b>123</b>	<b>196</b>	<b>147</b>	<b>66</b>	<b>0</b>	<b>0</b>	<b>65</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>749</b>	<b>3,003</b>	<b>102</b>	<b>11,260</b>	<b>35</b>	
<b>FRESHWATER:</b>																					
Deshka River (Kroto Creek) above weir	1,612	1,561	2,699	390	1,198	0	51	0	0	0	186	8	8	0	0	0	0	0	0		
Deshka River (Kroto Creek) below weir	6,191	6,640	8,875	2,994	2,432	57	651	0	0	0	32	0	28	18	23	0	0	0	0		
Lake Creek	4,492	4,829	11,260	2,511	4,353	868	321	86	0	31	285	481	0	95	3	0	0	0	0		
Fish Lake Creek and Fish Lakes (Yentna Drainage)	1,794	1,444	2,618	840	785	168	41	0	0	14	124	0	63	224	4	0	0	0	0		
Alexander Creek/Lake	3,507	3,129	6,538	1,275	1,158	86	425	267	0	0	0	0	0	1,869	0	0	0	0	0		
Talachulitna River	1,501	1,225	3,224	563	905	181	32	0	0	8	0	131	3	0	0	0	0	0	0		
Chuitna River	2,147	1,752	3,221	551	2,384	235	0	0	0	60	32	0	0	0	0	0	0	0	0		
Theodore River	264	202	280	0	380	8	14	0	0	0	25	0	0	0	0	0	0	0	0		
Kustatan River	2,110	1,812	2,749	18	3,999	314	0	0	0	102	0	10	0	0	0	0	0	0	0		
Silver Salmon Creek	327	234	440	0	422	58	0	0	0	0	0	0	0	0	0	0	0	0	0		
Yentna River	391	565	889	350	299	232	0	0	0	0	0	0	8	0	0	2,050	0	0	0		
Susitna River	292	505	957	76	477	119	0	0	0	25	135	84	4	0	841	2,247	0	0	0		
Other Sites - Susitna River Drainages	1,880	1,922	3,477	434	557	360	7	0	28	17	82	34	0	624	158	1,498	0	0	0		
Other Sites - Susitna to North Forelands	666	747	1,139	73	650	266	61	0	7	56	132	0	0	38	0	1,832	0	0	0		
Other Sites - South of North Forelands	577	418	862	45	382	288	0	0	29	27	0	0	0	8	0	0	0	0	0		
Other Streams	1,621	1,340	3,694	283	1,071	392	61	41	18	27	237	249	0	47	0	0	0	0	0		
Big River Lakes	630	445	729	0	264	1,282	0	0	0	0	0	0	0	0	0	0	0	0	0		
Trapper Lake	333	527	700	0	0	0	0	0	0	0	0	0	0	876	0	0	0	0	0		
Other Lakes	210	102	221	0	0	129	0	0	0	25	0	10	0	8	0	0	0	0	0		
<b>FRESHWATER TOTAL</b>	<b>25,251<sup>c</sup></b>	<b>29,399</b>	<b>54,572</b>	<b>10,403</b>	<b>21,716</b>	<b>5,043</b>	<b>1,664</b>	<b>394</b>	<b>82</b>	<b>392</b>	<b>1,270</b>	<b>1,007</b>	<b>114</b>	<b>3,807</b>	<b>1,029</b>	<b>7,627</b>	<b>0</b>	<b>0</b>	<b>0</b>		
<b>GRAND TOTAL</b>	<b>27,025<sup>c</sup></b>	<b>31,332</b>	<b>57,531</b>	<b>10,526</b>	<b>21,912</b>	<b>5,190</b>	<b>1,730</b>	<b>394</b>	<b>82</b>	<b>457</b>	<b>1,270</b>	<b>1,007</b>	<b>114</b>	<b>3,807</b>	<b>1,029</b>	<b>8,376</b>	<b>3,003</b>	<b>102</b>	<b>11,260</b>	<b>35</b>	

<sup>a</sup> West Cook Inlet-West Susitna River Drainages (Area N): All west side drainages of both the Chulitna River and Susitna River, below its confluence with the Chulitna River; and, all West Side Cook Inlet waters southward to and including Cape Douglas. Fish taken from the west bank of the Chulitna River and Susitna River are included in this area.

<sup>b</sup> Refer to Appendix A3 for common names and species abbreviations.

<sup>c</sup> Angler totals may not equal sum of sites due to some anglers fishing at more than one site.

**Appendix A78.-West Cook Inlet-West Susitna River Drainages<sup>a</sup> standard errors<sup>b</sup> of sport fish harvest and effort by fisheries and species<sup>c</sup>, 1998.**

	Days		DV																
	Trips	Fished	KS	SS	RS	PS	CS	LT	AC	RT	GR	WF	NP	BB	SM	HA	LC	RCL	OTHE
<b>SALTWATER:</b>																			
Upper Cook Inlet (Boat Sites North of Chinitna Point)	209	243	16	38	0	56	0	0	9	0	0	0	0	0	0	467	66	0	0
Lower Cook Inlet (Boat Sites South of Chinitna Point)	117	193	40	15	95	0	0	0	28	0	0	0	0	0	0	271	27	0	27
Razor Clams: Polly Creek Beach/Crescent River Bar	86	124	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2,451	0
Other Shoreline	74	145	6	126	0	0	0	0	20	0	0	0	0	0	766	10	0	2,381	0
<b>SALTWATER TOTAL</b>	<b>273</b>	<b>379</b>	<b>44</b>	<b>132</b>	<b>95</b>	<b>56</b>	<b>0</b>	<b>0</b>	<b>35</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>766</b>	<b>548</b>	<b>71</b>	<b>3,352</b>	<b>27</b>
<b>FRESHWATER:</b>																			
Deshka River (Kroto Creek) above weir	246	433	92	285	0	36	0	0	0	94	8	8	0	0	0	0	0	0	0
Deshka River (Kroto Creek) below weir	576	731	390	480	44	328	0	0	0	32	0	21	12	23	0	0	0	0	0
Lake Creek	610	1,263	340	1,212	344	166	61	0	20	107	371	0	53	3	0	0	0	0	0
Fish Lake Creek and Fish Lakes (Yentna Drainage)	258	431	177	366	133	30	0	0	10	110	0	43	124	4	0	0	0	0	0
Alexander Creek/Lake	381	990	188	406	62	159	273	0	0	0	0	0	622	0	0	0	0	0	0
Talachulitna River	328	576	167	609	148	26	0	0	8	0	86	3	0	0	0	0	0	0	0
Chuitna River	299	533	182	614	135	0	0	0	37	23	0	0	0	0	0	0	0	0	0
Theodore River	62	92	0	164	8	13	0	0	0	25	0	0	0	0	0	0	0	0	0
Kustatan River	257	396	13	664	210	0	0	0	46	0	11	0	0	0	0	0	0	0	0
Silver Salmon Creek	64	152	0	200	49	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Yentna River	188	263	152	131	153	0	0	0	0	0	0	7	0	0	1,458	0	0	0	0
Susitna River	208	431	38	300	86	0	0	0	25	132	83	4	0	827	1,718	0	0	0	0
Other Sites - Susitna River Drainages	277	515	103	184	250	7	0	28	16	41	24	0	168	115	1,509	0	0	0	0
Other Sites - Susitna to North Forelands	170	242	33	202	150	44	0	8	29	61	0	0	23	0	1,541	0	0	0	0
Other Sites - South of North Forelands	111	293	33	200	166	0	0	31	28	0	0	0	9	0	0	0	0	0	0
Other Streams	208	1,205	99	344	146	47	29	17	25	90	127	0	47	0	0	0	0	0	0
Big River Lakes	110	174	0	107	384	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Trapper Lake	312	318	0	0	0	0	0	0	0	0	0	0	328	0	0	0	0	0	0
Other Lakes	37	89	0	0	100	0	0	0	26	0	11	0	9	0	0	0	0	0	0
<b>FRESHWATER TOTAL</b>	<b>1,411</b>	<b>2,818</b>	<b>706</b>	<b>1,926</b>	<b>740</b>	<b>413</b>	<b>281</b>	<b>47</b>	<b>91</b>	<b>255</b>	<b>420</b>	<b>49</b>	<b>733</b>	<b>830</b>	<b>3,119</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>GRAND TOTAL</b>	<b>1,458</b>	<b>2,882</b>	<b>708</b>	<b>1,930</b>	<b>750</b>	<b>417</b>	<b>281</b>	<b>47</b>	<b>96</b>	<b>255</b>	<b>420</b>	<b>49</b>	<b>733</b>	<b>830</b>	<b>3,231</b>	<b>548</b>	<b>71</b>	<b>3,352</b>	<b>27</b>

<sup>a</sup> West Cook Inlet-West Susitna River Drainages (Area N): All west side drainages of both the Chulitna River and Susitna River, below its confluence with the Chulitna River; and, all West Side Cook Inlet waters southward to and including Cape Douglas. Fish taken from the west bank of the Chulitna River and Susitna River are included in this area.

<sup>b</sup> Standard errors were calculated using the bootstrap method. Because the empirical distribution of derived confidence intervals for these estimates is not symmetrical, valid confidence intervals cannot be obtained directly.

<sup>c</sup> Refer to Appendix A3 for common names and species abbreviations.

**Appendix A79.-Kenai River<sup>a</sup> sport fish freshwater nonguided harvest and effort by fisheries and species<sup>b</sup>, 1998.**

	Anglers	Trips	Days				DV											
			Fished	KS <sup>c</sup>	KS <sup>d</sup>	SS <sup>c</sup>	SS <sup>d</sup>	RS	PS	CS	LT	AC	RT	GR	WF	NP	SM	OTHE
Kenai River - (Cook Inlet to Soldotna Bridge)	24,069	48,203	74,170	577	1,693	7,983	4,159	51,000	4,704	0	0	1,587	422	0	12	0	7,501	551
Kenai River - (Soldotna Bridge to Moose River)	16,358	26,993	45,284	145	451	2,847	1,002	55,193	1,848	28	0	1,529	538	0	32	0	674	7
Kenai River - (Moose River to Skilak Outlet)	8,255	21,071	32,013	29	207	2,180	1,708	22,381	739	22	110	1,657	664	0	8	0	0	0
Kenai River - (Skilak Inlet to Kenai Lake)	10,227	16,912	24,866	0	0	1,496	375	19,473	0	0	7	424	0	0	0	0	0	0
<b>TOTAL</b>	<b>51,741<sup>e</sup></b>	<b>113,179</b>	<b>176,333</b>	<b>751</b>	<b>2,351</b>	<b>14,506</b>	<b>7,244</b>	<b>148,047</b>	<b>7,291</b>	<b>50</b>	<b>117</b>	<b>5,197</b>	<b>1,624</b>	<b>0</b>	<b>52</b>	<b>0</b>	<b>8,175</b>	<b>558</b>

<sup>a</sup> Kenai River (Area P): All main channel waters of the Kenai River downstream of Kenai Lake to Cook Inlet. Does not include Kenai Lake, Skilak Lake or any saltwater.

<sup>b</sup> Refer to Appendix A3 for common names and species abbreviations.

<sup>c</sup> King salmon harvested prior to July 1; coho salmon harvested prior to September 1.

<sup>d</sup> King salmon harvested after and including July 1; coho salmon harvested after and including September 1.

<sup>e</sup> Angler totals may not equal sum of sites due to some anglers fishing at more than one site.

**Appendix A80.-Kenai River<sup>a</sup> standard errors<sup>b</sup> of sport fish freshwater nonguided harvest and effort by fisheries and species<sup>c</sup>, 1998.**

	Trips	Days						DV									
		Fished	KS <sup>d</sup>	KS <sup>e</sup>	SS <sup>d</sup>	SS <sup>e</sup>	RS	PS	CS	LT	AC	RT	GR	WF	NP	SM	OTHE
Kenai River - (Cook Inlet to Soldotna Bridge)	3,108	4,690	96	181	987	587	4,103	683	0	0	259	123	0	12	0	4,129	509
Kenai River - (Soldotna Bridge to Moose River)	2,001	3,190	41	96	483	231	4,946	608	20	0	337	162	0	24	0	675	6
Kenai River - (Moose River to Skilak Outlet)	3,827	4,567	19	62	347	654	3,336	291	21	109	409	204	0	6	0	0	0
Kenai River - (Skilak Inlet to Kenai Lake)	1,465	2,303	0	0	468	172	2,006	0	0	7	164	0	0	0	0	0	0
<b>TOTAL</b>	<b>5,675</b>	<b>7,721</b>	<b>107</b>	<b>214</b>	<b>1,264</b>	<b>951</b>	<b>7,384</b>	<b>966</b>	<b>28</b>	<b>109</b>	<b>616</b>	<b>285</b>	<b>0</b>	<b>28</b>	<b>0</b>	<b>4,196</b>	<b>510</b>

<sup>a</sup> Kenai River (Area P): All main channel waters of the Kenai River downstream of Kenai Lake to Cook Inlet. Does not include Kenai Lake, Skilak Lake or any saltwater.

<sup>b</sup> Standard errors were calculated using the bootstrap method. Because the empirical distribution of derived confidence intervals for these estimates is not symmetrical, valid confidence intervals cannot be obtained directly.

<sup>c</sup> Refer to Appendix A3 for common names and species abbreviations.

<sup>d</sup> King salmon harvested prior to July 1; coho salmon harvested prior to September 1.

<sup>e</sup> King salmon harvested after and including July 1; coho salmon harvested after and including September 1.

**Appendix A81.-Kenai River<sup>a</sup> sport fish freshwater guided harvest and effort by fisheries and species<sup>b</sup>, 1998.**

	Anglers	Trips	Days						DV									
			Fished	KS <sup>c</sup>	KS <sup>d</sup>	SS <sup>c</sup>	SS <sup>d</sup>	RS	PS	CS	LT	AC	RT	GR	WF	NP	SM	OTHE
Kenai River - (Cook Inlet to Soldotna Bridge)	15,016	13,351	21,208	616	2,508	1,972	1,347	6,464	1,278	29	0	390	186	0	0	0	0	0
Kenai River - (Soldotna Bridge to Moose River)	7,512	7,067	11,058	306	749	820	428	6,570	313	0	0	258	132	25	0	0	0	0
Kenai River - (Moose River to Skilak Outlet)	2,151	2,491	4,205	42	127	193	125	1,934	31	0	0	190	73	0	0	0	0	0
Kenai River - (Skilak Inlet to Kenai Lake)	3,473	2,264	3,846	0	0	268	64	1,521	13	0	0	44	0	0	0	0	0	0
<b>TOTAL</b>	26,181 <sup>e</sup>	25,173	40,317	964	3,384	3,253	1,964	16,489	1,635	29	0	882	391	25	0	0	0	0

<sup>a</sup> Kenai River (Area P): All main channel waters of the Kenai River downstream of Kenai Lake to Cook Inlet. Does not include Kenai Lake, Skilak Lake or any saltwater.

<sup>b</sup> Refer to Appendix A3 for common names and species abbreviations.

<sup>c</sup> King salmon harvested prior to July 1; coho salmon harvested prior to September 1.

<sup>d</sup> King salmon harvested after and including July 1; coho salmon harvested after and including September 1.

<sup>e</sup> Angler totals may not equal sum of sites due to some anglers fishing at more than one site.

**Appendix A82.-Kenai River<sup>a</sup> standard errors<sup>b</sup> of sport fish freshwater guided harvest and effort by fisheries and species<sup>c</sup>, 1998.**

	Days						DV										
	Trips	Fished	KS <sup>d</sup>	KS <sup>e</sup>	SS <sup>d</sup>	SS <sup>e</sup>	RS	PS	CS	LT	AC	RT	GR	WF	NP	SM	OTHE
Kenai River - (Cook Inlet to Soldotna Bridge)	906	1,409	88	230	401	508	1,284	351	29	0	129	102	0	0	0	0	0
Kenai River - (Soldotna Bridge to Moose River)	669	1,042	69	126	207	140	1,122	137	0	0	84	80	25	0	0	0	0
Kenai River - (Moose River to Skilak Outlet)	464	912	20	46	132	57	734	31	0	0	111	40	0	0	0	0	0
Kenai River - (Skilak Inlet to Kenai Lake)	313	505	0	0	173	45	391	13	0	0	32	0	0	0	0	0	0
<b>TOTAL</b>	<b>1,285</b>	<b>2,076</b>	<b>117</b>	<b>264</b>	<b>514</b>	<b>535</b>	<b>1,874</b>	<b>383</b>	<b>29</b>	<b>0</b>	<b>193</b>	<b>140</b>	<b>25</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

<sup>a</sup> Kenai River (Area P): All main channel waters of the Kenai River downstream of Kenai Lake to Cook Inlet. Does not include Kenai Lake, Skilak Lake or any saltwater.

