

Fishery Data Series No. 01-8

Participation, Catch, and Harvest in Alaska Sport Fisheries During 1999

by

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June 2001

Alaska Department of Fish and Game

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Symbols and Abbreviations

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

FISHERY DATA SERIES NO. 01-8

**PARTICIPATION, CATCH, AND HARVEST IN ALASKA SPORT
FISHERIES DURING 1999**

by
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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.

TABLE OF CONTENTS

	Page
PREFACE.....	i
ABSTRACT	1
INTRODUCTION	1
METHODS	1
Sample Selection.....	1
Data Collection	2
Computer-Based Editing	2
Editing Review Procedures	6
Summary Reports	7
Estimation Procedures	7
RESULTS.....	10
Participation	10
Harvest.....	10
Catch	11
DISCUSSION	11
ACKNOWLEDGMENTS.....	16
LITERATURE CITED	16
APPENDIX A. TABLES AND FIGURES	19
APPENDIX B. QUESTIONNAIRES AND REMINDERS.....	145

LIST OF TABLES

Table	Page
1. Comparison of the effects of computer-based editing on number of household anglers (NA), number of household trips (NT), and number of angler-days fished (DF), 1998 through 2000.	5
2. Original and revised 1996-1998 and 1999 Statewide estimates of participation and harvest.....	12
3. Original and revised 1996-1998 and 1999 Southeast estimates of participation and harvest.	13
4. Original and revised 1996-1998 and 1999 Southcentral estimates of participation and harvest.....	14
5. Original and revised 1996-1998 and 1999 Arctic-Yukon-Kuskokwim estimates of participation and harvest.	15

LIST OF APPENDICES

Appendix	Page
A1. Map of Alaska sportfishing regions and areas.	20
A2. List of Alaska sportfishing regions and areas.	21
A3. List of common names, scientific names, and abbreviations.	22
A4. Response to the supplementary Alaska sport fish survey mailing, 1999.	23
A5. Response to the standard Alaska sport fish survey mailing, 1999.	24
A6. Number and percent of Alaska sportfishing licenses by residency, 1961-1999.	25
A7. Statewide and regional participation in Alaska sport fishing by residency, 1994-1999.	26
A8. Anglers who sport fished in Alaska by area of residence, 1996-1999.	27
A9. Number of anglers who sport fished in Alaska by area of residence, 1990-1999.	28
A10. Number of anglers by Alaska region and area fished, 1989-1999.	29
A11. Number of Alaska sport fishing trips by region and area, 1989-1999.	30
A12. Angler-days fished in Alaska, statewide and by region, 1996-1999.	31
A13. Number of angler-days fished in Alaska and percentage by region and area, 1989-1999.	32
A14. Alaska sport fish harvest by species, 1989-1999, and catch by species, 1999.	34
A15. Alaska saltwater sport fish harvest by species, 1989-1999, and catch by species, 1999.	35
A16. Alaska freshwater sport fish harvest by species, 1989-1999, and catch by species, 1999.	36
A17. Southeast Alaska sport fish harvest by species, 1989-1999, and catch by species, 1999.	37
A18. Southcentral Alaska sport fish harvest by species, 1989-1999, and catch by species, 1999.	38
A19. Arctic-Yukon-Kuskokwim Alaska sport fish harvest by species, 1989-1999, and catch by species, 1999.	39
A20. Alaska sport sea-run salmon harvests, 1989-1999, statewide and by region.	40
A21. Alaska sport sea-run salmon harvests, 1989-1999, and catch, 1999, by region and area.	41
A22. Alaska sport sea-run chinook salmon harvests, 1989-1999, statewide and by region.	42
A23. Alaska sport sea-run chinook salmon harvests, 1989-1999, and catch, 1999, by region and area.	43
A24. Alaska sport sea-run coho salmon harvests, 1989-1999, statewide and by region.	44
A25. Alaska sport sea-run coho salmon harvests, 1989-1999, and catch, 1999, by region and area.	45
A26. Alaska sport sockeye salmon harvests, 1989-1999, statewide and by region.	46
A27. Alaska sport sockeye salmon harvests, 1989-1999, and catch, 1999, by region and area.	47
A28. Alaska sport pink salmon harvests, 1989-1999, statewide and by region.	48
A29. Alaska sport pink salmon harvests, 1989-1999, and catch, 1999, by region and area.	49
A30. Alaska sport chum salmon harvests, 1989-1999, statewide and by region.	50
A31. Alaska sport chum salmon harvests, 1989-1999, and catch, 1999, by region and area.	51
A32. Alaska sport landlocked coho salmon and chinook salmon harvests, 1989-1999, and catch, 1999, by region and area.	52
A33. Alaska sport kokanee salmon harvests, 1989-1999, and catch, 1999, by region and area.	53
A34. Alaska sport steelhead harvests, 1989-1999, and catch, 1999, by region and area.	54
A35. Alaska sport rainbow trout harvests, 1989-1999, and catch, 1999, by region and area.	55
A36. Alaska sport cutthroat trout harvests, 1989-1999, and catch, 1999, by region and area.	56
A37. Alaska sport brook trout harvests, 1989-1999, and catch, 1999, by region and area.	57
A38. Alaska sport lake trout harvests, 1989-1999, and catch, 1999, by region and area.	58
A39. Alaska sport Dolly Varden and Arctic char harvests, 1989-1999, and catch, 1999, by region and area.	59
A40. Alaska sport Arctic grayling harvests, 1989-1999, and catch, 1999, by region and area.	60
A41. Alaska sport northern pike harvests, 1989-1999, and catch, 1999, by region and area.	61
A42. Alaska sport whitefish harvests, 1989-1999, and catch, 1999, by region and area.	62
A43. Alaska sport burbot harvests, 1989-1999, and catch, 1999, by region and area.	63
A44. Alaska sport sheefish harvests, 1989-1999, and catch, 1999, by region and area.	64
A45. Alaska sport smelt harvests, 1989-1999, and catch, 1999, by region and area.	65
A46. Alaska sport Pacific halibut harvests, 1989-1999, and catch, 1999, by region and area.	66
A47. Alaska sport rockfish harvests, 1989-1999, and catch, 1999, by region and area.	67
A48. Alaska sport lingcod harvests, 1991-1999, and catch, 1999, by region and area.	68
A49. Alaska sport razor clam harvests, 1989-1999, and catch, 1999, by region and area.	69

LIST OF APPENDICES (Continued)

Appendix	Page
A50. Alaska sport harvests, 1989-1999, and catch, 1999, of other fish by region and area	70
A51. Ketchikan Area sport fish harvest and effort by fisheries and species, 1999.	72
A52. Ketchikan Area standard errors of sport fish harvest and effort by fisheries and species, 1999.	73
A53. Prince of Wales Island Area sport fish harvest and effort by fisheries and species, 1999.	74
A54. Prince of Wales Island Area standard errors of sport fish harvest and effort by fisheries and species, 1999.	75
A55. Kake, Petersburg, Wrangell, Stikine Area sport fish harvest and effort by fisheries and species, 1999.	76
A56. Kake, Petersburg, Wrangell, Stikine Area standard errors of sport fish harvest and effort by fisheries and species, 1999.	77
A57. Sitka Area sport fish harvest and effort by fisheries and species, 1999.	78
A58. Sitka Area standard errors of sport fish harvest and effort by fisheries and species, 1999.	79
A59. Juneau Area sport fish harvest and effort by fisheries and species, 1999.	80
A60. Juneau Area standard errors of sport fish harvest and effort by fisheries and species, 1999.	81
A61. Haines-Skagway Area sport fish harvest and effort by fisheries and species, 1999.	82
A62. Haines-Skagway Area standard errors of sport fish harvest and effort by fisheries and species, 1999.	83
A63. Glacier Bay Area sport fish harvest and effort by fisheries and species, 1999.	84
A64. Glacier Bay Area standard errors of sport fish harvest and effort by fisheries and species, 1999.	85
A65. Yakutat Area sport fish harvest and effort by fisheries and species, 1999.	86
A66. Yakutat Area standard errors of sport fish harvest and effort by fisheries and species, 1999.	87
A67. Upper Copper/Upper Susitna Drainages sport fish harvest and effort by fisheries and species, 1999.	88
A68. Upper Copper/Upper Susitna Drainages standard errors of sport fish harvest and effort by fisheries and species, 1999.	89
A69. Prince William Sound Area sport fish harvest and effort by fisheries and species, 1999.	90
A70. Prince William Sound Area standard errors of sport fish harvest and effort by fisheries and species, 1999.	91
A71. Knik Arm Drainage Area sport fish harvest and effort by fisheries and species, 1999.	92
A72. Knik Arm Drainage Area standard errors of sport fish harvest and effort by fisheries and species, 1999.	93
A73. Anchorage Area sport fish harvest and effort by fisheries and species, 1999.	94
A74. Anchorage Area standard errors of sport fish harvest and effort by fisheries and species, 1999.	95
A75. East Susitna River Drainage sport fish harvest and effort by fisheries and species, 1999.	96
A76. East Susitna River Drainage standard errors of sport fish harvest and effort by fisheries and species, 1999.	97
A77. West Cook Inlet-West Susitna River Drainages sport fish harvest and effort by fisheries and species, 1999.	98
A78. West Cook Inlet-West Susitna River Drainages standard errors of sport fish harvest and effort by fisheries and species, 1999.	99
A79. Kenai River sport fish freshwater nonguided harvest and effort by fisheries and species, 1999.	100
A80. Kenai River standard errors of sport fish freshwater nonguided harvest and effort by fisheries and species, 1999.	101
A81. Kenai River sport fish freshwater guided harvest and effort by fisheries and species, 1999.	102
A82. Kenai River standard errors of sport fish freshwater guided harvest and effort by fisheries and species, 1999.	103
A83. Kenai Peninsula Area sport fish freshwater harvest and effort by fisheries and species, 1999.	104
A84. Kenai Peninsula Area standard errors of sport fish freshwater harvest and effort by fisheries and species, 1999.	105
A85. Kenai Peninsula Area sport fish saltwater harvest and effort by fisheries for finfish species, 1999.	106
A86. Kenai Peninsula Area standard errors of sport fish saltwater harvest and effort by fisheries for finfish species, 1999.	107
A87. Kenai Peninsula Area sport fish harvest and effort by fisheries for shellfish, 1999.	108
A88. Kenai Peninsula Area standard errors of sport fish harvest and effort by fisheries for shellfish, 1999.	109
A89. Kodiak Area sport fish harvest and effort by fisheries and species, 1999.	110
A90. Kodiak Area standard errors of sport fish harvest and effort by fisheries and species, 1999.	111

LIST OF APPENDICES (Continued)

Appendix	Page
A91. Naknek River Drainage-Alaska Peninsula Area sport fish harvest and effort by fisheries and species, 1999.....	112
A92. Naknek River Drainage-Alaska Peninsula Area standard errors of sport fish harvest and effort by fisheries and species, 1999.	113
A93. Kvichak River Drainage Area sport fish harvest and effort by fisheries and species, 1999.....	114
A94. Kvichak River Drainage Area standard errors of sport fish harvest and effort by fisheries and species, 1999.....	115
A95. Nushagak Area sport fish harvest and effort by fisheries and species, 1999.	116
A96. Nushagak Area standard errors of sport fish harvest and effort by fisheries and species, 1999.	117
A97. Tanana River Drainages sport fish harvest and effort by fisheries and species, 1999.	118
A98. Tanana River Drainages standard errors of sport fish harvest and effort by fisheries and species, 1999.	119
A99. Kuskokwim-Goodnews Drainages sport fish harvest and effort by fisheries and species, 1999.....	120
A100. Kuskokwim-Goodnews Drainages standard errors of sport fish harvest and effort by fisheries and species, 1999.	121
A101. Seward Peninsula-Norton Sound Drainages sport fish harvest and effort by fisheries and species, 1999. ..	122
A102. Seward Peninsula-Norton Sound Drainages standard errors of sport fish harvest and effort by fisheries and species, 1999.....	123
A103. Northwest Alaska Drainages sport fish harvest and effort by fisheries and species, 1999.....	124
A104. Northwest Alaska Drainages standard errors of sport fish harvest and effort by fisheries and species, 1999.....	125
A105. Yukon River Drainages sport fish harvest and effort by fisheries and species, 1999.	126
A106. Yukon River Drainages standard errors of sport fish harvest and effort by fisheries and species, 1999.	127
A107. North Slope Brooks Range Drainages sport fish harvest and effort by fisheries and species, 1999.	128
A108. North Slope Brooks Range Drainages standard errors of sport fish harvest and effort by fisheries and species, 1999.	129
A109. Comparison of 1999 Alaska statewide survey and onsite survey estimates and confidence intervals (CI)..	130
A110. Number of households responding to the 1999 standard and supplementary sport fish surveys by fishery.....	132
B1. Sport fish standard survey questionnaire, 1999.	147
B2. First reminder standard survey, 1999.....	191
B3. Second reminder standard survey, 1999.	192
B4. Sport fish supplementary survey questionnaire, 1999.....	193
B5. First reminder supplementary survey, 1999.....	207
B6. Second reminder supplementary survey, 1999.	208
B7. Sport fish supplementary survey map/site booklet, 1999.....	209

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 1999. In 1999, an estimated 425,979 anglers fished 2,499,152 days and kept 3,093,608 of 7,135,870 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-third 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

SAMPLE SELECTION

During the processing of the 1998 sport fish survey an assessment was done on the completeness of the 1998 sport license file at the time that the survey sample was drawn. The assessment identified that the file included only partial license sales from July onwards, but was relatively complete for January through June sales. As operations/budgets precluded operational changes to the project, a post stratification approach was undertaken to adjust for these deficiencies.

For the 1999 survey, a more proactive approach was undertaken. Prior to resident and nonresident sampling, the license file was assessed for its completeness relative to final versions of previous years' data. Although the version of the license file available in September 1999 was deemed complete for the purposes of the resident sample, the October version of the file was deemed incomplete for the purposes of the nonresident sample. The October version of the license file included about 80% of the anticipated January through July nonresident license sales, but only 10% of the anticipated August sales based on previous years' sales. Over the previous 6 years, January through July account for 66% of the total nonresident sales on average, and August-December accounting for 34%. August alone

accounts for ~25% of annual nonresident sales on average. It is important that sales in this month are represented in the sample as they are a significant portion of overall sales and nonresident fishing activities in August would otherwise not be measured.

As a result, it was decided to split the nonresident sample into two portions. One portion was based on a sport license file available in November, and from which samples would be drawn from nonresident license sales occurring prior to August (identified as the “early” nonresident sample). This would be for 70% of the total nonresident sample. The remainder of the nonresident sample would be drawn from a file made available from Licensing Section once they could ensure that all August sales had been processed (identified as the “late” nonresident sample).

After surveys had been returned, we compared response rates from the “early” and “late” nonresident samples and found no appreciable difference. Also, statistics such as the non-response bias correction factors for trips, days fished, chinook salmon *Oncorhynchus tshawytscha* harvested and Pacific halibut *Hippoglossus stenolepis* harvested were compared between the two samples and there was no difference. Finally, we looked at the end of year license file to identify whether the proportions of January through July and post-July sales had changed from previous years, and they had not. We concluded we could pool the “early” and “late” samples together to simplify processing, and felt that this approached better represented the population of nonresident license holders than methods used in previous years.

DATA COLLECTION

Two types of questionnaires were used to estimate harvest associated with sport fishing in Alaska in 1999. One type, the "standard" type,

was a multipage questionnaire similar to those used annually since 1977 (Appendix B1). The other type, the "supplementary" type, was a booklet accompanied by a list of sites (Appendix B4). The standard type was mailed to a stratified random sample of about 22,000 households containing at least one individual who purchased 1999 sportfishing licenses or at least one individual who possessed either a valid permanent identification card (PID) or a disabled veteran card (DAV) for Alaska sport fishing (Appendix A5). The supplementary type was mailed to a stratified random sample of about 25,000 such households (Appendix A4). Stratification for both types was by household residence: Alaska, other United States, Canada, and other foreign. Reminder letters and questionnaires were mailed to first-time and second-time nonrespondents to both types.

COMPUTER-BASED EDITING

While data coders detected some response errors (e.g., information recorded on the incorrect Area page), the majority of problems were dealt with via computer-based editing programs. The edit programs checked the data records for incorrect fishing site codes; inconsistent and potentially incorrect relationships between the number of members in the household, the number of anglers, number of trips, and number of days fished; data that indicate a fish was harvested at a site where that species is not found; and data that indicate a higher than legal harvest.

The General Question responses were used to establish a maximum number of household anglers who fished (TOTFSHRS). If no General Question responses were completed for a survey response, the largest number of anglers reported fishing at any site for this response was used for TOTFSHRS.

Once TOTFSHRS was established for a survey response, any value for number of anglers on a reported harvest record that exceeded TOTFSHRS was set to equal TOTFSHRS. No adjustments were made to other effort variables, catch, or harvest data during this step.

The first check for the participation, catch, and harvest data was to ensure for each species that when harvest was \geq catch that catch was set equal to harvest. Also records with razor clam and hardshell clam harvests = 0 and catch > 0, the harvest was set equal to reported catch.

Programs were then used to examine the participation variables of number of anglers (NA), number of trips (NT), and days fished (DF) and to impute missing values¹. One goal was to only change those fields with missing information and to not modify reported data. At the culmination of this process there were no 0 values (or blanks) for NA, NT, and DF in any records with reported catch or harvest. To accomplish this, two passes were made through the data. The first pass used only those data records that were not missing one or more values for the NA, NT, and DF variables, and for which $NA \leq DF$. For each site code, these records were then categorized as local and non-local² to ultimately obtain an average trip length (AVG TRIP) in days fished. The general process was to impute missing values for NA first, followed by DF, then NT.

- NA = 0:

¹ The values of NA, NT, DF are provided by the survey respondent for each location fished. NA is the number of household anglers that fished at a location; NT is the number of fishing trips the household made to that location; and DF is the sum of calendar days fished by all household members at that location. Thus if 2 household anglers fished at a location on one calendar day, $DF = 2$.

² An angler household that resides within the area where the site occurs is local; all other anglers are non-local. Thus under this definition, some Alaska residents would be grouped with nonresidents in the non-local group.

1. If $NT > 0$ and $DF > 0$ and $TOTFSHRS > 0$, then replace NA with TOTFSHRS.
 2. If $NT > 0$ and $DF = 0$, then NA and DF will be replaced with TOTFSHRS.
 3. If $NT = 0$ and $DF > 0$, then NA will be replaced with $MIN(TOTFSHRS, DF)$; NT will be imputed later.
 4. If $NT = 0$ and $DF = 0$, then NA and DF will be replaced with TOTFSHRS and NT will be imputed later.
- NA \neq 0
 1. $NA > DF$ and $DF > 0$, then DF will be replaced with NA.
 2. $NA > 0$ and $DF = 0$, then replace DF with NA.

At this stage in the editing process both NA and DF had values > 0. If $NT = 0$, then it was replaced with $(DF/NA)/AVG$ TRIP depending on angler category (i.e., local or non-local). If $NA < NT$ and $DF < (NA*NT)$, DF was be replaced with the greater of DF or NT.

This approach for imputing missing data items was somewhat biased compared to a more principled approach to imputation. A comparison of ad hoc mean imputation for each missing value (for NA, DF, and NT) with a multiple imputation approach using Monte Carlo Markov chain data augmentation procedure (MI-MCMC) indicated the missing data mechanism was of the missing completely at random (MCAR) type (Rubin 1987, Shafer 1997). Accordingly, ignoring the missing data would have been justified. However, due to interdependencies between these effort variables and later data checks in the data processing process it was determined that imputation was necessary to avoid overall biases in estimates of participation as well as catch and harvest parameters. The results from

the imputation procedure outlined above compared favorably with both the simple mean imputation and the MI-MCMC imputation. Accordingly, the simpler (than MI-MCMC) approach was chosen for the 1999 survey processing.

Table 1 displays the effects of computer-based editing on number of household anglers (NA), number of household trips (NT), and number of angler-days fished (DF), 1998 through 2000³. The percent of NA and DF records changed declined between 1998 and 1999 and remained stable in 2000. We believe this reduction in number of records changed may be related to revised wording in the 1999 questionnaire that possibly clarified for anglers how to more accurately report their household anglers and angler-days fished. The questionnaire wording for these participation variables did not change between the 1999 and 2000 surveys.

The next data check identified those records that contained species reported as caught or harvested that do not occur at a location. The general approach was to change the reported species to a species that does occur at the specific location based on guidance that was historically provided by area staff. If no specification for changing a species existed for the site, it was considered an invalid species for the location. Records containing invalid species were listed and manually reviewed. Area staff were consulted to determine if these species should be shifted to another valid species, to the non-specific “other” category, or zeroed out.

The current policy is to estimate legal sport harvest. Therefore, reported harvest was checked against daily and seasonal limits. Information on number of anglers, days fished, and angler residency was taken into account

when editing records so they do not exceed the maximum legal harvests. This general approach was “relaxed” for lingcod in Resurrection Bay. In that instance area staff believed anglers were reporting harvest by port of landing and not location of harvest. Thus apparent illegal harvest recorded was assumed to be legal harvest and thus not deleted.

A slightly different scenario existed for Southeast chinook salmon, but the standard approach to handling illegal harvest was maintained. There was some circumstantial evidence that the apparent illegal harvest of small chinook salmon may have been legal harvests of large chinook salmon. Yet lacking strong evidence to the contrary, the assumption was that these were illegal harvest of small chinook salmon and thus harvests were reduced to legal limits for the size category and location fished.

A follow-up survey conducted on 1999 responses with apparent illegal harvest of small chinook salmon in Southeast has not been fully analyzed at this date. Yet due to the relatively low response rate (34%), it is unlikely that any editing procedure will be developed. Follow-up surveys may be conducted for 2000 survey responses so that some resolution to the problem can be reached.

³ While 2000 survey estimates are not yet final, the data have gone through the computer-based editing process.

Table 1.-Comparison of the effects of computer-based editing on number of household anglers (NA), number of household trips (NT), and number of angler-days fished (DF), 1998 through 2000.

Statistic	Year	Total catch/harvest records	Original Total	Corrected Total	Number of Records Changed	Percent of Record Changed	Absolute Change	Percent Change
NA	2000	41,566	64,355	65,032	1,809	4.4%	677	1.1%
	1999	42,287	65,554	66,336	1,730	4.1%	782	1.2%
	1998	42,981	78,249	70,623	5,460	12.7%	(7,626)	-9.7%
NT	2000	41,566	116,851	121,778	2,382	5.7%	4,927	4.2%
	1999	42,287	118,133	123,702	2,426	5.7%	5,569	4.7%
	1998	42,981	116,831	120,555	1,763	4.1%	3,724	3.2%
DF	2000	41,566	190,079	203,094	5,421	13.0%	13,015	6.8%
	1999	42,287	195,443	208,627	5,515	13.0%	13,184	6.7%
	1998	42,981	154,038	179,434	9,871	23.0%	25,396	16.5%

EDITING REVIEW PROCEDURES

For the standard and supplementary surveys records of species harvest or catch flagged as incorrect (misidentified species or species known not to occur at a given site) were reviewed after computer editing had flagged probable errors. Summaries of all of the data were reviewed after editing had taken place.

A printout of records flagged as exceeding legal bag limits was reviewed to compare the area and/or site-specific sport fish harvest regulations for the year. Each rejected record was checked. If some records were rejected for harvests that actually fell within the site's bag limits, the records were noted for further review and the edit program was revised and rerun.

A printout of records flagged as invalid species at a site were reviewed and edited. The goal of this process was to correct as many incorrect records as reasonably possible. If flag species did occur at a site, the edit specifications were revised and the edit program rerun.

Some invalid species records were easy to correct. These included cases where the anglers harvested only razor clams, but harvested them from a boat site (the edit program was revised as needed to move these records to the equivalent shoreline site). The edit program changed anadromous coho salmon harvested from landlocked lakes stocked with landlocked salmon to landlocked salmon.

The remaining flagged records were checked against notes taken from contacts with area biologists in previous years. These notes were filed in the statewide harvest central files for each year under the heading: Species and Bag Limit Edit Specifications. Records from Southeast Alaska were also checked against Schwan (1984). A quick search was also done of any other obvious sources of information

(usually division reports, stocking records, the Anadromous Waters Catalog, and Emergency Orders). Stocking records were available at the end of January. Based on this review, edit programs were updated and rerun as needed.

Finally, Sport Fish Division area biologists were contacted concerning records that could not be confirmed as either correct or incorrect by the above approach. If the area biologist agreed that the record was incorrect, he or she was then asked his or her opinion about what should be done with the record. In some cases the respondent probably recorded their harvest in the wrong site. In other cases the respondent probably misidentified their harvest. Some harvests were too unusual to be changed, and were flagged in the database as unusable. If there were two or more possibilities for what the correct response should be, and none of the possibilities seemed more likely, then the record was also flagged as unusable. The edit programs were updated to reflect the area biologist's recommendations.

The list of other fish write-ins was reviewed to determine if any species was being written in by a large number of people in an area. If this occurred, consideration was given to adding the species to the survey for that area in future years.

The "editing" programs produced listings that identified all changes made, record-by-record. This information was maintained in electronic form and printed and kept in a binder. Editing programs included comments/annotations that explained the nature of the code, identified changes made from previous years, and identified areas that needed to be addressed. When all editing had been completed, a written and electronic file summary of all the species editing that has occurred was maintained to document revisions.

SUMMARY REPORTS

For each survey (standard and supplementary) several reports were generated from the survey database: listings of acceptable responses, listings of unacceptable responses, summary statistics for household information, and summary statistics for harvest and participation data by area and fishing site. The listings of unacceptable responses and summary statistics for harvest were reviewed and edited by hand to correct as much of the data as possible and to check for errors in the computer editing programs.

The following series of programs generated reports from the records contained in the survey database. These reports were used to verify and enhance the editing, and to aid in the calculation of estimates.

- Outlier Detection Program
- Nonresponse Bias Program
- Estimate Database Program

The Outlier Detection process occurred during the editing process before a “final” data set was used for nonresponse and estimation parameter calculation. Once the data set was final, a series of programs were run to calculate survey expansion and nonresponse factors based upon “final” data. Project staff applied these factors to survey information to produce catch and harvest estimates by survey group (resident and nonresident) for each location code. The resulting current year estimate file was appended into the historic Estimate Database. The programs were able to handle estimation by area and species groupings. A report of estimated harvest by site and species was produced. Copies of the appropriate sections of this summary report were sent to the area biologists. The biologists were asked to identify any problems with the data. Changes or corrections recommended by area biologists

were incorporated into the database(s) as appropriate.

Estimates, summarized by site were loaded into a database to facilitate miscellaneous updates and for the production of various reports used in the Statewide Harvest Survey Report. The actual database is composed of several working subsets of the data.

Many tables were generated from the estimate database for use in the final published report. The tables generated from the estimate database required minor alteration and modifications to make them of publishable quality. Several programs, as well as word processing work, were involved. Several miscellaneous tables not included in the published report were also be generated.

ESTIMATION PROCEDURES

For both types each household was asked for information for 1999 on number of licensees, on participation (number of anglers, trips, and days fished), and number of fish caught and number of fish kept (harvested) by species and site. Information from both types was pooled and harvest for each species for each site was estimated by:

$$\hat{Y}_{hk} = \hat{N}_h \hat{R}_h \frac{\sum_{i=1}^3 \sum_{j=1}^{n_{hi}} y_{hijk}}{\sum_{i=1}^3 n_{hi}} \quad (1)$$

where:

y_{hijk} = harvest at the k^{th} site by the j^{th} household responding to the i^{th} mailing for the h^{th} stratum;

n_{hi} = number of households responding to the i^{th} mailing for the h^{th} stratum;

\hat{N}_h = estimated number of households with at least one fishing license holder in 1999 for the h^{th} stratum

$$= \hat{N}_h = (M_h + P_h) \hat{V}_h ; \quad (2)$$

M_h = number of license holders residing in stratum h in 1999;

P_h = equals the total number of individuals with either (1) a PID issued during 1988 through 1998, (2) a PID issued in 1999 for the Alaskan resident stratum (equal to zero for all other strata), or (3) a DAV card;

\hat{V}_h = is the estimated ratio of the number of households to license-holders and PID or DAV holders for each stratum, calculated from the respondents to the survey as:

$$= \frac{\sum_{i=1}^3 n_{hi}^\dagger}{\sum_{i=1}^3 \sum_{j=1}^I (m_{hij} + p_{hij})} \quad (3)$$

n_{hi}^\dagger = the number of respondents (Appendices A4 and A5) to the i^{th} mailing for the h^{th} stratum who answered the questions regarding the number of sportfishing license and PID or DAV holders;

m_{hij} = the reported number of sportfishing license holders in the household for the j^{th} household for the i^{th} mailing for the h^{th} stratum, which is equal to the response for question 2A from the general information page of the questionnaire (Appendices B1 and B4);

p_{hij} = the reported number of individual PID or DAV holders for the j^{th} household for the i^{th} mailing for the h^{th} stratum (equal to the response for question 1B from the general information page of the questionnaire); and

\hat{R}_h = nonresponse ratio for residential stratum h.