<sup>b</sup> Standard errors were calculated using the bootstrap method. Because the empirical distribution of derived confidence intervals for these estimates is not symmetrical, valid confidence intervals cannot be obtained directly.

<sup>c</sup> Refer to Appendix A3 for common names and species abbreviations.

<sup>d</sup> King salmon harvested prior to July 1; coho salmon harvested prior to September 1.

<sup>e</sup> King salmon harvested after and including July 1; coho salmon harvested after and including September 1.

**Appendix A83.-Kenai Peninsula Area<sup>a</sup> sport fish freshwater harvest and effort by fisheries and species<sup>b</sup>, 1998.**

	Anglers	Trips	Days										DV							
			Fished	KS	SS	LL	RS	KO	PS	CS	LT	AC	SH	RT	GR	WF	NP	BB	SM	OTHE
Anchor River	7,161	9,968	14,310	783	2,386	0	174	0	7	0	0	2,105	0	0	0	0	0	0	0	
Ninilchik River	6,663	6,203	10,994	1,453	836	0	101	0	13	0	0	272	0	0	0	0	0	0	0	
Deep Creek	4,528	5,286	9,206	539	2,035	0	185	0	47	0	0	1,061	0	0	0	0	0	0	153	
Stariski Creek	475	679	922	0	1,168	0	0	0	0	0	0	25	0	0	0	0	0	0	0	
Resurrection Creek	4,130	4,121	6,101	0	274	0	0	0	7,418	246	0	93	0	0	0	0	0	0	13	
Quartz Creek	2,088	2,643	3,166	0	0	0	0	0	0	0	0	396	0	0	0	0	0	0	0	
Sixmile Creek Drainage	955	888	1,370	0	470	0	61	0	75	67	0	0	0	0	0	0	0	0	0	
Russian River	30,033	32,399	47,942	0	4,612	0	67,821	0	244	0	0	73	0	351	0	0	0	0	36	
Kasilof River - Nonguided Bank Fishing	8,811	10,717	15,149	2,067	919	0	2,172	0	91	0	22	194	0	0	0	0	0	0	0	
Kasilof River - Nonguided Boat Fishing	2,331	3,214	4,077	576	264	0	866	0	0	0	44	17	0	0	0	0	0	0	0	
Kasilof River - Guided Bank Fishing	1,234	1,044	1,624	185	485	0	199	0	7	0	0	27	0	0	0	0	0	0	0	
Kasilof River - Guided Boat Fishing	5,435	3,503	5,637	2,011	439	0	212	0	7	0	0	136	0	0	0	0	0	0	71	
Ptarmigan Creek	411	553	701	0	0	0	0	0	0	0	0	185	0	0	0	0	0	0	0	
Other Streams	2,314	2,399	4,396	18	635	0	855	0	358	8	361	744	0	546	0	0	0	0	2,552	
Swanson River	1,902	2,818	3,422	0	2,371	0	286	0	0	0	0	40	0	535	0	0	0	0	0	
Swanson River Canoe Route Lakes	1,091	1,138	1,671	0	123	0	0	0	0	0	0	248	0	1,248	0	0	0	0	0	
Swan Lake Canoe System	792	620	1,515	0	0	34	0	0	0	0	0	254	0	547	0	0	0	0	0	
Hidden Lake	1,024	1,102	1,576	0	0	0	81	415	0	0	550	17	0	82	0	0	0	0	0	
Crescent Lake	869	693	1,145	0	0	0	0	0	0	0	0	0	0	0	536	0	0	0	0	
Skilak Lake	1,257	1,028	1,645	0	0	73	158	0	0	0	355	17	0	209	0	28	0	0	0	
Tustumena Lake	653	667	985	0	81	84	0	0	0	0	239	173	0	34	0	0	0	0	0	
Kenai Lake	381	320	520	0	0	42	0	0	0	0	181	25	0	43	0	16	0	0	0	
Johnson Lake	982	984	1,264	0	0	0	0	0	0	0	0	0	0	2,217	0	0	0	0	0	
Elephant Lake	622	830	1,013	0	0	3,744	0	0	0	0	0	0	0	534	0	0	0	0	0	
Summit Lake	394	754	991	0	0	0	0	0	0	0	0	119	0	277	0	0	0	0	0	
Other Lakes	4,340	5,925	9,052	0	137	408	257	0	0	0	546	1,487	0	4,825	336	0	114	0	0	
<b>TOTAL</b>	<b>65,394 <sup>c</sup></b>	<b>100,496</b>	<b>150,394</b>	<b>7,632</b>	<b>17,235</b>	<b>4,385</b>	<b>73,428</b>	<b>415</b>	<b>8,267</b>	<b>321</b>	<b>2,298</b>	<b>7,708</b>	<b>0</b>	<b>11,448</b>	<b>872</b>	<b>44</b>	<b>114</b>	<b>0</b>	<b>2,552</b>	<b>321</b>

<sup>a</sup> Kenai Peninsula (Area P): All waters and drainages of the Kenai Peninsula from Cape Puget around to, but excluding Ingram Creek, including Kalgin Island. Does not include the Kenai River main channel.

<sup>b</sup> Refer to Appendix A3 for common names and species abbreviations.

<sup>c</sup> Angler totals may not equal sum of sites due to some anglers fishing at more than one site.



**Appendix A84.-Kenai Peninsula Area<sup>a</sup> standard errors<sup>b</sup> of sport fish freshwater harvest and effort by fisheries and species<sup>c</sup>, 1998.**

	Trips	Days										DV							
		Fished	KS	SS	LL	RS	KO	PS	CS	LT	AC	SH	RT	GR	WF	NP	BB	SM	OTHE
Anchor River	891	1,140	119	632	0	159	0	7	0	0	453	0	0	0	0	0	0	0	
Ninilchik River	617	1,871	179	304	0	70	0	13	0	0	247	0	0	0	0	0	0	0	
Deep Creek	665	1,890	148	783	0	116	0	25	0	0	451	0	0	0	0	0	0	160	
Stariski Creek	237	298	0	467	0	0	0	0	0	0	25	0	0	0	0	0	0	0	
Resurrection Creek	628	749	0	98	0	0	0	1,169	177	0	80	0	0	0	0	0	0	13	
Quartz Creek	435	493	0	0	0	0	0	0	0	0	185	0	0	0	0	0	0	0	
Sixmile Creek Drainage	286	350	0	247	0	39	0	36	50	0	0	0	0	0	0	0	0	0	
Russian River	1,475	2,141	0	812	0	4,192	0	132	0	0	40	0	263	0	0	0	0	34	
Kasilof River - Nonguided Bank Fishing	842	1,166	242	361	0	449	0	79	0	16	67	0	0	0	0	0	0	0	
Kasilof River - Nonguided Boat Fishing	612	664	128	94	0	427	0	0	0	34	17	0	0	0	0	0	0	0	
Kasilof River - Guided Bank Fishing	206	307	85	204	0	94	0	7	0	0	27	0	0	0	0	0	0	0	
Kasilof River - Guided Boat Fishing	350	499	239	153	0	112	0	7	0	0	87	0	0	0	0	0	0	74	
Ptarmigan Creek	161	202	0	0	0	0	0	0	0	0	132	0	0	0	0	0	0	0	
Other Streams	336	644	11	235	0	302	0	326	8	234	265	0	272	0	0	0	2,606	49	
Swanson River	559	598	0	776	0	182	0	0	0	0	42	0	210	0	0	0	0	0	
Swanson River Canoe Route Lakes	255	327	0	88	0	0	0	0	0	0	139	0	360	0	0	0	0	0	
Swan Lake Canoe System	199	408	0	0	26	0	0	0	0	0	130	0	173	0	0	0	0	0	
Hidden Lake	234	281	0	0	0	78	167	0	0	163	12	0	38	0	0	0	0	0	
Crescent Lake	145	264	0	0	0	0	0	0	0	0	0	0	0	176	0	0	0	0	
Skilak Lake	206	330	0	0	50	113	0	0	0	148	16	0	176	0	29	0	0	0	
Tustumena Lake	230	264	0	65	83	0	0	0	0	126	94	0	35	0	0	0	0	0	
Kenai Lake	92	145	0	0	42	0	0	0	0	83	19	0	37	0	12	0	0	0	
Johnson Lake	249	280	0	0	0	0	0	0	0	0	0	0	775	0	0	0	0	0	
Elephant Lake	286	314	0	0	2,363	0	0	0	0	0	0	0	235	0	0	0	0	0	
Summit Lake	310	360	0	0	0	0	0	0	0	102	0	138	0	0	0	0	0	0	
Other Lakes	866	1,078	0	108	158	183	0	0	0	232	499	0	714	120	0	88	0	0	
<b>TOTAL</b>	<b>3,276</b>	<b>5,150</b>	<b>472</b>	<b>1,754</b>	<b>2,372</b>	<b>4,352</b>	<b>167</b>	<b>1,232</b>	<b>183</b>	<b>434</b>	<b>968</b>	<b>0</b>	<b>1,240</b>	<b>212</b>	<b>32</b>	<b>88</b>	<b>0</b>	<b>2,606</b>	<b>192</b>

<sup>a</sup> Kenai Peninsula (Area P): All waters and drainages of the Kenai Peninsula from Cape Puget around to, but excluding Ingram Creek, including Kalgin Island. Does not include the Kenai River main channel.

<sup>b</sup> Standard errors were calculated using the bootstrap method. Because the empirical distribution of derived confidence intervals for these estimates is not symmetrical, valid confidence intervals cannot be obtained directly.

<sup>c</sup> Refer to Appendix A3 for common names and species abbreviations.

### Appendix A85.-Kenai Peninsula Area<sup>a</sup> sport fish saltwater harvest and effort by fisheries for finfish species<sup>b</sup>, 1998.

	Anglers	Trips	Days Fished	KS <sup>c</sup>	KS <sup>d</sup>	SS	RS	PS	CS	DV		HA	SK	RF	LC	PC	OTHE	
<b>SALTWATER CHARTER BOAT:</b>																		
Barren Islands	6,977	4,352	7,517	24	0	50	0	0	0	0	5	0	11,783	17	374	185	413	51
Resurrection Bay (Seward)	19,588	12,674	21,467	141	122	15,817	431	406	49	72	0	34	15,514	89	8,917	1,074	588	225
Anchor River, Whiskey Gulch, Deep Creek, and Ninilchik River Areas	26,472	18,278	28,586	3,183	516	501	145	126	0	42	0	255	41,733	17	160	241	694	91
Other Cook Inlet North of Ninilchik River	286	229	350	30	0	15	0	0	0	0	0	0	470	0	0	35	0	0
Other Cook Inlet/Gulf Coast West of Gore Point	32,432	19,310	35,135	1,472	259	2,335	202	918	6	185	7	34	48,109	67	1,229	427	840	106
Other Gulf Coast East of Gore Point	824	575	942	0	0	471	0	0	0	0	0	0	972	0	506	105	218	36
<b>CHARTER BOAT TOTAL</b>	<b>80,568<sup>e</sup></b>	<b>55,418</b>	<b>93,997</b>	<b>4,850</b>	<b>897</b>	<b>19,189</b>	<b>778</b>	<b>1,450</b>	<b>55</b>	<b>299</b>	<b>12</b>	<b>323</b>	<b>118,581</b>	<b>190</b>	<b>11,186</b>	<b>2,067</b>	<b>2,753</b>	<b>509</b>
<b>SALTWATER PRIVATE BOAT:</b>																		
Barren Islands	592	439	851	0	0	0	0	0	0	0	0	0	1,034	0	7	0	0	17
Resurrection Bay (Seward)	14,901	18,678	30,450	403	477	40,894	439	1,314	8	670	0	7,336	6,932	100	10,136	608	564	148
Anchor River, Whiskey Gulch, Deep Creek, and Ninilchik River Areas	17,729	26,747	38,033	2,600	1,164	1,016	447	82	0	107	0	0	40,586	61	65	116	491	176
Other Cook Inlet North of Ninilchik River	171	280	299	21	0	0	64	0	0	41	0	0	169	0	0	0	40	0
Other Cook Inlet/Gulf Coast West of Gore Point	19,743	23,759	37,992	1,163	942	3,754	1,110	3,590	429	844	0	15	31,977	44	2,095	295	1,300	353
Other Gulf Coast East of Gore Point	630	1,068	1,679	0	0	1,658	0	95	0	0	0	0	924	0	1,078	401	23	0
<b>PRIVATE BOAT TOTAL</b>	<b>47,713<sup>e</sup></b>	<b>70,971</b>	<b>109,304</b>	<b>4,187</b>	<b>2,583</b>	<b>47,322</b>	<b>2,060</b>	<b>5,081</b>	<b>437</b>	<b>1,662</b>	<b>0</b>	<b>7,351</b>	<b>81,622</b>	<b>205</b>	<b>13,381</b>	<b>1,420</b>	<b>2,418</b>	<b>694</b>
<b>BOAT TOTAL</b>	<b>122,414<sup>e</sup></b>	<b>126,389</b>	<b>203,301</b>	<b>9,037</b>	<b>3,480</b>	<b>66,511</b>	<b>2,838</b>	<b>6,531</b>	<b>492</b>	<b>1,961</b>	<b>12</b>	<b>7,674</b>	<b>200,203</b>	<b>395</b>	<b>24,567</b>	<b>3,487</b>	<b>5,171</b>	<b>1,203</b>
<b>SALTWATER SHORELINE:</b>																		
Homer Spit (Kachemak Bay)	7,998	10,665	15,093	1,051	805	6,672	165	133	43	161	12	0	81	0	0	0	61	43
Resurrection Bay (Seward)	7,962	10,290	16,436	1,116	1,008	10,268	383	1,022	152	119	16	449	365	7	238	0	5	137
Anchor River, Whiskey Gulch, Deep Creek, and Ninilchik River Areas	856	1,300	1,756	76	104	263	45	0	0	107	0	0	305	0	0	0	0	0
Shoreline - Other	1,308	1,670	3,280	152	152	333	448	643	40	608	0	0	152	29	76	55	15	130
<b>SHORELINE TOTAL</b>	<b>17,002<sup>e</sup></b>	<b>23,925</b>	<b>36,565</b>	<b>2,395</b>	<b>2,069</b>	<b>17,536</b>	<b>1,041</b>	<b>1,798</b>	<b>235</b>	<b>995</b>	<b>28</b>	<b>449</b>	<b>903</b>	<b>36</b>	<b>314</b>	<b>55</b>	<b>81</b>	<b>310</b>
<b>GRAND TOTAL</b>	<b>130,435<sup>e</sup></b>	<b>150,314</b>	<b>239,866</b>	<b>11,432</b>	<b>5,549</b>	<b>84,047</b>	<b>3,879</b>	<b>8,329</b>	<b>727</b>	<b>2,956</b>	<b>40</b>	<b>8,123</b>	<b>201,106</b>	<b>431</b>	<b>24,881</b>	<b>3,542</b>	<b>5,252</b>	<b>1,513</b>

<sup>a</sup> Kenai Peninsula (Area P): All Alaskan saltwater around the Kenai Peninsula from Cape Puget around to, but excluding, Ingram Creek, including waters around Kalgin Island.

<sup>b</sup> Refer to Appendix A3 for common names and species abbreviations.

<sup>c</sup> King salmon harvested prior to June 25.

<sup>d</sup> King salmon harvested after and including June 25.

<sup>e</sup> Angler totals may not equal sum of sites due to some anglers fishing at more than one site.

**Appendix A86.-Kenai Peninsula Area<sup>a</sup> standard errors<sup>b</sup> of sport fish saltwater harvest and effort by fisheries for finfish species<sup>c</sup>, 1998.**

	Days		KS <sup>d</sup>	KS <sup>e</sup>	SS	RS	PS	CS	DV								
	Trips	Fished							AC	SH	SM	HA	SK	RF	LC	PC	OTHE
<b>SALTWATER CHARTER BOAT:</b>																	
Barren Islands	524	691	18	0	35	0	0	0	0	5	0	964	13	133	74	160	53
Resurrection Bay (Seward)	677	1,160	48	61	1,441	155	121	31	52	0	24	1,018	28	979	148	142	88
Anchor River, Whiskey Gulch, Deep Creek, and Ninilchik River Areas	798	1,214	247	83	127	63	57	0	23	0	240	1,821	13	67	70	157	55
Other Cook Inlet North of Ninilchik River	70	106	16	0	15	0	0	0	0	0	0	136	0	0	34	0	0
Other Cook Inlet/Gulf Coast West of Gore Point	828	1,601	207	76	434	98	350	6	93	8	33	1,989	39	229	98	217	43
Other Gulf Coast East of Gore Point	116	201	0	0	215	0	0	0	0	0	0	241	0	197	58	93	36
<b>CHARTER BOAT TOTAL</b>	<b>1,756</b>	<b>2,930</b>	<b>337</b>	<b>127</b>	<b>1,503</b>	<b>192</b>	<b>378</b>	<b>32</b>	<b>110</b>	<b>9</b>	<b>243</b>	<b>3,727</b>	<b>53</b>	<b>1,035</b>	<b>216</b>	<b>366</b>	<b>134</b>
<b>SALTWATER PRIVATE BOAT:</b>																	
Barren Islands	99	237	0	0	0	0	0	0	0	0	0	230	0	7	0	0	17
Resurrection Bay (Seward)	1,372	2,082	107	122	3,753	187	237	8	574	0	5,347	678	35	1,095	121	174	83
Anchor River, Whiskey Gulch, Deep Creek, and Ninilchik River Areas	1,812	2,212	238	156	281	258	46	0	48	0	0	2,329	27	27	49	133	126
Other Cook Inlet North of Ninilchik River	113	115	16	0	0	50	0	0	40	0	0	108	0	0	0	29	0
Other Cook Inlet/Gulf Coast West of Gore Point	1,351	2,566	160	140	704	618	976	305	535	0	15	1,963	21	393	75	335	128
Other Gulf Coast East of Gore Point	414	483	0	0	607	0	71	0	0	0	0	332	0	334	246	15	0
<b>PRIVATE BOAT TOTAL</b>	<b>2,854</b>	<b>4,233</b>	<b>313</b>	<b>243</b>	<b>3,905</b>	<b>697</b>	<b>1,012</b>	<b>305</b>	<b>769</b>	<b>0</b>	<b>5,347</b>	<b>3,247</b>	<b>48</b>	<b>1,242</b>	<b>288</b>	<b>409</b>	<b>202</b>
<b>BOAT TOTAL</b>	<b>3,210</b>	<b>4,897</b>	<b>460</b>	<b>269</b>	<b>4,185</b>	<b>716</b>	<b>1,060</b>	<b>306</b>	<b>775</b>	<b>9</b>	<b>5,348</b>	<b>4,836</b>	<b>74</b>	<b>1,614</b>	<b>352</b>	<b>531</b>	<b>246</b>
<b>SALTWATER SHORELINE:</b>																	
Homer Spit (Kachemak Bay)	982	1,423	169	152	1,390	87	67	31	101	10	0	56	0	0	0	46	28
Resurrection Bay (Seward)	1,112	1,882	225	255	1,241	175	322	65	47	16	443	111	7	93	0	5	105
Anchor River, Whiskey Gulch, Deep Creek, and Ninilchik River Areas	321	383	31	61	150	34	0	0	58	0	0	248	0	0	0	0	0
Shoreline - Other	420	669	63	79	136	273	282	29	259	0	0	94	28	76	36	15	82
<b>SHORELINE TOTAL</b>	<b>1,619</b>	<b>2,529</b>	<b>289</b>	<b>325</b>	<b>1,894</b>	<b>345</b>	<b>428</b>	<b>78</b>	<b>288</b>	<b>19</b>	<b>443</b>	<b>300</b>	<b>29</b>	<b>118</b>	<b>36</b>	<b>49</b>	<b>141</b>
<b>GRAND TOTAL</b>	<b>3,715</b>	<b>5,697</b>	<b>553</b>	<b>424</b>	<b>4,727</b>	<b>811</b>	<b>1,160</b>	<b>321</b>	<b>842</b>	<b>21</b>	<b>5,359</b>	<b>4,858</b>	<b>79</b>	<b>1,612</b>	<b>355</b>	<b>531</b>	<b>285</b>

<sup>a</sup> Kenai Peninsula (Area P): All Alaskan saltwater around the Kenai Peninsula from Cape Puget around to, but excluding, Ingram Creek, including waters around Kalgin Island.

<sup>b</sup> Standard errors were calculated using the bootstrap method. Because the empirical distribution of derived confidence intervals for these estimates is not symmetrical, valid confidence intervals cannot be obtained directly.

<sup>c</sup> Refer to Appendix A3 for common names and species abbreviations.

<sup>d</sup> King salmon harvested prior to June 25.

<sup>e</sup> King salmon harvested after and including June 25.

**Appendix A87.-Kodiak Area<sup>a</sup> sport fish harvest and effort by fisheries and species<sup>b</sup>, 1998.**

	Anglers	Days					DV													
		Trips	Fished	KS	SS	LL	RS	PS	CS	AC	SH	RT	GR	SM	HA	SK	RF	LC	RCL	OTHE
<b>SALTWATER:</b>																				
Boat - Chiniak Bay Area	5,237	10,701	12,936	1,642	6,614	0	143	936	262	190	0	0	0	0	6,923	22	2,061	522	0	200
Boat - Afognak Island Area	2,312	3,143	4,984	312	3,115	0	714	350	0	128	38	0	0	0	2,945	0	1,225	296	0	13
Boat - Whale Passage	466	608	775	36	40	0	0	0	0	0	0	0	0	0	772	7	83	214	0	163
Boat - Uyak Bay	507	1,000	1,567	56	124	0	0	106	0	81	0	0	0	0	602	24	34	58	0	18
Boat - Shuyak Area	248	186	470	0	355	0	78	0	0	0	0	0	0	0	268	0	25	0	0	0
Boat - Other	2,466	3,642	5,169	378	4,381	0	186	447	8	242	0	0	0	0	3,292	10	848	208	0	359
Shoreline - Chiniak Bay Area	2,386	5,663	6,562	17	530	0	8	2,574	86	639	0	0	0	0	608	0	271	11	0	303
Shoreline - Afognak Island Area	278	292	537	0	183	0	227	0	0	27	0	0	0	0	65	0	0	0	0	0
Shoreline - Afognak Lagoon (Litnik)	505	395	600	0	981	0	660	26	0	543	0	0	0	0	193	0	0	13	0	37
Shoreline - Other	735	1,942	3,089	78	379	0	141	1,152	0	550	38	0	0	0	0	0	0	0	178	77
<b>SALTWATER TOTAL</b>	<b>11,669<sup>c</sup></b>	<b>27,572</b>	<b>36,689</b>	<b>2,519</b>	<b>16,702</b>	<b>0</b>	<b>2,157</b>	<b>5,591</b>	<b>356</b>	<b>2,400</b>	<b>76</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>15,668</b>	<b>63</b>	<b>4,547</b>	<b>1,322</b>	<b>178</b>	<b>1,170</b>
<b>FRESHWATER:</b>																				
Buskin River	5,307	12,136	14,332	30	2,669	0	1,983	3,201	55	1,762	0	0	0	0	0	0	0	0	0	0
Pasagshak River	1,547	2,118	3,066	0	939	0	614	0	25	127	0	0	0	0	0	0	0	0	0	0
Karluk River and Lagoon	1,386	1,220	4,223	1,173	240	0	792	63	0	385	59	16	0	0	0	0	0	0	0	0
American River	1,992	2,440	3,058	0	700	0	0	471	29	200	0	0	0	0	0	0	0	0	0	0
Olds River (or Creek)	2,224	3,200	4,539	0	951	0	0	654	23	604	0	0	0	0	0	0	0	0	0	0
Red River (Ayakulik)	597	309	1,314	259	275	0	314	0	0	187	0	0	0	0	0	0	0	0	0	0
Saltery Cove Streams	998	1,326	2,054	0	960	0	1,453	68	34	292	13	33	0	0	0	0	0	0	0	0
Other Remote Streams	1,271	1,779	3,419	71	774	0	1,074	170	0	852	8	34	0	0	0	0	0	0	0	0
Other Road System Streams	1,529	4,037	4,856	0	585	64	266	2,048	25	1,066	0	67	0	0	0	0	0	0	0	0
Roadside Lakes	264	363	509	0	30	0	0	0	0	131	66	211	0	0	0	0	0	0	0	0
Other Lakes	227	199	629	0	25	0	110	0	0	42	0	50	0	0	0	0	0	0	0	0
<b>FRESHWATER TOTAL</b>	<b>10,165<sup>c</sup></b>	<b>29,127</b>	<b>41,999</b>	<b>1,533</b>	<b>8,148</b>	<b>64</b>	<b>6,606</b>	<b>6,675</b>	<b>191</b>	<b>5,648</b>	<b>146</b>	<b>411</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>GRAND TOTAL</b>	<b>16,175<sup>c</sup></b>	<b>56,699</b>	<b>78,688</b>	<b>4,052</b>	<b>24,850</b>	<b>64</b>	<b>8,763</b>	<b>12,266</b>	<b>547</b>	<b>8,048</b>	<b>222</b>	<b>411</b>	<b>0</b>	<b>0</b>	<b>15,668</b>	<b>63</b>	<b>4,547</b>	<b>1,322</b>	<b>178</b>	<b>1,170</b>

<sup>a</sup> Kodiak (Area Q): All Alaskan waters, including drainages, of the Kodiak and Afognak Island groups including the Trinity Islands.

<sup>b</sup> Refer to Appendix A3 for common names and species abbreviations.

<sup>c</sup> Angler totals may not equal sum of sites due to some anglers fishing at more than one site.

**Appendix A88.-Kodiak Area<sup>a</sup> standard errors<sup>b</sup> of sport fish harvest and effort by fisheries and species<sup>c</sup>, 1998.**

	Days		DV																
	Trips	Fished	KS	SS	LL	RS	PS	CS	AC	SH	RT	GR	SM	HA	SK	RF	LC	RCL	OTHE
<b>SALTWATER:</b>																			
Boat - Chiniak Bay Area	1,189	1,448	289	825	0	76	278	182	97	0	0	0	0	782	16	420	124	0	83
Boat - Afognak Island Area	675	880	145	832	0	450	205	0	131	37	0	0	0	592	0	398	111	0	13
Boat - Whale Passage	216	259	27	43	0	0	0	0	0	0	0	0	0	255	7	61	116	0	141
Boat - Uyak Bay	474	619	40	84	0	0	102	0	78	0	0	0	0	194	18	25	40	0	18
Boat - Shuyak Area	67	163	0	173	0	78	0	0	0	0	0	0	0	114	0	26	0	0	0
Boat - Other	603	768	149	1,333	0	131	247	9	132	0	0	0	0	543	10	353	88	0	163
Shoreline - Chiniak Bay Area	1,309	1,381	17	157	0	8	742	84	227	0	0	0	0	421	0	167	11	0	189
Shoreline - Afognak Island Area	116	186	0	89	0	167	0	0	26	0	0	0	0	67	0	0	0	0	0
Shoreline - Afognak Lagoon (Litnik)	130	192	0	577	0	564	26	0	542	0	0	0	0	127	0	0	14	0	38
Shoreline - Other	1,295	1,413	64	250	0	112	946	0	221	38	0	0	0	0	0	0	131	55	
<b>SALTWATER TOTAL</b>	<b>2,440</b>	<b>2,840</b>	<b>362</b>	<b>1,873</b>	<b>0</b>	<b>771</b>	<b>1,251</b>	<b>201</b>	<b>661</b>	<b>53</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1,244</b>	<b>28</b>	<b>715</b>	<b>225</b>	<b>131</b>	<b>303</b>
<b>FRESHWATER:</b>																			
Buskin River	1,522	1,729	24	486	0	504	754	38	509	0	0	0	0	0	0	0	0	0	0
Pasagshak River	420	689	0	312	0	220	0	25	86	0	0	0	0	0	0	0	0	0	0
Karluk River and Lagoon	196	648	224	105	0	197	53	0	159	44	15	0	0	0	0	0	0	0	0
American River	463	531	0	275	0	0	187	29	82	0	0	0	0	0	0	0	0	0	0
Olds River (or Creek)	553	868	0	241	0	0	217	17	312	0	0	0	0	0	0	0	0	0	0
Red River (Ayakulik)	70	283	93	177	0	126	0	0	80	0	0	0	0	0	0	0	0	0	0
Saltery Cove Streams	340	479	0	331	0	470	50	27	126	13	22	0	0	0	0	0	0	0	0
Other Remote Streams	474	781	51	353	0	354	89	0	433	6	24	0	0	0	0	0	0	0	0
Other Road System Streams	1,011	1,131	0	221	66	236	744	25	512	0	53	0	0	0	0	0	0	0	0
Roadside Lakes	110	170	0	32	0	0	0	0	95	66	136	0	0	0	0	0	0	0	0
Other Lakes	60	192	0	15	0	80	0	0	25	0	38	0	0	0	0	0	0	0	0
<b>FRESHWATER TOTAL</b>	<b>2,113</b>	<b>2,689</b>	<b>242</b>	<b>911</b>	<b>66</b>	<b>881</b>	<b>1,128</b>	<b>66</b>	<b>952</b>	<b>81</b>	<b>154</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>GRAND TOTAL</b>	<b>3,335</b>	<b>4,062</b>	<b>438</b>	<b>2,095</b>	<b>66</b>	<b>1,141</b>	<b>1,663</b>	<b>213</b>	<b>1,134</b>	<b>93</b>	<b>154</b>	<b>0</b>	<b>0</b>	<b>1,244</b>	<b>28</b>	<b>715</b>	<b>225</b>	<b>131</b>	<b>303</b>

<sup>a</sup> Kodiak (Area Q): All Alaskan waters, including drainages, of the Kodiak and Afognak Island groups including the Trinity Islands.

<sup>b</sup> Standard errors were calculated using the bootstrap method. Because the empirical distribution of derived confidence intervals for these estimates is not symmetrical, valid confidence intervals cannot be obtained directly.

<sup>c</sup> Refer to Appendix A3 for common names and species abbreviations.

**Appendix A89.-Naknek River Drainage-Alaska Peninsula Area<sup>a</sup> sport fish harvest and effort by fisheries and species<sup>b</sup>, 1998.**

	Anglers	Days										DV									
		Trips	Fished	KS	SS	RS	KO	PS	CS	LT	AC	RT	GR	WF	NP	BB	SM	HA	RF	LC	OTHE
<b>SALTWATER:</b>																					
Boat - Unalaska Bay	935	2,928	3,290	0	111	0	0	15	0	0	68	0	0	0	0	0	2,092	297	0	26	
Boat - Other	812	1,163	2,286	213	1,113	1,012	0	103	17	0	300	0	0	0	0	0	1,084	101	39	0	
Shoreline	506	1,533	1,628	0	213	61	0	576	0	0	688	0	0	0	0	0	62	39	6	264	
<b>SALTWATER TOTAL</b>	<b>2,119 <sup>c</sup></b>	<b>5,624</b>	<b>7,204</b>	<b>213</b>	<b>1,437</b>	<b>1,073</b>	<b>0</b>	<b>694</b>	<b>17</b>	<b>0</b>	<b>1,056</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>3,238</b>	<b>437</b>	<b>45</b>	<b>290</b>	
<b>FRESHWATER:</b>																					
Cold Bay Area (including Russel Creek)	364	1,077	1,959	0	342	38	0	142	25	0	404	0	0	0	0	0	0	0	0	46	
Naknek River above Rapids Camp	1,567	3,891	5,077	441	825	595	0	179	9	12	135	255	38	0	32	8	3,523	0	0	18	
Naknek River below Rapids Camp	2,941	5,877	8,902	3,002	1,722	192	0	65	186	0	141	133	0	0	13	0	2,996	0	0	0	
Brooks River	1,746	1,144	2,916	0	305	490	0	0	0	0	0	0	10	0	0	0	0	0	0	0	
American Creek	472	460	811	0	0	0	0	0	0	12	76	0	17	0	0	0	0	0	0	0	
Unalaska Bay Streams	343	1,065	1,140	90	321	194	0	451	13	0	300	0	0	4	0	0	0	0	0	0	
Other Streams	937	1,034	2,926	417	449	96	0	27	0	0	53	55	151	0	0	0	0	0	0	0	
Ugashik System	648	927	1,442	45	223	1,077	0	0	0	31	105	0	0	0	0	0	0	0	0	0	
Becharof System	513	694	1,008	156	117	44	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Naknek Lake - Bay of Islands	304	317	463	0	5	228	0	0	0	28	59	52	0	0	177	0	0	0	0	0	
Naknek Lake - Other	149	306	414	0	63	36	0	0	0	40	8	42	17	12	13	0	0	0	0	0	
Other Lakes	298	290	486	0	99	0	0	128	0	42	83	0	0	0	0	0	0	0	0	0	
<b>FRESHWATER TOTAL</b>	<b>7,416 <sup>c</sup></b>	<b>17,082</b>	<b>27,544</b>	<b>4,151</b>	<b>4,471</b>	<b>2,990</b>	<b>0</b>	<b>992</b>	<b>233</b>	<b>165</b>	<b>1,364</b>	<b>537</b>	<b>233</b>	<b>16</b>	<b>235</b>	<b>8</b>	<b>6,519</b>	<b>0</b>	<b>0</b>	<b>64</b>	
<b>GRAND TOTAL</b>	<b>8,974 <sup>c</sup></b>	<b>22,706</b>	<b>34,748</b>	<b>4,364</b>	<b>5,908</b>	<b>4,063</b>	<b>0</b>	<b>1,686</b>	<b>250</b>	<b>165</b>	<b>2,420</b>	<b>537</b>	<b>233</b>	<b>16</b>	<b>235</b>	<b>8</b>	<b>6,519</b>	<b>3,238</b>	<b>437</b>	<b>45</b>	<b>354</b>

<sup>a</sup> Naknek River Drainage-Alaska Peninsula (Area R): All Alaskan waters, including drainages, between Cape Douglas and the community of Naknek; including the Naknek River drainage, and the Aleutian Island chain. Does not include Cape Douglas.