The \hat{R}_h were obtained by simulation based on the following exponential regression models developed for responding households:

$$\ln(n_{hi}) = \alpha_{nh} + \beta_{nh}i + \varepsilon_{nhi}, \quad (4)$$

for $i = 1, 2, 3$;

$$\ln(r_{hi} + 10^{-7}) = \alpha_{rh} + \beta_{rh}i + \varepsilon_{rhi}, \quad (5)$$

for $i = 1, 2, 3$;

Where:

r_{hi} = mean harvest for a species, over all sites by respondents to the i^{th} mailing for stratum h;

And ε_{nhi} and ε_{rhi} are normal variates with mean 0 and variance σ_{nh}^2 and σ_{rh}^2 , respectively.

Parameters α_{nh} , α_{rh} , β_{nh} , and β_{rh} were estimated using the method of least squares (Draper and Smith 1981). The set $\{n_4, n_5, \dots, n_I\}$ was estimated from regression (4), and the set $\{r_4, r_5, \dots, r_I\}$ was estimated from regression (5), where I was the simulated mailing at which the following criterion was met (this criterion was not always met, in these cases an infinite series equality was used as described below, see equations (13) and (14)):

$$\sum_{i=1}^3 n_{hi} + \sum_{i=4}^I \hat{n}_{hi} = n_h \quad (6)$$

and where:

\hat{n}_{hi} = Estimated number of households responding to the i^{th} simulated mailing, for $i = 4, 5, \dots, I$, for stratum h

$$= \hat{n}_{hi} = e^{(\alpha_{nh} + \beta_{nh}i)} = e^{(\alpha_{nh})} e^{(\beta_{nh}i)}; \quad (7)$$

n_h = the number of households sampled in stratum h.

The term \hat{R}_h was calculated as follows:

$$\hat{R}_h = \frac{\theta_h Y_{rsh} + (1 - \theta_h) \hat{Y}_{nrh}}{Y_{rsh}}; \quad (8)$$

where:

$$\theta_h = \frac{\sum_{i=1}^3 n_{hi}}{\sum_{i=1}^3 n_{hi} + \sum_{i=4}^I \hat{n}_{hi}} \quad (9)$$

Y_{rsh} = the reported levels of harvest of a particular species over all locations throughout the state for all responding

households within each stratum h

$$= \frac{\sum_{i=1}^3 \sum_{j=1}^{n_{hi}} y_{hij}}{\sum_{i=1}^3 n_{hi}}; \quad (10)$$

\hat{Y}_{nrh} = the simulated estimate for each parameter within each stratum for all simulated mailings for all locations throughout the state

$$= \frac{\sum_{i=4}^I \hat{n}_{hi} \hat{\Gamma}_{hi}}{\sum_{i=4}^I \hat{n}_{hi}}; \text{ and} \quad (11)$$

$\hat{\Gamma}_{hi}$ = simulated mean harvest, for a species, over all sites for nonresponding households, $i=4, 5, \dots, I$ for stratum h

$$= e^{(\alpha_{rh} + \beta_{rh}i)} - 10^{-7} \quad (12)$$

If the criterion defined in equation (6) is not met, then the term “I” is set to infinity, and the following infinite series equality (Gradshteyn and Ryzhick 1980, page 7, equation 0.231.1) is used to calculate the numerator in equation (11):

$$\begin{aligned} \sum_{i=4}^{\infty} \hat{n}_{hi} \hat{\Gamma}_{hi} &= \sum_{i=4}^{\infty} e^{(\alpha_{nh} + \beta_{nh}i)} e^{(\alpha_{rh} + \beta_{rh}i)}; \\ &= \frac{e^{(\alpha_{nh} + \alpha_{rh})}}{1 - e^{(\beta_{nh} + \beta_{rh})}} - e^{(\alpha_{nh} + \alpha_{rh})} \\ &\quad - \sum_{i=1}^3 e^{(\alpha_{nh} + \beta_{nh}i + \alpha_{rh} + \beta_{rh}i)} \end{aligned} \quad (13)$$

Similarly, the denominator in equation (11) is calculated by:

$$\begin{aligned} \sum_{i=4}^{\infty} \hat{n}_{hi} &= \sum_{i=4}^{\infty} e^{(\alpha_{nh} + \beta_{nh}i)}; \\ &= \frac{e^{\alpha_{nh}}}{1 - e^{\beta_{nh}}} - e^{\alpha_{nh}} \\ &\quad - \sum_{i=1}^3 e^{(\alpha_{nh} + \beta_{nh}i)} \end{aligned} \quad (14)$$

Due to relatively few responses for the Canada and other foreign strata, respondents to these strata were pooled with the other United States stratum (and hence comprised of all non-Alaskan residents) when calculating the nonresponse ratio factors (i.e., \hat{R}_h).

Confidence intervals for mail survey estimates used for comparisons to onsite creel survey estimates (see Appendix A109) were calculated using the percentile method of bootstrap resampling (Efron and Tibshirani 1993) with 1,000 replications. Standard errors for harvest estimates were also calculated using the bootstrap resampling procedure.

Appendix A103 includes the number of responses for each site for which estimates are included in this report.

The following guidelines (Mills and Howe 1992) provide a basis for evaluating the utility of statewide survey estimates:

- Other than to document that sport fishing occurred, estimates based on fewer than 12 responses should not be used,
- Estimates based on 12 to 29 responses can be useful in indicating relative orders of magnitude and for assessing long-term trends,
- Estimates based on 30 or more responses are generally useable.

Appendix A103 includes the number of responses for each site for which estimates are included in this report.

RESULTS

A full text Adobe PDF file of this report, as well as summaries of 1999 and prior-year estimates, is available via the division's Internet site under the Publications section:

<http://www.sf.adfg.state.ak.us/statewide/divreports/html/intersearch.cfm>

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>

PARTICIPATION

In 1999 an estimated 425,979 anglers fished 2,499,152 days (Appendix A7). About 48% of the anglers were Alaska residents who accounted for 67% of the total days fished. Nonresident participation in terms of anglers was highest in Southeast (71.4%) and lowest in the Arctic-Yukon-Kuskokwim (AYK) region (29.5%). In Southcentral 52.9% 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 52.6% of the regional total days fished. Resident anglers in Southcentral and AYK accounted for about 70% and 79% of total regional days fished, respectively (Appendix A7).

Between 1996 and 1999 total anglers has declined slightly (Appendix A8) due to decreases in resident angler participation. In contrast, angler-days fished has increased between 1996 and 1999 (Appendix A12) with most of the increase occurring in Southcentral.

HARVEST

The 3,093,608 fish harvested in 1999 (Appendix A14) included 773,758 razor clams *Siliqua patula* and 108,145 smelt and capelin Osmeridae. Of the remaining 2,211,705 harvested fish, 1,396,847 (63%) were anadromous (sea-run) salmon *Oncorhynchus*, 332,657 (15%) were Pacific halibut *Hippoglossus stenolepis*, 120,228 (5%) were rockfish *Sebastes*, 132,481 (6%) were rainbow trout *Oncorhynchus mykiss*, 70,962 (3%) were Dolly Varden *Salvelinus malma* and Arctic char *Salvelinus alpinus*, 37,252 (2%) were Arctic grayling *Thymallus arcticus*, and 29,156 (1%) were landlocked salmon (chinook salmon *Oncorhynchus tshawytscha*, coho salmon *Oncorhynchus kisutch*, and kokanee *Oncorhynchus nerka*).

The 1999 total anadromous salmon harvest of 1,396,847 included 184,296 chinook salmon, 632,829 coho salmon, 377,483 sockeye salmon, 177,295 pink salmon *Oncorhynchus gorbuscha*, and 24,944 chum salmon *Oncorhynchus keta* (Appendix A14). The marine salmon harvest total of 707,414 included 89,948 chinook salmon, 432,794 coho salmon, 28,387 sockeye salmon, 142,947 pink salmon, and 13,338 chum salmon (Appendix A15). The freshwater total of 689,443 anadromous salmon included 94,348 chinook salmon, 200,035 coho salmon, 349,096 sockeye salmon, 34,348 pink salmon, and 11,606 chum salmon (Appendix A16). Regionally, 531,168 anadromous salmon were harvested in Southeast Alaska (Appendix A17), 828,640 in Southcentral (Appendix A18), and 37,039 in the Arctic-Yukon-Kuskokwim area (Appendix A19).

Harvest estimates for 1999 are tabulated by region, area, fishery, and species in Appendix A.

CATCH

The catch of 7,135,870 fish in 1999 (Appendix A14) included 773,758 razor clams and 113,181 smelt. Of the remaining 6,248,931 fish caught, 999,540 (16%) were sea-run coho salmon, 716,823 (11%) were pink salmon, 561,213 (9%) were Pacific halibut, 664,224 (11%) were sockeye salmon, 883,235 (14%) were rainbow trout, 497,530 (8%) were Arctic grayling, 506,693 (8%) were Dolly Varden and Arctic char, 501,260 (8%) were chinook salmon, 290,658 (5%) were rockfish, and 207,558 (3%) were chum salmon.

DISCUSSION

Statewide and regional comparisons of original and revised 1996-1998 and 1999 harvest estimates are presented by species in Tables 2-5. 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 2).

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 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 1999 mail survey compared favorably with estimates from onsite creel surveys (Appendix A109). The onsite and mail survey estimates for the salmon fisheries of the Sitka marine boat, Juneau Marine boat, Situk River, and Gastineau Hatchery roadside were not

Table 2.-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	
Participation										
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
Salmon Species										
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
Other Species										
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 3.-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	
Participation										
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
Salmon Species										
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
Other Species										
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 4.-Original and revised 1996-1998 and 1999 Southcentral 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	
Participation										
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
Salmon Species										
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
Other Species										
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 5.-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	
Participation										
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
Salmon Species										
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
Other Species										
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

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 2000).

The individual post-stratified estimates of chinook salmon harvest for the Kenai River as reported in the comparison table (Appendix A109), 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. If the type of discrepancy noted in 1999 continues in future years, we recommend discontinuing the practice of breaking fisheries into early vs. late categories in the mail survey as the resulting estimates would not be accurate. Yet total Kenai River chinook salmon harvest for the onsite survey (17,561) was still greater than that obtained by the mail survey (12,982). The onsite and mail survey estimates for 2000 will be closely examined in an attempt to explain the discrepancies noted above.

Over the past twenty-three 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. A 2000 mail survey similar to this year's is in progress.

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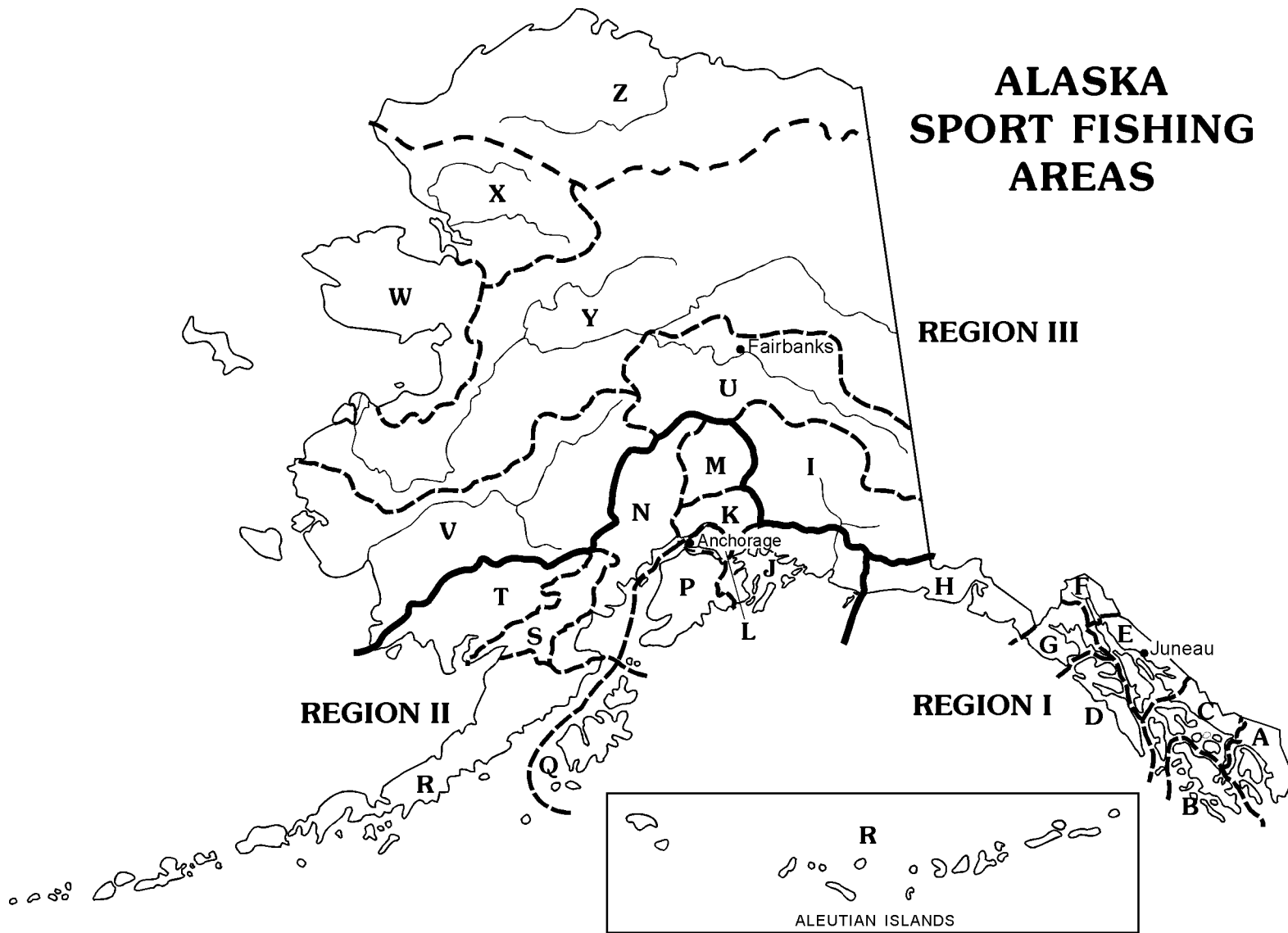
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APPENDIX A. TABLES AND FIGURES



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

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

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 North Slope Drainages

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>	

Appendix A4.-Response to the supplementary Alaska sport fish survey mailing, 1999.

Mailing^a	Mailing 1	Mailing 2	Mailing 3	Total
Number Mailed	25,003	17,744	14,821	57,568
Number Returned Nondeliverable ^b				1,629
Number not Returned	17,744	14,821	13,090	45,655
Responses				
Number ^b	6,074	2,664	1,546	10,284
Percent of 1st Mailing not Returned as Nondeliverable				44.0%

^a Resident surveys were mailed 10/28/1999, 1/7/2000, and 3/6/2000.

Nonresident surveys were mailed 11/22/1999, 1/24/2000, and 3/29/2000.

^b 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, 1999.

	Mailing 1	Mailing 2	Mailing 3	Total
Mailing^a				
Number Mailed	22,002	14,863	12,022	48,887
Number Returned Nondeliverable ^b				1,303
Number not Returned	14,863	12,022	10,438	
Responses				
Number ^b	6,230	2,621	1,410	10,261
Percent of 1st Mailing not Returned as Nondeliverable				49.6%

^a Resident surveys were mailed 10/28/1999, 1/7/2000, and 3/6/2000.

Nonresident surveys were mailed 11/22/1999, 1/24/2000, and 3/29/2000.

^b 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, 1961-1999.

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
1999	172,717	39.1	269,153	60.9	441,870

Appendix A7.-Statewide and regional participation in Alaska sport fishing by residency, 1994-1999.

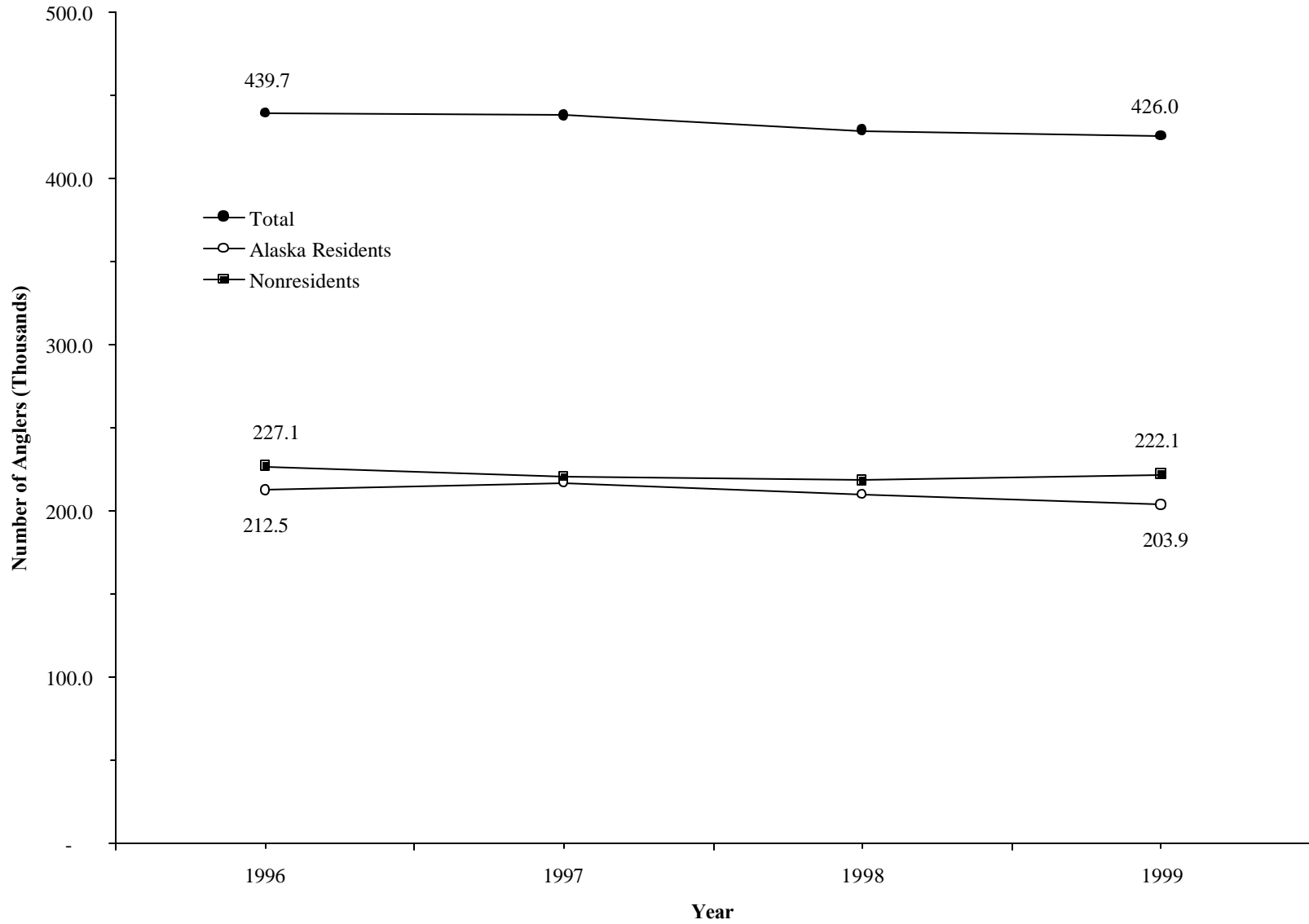
Region	1994				1995				Total	
	Residents of Alaska		Nonresidents of Alaska		Residents of Alaska		Nonresidents of Alaska			
	Number	Percent	Number	Percent	Number	Percent	Number	Percent		
Anglers										
SE ^a	36,041	31.5	78,198	68.5	114,239	36,001	33.3	71,958	66.7	107,959
SC ^b	194,207	57.6	142,665	42.4	336,872	187,45	54.7	155,374	45.3	342,826
AYK ^c	33,102	78.0	9,346	22.0	42,448	41,181	76.0	13,003	24.0	54,184
TOTAL	241,438	52.5	218,766	47.5	460,204	240,56	51.2	228,870	48.8	469,436
Days Fished										
SE ^a	259,109	47.7	283,830	52.3	542,939	271,06	51.0	260,921	49.0	531,990
SC ^b	1,318,82	67.0	648,160	33.0	1,966,985	1,308,1	65.9	677,413	34.1	1,985,539
AYK ^c	176,627	84.1	33,360	15.9	209,987	222,72	82.4	47,421	17.6	270,141
TOTAL	1,754,56	64.5	965,350	35.5	2,719,911	1,801,9	64.6	985,755	35.4	2,787,670
Region	1996				1997				Total	
	Residents of Alaska		Nonresidents of Alaska		Residents of Alaska		Nonresidents of Alaska			
	Number	Percent	Number	Percent	Number	Percent	Number	Percent		
Anglers										
SE ^a	30,390	28.7	75,457	71.3	105,847	35,998	32.6	74,397	67.4	110,395
SC ^{bd}	167,553	52.7	150,364	47.3	317,917	164,88	53.8	141,736	46.2	306,619
AYK ^{cd}	34,150	73.1	12,539	26.9	46,689	43,325	70.3	18,270	29.7	61,595
TOTAL	212,510	48.3	227,141	51.7	439,651	217,37	49.6	220,738	50.4	438,117
Days Fished										
SE ^a	193,035	52.1	177,384	47.9	370,419	222,15	50.5	217,524	49.5	439,675
SC ^{bd}	966,155	67.3	468,788	32.7	1,434,943	912,92	65.2	488,057	34.8	1,400,983
AYK ^{cd}	168,259	83.6	32,907	16.4	201,166	181,32	75.9	57,536	24.1	238,856
TOTAL	1,327,44	66.2	679,079	33.8	2,006,528	1,316,3	63.3	763,117	36.7	2,079,514
Region	1998				1999				Total	
	Residents of Alaska		Nonresidents of Alaska		Residents of Alaska		Nonresidents of Alaska			
	Number	Percent	Number	Percent	Number	Percent	Number	Percent		
Anglers										
SE ^a	32,207	30.2	74,418	69.8	106,625	33,116	28.6	82,647	71.4	115,763
SC ^{bd}	159,216	53.3	139,297	46.7	298,513	151,20	52.9	134,893	47.1	286,098
AYK ^{cd}	42,716	67.8	20,273	32.2	62,989	41,857	70.5	17,549	29.5	59,406
TOTAL	210,364	49.0	218,627	51.0	428,991	203,87	47.9	222,104	52.1	425,979
Days Fished										
SE ^a	196,445	53.0	174,208	47.0	370,653	281,37	52.6	253,292	47.4	534,664
SC ^{bd}	836,413	66.5	422,069	33.5	1,258,482	1,154,4	69.5	505,507	30.5	1,659,966
AYK ^{cd}	174,268	76.5	53,573	23.5	227,841	239,29	78.6	65,224	21.4	304,522
TOTAL	1,207,12	65.0	649,850	35.0	1,856,976	1,675,1	67.0	824,023	33.0	2,499,152

^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, 1996-1999.

Appendix A9.-Number of anglers who sport fished in Alaska by area of residence, 1990-1999.

	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
Alaska										
Southeast	38,851	35,389	35,837	33,132	32,646	33,122	26,027	29,853	26,780	28,918
Upper Copper-Susitna River	1,528	1,490	1,589	1,339	1,204	1,659	1,238	1,755	1,613	1,641
Prince William Sound	4,237	3,836	3,944	4,177	3,857	4,184	3,868	4,013	4,019	3,786
Kenai Peninsula	24,316	24,869	24,402	24,646	29,457	28,857	23,369	25,694	25,436	22,182
West Cook Inlet-Lower Susitna Drainage	126,049	131,266	127,214	122,916	129,818	118,700	106,151	108,091	101,646	99,001
Kodiak	8,711	7,792	6,957	6,854	6,629	5,420	5,812	6,067	7,321	5,986
Bristol Bay	4,133	5,735	5,131	4,847	2,628	3,208	2,681	1,907	2,200	2,446
Arctic-Yukon-Kuskokwim	43,247	41,739	41,034	39,541	35,199	45,416	37,852	33,564	34,939	35,736
Unknown Alaska							5,512	6,435	6,410	4,179
Total Residents	251,072	252,116	246,108	237,452	241,438	240,566	212,510	217,379	210,364	203,875
Percent	59.1%	59.3%	57.4%	55.7%	52.5%	51.2%	48.3%	49.6%	49.0%	47.9%
Other Than Alaska										
Other United States	160,265	158,182	168,741	172,700	202,318	211,728	212,022	205,624	205,040	207,698
Foreign	13,536	14,727	13,919	16,362	16,448	17,142	15,119	15,114	13,587	14,406
Total Nonresidents	173,801	172,909	182,660	189,062	218,766	228,870	227,141	220,738	218,627	222,104
Percent	40.9%	40.7%	42.6%	44.3%	47.5%	48.8%	51.7%	50.4%	51.0%	52.1%
TOTAL	424,873	425,025	428,768	426,514	460,204	469,436	439,651	438,117	428,991	425,979

Appendix A10.-Number of anglers by Alaska region and area fished, 1989-1999.