<sup>b</sup> Refer to Appendix A3 for common names and species abbreviations.

<sup>c</sup> Angler totals may not equal sum of sites due to some anglers fishing at more than one site.

**Appendix A90.-Naknek River Drainage-Alaska Peninsula Area<sup>a</sup> standard errors<sup>b</sup> of sport fish harvest and effort by fisheries and species<sup>c</sup>, 1998.**

	Days		DV																		
	Trips	Fished	KS	SS	RS	KO	PS	CS	LT	AC	RT	GR	WF	NP	BB	SM	HA	RF	LC	OTHE	
<b>SALTWATER:</b>																					
Boat - Unalaska Bay	948	1,024	0	70	0	0	16	0	0	66	0	0	0	0	0	0	566	186	0	27	
Boat - Other	250	646	131	698	793	0	71	17	0	157	0	0	0	0	0	0	276	50	28	0	
Shoreline	600	599	0	120	63	0	311	0	0	514	0	0	0	0	0	0	58	30	6	254	
<b>SALTWATER TOTAL</b>	<b>1,141</b>	<b>1,345</b>	<b>131</b>	<b>714</b>	<b>791</b>	<b>0</b>	<b>323</b>	<b>17</b>	<b>0</b>	<b>550</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>620</b>	<b>197</b>	<b>29</b>	<b>254</b>	
<b>FRESHWATER:</b>																					
Cold Bay Area (including Russel Creek)	635	738	0	158	37	0	99	18	0	176	0	0	0	0	0	0	0	0	0	46	
Naknek River above Rapids Camp	957	1,024	142	218	462	0	113	9	11	64	139	25	0	18	8	1,996	0	0	0	20	
Naknek River below Rapids Camp	928	1,243	467	501	75	0	56	83	0	63	60	0	0	14	0	3,065	0	0	0	0	
Brooks River	215	664	0	253	241	0	0	0	0	0	0	10	0	0	0	0	0	0	0	0	
American Creek	143	236	0	0	0	0	0	0	12	60	0	17	0	0	0	0	0	0	0	0	
Unalaska Bay Streams	420	419	88	142	133	0	240	13	0	213	0	0	4	0	0	0	0	0	0	0	
Other Streams	218	740	163	193	53	0	26	0	0	37	43	112	0	0	0	0	0	0	0	0	
Ugashik System	307	388	33	109	830	0	0	0	25	46	0	0	0	0	0	0	0	0	0	0	
Becharof System	204	286	153	61	29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Naknek Lake - Bay of Islands	178	203	0	4	226	0	0	0	19	51	52	0	0	88	0	0	0	0	0	0	
Naknek Lake - Other	188	212	0	45	29	0	0	0	35	8	34	17	12	13	0	0	0	0	0	0	
Other Lakes	135	173	0	102	0	0	127	0	43	59	0	0	0	0	0	0	0	0	0	0	
<b>FRESHWATER TOTAL</b>	<b>1,689</b>	<b>2,248</b>	<b>547</b>	<b>680</b>	<b>1,019</b>	<b>0</b>	<b>332</b>	<b>87</b>	<b>66</b>	<b>312</b>	<b>171</b>	<b>117</b>	<b>12</b>	<b>91</b>	<b>8</b>	<b>3,715</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>50</b>	
<b>GRAND TOTAL</b>	<b>2,167</b>	<b>2,738</b>	<b>570</b>	<b>1,001</b>	<b>1,274</b>	<b>0</b>	<b>466</b>	<b>89</b>	<b>66</b>	<b>631</b>	<b>171</b>	<b>117</b>	<b>12</b>	<b>91</b>	<b>8</b>	<b>3,715</b>	<b>620</b>	<b>197</b>	<b>29</b>	<b>260</b>	

<sup>a</sup> Naknek River Drainage-Alaska Peninsula (Area R): All Alaskan waters, including drainages, between Cape Douglas and the community of Naknek; including the Naknek River drainage, and the Aleutian Island chain. Does not include Cape Douglas.

<sup>b</sup> Standard errors were calculated using the bootstrap method. Because the empirical distribution of derived confidence intervals for these estimates is not symmetrical, valid confidence intervals cannot be obtained directly.

<sup>c</sup> Refer to Appendix A3 for common names and species abbreviations.

**Appendix A91.-Kvichak River Drainage Area<sup>a</sup> sport fish harvest and effort by fisheries and species<sup>b</sup>, 1998.**

	Anglers	Days			DV												
		Trips	Fished	KS	SS	RS	PS	CS	LT	AC	RT	GR	WF	NP	BB	SM	OTHE
Kvichak River	1,668	1,514	3,339	239	97	2,910	0	42	0	8	25	71	0	41	0	0	0
Newhalen River	1,555	2,557	3,506	0	77	6,838	279	0	41	107	377	506	0	25	0	0	0
Alagnak (Branch) River	2,355	2,860	7,715	1,531	100	2,519	227	1,104	0	14	35	228	0	0	0	0	0
Copper River (tributary of Lake Iliamna)	994	1,194	2,191	17	61	850	0	58	0	0	0	0	0	18	0	0	0
Lower Talarik Creek	339	340	544	0	0	237	0	0	0	0	0	0	0	0	0	0	0
Kulik River	655	673	1,150	30	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Streams	1,410	1,439	4,410	13	0	863	0	0	0	0	17	79	0	0	0	0	0
Lake Iliamna	710	716	1,310	224	61	1,059	0	0	18	0	35	10	0	0	0	0	0
Lake Clark	905	1,065	1,462	0	17	159	0	0	81	67	0	296	83	189	92	0	0
Other Lakes	751	1,688	2,415	0	0	203	0	0	79	263	313	536	450	38	120	0	0
<b>TOTAL</b>	<b>8,061<sup>c</sup></b>	<b>14,046</b>	<b>28,042</b>	<b>2,054</b>	<b>413</b>	<b>15,638</b>	<b>506</b>	<b>1,204</b>	<b>219</b>	<b>459</b>	<b>802</b>	<b>1,726</b>	<b>533</b>	<b>311</b>	<b>212</b>	<b>0</b>	<b>0</b>

<sup>a</sup> Kvichak River Drainage (Area S): All lakes and tributaries of the Kvichak River drainage, including Nonvianuk Lake, Kukaklek Lake, Kulik Lake, Lake Iliamna, and Lake Clark.

<sup>b</sup> Refer to Appendix A3 for common names and species abbreviations.

<sup>c</sup> Angler totals may not equal sum of sites due to some anglers fishing at more than one site.



**Appendix A92.-Kvichak River Drainage Area<sup>a</sup> standard errors<sup>b</sup> of sport fish harvest and effort by fisheries and species<sup>c</sup>, 1998.**

	Days		DV													
	Trips	Fished	KS	SS	RS	PS	CS	LT	AC	RT	GR	WF	NP	BB	SM	OTHE
Kvichak River	250	626	150	67	810	0	41	0	8	19	66	0	25	0	0	0
Newhalen River	997	1,036	0	55	1,522	229	0	22	84	325	487	0	25	0	0	0
Alagnak (Branch) River	440	941	279	81	564	144	650	0	14	37	190	0	0	0	0	0
Copper River (tributary of Lake Iliamna)	284	494	17	59	329	0	59	0	0	0	0	0	18	0	0	0
Lower Talarik Creek	95	161	0	0	175	0	0	0	0	0	0	0	0	0	0	0
Kulik River	181	405	29	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Streams	289	1,212	14	0	392	0	0	0	0	18	51	0	0	0	0	0
Lake Iliamna	256	485	223	61	499	0	0	17	0	26	11	0	0	0	0	0
Lake Clark	374	419	0	12	138	0	0	45	49	0	148	72	153	76	0	0
Other Lakes	1,196	1,246	0	0	122	0	0	54	215	282	518	450	33	120	0	0
<b>TOTAL</b>	<b>1,799</b>	<b>2,531</b>	<b>394</b>	<b>143</b>	<b>1,974</b>	<b>267</b>	<b>652</b>	<b>78</b>	<b>236</b>	<b>419</b>	<b>730</b>	<b>455</b>	<b>158</b>	<b>141</b>	<b>0</b>	<b>0</b>

<sup>a</sup> Kvichak River Drainage (Area S): All lakes and tributaries of the Kvichak River drainage, including Nonvianuk Lake, Kukaklek Lake, Kulik Lake, Lake Iliamna, and Lake Clark.

<sup>b</sup> Standard errors were calculated using the bootstrap method. Because the empirical distribution of derived confidence intervals for these estimates is not symmetrical, valid confidence intervals cannot be obtained directly.

<sup>c</sup> Refer to Appendix A3 for common names and species abbreviations.

### Appendix A93.-Nushagak Area<sup>a</sup> sport fish harvest and effort by fisheries and species<sup>b</sup>, 1998.

	Anglers	Days										DV						
		Trips	Fished	KS	SS	RS	KO	PS	CS	LT	AC	RT	GR	WF	NP	BB	SM	OTHE
SALTWATER:																		
Boat	113	151	274	60	15	0	0	0	0	0	0	0	0	0	0	0	0	
SALTWATER TOTAL	113 <sup>c</sup>	151	274	60	15	0	0	0	0	0	0	0	0	0	0	0	0	
FRESHWATER:																		
Nushagak River - Black Pt. to outlet of Iowithia R.	2,663	4,105	7,869	3,279	321	531	0	80	708	0	0	0	28	0	0	0	0	
Nushagak River - Iowithia R. to outlet of Mulchatna R.	1,100	1,150	2,279	839	103	33	0	0	134	0	64	99	85	0	7	0	0	
Nushagak River - upstream from mouth of Mulchatna R.	1,156	1,680	5,785	829	579	718	0	0	86	9	87	158	294	259	125	0	0	
Other Nushagak System	635	757	1,561	403	30	0	0	0	104	0	0	0	169	0	0	0	0	
Wood River Lakes System	2,004	3,438	6,010	87	242	1,893	0	0	15	24	678	114	59	4	54	0	0	
Tikchik-Nuyakuk Lake System	881	1,035	1,722	170	85	110	0	0	0	129	163	0	131	0	0	0	0	
Togiak River System	985	2,949	5,206	763	1,020	673	0	260	34	0	1,472	8	0	0	13	0	2,552	
Mulchatna River	702	1,021	3,145	265	67	258	0	0	87	0	59	163	158	0	52	0	0	
Other Streams	665	664	1,923	148	207	390	0	0	85	0	17	80	202	0	0	0	0	
Other Lakes	169	86	290	12	0	0	0	0	0	0	0	0	0	0	138	0	0	
FRESHWATER TOTAL	8,209 <sup>c</sup>	16,885	35,790	6,795	2,654	4,606	0	340	1,253	162	2,540	622	1,126	263	389	0	2,552	
GRAND TOTAL	8,270 <sup>c</sup>	17,036	36,064	6,855	2,669	4,606	0	340	1,253	162	2,540	622	1,126	263	389	0	2,552	

<sup>a</sup> Nushagak (Area T): All lakes and tributaries of the Nushagak River drainage, including the Mulchatna River drainage, the Wood River and Tikchik Lake systems, and waters westward to Cape Newenham.

<sup>b</sup> Refer to Appendix A3 for common names and species abbreviations.

<sup>c</sup> Angler totals may not equal sum of sites due to some anglers fishing at more than one site.

**Appendix A94.-Nushagak Area<sup>a</sup> standard errors<sup>b</sup> of sport fish harvest and effort by fisheries and species<sup>c</sup>, 1998.**

	Days		DV														
	Trips	Fished	KS	SS	RS	KO	PS	CS	LT	AC	RT	GR	WF	NP	BB	SM	OTHE
<b>SALTWATER:</b>																	
Boat	82	128	43	15	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>SALTWATER TOTAL</b>	<b>82</b>	<b>128</b>	<b>43</b>	<b>15</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>FRESHWATER:</b>																	
Nushagak River - Black Pt. to outlet of Iowithia R.	1,223	1,462	548	219	289	0	61	164	0	0	0	27	0	0	0	0	0
Nushagak River - Iowithia R. to outlet of Mulchatna R.	294	465	167	64	28	0	0	65	0	52	64	56	0	6	0	0	0
Nushagak River - upstream from mouth of Mulchatna R.	426	1,578	214	277	514	0	0	42	9	50	95	156	252	89	0	0	0
Other Nushagak System	235	441	120	24	0	0	0	71	0	0	0	151	0	0	0	0	0
Wood River Lakes System	448	771	42	85	522	0	0	14	17	167	56	31	4	27	0	0	0
Tikchik-Nuyakuk Lake System	240	348	90	53	71	0	0	0	91	92	0	70	0	0	0	0	0
Togiak River System	1,566	1,923	316	561	435	0	254	27	0	1,262	9	0	0	12	0	2,513	0
Mulchatna River	255	682	91	38	95	0	0	44	0	47	96	76	0	39	0	0	0
Other Streams	180	481	78	130	231	0	0	47	0	17	57	94	0	0	0	0	0
Other Lakes	34	133	12	0	0	0	0	0	0	0	0	0	0	87	0	0	0
<b>FRESHWATER TOTAL</b>	<b>2,158</b>	<b>3,405</b>	<b>724</b>	<b>694</b>	<b>954</b>	<b>0</b>	<b>259</b>	<b>210</b>	<b>93</b>	<b>1,287</b>	<b>178</b>	<b>272</b>	<b>253</b>	<b>135</b>	<b>0</b>	<b>2,513</b>	<b>0</b>
<b>GRAND TOTAL</b>	<b>2,160</b>	<b>3,405</b>	<b>727</b>	<b>694</b>	<b>954</b>	<b>0</b>	<b>259</b>	<b>210</b>	<b>93</b>	<b>1,287</b>	<b>178</b>	<b>272</b>	<b>253</b>	<b>135</b>	<b>0</b>	<b>2,513</b>	<b>0</b>

<sup>a</sup> Nushagak (Area T): All lakes and tributaries of the Nushagak River drainage, including the Mulchatna River drainage, the Wood River and Tikchik Lake systems, and waters westward to Cape Newenham.

<sup>b</sup> Standard errors were calculated using the bootstrap method. Because the empirical distribution of derived confidence intervals for these estimates is not symmetrical, valid confidence intervals cannot be obtained directly.

<sup>c</sup> Refer to Appendix A3 for common names and species abbreviations.

**Appendix A95.-Tanana River Drainages<sup>a</sup> sport fish harvest and effort by fisheries and species<sup>b</sup>, 1998.**

	Anglers	Days							DV										
		Trips	Fished	KS	SS	LL	CS	LT	AC	RT	GR <sup>c</sup>	GR <sup>d</sup>	WF	SF	NP <sup>e</sup>	NP <sup>f</sup>	BB	OTHE	
Upper Chena River	5,130	9,324	10,826	0	0	0	0	0	0	0	0	0	0	0	13	0	8	0	
Lower Chena River <sup>g</sup>	6,111	13,481	17,105	299	0	0	25	0	0	0	0	0	83	0	220	49	846	0	
Piledriver Slough	2,035	4,624	5,126	0	0	0	0	0	0	1,237	0	0	0	0	40	0	135	0	
Nenana River Drainage (excluding Brushkana Creek)	473	777	1,151	15	119	0	0	0	0	0	34	132	4	0	0	7	25	0	
Lower Chatanika River & tributaries (downstream of Elliot Hwy)	1,274	1,558	2,140	6	0	0	22	0	77	0	0	174	0	0	20	0	0	0	
Upper Chatanika River (upstream of Elliot Hwy)	2,159	2,414	3,433	0	0	0	0	0	0	0	0	708	0	0	27	0	0	0	
Salcha River	2,844	3,799	5,789	121	0	6	0	0	0	0	0	2,179	8	0	0	0	84	0	
Delta Clearwater River	1,548	2,509	3,415	0	479	0	0	0	0	0	0	0	0	0	0	0	4	0	
Shaw Creek	277	241	302	0	0	0	0	0	0	0	0	0	43	0	11	0	71	0	
Goodpaster River	290	346	774	0	0	0	0	0	0	0	206	462	0	0	0	0	109	0	
Brushkana Creek	692	519	798	0	0	0	0	0	0	0	243	209	0	0	0	0	0	0	
Lower Tanana River	205	243	478	0	0	0	0	0	0	0	49	49	0	0	68	11	0	0	
Middle Tanana River	1,312	2,341	2,956	0	0	0	17	0	27	0	16	45	20	0	38	7	1,327	0	
Upper Tanana River	317	750	878	6	0	0	0	0	51	0	0	34	0	0	13	0	465	0	
Delta River (below Tangle Lakes)	332	166	410	0	0	0	0	0	0	0	116	44	0	0	0	0	0	0	
Other Streams	2,479	3,307	5,098	0	6	0	0	0	8	0	447	840	40	10	172	75	84	0	
Birch Lake	4,772	5,345	7,887	0	0	2,550	0	0	869	8,209	192	135	0	0	0	0	0	0	
Quartz Lake	5,821	6,233	10,175	0	0	5,526	0	0	1,201	14,335	0	0	0	0	0	0	0	0	
Fielding Lake	629	533	1,602	0	0	0	0	19	0	0	176	675	0	0	0	0	0	0	
Minto Flats	1,008	877	1,414	0	0	0	0	0	0	0	8	0	0	10	589	142	0	0	
Tangle Lakes and Tangle River	3,408	2,565	4,689	0	0	0	0	290	0	0	1,561	1,484	313	0	0	0	0	78	
Chena Lake (Lake only)	2,637	3,658	4,745	0	0	1,709	0	0	1,060	4,883	34	42	0	0	0	0	0	26	
Harding Lake	2,369	2,704	3,410	0	0	0	0	44	331	0	0	0	0	0	94	45	0	0	
Dune Lake	349	297	522	0	0	518	0	0	0	378	0	23	0	0	0	0	0	0	
George Lake	623	483	829	0	0	0	0	0	0	136	10	0	0	344	74	8	0	0	
Koole Lake	263	231	334	0	0	0	0	0	0	613	0	0	0	0	0	0	0	0	
Steese Ponds	878	1,302	1,612	0	0	0	0	0	0	779	25	55	0	0	0	0	0	0	
Chena Hot Springs Road Ponds	2,104	2,602	3,419	0	0	0	0	0	0	603	200	35	255	0	13	0	0	0	
Coal Mine Road Lakes	445	259	514	0	0	0	0	0	204	104	73	21	0	0	0	0	0	0	
Other Lakes	4,349	7,847	10,194	0	0	1,311	0	171	168	7,151	297	518	87	4	684	114	125	0	
<b>TOTAL</b>	31,129 <sup>h</sup>	81,335	112,025	447	604	11,614	70	524	3,996	38,292	3,813	7,874	853	24	2,346	524	3,291	104	

<sup>a</sup> Tanana River Drainages (Area U): The entire Tanana River watershed, excluding all portions of the Yukon and Kuskokwim Rivers watersheds.

<sup>b</sup> Refer to Appendix A3 for common names and species abbreviations.

<sup>c</sup> Arctic grayling less than 12 inches.

<sup>d</sup> Arctic grayling 12 inches and over.

<sup>e</sup> Northern pike 30 inches and under.

<sup>f</sup> Northern pike over 30 inches

<sup>g</sup> Includes Badger Slough which is sometimes called Chena Slough.

<sup>h</sup> Angler totals may not equal sum of sites due to some anglers fishing at more than one site.

**Appendix A96.-Tanana River Drainages<sup>a</sup> standard errors<sup>b</sup> of sport fish harvest and effort by fisheries and species<sup>c</sup>, 1998.**

	Days		DV														
	Trips	Fished	KS	SS	LL	CS	LT	AC	RT	GR <sup>d</sup>	GR <sup>e</sup>	WF	SF	NP <sup>f</sup>	NP <sup>g</sup>	BB	OTHER
Upper Chena River	1,539	1,568	0	0	0	0	0	0	0	0	0	0	0	13	0	9	0
Lower Chena River <sup>h</sup>	1,636	2,139	82	0	0	19	0	0	0	0	0	48	0	94	28	326	0
Piledriver Slough	702	744	0	0	0	0	0	0	655	0	0	0	0	29	0	89	0
Nenana River Drainage (excluding Brushkana Creek)	300	388	15	116	0	0	0	0	0	34	94	4	0	0	6	19	0
Lower Chatanika River & tributaries (downstream of Elliot Hwy)	337	475	6	0	0	22	0	76	0	0	77	0	0	14	0	0	0
Upper Chatanika River (upstream of Elliot Hwy)	369	546	0	0	0	0	0	0	0	0	196	0	0	28	0	0	0
Salcha River	557	889	44	0	0	7	0	0	0	0	727	6	0	0	0	83	0
Delta Clearwater River	599	762	0	346	0	0	0	0	0	0	0	0	0	0	0	5	0
Shaw Creek	90	108	0	0	0	0	0	0	0	0	0	40	0	11	0	47	0
Goodpaster River	108	231	0	0	0	0	0	0	0	91	163	0	0	0	0	108	0
Brushkana Creek	126	169	0	0	0	0	0	0	0	129	105	0	0	0	0	0	0
Lower Tanana River	124	240	0	0	0	0	0	0	0	48	48	0	0	47	10	0	0
Middle Tanana River	483	556	0	0	0	17	0	27	0	15	31	19	0	23	7	347	0
Upper Tanana River	321	347	7	0	0	0	0	48	0	0	35	0	0	13	0	200	0
Delta River (below Tangle Lakes)	49	137	0	0	0	0	0	0	0	98	36	0	0	0	0	0	0
Other Streams	575	741	0	6	0	0	0	8	0	125	222	39	10	63	46	70	0
Birch Lake	638	916	0	0	668	0	0	197	1,319	119	91	0	0	0	0	0	0
Quartz Lake	839	1,562	0	0	1,143	0	0	354	2,008	0	0	0	0	0	0	0	0
Fielding Lake	163	645	0	0	0	0	14	0	0	80	346	0	0	0	0	0	0
Minto Flats	180	278	0	0	0	0	0	0	0	8	0	0	10	196	48	0	0
Tangle Lakes and Tangle River	387	597	0	0	0	0	119	0	0	372	305	309	0	0	0	0	59
Chena Lake (Lake only)	600	792	0	0	813	0	0	696	1,265	21	22	0	0	0	0	0	26
Harding Lake	843	901	0	0	0	0	25	182	0	0	0	0	0	50	31	0	0
Dune Lake	100	171	0	0	222	0	0	0	194	0	17	0	0	0	0	0	0
George Lake	117	218	0	0	0	0	0	0	0	128	10	0	0	129	32	8	0
Koole Lake	76	109	0	0	0	0	0	0	235	0	0	0	0	0	0	0	0
Steese Ponds	347	376	0	0	0	0	0	0	393	19	35	0	0	0	0	0	0
Chena Hot Springs Road Ponds	757	806	0	0	0	0	0	0	267	153	27	258	0	14	0	0	0
Coal Mine Road Lakes	73	168	0	0	0	0	0	204	106	58	20	0	0	0	0	0	0
Other Lakes	848	1,011	0	0	973	0	95	120	1,664	127	282	80	4	175	31	83	0
<b>TOTAL</b>	<b>3,633</b>	<b>4,648</b>	<b>96</b>	<b>371</b>	<b>1,817</b>	<b>34</b>	<b>157</b>	<b>879</b>	<b>3,256</b>	<b>530</b>	<b>983</b>	<b>426</b>	<b>14</b>	<b>333</b>	<b>91</b>	<b>549</b>	<b>64</b>

<sup>a</sup> Tanana River Drainages (Area U): The entire Tanana River watershed, excluding all portions of the Yukon and Kuskokwim Rivers watersheds.

<sup>b</sup> Standard errors were calculated using the bootstrap method. Because the empirical distribution of derived confidence intervals for these estimates is not symmetrical, valid confidence intervals cannot be obtained directly.

<sup>c</sup> Refer to Appendix A3 for common names and species abbreviations.

<sup>d</sup> Arctic grayling less than 12 inches.

<sup>e</sup> Arctic grayling 12 inches and over.

<sup>f</sup> Northern pike 30 inches and under.

<sup>g</sup> Northern pike over 30 inches

<sup>h</sup> Includes Badger Slough which is sometimes called Chena Slough.

**Appendix A97.-Kuskokwim-Goodnews Drainages<sup>a</sup> sport fish harvest and effort by fisheries and species<sup>b</sup>, 1998.**

	Anglers	Days		KS	SS	RS	PS	CS	LT	DV									
		Trips	Fished							AC	RT	GR	WF	SF	NP	BB	SM	HA	OTHER
<b>SALTWATER:</b>																			
Boat	198	517	634	31	25	152	0	42	0	0	0	0	0	0	0	0	225	315	0
Shoreline	27	321	335	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>SALTWATER TOTAL</b>	<b>216<sup>c</sup></b>	<b>838</b>	<b>969</b>	<b>31</b>	<b>25</b>	<b>152</b>	<b>0</b>	<b>42</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>225</b>	<b>315</b>	<b>0</b>
<b>FRESHWATER:</b>																			
Kuskokwim-Goodnews Drainages above Aniak River:																			
Holitna River	338	202	771	54	0	0	0	0	0	25	0	124	0	35	103	0	0	0	0
Other Streams	357	1,567	1,636	120	95	0	0	167	0	42	0	1,566	107	8	147	0	0	0	0
Other Lakes	102	87	150	0	0	0	0	0	0	0	0	168	0	0	28	0	0	0	0
<b>Total Kuskokwim-Goodnews Drainages above Aniak River</b>	<b>731<sup>c</sup></b>	<b>1,856</b>	<b>2,557</b>	<b>174</b>	<b>95</b>	<b>0</b>	<b>0</b>	<b>167</b>	<b>0</b>	<b>67</b>	<b>0</b>	<b>1,858</b>	<b>107</b>	<b>43</b>	<b>278</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
Kuskokwim-Goodnews Drainages below Aniak River:																			
Aniak River	1,049	3,958	5,548	1,058	1,128	178	40	101	9	394	349	715	306	30	553	0	0	0	0
Kanektok River	1,659	1,816	8,114	1,475	751	830	13	213	0	368	0	33	0	0	0	0	112	0	0
Goodnews River	961	946	4,007	431	574	419	22	50	40	460	97	28	0	0	0	0	0	0	0
Other Streams	991	2,219	3,864	111	1,221	48	13	23	8	208	69	156	11	0	170	0	0	0	0
Other Lakes	106	66	225	0	0	0	0	0	59	34	0	8	0	0	0	0	0	0	0
<b>Total Kuskokwim-Goodnews Drainages below Aniak River</b>	<b>4,610<sup>c</sup></b>	<b>9,005</b>	<b>21,758</b>	<b>3,075</b>	<b>3,674</b>	<b>1,475</b>	<b>88</b>	<b>387</b>	<b>116</b>	<b>1,464</b>	<b>515</b>	<b>940</b>	<b>317</b>	<b>30</b>	<b>723</b>	<b>0</b>	<b>112</b>	<b>0</b>	<b>0</b>
Other Streams	748	1,892	2,388	121	229	0	34	0	0	0	8	671	796	42	376	136	2,996	0	0
Other Lakes	160	104	241	0	0	0	0	0	15	50	0	0	0	4	53	0	0	0	0
<b>FRESHWATER TOTAL</b>	<b>5,619<sup>c</sup></b>	<b>12,857</b>	<b>26,944</b>	<b>3,370</b>	<b>3,998</b>	<b>1,475</b>	<b>122</b>	<b>554</b>	<b>131</b>	<b>1,581</b>	<b>523</b>	<b>3,469</b>	<b>1,220</b>	<b>119</b>	<b>1,430</b>	<b>136</b>	<b>3,108</b>	<b>0</b>	<b>0</b>
<b>GRAND TOTAL</b>	<b>5,721<sup>c</sup></b>	<b>13,695</b>	<b>27,913</b>	<b>3,401</b>	<b>4,023</b>	<b>1,627</b>	<b>122</b>	<b>596</b>	<b>131</b>	<b>1,581</b>	<b>523</b>	<b>3,469</b>	<b>1,220</b>	<b>119</b>	<b>1,430</b>	<b>136</b>	<b>3,333</b>	<b>315</b>	<b>0</b>

<sup>a</sup> Kuskokwim-Goodnews Drainages (Area V): The Kuskokwim River drainage and all waters flowing into Kuskokwim Bay; adjacent saltwater from Cape Newenham north to the Naskonat Peninsula (north of Nelson Island). Does not include the Yukon, Tanana or Koyukuk River drainages.

<sup>b</sup> Refer to Appendix A3 for common names and species abbreviations.

<sup>c</sup> Angler totals may not equal sum of sites due to some anglers fishing at more than one site.

**Appendix A98.-Kuskokwim-Goodnews Drainages<sup>a</sup> standard errors<sup>b</sup> of sport fish harvest by fisheries and species<sup>c</sup>, 1998.**

	Days		DV																
	Trips	Fished	KS	SS	RS	PS	CS	LT	AC	RT	GR	WF	SF	NP	BB	SM	HA	OTHE	
<b>SALTWATER:</b>																			
Boat	341	360	23	25	152	0	42	0	0	0	0	0	0	0	0	224	144	0	
Shoreline	322	324	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<b>SALTWATER TOTAL</b>	<b>476</b>	<b>491</b>	<b>23</b>	<b>25</b>	<b>152</b>	<b>0</b>	<b>42</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>224</b>	<b>144</b>	<b>0</b>	
<b>FRESHWATER:</b>																			
Kuskokwim-Goodnews Drainages above Aniak River:																			
Holitna River	65	276	40	0	0	0	0	0	25	0	100	0	23	74	0	0	0	0	
Other Streams	670	661	76	97	0	0	127	0	40	0	1,303	82	9	111	0	0	0	0	
Other Lakes	50	89	0	0	0	0	0	0	0	0	164	0	0	20	0	0	0	0	
<b>Total Kuskokwim-Goodnews Drainages above Aniak River</b>	<b>675</b>	<b>731</b>	<b>86</b>	<b>97</b>	<b>0</b>	<b>0</b>	<b>127</b>	<b>0</b>	<b>47</b>	<b>0</b>	<b>1,315</b>	<b>82</b>	<b>24</b>	<b>132</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	
Kuskokwim-Goodnews Drainages below Aniak River:																			
Aniak River	2,750	2,710	468	690	110	38	60	8	131	346	391	303	29	497	0	0	0	0	
Kanektok River	429	1,606	416	276	408	14	102	0	146	0	25	0	0	0	0	108	0	0	
Goodnews River	298	827	131	182	183	22	32	40	187	72	20	0	0	0	0	0	0	0	
Other Streams	804	897	62	403	35	14	17	8	85	48	66	11	0	114	0	0	0	0	
Other Lakes	30	156	0	0	0	0	0	45	32	0	9	0	0	0	0	0	0	0	
<b>Total Kuskokwim-Goodnews Drainages below Aniak River</b>	<b>2,930</b>	<b>3,533</b>	<b>668</b>	<b>886</b>	<b>476</b>	<b>50</b>	<b>125</b>	<b>61</b>	<b>292</b>	<b>354</b>	<b>398</b>	<b>304</b>	<b>29</b>	<b>513</b>	<b>0</b>	<b>108</b>	<b>0</b>	<b>0</b>	
Other Streams	957	978	67	167	0	33	0	0	0	9	492	754	31	240	98	2,043	0	0	
Other Lakes	51	113	0	0	0	0	0	15	51	0	0	0	4	55	0	0	0	0	
<b>FRESHWATER TOTAL</b>	<b>3,135</b>	<b>3,800</b>	<b>680</b>	<b>915</b>	<b>476</b>	<b>60</b>	<b>178</b>	<b>63</b>	<b>301</b>	<b>354</b>	<b>1,485</b>	<b>813</b>	<b>48</b>	<b>588</b>	<b>98</b>	<b>2,039</b>	<b>0</b>	<b>0</b>	
<b>GRAND TOTAL</b>	<b>3,163</b>	<b>3,827</b>	<b>679</b>	<b>916</b>	<b>500</b>	<b>60</b>	<b>180</b>	<b>63</b>	<b>301</b>	<b>354</b>	<b>1,485</b>	<b>813</b>	<b>48</b>	<b>588</b>	<b>98</b>	<b>2,062</b>	<b>144</b>	<b>0</b>	

<sup>a</sup> Kuskokwim-Goodnews Drainages (Area V): The Kuskokwim River drainage and all waters flowing into Kuskokwim Bay; adjacent saltwater from Cape Newenham north to the Naskonat Peninsula (north of Nelson Island). Does not include the Yukon, Tanana or Koyukuk River drainages.