Area Fished	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
Southeast											
Ketchikan	19,810	26,158	21,854	22,711	20,464	27,090	22,738	24,000	23,914	22,441	26,647
Prince of Wales Island	8,873	10,498	9,634	10,446	14,355	16,134	14,643	14,292	12,871	12,667	15,397
Kake, Petersburg, Wrangell, Stikine	9,753	12,452	9,830	12,241	10,238	13,166	10,368	9,330	9,575	8,623	9,536
Sitka	12,506	16,706	18,567	21,465	20,931	28,922	26,362	23,930	26,467	30,096	27,961
Juneau	26,280	26,830	28,415	30,315	25,749	27,617	30,316	28,160	29,708	26,487	28,405
Haines-Skagway	8,680	13,720	8,615	4,861	8,754	7,072	7,713	7,410	7,504	6,682	6,979
Glacier Bay	3,548	3,069	4,929	4,113	5,184	5,110	6,961	5,417	7,028	5,188	6,103
Yakutat	3,068	3,440	3,206	3,552	3,588	4,590	4,560	5,403	6,613	6,118	6,901
Total ^a	82,111	101,499	92,914	97,451	96,472	114,239	107,959	105,847	110,395	106,625	115,763
Southcentral											
Upper Copper/Upper Susitna Drainages	24,535	26,302	28,373	26,276	29,312	28,323	30,056	27,620			
Prince William Sound	26,238	37,464	37,380	33,817	33,600	37,147	46,435	37,930	41,268	40,525	36,646
Knik Arm Drainage	51,951	50,887	50,186	48,065	40,797	43,576	36,604	32,404	32,375	29,377	30,609
Anchorage	32,286	32,976	31,612	37,993	35,307	35,098	35,948	35,897	33,309	31,278	28,557
East Susitna River Drainage	46,833	47,998	47,561	57,762	50,615	44,448	39,094	37,480	38,871	38,827	40,661
West Cook Inlet-West Susitna River Drainages	39,187	41,005	41,440	39,564	40,641	39,463	27,235	25,544	25,874	27,025	28,323
Kenai Peninsula	197,352	209,376	210,295	210,021	219,913	229,030	231,923	214,502	207,377	196,258	183,056
Kodiak	12,849	13,714	13,994	13,362	15,323	16,906	14,693	13,748	14,882	16,175	15,565
Naknek River Drainage-Alaska Peninsula	8,313	10,896	11,521	10,446	9,160	8,355	10,394	7,861	8,943	8,974	8,329
Kvichak River Drainage	6,190	6,931	9,287	8,588	10,075	8,635	10,472	8,051	8,106	8,061	7,194
Nushagak	4,833	5,312	6,921	5,771	6,097	8,160	7,925	8,411	6,954	8,270	7,918
Total ^{ab}	292,524	309,770	318,864	319,350	326,718	336,872	342,826	317,917	306,619	298,513	286,098
Arctic-Yukon-Kuskokwim											
Upper Copper/Upper Susitna Drainages									24,893	26,044	21,814
Tanana River Drainages	38,731	38,031	34,672	31,586	33,343	32,334	41,654	35,362	31,612	31,129	30,833
Kuskokwim-Goodnews Drainages	3,688	2,691	3,146	3,041	3,257	3,948	3,699	4,308	5,693	5,721	5,219
Seward Peninsula-Norton Sound Drainages	3,052	3,233	3,776	3,540	3,134	3,016	3,719	2,958	2,773	3,206	3,124
Northwest Alaska Drainages	1,063	1,008	1,795	1,421	1,575	1,100	1,957	1,407	824	1,089	1,313
Yukon River Drainages	3,989	4,162	4,047	4,313	3,800	3,714	5,477	3,877	3,867	3,841	4,285
North Slope Brooks Range Drainages	1,423	1,158	1,556	1,758	1,362	1,253	1,612	1,259	1,308	1,300	1,044
Total ^{ab}	48,705	47,799	46,426	42,592	44,004	42,448	54,184	46,689	61,595	62,989	59,406
Alaska Total^a	391,308	424,873	425,025	428,768	426,514	460,204	469,436	439,651	438,117	428,991	425,979

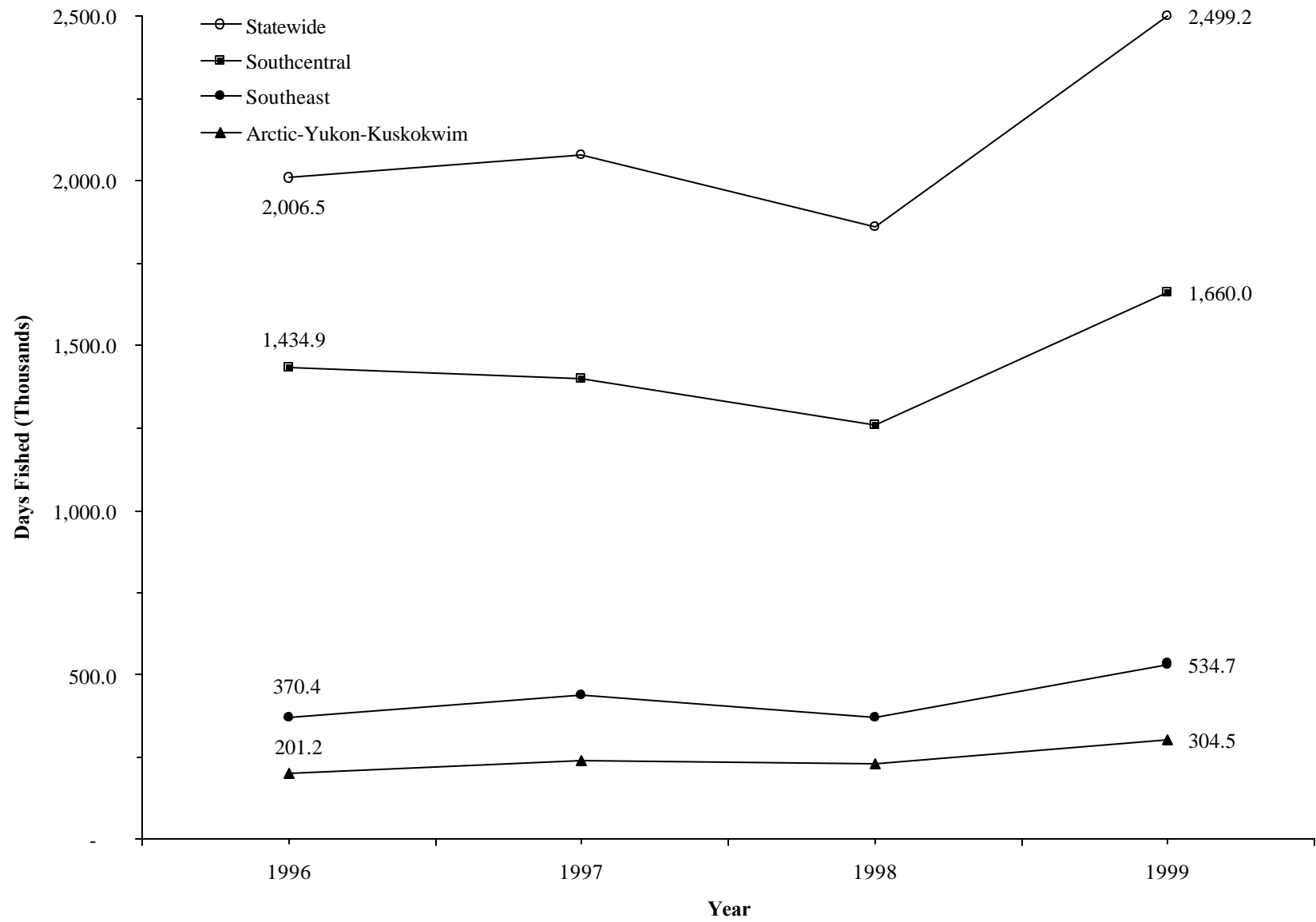
^a Statewide and regional angler totals do not equal regional or area sums because some anglers fished in more than one area and in more than one region.

^b 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, 1989-1999.

Area Fished	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
Southeast											
Ketchikan	60,937	71,338	57,043	61,790	55,221	66,096	54,160	48,600	45,027	37,199	51,867
Prince of Wales Island	33,555	36,648	29,452	30,655	39,226	45,242	38,605	30,498	36,413	34,857	45,661
Kake, Petersburg, Wrangell, Stikine	34,154	50,101	33,879	44,836	35,267	44,823	37,723	25,259	25,930	22,294	31,677
Sitka	48,841	50,453	48,282	61,044	58,500	73,231	67,050	44,863	58,286	49,263	60,957
Juneau	100,382	93,184	91,035	122,282	97,322	108,370	116,579	77,493	82,392	71,969	86,850
Haines-Skagway	28,128	41,182	24,269	20,925	27,428	21,799	23,567	17,710	20,607	12,144	16,818
Glacier Bay	6,635	5,826	14,140	10,778	11,034	11,189	16,151	10,101	14,694	8,966	12,479
Yakutat	8,038	8,208	9,476	9,722	11,995	12,932	12,286	12,046	18,815	13,591	17,153
Total	320,670	356,940	307,576	362,032	335,993	383,682	366,121	266,570	302,164	250,283	323,462
Southcentral											
Upper Copper/Upper Susitna Drainages	36,765	32,760	39,559	39,600	47,561	48,612	56,001	35,056			
Prince William Sound	59,777	76,491	70,309	71,914	66,463	77,485	82,498	61,661	60,511	53,715	62,481
Knik Arm Drainage	127,650	121,973	114,089	110,233	93,841	111,100	96,517	68,913	71,018	58,386	69,639
Anchorage	102,826	118,977	103,157	132,220	133,643	129,932	158,523	111,809	114,997	104,585	105,057
East Susitna River Drainage	77,813	85,044	80,540	111,536	97,101	83,354	70,847	58,791	56,811	60,433	75,869
West Cook Inlet-West Susitna River Drainages	72,349	67,789	65,589	66,737	68,174	71,826	48,126	34,871	36,962	31,332	46,295
Kenai Peninsula	631,869	696,988	616,247	684,519	660,941	712,711	715,186	502,639	492,626	408,010	490,118
Kodiak	74,170	69,821	70,115	64,700	69,747	68,928	62,140	54,082	54,199	56,699	63,610
Naknek River Drainage-Alaska Peninsula	35,393	54,401	51,239	41,209	33,273	30,148	31,962	24,399	27,217	22,706	30,275
Kvichak River Drainage	12,034	16,983	18,912	18,308	23,726	21,692	21,042	14,439	16,997	14,046	18,319
Nushagak	10,335	13,034	17,000	15,080	17,548	21,145	20,954	16,165	16,311	17,036	15,172
Total ^a	1,240,98	1,354,26	1,246,75	1,356,05	1,312,01	1,376,93	1,363,79	982,825	947,649	826,948	976,835
Arctic-Yukon-Kuskokwim											
Upper Copper/Upper Susitna Drainages									30,951	30,528	36,780
Tanana River Drainages	135,400	131,831	113,247	94,265	126,733	118,052	154,458	117,911	91,122	81,335	94,996
Kuskokwim-Goodnews Drainages	7,946	5,263	6,731	6,078	6,046	6,865	7,175	6,365	10,462	13,695	7,102
Seward Peninsula-Norton Sound Drainages	13,289	12,986	18,091	14,843	14,044	12,798	14,677	11,240	9,678	8,171	8,171
Northwest Alaska Drainages	2,124	1,464	3,741	3,361	3,279	3,221	5,423	2,477	1,876	1,677	2,431
Yukon River Drainages	7,640	9,487	6,332	7,604	7,911	6,789	10,942	4,801	6,028	5,114	5,511
North Slope Brooks Range Drainages	3,152	2,521	4,084	3,783	3,395	4,308	3,549	3,000	3,032	2,068	3,344
Total ^a	169,551	163,552	152,226	129,934	161,408	152,033	196,224	145,794	153,149	142,588	158,335
Alaska Total	1,731,20	1,874,75	1,706,55	1,848,02	1,809,41	1,912,64	1,926,14	1,395,18	1,402,96	1,219,81	1,458,63

^a 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, 1996-1999.

Appendix A13.-Number of angler-days fished in Alaska and percentage by region and area, 1989-1999.

Area Fished	1989		1990		1991		1992		1993		1994	
	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent
Southeast												
Ketchikan	92,647	4.1	91,127	3.7	98,284	4.0	84,482	3.3	77,145	3.0	90,363	3.3
Prince of Wales Island	50,659	2.2	50,214	2.0	47,297	1.9	44,470	1.8	62,544	2.4	69,572	2.6
Kake, Petersburg, Wrangell, Stikine	53,955	2.4	59,965	2.4	48,013	2.0	56,306	2.2	47,382	1.9	63,584	2.3
Sitka	59,230	2.6	61,906	2.5	68,193	2.8	78,281	3.1	74,944	2.9	107,993	4.0
Juneau	115,360	5.1	122,045	5.0	113,913	4.6	149,382	5.9	133,896	5.2	137,856	5.1
Haines-Skagway	48,018	2.1	56,746	2.3	39,624	1.6	25,896	1.0	41,655	1.6	32,592	1.2
Glacier Bay	8,895	0.4	7,857	0.3	21,965	0.9	15,279	0.6	15,054	0.6	18,219	0.7
Yakutat	12,142	0.5	12,685	0.5	17,062	0.7	14,496	0.6	18,583	0.7	22,760	0.8
Total	440,906	19.5	462,545	18.9	454,351	18.5	468,592	18.4	471,203	18.4	542,939	20.0
Southcentral												
Upper Copper/Upper Susitna Drainages	52,262	2.3	50,791	2.1	64,207	2.6	72,052	2.8	77,870	3.0	85,520	3.1
Prince William Sound	95,295	4.2	105,739	4.3	113,115	4.6	113,443	4.5	104,601	4.1	122,330	4.5
Knik Arm Drainage	146,912	6.5	142,884	5.8	146,605	6.0	141,825	5.6	118,214	4.6	143,372	5.3
Anchorage	107,613	4.8	125,849	5.1	117,780	4.8	141,571	5.6	143,492	5.6	142,277	5.2
East Susitna River Drainage	96,864	4.3	101,917	4.2	113,178	4.6	149,484	5.9	128,382	5.0	114,533	4.2
West Cook Inlet-West Susitna River	115,054	5.1	110,927	4.5	121,505	4.9	116,360	4.6	129,165	5.0	125,529	4.6
Kenai Peninsula	799,409	35.3	896,360	36.5	869,715	35.4	945,272	37.2	946,252	37.0	1,003,847	36.9
Kodiak	86,342	3.8	81,603	3.3	96,481	3.9	84,777	3.3	93,320	3.6	99,132	3.6
Naknek River Drainage-Alaska Peninsula	45,114	2.0	67,192	2.7	69,010	2.8	61,415	2.4	51,132	2.0	45,920	1.7
Kvichak River Drainage	17,854	0.8	30,857	1.3	28,553	1.2	34,876	1.4	41,697	1.6	39,141	1.4
Nushagak	20,828	0.9	30,991	1.3	41,906	1.7	28,855	1.1	33,108	1.3	45,384	1.7
Total ^a	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	1,966,985	72.3
Arctic-Yukon-Kuskokwim												
Upper Copper/Upper Susitna Drainages												
Tanana River Drainages	185,715	8.2	184,887	7.5	155,662	6.3	120,848	4.8	160,117	6.3	148,633	5.5
Kuskokwim-Goodnews Drainages	16,457	0.7	15,858	0.6	13,055	0.5	14,404	0.6	14,505	0.6	18,117	0.7
Seward Peninsula-Norton Sound Drainages	17,692	0.8	21,799	0.9	23,622	1.0	22,684	0.9	18,930	0.7	18,922	0.7
Northwest Alaska Drainages	4,932	0.2	3,782	0.2	9,543	0.4	6,145	0.2	7,809	0.3	6,036	0.2
Yukon River Drainages	10,712	0.5	15,539	0.6	10,749	0.4	12,831	0.5	14,011	0.5	12,872	0.5
North Slope Brooks Range Drainages	4,118	0.2	3,764	0.2	7,291	0.3	4,940	0.2	5,600	0.2	5,407	0.2
Total ^a	239,626	10.6	245,629	10.0	219,922	9.0	181,852	7.2	220,972	8.6	209,987	7.7
Alaska Total	2,264,079	100.0	2,453,284	100.0	2,456,328	100.0	2,540,374	100.0	2,559,408	100.0	2,719,911	100.0

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Appendix A13.-Page 2 of 2.

Area Fished	1995		1996		1997		1998		1999	
	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent
Southeast										
Ketchikan	76,580	2.7	71,526	3.6	68,203	3.3	55,938	3.0	88,496	3.5
Prince of Wales Island	60,552	2.2	44,795	2.2	52,497	2.5	48,634	2.6	75,857	3.0
Kake, Petersburg, Wrangell, Stikine	52,755	1.9	32,718	1.6	37,994	1.8	32,637	1.8	51,185	2.0
Sitka	101,138	3.6	64,982	3.2	88,565	4.3	77,434	4.2	105,157	4.2
Juneau	161,241	5.8	96,907	4.8	109,718	5.3	97,209	5.2	130,375	5.2
Haines-Skagway	34,484	1.2	25,152	1.3	29,645	1.4	19,413	1.0	27,300	1.1
Glacier Bay	25,314	0.9	14,436	0.7	23,170	1.1	14,258	0.8	22,907	0.9
Yakutat	19,926	0.7	19,903	1.0	29,883	1.4	25,130	1.4	33,387	1.3
Total	531,990	19.1	370,419	18.5	439,675	21.1	370,653	20.0	534,664	21.4
Southcentral										
Upper Copper/Upper Susitna Drainages	102,951	3.7	64,407	3.2						
Prince William Sound	138,194	5.0	97,448	4.9	101,079	4.9	92,503	5.0	122,447	4.9
Knik Arm Drainage	126,154	4.5	90,990	4.5	95,730	4.6	78,218	4.2	112,642	4.5
Anchorage	176,401	6.3	126,325	6.3	139,549	6.7	125,513	6.8	146,789	5.9
East Susitna River Drainage	102,686	3.7	83,227	4.1	85,228	4.1	89,014	4.8	133,310	5.3
West Cook Inlet-West Susitna River	79,134	2.8	58,940	2.9	65,145	3.1	57,531	3.1	91,964	3.7
Kenai Peninsula	1,043,493	37.4	738,712	36.8	732,938	35.2	638,161	34.4	818,865	32.8
Kodiak	85,529	3.1	76,879	3.8	78,355	3.8	78,688	4.2	110,767	4.4
Naknek River Drainage-Alaska Peninsula	44,119	1.6	34,216	1.7	40,551	2.0	34,748	1.9	51,291	2.1
Kvichak River Drainage	44,463	1.6	26,578	1.3	32,205	1.5	28,042	1.5	35,259	1.4
Nushagak	42,415	1.5	37,221	1.9	30,203	1.5	36,064	1.9	36,632	1.5
Total ^a	1,985,539	71.2	1,434,943	71.5	1,400,983	67.4	1,258,482	67.8	1,659,966	66.4
Arctic-Yukon-Kuskokwim										
Upper Copper/Upper Susitna Drainages					56,257	2.7	56,706	3.1	77,619	3.1
Tanana River Drainages	201,389	7.2	150,227	7.5	119,699	5.8	112,025	6.0	160,427	6.4
Kuskokwim-Goodnews Drainages	16,289	0.6	16,420	0.8	27,318	1.3	27,913	1.5	26,563	1.1
Seward Peninsula-Norton Sound Drainages	19,647	0.7	13,783	0.7	13,850	0.7	13,616	0.7	15,006	0.6
Northwest Alaska Drainages	8,495	0.3	5,571	0.3	3,729	0.2	3,801	0.2	6,771	0.3
Yukon River Drainages	18,677	0.7	10,678	0.5	12,725	0.6	10,127	0.5	12,906	0.5
North Slope Brooks Range Drainages	5,644	0.2	4,487	0.2	5,278	0.3	3,653	0.2	5,230	0.2
Total ^a	270,141	9.7	201,166	10.0	238,856	11.5	227,841	12.3	304,522	12.2
Alaska Total	2,787,670	100.0	2,006,528	100.0	2,079,514	100.0	1,856,976	100.0	2,499,152	100.0

^a 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, 1989-1999, and catch by species, 1999.

Species	Harvest											Catch
	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	1999
SALMON SPECIES:												
Chinook	122,737	123,908	150,420	153,919	210,833	176,870	156,507	163,569	185,175	144,098	184,296	501,260
Sea-run Coho	338,195	325,936	389,569	345,513	412,487	502,127	368,631	555,196	444,525	501,935	632,829	999,540
Landlocked Coho/Chinook	46,697	37,831	51,799	46,843	54,182	41,744	22,326	54,442	31,678	34,767	29,105	66,818
Sockeye	436,871	239,118	327,047	372,752	283,661	251,605	237,230	319,174	318,839	339,385	377,483	664,224
Kokanee	2,727	2,071	6,276	2,478	4,203	747	209	76	202	638	51	51
Pink	164,778	205,602	151,316	149,372	124,582	144,140	122,314	167,804	111,671	145,589	177,295	716,823
Chum	34,647	14,525	18,209	17,299	20,519	21,877	26,646	38,565	31,348	33,725	24,944	207,558
OTHER SPECIES:												
Steelhead	6,387	5,645	5,109	3,149	3,818	2,346	1,037	412	334	390	675	35,159
Rainbow Trout	209,961	191,809	205,642	139,973	136,681	112,261	112,681	133,229	127,661	102,403	132,481	883,235
Cutthroat Trout	20,372	16,183	10,088	13,972	16,291	7,088	4,669	5,653	4,569	5,569	5,053	33,149
Brook Trout	887	450	477	1,026	762	481	274	223	167	10	112	1,294
Lake Trout	17,070	12,602	13,772	12,525	13,094	11,374	8,412	9,086	7,486	5,985	9,948	45,910
Dolly Varden/Arctic Char	136,127	132,553	142,594	97,071	100,428	73,533	69,657	89,089	81,576	70,864	70,962	506,693
Arctic Grayling	105,469	64,814	82,831	45,073	49,740	63,443	46,168	46,943	45,844	38,445	37,252	497,530
Northern Pike	21,659	15,985	29,611	18,616	19,366	25,558	19,006	23,043	16,603	15,617	19,766	89,092
Whitefish	24,337	15,595	6,828	6,738	4,223	4,454	2,863	2,047	4,223	4,352	1,824	5,273
Burbot	9,268	10,577	4,882	7,245	9,858	10,868	7,128	5,841	12,189	6,882	6,903	10,591
Sheefish	2,306	750	2,256	2,933	1,619	1,511	2,200	1,502	1,761	815	1,157	7,507
Smelt	207,826	194,068	111,834	148,540	61,495	106,127	52,905	60,867	77,491	80,329	108,145	113,181
Halibut	229,016	247,202	266,523	264,943	313,147	329,046	325,188	350,220	380,256	350,464	332,657	561,213
Shark	0	0	0	0	0	0	0	127	1,391	609	516	5,927
Rockfish	86,776	62,572	67,263	86,523	82,625	98,971	75,613	79,050	88,220	87,458	120,228	290,658
Lingcod	0	0	23,049	28,894	22,857	27,878	20,192	24,362	28,305	25,312	30,565	62,946
Pacific Cod	0	0	0	0	0	0	0	1,911	8,469	5,252	3,471	16,957
Razor Clams	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	773,758	773,758
Other Fish	71,791	75,564	36,598	31,511	31,290	18,612	28,178	11,610	13,034	17,008	12,132	39,523
Total	3,213,867	3,033,301	3,311,513	3,234,048	2,989,720	3,350,336	2,909,979	2,988,024	2,873,020	2,678,120	3,093,608	7,135,870

Appendix A15.-Alaska saltwater sport fish harvest by species, 1989-1999, and catch by species, 1999.

Species	Harvest											Catch
	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	1999
SALMON SPECIES:												
Chinook	44,366	63,997	73,662	62,290	82,064	67,325	74,945	78,838	97,093	73,564	89,948	203,611
Sea-run Coho	129,884	165,104	176,056	146,620	195,361	260,314	186,635	334,271	303,340	299,371	432,794	556,748
Landlocked Coho/Chinook	0	0	0	0	0	0	0	0	0	0	0	0
Sockeye	18,131	11,216	12,460	17,047	20,340	16,176	16,237	15,423	17,124	21,995	28,387	38,495
Kokanee	0	0	0	0	0	0	0	0	0	0	0	0
Pink	124,537	126,946	119,591	94,213	98,419	111,366	99,111	117,702	85,420	97,509	142,947	454,631
Chum	13,134	6,287	7,378	7,759	12,170	13,121	12,676	23,342	20,748	23,839	13,338	56,678
OTHER SPECIES:												
Steelhead	2,125	1,420	1,058	1,083	923	512	38	99	15	125	206	1,479
Rainbow Trout	0	0	0	0	0	0	0	0	0	0	0	0
Cutthroat Trout	1,897	1,128	1,410	2,259	2,662	1,518	581	894	798	1,107	733	2,386
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	32,273	32,929	30,481	19,896	19,618	13,999	13,727	16,570	18,419	17,299	13,693	50,251
Arctic Grayling	116	0	0	0	19	141	0	0	0	0	0	11
Northern Pike	0	0	0	0	0	0	0	0	0	0	0	0
Whitefish	408	17	0	18	9	46	0	0	0	0	95	136
Burbot	0	0	0	0	0	0	0	0	0	0	0	0
Sheefish	568	0	0	779	398	382	290	73	277	121	14	64
Smelt	39,424	16,561	10,444	22,435	9,381	13,299	5,982	16,839	19,172	22,299	21,503	22,290
Halibut	229,016	247,202	266,523	264,943	313,147	329,046	325,188	350,220	380,256	350,464	332,657	561,213
Shark	0	0	0	0	0	0	0	127	1,391	609	516	5,927
Rockfish	86,776	62,572	67,263	86,523	82,625	98,971	75,613	79,050	88,220	87,458	120,228	290,658
Lingcod	0	0	23,049	28,894	22,857	27,878	20,192	24,362	28,305	25,312	30,565	62,946
Pacific Cod	0	0	0	0	0	0	0	1,911	8,469	5,252	3,471	16,957
Razor Clams	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	773,758	773,758
Other Fish	71,086	74,378	32,077	28,531	30,117	14,696	26,119	11,039	11,696	14,651	10,112	35,259
Total	1,711,704	1,847,698	2,028,972	2,020,430	1,902,069	2,286,465	2,057,279	1,914,743	1,930,746	1,701,194	2,014,965	3,133,498

Appendix A16.-Alaska freshwater sport fish harvest by species, 1989-1999, and catch by species, 1999.

Species	Harvest											Catch
	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	1999
SALMON SPECIES:												
Chinook	78,371	59,911	76,758	91,629	128,769	109,545	81,562	84,731	88,082	70,534	94,348	297,649
Sea-run Coho	208,311	160,832	213,513	198,893	217,126	241,813	181,996	220,925	141,185	202,564	200,035	442,792
Landlocked Coho/Chinook	46,697	37,831	51,799	46,843	54,182	41,744	22,326	54,442	31,678	34,767	29,105	66,818
Sockeye	418,740	227,902	314,587	355,705	263,321	235,429	220,993	303,751	301,715	317,390	349,096	625,729
Kokanee	2,727	2,071	6,276	2,478	4,203	747	209	76	202	638	51	51
Pink	40,241	78,656	31,725	55,159	26,163	32,774	23,203	50,102	26,251	48,080	34,348	262,192
Chum	21,513	8,238	10,831	9,540	8,349	8,756	13,970	15,223	10,600	9,886	11,606	150,880
OTHER SPECIES:												
Steelhead	4,262	4,225	4,051	2,066	2,895	1,834	999	313	319	265	469	33,680
Rainbow Trout	209,961	191,809	205,642	139,973	136,681	112,261	112,681	133,229	127,661	102,403	132,481	883,235
Cutthroat Trout	18,475	15,055	8,678	11,713	13,629	5,570	4,088	4,759	3,771	4,462	4,320	30,763
Brook Trout	887	450	477	1,026	762	481	274	223	167	10	112	1,294
Lake Trout	17,070	12,602	13,772	12,525	13,094	11,374	8,412	9,086	7,486	5,985	9,948	45,910
Dolly Varden/Arctic Char	103,854	99,624	112,113	77,175	80,810	59,534	55,930	72,519	63,157	53,565	57,269	456,442
Arctic Grayling	105,353	64,814	82,831	45,073	49,721	63,302	46,168	46,943	45,844	38,445	37,252	497,519
Northern Pike	21,659	15,985	29,611	18,616	19,366	25,558	19,006	23,043	16,603	15,617	19,766	89,092
Whitefish	23,929	15,578	6,828	6,720	4,214	4,408	2,863	2,047	4,223	4,352	1,729	5,137
Burbot	9,268	10,577	4,882	7,245	9,858	10,868	7,128	5,841	12,189	6,882	6,903	10,591
Sheefish	1,738	750	2,256	2,154	1,221	1,129	1,910	1,429	1,484	694	1,143	7,443
Smelt	168,402	177,507	101,390	126,105	52,114	92,828	46,923	44,028	58,319	58,030	86,642	90,891
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	705	1,186	4,521	2,980	1,173	3,916	2,059	571	1,338	2,357	2,020	4,264
Total	1,502,163	1,185,603	1,282,541	1,213,618	1,087,651	1,063,871	852,700	1,073,281	942,274	976,926	1,078,643	4,002,372

Appendix A17.-Southeast Alaska sport fish harvest by species, 1989-1999, and catch by species, 1999.

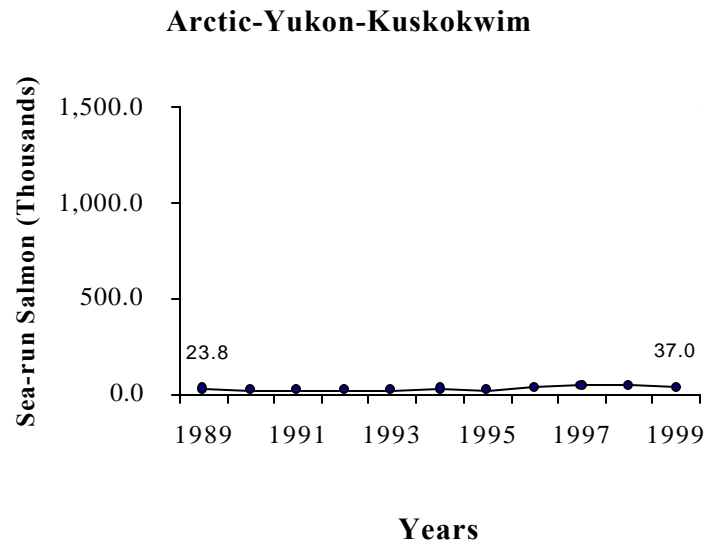
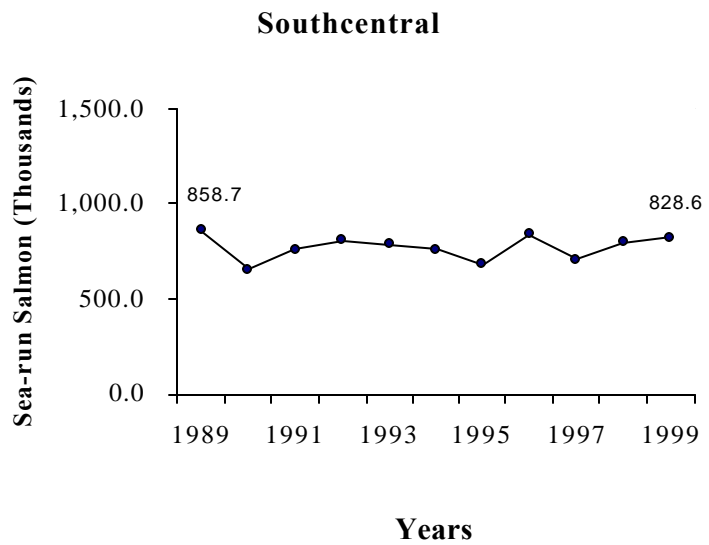
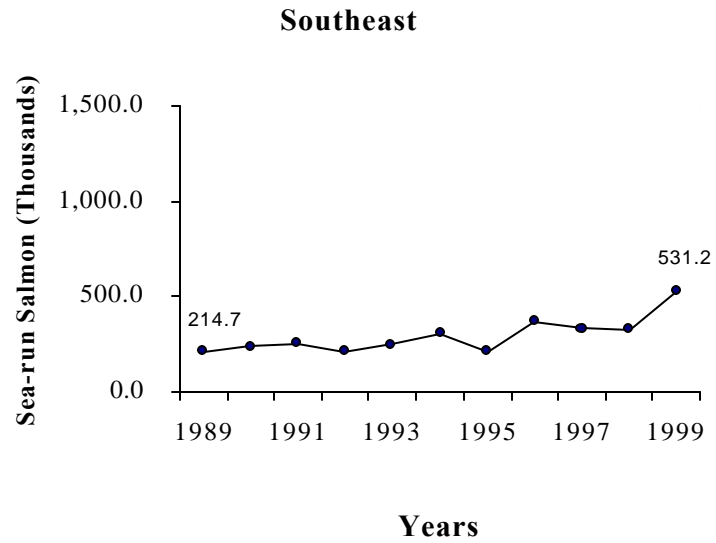
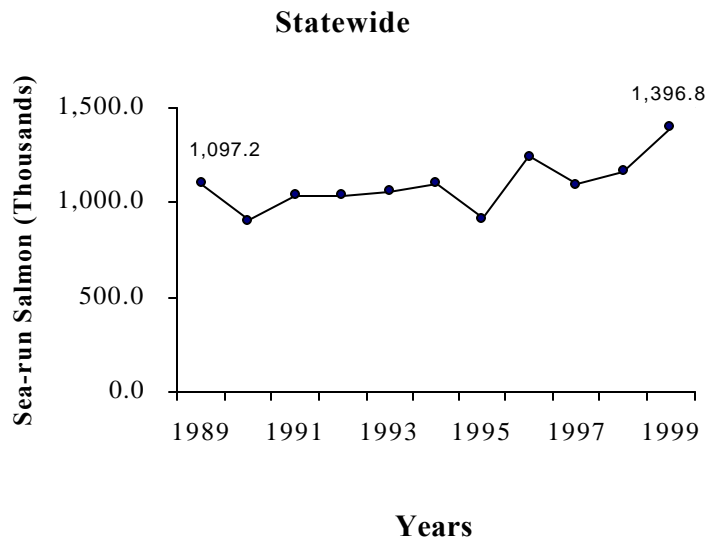
Species	Harvest											Catch 1999
	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	
SALMON SPECIES:												
Chinook	31,071	51,218	60,492	42,892	49,246	42,365	49,667	57,509	71,524	55,013	72,081	181,630
Sea-run Coho	90,789	105,212	123,946	99,939	121,874	191,860	97,128	193,758	163,202	171,395	313,076	449,340
Landlocked Coho/Chinook	528	413	1,222	1,536	1,454	717	48	36	195	249	2,111	2,567
Sockeye	13,114	9,848	9,715	9,318	17,419	13,023	13,491	15,709	21,273	25,450	26,476	43,007
Kokanee	520	99	362	769	206	60	0	76	29	223	51	51
Pink	70,822	65,208	57,859	54,101	51,436	52,263	42,958	85,059	62,549	50,706	107,142	391,274
Chum	8,932	4,962	5,593	6,041	9,380	11,561	11,438	20,196	19,059	21,256	12,393	55,546
OTHER SPECIES:												
Steelhead	5,409	4,274	4,632	2,439	1,249	685	233	159	243	119	319	23,884
Rainbow Trout	7,085	4,204	5,352	4,292	4,190	2,178	1,655	1,911	2,126	2,542	2,196	16,854
Cutthroat Trout	18,861	15,660	9,672	12,957	15,351	6,476	4,547	4,946	3,927	4,852	4,604	31,917
Brook Trout	887	450	477	1,026	762	481	274	223	167	10	112	1,294
Lake Trout	0	0	0	0	0	0	0	0	0	0	0	0
Dolly Varden/Arctic Char	51,636	48,300	45,954	26,238	26,893	18,558	17,723	22,447	21,722	21,751	16,441	87,574
Arctic Grayling	214	368	81	512	95	77	9	303	0	58	228	1,206
Northern Pike	42	0	136	0	0	0	0	0	0	0	0	94
Whitefish	61	16	60	18	0	0	0	0	4	0	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	4,564	3,678	6,202	36,940	2,374	2,797	904	1,284	4,478	3,868	4,479	4,505
Halibut	74,304	66,490	74,038	71,861	87,779	92,317	91,778	98,133	109,312	102,110	100,681	149,318
Rockfish	39,504	25,959	26,828	31,213	32,030	44,406	34,347	32,886	40,088	44,142	71,489	189,689
Lingcod	0	0	9,758	13,193	14,969	20,069	13,103	16,409	18,032	18,041	22,252	37,092
Razor Clams	5,104	4,428	618	2,445	1,001	928	2,004	228	141	126	0	0
Other Fish	17,579	20,167	14,204	8,892	13,237	7,200	13,533	3,580	5,760	6,108	3,940	19,597
Total	441,026	430,954	457,201	426,622	450,945	508,021	394,840	554,852	543,831	528,019	760,071	1,686,439

Appendix A18.-Southcentral Alaska sport fish harvest by species, 1989-1999, and catch by species, 1999.

Species	Harvest											Catch
	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	1999
SALMON SPECIES:												
Chinook	88,253	70,885	87,965	109,338	157,623	129,476	102,549	98,983	98,680	76,195	102,360	283,449
Sea-run Coho	237,155	214,114	254,961	237,204	283,868	299,849	263,749	347,567	269,996	321,029	309,564	491,799
Landlocked Coho/Chinook	27,555	23,475	28,452	31,288	36,994	30,677	14,080	40,766	24,328	22,427	18,125	36,932
Sockeye	423,301	228,452	316,701	363,056	265,517	237,670	223,358	302,678	284,062	301,044	338,741	592,608
Kokanee	2,207	1,972	5,729	1,525	3,997	687	209	0	173	415	0	0
Pink	90,191	132,400	91,592	86,837	70,869	84,649	78,374	76,247	47,589	87,711	67,102	320,493
Chum	19,833	7,417	9,458	8,265	8,693	7,556	12,864	14,413	10,693	10,593	10,873	116,406
OTHER SPECIES:												
Steelhead	978	1,371	477	710	2,569	1,661	804	253	91	271	348	11,011
Rainbow Trout	127,444	122,987	127,492	97,730	82,312	76,384	74,972	81,814	87,554	55,864	77,707	684,939
Cutthroat Trout	1,511	523	416	1,015	940	612	122	707	642	717	449	1,232
Brook Trout	0	0	0	0	0	0	0	0	0	0	0	0
Lake Trout	13,465	10,859	10,739	10,334	10,496	9,543	7,080	7,880	4,197	3,328	5,817	23,659
Dolly Varden/Arctic Char	70,219	75,992	76,869	63,371	59,722	45,256	43,073	54,229	46,468	37,608	36,606	304,342
Arctic Grayling	33,618	26,940	30,396	22,257	23,786	30,249	22,874	21,649	11,876	7,776	8,749	132,958
Northern Pike	4,434	3,655	8,704	7,314	7,131	5,800	5,323	10,503	10,489	9,595	13,327	41,270
Whitefish	5,344	7,878	3,832	2,867	2,480	3,000	1,867	1,215	1,380	1,474	277	1,680
Burbot	4,374	5,094	1,827	2,992	3,392	5,165	1,853	2,030	3,575	1,578	1,373	2,313
Sheefish	0	0	0	0	0	0	0	0	0	0	0	0
Smelt	200,838	188,681	103,814	109,599	55,421	95,824	50,735	57,010	70,185	73,128	100,620	104,756
Halibut	154,712	180,568	192,485	193,049	225,314	236,609	233,389	251,746	270,775	247,316	231,708	411,596
Shark	0	0	0	0	0	0	0	127	1,391	609	516	5,927
Rockfish	47,272	36,613	40,435	55,310	50,595	54,565	41,266	46,164	48,132	43,316	48,739	100,969
Lingcod	0	0	13,291	15,701	7,888	7,809	7,089	7,953	10,273	7,271	8,313	25,854
Pacific Cod	0	0	0	0	0	0	0	1,911	8,469	5,252	3,471	16,957
Razor Clams	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	773,758	773,758
Other Fish	53,841	54,783	20,611	21,483	16,659	9,851	13,095	7,239	6,809	9,720	5,319	16,638
Total	2,519,404	2,428,172	2,633,148	2,675,940	2,387,224	2,689,639	2,396,666	2,276,839	2,167,689	1,984,330	2,163,862	4,501,546

Appendix A19.-Arctic-Yukon-Kuskokwim Alaska sport fish harvest by species, 1989-1999, and catch by species, 1999.

Species	Harvest											Catch
	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	1999
SALMON SPECIES:												
Chinook	3,413	1,805	1,963	1,689	3,964	5,029	4,291	7,077	14,971	12,890	9,855	36,181
Sea-run Coho	10,251	6,610	10,662	8,370	6,745	10,418	7,754	13,871	11,327	9,511	10,189	58,401
Landlocked Coho/Chinook	18,614	13,943	22,125	14,019	15,734	10,350	8,198	13,640	7,155	12,091	8,869	27,319
Sockeye	456	818	631	378	725	912	381	787	13,504	12,891	12,266	28,609
Kokanee	0	0	185	184	0	0	0	0	0	0	0	0
Pink	3,765	7,994	1,865	8,434	2,277	7,228	982	6,498	1,533	7,172	3,051	5,056
Chum	5,882	2,146	3,158	2,993	2,446	2,760	2,344	3,956	1,596	1,876	1,678	35,606
OTHER SPECIES:												
Steelhead	0	0	0	0	0	0	0	0	0	0	8	264
Rainbow Trout	75,432	64,618	72,798	37,951	50,179	33,699	36,054	49,504	37,981	43,997	52,578	181,442
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	3,605	1,743	3,033	2,191	2,598	1,831	1,332	1,206	3,289	2,657	4,131	22,251
Dolly Varden/Arctic Char	14,272	8,261	19,771	7,462	13,813	9,719	8,861	12,413	13,386	11,505	17,915	114,777
Arctic Grayling	71,637	37,506	52,354	22,304	25,859	33,117	23,285	24,991	33,968	30,611	28,275	363,366
Northern Pike	17,183	12,330	20,771	11,302	12,235	19,758	13,683	12,540	6,114	6,022	6,439	47,728
Whitefish	18,932	7,701	2,936	3,853	1,743	1,454	996	832	2,839	2,878	1,547	3,593
Burbot	4,894	5,483	3,055	4,253	6,466	5,703	5,275	3,811	8,614	5,304	5,530	8,278
Sheefish	2,306	750	2,256	2,933	1,619	1,511	2,200	1,502	1,761	815	1,157	7,507
Smelt	2,424	1,709	1,818	2,001	3,700	7,506	1,266	2,573	2,828	3,333	3,046	3,920
Halibut	0	144	0	33	54	120	21	341	169	1,038	268	299
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	614	1,783	1,136	1,394	1,561	1,550	791	465	1,180	2,873	3,288
Total	253,437	174,175	221,164	131,486	151,551	152,676	118,473	156,333	161,500	165,771	169,675	947,885



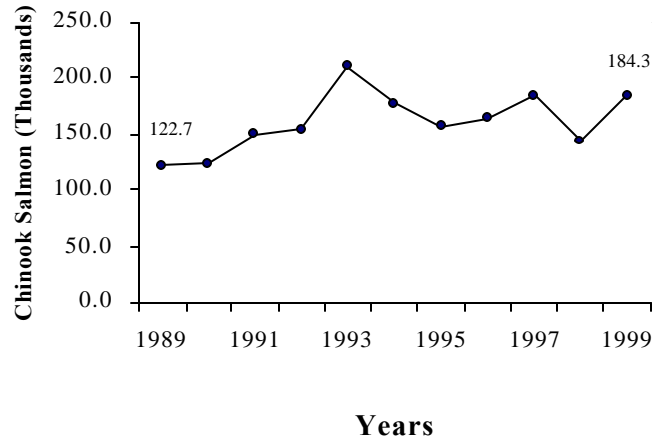
Appendix A20.-Alaska sport sea-run salmon harvests, 1989-1999, statewide and by region.

Appendix A21.-Alaska sport sea-run salmon harvests, 1989-1999, and catch, 1999, by region and area.

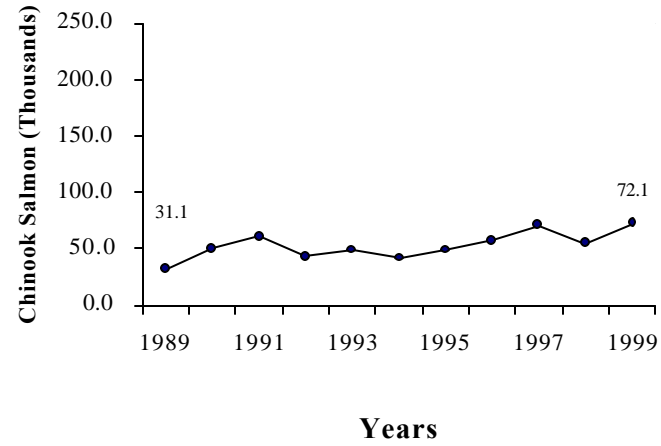
Area Fished	Harvest											Catch
	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	1999
Southeast												
Ketchikan	49,120	65,233	64,338	51,117	48,077	60,424	43,432	102,822	65,922	68,639	102,640	181,254
Prince of Wales Island	32,008	29,096	38,123	23,446	68,302	41,238	34,830	80,781	61,371	63,794	107,984	224,604
Kake, Petersburg, Wrangell, Stikine	11,339	19,664	15,836	14,225	12,676	20,047	12,967	14,218	12,544	9,816	29,305	62,904
Sitka	21,243	21,038	30,376	23,898	34,522	63,615	42,649	75,015	81,630	90,921	125,974	243,781
Juneau	75,647	71,887	75,939	77,599	58,745	95,097	56,777	62,392	63,904	55,362	92,539	223,417
Haines-Skagway	8,373	22,368	9,220	8,708	5,600	8,639	4,690	7,179	7,238	4,193	7,994	26,688
Glacier Bay	6,015	2,822	13,788	4,939	6,474	9,414	6,420	8,113	13,432	7,693	23,777	39,963
Yakutat	10,983	4,340	9,985	8,359	14,959	12,598	12,917	21,711	31,566	23,402	40,955	118,186
Total	214,728	236,448	257,605	212,291	249,355	311,072	214,682	372,231	337,607	323,820	531,168	1,120,79
Southcentral												
Upper Copper/Upper Susitna Drainages	6,883	5,871	10,464	9,085	13,754	13,173	12,937	21,159				
Prince William Sound	72,292	81,710	77,964	67,708	66,159	92,110	99,860	100,589	85,964	96,386	100,841	241,132
Knik Arm Drainage	43,025	28,768	31,456	36,686	46,406	39,915	31,230	33,402	19,576	32,723	21,668	35,015
Anchorage	8,864	8,436	8,657	18,659	25,663	20,403	21,240	26,604	27,308	49,364	19,120	42,225
East Susitna River Drainage	36,254	29,501	35,410	66,508	58,309	42,520	36,264	44,570	32,466	47,256	50,603	159,488
West Cook Inlet-West Susitna River	53,873	44,000	57,015	49,052	55,547	41,053	40,515	44,199	30,475	39,752	53,046	144,385
Kenai Peninsula	512,243	362,912	450,156	482,681	423,540	421,335	357,452	483,852	429,083	428,804	478,012	766,227
Kodiak	46,103	28,435	38,539	28,654	47,010	33,700	36,759	37,204	42,480	50,478	58,216	192,764
Naknek River Drainage-Alaska Peninsula	34,262	42,404	23,294	21,220	15,541	16,881	14,944	18,758	18,714	16,271	19,222	57,221
Kvichak River Drainage	29,285	13,382	16,730	14,886	23,906	19,839	20,089	11,728	13,849	19,815	16,487	80,051
Nushagak	15,649	7,849	10,992	9,561	10,735	18,271	9,604	17,823	11,105	15,723	11,425	86,247
Total ^a	858,733	653,268	760,677	804,700	786,570	759,200	680,894	839,888	711,020	796,572	828,640	1,804,75
Arctic-Yukon-Kuskokwim												
Upper Copper/Upper Susitna Drainages									20,735	19,718	17,867	38,889
Tanana River Drainages	3,693	2,213	3,563	1,923	2,222	3,296	4,589	6,979	3,638	1,121	1,926	8,645
Kuskokwim-Goodnews Drainages	9,124	3,971	3,770	4,414	5,203	7,772	4,847	9,232	10,415	9,769	7,088	89,591
Seward Peninsula-Norton Sound Drainages	9,587	12,439	9,594	13,406	7,329	13,752	5,569	14,685	7,265	12,668	9,462	21,780
Northwest Alaska Drainages	51	0	150	521	452	299	359	626	272	190	424	3,445
Yukon River Drainages	1,312	750	1,202	1,567	934	1,228	388	656	606	861	272	1,503
North Slope Brooks Range Drainages	0	0	0	33	17	0	0	11	0	13	0	0
Total ^a	23,767	19,373	18,279	21,864	16,157	26,347	15,752	32,189	42,931	44,340	37,039	163,853
Alaska Total	1,097,22	909,089	1,036,56	1,038,85	1,052,08	1,096,61	911,328	1,244,30	1,091,55	1,164,73	1,396,84	3,089,40

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

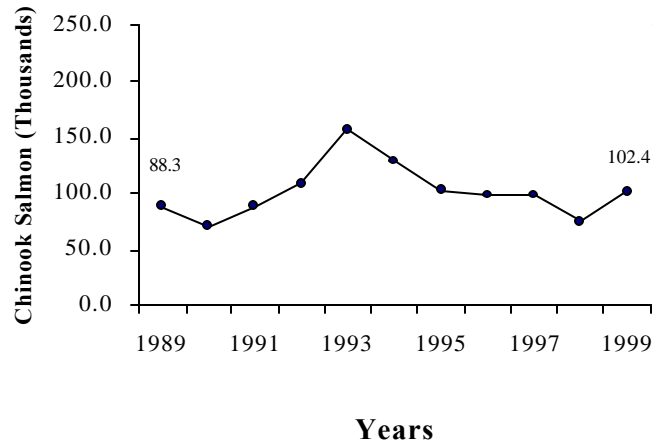
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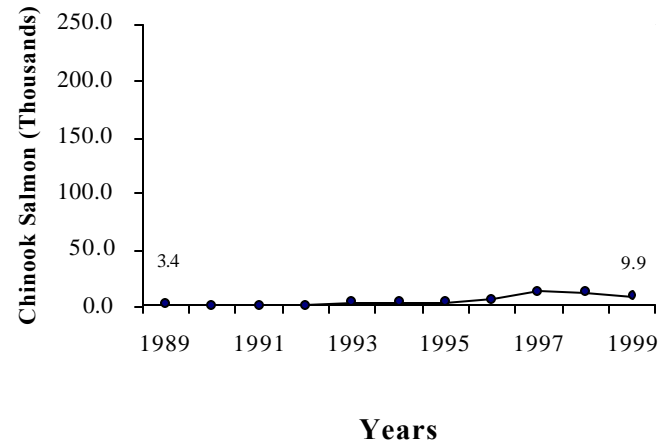
Southeast



Southcentral



Arctic-Yukon-Kuskokwim

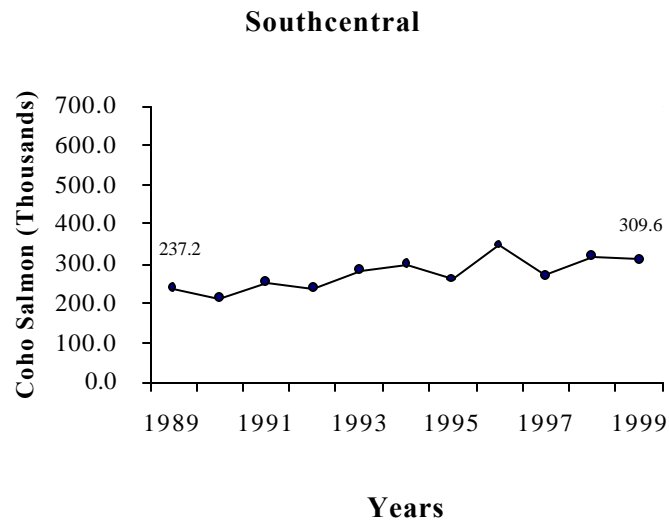
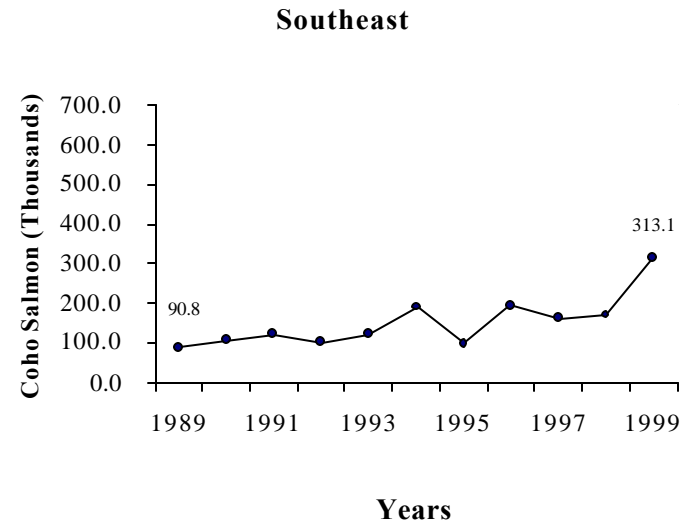
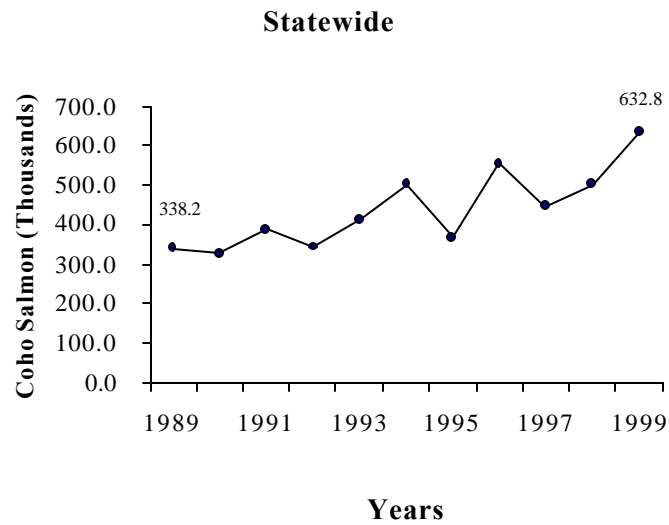


Appendix A22.-Alaska sport sea-run chinook salmon harvests, 1989-1999, statewide and by region.

Appendix A23.-Alaska sport sea-run chinook salmon harvests, 1989-1999, and catch, 1999, by region and area.

Area Fished	Harvest											Catch
	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	1999
Southeast												
Ketchikan	7,642	12,784	11,887	8,010	6,028	5,448	3,543	5,437	5,257	3,242	7,916	24,641
Prince of Wales Island	2,599	5,564	6,749	4,381	8,367	7,006	9,063	6,833	7,830	10,232	8,518	19,015
Kake, Petersburg, Wrangell, Stikine	4,702	10,185	8,011	5,746	6,132	4,217	4,085	5,039	6,299	3,692	9,502	22,657
Sitka	5,569	8,041	13,243	11,139	13,464	12,263	17,342	19,743	28,986	24,547	28,548	57,735
Juneau	9,375	12,349	16,914	11,886	13,118	11,407	11,428	14,684	15,521	8,778	11,574	40,838
Haines-Skagway	758	1,809	679	181	844	636	1,243	777	1,609	691	1,168	4,323
Glacier Bay	344	369	2,385	1,071	716	576	895	1,384	3,093	1,314	2,095	4,849
Yakutat	82	117	624	478	577	812	2,068	3,612	2,929	2,517	2,760	7,572
Total	31,071	51,218	60,492	42,892	49,246	42,365	49,667	57,509	71,524	55,013	72,081	181,630
Southcentral												
Upper Copper/Upper Susitna Drainages	2,356	2,302	4,884	4,412	8,217	6,431	6,709	9,116				
Prince William Sound	1,093	418	477	1,116	1,344	1,724	977	2,027	2,703	1,622	1,763	2,753
Knik Arm Drainage	4,341	2,022	2,277	3,969	3,602	4,303	1,707	1,579	2,938	2,031	2,724	5,090
Anchorage	950	457	1,169	2,448	3,041	2,708	4,054	4,456	4,616	2,156	5,462	15,118
East Susitna River Drainage	9,783	9,423	9,083	21,307	22,688	14,970	7,872	11,023	10,989	10,472	16,875	48,400
West Cook Inlet-West Susitna River Drainages	22,415	19,568	22,762	20,035	23,354	12,231	7,300	7,429	9,197	10,526	13,744	46,848
Kenai Peninsula	34,934	27,314	33,622	43,519	78,407	65,092	59,319	47,133	51,011	32,063	45,825	92,918
Kodiak	1,087	996	2,508	2,217	5,092	3,166	2,622	4,631	5,691	4,052	6,791	17,243
Naknek River Drainage-Alaska Peninsula	4,706	3,736	3,546	3,728	3,471	5,197	4,688	3,891	5,552	4,364	3,203	9,564
Kvichak River Drainage	2,143	683	900	1,249	1,906	1,308	1,293	1,145	1,112	2,054	676	2,262
Nushagak	4,445	3,966	6,737	5,338	6,501	12,346	6,008	6,553	4,871	6,855	5,297	43,253
Total^a	88,253	70,885	87,965	109,338	157,623	129,476	102,549	98,983	98,680	76,195	102,360	283,449
Arctic-Yukon-Kuskokwim												
Upper Copper/Upper Susitna Drainages									8,346	8,245	6,742	18,034
Tanana River Drainages	963	439	630	118	1,573	1,871	2,488	3,745	1,953	447	1,001	4,176
Kuskokwim-Goodnews Drainages	2,147	897	786	1,046	1,674	2,148	1,328	2,542	3,345	3,401	1,440	12,859
Seward Peninsula-Norton Sound Drainages	203	364	404	204	595	600	438	662	1,106	590	630	1,023
Northwest Alaska Drainages	0	0	0	8	0	0	0	0	0	0	20	33
Yukon River Drainages	100	105	143	313	122	410	37	128	221	207	22	56
North Slope Brooks Range Drainages	0	0	0	0	0	0	0	0	0	0	0	0
Total^a	3,413	1,805	1,963	1,689	3,964	5,029	4,291	7,077	14,971	12,890	9,855	36,181
Alaska Total	122,737	123,908	150,420	153,919	210,833	176,870	156,507	163,569	185,175	144,098	184,296	501,260

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

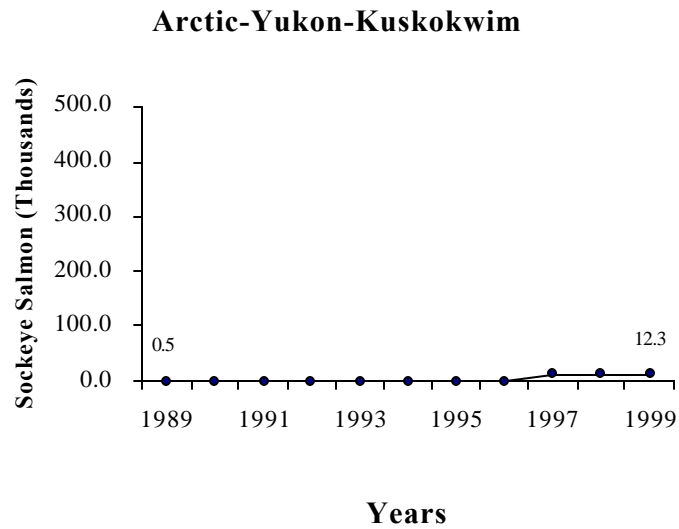
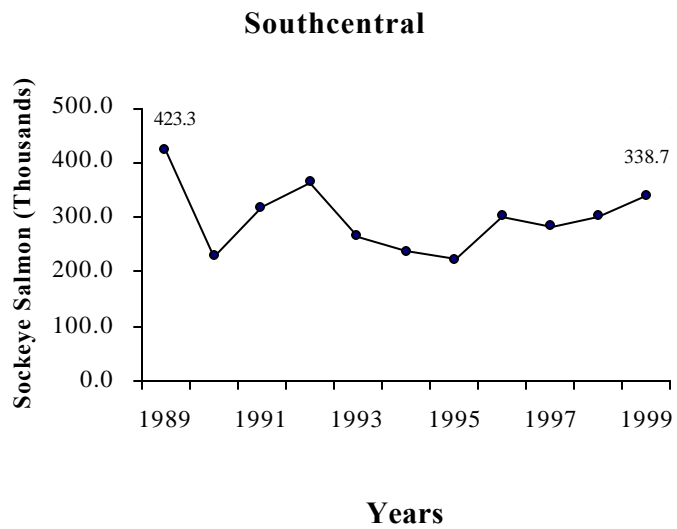
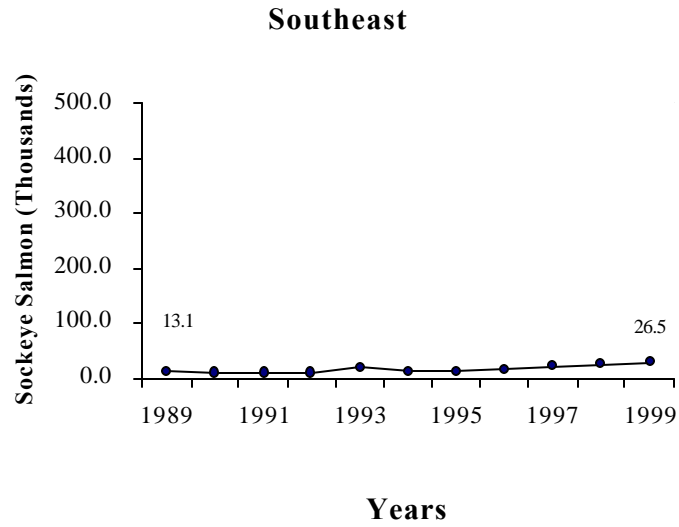
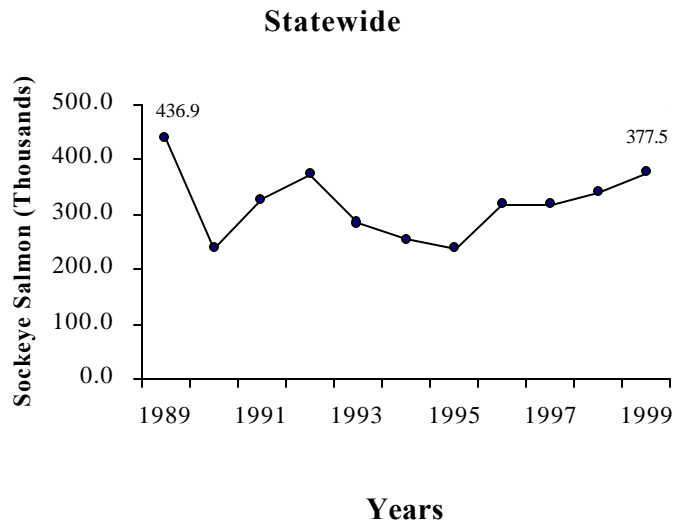


Appendix A24.-Alaska sport sea-run coho salmon harvests, 1989-1999, statewide and by region.