<sup>b</sup> Standard errors were calculated using the bootstrap method. Because the empirical distribution of derived confidence intervals for these estimates is not symmetrical, valid confidence intervals cannot be obtained directly.

<sup>c</sup> Refer to Appendix A3 for common names and species abbreviations.

**Appendix A99.-Seward Peninsula-Norton Sound Drainages<sup>a</sup> sport fish harvest and effort by fisheries and species<sup>b</sup>, 1998.**

	Anglers	Days						DV											
		Trips	Fished	KS	SS	RS	PS	CS	AC	GR <sup>c</sup>	GR <sup>d</sup>	WF	SF	NP	BB	SM	KC	HA	OTHE
<b>SALTWATER:</b>																			
Boat	626	766	1,812	0	561	0	1,947	0	0	0	0	0	0	0	0	0	169	723	529
Shoreline	287	275	396	45	187	0	54	44	0	0	0	0	0	0	0	0	0	0	110
<b>SALTWATER TOTAL</b>	<b>841<sup>e</sup></b>	<b>1,041</b>	<b>2,208</b>	<b>45</b>	<b>748</b>	<b>0</b>	<b>2,001</b>	<b>44</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>169</b>	<b>723</b>	<b>639</b>
<b>FRESHWATER:</b>																			
Nome River	636	1,165	1,371	0	189	0	1,985	0	302	0	0	0	0	0	0	0	0	0	0
Pilgrim River	392	253	546	32	6	0	0	0	14	0	0	0	0	26	0	0	0	0	0
Unalakleet River	679	3,019	3,558	478	2,613	0	434	432	521	94	25	0	0	0	0	0	0	0	0
Fish-Niukluk River System	181	358	946	0	303	0	0	0	160	16	0	0	0	0	84	0	0	0	56
Cripple Creek	513	561	2,303	0	366	0	1,141	0	272	0	0	0	0	0	0	0	0	0	0
Other Streams	903	1,729	2,638	35	216	16	1,378	206	971	147	16	0	0	49	0	0	0	0	229
Lakes	21	45	46	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>FRESHWATER TOTAL</b>	<b>2,399<sup>e</sup></b>	<b>7,130</b>	<b>11,408</b>	<b>545</b>	<b>3,693</b>	<b>16</b>	<b>4,938</b>	<b>638</b>	<b>2,240</b>	<b>257</b>	<b>41</b>	<b>0</b>	<b>0</b>	<b>75</b>	<b>84</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>285</b>
<b>GRAND TOTAL</b>	<b>3,206<sup>e</sup></b>	<b>8,171</b>	<b>13,616</b>	<b>590</b>	<b>4,441</b>	<b>16</b>	<b>6,939</b>	<b>682</b>	<b>2,240</b>	<b>257</b>	<b>41</b>	<b>0</b>	<b>0</b>	<b>75</b>	<b>84</b>	<b>0</b>	<b>169</b>	<b>723</b>	<b>924</b>

<sup>a</sup> Seward Peninsula-Norton Sound Drainages (Area W): All drainage area north of the Yukon River drainage, including all saltwater north and west of Pastol Bay in Norton Sound; and, south of the Selawik River drainage. Does not include the Selawik River.

<sup>b</sup> Refer to Appendix A3 for common names and species abbreviations.

<sup>c</sup> Arctic grayling 15 inches and under.

<sup>d</sup> Arctic grayling over 15 inches.

<sup>e</sup> Angler totals may not equal sum of sites due to some anglers fishing at more than one site.



**Appendix A100.-Seward Peninsula-Norton Sound Drainages<sup>a</sup> standard errors<sup>b</sup> of sport fish harvest and effort by fisheries and species<sup>c</sup>, 1998.**

	Days		DV															
	Trips	Fished	KS	SS	RS	PS	CS	AC	GR <sup>d</sup>	GR <sup>e</sup>	WF	SF	NP	BB	SM	KC	HA	OTHE
<b>SALTWATER:</b>																		
Boat	276	704	0	258	0	1,953	0	0	0	0	0	0	0	0	0	121	298	453
Shoreline	107	134	45	92	0	42	43	0	0	0	0	0	0	0	0	0	0	108
<b>SALTWATER TOTAL</b>	<b>303</b>	<b>728</b>	<b>45</b>	<b>287</b>	<b>0</b>	<b>1,953</b>	<b>43</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>121</b>	<b>298</b>	<b>473</b>
<b>FRESHWATER:</b>																		
Nome River	331	363	0	152	0	778	0	180	0	0	0	0	0	0	0	0	0	0
Pilgrim River	89	188	23	6	0	0	0	13	0	0	0	0	26	0	0	0	0	0
Unalakleet River	1,689	1,723	195	1,529	0	310	300	208	56	18	0	0	0	0	0	0	0	0
Fish-Niukluk River System	191	521	0	231	0	0	0	107	16	0	0	0	0	84	0	0	0	52
Cripple Creek	170	728	0	242	0	380	0	204	0	0	0	0	0	0	0	0	0	0
Other Streams	385	592	35	119	17	729	167	481	64	11	0	0	39	0	0	0	0	225
Lakes	46	47	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>FRESHWATER TOTAL</b>	<b>1,820</b>	<b>2,200</b>	<b>201</b>	<b>1,591</b>	<b>17</b>	<b>1,227</b>	<b>348</b>	<b>613</b>	<b>88</b>	<b>21</b>	<b>0</b>	<b>0</b>	<b>47</b>	<b>84</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>233</b>
<b>GRAND TOTAL</b>	<b>1,849</b>	<b>2,315</b>	<b>204</b>	<b>1,612</b>	<b>17</b>	<b>2,299</b>	<b>350</b>	<b>613</b>	<b>88</b>	<b>21</b>	<b>0</b>	<b>0</b>	<b>47</b>	<b>84</b>	<b>0</b>	<b>121</b>	<b>298</b>	<b>531</b>

<sup>a</sup> Seward Peninsula-Norton Sound Drainages (Area W): All drainage area north of the Yukon River drainage, including all saltwater north and west of Pastol Bay in Norton Sound; and, south of the Selawik River drainage. Does not include the Selawik River.

<sup>b</sup> Standard errors were calculated using the bootstrap method. Because the empirical distribution of derived confidence intervals for these estimates is not symmetrical, valid confidence intervals cannot be obtained directly.

<sup>c</sup> Refer to Appendix A3 for common names and species abbreviations.

<sup>d</sup> Arctic grayling 15 inches and under.

<sup>e</sup> Arctic grayling over 15 inches.

### Appendix A101.-Northwest Alaska Drainages<sup>a</sup> sport fish harvest and effort by fisheries and species<sup>b</sup>, 1998.

	Anglers	Trips	Days							DV <sup>c</sup>		DV <sup>d</sup>						
			Fished	KS	SS	RS	PS	CS	LT	AC	AC	GR	WF	SF	NP	BB	SM	OTHER
SALTWATER:																		
Boat	28	24	28	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Shoreline	46	39	136	0	0	0	0	0	0	0	0	0	0	121	0	0	0	0
SALTWATER TOTAL	74 <sup>e</sup>	63	164	0	0	0	0	0	0	0	0	0	0	121	0	0	0	0
FRESHWATER:																		
Kobuk River	542	779	1,773	0	0	0	13	17	0	16	33	1,067	92	145	127	150	0	75
Noatak River	179	168	610	0	0	0	0	160	0	143	16	42	8	0	27	0	0	0
Other Streams	326	503	891	0	0	0	0	0	0	120	112	662	0	148	32	0	0	0
Lakes	139	164	363	0	0	0	0	0	31	0	0	17	0	0	9	0	0	77
FRESHWATER TOTAL	1,052 <sup>e</sup>	1,614	3,637	0	0	0	13	177	31	279	161	1,788	100	293	195	150	0	152
GRAND TOTAL	1,089 <sup>e</sup>	1,677	3,801	0	0	0	13	177	31	279	161	1,788	100	414	195	150	0	152

<sup>a</sup> Northwest Alaska Drainages (Area X): Kotzebue area including drainages of Selawik, Kobuk, Noatak, Wulik, and Kivalina Rivers. All saltwater in the northern half of Kotzebue Sound to and including Point Hope.

<sup>b</sup> Refer to Appendix A3 for common names and species abbreviations.

<sup>c</sup> Dolly Varden and Arctic char 20 inches and under.

<sup>d</sup> Dolly Varden and Arctic char over 20 inches.

<sup>e</sup> Angler totals may not equal sum of sites due to some anglers fishing at more than one site.

**Appendix A102.-Northwest Alaska Drainages<sup>a</sup> standard errors<sup>b</sup> of sport fish harvest and effort by fisheries and species<sup>c</sup>, 1998.**

	Days		KS	SS	RS	PS	CS	LT	DV <sup>d</sup>		DV <sup>e</sup>													
	Trips	Fished							AC	AC	GR	WF	SF	NP	BB	SM	OTHER							
SALTWATER:																								
Boat	18	21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
Shoreline	33	130	0	0	0	0	0	0	0	0	0	0	0	123	0	0	0	0	0	0				
SALTWATER TOTAL	38	132	0	0	0	0	0	0	0	0	0	0	0	123	0	0	0	0	0	0				
FRESHWATER:																								
Kobuk River	227	478	0	0	0	12	17	0	12	26	531	59	67	71	106	0	0	0	0	37				
Noatak River	60	220	0	0	0	0	127	0	67	12	30	8	0	29	0	0	0	0	0	0				
Other Streams	191	292	0	0	0	0	0	0	70	59	641	0	146	31	0	0	0	0	0	0				
Lakes	88	196	0	0	0	0	0	18	0	0	17	0	0	9	0	0	0	0	0	76				
FRESHWATER TOTAL	315	650	0	0	0	12	129	18	100	66	818	59	159	83	106	0	0	0	0	85				
GRAND TOTAL	319	670	0	0	0	12	129	18	100	66	818	59	204	83	106	0	0	0	0	85				

<sup>a</sup> Northwest Alaska Drainages (Area X): Kotzebue area including drainages of Selawik, Kobuk, Noatak, Wulik, and Kivalina Rivers. All saltwater in the northern half of Kotzebue Sound to and including Point Hope.

<sup>b</sup> Standard errors were calculated using the bootstrap method. Because the empirical distribution of derived confidence intervals for these estimates is not symmetrical, valid confidence intervals cannot be obtained directly.

<sup>c</sup> Refer to Appendix A3 for common names and species abbreviations.

<sup>d</sup> Dolly Varden and Arctic char 20 inches and under.

<sup>e</sup> Dolly Varden and Arctic char over 20 inches.

**Appendix A103.-Yukon River Drainages<sup>a</sup> sport fish harvest and effort by fisheries and species<sup>b</sup>, 1998.**

	Anglers	Trips	Days							DV									
			Fished	KS	SS	RS	PS	CS	LT	AC	GR	WF	SF	NP	BB	SM	HA	OTHE	
Yukon River drainages (downstream from Koyukuk River):																			
Innoko River	201	318	847	0	61	64	0	58	0	14	0	0	0	93	0	0	0	0	
Other Lakes and Streams	809	1,618	2,701	207	93	0	85	293	0	124	837	26	0	340	0	0	0	0	
Total Yukon River drainages (downstream from Koyukuk River)	992 <sup>c</sup>	1,936	3,548	207	154	64	85	351	0	138	837	26	0	433	0	0	0	0	
Yukon River drainages (Koyukuk River to Fort Yukon):																			
Koyukuk River Drainage (excluding Haul Road drainages or unspecified)	854	847	1,424	0	0	0	0	0	27	0	800	0	10	105	0	0	0	0	
Haul Road Lakes and Streams in Koyukuk Drainage	251	410	602	0	0	0	0	0	0	67	230	0	0	0	0	0	0	0	
Other Haul Road Lakes and Streams	9	7	15	0	0	0	0	0	0	0	0	4	0	0	16	0	0	0	
Nowitna River	257	236	645	0	0	0	0	0	0	0	177	0	9	218	0	0	0	0	
Dall River	186	137	360	0	0	0	0	0	0	0	0	0	45	182	42	0	0	0	
Beaver and Nome Creeks	326	319	446	0	0	0	0	0	0	0	371	0	0	0	0	0	0	0	
Other Lakes and Streams	651	659	1,743	0	0	0	0	0	0	0	820	59	165	454	75	0	0	0	
Total Yukon River drainages (Koyukuk River to Fort Yukon)	2,388 <sup>c</sup>	2,615	5,235	0	0	0	0	0	27	67	2,398	63	229	959	133	0	0	0	
Yukon River Drainages (Fort Yukon to Canadian Border)																			
	584	515	1,227	0	0	0	0	0	0	0	677	32	9	39	0	0	0	0	
Other Streams																			
	117	48	117	0	0	0	0	0	0	0	0	0	20	21	0	0	0	0	
<b>TOTAL</b>	<b>3,841<sup>c</sup></b>	<b>5,114</b>	<b>10,127</b>	<b>207</b>	<b>154</b>	<b>64</b>	<b>85</b>	<b>351</b>	<b>27</b>	<b>205</b>	<b>3,912</b>	<b>121</b>	<b>258</b>	<b>1,452</b>	<b>133</b>	<b>0</b>	<b>0</b>	<b>0</b>	

<sup>a</sup> Yukon River Drainages (Area Y): All Yukon River drainages (including the Alaska portion of the White River drainage but excluding the Tanana River drainage), from the south side of the Brooks Range to the Bering Sea; and from the Canadian border to the Bering Sea; and all drainages of the Koyukuk River and Alatna Rivers.

<sup>b</sup> Refer to Appendix A3 for common names and species abbreviations.

<sup>c</sup> Angler totals may not equal sum of sites due to some anglers fishing at more than one site.