Appendix A25.-Alaska sport sea-run coho salmon harvests, 1989-1999, and catch, 1999, by region and area.

Area Fished	Harvest											Catch
	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	1999
Southeast												
Ketchikan	13,328	35,197	26,839	22,016	19,459	34,755	16,583	47,911	32,498	31,895	53,000	68,552
Prince of Wales Island	15,099	17,049	24,964	13,419	40,566	26,411	16,645	53,792	38,210	41,190	76,552	97,463
Kake, Petersburg, Wrangell, Stikine	2,602	5,387	5,117	4,967	4,241	14,008	5,811	6,640	3,338	3,282	12,763	16,730
Sitka	8,291	7,808	11,474	9,167	14,518	42,878	16,614	35,892	37,953	51,468	76,246	100,855
Juneau	39,063	33,961	40,269	40,170	30,428	57,127	30,396	32,472	27,392	28,663	51,297	69,273
Haines-Skagway	2,047	1,498	3,678	3,067	3,133	1,996	2,097	1,821	1,850	992	2,578	5,354
Glacier Bay	2,376	1,746	5,653	1,507	2,720	6,811	2,976	4,667	5,955	3,781	11,990	14,350
Yakutat	7,983	2,566	5,952	5,626	6,809	7,874	6,006	10,563	16,006	10,124	28,650	76,763
Total	90,789	105,212	123,946	99,939	121,874	191,860	97,128	193,758	163,202	171,395	313,076	449,340
Southcentral												
Upper Copper/Upper Susitna Drainages	18	0	69	113	249	209	160	192				
Prince William Sound	25,631	26,639	19,783	25,259	21,793	30,573	47,116	59,934	49,145	47,973	53,089	81,418
Knik Arm Drainage	23,846	18,762	22,186	25,814	35,763	28,539	20,650	24,874	11,773	23,750	14,429	19,490
Anchorage	4,734	2,488	4,393	5,698	16,387	13,948	13,267	17,795	20,578	42,219	12,266	17,834
East Susitna River Drainage	17,078	11,743	19,479	33,790	26,063	20,870	19,165	24,174	10,297	23,086	23,292	43,570
West Cook Inlet-West Susitna River Drainages	26,725	20,219	29,518	23,748	26,712	23,169	28,420	31,315	14,055	21,912	29,650	51,911
Kenai Peninsula	104,026	107,519	132,765	100,848	130,207	158,618	113,870	154,686	129,095	128,249	137,132	187,706
Kodiak	19,802	13,728	17,506	13,668	21,241	12,406	13,236	16,033	22,996	24,850	27,781	55,206
Naknek River Drainage-Alaska Peninsula	7,850	10,276	6,025	6,124	3,253	7,053	4,680	9,880	8,046	5,908	8,678	16,047
Kvichak River Drainage	2,142	1,162	1,510	655	1,519	1,863	1,396	2,249	2,077	413	1,049	5,770
Nushagak	5,303	1,578	1,727	1,487	681	2,601	1,789	6,435	1,934	2,669	2,198	12,847
Total ^a	237,155	214,114	254,961	237,204	283,868	299,849	263,749	347,567	269,996	321,029	309,564	491,799
Arctic-Yukon-Kuskokwim												
Upper Copper/Upper Susitna Drainages									96	289	24	73
Tanana River Drainages	1,596	1,719	2,345	1,115	278	1,165	1,116	1,354	1,229	604	451	2,239
Kuskokwim-Goodnews Drainages	4,282	1,358	2,087	2,033	2,056	2,978	2,771	4,756	5,430	4,023	3,974	40,902
Seward Peninsula-Norton Sound Drainages	4,158	3,305	5,800	4,671	3,783	5,547	3,705	7,289	4,393	4,441	5,582	14,383
Northwest Alaska Drainages	0	0	0	0	9	0	0	40	0	0	0	0
Yukon River Drainages	215	228	430	551	619	728	162	432	179	154	158	804
North Slope Brooks Range Drainages	0	0	0	0	0	0	0	0	0	0	0	0
Total ^a	10,251	6,610	10,662	8,370	6,745	10,418	7,754	13,871	11,327	9,511	10,189	58,401
Alaska Total												
	338,195	325,936	389,569	345,513	412,487	502,127	368,631	555,196	444,525	501,935	632,829	999,540

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

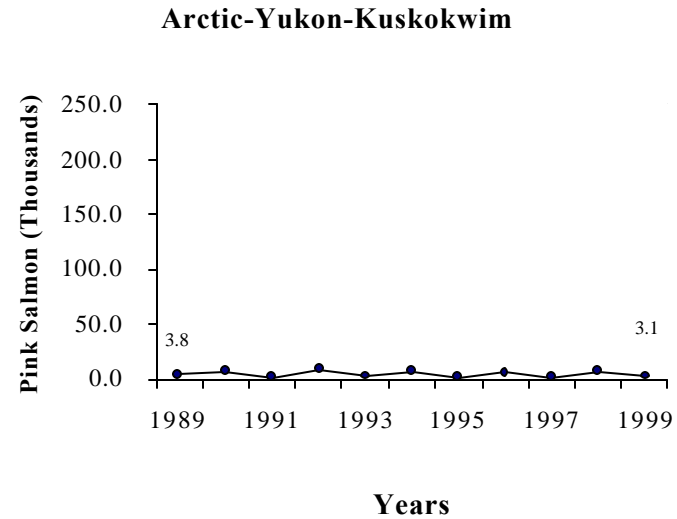
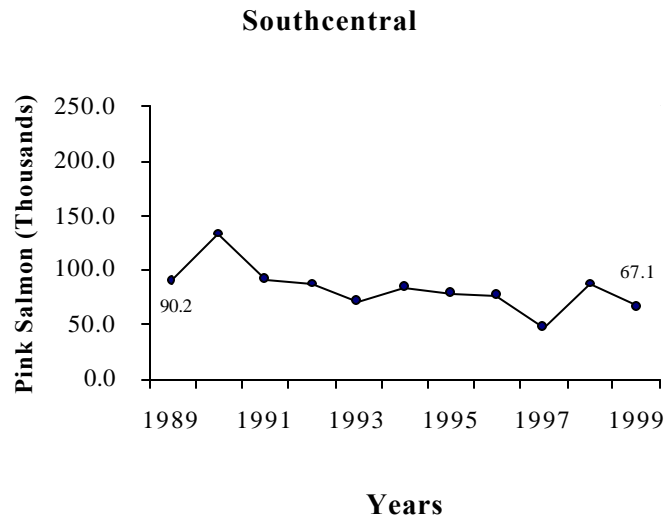
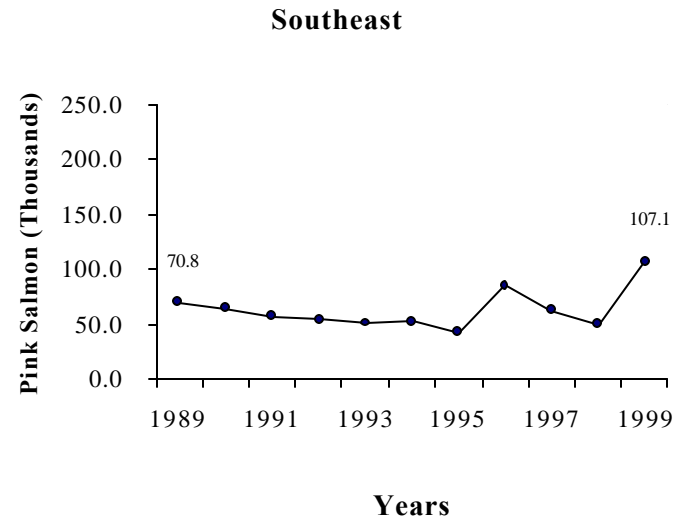
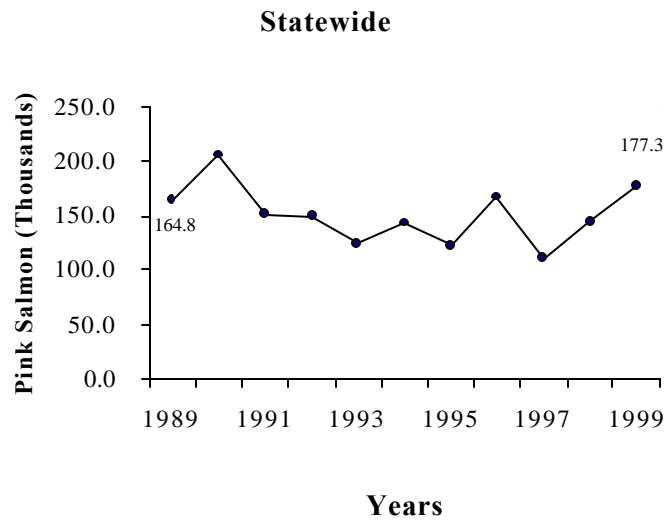


Appendix A26.-Alaska sport sockeye salmon harvests, 1989-1999, statewide and by region.

Appendix A27.-Alaska sport sockeye salmon harvests, 1989-1999, and catch, 1999, by region and area.

Area Fished	Harvest											Catch
	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	1999
Southeast												
Ketchikan	1,010	1,134	2,480	1,313	1,057	2,317	1,577	1,745	1,687	2,949	2,095	2,565
Prince of Wales Island	3,332	1,402	1,021	1,740	3,591	2,186	1,979	1,765	2,891	3,165	3,951	6,610
Kake, Petersburg, Wrangell, Stikine	1,001	488	612	1,133	1,208	521	1,071	690	1,474	880	754	1,438
Sitka	2,148	1,344	810	434	1,126	2,138	1,579	3,041	3,509	3,781	7,566	10,422
Juneau	1,461	974	1,017	985	2,530	1,419	1,958	1,106	1,956	3,861	2,733	3,939
Haines-Skagway	1,692	3,062	1,272	1,436	538	538	506	902	784	276	683	1,160
Glacier Bay	216	21	132	379	314	93	696	327	535	180	85	203
Yakutat	2,254	1,423	2,371	1,898	7,055	3,811	4,125	6,133	8,437	10,358	8,609	16,670
Total	13,114	9,848	9,715	9,318	17,419	13,023	13,491	15,709	21,273	25,450	26,476	43,007
Southcentral												
Upper Copper/Upper Susitna Drainages	4,509	3,569	5,511	4,560	5,288	6,533	6,068	11,851				
Prince William Sound	3,939	3,562	3,792	8,358	5,269	6,948	3,711	5,496	5,086	8,312	10,666	16,891
Knik Arm Drainage	9,040	6,588	4,968	5,349	5,926	5,082	4,349	4,307	4,095	5,499	3,658	5,559
Anchorage	564	244	749	1,315	3,085	1,594	381	884	1,023	1,271	542	1,507
East Susitna River Drainage	2,527	2,677	2,897	3,468	4,137	3,443	3,682	2,675	5,851	5,859	4,608	10,248
West Cook Inlet-West Susitna River Drainages	3,009	2,634	3,887	3,367	4,577	4,011	3,722	4,340	5,283	5,190	8,269	17,857
Kenai Peninsula	354,981	185,711	270,424	312,302	201,909	176,462	171,850	251,963	237,981	241,843	280,544	438,528
Kodiak	6,789	6,056	4,937	6,240	7,849	12,502	7,994	7,848	7,938	8,763	10,405	23,786
Naknek River Drainage-Alaska Peninsula	9,515	4,754	4,225	4,699	5,060	3,169	3,817	3,246	3,384	4,063	4,232	13,066
Kvichak River Drainage	24,295	11,002	13,341	11,746	19,671	16,223	16,808	7,318	10,315	15,638	14,009	52,681
Nushagak	4,133	1,655	1,970	1,652	2,746	1,703	976	2,750	3,106	4,606	1,808	12,485
Total ^a	423,301	228,452	316,701	363,056	265,517	237,670	223,358	302,678	284,062	301,044	338,741	592,608
Arctic-Yukon-Kuskokwim												
Upper Copper/Upper Susitna Drainages									12,293	11,184	11,101	20,782
Tanana River Drainages	0	0	0	0	0	0	0	0	0	0	0	0
Kuskokwim-Goodnews Drainages	291	620	214	189	715	894	277	687	1,181	1,627	1,154	7,360
Seward Peninsula-Norton Sound Drainages	165	198	237	131	10	18	104	100	30	16	0	124
Northwest Alaska Drainages	0	0	0	0	0	0	0	0	0	0	0	0
Yukon River Drainages	0	0	180	58	0	0	0	0	0	64	11	343
North Slope Brooks Range Drainages	0	0	0	0	0	0	0	0	0	0	0	0
Total ^a	456	818	631	378	725	912	381	787	13,504	12,891	12,266	28,609
Alaska Total	436,871	239,118	327,047	372,752	283,661	251,605	237,230	319,174	318,839	339,385	377,483	664,224

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



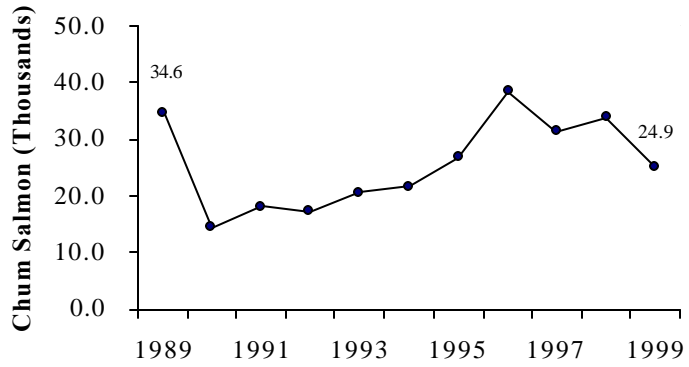
Appendix A28.-Alaska sport pink salmon harvests, 1989-1999, statewide and by region.

Appendix A29.-Alaska sport pink salmon harvests, 1989-1999, and catch, 1999, by region and area.

Area Fished	Harvest											Catch
	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	1999
Southeast												
Ketchikan	25,174	15,246	21,964	18,510	19,651	15,028	18,148	43,082	19,370	18,169	36,051	78,111
Prince of Wales Island	10,338	4,847	5,063	3,699	14,817	4,855	6,467	16,678	10,397	8,216	17,988	93,957
Kake, Petersburg, Wrangell, Stikine	2,420	3,426	1,889	2,058	955	1,178	1,614	1,420	1,306	1,754	5,144	17,152
Sitka	3,694	3,083	4,476	2,699	3,376	4,266	5,466	9,860	6,902	7,916	11,903	66,624
Juneau	22,488	22,385	14,998	21,411	9,216	20,060	8,373	8,261	14,232	9,895	22,818	86,761
Haines-Skagway	3,201	15,362	3,171	3,811	360	5,036	629	3,054	2,552	2,183	3,212	13,688
Glacier Bay	2,913	637	5,358	1,556	2,612	1,739	1,620	1,312	3,684	2,220	9,200	19,726
Yakutat	594	222	940	357	449	101	641	1,392	4,106	353	826	15,255
Total	70,822	65,208	57,859	54,101	51,436	52,263	42,958	85,059	62,549	50,706	107,142	391,274
Southcentral												
Upper Copper/Upper Susitna Drainages	0	0	0	0	0	0	0	0				
Prince William Sound	37,994	49,146	52,290	32,011	35,735	51,538	46,944	31,052	26,437	36,231	33,993	132,858
Knik Arm Drainage	1,321	650	926	1,044	230	635	409	961	377	646	119	1,246
Anchorage	1,631	4,932	1,986	8,901	2,767	1,979	3,099	2,862	843	3,205	721	5,462
East Susitna River Drainage	2,715	4,093	2,001	5,899	3,941	1,968	2,311	3,890	2,477	5,579	2,887	22,744
West Cook Inlet-West Susitna River Drainages	1,255	1,298	623	1,446	725	1,301	428	620	766	1,730	840	14,940
Kenai Peninsula	15,377	41,257	12,280	24,407	11,601	20,202	11,726	27,259	9,576	25,522	12,906	40,881
Kodiak	17,794	7,464	12,071	5,904	12,324	5,336	11,926	7,076	5,449	12,266	12,813	89,934
Naknek River Drainage-Alaska Peninsula	11,359	23,178	8,891	6,137	3,331	1,283	1,350	1,354	1,567	1,686	2,681	10,103
Kvichak River Drainage	277	235	423	750	215	105	28	643	40	506	49	978
Nushagak	468	147	101	338	0	302	153	530	57	340	93	1,347
Total ^a	90,191	132,400	91,592	86,837	70,869	84,649	78,374	76,247	47,589	87,711	67,102	320,493
Arctic-Yukon-Kuskokwim												
Upper Copper/Upper Susitna Drainages									0	0	0	0
Tanana River Drainages	0	0	0	0	0	0	0	0	0	0	0	0
Kuskokwim-Goodnews Drainages	191	347	36	219	27	126	16	486	75	122	0	1,209
Seward Peninsula-Norton Sound Drainages	3,564	7,647	1,738	7,877	2,250	7,051	928	5,972	1,458	6,939	3,039	3,835
Northwest Alaska Drainages	10	0	91	293	0	51	38	10	0	13	12	12
Yukon River Drainages	0	0	0	27	0	0	0	30	0	85	0	0
North Slope Brooks Range Drainages	0	0	0	18	0	0	0	0	0	13	0	0
Total ^a	3,765	7,994	1,865	8,434	2,277	7,228	982	6,498	1,533	7,172	3,051	5,056
Alaska Total	164,778	205,602	151,316	149,372	124,582	144,140	122,314	167,804	111,671	145,589	177,295	716,823

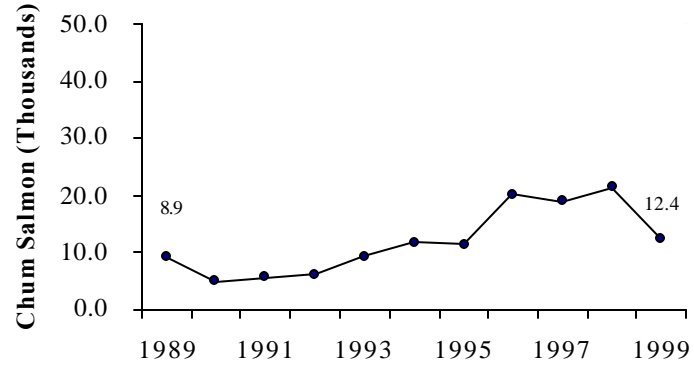
^a Upper Copper/Upper Susitna Drainages estimates are included under the Arctic-Yukon-Kuskokwim Region starting in 1997 to reflect the shift in management responsibilities.

Statewide



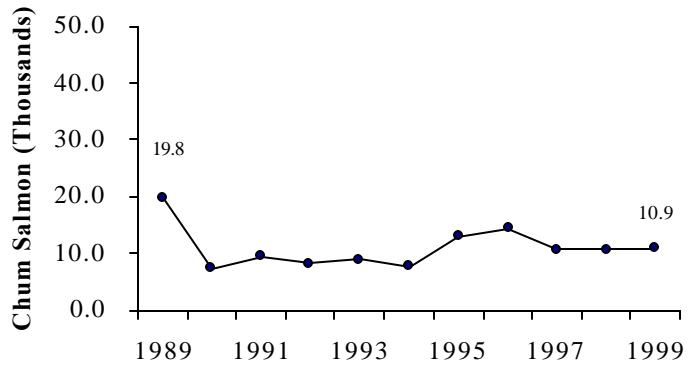
Years

Southeast



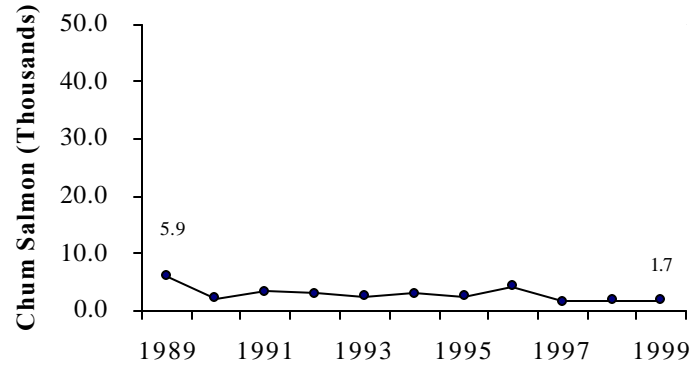
Years

Southcentral



Years

Arctic-Yukon-Kuskokwim



Years

Appendix A30.-Alaska sport chum salmon harvests, 1989-1999, statewide and by region.

Appendix A31.-Alaska sport chum salmon harvests, 1989-1999, and catch, 1999, by region and area.

Area Fished	Harvest											Catch 1999
	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	
Southeast												
Ketchikan	1,966	872	1,168	1,268	1,882	2,876	3,581	4,647	7,110	12,384	3,578	7,385
Prince of Wales Island	640	234	326	207	961	780	676	1,713	2,043	991	975	7,559
Kake, Petersburg, Wrangell, Stikine	614	178	207	321	140	123	386	429	127	208	1,142	4,927
Sitka	1,541	762	373	459	2,038	2,070	1,648	6,479	4,280	3,209	1,711	8,145
Juneau	3,260	2,218	2,741	3,147	3,453	5,084	4,622	5,869	4,803	4,165	4,117	22,606
Haines-Skagway	675	637	420	213	725	433	215	625	443	51	353	2,163
Glacier Bay	166	49	260	426	112	195	233	423	165	198	407	835
Yakutat	70	12	98	0	69	0	77	11	88	50	110	1,926
Total	8,932	4,962	5,593	6,041	9,380	11,561	11,438	20,196	19,059	21,256	12,393	55,546
Southcentral												
Upper Copper/Upper Susitna Drainages	0	0	0	0	0	0	0	0				
Prince William Sound	3,635	1,945	1,622	964	2,018	1,327	1,112	2,080	2,593	2,248	1,330	7,212
Knik Arm Drainage	4,477	746	1,099	510	885	1,356	4,115	1,681	393	797	738	3,630
Anchorage	985	315	360	297	383	174	439	607	248	513	129	2,304
East Susitna River Drainage	4,151	1,565	1,950	2,044	1,480	1,269	3,234	2,808	2,852	2,260	2,941	34,526
West Cook Inlet-West Susitna River Drainages	469	281	225	456	179	341	645	495	1,174	394	543	12,829
Kenai Peninsula	2,925	1,111	1,065	1,605	1,416	961	687	2,811	1,420	1,127	1,605	6,194
Kodiak	631	191	1,517	625	504	290	981	1,616	406	547	426	6,595
Naknek River Drainage-Alaska Peninsula	832	460	607	532	426	179	409	387	165	250	428	8,441
Kvichak River Drainage	428	300	556	486	595	340	564	373	305	1,204	704	18,360
Nushagak	1,300	503	457	746	807	1,319	678	1,555	1,137	1,253	2,029	16,315
Total ^a	19,833	7,417	9,458	8,265	8,693	7,556	12,864	14,413	10,693	10,593	10,873	116,406
Arctic-Yukon-Kuskokwim												
Upper Copper/Upper Susitna Drainages									0	0	0	0
Tanana River Drainages	1,134	55	588	690	371	260	985	1,880	456	70	474	2,230
Kuskokwim-Goodnews Drainages	2,213	749	647	927	731	1,626	455	761	384	596	520	27,261
Seward Peninsula-Norton Sound Drainages	1,497	925	1,415	523	691	536	394	662	278	682	211	2,415
Northwest Alaska Drainages	41	0	59	220	443	248	321	576	272	177	392	3,400
Yukon River Drainages	997	417	449	618	193	90	189	66	206	351	81	300
North Slope Brooks Range Drainages	0	0	0	15	17	0	0	11	0	0	0	0
Total ^a	5,882	2,146	3,158	2,993	2,446	2,760	2,344	3,956	1,596	1,876	1,678	35,606
Alaska Total	34,647	14,525	18,209	17,299	20,519	21,877	26,646	38,565	31,348	33,725	24,944	207,558

^a 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, 1989-1999, and catch, 1999, by region and area.

Area Fished	Harvest											Catch
	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	1999
Southeast												
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	528	413	1,222	1,536	1,454	717	48	36	195	249	2,111	2,567
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	528	413	1,222	1,536	1,454	717	48	36	195	249	2,111	2,567
Southcentral												
Upper Copper/Upper Susitna Drainages	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	11,041	15,950	15,740	11,875	13,829	14,153	7,285	21,364	11,599	5,057	8,674	15,097
Anchorage	14,483	6,775	10,817	13,985	17,489	13,280	6,034	13,280	8,913	12,601	7,854	17,372
East Susitna River Drainage	536	151	14	86	738	45	33	1,986	122	320	703	2,079
West Cook Inlet-West Susitna River Drainages	0	0	0	0	0	0	0	0	0	0	0	0
Kenai Peninsula	1,154	530	1,770	4,758	4,882	3,065	686	3,385	3,613	4,385	863	2,330
Kodiak	60	52	0	151	0	0	0	0	81	64	31	54
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 ^a	27,555	23,475	28,452	31,288	36,994	30,677	14,080	40,766	24,328	22,427	18,125	36,932
Arctic-Yukon-Kuskokwim												
Upper Copper/Upper Susitna Drainages									331	477	232	309
Tanana River Drainages	18,614	13,943	22,125	14,019	15,734	10,350	8,198	13,640	6,824	11,614	8,637	27,010
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 ^a	18,614	13,943	22,125	14,019	15,734	10,350	8,198	13,640	7,155	12,091	8,869	27,319
Alaska Total												
	46,697	37,831	51,799	46,843	54,182	41,744	22,326	54,442	31,678	34,767	29,105	66,818

^a 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, 1989-1999, and catch, 1999, by region and area.

Area Fished	Harvest											Catch
	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	1999
Southeast												
Ketchikan	26	16	279	0	15	45	0	0	0	0	0	0
Prince of Wales Island	42	0	0	0	0	0	0	0	0	0	0	0
Kake, Petersburg, Wrangell, Stikine	0	0	0	22	0	0	0	0	0	0	0	0
Sitka	0	17	0	0	0	0	0	0	0	0	22	22
Juneau	239	0	47	379	191	15	0	76	29	223	29	29
Haines-Skagway	213	66	36	368	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	520	99	362	769	206	60	0	76	29	223	51	51
Southcentral												
Upper Copper/Upper Susitna Drainages	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	227	0	170	22	0	0	0	0	0	0	0	0
Anchorage	122	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	162	541	1,577	767	396	604	125	0	173	415	0	0
Kodiak	0	0	0	0	0	0	0	0	0	0	0	0
Naknek River Drainage-Alaska Peninsula	1,527	1,278	3,982	736	3,503	29	67	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^a	2,207	1,972	5,729	1,525	3,997	687	209	0	173	415	0	0
Arctic-Yukon-Kuskokwim												
Upper Copper/Upper Susitna Drainages									0	0	0	0
Tanana River Drainages	0	0	185	184	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^a	0	0	185	184	0	0	0	0	0	0	0	0
Alaska Total	2,727	2,071	6,276	2,478	4,203	747	209	76	202	638	51	51

^a 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, 1989-1999, and catch, 1999, by region and area.

Area Fished	Harvest											Catch 1999
	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	
Southeast												
Ketchikan	1,654	1,423	793	786	69	98	17	11	31	4	40	657
Prince of Wales Island	1,277	789	1,666	739	260	136	82	0	39	32	56	3,604
Kake, Petersburg, Wrangell, Stikine	609	1,046	394	390	351	233	68	35	15	63	47	2,627
Sitka	193	153	388	156	243	122	18	24	0	0	16	2,670
Juneau	280	240	400	258	258	47	0	24	38	0	24	126
Haines-Skagway	142	32	253	24	28	0	0	11	0	9	0	36
Glacier Bay	42	0	173	31	19	7	0	0	19	0	16	62
Yakutat	1,212	591	565	55	21	42	48	54	101	11	120	14,102
Total	5,409	4,274	4,632	2,439	1,249	685	233	159	243	119	319	23,884
Southcentral												
Upper Copper/Upper Susitna Drainages	84	34	114	8	0	7	10	0				
Prince William Sound	39	0	0	0	0	0	0	0	46	9	72	216
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	67	217	36	606	2,237	1,445	700	36	7	40	0	4,979
Kodiak	788	1,120	327	96	332	209	94	217	38	222	276	5,753
Naknek River Drainage-Alaska Peninsula	0	0	0	0	0	0	0	0	0	0	0	63
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^a	978	1,371	477	710	2,569	1,661	804	253	91	271	348	11,011
Arctic-Yukon-Kuskokwim												
Upper Copper/Upper Susitna Drainages									0	0	8	264
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^a	0	0	0	0	0	0	0	0	0	0	8	264
Alaska Total	6,387	5,645	5,109	3,149	3,818	2,346	1,037	412	334	390	675	35,159

^a 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, 1989-1999, and catch, 1999, by region and area.

Area Fished	Harvest											Catch
	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	1999
Southeast												
Ketchikan	2,201	1,199	962	641	1,346	627	506	319	1,046	522	658	8,883
Prince of Wales Island	2,963	707	1,958	667	703	735	832	323	419	750	500	2,081
Kake, Petersburg, Wrangell, Stikine	197	1,014	583	601	417	297	85	105	300	615	59	265
Sitka	1,282	970	1,596	1,932	1,288	378	94	988	283	266	590	4,133
Juneau	229	241	46	372	167	0	0	96	36	180	352	639
Haines-Skagway	182	32	34	79	192	57	19	0	12	0	0	24
Glacier Bay	0	17	22	0	0	38	0	0	0	17	0	73
Yakutat	31	24	151	0	77	46	119	80	30	192	37	756
Total	7,085	4,204	5,352	4,292	4,190	2,178	1,655	1,911	2,126	2,542	2,196	16,854
Southcentral												
Upper Copper/Upper Susitna Drainages	5,835	3,924	6,868	9,373	7,245	5,808	4,671	5,076				
Prince William Sound	677	392	627	318	136	457	777	336	425	337	1,355	4,447
Knik Arm Drainage	44,518	30,699	39,636	27,995	21,565	22,446	14,878	21,780	25,695	17,693	24,527	84,691
Anchorage	53,197	58,435	49,303	33,317	29,112	23,631	32,874	36,148	37,145	19,761	28,776	163,010
East Susitna River Drainage	4,972	5,008	7,854	3,948	3,713	3,658	3,138	2,510	2,324	968	1,755	39,753
West Cook Inlet-West Susitna River Drainages	5,472	4,432	5,054	2,218	2,672	2,719	1,868	2,363	2,070	1,270	2,143	40,399
Kenai Peninsula	7,793	14,881	12,541	16,356	14,652	14,061	14,173	9,891	16,157	13,463	15,302	186,634
Kodiak	1,534	1,484	1,296	1,179	374	765	283	466	660	411	1,057	3,746
Naknek River Drainage-Alaska Peninsula	1,109	897	1,664	1,102	1,068	824	667	1,020	480	537	683	39,785
Kvichak River Drainage	977	1,462	1,590	562	898	984	613	610	1,125	802	1,145	82,040
Nushagak	1,360	1,373	1,059	1,362	877	1,031	1,030	1,614	1,473	622	964	40,434
Total ^a	127,444	122,987	127,492	97,730	82,312	76,384	74,972	81,814	87,554	55,864	77,707	684,939
Arctic-Yukon-Kuskokwim												
Upper Copper/Upper Susitna Drainages									2,812	5,182	3,842	14,809
Tanana River Drainages	74,675	64,143	72,024	37,547	49,693	33,400	35,625	48,975	33,833	38,292	48,226	140,379
Kuskokwim-Goodnews Drainages	757	475	774	404	486	299	429	529	1,336	523	510	26,254
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 ^a	75,432	64,618	72,798	37,951	50,179	33,699	36,054	49,504	37,981	43,997	52,578	181,442
Alaska Total	209,961	191,809	205,642	139,973	136,681	112,261	112,681	133,229	127,661	102,403	132,481	883,235

^a 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, 1989-1999, and catch, 1999, by region and area.

Area Fished	Harvest											Catch 1999
	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	
Southeast												
Ketchikan	3,780	3,739	2,456	1,721	2,480	821	643	1,176	630	606	785	7,187
Prince of Wales Island	4,553	2,535	1,292	1,987	987	1,118	1,429	878	450	1,310	1,388	5,785
Kake, Petersburg, Wrangell, Stikine	3,555	3,725	1,823	3,746	3,357	1,597	588	876	681	1,282	1,030	6,865
Sitka	2,167	1,532	1,058	1,784	2,263	1,297	907	351	705	684	698	6,161
Juneau	3,057	2,873	1,774	2,564	5,516	1,261	772	1,130	847	577	366	4,801
Haines-Skagway	1,531	1,130	817	944	530	337	180	329	500	337	300	525
Glacier Bay	218	67	65	193	95	0	28	206	104	31	18	388
Yakutat	0	59	387	18	123	45	0	0	10	25	19	205
Total	18,861	15,660	9,672	12,957	15,351	6,476	4,547	4,946	3,927	4,852	4,604	31,917
Southcentral												
Upper Copper/Upper Susitna Drainages	0	0	0	0	0	0	0	0				
Prince William Sound	1,511	523	416	1,015	940	612	122	707	642	717	449	1,232
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^a	1,511	523	416	1,015	940	612	122	707	642	717	449	1,232
Arctic-Yukon-Kuskokwim												
Upper Copper/Upper Susitna Drainages									0	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^a	0	0	0	0	0	0	0	0	0	0	0	0
Alaska Total	20,372	16,183	10,088	13,972	16,291	7,088	4,669	5,653	4,569	5,569	5,053	33,149

^a 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, 1989-1999, and catch, 1999, by region and area.

Area Fished	Harvest											Catch
	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	1999
Southeast												
Ketchikan	195	16	25	97	67	107	85	0	6	0	29	232
Prince of Wales Island	0	0	0	0	0	0	0	0	0	0	0	0
Kake, Petersburg, Wrangell, Stikine	59	16	178	0	22	9	0	37	0	0	0	0
Sitka	352	307	66	118	134	71	189	73	0	0	54	839
Juneau	169	17	114	292	182	232	0	113	6	0	14	41
Haines-Skagway	112	94	94	519	357	62	0	0	155	10	15	182
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	887	450	477	1,026	762	481	274	223	167	10	112	1,294
Southcentral												
Upper Copper/Upper Susitna Drainages	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^a	0	0	0	0	0	0	0	0	0	0	0	0
Arctic-Yukon-Kuskokwim												
Upper Copper/Upper Susitna Drainages									0	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^a	0	0	0	0	0	0	0	0	0	0	0	0
Alaska Total	887	450	477	1,026	762	481	274	223	167	10	112	1,294

^a 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, 1989-1999, and catch, 1999, by region and area.

Area Fished	Harvest											Catch
	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	1999
Southeast												
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
Southcentral												
Upper Copper/Upper Susitna Drainages	7,147	5,503	4,864	4,251	4,569	4,058	2,934	2,632				
Prince William Sound	310	49	154	0	126	0	20	0	0	0	0	0
Knik Arm Drainage	835	1,067	512	840	201	66	118	76	20	68	108	237
Anchorage	0	0	0	0	0	0	0	0	0	0	921	5,226
East Susitna River Drainage	1,210	387	726	495	288	239	254	308	189	217	222	1,766
West Cook Inlet-West Susitna River Drainages	352	202	289	363	296	190	143	120	424	82	81	650
Kenai Peninsula	2,002	2,566	3,443	3,378	3,805	3,186	2,887	3,540	2,216	2,415	2,920	8,253
Kodiak	0	0	0	0	0	0	0	0	0	0	0	0
Naknek River Drainage-Alaska Peninsula	320	143	272	264	325	500	243	458	444	165	413	1,522
Kvichak River Drainage	696	656	324	642	575	964	258	390	338	219	759	2,440
Nushagak	593	286	155	101	311	340	223	356	566	162	393	3,565
Total ^a	13,465	10,859	10,739	10,334	10,496	9,543	7,080	7,880	4,197	3,328	5,817	23,659
Arctic-Yukon-Kuskokwim												
Upper Copper/Upper Susitna Drainages									1,923	1,723	2,135	14,184
Tanana River Drainages	1,650	896	1,978	993	1,939	1,582	887	877	832	524	1,145	4,480
Kuskokwim-Goodnews Drainages	1,086	72	272	356	218	40	215	135	404	131	128	1,089
Seward Peninsula-Norton Sound Drainages	0	0	0	0	0	0	0	0	0	0	0	0
Northwest Alaska Drainages	115	387	173	270	234	77	126	166	73	31	101	255
Yukon River Drainages	272	220	434	193	101	59	66	9	0	27	545	1,330
North Slope Brooks Range Drainages	482	168	176	379	106	73	38	19	57	221	77	913
Total ^a	3,605	1,743	3,033	2,191	2,598	1,831	1,332	1,206	3,289	2,657	4,131	22,251
Alaska Total	17,070	12,602	13,772	12,525	13,094	11,374	8,412	9,086	7,486	5,985	9,948	45,910

^a 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, 1989-1999, and catch, 1999, by region and area.

Area Fished	Harvest											Catch 1999
	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	
Southeast												
Ketchikan	2,098	2,269	2,143	928	2,366	1,228	175	2,456	987	1,742	429	2,766
Prince of Wales Island	6,007	1,611	1,646	1,318	1,872	865	1,231	3,406	1,547	1,562	1,807	9,935
Kake, Petersburg, Wrangell, Stikine	4,458	5,013	2,365	2,948	1,265	1,655	1,072	1,623	1,207	1,467	1,409	5,604
Sitka	5,713	5,465	3,539	4,093	2,808	2,290	2,202	2,317	2,305	3,801	1,803	27,817
Juneau	13,987	12,233	11,929	7,201	7,923	5,189	6,358	5,282	6,407	5,124	4,950	20,797
Haines-Skagway	16,116	18,885	21,867	7,185	8,639	4,625	4,278	5,520	5,673	3,957	4,466	10,266
Glacier Bay	2,067	747	1,209	1,434	1,028	1,535	1,443	613	2,787	1,845	497	4,594
Yakutat	1,190	2,077	1,256	1,131	992	1,171	964	1,230	809	2,253	1,080	5,795
Total	51,636	48,300	45,954	26,238	26,893	18,558	17,723	22,447	21,722	21,751	16,441	87,574
Southcentral												
Upper Copper/Upper Susitna Drainages	3,979	3,159	2,140	1,997	3,173	1,598	1,695	2,575				
Prince William Sound	4,336	2,698	3,354	3,382	3,156	1,383	1,248	3,848	2,167	1,732	1,153	7,045
Knik Arm Drainage	8,161	8,746	9,138	4,186	3,686	3,532	2,109	5,606	4,639	2,425	3,798	8,974
Anchorage	2,646	2,208	2,539	3,269	1,793	2,500	1,633	1,994	1,590	1,895	2,047	4,799
East Susitna River Drainage	3,040	3,613	2,140	2,394	1,413	1,033	1,012	2,027	906	889	918	8,854
West Cook Inlet-West Susitna River Drainages	1,829	1,500	2,809	1,015	915	768	1,430	1,463	1,175	457	1,337	8,569
Kenai Peninsula	23,070	28,084	28,018	30,131	30,130	22,311	20,748	17,311	18,815	16,743	14,269	131,406
Kodiak	14,266	14,235	12,794	7,389	6,299	5,981	6,469	11,356	8,116	8,048	7,864	49,789
Naknek River Drainage-Alaska Peninsula	5,256	8,313	10,364	5,988	5,752	2,932	3,792	3,715	3,611	2,420	2,213	33,562
Kvichak River Drainage	615	952	1,183	868	866	1,006	678	1,024	2,121	459	459	7,623
Nushagak	3,021	2,484	2,390	2,752	2,539	2,212	2,259	3,310	3,328	2,540	2,548	43,721
Total^a	70,219	75,992	76,869	63,371	59,722	45,256	43,073	54,229	46,468	37,608	36,606	304,342
Arctic-Yukon-Kuskokwim												
Upper Copper/Upper Susitna Drainages									1,092	1,589	2,390	6,971
Tanana River Drainages	913	830	2,891	2,088	3,873	1,799	2,736	3,261	2,530	3,996	4,851	16,898
Kuskokwim-Goodnews Drainages	3,545	1,797	2,924	802	1,499	1,398	1,260	1,965	3,337	1,581	2,038	54,597
Seward Peninsula-Norton Sound Drainages	7,058	3,948	10,365	2,382	5,907	3,071	2,908	4,285	4,467	2,240	6,708	21,428
Northwest Alaska Drainages	999	806	1,717	682	914	2,365	939	913	598	440	796	8,259
Yukon River Drainages	726	391	675	672	528	488	122	881	344	205	203	2,104
North Slope Brooks Range Drainages	1,031	489	1,199	836	1,092	598	896	1,108	1,018	1,454	929	4,520
Total^a	14,272	8,261	19,771	7,462	13,813	9,719	8,861	12,413	13,386	11,505	17,915	114,777
Alaska Total	136,127	132,553	142,594	97,071	100,428	73,533	69,657	89,089	81,576	70,864	70,962	506,693

^a 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, 1989-1999, and catch, 1999, by region and area.

Area Fished	Harvest											Catch 1999
	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	
Southeast												
Ketchikan	182	224	0	91	0	0	0	0	0	25	172	698
Prince of Wales Island	0	0	0	0	0	0	0	0	0	0	0	0
Kake, Petersburg, Wrangell, Stikine	0	81	0	98	0	0	0	0	0	0	0	210
Sitka	11	0	18	8	95	53	9	12	0	8	56	56
Juneau	0	0	0	0	0	24	0	0	0	0	0	0
Haines-Skagway	0	63	63	225	0	0	0	291	0	25	0	242
Glacier Bay	0	0	0	0	0	0	0	0	0	0	0	0
Yakutat	21	0	0	90	0	0	0	0	0	0	0	0
Total	214	368	81	512	95	77	9	303	0	58	228	1,206
Southcentral												
Upper Copper/Upper Susitna Drainages	16,629	13,775	13,278	11,125	12,504	14,066	14,289	10,534				
Prince William Sound	368	294	497	77	283	318	139	131	119	15	246	363
Knik Arm Drainage	5,429	3,068	2,846	2,511	1,343	2,898	818	1,940	1,938	1,300	1,740	6,590
Anchorage	66	576	238	413	233	634	89	293	68	59	158	1,467
East Susitna River Drainage	4,562	2,910	3,875	2,189	2,401	3,484	1,486	1,913	1,387	1,413	1,614	13,324
West Cook Inlet-West Susitna River Drainages	2,247	2,192	3,393	1,647	1,422	1,662	895	1,871	1,100	1,007	781	10,781
Kenai Peninsula	1,133	913	1,472	775	1,268	1,636	1,863	1,071	1,318	897	1,104	10,244
Kodiak	189	86	98	120	16	41	0	0	0	0	0	0
Naknek River Drainage-Alaska Peninsula	1,089	416	649	482	682	352	227	301	530	233	191	8,372
Kvichak River Drainage	1,068	998	1,146	1,519	1,459	2,418	1,104	1,576	2,994	1,726	761	33,613
Nushagak	838	1,712	2,904	1,399	2,175	2,740	1,964	2,019	2,422	1,126	2,154	48,204
Total ^a	33,618	26,940	30,396	22,257	23,786	30,249	22,874	21,649	11,876	7,776	8,749	132,958
Arctic-Yukon-Kuskokwim												
Upper Copper/Upper Susitna Drainages									8,583	8,275	8,245	64,166
Tanana River Drainages	53,791	28,414	33,778	14,983	17,658	24,741	16,089	15,199	16,570	11,687	11,523	215,224
Kuskokwim-Goodnews Drainages	2,622	1,340	2,603	545	739	850	845	977	1,292	3,469	1,290	23,975
Seward Peninsula-Norton Sound Drainages	4,205	1,378	5,121	492	1,584	1,331	1,037	1,485	1,261	298	1,600	16,132
Northwest Alaska Drainages	1,415	622	1,981	968	916	814	910	2,136	1,903	1,788	1,247	15,481
Yukon River Drainages	7,491	4,961	5,570	4,171	3,330	4,574	3,421	4,000	3,456	3,912	3,164	18,432
North Slope Brooks Range Drainages	2,113	791	3,301	1,145	1,632	807	983	1,194	903	1,182	1,206	9,956
Total ^a	71,637	37,506	52,354	22,304	25,859	33,117	23,285	24,991	33,968	30,611	28,275	363,366
Alaska Total	105,469	64,814	82,831	45,073	49,740	63,443	46,168	46,943	45,844	38,445	37,252	497,530

^a 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, 1989-1999, and catch, 1999, by region and area.

Area Fished	Harvest											Catch
	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	1999
Southeast												
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	42	0	136	0	0	0	0	0	0	0	0	94
Total	42	0	136	0	0	0	0	0	0	0	0	94
Southcentral												
Upper Copper/Upper Susitna Drainages	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	863	754	2,709	2,605	2,102	1,328	522	4,021	4,858	4,272	6,785	14,231
Anchorage	0	0	0	0	0	0	0	183	220	337	243	726
East Susitna River Drainage	0	0	0	0	0	0	0	11	95	130	260	441
West Cook Inlet-West Susitna River Drainages	2,257	2,088	3,931	2,777	3,619	2,565	3,024	3,988	4,236	3,807	4,319	16,111
Kenai Peninsula	67	40	86	239	242	36	248	177	28	114	329	432
Kodiak	0	0	0	0	0	0	0	0	0	0	0	0
Naknek River Drainage-Alaska Peninsula	154	208	93	256	130	709	165	724	291	235	231	711
Kvichak River Drainage	211	191	635	658	291	372	334	617	148	311	644	3,073
Nushagak	882	374	1,250	779	747	790	1,030	782	613	389	516	5,545
Total ^a	4,434	3,655	8,704	7,314	7,131	5,800	5,323	10,503	10,489	9,595	13,327	41,270
Arctic-Yukon-Kuskokwim												
Upper Copper/Upper Susitna Drainages									0	0	0	0
Tanana River Drainages	11,170	7,348	12,476	6,148	7,712	16,299	10,620	8,327	3,328	2,870	2,925	17,786
Kuskokwim-Goodnews Drainages	1,785	231	2,018	752	995	828	655	871	408	1,430	548	5,643
Seward Peninsula-Norton Sound Drainages	648	1,957	1,429	479	537	376	215	728	363	75	355	2,217
Northwest Alaska Drainages	64	320	394	333	559	287	256	112	145	195	193	1,869
Yukon River Drainages	3,516	2,474	4,454	3,590	2,347	1,968	1,937	2,502	1,870	1,452	2,418	20,213
North Slope Brooks Range Drainages	0	0	0	0	85	0	0	0	0	0	0	0
Total ^a	17,183	12,330	20,771	11,302	12,235	19,758	13,683	12,540	6,114	6,022	6,439	47,728
Alaska Total	21,659	15,985	29,611	18,616	19,366	25,558	19,006	23,043	16,603	15,617	19,766	89,092

^a 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, 1989-1999, and catch, 1999, by region and area.

Area Fished	Harvest											Catch
	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	1999
Southeast												
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	61	16	60	18	0	0	0	0	4	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	61	16	60	18	0	0	0	0	4	0	0	0
Southcentral												
Upper Copper/Upper Susitna Drainages	2,991	1,784	717	1,150	815	1,149	898	384				
Prince William Sound	0	0	0	46	0	0	0	0	0	0	0	0
Knik Arm Drainage	844	622	900	257	227	242	71	16	96	356	7	131
Anchorage	0	181	7	0	0	0	0	0	0	0	0	0
East Susitna River Drainage	442	1,378	626	265	87	172	80	0	32	96	32	242
West Cook Inlet-West Susitna River Drainages	430	1,516	531	340	564	779	76	160	86	114	95	489
Kenai Peninsula	415	912	560	432	396	249	357	131	115	96	60	499
Kodiak	0	0	0	0	0	0	0	0	0	0	0	0
Naknek River Drainage-Alaska Peninsula	30	17	40	55	0	39	0	80	0	16	0	86
Kvichak River Drainage	60	618	136	221	95	159	266	392	690	533	68	205
Nushagak	132	850	315	101	296	211	119	52	361	263	15	28
Total ^a	5,344	7,878	3,832	2,867	2,480	3,000	1,867	1,215	1,380	1,474	277	1,680
Arctic-Yukon-Kuskokwim												
Upper Copper/Upper Susitna Drainages									134	584	317	907
Tanana River Drainages	16,935	6,891	739	3,246	984	940	493	412	1,062	853	235	1,353
Kuskokwim-Goodnews Drainages	571	88	158	286	253	183	0	0	614	1,220	9	109
Seward Peninsula-Norton Sound Drainages	453	299	1,357	46	95	67	247	64	212	0	9	94
Northwest Alaska Drainages	619	84	260	9	238	117	156	160	419	100	398	508
Yukon River Drainages	245	322	422	248	173	89	82	160	398	121	511	554
North Slope Brooks Range Drainages	109	17	0	18	0	58	18	36	0	0	68	68
Total ^a	18,932	7,701	2,936	3,853	1,743	1,454	996	832	2,839	2,878	1,547	3,593
Alaska Total	24,337	15,595	6,828	6,738	4,223	4,454	2,863	2,047	4,223	4,352	1,824	5,273

^a 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, 1989-1999, and catch, 1999, by region and area.

Area Fished	Harvest											Catch
	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	1999
Southeast												
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
Southcentral												
Upper Copper/Upper Susitna Drainages	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	372	262	477	500	482	512	151	218	709	121	369	817
Anchorage	0	0	0	0	0	0	0	0	0	0	0	0
East Susitna River Drainage	395	1,345	407	608	909	674	517	284	304	208	230	503
West Cook Inlet-West Susitna River Drainages	211	1,534	97	304	264	1,090	190	396	861	1,029	672	859
Kenai Peninsula	0	0	0	85	43	10	0	0	26	0	0	25
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	1,327	8	0	0
Kvichak River Drainage	0	100	53	0	0	10	0	138	348	212	77	77
Nushagak	0	17	0	0	0	0	0	13	0	0	25	32
Total ^a	4,374	5,094	1,827	2,992	3,392	5,165	1,853	2,030	3,575	1,578	1,373	2,313
Arctic-Yukon-Kuskokwim												
Upper Copper/Upper Susitna Drainages									1,358	1,485	1,861	3,173
Tanana River Drainages	4,357	3,799	2,739	3,620	5,717	5,165	4,934	3,203	6,348	3,291	3,148	4,572
Kuskokwim-Goodnews Drainages	12	1,125	40	169	214	20	0	0	0	136	228	228
Seward Peninsula-Norton Sound Drainages	10	33	116	0	96	0	45	179	148	84	97	109
Northwest Alaska Drainages	0	0	0	17	139	20	11	185	345	150	28	28
Yukon River Drainages	367	509	160	422	279	145	216	203	415	133	168	168
North Slope Brooks Range Drainages	148	17	0	25	21	353	69	41	0	25	0	0
Total ^a	4,894	5,483	3,055	4,253	6,466	5,703	5,275	3,811	8,614	5,304	5,530	8,278
Alaska Total	9,268	10,577	4,882	7,245	9,858	10,868	7,128	5,841	12,189	6,882	6,903	10,591

^a 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, 1989-1999, and catch, 1999, by region and area.

Area Fished	Harvest											Catch
	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	1999
Southeast												
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
Southcentral												
Upper Copper/Upper Susitna Drainages	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 ^a	0	0	0	0	0	0	0	0	0	0	0	0
Arctic-Yukon-Kuskokwim												
Upper Copper/Upper Susitna Drainages									0	0	0	0
Tanana River Drainages	554	169	158	184	100	166	310	231	35	24	114	173
Kuskokwim-Goodnews Drainages	296	107	154	292	54	390	272	107	589	119	268	1,381
Seward Peninsula-Norton Sound Drainages	0	0	0	0	0	0	0	73	0	0	7	7
Northwest Alaska Drainages	629	151	603	1,904	1,029	564	1,142	485	906	414	635	5,134
Yukon River Drainages	757	323	1,341	553	436	391	476	606	231	258	133	812
North Slope Brooks Range Drainages	70	0	0	0	0	0	0	0	0	0	0	0
Total ^a	2,306	750	2,256	2,933	1,619	1,511	2,200	1,502	1,761	815	1,157	7,507
Alaska Total	2,306	750	2,256	2,933	1,619	1,511	2,200	1,502	1,761	815	1,157	7,507

^a 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, 1989-1999, and catch, 1999, by region and area.

Area Fished	Harvest											Catch
	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	1999
Southeast												
Ketchikan	0	0	0	0	0	0	0	0	0	0	0	0
Prince of Wales Island	0	82	0	87	60	70	0	0	0	1,078	325	325
Kake, Petersburg, Wrangell, Stikine	2,257	0	0	54	131	138	791	666	4,205	2,137	2,708	2,708
Sitka	1,052	1,721	564	1,709	385	150	113	0	0	323	0	26
Juneau	294	172	24	1,558	0	117	0	0	273	180	1,354	1,354
Haines-Skagway	586	0	5,584	33,532	1,677	556	0	327	0	150	83	83
Glacier Bay	375	0	0	0	0	0	0	0	0	0	0	0
Yakutat	0	1,703	30	0	121	1,766	0	291	0	0	9	9
Total	4,564	3,678	6,202	36,940	2,374	2,797	904	1,284	4,478	3,868	4,479	4,505
Southcentral												
Upper Copper/Upper Susitna Drainages	0	0	0	0	0	0	0	0				
Prince William Sound	64	3,386	273	4,123	1,453	198	0	972	593	3,194	1,896	1,896
Knik Arm Drainage	0	0	0	0	0	2,292	0	0	0	0	2,708	2,722
Anchorage	103,881	133,027	69,257	42,964	29,865	49,279	34,058	21,212	39,071	33,637	44,597	45,016
East Susitna River Drainage	0	0	0	0	0	0	0	0	0	0	9,816	9,816
West Cook Inlet-West Susitna River Drainages	2,324	5,810	6,132	15,523	6,596	13,330	4,549	13,451	8,853	8,376	27,031	29,071
Kenai Peninsula	33,140	41,029	6,987	24,068	8,227	8,056	4,553	7,612	13,561	18,850	5,496	5,941
Kodiak	0	0	0	140	67	0	0	727	0	0	0	0
Naknek River Drainage-Alaska Peninsula	4,456	3,172	15,249	15,858	5,423	12,481	2,761	1,476	5,217	6,519	6,545	7,763
Kvichak River Drainage	0	0	0	0	0	0	0	0	0	0	0	0
Nushagak	56,973	2,257	5,916	6,923	3,790	10,188	4,814	11,560	2,890	2,552	2,531	2,531
Total ^a	200,838	188,681	103,814	109,599	55,421	95,824	50,735	57,010	70,185	73,128	100,620	104,756
Arctic-Yukon-Kuskokwim												
Upper Copper/Upper Susitna Drainages									0	0	0	0
Tanana River Drainages	0	0	0	0	0	0	0	0	0	0	0	0
Kuskokwim-Goodnews Drainages	1,324	211	0	1,136	3,343	2,292	633	2,181	27	3,333	0	874
Seward Peninsula-Norton Sound Drainages	410	995	1,699	865	335	5,157	633	174	2,801	0	3,046	3,046
Northwest Alaska Drainages	261	0	119	0	22	57	0	218	0	0	0	0
Yukon River Drainages	0	0	0	0	0	0	0	0	0	0	0	0
North Slope Brooks Range Drainages	429	503	0	0	0	0	0	0	0	0	0	0
Total ^a	2,424	1,709	1,818	2,001	3,700	7,506	1,266	2,573	2,828	3,333	3,046	3,920
Alaska Total	207,826	194,068	111,834	148,540	61,495	106,127	52,905	60,867	77,491	80,329	108,145	113,181

^a 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, 1989-1999, and catch, 1999, by region and area.