**Appendix A104.-Yukon River Drainages<sup>a</sup> standard errors<sup>b</sup> of sport fish harvest and effort by fisheries and species<sup>c</sup>, 1998.**

	Days		DV														
	Trips	Fished	KS	SS	RS	PS	CS	LT	AC	GR	WF	SF	NP	BB	SM	HA	OTHE
Yukon River Drainages (downstream from Koyukuk River):																	
Innoko River	161	479	0	62	65	0	59	0	14	0	0	0	55	0	0	0	0
Other Lakes and Streams	801	1,113	119	69	0	50	177	0	91	515	25	0	146	0	0	0	0
Total Yukon River Drainages (downstream from Koyukuk River)	823	1,237	119	92	65	50	185	0	92	515	25	0	159	0	0	0	0
Yukon River Drainages (Koyukuk River to Fort Yukon):																	
Koyukuk River Drainage (excluding Haul Road drainages or unspecified)	178	296	0	0	0	0	0	18	0	237	0	10	61	0	0	0	0
Haul Road Lakes and Streams in Koyukuk Drainage	214	243	0	0	0	0	0	0	71	110	0	0	0	0	0	0	0
Other Haul Road Lakes and Streams	7	15	0	0	0	0	0	0	0	0	4	0	0	15	0	0	0
Nowitna River	107	236	0	0	0	0	0	0	0	185	0	6	106	0	0	0	0
Dall River	46	114	0	0	0	0	0	0	0	0	0	45	80	42	0	0	0
Beaver and Nome Creeks	130	157	0	0	0	0	0	0	0	270	0	0	0	0	0	0	0
Other Lakes and Streams	141	432	0	0	0	0	0	0	0	253	54	110	181	45	0	0	0
Total Yukon River Drainages (Koyukuk River to Fort Yukon)	397	785	0	0	0	0	0	18	71	508	54	119	233	65	0	0	0
Yukon River Drainages (Fort Yukon to Canadian Border)																	
	156	338	0	0	0	0	0	0	0	378	30	9	28	0	0	0	0
Other Streams	29	74	0	0	0	0	0	0	0	0	0	19	21	0	0	0	0
<b>TOTAL</b>	<b>985</b>	<b>1,646</b>	<b>119</b>	<b>92</b>	<b>65</b>	<b>50</b>	<b>185</b>	<b>18</b>	<b>114</b>	<b>848</b>	<b>66</b>	<b>123</b>	<b>316</b>	<b>65</b>	<b>0</b>	<b>0</b>	<b>0</b>

<sup>a</sup> Yukon River Drainages (Area Y): All Yukon River drainages (including the Alaska portion of the White River drainage but excluding the Tanana River drainage), from the south side of the Brooks Range to the Bering Sea; and from the Canadian border to the Bering Sea; and all drainages of the Koyukuk River and Alatna Rivers.

<sup>b</sup> Standard errors were calculated using the bootstrap method. Because the empirical distribution of derived confidence intervals for these estimates is not symmetrical, valid confidence intervals cannot be obtained directly.

<sup>c</sup> Refer to Appendix A3 for common names and species abbreviations.

**Appendix A105.-North Slope Brooks Range Drainages<sup>a</sup> sport fish harvest and effort by fisheries and species<sup>b</sup>, 1998.**

	Anglers	Trips	Days					DV						
			Fished	KS	PS	CS	LT	AC	GR	WF	NP	BB	SM	OTHE
<b>SALTWATER:</b>														
Boat	89	54	97	0	13	0	0	17	0	0	0	0	0	0
Shoreline	66	304	311	0	0	0	0	0	0	0	0	0	0	0
<b>SALTWATER TOTAL</b>	155 <sup>c</sup>	358	408	0	13	0	0	17	0	0	0	0	0	0
<b>FRESHWATER:</b>														
Sagavanirktok River	374	620	840	0	0	0	0	812	370	0	0	0	0	0
Other Haul Road Streams	322	359	838	0	0	0	0	232	234	0	0	0	0	0
Other Streams	351	242	695	0	0	0	0	282	427	0	0	0	0	0
Other Lakes	317	489	872	0	0	0	221	111	151	0	0	25	0	0
<b>FRESHWATER TOTAL</b>	1,173 <sup>c</sup>	1,710	3,245	0	0	0	221	1,437	1,182	0	0	25	0	0
<b>GRAND TOTAL</b>	1,300 <sup>c</sup>	2,068	3,653	0	13	0	221	1,454	1,182	0	0	25	0	0

<sup>a</sup> North Slope Brooks Range Drainages (Area Z): All Alaskan waters, including drainages, north of the Brooks Range and flowing into the Beaufort and Chukchi Seas to the north and east of Point Hope. Does not include Point Hope.

<sup>b</sup> Refer to Appendix A3 for common names and species abbreviations.

<sup>c</sup> Angler totals may not equal sum of sites due to some anglers fishing at more than one site.

**Appendix A106.-North Slope Brooks Range Drainages<sup>a</sup> standard errors<sup>b</sup>  
of sport fish harvest and effort by fisheries and species<sup>c</sup>, 1998.**

	Days		DV										
	Trips	Fished	KS	PS	CS	LT	AC	GR	WF	NP	BB	SM	OTHE
SALTWATER:													
Boat	32	60	0	13	0	0	16	0	0	0	0	0	0
Shoreline	204	204	0	0	0	0	0	0	0	0	0	0	0
SALTWATER TOTAL	209	215	0	13	0	0	16	0	0	0	0	0	0
FRESHWATER:													
Sagavanirktok River	230	324	0	0	0	0	764	369	0	0	0	0	0
Other Haul Road Streams	147	298	0	0	0	0	171	134	0	0	0	0	0
Other Streams	96	287	0	0	0	0	175	213	0	0	0	0	0
Other Lakes	204	292	0	0	0	119	58	83	0	0	25	0	0
FRESHWATER TOTAL	426	737	0	0	0	119	851	484	0	0	25	0	0
GRAND TOTAL	502	808	0	13	0	119	851	484	0	0	25	0	0

<sup>a</sup> North Slope Brooks Range Drainages (Area Z): All Alaskan waters, including drainages, north of the Brooks Range and flowing into the Beaufort and Chukchi Seas to the north and east of Point Hope. Does not include Point Hope.

<sup>b</sup> Standard errors were calculated using the bootstrap method. Because the empirical distribution of derived confidence intervals for these estimates is not symmetrical, valid confidence intervals cannot be obtained directly.

<sup>c</sup> Refer to Appendix A3 for common names and species abbreviations.

**Appendix A107.-Comparison of 1998 Alaska statewide survey and onsite survey estimates and confidence intervals (CI).**

Fishery	Onsite Survey				Statewide Survey			
	Harvest Estimate	SE	95% CI		Harvest Estimate	SE	95% CI	
<b>Ketchikan Marine Boat<sup>a,b</sup></b>								
Chinook salmon over 28"	2,052	182	1,695 -	2,409	3,302	384	2,614 -	4,140
Chinook salmon under 28"	20	10	0 -	40	0	0	0 -	0
Coho salmon	24,059	2,778	18,614 -	29,504	30,580	4,059	23,408 -	39,360
Sockeye salmon	20	11	0 -	42	1,789	460	955 -	2,711
Pink salmon	32,740	8,198	16,672 -	48,808	16,580	1,729	13,416 -	20,169
Chum salmon	7,130	1,419	4,349 -	9,911	11,863	1,239	9,474 -	14,479
Halibut	6,778	780	5,249 -	8,307	11,944	1,048	10,060 -	14,193
Lingcod	452	91	274 -	630	1,468	247	1,048 -	2,006
Rockfish	3,864	352	3,174 -	4,554	6,096	737	4,851 -	7,677
<b>Sitka Marine Boat<sup>a</sup></b>								
Chinook salmon over 28"	20,848	1,407	18,090 -	23,606	21,817	1,133	19,524 -	24,054
Chinook salmon under 28"	66	41	0 -	146	213	108	57 -	462
Coho salmon	42,524	3,972	34,739 -	50,309	41,788	3,196	36,023 -	48,259
Sockeye salmon	541	175	198 -	884	2,451	762	1,159 -	3,991
Pink salmon	5,407	816	3,808 -	7,006	4,835	710	3,525 -	6,220
Chum salmon	1,087	147	799 -	1,375	2,959	570	1,887 -	4,161
Halibut	19,640	1,713	16,283 -	22,997	23,859	1,410	21,123 -	26,737
Lingcod	3,777	395	3,003 -	4,551	5,843	471	4,952 -	6,766
Rockfish	11,151	945	9,299 -	13,003	12,710	1,089	10,571 -	14,815
<b>Juneau Marine Boat<sup>a</sup></b>								
Chinook salmon over 28"	3,847	291	3,277 -	4,417	5,539	592	4,472 -	6,687
Chinook salmon under 28"	281	70	144 -	418	747	220	376 -	1,207
Coho salmon	15,730	1,905	11,996 -	19,464	17,500	1,681	14,258 -	20,707
Sockeye salmon	42	20	3 -	81	1,034	498	301 -	2,145
Pink salmon	3,114	464	2,205 -	4,023	4,180	893	2,579 -	6,220
Chum salmon	480	60	362 -	598	1,478	311	956 -	2,126
Halibut	8,200	802	6,628 -	9,772	8,872	1,191	6,787 -	11,522
Lingcod	45	27	0 -	98	111	40	43 -	193
Rockfish	659	106	451 -	867	2,866	635	1,780 -	4,220

-continued-



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Fishery	Onsite Survey			Statewide Survey		
	Harvest Estimate	SE	95% CI	Harvest Estimate	SE	95% CI
<b>Situk River<sup>c</sup></b>						
Chinook salmon 16" and over	808	167	841 - 1,134	1,156	246	701 - 1,669
Chinook salmon under 16"	546	105	336 - 750	660	192	324 - 1,062
<b>Gastineau Hatchery Roadside<sup>d</sup></b>						
Chinook Salmon	557	66	428 - 686	315	100	138 - 539
Coho Salmon	12,909	959	11,029 - 14,789	3,207	1,167	1,381 - 5,948
Chum Salmon	2,376	280	1,827 - 2,925	1,370	672	302 - 2,858
Pink Salmon	5,653	414	4,842 - 6,464	1,420	447	679 - 2,409
<b>Kenai River - Cook Inlet to Soldotna Bridge</b>						
Early Chinook salmon, guided <sup>e</sup>	491	81	332 - 650	616	88	457 - 804
Early Chinook salmon, nonguided <sup>e</sup>	157	38	83 - 231	577	96	400 - 774
Late Chinook salmon, guided <sup>e</sup>	3,575	308	2,971 - 4,179	2,508	230	2,075 - 2,973
Late Chinook salmon, nonguided <sup>e</sup>	2,406	243	1,930 - 2,882	1,693	181	1,349 - 2,077

<sup>a</sup> Hubartt, et al (1999).

<sup>b</sup> A major access site (Clover Pass) was not sampled during the onsite survey. See the Discussion of this report regarding this and other comparisons.

<sup>c</sup> Bob Johnson, ADF&G, personal communication, 2000.

<sup>d</sup> Frenette, et al (1999).

<sup>e</sup> Marsh, et al (1999).

**Appendix A108.-Number of households responding to the 1998 standard and supplementary sport fish surveys by fishery.**

	Number of respondents		Total
	Standard	Supplementary	
<b>Area A. Ketchikan Area</b>			
<b>SALTWATER:</b>			
Boat - East, West Behm Canals	153	111	264
Boat - Clarence Strait	80	64	144
Boat - Revilla Channel	170	160	330
Boat - Tongass Narrows	47	27	74
Boat - Yes Bay	21	7	28
Boat - Bell Island	11	9	20
Boat - Other	28	74	102
Shoreline - Mountain Point	9	5	14
Shoreline - Other	21	12	33
<b>FRESHWATER:</b>			
Naha River	11	7	18
Ward Cove Creek	11	8	19
Ketchikan Creek	7	5	12
Other Streams	9	26	35
Ward Lake	16	8	24
McDonald Lake Drainage (incl. lake)	6	7	13
Other Lakes	19	15	34
<b>Area B. Prince of Wales Island Area</b>			
<b>SALTWATER:</b>			
Boat - Waterfall Bay	29	41	70
Boat - Eastside Prince of Wales Island	71	54	125
Boat - Westside Prince of Wales Island	128	140	268
Boat - Other	19	51	70
Shoreline	6	12	18
<b>FRESHWATER:</b>			
Thorne System (Stream, Lake)	27	20	47
Sweetwater System (Stream, Lake)	7	7	14
Sarkar System (Stream, Lake)	8	4	12
Other Systems	0	2	2
Karta River	10	6	16
Klawock River	12	9	21
Staney Creek	13	12	25
Eagle Creek	11	4	15
Harris River	13	8	21
Other Streams	17	22	39
Other Lakes	5	5	10

-continued-

**Appendix A108.-Page 2 of 12.**

	Number of respondents		Total
	Standard	Supplementary	
<b>Area C. Kake, Petersburg, Wrangell, Stikine Area</b>			
<b>SALTWATER:</b>			
Boat - Terminal Harvest Area near Petersburg (in Wrangell Narrows)	39	26	65
Boat - Frederick Sound near Petersburg	83	62	145
Boat - Rest of Petersburg Area	34	25	59
Boat - Wrangell Area	54	46	100
Boat - Kake Area	16	15	31
Boat - Sumner Strait	8	10	18
Boat - Other	11	41	52
Shoreline - Petersburg Road System	17	6	23
Shoreline - Other	12	7	19
<b>FRESHWATER:</b>			
Blind Slough (in Wrangell Narrows)	28	10	38
Petersburg Creek	16	12	28
Kah Sheets River	7	6	13
Other Streams	29	20	49
Lakes	15	4	19
Systems	3	0	3
<b>Area D. Sitka Area</b>			
<b>SALTWATER:</b>			
Boat - Crescent Bay (Sheldon Jackson Hatchery Area)	41	22	63
Boat - Starrigavan Bay	39	25	64
Boat - Silver Bay	40	34	74
Boat - Other Sitka Sound, incl. Vitskari Island	309	258	567
Boat - Salisbury Sound	98	94	192
Boat - Icy Straight	21	28	49
Boat - Yakobi Island	6	6	12
Boat - Hoonah Area	8	13	21
Boat - Chatham Strait	9	18	27
Boat - Cross Sound	15	15	30
Boat - Elfin Cove	7	10	17
Boat - Kruzof Island	34	35	69
Boat - Baranof Island	6	10	16
Boat - Hoonah Sound	5	7	12
Boat - Tenakee Inlet	12	18	30
Boat - Other	74	213	287
Shoreline - Crescent Bay (Sheldon Jackson Hatchery Area)	11	7	18
Shoreline - Starrigavan Bay	18	7	25
Shoreline - Other Sitka Sound	35	9	44
Shoreline - Other	25	19	44
<b>FRESHWATER:</b>			
Eva Lake System (Lake, Stream)	10	5	15
Baranof System (Lake, Stream)	19	9	28
Sitkoh System (Lake, Stream)	9	7	16
Other Systems	3	3	6
Other Streams	13	32	45
Other Lakes	13	13	26

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	Number of respondents		Total
	Standard	Supplementary	
<b>Area E. Juneau Area</b>			
<b>SALTWATER:</b>			
Boat - Doty Cove to Berners Bay and west to Pt. Retreat	300	269	569
Boat - Angoon Area	37	20	57
Boat - Stephens Passage	19	40	59
Boat - Lynn Canal	17	52	69
Boat - Admiralty Island	4	26	30
Boat - Funter Bay	9	19	28
Boat - Sheep Creek Area	1	14	15
Boat - Hand Troller Cove	2	20	22
Boat - Other	53	123	176
Shoreline - Sheep Creek Area	17	10	27
Shoreline - Auke Creek Mouth	22	8	30
Shoreline - Gastineau Hatchery - DIPAC	74	38	112
Shoreline - Other Juneau Road System	74	50	124
Shoreline - Other	32	22	54
<b>FRESHWATER:</b>			
Fish Creek (Douglas Island)	15	22	37
Peterson Creek and Salt Chuck	18	10	28
Cowee Creek	30	29	59
Montana Creek	30	26	56
Other Juneau Road System	17	15	32
Hasselborg Lake	5	7	12
Twin Lakes	12	6	18
Turner Lake	6	7	13
Other Streams	37	41	78
Other Lakes	5	8	13
<b>Area F. Haines-Skagway Area</b>			
<b>SKAGWAY SUB-AREA</b>			
<b>SALTWATER:</b>			
Boat	74	52	126
Shoreline	9	3	12
<b>FRESHWATER:</b>			
Streams	11	8	19
Lakes	4	3	7
<b>HAINES SUB-AREA</b>			
<b>SALTWATER:</b>			
Boat - Lynn Canal	4	17	21
Boat - Other	26	38	64
Shoreline	15	15	30
<b>FRESHWATER:</b>			
Chilkoot River	25	23	48
Chilkat River	23	17	40
Other Streams	2	5	7
Chilkoot Lake	23	16	39
Chilkat Lake	16	5	21
Other Lakes	4	6	10