Area Fished	Harvest											Catch
	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	1999
Southeast												
Ketchikan	13,699	9,872	9,733	9,455	12,763	15,313	14,483	15,316	13,685	11,311	10,989	14,781
Prince of Wales Island	9,213	10,264	11,875	11,661	22,501	24,465	20,808	23,266	21,201	24,028	25,739	32,870
Kake, Petersburg, Wrangell, Stikine	5,548	5,768	6,433	6,153	5,984	7,992	9,488	10,234	10,417	8,995	8,133	13,711
Sitka	17,727	17,492	20,283	22,092	19,366	23,701	21,452	20,840	27,552	30,303	28,222	41,721
Juneau	20,273	16,248	13,637	14,850	16,340	10,362	15,145	16,414	21,282	14,553	15,522	24,290
Haines-Skagway	2,588	1,972	1,199	926	2,195	1,058	856	1,209	1,007	564	879	1,248
Glacier Bay	4,484	3,415	8,766	4,863	5,878	5,849	7,090	7,618	9,242	7,190	7,552	14,615
Yakutat	772	1,459	2,112	1,861	2,752	3,577	2,456	3,236	4,926	5,166	3,645	6,082
Total	74,304	66,490	74,038	71,861	87,779	92,317	91,778	98,133	109,312	102,110	100,681	149,318
Southcentral												
Upper Copper/Upper Susitna Drainages	0	0	0	0	0	0	0	0				
Prince William Sound	8,697	10,851	12,733	17,855	19,716	23,487	24,771	22,330	28,456	24,301	27,600	48,089
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	1,224	1,685	1,576	984	2,507	2,725	3,236	2,422	3,158	3,003	2,422	4,377
Kenai Peninsula	132,944	156,353	160,888	160,705	185,431	193,085	188,597	209,576	218,594	201,106	178,962	317,310
Kodiak	10,435	9,134	12,089	10,860	14,169	14,910	13,989	14,205	17,232	15,668	18,595	33,256
Naknek River Drainage-Alaska Peninsula	1,412	2,545	5,199	2,645	3,491	2,402	2,796	3,213	3,335	3,238	4,116	8,551
Kvichak River Drainage	0	0	0	0	0	0	0	0	0	0	13	13
Nushagak	0	0	0	0	0	0	0	0	0	0	0	0
Total ^a	154,712	180,568	192,485	193,049	225,314	236,609	233,389	251,746	270,775	247,316	231,708	411,596
Arctic-Yukon-Kuskokwim												
Upper Copper/Upper Susitna Drainages									0	0	0	0
Tanana River Drainages	0	0	0	0	0	0	0	0	0	0	0	0
Kuskokwim-Goodnews Drainages	0	144	0	33	54	45	21	145	50	315	0	0
Seward Peninsula-Norton Sound Drainages	0	0	0	0	0	75	0	196	119	723	248	279
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	20	20
North Slope Brooks Range Drainages	0	0	0	0	0	0	0	0	0	0	0	0
Total ^a	0	144	0	33	54	120	21	341	169	1,038	268	299
Alaska Total	229,016	247,202	266,523	264,943	313,147	329,046	325,188	350,220	380,256	350,464	332,657	561,213

^a 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, 1989-1999, and catch, 1999, by region and area.

Area Fished	Harvest											Catch 1999
	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	
Southeast												
Ketchikan	17,159	9,043	8,504	9,927	6,764	11,741	7,984	7,092	8,156	5,133	10,538	25,851
Prince of Wales Island	8,955	9,062	7,200	7,968	9,589	12,122	11,915	9,446	10,804	11,759	23,667	62,578
Kake, Petersburg, Wrangell, Stikine	1,726	1,150	1,222	1,838	2,070	2,298	1,870	1,085	1,760	2,678	3,778	9,371
Sitka	6,196	3,948	4,879	6,852	6,622	13,446	7,968	10,728	12,078	16,281	22,306	62,252
Juneau	4,638	1,881	3,408	3,532	5,717	3,271	3,438	3,008	4,735	5,570	8,379	20,376
Haines-Skagway	465	488	415	181	569	157	233	329	323	214	233	494
Glacier Bay	357	306	936	501	448	881	355	599	836	1,283	1,816	6,851
Yakutat	8	81	264	414	251	490	584	599	1,396	1,224	772	1,916
Total	39,504	25,959	26,828	31,213	32,030	44,406	34,347	32,886	40,088	44,142	71,489	189,689
Southcentral												
Upper Copper/Upper Susitna Drainages	0	0	0	0	0	0	0	0				
Prince William Sound	12,919	8,157	8,733	15,478	12,274	15,382	14,701	12,375	15,403	13,451	12,996	20,793
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	29,028	21,937	22,622	33,266	29,971	33,440	21,759	26,656	24,876	24,881	30,125	61,121
Kodiak	5,070	3,842	8,036	5,652	7,569	5,019	4,247	6,551	6,164	4,547	5,480	16,015
Naknek River Drainage-Alaska Peninsula	255	2,677	1,044	914	781	724	559	582	1,689	437	138	3,040
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^a	47,272	36,613	40,435	55,310	50,595	54,565	41,266	46,164	48,132	43,316	48,739	100,969
Arctic-Yukon-Kuskokwim												
Upper Copper/Upper Susitna Drainages									0	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^a	0	0	0	0	0	0	0	0	0	0	0	0
Alaska Total	86,776	62,572	67,263	86,523	82,625	98,971	75,613	79,050	88,220	87,458	120,228	290,658

^a 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, 1991-1999, and catch, 1999, by region and area.

Area Fished	Harvest									Catch 1999
	1991	1992	1993	1994	1995	1996	1997	1998	1999	
Southeast										
Ketchikan	1,977	2,381	2,171	2,520	1,616	1,765	1,933	1,346	1,560	2,609
Prince of Wales Island	3,245	4,048	6,422	7,627	5,443	5,936	5,294	7,724	8,963	12,508
Kake, Petersburg, Wrangell, Stikine	201	486	653	495	402	275	355	580	436	1,299
Sitka	2,448	4,683	3,901	7,836	4,613	6,592	6,713	6,763	8,186	12,547
Juneau	1,047	1,129	840	630	233	413	1,427	350	1,633	5,169
Haines-Skagway	353	102	268	129	23	7	40	20	57	198
Glacier Bay	327	56	216	139	149	284	197	229	254	1,301
Yakutat	160	308	498	693	624	1,137	2,073	1,029	1,163	1,461
Total	9,758	13,193	14,969	20,069	13,103	16,409	18,032	18,041	22,252	37,092
Southcentral										
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	2,260	1,913	7,039
Knik Arm Drainage	0	0	0	0	0	0	0	0	0	0
Anchorage	0	93	0	0	0	0	0	0	0	0
East Susitna River Drainage	0	0	0	0	0	0	0	0	0	0
West Cook Inlet-West Susitna River Drainages	35	0	45	56	28	134	52	102	39	91
Kenai Peninsula	8,932	11,280	4,715	4,896	3,738	4,701	4,929	3,542	4,608	14,810
Kodiak	1,352	1,454	922	1,014	932	1,074	1,277	1,322	1,726	3,632
Naknek River Drainage-Alaska Peninsula	993	299	198	185	75	9	427	45	27	282
Kvichak River Drainage	0	0	0	0	0	0	0	0	0	0
Nushagak	0	0	0	0	0	0	0	0	0	0
Total	13,291	15,701	7,888	7,809	7,089	7,953	10,273	7,271	8,313	25,854
Arctic-Yukon-Kuskokwim										
Upper Copper/Upper Susitna Drainages							0	0	0	0
Tanana River Drainages	0	0	0	0	0	0	0	0	0	0
Kuskokwim-Goodnews Drainages	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
Northwest Alaska Drainages	0	0	0	0	0	0	0	0	0	0
Yukon River Drainages	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
Total	0	0	0	0	0	0	0	0	0	0
Alaska Total	23,049	28,894	22,857	27,878	20,192	24,362	28,305	25,312	30,565	62,946

^a 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, 1989-1999, and catch, 1999, by region and area.

Area Fished	Harvest											Catch
	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	1999
Southeast												
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	5,104	4,428	618	2,445	1,001	928	2,004	228	141	126	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	5,104	4,428	618	2,445	1,001	928	2,004	228	141	126	0	0
Southcentral												
Upper Copper/Upper Susitna Drainages	0	0	0	0	0	0	0	0				
Prince William Sound	4,243	5,235	2,692	26,307	6,629	3,572	2,105	1,837	72	420	523	523
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	57,603	48,752	27,658	31,066	39,989	22,239	14,878	19,688	16,395	11,260	16,136	16,136
Kenai Peninsula	849,536	979,353	1,176,43	1,176,34	963,054	1,286,61	1,180,95	820,864	833,160	648,235	756,215	756,215
Kodiak	1,477	173	119	973	1,286	4,322	0	1,366	235	178	884	884
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^a	912,859	1,033,51	1,206,90	1,234,69	1,010,95	1,316,74	1,197,94	843,755	849,862	660,093	773,758	773,758
Arctic-Yukon-Kuskokwim												
Upper Copper/Upper Susitna Drainages									0	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^a	0	0	0	0	0	0	0	0	0	0	0	0
Alaska Total	917,963	1,037,94	1,207,52	1,237,14	1,011,95	1,317,67	1,199,94	843,983	850,003	660,219	773,758	773,758

^a 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, 1989-1999, and catch, 1999, of other fish by region and area.

Area Fished	Harvest											Catch
	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	1999
Southeast												
Ketchikan	3,312	2,571	2,515	477	2,285	2,297	3,610	1,002	354	165	255	1,650
Prince of Wales Island	447	2,653	518	876	2,438	1,173	2,174	423	388	835	1,677	3,838
Kake, Petersburg, Wrangell, Stikine	3,997	4,080	1,217	1,050	1,819	2,135	2,383	441	3,568	637	360	1,235
Sitka	1,983	7,850	2,691	2,488	1,979	233	3,534	686	282	1,010	894	3,298
Juneau	5,952	1,754	3,860	3,050	2,046	809	1,341	443	1,051	482	658	7,119
Haines-Skagway	728	838	3,335	508	2,463	244	461	240	17	278	73	171
Glacier Bay	1,040	200	68	292	197	72	10	345	67	2,641	11	1,923
Yakutat	120	221	0	151	10	237	20	0	33	60	12	363
Total	17,579	20,167	14,204	8,892	13,237	7,200	13,533	3,580	5,760	6,108	3,940	19,597
Southcentral												
Upper Copper/Upper Susitna Drainages	0	0	47	11	9	128	30	0				
Prince William Sound	20,466	6,444	4,992	7,445	7,964	1,722	6,237	2,646	2,508	4,943	2,297	5,359
Knik Arm Drainage	0	99	0	790	176	163	0	38	69	45	53	199
Anchorage	248	0	297	649	392	1,129	541	102	441	764	13	125
East Susitna River Drainage	15	67	16	76	49	166	61	63	84	17	0	53
West Cook Inlet-West Susitna River Drainages	47	51	1,351	22	87	168	30	0	117	35	7	799
Kenai Peninsula	31,069	43,691	9,277	10,021	5,275	4,016	4,425	3,069	2,695	2,392	2,171	7,486
Kodiak	1,757	2,657	2,995	1,062	1,618	1,578	1,467	1,088	467	1,170	346	529
Naknek River Drainage-Alaska Peninsula	222	1,757	1,588	1,191	946	230	304	233	149	354	366	1,556
Kvichak River Drainage	17	0	0	32	80	475	0	0	0	0	0	342
Nushagak	0	17	48	184	63	76	0	0	279	0	66	190
Total ^a	53,841	54,783	20,611	21,483	16,659	9,851	13,095	7,239	6,809	9,720	5,319	16,638
Arctic-Yukon-Kuskokwim												
Upper Copper/Upper Susitna Drainages									56	0	0	58
Tanana River Drainages	130	34	303	0	79	175	367	126	108	104	0	40
Kuskokwim-Goodnews Drainages	0	0	95	11	589	18	20	0	8	0	27	27
Seward Peninsula-Norton Sound Drainages	33	580	1,385	909	549	865	203	13	285	924	2,546	2,645
Northwest Alaska Drainages	174	0	0	216	177	0	357	633	0	152	300	498
Yukon River Drainages	34	0	0	0	0	503	603	19	8	0	0	0
North Slope Brooks Range Drainages	0	0	0	0	0	0	0	0	0	0	0	20
Total ^a	371	614	1,783	1,136	1,394	1,561	1,550	791	465	1,180	2,873	3,288
Alaska Total	71,791	75,564	36,598	31,511	31,290	18,612	28,178	11,610	13,034	17,008	12,132	39,523

^a 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^a sport fish harvest and effort by fisheries and species^b, 1999.

	Days																				
	Anglers	Trips	Fished	KI ^c	KS ^c	SS	RS	KO	PS	CS	DV	SH	RT	CT	BT	GR	SM	HA	RF	LC	OTHER
SALTWATER:																					
Boat - East, West Behm Canals	7,895	10,863	20,933	0	1,547	16,574	522	0	13,553	789	0	0	0	0	0	0	0	2,554	3,114	486	105
Boat - Clarence Strait	4,923	9,623	15,584	0	803	11,829	118	0	4,659	756	0	0	0	0	0	0	0	3,721	2,428	251	118
Boat - Revilla Channel	9,787	16,147	24,155	0	3,997	11,745	368	0	8,576	1,041	23	0	0	0	0	0	0	2,916	3,228	499	32
Boat - Tongass Narrows	2,703	4,979	9,008	37	762	3,682	107	0	2,235	108	0	0	0	0	0	0	0	445	709	62	0
Boat - Yes Bay	823	601	1,254	0	161	1,749	722	0	316	170	11	0	0	0	0	0	0	215	99	50	0
Boat - Bell Island	729	710	1,311	0	36	1,024	11	0	627	78	0	0	0	0	0	0	0	164	0	25	0
Boat - Other	2,924	2,057	3,619	0	447	4,460	118	0	2,804	263	0	0	0	0	0	0	0	867	386	174	0
Shoreline - Mountain Point	483	293	644	0	0	44	0	0	345	0	0	0	0	0	0	0	0	0	138	13	0
Shoreline - Other	790	1,183	1,745	0	92	454	0	0	681	32	0	0	0	0	0	0	0	107	436	0	0
SALTWATER TOTAL	24,876^d	46,456	78,253	37	7,845	51,561	1,966	0	33,796	3,237	34	0	0	0	0	0	0	10,989	10,538	1,560	255
FRESHWATER:																					
Naha River	536	663	1,109	0	0	0	107	0	92	0	11	8	73	26	0	0	0	0	0	0	0
Ward Cove Creek	582	898	1,301	0	0	370	11	0	543	63	11	16	0	0	0	0	0	0	0	0	0
Ketchikan Creek	639	1,070	1,433	22	12	472	11	0	629	27	0	0	47	0	0	0	0	0	0	0	0
Other Streams	1,094	1,119	3,161	0	0	489	0	0	991	251	204	16	101	398	0	34	0	0	0	0	0
Ward Lake	427	760	901	0	0	0	0	0	0	0	112	0	120	10	0	0	0	0	0	0	0
Other Lakes	1,013	901	2,338	0	0	108	0	0	0	0	57	0	317	351	29	138	0	0	0	0	0
FRESHWATER TOTAL	3,401^d	5,411	10,243	22	12	1,439	129	0	2,255	341	395	40	658	785	29	172	0	0	0	0	0
GRAND TOTAL	26,647^d	51,867	88,496	59	7,857	53,000	2,095	0	36,051	3,578	429	40	658	785	29	172	0	10,989	10,538	1,560	255

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

^b Refer to Appendix A3 for common names and species abbreviations.

^c KI is chinook salmon less than 28 inches. KS is chinook salmon 28 inches and over.

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

Appendix A52.-Ketchikan Area^a standard errors^b of sport fish harvest and effort by fisheries and species^c, 1999.

	Days		KI ^d	KS ^d	SS	RS	KO	PS	CS	DV	SH	RT	CT	BT	GR	SM	HA	RF	LC	OTHER	
	Trips	Fished																			
SALTWATER:																					
Boat - East, West Behm Canals	1,142	2,537	0	386	1,931	289	0	2,737	201	0	0	0	0	0	0	0	0	404	626	128	86
Boat - Clarence Strait	1,200	1,820	0	192	1,734	51	0	899	392	0	0	0	0	0	0	0	0	633	557	99	92
Boat - Revilla Channel	1,383	2,193	0	661	1,996	165	0	1,128	305	22	0	0	0	0	0	0	0	445	666	140	26
Boat - Tongass Narrows	1,309	2,504	38	360	808	109	0	523	51	0	0	0	0	0	0	0	0	126	285	27	0
Boat - Yes Bay	140	359	0	68	770	348	0	167	120	11	0	0	0	0	0	0	0	102	85	36	0
Boat - Bell Island	162	420	0	21	465	11	0	369	41	0	0	0	0	0	0	0	0	74	0	25	0
Boat - Other	231	464	0	109	1,054	68	0	647	123	0	0	0	0	0	0	0	0	248	164	148	0
Shoreline - Mountain Point	90	206	0	0	44	0	0	234	0	0	0	0	0	0	0	0	0	0	113	14	0
Shoreline - Other	325	436	0	56	312	0	0	500	21	0	0	0	0	0	0	0	0	59	415	0	0
SALTWATER TOTAL	2,679	4,918	38	875	3,680	507	0	3,339	557	25	0	0	0	0	0	0	0	933	1,250	256	126
FRESHWATER:																					
Naha River	172	266	0	0	0	110	0	78	0	12	8	40	19	0	0	0	0	0	0	0	0
Ward Cove Creek	229	334	0	0	160	10	0	352	62	11	16	0	0	0	0	0	0	0	0	0	0
Ketchikan Creek	343	414	23	13	368	11	0	417	26	0	0	29	0	0	0	0	0	0	0	0	0
Other Streams	203	895	0	0	222	0	0	420	194	126	16	58	232	0	33	0	0	0	0	0	0
Ward Lake	225	256	0	0	0	0	0	0	0	81	0	81	10	0	0	0	0	0	0	0	0
Other Lakes	174	437	0	0	65	0	0	0	0	34	0	132	125	29	139	0	0	0	0	0	0
FRESHWATER TOTAL	577	1,169	23	13	458	110	0	679	208	158	24	176	262	29	145	0	0	0	0	0	0
GRAND TOTAL	2,750	5,013	43	875	3,685	522	0	3,425	590	160	24	176	262	29	145	0	933	1,250	256	126	

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

^b 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.

^c Refer to Appendix A3 for common names and species abbreviations.

^d KI is chinook salmon less than 28 inches. KS is chinook salmon 28 inches and over.

Appendix A53.-Prince of Wales Island Area^a sport fish harvest and effort by fisheries and species^b, 1999.

	Anglers	Trips	Days																	
			Fished	KI ^c	KS ^c	SS	RS	KO	PS	CS	DV	SH	RT	CT	GR	SM	HA	RF	LC	OTHER
SALTWATER:																				
Boat - Thorne Bay	259	401	766	0	37	769	0	0	461	0	0	0	0	0	0	0	89	343	0	12
Boat - Waterfall Bay	1,849	2,070	4,864	0	1,515	11,538	160	0	1,040	16	0	0	0	0	0	0	5,049	1,215	1,698	0
Boat - Eastside Prince of Wales Island	3,413	10,237	16,951	0	1,171	13,188	889	0	5,573	711	0	0	0	0	0	0	3,774	6,383	737	124
Boat - Westside Prince of Wales Island	6,787	16,966	27,240	0	4,993	39,209	528	0	4,655	46	0	0	0	136	0	325	14,973	13,761	5,797	1,454
Boat - Other	1,398	2,882	5,121	0	802	5,126	0	0	911	77	0	0	0	0	0	0	1,841	1,923	719	37
Shoreline	737	1,634	2,894	0	0	1,666	22	0	553	0	307	0	0	60	0	0	13	42	12	50
SALTWATER TOTAL	13,493^d	34,190	57,836	0	8,518	71,496	1,599	0	13,193	850	307	0	0	196	0	325	25,739	23,667	8,963	1,677
FRESHWATER:																				
Thorne System (Stream, Lake)	1,560	3,682	5,264	0	0	1,308	0	0	1,952	0	271	8	12	378	0	0	0	0	0	0
Sweetwater System (Stream, Lake)	504	619	835	0	0	642	1,149	0	0	0	0	8	0	28	0	0	0	0	0	0
Other Systems	367	258	709	0	0	171	613	0	158	0	23	0	12	0	0	0	0	0	0	0
Karta River	426	536	1,029	0	0	61	343	0	0	0	44	24	84	10	0	0	0	0	0	0
Klawock River	778	1,429	2,085	0	0	242	0	0	158	0	637	16	105	165	0	0	0	0	0	0
Staney Creek	852	936	1,616	0	0	537	0	0	619	31	23	0	0	0	0	0	0	0	0	0
Harris River	523	1,046	1,317	0	0	480	0	0	581	47	143	0	0	0	0	0	0	0	0	0
Other Streams	1,290	2,450	3,748	0	0	1,157	247	0	1,090	47	155	0	263	240	0	0	0	0	0	0
Other Lakes	571	515	1,418	0	0	458	0	0	237	0	204	0	24	371	0	0	0	0	0	0
FRESHWATER TOTAL	4,036^d	11,471	18,021	0	0	5,056	2,352	0	4,795	125	1,500	56	500	1,192	0	0	0	0	0	0
GRAND TOTAL	15,397^d	45,661	75,857	0	8,518	76,552	3,951	0	17,988	975	1,807	56	500	1,388	0	325	25,739	23,667	8,963	1,677

^a 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.

^b Refer to Appendix A3 for common names and species abbreviations.

^c KI is chinook salmon less than 28 inches. KS is chinook salmon 28 inches and over.

^d 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^a standard errors^b of sport fish harvest and effort by fisheries and species^c, 1999.

	Days		KI ^d	KS ^d	SS	RS	KO	PS	CS	DV	SH	RT	CT	GR	SM	HA	RF	LC	OTHER
	Trips	Fished																	
SALTWATER:																			
Boat - Thorne Bay	185	278	0	29	369	0	0	287	0	0	0	0	0	0	0	60	200	0	13
Boat - Waterfall Bay	321	642	0	275	1,810	104	0	240	15	0	0	0	0	0	0	670	331	349	0
Boat - Eastside Prince of Wales Island	1,573	2,458	0	213	1,968	523	0	1,075	249	0	0	0	0	0	0	482	1,651	187	97
Boat - Westside Prince of Wales Island	1,999	2,586	0	565	3,838	218	0	748	26	0	0	0	100	0	309	1,323	2,245	930	1,300
Boat - Other	770	1,029	0	202	1,129	0	0	287	51	0	0	0	0	0	0	390	734	169	36
Shoreline	457	662	0	0	631	22	0	386	0	272	0	0	58	0	0	13	43	13	50
SALTWATER TOTAL	2,722	3,763	0	678	4,714	573	0	1,430	254	272	0	0	117	0	309	1,592	2,949	1,013	1,301
FRESHWATER:																			
Thorne System (Stream, Lake)	871	1,067	0	0	373	0	0	811	0	99	8	12	173	0	0	0	0	0	0
Sweetwater System (Stream, Lake)	146	190	0	0	274	381	0	0	0	0	8	0	22	0	0	0	0	0	0
Other Systems	77	284	0	0	112	300	0	110	0	22	0	12	0	0	0	0	0	0	0
Karta River	196	300	0	0	44	186	0	0	0	43	18	64	9	0	0	0	0	0	0
Klawock River	392	587	0	0	91	0	0	93	0	399	15	77	154	0	0	0	0	0	0
Staney Creek	181	319	0	0	220	0	0	386	32	22	0	0	0	0	0	0	0	0	0
Harris River	310	346	0	0	204	0	0	429	48	127	0	0	0	0	0	0	0	0	0
Other Streams	618	1,139	0	0	375	129	0	571	35	119	0	115	126	0	0	0	0	0	0
Other Lakes	113	552	0	0	204	0	0	172	0	103	0	23	204	0	0	0	0	0	0
FRESHWATER TOTAL	1,240	1,919	0	0	724	529	0	1,166	70	468	26	155	336	0	0	0	0	0	0
GRAND TOTAL	3,084	4,338	0	678	4,728	797	0	1,791	264	541	26	155	352	0	309	1,592	2,949	1,013	1,301

^a 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.

^b 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.

^c Refer to Appendix A3 for common names and species abbreviations.

^d KI is chinook salmon less than 28 inches. KS is chinook salmon 28 inches and over.

Appendix A55.-Kake, Petersburg, Wrangell, Stikine Area^a sport fish harvest and effort by fisheries and species^b, 1999.

	Days																					
	Angle	Trips	Fished	KI ^c	KS ^c	SS	RS	KO	PS	CS	DV	SH	RT	CT	BT	GR	WF	SM	HA	RF	LC	OTHER
SALTWATER:																						
Boat - Terminal Harvest Area near Petersburg (in Wrangell Narrows)	1,390	3,260	5,163	507	1,428	1,270	0	0	224	0	146	0	0	0	0	0	0	2,708	474	28	0	0
Boat - Frederick Sound near Petersburg	3,021	6,391	9,380	0	1,392	1,559	64	0	721	182	176	0	0	97	0	0	0	0	2,919	1,027	88	310
Boat - Rest of Petersburg Area	1,097	2,561	4,529	127	646	1,023	64	0	211	16	34	0	0	36	0	0	0	0	1,481	224	87	0
Boat - Wrangell Area	2,574	6,509	10,089	0	1,927	3,151	65	0	580	105	143	0	0	0	0	0	0	0	1,219	378	47	0
Boat - Kake Area	739	1,272	2,145	0	70	631	162	0	356	449	0	0	0	0	0	0	0	0	866	1,074	165	0
Boat - Sumner Strait	275	287	577	0	44	0	0	0	0	0	0	0	0	0	0	0	0	0	262	28	12	0
Boat - Other	1,498	3,365	6,250	0	424	3,426	141	0	1,320	193	261	0	0	0	0	0	0	0	881	963	37	25
Shoreline - Petersburg Road System	285	393	564	180	192	88	0	0	0	0	0	0	0	19	0	0	0	0	0	0	0	0
Shoreline - Other	527	1,043	1,916	25	197	539	0	0	13	0	132	0	0	45	0	0	0	0	31	56	0	0
SALTWATER TOTAL	8,785^d	25,081	40,613	839	6,320	11,687	496	0	3,425	945	892	0	0	197	0	0	0	2,708	8,133	3,778	436	335
FRESHWATER:																						
Blind Slough (in Wrangell Narrows)	1,052	2,625	3,821	1,251	1,092	415	33	0	1,214	16	100	0	0	93	0	0	0	0	0	0	0	0
Petersburg Creek	289	473	616	0	0	44	0	0	24	19	21	0	0	10	0	0	0	0	0	0	0	0
Stikine River	342	495	1,590	0	0	0	0	0	0	81	101	0	0	152	0	0	0	0	0	0	0	0
Other Streams	978	2,246	3,448	0	0	537	225	0	468	81	295	47	35	238	0	0	0	0	0	0	0	25
Lakes	364	643	942	0	0	80	0	0	0	0	0	0	24	330	0	0	0	0	0	0	0	0
Systems	123	114	155	0	0	0	0	0	13	0	0	0	0	10	0	0	0	0	0	0	0	0
FRESHWATER TOTAL	2,529^d	6,596	10,572	1,251	1,092	1,076	258	0	1,719	197	517	47	59	833	0	0	0	0	0	0	0	25
GRAND TOTAL	9,536^d	31,677	51,185	2,090	7,412	12,763	754	0	5,144	1,142	1,409	47	59	1,030	0	0	0	2,708	8,133	3,778	436	360

^a 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.