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	Number of respondents		Total
	Standard	Supplementary	
<b>Area G. Glacier Bay Area</b>			
<b>SALTWATER:</b>			
Boat - Icy Straits	51	55	106
Boat - Glacier Bay	22	28	50
Boat - Excursion Inlet	20	21	41
Boat - Gustavus Area	26	22	48
Boat - Other	4	15	19
Shoreline	13	7	20
<b>FRESHWATER:</b>			
Streams	10	11	21
Lakes	2	1	3
<b>Area H. Yakutat Area</b>			
<b>SALTWATER:</b>			
Boat - Yakutat Bay	88	68	156
Boat - Other	7	14	21
Shoreline	4	4	8
<b>FRESHWATER:</b>			
Situk River, above weir	100	86	186
Situk River, below weir	67	49	116
Tsiu River	6	7	13
Lost River	20	9	29
Other Streams	13	21	34
Ankau System (River, Lagoons, Outlet)	8	0	8
Lakes	1	1	2
<b>Area I. Upper Copper/Upper Susitna Drainages</b>			
Gulkana River (Paxson to Sourdough)	100	68	168
Gulkana River (Sourdough to Highway)	197	178	375
Gulkana River Other	47	52	99
Klutina River	133	105	238
Mendeltna Creek	17	7	24
Tonsina River	9	11	20
Other Streams	45	44	89
Lake Louise	53	32	85
Susitna Lake	17	5	22
Van (Silver) Lake	15	20	35
Paxson Lake	39	24	63
Summit Lake (near Paxson)	19	12	31
Crosswind Lake	14	11	25
Other Lakes	54	63	117

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	Number of respondents		Total
	Standard	Supplementary	
<b>Area J. Prince William Sound Area</b>			
<b>SALTWATER:</b>			
Boat - Valdez Bay (including Port Valdez)	321	287	608
Boat - Passage Canal (Whittier)	90	57	147
Boat - Orca Inlet	44	51	95
Boat - Esther Island	28	38	66
Boat - Montague Island	26	57	83
Boat - Hinchinbrook Area	5	16	21
Boat - Other	62	141	203
Shoreline - Valdez Road System	146	21	167
Shoreline - Orca Inlet	16	16	32
Shoreline - Remainder of Valdez Arm	49	133	182
Shoreline - Other	24	23	47
<b>FRESHWATER:</b>			
Eyak River	23	20	43
Eshamy Lake, Creek, and Lagoon	5	5	10
Robe River Drainage	6	10	16
Alaganik Slough	15	5	20
Clear Creek	18	16	34
Other Streams	24	34	58
Other Lakes	14	13	27
<b>Area K. Knik Arm Drainage Area</b>			
<b>SALTWATER:</b>			
Boat	9	0	9
Shoreline	9	0	9
<b>FRESHWATER:</b>			
Little Susitna River	288	196	484
Knik River and Tributaries, including Jim Creek	80	39	119
Wasilla Creek (Rabbit Slough)	17	14	31
Cottonwood Creek	33	22	55
Fish Creek (Big Lake Drainage)	25	6	31
Eklutna Power Plant Raceway	71	26	97
Other Streams	8	7	15
Wasilla Lake	17	7	24
Finger Lake	47	50	97
Kepler Lake Complex	77	61	138
Big Lake	71	52	123
Cottonwood Lake	4	8	12
Flat Horn Lake	9	6	15
Lucille Lake	8	6	14
Lorraine Lake	7	5	12
Figure Eight Lake	7	10	17
Knik Lake	6	7	13
Weiner Lake	6	6	12
Nancy Lake	25	17	42
South Rolly Lake	15	8	23
Nancy Lake Recreation Area, Other Fishing Sites	38	43	81
Other Lakes	82	75	157

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	Number of respondents		Total
	Standard	Supplementary	
<b>Area L. Anchorage Area</b>			
<b>SALTWATER:</b>			
Boat	10	2	12
Shoreline	27	18	45
<b>FRESHWATER:</b>			
Jewel Lake	68	40	108
Campbell Point Lake	7	5	12
Sand Lake	34	12	46
Lower Fire Lake	35	11	46
Mirror Lake	44	35	79
Otter Lake	53	27	80
Clunie Lake	33	26	59
Gwen Lake	22	12	34
Sixmile Lake	34	27	61
Green Lake	28	21	49
Hillberg Lake	18	11	29
Triangle Lake	16	12	28
C Street (Taku) Lake	22	20	42
Fish Lake	25	11	36
Cheney Lake	40	26	66
Beach Lake	32	30	62
DeLong Lake	24	18	42
Other Lakes	17	18	35
Ship Creek	374	277	651
Bird Creek	249	198	447
Campbell Creek	52	25	77
Twentymile River	46	30	76
Eagle River	34	7	41
Other Streams	34	27	61

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	Number of respondents		Total
	Standard	Supplementary	
<b>Area M. East Susitna River Drainage</b>			
Willow Creek	319	247	566
Caswell Creek	49	34	83
Montana Creek	217	158	375
Sunshine Creek	39	24	63
Talkeetna River and Tributaries, including Clear Creek	222	192	414
Sheep Creek	108	84	192
Little Willow Creek	85	49	134
Goose Creek	39	35	74
Birch Creek	17	9	26
Kashwitna River	25	10	35
Troublesome Creek	25	16	41
Other Streams	33	36	69
Lakes	27	24	51
<b>Area N. West Cook Inlet-West Susitna River Drainages</b>			
<b>SALTWATER:</b>			
Upper Cook Inlet (Boat Sites North of Chinitna Point)	23	14	37
Lower Cook Inlet (Boat Sites South of Chinitna Point)	24	12	36
Razor Clams: Polly Creek Beach/Crescent River Bar	10	3	13
Other Shoreline	8	9	17
<b>FRESHWATER:</b>			
Deshka River (Kroto Creek) above weir	54	22	76
Deshka River (Kroto Creek) below weir	139	123	262
Lake Creek	112	95	207
Fish Lake Creek and Fish Lakes (Yentna Drainage)	37	29	66
Alexander Creek/Lake	74	91	165
Talachulitna River	28	24	52
Chuitna River	34	34	68
Theodore River	10	3	13
Kustatan River	46	38	84
Silver Salmon Creek	11	7	18
Yentna River	4	15	19
Susitna River	5	10	15
Other Sites - Susitna River Drainages	36	48	84
Other Sites - Susitna to North Forelands	15	14	29
Other Sites - South of North Forelands	10	12	22
Other Streams	23	46	69
Big River Lakes	13	11	24
Trapper Lake	11	9	20
Other Lakes	3	6	9

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	Number of respondents		Total
	Standard	Supplementary	
<b>Area P. Kenai Peninsula Area</b>			
<b>KENAI RIVER FRESHWATER NONGUIDED:</b>			
Kenai River - (Cook Inlet to Soldotna Bridge)	444	476	920
Kenai River - (Soldotna Bridge to Moose River)	320	284	604
Kenai River - (Moose River to Skilak Outlet)	173	153	326
Kenai River - (Skilak Inlet to Kenai Lake)	214	235	449
<b>KENAI RIVER FRESHWATER GUIDED:</b>			
Kenai River - (Cook Inlet to Soldotna Bridge)	338	249	587
Kenai River - (Soldotna Bridge to Moose River)	183	103	286
Kenai River - (Moose River to Skilak Outlet)	66	20	86
Kenai River - (Skilak Inlet to Kenai Lake)	70	43	113
<b>OTHER FRESHWATER:</b>			
Anchor River	215	135	350
Ninilchik River	187	135	322
Deep Creek	141	72	213
Stariski Creek	9	4	13
Resurrection Creek	63	72	135
Quartz Creek	56	27	83
Sixmile Creek Drainage	18	14	32
Russian River	642	576	1,218
Kasilof River - Nonguided Bank Fishing	239	196	435
Kasilof River - Nonguided Boat Fishing	58	52	110
Kasilof River - Guided Bank Fishing	48	10	58
Kasilof River - Guided Boat Fishing	152	113	265
Ptarmigan Creek	11	12	23
Other Streams	38	58	96
Swanson River	42	34	76
Swanson River Canoe Route Lakes	26	21	47
Swan Lake Canoe System	18	15	33
Hidden Lake	37	21	58
Crescent Lake	28	13	41
Skilak Lake	22	28	50
Tustumena Lake	16	14	30
Kenai Lake	10	9	19
Johnson Lake	12	20	32
Elephant Lake	9	15	24
Summit Lake	8	8	16
Other Lakes	86	106	192
<b>SALTWATER FINFISH CHARTER BOAT:</b>			
Barren Islands	147	128	275
Resurrection Bay (Seward)	401	396	797
Anchor River, Whiskey Gulch, Deep Creek, and Ninilchik River Areas	613	577	1,190
Other Cook Inlet North of Ninilchik River	2	15	17
Other Cook Inlet/Gulf Coast West of Gore Point	596	712	1,308
Other Gulf Coast East of Gore Point	14	20	34

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	Number of respondents		Total
	Standard	Supplementary	
<b>Area P. Kenai Peninsula Area (continued)</b>			
<b>SALTWATER FINFISH PRIVATE BOAT:</b>			
Barren Islands	16	11	27
Resurrection Bay (Seward)	266	320	586
Anchor River, Whiskey Gulch, Deep Creek, and Ninilchik River Areas	344	423	767
Other Cook Inlet North of Ninilchik River	1	8	9
Other Cook Inlet/Gulf Coast West of Gore Point	415	350	765
Other Gulf Coast East of Gore Point	11	20	31
<b>SALTWATER FINFISH SHORELINE:</b>			
Homer Spit (Kachemak Bay)	175	174	349
Resurrection Bay (Seward)	172	163	335
Anchor River, Whiskey Gulch, Deep Creek, and Ninilchik River Areas	6	32	38
Shoreline - Other	21	35	56
<b>SALTWATER SHELLFISH:</b>			
<b>SHELLFISH BETWEEN KASILOF AND ANCHOR POINT:</b>			
Anchor River to Deep Creek	64	44	108
Deep Creek to Set Net Access	163	158	321
Clam Gulch Beach (Set Net Access to Kasilof River)	214	296	510
<b>OTHER SHELLFISH:</b>			
Kachemak Bay (Homer)	62	65	127
Resurrection Bay (Seward)	12	1	13
Other Sites	2	2	4
<b>Area Q. Kodiak Area</b>			
<b>SALTWATER:</b>			
Boat - Chiniak Bay Area	113	78	191
Boat - Afognak Island Area	48	41	89
Boat - Whale Passage	5	10	15
Boat - Uyak Bay	8	10	18
Boat - Shuyak Area	8	4	12
Boat - Other	40	52	92
Shoreline - Chiniak Bay Area	49	22	71
Shoreline - Afognak Island Area	11	2	13
Shoreline - Afognak Lagoon (Litnik)	7	10	17
Shoreline - Other	13	7	20
<b>FRESHWATER:</b>			
Buskin River	101	78	179
Pasagshak River	33	24	57
Kariuk River and Lagoon	40	34	74
American River	38	29	67
Olds River (or Creek)	37	28	65
Red River (Ayakulik)	21	10	31
Saltery Cove Streams	26	15	41
Other Remote Streams	20	34	54
Other Road System Streams	17	22	39
Roadside Lakes	10	5	15
Other Lakes	10	6	16

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	Number of respondents		Total
	Standard	Supplementary	
<b>Area R. Naknek River Drainage-Alaska Peninsula Area</b>			
<b>SALTWATER:</b>			
Boat - Unalaska Bay	21	21	42
Boat - Other	15	24	39
Shoreline	17	6	23
<b>FRESHWATER:</b>			
Cold Bay Area (including Russel Creek)	11	9	20
Naknek River above Rapids Camp	43	39	82
Naknek River below Rapids Camp	59	61	120
Brooks River	38	24	62
American Creek	15	7	22
Unalaska Bay Streams	14	3	17
Other Streams	24	21	45
Ugashik System	15	12	27
Becharof System	19	11	30
Naknek Lake - Bay of Islands	9	4	13
Naknek Lake - Other	8	3	11
Other Lakes	11	4	15
<b>Area S. Kvichak River Drainage Area</b>			
Kvichak River	34	42	76
Newhalen River	27	31	58
Alagnak (Branch) River	47	48	95
Copper River (tributary of Lake Iliamna)	25	19	44
Lower Talarik Creek	6	11	17
Kulik River	10	11	21
Other Streams	23	28	51
Lake Iliamna	10	12	22
Lake Clark	15	14	29
Other Lakes	16	15	31
<b>Area T. Nushagak Area</b>			
<b>SALTWATER:</b>			
Boat	3	3	6
<b>FRESHWATER:</b>			
Nushagak River - Black Pt. to outlet of Iowithia R.	54	51	105
Nushagak River - Iowithia R. to outlet of Mulchatna R.	33	17	50
Nushagak River - upstream from mouth of Mulchatna R.	34	21	55
Other Nushagak System	6	24	30
Wood River Lakes System	52	41	93
Tikchik-Nuyakuk Lake System	24	15	39
Togiak River System	13	16	29
Mulchatna River	20	22	42
Other Streams	14	17	31
Other Lakes	4	4	8

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	Number of respondents		Total
	Standard	Supplementary	
<b>Area U. Tanana River Drainages</b>			
Upper Chena River	139	89	228
Lower Chena River	141	114	255
Piledriver Slough	60	45	105
Nenana River Drainage (excluding Brushkana Creek)	14	6	20
Lower Chatanika River & tributaries (downstream of Elliot Hwy)	33	22	55
Upper Chatanika River (upstream of Elliot Hwy)	53	35	88
Salcha River	78	51	129
Delta Clearwater River	37	30	67
Shaw Creek	5	7	12
Goodpaster River	10	6	16
Brushkana Creek	20	11	31
Lower Tanana River	4	6	10
Middle Tanana River	26	30	56
Upper Tanana River	8	9	17
Delta River (below Tangle Lakes)	6	7	13
Other Streams	42	56	98
Birch Lake	101	89	190
Quartz Lake	134	89	223
Fielding Lake	15	10	25
Minto Flats	37	11	48
Tangle Lakes and Tangle River	61	66	127
Chena Lake (Lake only)	64	44	108
Harding Lake	57	31	88
Dune Lake	10	7	17
George Lake	15	13	28
Koole Lake	7	6	13
Steese Ponds	19	19	38
Chena Hot Springs Road Ponds	30	32	62
Coal Mine Road Lakes	7	9	16
Other Lakes	83	101	184
<b>Area V. Kuskokwim-Goodnews Drainages</b>			
<b>SALTWATER:</b>			
Boat	9	2	11
Shoreline	2	0	2
<b>FRESHWATER:</b>			
<b>Kuskokwim-Goodnews Drainages above Aniak River</b>			
Holitna River	10	6	16
Other Streams	12	3	15
Other Lakes	4	1	5
<b>Kuskokwim-Goodnews Drainages below Aniak River</b>			
Aniak River	21	12	33
Kanektok River	44	39	83
Goodnews River	26	22	48
Other Streams	17	15	32
Other Lakes	5	1	6
<b>Kuskokwim-Goodnews Drainages Other Waters</b>			
Other Streams	18	10	28
Other Lakes	4	3	7

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	Number of respondents		Total
	Standard	Supplementary	
<b>Area W. Seward Peninsula-Norton Sound Drainages</b>			
<b>SALTWATER:</b>			
Boat	18	4	22
Shoreline	11	1	12
<b>FRESHWATER:</b>			
Nome River	10	14	24
Pilgrim River	6	8	14
Unalakleet River	15	13	28
Fish-Niukluk River System	5	3	8
Cripple Creek	7	13	20
Other Streams	12	22	34
Lakes	1	0	1
<b>Area X. Northwest Alaska Drainages</b>			
<b>SALTWATER:</b>			
Boat	1	1	2
Shoreline	1	1	2
<b>FRESHWATER:</b>			
Kobuk River	14	12	26
Noatak River	7	5	12
Other Streams	11	6	17
Lakes	6	1	7
<b>Area Y. Yukon River Drainages</b>			
<b>Yukon River Drainages (downstream from Koyukuk River)</b>			
Innoko River	4	6	10
Other Lakes and Streams	14	14	28
<b>Yukon River Drainages (Koyukuk River to Fort Yukon)</b>			
Koyukuk River Drainage (excluding Haul Road drainages or unspecified)	21	16	37
Haul Road Lakes and Streams in Koyukuk Drainage	3	9	12
Other Haul Road Lakes and Streams	0	1	1
Nowitna River	4	5	9
Dall River	8	4	12
Beaver and Nome Creeks	9	5	14
Other Lakes and Streams	21	12	33
<b>Yukon River Drainages (Fort Yukon to Canadian Border)</b>			
Other Streams	9	13	22
Other Streams	1	2	3
<b>Area Z. North Slope Brooks Range Drainages</b>			
<b>SALTWATER:</b>			
Boat	3	0	3
Shoreline	1	2	3
<b>FRESHWATER:</b>			
Sagavanirktok River	12	9	21
Other Haul Road Streams	11	7	18
Other Streams	6	8	14
Other Lakes	10	9	19