^b Refer to Appendix A3 for common names and species abbreviations.

^c KI is chinook salmon less than 28 inches. KS is chinook salmon 28 inches and over.

^d 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^a standard errors^b of sport fish harvest and effort by fisheries and species^c, 1999.

	Days		KI ^d	KS ^d	SS	RS	KO	PS	CS	DV	SH	RT	CT	BT	GR	WF	SM	HA	RF	LC	OTHER
	Trips	Fished																			
SALTWATER:																					
Boat - Terminal Harvest Area near Petersburg (in Wrangell Narrows)	642	975	158	337	596	0	0	133	0	86	0	0	0	0	0	0	2,732	153	29	0	0
Boat - Frederick Sound near Petersburg	955	1,291	0	278	549	62	0	252	141	128	0	0	101	0	0	0	0	511	335	41	314
Boat - Rest of Petersburg Area	671	1,193	83	248	474	64	0	132	16	34	0	0	26	0	0	0	0	369	162	65	0
Boat - Wrangell Area	1,061	1,427	0	338	664	47	0	466	83	113	0	0	0	0	0	0	0	253	179	29	0
Boat - Kake Area	368	640	0	38	243	167	0	194	316	0	0	0	0	0	0	0	0	255	551	63	0
Boat - Sumner Strait	91	212	0	30	0	0	0	0	0	0	0	0	0	0	0	0	0	105	29	13	0
Boat - Other	839	1,652	0	162	1,071	98	0	725	146	236	0	0	0	0	0	0	0	196	354	37	25
Shoreline - Petersburg Road System	138	183	89	128	74	0	0	0	0	0	0	0	20	0	0	0	0	0	0	0	0
Shoreline - Other	335	716	24	115	438	0	0	14	0	70	0	0	36	0	0	0	0	32	55	0	0
SALTWATER TOTAL	1,913	3,002	200	624	1,634	215	0	955	386	315	0	0	113	0	0	0	2,732	746	760	113	314
FRESHWATER:																					
Blind Slough (in Wrangell Narrows)	544	974	600	284	146	24	0	1,057	16	59	0	0	50	0	0	0	0	0	0	0	0
Petersburg Creek	175	199	0	0	35	0	0	25	19	20	0	0	9	0	0	0	0	0	0	0	0
Stikine River	218	1,124	0	0	0	0	0	0	80	69	0	0	111	0	0	0	0	0	0	0	0
Other Streams	513	632	0	0	226	136	0	208	80	170	33	34	88	0	0	0	0	0	0	0	24
Lakes	233	287	0	0	77	0	0	0	0	0	0	24	160	0	0	0	0	0	0	0	0
Systems	52	66	0	0	0	0	0	13	0	0	0	0	10	0	0	0	0	0	0	0	0
FRESHWATER TOTAL	826	1,639	600	284	283	139	0	1,068	115	194	33	41	213	0	0	0	0	0	0	0	24
GRAND TOTAL	2,078	3,407	641	701	1,656	255	0	1,464	408	370	33	41	242	0	0	0	2,732	746	760	113	315

^a 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.

^b 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.

^c Refer to Appendix A3 for common names and species abbreviations.

^d KI is chinook salmon less than 28 inches. KS is chinook salmon 28 inches and over.

Appendix A57.-Sitka Area^a sport fish harvest and effort by fisheries and species^b, 1999.

	Anglers	Trips	Days																			
			Fished	KI ^c	KS ^c	SS	RS	KO	PS	CS	DV	SH	RT	CT	BT	GR	SM	HA	RF	LC	RCL	OTHER
SALTWATER:																						
Boat - Crescent Bay (Sheldon Jackson Hatchery Area)	1,629	2,115	3,994	0	1,221	3,618	0	0	303	0	0	0	0	0	0	0	0	1,144	635	349	0	0
Boat - Starrigavan Bay	1,364	2,080	3,391	0	719	3,625	0	0	778	16	11	0	0	0	0	0	0	1,362	1,003	275	0	0
Boat - Silver Bay	1,293	2,873	4,922	309	819	553	85	0	27	57	0	0	0	0	0	0	0	325	1,695	237	0	20
Boat - Other Sitka Sound, incl. Vitskari Island	11,196	20,442	32,521	0	13,048	30,852	4,308	0	3,151	1,109	60	0	0	0	0	0	0	10,868	9,448	3,706	0	90
Boat - Salisbury Sound	3,026	4,963	8,253	0	3,688	6,316	139	0	298	111	0	0	0	0	0	0	0	1,744	1,318	558	0	46
Boat - Icy Straight	699	953	2,136	0	24	727	0	0	461	30	0	0	0	0	0	0	0	1,178	142	100	0	0
Boat - Hoonah Area	284	541	1,274	0	72	448	77	0	136	0	0	0	0	0	0	0	0	294	101	0	0	0
Boat - Chatham Strait	481	804	1,099	0	170	832	0	0	280	0	0	0	0	0	0	0	0	461	662	49	0	0
Boat - Cross Sound	639	870	1,724	0	381	1,674	21	0	385	31	0	0	0	0	0	0	0	651	597	378	0	50
Boat - Elfin Cove	667	761	1,770	0	277	2,330	21	0	843	0	11	0	0	0	0	0	0	1,214	854	514	0	0
Boat - Kruzof Island	1,101	1,627	2,894	0	1,840	3,791	0	0	66	16	0	0	0	0	0	0	0	2,003	745	387	0	0
Boat - Tenakee Inlet	657	1,964	3,313	0	264	1,199	214	0	233	0	11	0	0	0	0	0	0	202	288	12	0	0
Boat - Other	6,376	8,595	17,016	0	3,984	13,568	1,341	0	2,100	249	55	0	0	43	0	0	0	5,140	3,844	1,231	0	7
Shoreline - Crescent Bay (Sheldon Jackson Hatchery Area)	409	1,029	1,653	0	0	0	0	0	120	0	234	0	0	0	0	0	0	0	0	0	0	424
Shoreline - Starrigavan Bay	772	1,065	2,143	0	25	190	0	0	1,090	31	22	0	0	0	0	0	0	38	14	0	0	25
Shoreline - Other Sitka Sound	1,482	2,405	3,376	12	1,025	2,792	237	0	514	30	275	0	0	0	0	0	0	1,071	766	353	0	232
Shoreline - Other	1,076	2,819	5,310	0	670	2,535	486	0	552	0	224	0	0	0	0	0	0	527	194	37	0	0
SALTWATER TOTAL	26,980 ^d	55,906	96,789	321	28,227	75,050	6,929	0	11,337	1,680	903	0	0	43	0	0	0	28,222	22,306	8,186	0	894
FRESHWATER:																						
Baranof System (Lake, Stream)	320	363	498	0	0	0	0	0	0	0	33	0	0	95	0	0	0	0	0	0	0	0
Sitkoh System (Lake, Stream)	526	391	1,304	0	0	24	0	0	53	0	57	0	61	104	0	0	0	0	0	0	0	0
Other Systems	240	201	344	0	0	0	0	22	0	0	77	0	12	0	0	0	0	0	0	0	0	0
Other Streams	1,254	2,883	4,203	0	0	1,049	259	0	513	31	577	16	12	417	27	45	0	0	0	0	0	0
Other Lakes	730	1,213	2,019	0	0	123	378	0	0	0	156	0	505	39	27	11	0	0	0	0	0	0
FRESHWATER TOTAL	2,614 ^d	5,051	8,368	0	0	1,196	637	22	566	31	900	16	590	655	54	56	0	0	0	0	0	0
GRAND TOTAL	27,961 ^d	60,957	105,157	321	28,227	76,246	7,566	22	11,903	1,711	1,803	16	590	698	54	56	0	28,222	22,306	8,186	0	894

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

^b Refer to Appendix A3 for common names and species abbreviations.

^c KI is chinook salmon less than 28 inches. KS is chinook salmon 28 inches and over.

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

Appendix A58.-Sitka Area^a standard errors^b of sport fish harvest and effort by fisheries and species^c, 1999.

	Trips	Days		KI ^d	KS ^d	SS	RS	KO	PS	CS	DV	SH	RT	CT	BT	GR	SM	HA	RF	LC	RCL	OTHER
		Fished																				
SALTWATER:																						
Boat - Crescent Bay (Sheldon Jackson Hatchery Area)	399	926	0	280	833	0	0	146	0	0	0	0	0	0	0	0	0	260	204	100	0	0
Boat - Starrigavan Bay	460	665	0	158	741	0	0	375	15	12	0	0	0	0	0	0	0	287	442	87	0	0
Boat - Silver Bay	659	1,671	187	281	235	47	0	18	43	0	0	0	0	0	0	0	0	128	1,370	211	0	20
Boat - Other Sitka Sound, incl. Vitskari Island	1,448	2,304	0	1,115	3,089	968	0	740	348	41	0	0	0	0	0	0	0	1,042	1,690	435	0	63
Boat - Salisbury Sound	607	1,014	0	565	1,156	131	0	115	74	0	0	0	0	0	0	0	0	342	381	143	0	36
Boat - Icy Straight	247	546	0	16	327	0	0	300	22	0	0	0	0	0	0	0	0	279	69	78	0	0
Boat - Hoonah Area	240	558	0	56	259	77	0	85	0	0	0	0	0	0	0	0	0	131	89	0	0	0
Boat - Chatham Strait	254	304	0	81	337	0	0	169	0	0	0	0	0	0	0	0	0	141	310	35	0	0
Boat - Cross Sound	262	434	0	137	636	15	0	240	32	0	0	0	0	0	0	0	0	185	230	120	0	48
Boat - Elfin Cove	174	346	0	115	688	15	0	491	0	11	0	0	0	0	0	0	0	291	313	151	0	0
Boat - Kruzof Island	305	480	0	352	782	0	0	47	15	0	0	0	0	0	0	0	0	423	203	109	0	0
Boat - Tenakee Inlet	530	1,029	0	109	398	217	0	157	0	11	0	0	0	0	0	0	0	72	126	13	0	0
Boat - Other	978	1,739	0	546	1,909	568	0	468	98	54	0	0	45	0	0	0	0	769	833	214	0	7
Shoreline - Crescent Bay (Sheldon Jackson Hatchery Area)	457	650	0	0	0	0	0	84	0	109	0	0	0	0	0	0	0	0	0	0	0	313
Shoreline - Starrigavan Bay	273	622	0	25	152	0	0	489	31	21	0	0	0	0	0	0	0	37	14	0	0	26
Shoreline - Other Sitka Sound	421	538	12	248	1,024	214	0	223	20	231	0	0	0	0	0	0	0	244	251	115	0	228
Shoreline - Other	1,157	2,517	0	308	1,016	355	0	293	0	151	0	0	0	0	0	0	0	178	110	27	0	0
SALTWATER TOTAL	2,661	4,887	187	1,544	4,347	1,229	0	1,307	372	295	0	0	45	0	0	0	0	1,563	2,525	619	0	391
FRESHWATER:																						
Baranof System (Lake, Stream)	134	169	0	0	0	0	0	0	0	32	0	0	81	0	0	0	0	0	0	0	0	0
Sitkoh System (Lake, Stream)	93	511	0	0	24	0	0	52	0	41	0	50	59	0	0	0	0	0	0	0	0	0
Other Systems	72	128	0	0	0	0	23	0	0	67	0	12	0	0	0	0	0	0	0	0	0	0
Other Streams	851	999	0	0	367	132	0	336	31	188	11	12	217	27	43	0	0	0	0	0	0	0
Other Lakes	299	525	0	0	57	274	0	0	0	91	0	259	24	26	11	0	0	0	0	0	0	0
FRESHWATER TOTAL	924	1,299	0	0	373	307	23	340	31	220	11	265	237	37	45	0	0	0	0	0	0	0
GRAND TOTAL	2,837	5,080	187	1,544	4,368	1,268	23	1,340	376	369	11	265	241	37	45	0	1,563	2,525	619	0	391	

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

^b 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.

^c Refer to Appendix A3 for common names and species abbreviations.

^d KI is chinook salmon less than 28 inches. KS is chinook salmon 28 inches and over.

Appendix A59.-Juneau Area^a sport fish harvest and effort by fisheries and species^b, 1999.

	Anglers	Trips	Days		KI ^c	KS ^c	SS	LL	RS	KO	PS	CS	DV	SH	RT	CT	BT	GR	SM	HA	RF	LC	OTHER
			Fished																				
SALTWATER:																							
Boat - Doty Cove to Berners Bay and west to Pt. Retreat	13,528	37,217	57,070	575	5,873	22,596	0	513	0	6,716	745	821	0	0	19	0	0	0	0	5,484	1,911	228	103
Boat - Angoon Area	1,777	2,644	6,334	0	923	7,669	0	409	0	2,428	876	136	0	0	0	0	0	0	0	4,772	3,708	951	256
Boat - Stephens Passage	1,112	2,595	4,266	0	415	1,443	0	28	0	237	47	55	0	0	0	0	0	0	0	490	548	112	40
Boat - Lynn Canal	1,113	2,105	3,098	0	326	1,390	0	0	0	730	54	11	0	0	0	0	0	0	0	367	234	77	69
Boat - Admiralty Island	591	855	1,395	0	217	734	0	0	0	659	41	0	0	0	0	0	0	0	0	412	318	62	0
Boat - Funter Bay	468	573	1,114	0	187	231	0	0	0	26	14	0	0	0	0	0	0	0	0	72	53	0	0
Boat - Other	5,418	9,653	15,194	0	1,573	7,689	0	497	0	3,254	302	248	0	0	0	0	0	0	0	3,332	1,583	190	152
Shoreline - Sheep Creek Area	643	1,039	1,316	0	43	125	0	0	0	266	63	166	0	0	0	0	0	0	0	120	13	0	0
Shoreline - Auke Creek Mouth	1,038	1,476	2,510	33	270	116	0	0	0	384	78	86	0	0	29	0	0	0	0	82	11	0	0
Shoreline - Gastineau Hatchery - DIPAC	2,877	10,772	12,928	94	363	6,193	0	0	0	4,867	855	969	0	0	19	0	0	0	0	0	0	0	0
Shoreline - Other Juneau Road System	2,733	7,692	9,824	0	196	994	0	0	0	1,773	151	891	0	0	10	0	0	0	0	295	0	13	38
Shoreline - Other	1,372	2,132	3,530	0	119	577	0	66	0	598	85	559	0	0	75	0	0	0	0	96	0	0	0
SALTWATER TOTAL	26,527^d	78,753	118,579	702	10,505	49,757	0	1,513	0	21,938	3,311	3,942	0	0	152	0	0	0	15,522	8,379	1,633	658	
FRESHWATER:																							
Fish Creek (Douglas Island)	809	1,254	1,627	23	308	0	0	0	0	498	271	44	0	0	0	0	0	0	0	0	0	0	0
Peterson Creek and Salt Chuck	336	547	906	0	0	11	0	0	0	0	0	121	0	0	0	0	0	0	0	0	0	0	0
Cowee Creek	589	1,368	1,522	0	0	393	0	0	0	145	0	45	0	0	0	0	0	0	0	0	0	0	0
Montana Creek	686	1,678	2,069	0	36	230	0	0	0	0	14	429	8	0	58	0	0	0	0	0	0	0	0
Other Juneau Road System	433	586	842	0	0	262	0	22	0	0	0	33	0	0	0	14	0	0	0	0	0	0	0
Twin Lakes	685	977	1,707	0	0	0	2,111	0	0	0	0	0	0	315	0	0	0	0	0	0	0	0	0
Other Streams	1,553	1,197	2,054	0	0	644	0	1,198	0	237	521	336	16	37	78	0	0	1,354	0	0	0	0	0
Other Lakes	528	490	1,069	0	0	0	0	0	29	0	0	0	0	0	78	0	0	0	0	0	0	0	0
FRESHWATER TOTAL	4,576^d	8,097	11,796	23	344	1,540	2,111	1,220	29	880	806	1,008	24	352	214	14	0	1,354	0	0	0	0	0
GRAND TOTAL	28,405^d	86,850	130,375	725	10,849	51,297	2,111	2,733	29	22,818	4,117	4,950	24	352	366	14	0	1,354	15,522	8,379	1,633	658	

^a 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.

^b Refer to Appendix A3 for common names and species abbreviations.

^c KI is chinook salmon less than 28 inches. KS is chinook salmon 28 inches and over.

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

Appendix A60.-Juneau Area^a standard errors^b of sport fish harvest and effort by fisheries and species^c, 1999.

	Trips	Days		KS ^d	SS	LL	RS	KO	PS	CS	DV	SH	RT	CT	BT	GR	SM	HA	RF	LC	OTHER
		Fished	KI ^d																		
SALTWATER:																					
Boat - Doty Cove to Berners Bay and west to Pt. Retreat	2,844	4,417	140	620	1,891	0	223	0	1,079	143	220	0	0	20	0	0	0	599	370	143	45
Boat - Angoon Area	501	1,178	0	195	1,473	0	294	0	686	399	86	0	0	0	0	0	0	983	912	276	152
Boat - Stephens Passage	830	1,071	0	234	503	0	23	0	105	35	43	0	0	0	0	0	0	233	251	76	40
Boat - Lynn Canal	501	833	0	139	415	0	0	0	290	37	12	0	0	0	0	0	0	114	82	40	48
Boat - Admiralty Island	235	342	0	89	345	0	0	0	409	31	0	0	0	0	0	0	0	173	169	51	0
Boat - Funter Bay	188	417	0	110	120	0	0	0	19	14	0	0	0	0	0	0	0	48	39	0	0
Boat - Other	1,391	1,897	0	391	1,344	0	332	0	746	94	120	0	0	0	0	0	0	509	517	96	75
Shoreline - Sheep Creek Area	250	329	0	28	67	0	0	0	214	44	134	0	0	0	0	0	0	84	13	0	0
Shoreline - Auke Creek Mouth	289	734	18	89	53	0	0	0	197	80	47	0	0	30	0	0	0	53	11	0	0
Shoreline - Gastineau Hatchery - DIPAC	2,076	2,335	47	224	1,273	0	0	0	2,149	329	375	0	0	19	0	0	0	0	0	0	0
Shoreline - Other Juneau Road System	1,332	1,631	0	65	341	0	0	0	613	90	233	0	0	10	0	0	0	146	0	13	28
Shoreline - Other	407	919	0	54	209	0	67	0	323	64	242	0	0	66	0	0	0	59	0	0	0
SALTWATER TOTAL	4,182	6,107	148	864	3,173	0	503	0	2,767	546	578	0	0	78	0	0	0	1,320	1,141	339	187
FRESHWATER:																					
Fish Creek (Douglas Island)	374	427	17	115	0	0	0	0	404	278	36	0	0	0	0	0	0	0	0	0	0
Peterson Creek and Salt Chuck	169	347	0	0	11	0	0	0	0	0	62	0	0	0	0	0	0	0	0	0	0
Cowee Creek	368	394	0	0	165	0	0	0	88	0	28	0	0	0	0	0	0	0	0	0	0
Montana Creek	491	567	0	22	117	0	0	0	0	14	211	8	0	43	0	0	0	0	0	0	0
Other Juneau Road System	159	224	0	0	179	0	16	0	0	0	25	0	0	0	13	0	0	0	0	0	0
Twin Lakes	309	523	0	0	0	1,582	0	0	0	0	0	0	242	0	0	0	0	0	0	0	0
Other Streams	168	358	0	0	263	0	501	0	123	493	170	16	36	81	0	0	1,369	0	0	0	0
Other Lakes	115	305	0	0	0	0	0	31	0	0	0	0	0	75	0	0	0	0	0	0	0
FRESHWATER TOTAL	833	1,133	17	117	375	1,582	501	31	424	558	289	18	245	118	13	0	1,369	0	0	0	0
GRAND TOTAL	4,256	6,169	148	874	3,176	1,582	716	31	2,811	771	633	18	245	143	13	0	1,369	1,320	1,141	339	187

^a 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.

^b 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.

^c Refer to Appendix A3 for common names and species abbreviations.

^d KI is chinook salmon less than 28 inches. KS is chinook salmon 28 inches and over.

Appendix A61.-Haines-Skagway Area^a sport fish harvest and effort by fisheries and species^b, 1999.

	Anglers	Days																				
		Trips	Fished	KI ^c	KS ^c	SS	RS	KO	PS	CS	DV	SH	RT	CT	BT	GR	WF	SM	HA	RF	LC	OTHER
SKAGWAY SUB-AREA																						
SALTWATER:																						
Boat	2,160	3,960	5,798	219	396	385	0	0	40	126	149	0	0	0	0	0	0	0	298	203	25	22
Shoreline	212	233	358	0	0	0	0	0	497	0	237	0	0	0	0	0	0	83	0	0	0	7
SALTWATER TOTAL	2,372 ^d	4,193	6,156	219	396	385	0	0	537	126	386	0	0	0	0	0	0	83	298	203	25	29
FRESHWATER:																						
Streams	290	264	364	0	0	0	0	0	213	33	122	0	0	0	0	0	0	0	0	0	0	0
Lakes	170	169	272	0	0	0	0	0	0	0	0	0	0	17	15	0	0	0	0	0	0	0
FRESHWATER TOTAL	445 ^d	433	636	0	0	0	0	0	213	33	122	0	0	17	15	0	0	0	0	0	0	0
SKAGWAY SUB-AREA TOTAL	2,725 ^d	4,626	6,792	219	396	385	0	0	750	159	508	0	0	17	15	0	0	83	298	203	25	29
HAINES SUB-AREA																						
SALTWATER:																						
Boat - Lynn Canal	728	2,060	2,957	0	292	107	0	0	0	0	138	0	0	0	0	0	0	0	102	0	7	0
Boat - Other	1,554	3,418	5,192	0	228	83	0	0	0	28	370	0	0	10	0	0	0	0	479	19	25	0
Shoreline	381	502	787	0	33	105	0	0	200	0	34	0	0	0	0	0	0	0	0	11	0	44
SALTWATER TOTAL	2,472 ^d	5,980	8,936	0	553	295	0	0	200	28	542	0	0	10	0	0	0	0	581	30	32	44
FRESHWATER:																						
Chilkoot River	1,208	2,087	3,476	0	0	353	21	0	1,977	19	542	0	0	0	0	0	0	0	0	0	0	0
Chilkat River	905	2,083	3,545	0	0	715	292	0	114	120	1,259	0	0	101	0	0	0	0	0	0	0	0
Other Streams	119	178	275	0	0	141	0	0	0	0	143	0	0	9	0	0	0	0	0	0	0	0
Chilkoot Lake	986	1,028	2,855	0	0	365	6	0	171	0	693	0	0	0	0	0	0	0	0	0	0	0
Chilkat Lake	393	728	1,287	0	0	324	364	0	0	27	680	0	0	144	0	0	0	0	0	0	0	0
Other Lakes	111	108	134	0	0	0	0	0	0	0	99	0	0	19	0	0	0	0	0	0	0	0
FRESHWATER TOTAL	2,757 ^d	6,212	11,572	0	0	1,898	683	0	2,262	166	3,416	0	0	273	0	0	0	0	0	0	0	0
HAINES SUB-AREA TOTAL	4,561 ^d	12,192	20,508	0	553	2,193	683	0	2,462	194	3,958	0	0	283	0	0	0	0	581	30	32	44
GRAND TOTAL	6,979 ^d	16,818	27,300	219	949	2,578	683	0	3,212	353	4,466	0	0	300	15	0	0	83	879	233	57	73

^a 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.

^b Refer to Appendix A3 for common names and species abbreviations.

^c KI is chinook salmon less than 28 inches. KS is chinook salmon 28 inches and over.

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

Appendix A62.-Haines-Skagway Area^a standard errors^b of sport fish harvest and effort by fisheries and species^c, 1999.

	Days		KI ^d	KS ^d	SS	RS	KO	PS	CS	DV	SH	RT	CT	BT	GR	WF	SM	HA	RF	LC	OTHER
	Trips	Fished																			
SKAGWAY SUB-AREA																					
SALTWATER:																					
Boat	1,506	1,611	79	99	209	0	0	29	78	93	0	0	0	0	0	0	0	114	143	24	22
Shoreline	97	126	0	0	0	0	0	337	0	168	0	0	0	0	0	0	83	0	0	0	7
SALTWATER TOTAL	1,503	1,607	79	99	209	0	0	339	78	190	0	0	0	0	0	0	83	114	143	24	23
FRESHWATER:																					
Streams	75	97	0	0	0	0	0	159	34	90	0	0	0	0	0	0	0	0	0	0	0
Lakes	60	128	0	0	0	0	0	0	0	0	0	0	17	14	0	0	0	0	0	0	0
FRESHWATER TOTAL	98	161	0	0	0	0	0	159	34	90	0	0	17	14	0	0	0	0	0	0	0
SKAGWAY SUB-AREA TOTAL	1,503	1,614	79	99	209	0	0	382	84	208	0	0	17	14	0	0	83	114	143	24	23
HAINES SUB-AREA																					
SALTWATER:																					
Boat - Lynn Canal	697	1,020	0	133	58	0	0	0	0	78	0	0	0	0	0	0	0	48	0	7	0
Boat - Other	895	1,069	0	67	49	0	0	0	28	167	0	0	10	0	0	0	0	165	14	24	0
Shoreline	140	209	0	33	78	0	0	104	0	26	0	0	0	0	0	0	0	0	11	0	44
SALTWATER TOTAL	1,097	1,440	0	152	112	0	0	104	28	179	0	0	10	0	0	0	0	173	18	25	44
FRESHWATER:																					
Chilkoot River	455	693	0	0	142	14	0	542	19	202	0	0	0	0	0	0	0	0	0	0	0
Chilkat River	467	796	0	0	207	143	0	73	59	492	0	0	58	0	0	0	0	0	0	0	0
Other Streams	101	132	0	0	80	0	0	0	0	123	0	0	8	0	0	0	0	0	0	0	0
Chilkoot Lake	226	712	0	0	156	6	0	153	0	272	0	0	0	0	0	0	0	0	0	0	0
Chilkat Lake	302	452	0	0	159	179	0	0	27	307	0	0	68	0	0	0	0	0	0	0	0
Other Lakes	46	56	0	0	0	0	0	0	0	63	0	0	20	0	0	0	0	0	0	0	0
FRESHWATER TOTAL	773	1,387	0	0	351	229	0	567	68	692	0	0	91	0	0	0	0	0	0	0	0
HAINES SUB-AREA TOTAL	1,315	1,986	0	152	368	229	0	574	73	714	0	0	91	0	0	0	0	173	18	25	44
GRAND TOTAL	1,973	2,505	79	181	422	229	0	714	111	739	0	0	92	14	0	0	83	208	143	35	50

^a 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.

^b 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.

^c Refer to Appendix A3 for common names and species abbreviations.

^d KI is chinook salmon less than 28 inches. KS is chinook salmon 28 inches and over.

Appendix A63.-Glacier Bay Area^a sport fish harvest and effort by fisheries and species^b, 1999.

	Anglers	Days		KI ^c	KS ^c	SS	RS	KO	PS	CS	DV	SH	RT	CT	WF	SM	HA	RF	LC	OTHER	
		Trips	Fished																		
SALTWATER:																					
Boat - Icy Straits	3,265	4,451	8,953	0	1,160	4,973	21	0	2,709	92	156	0	0	0	0	0	3,012	364	105	0	
Boat - Glacier Bay	1,263	1,360	2,865	0	112	1,137	0	0	783	0	22	0	0	0	0	0	818	678	62	11	
Boat - Excursion Inlet	1,208	1,613	3,242	0	328	2,762	32	0	2,372	144	67	0	0	0	0	0	1,176	216	50	0	
Boat - Gustavus Area	1,374	2,647	4,674	0	399	2,302	32	0	2,072	141	80	0	0	9	0	0	2,251	99	37	0	
Boat - Other	395	451	650	0	84	497	0	0	435	30	91	0	0	0	0	0	258	311	0	0	
Shoreline	433	839	1,172	0	12	122	0	0	357	0	0	0	0	0	0	0	37	148	0	0	
SALTWATER TOTAL	6,013 ^d	11,361	21,556	0	2,095	11,793	85	0	8,728	407	416	0	0	9	0	0	7,552	1,816	254	11	
FRESHWATER:																					
Streams	602	1,118	1,351	0	0	197	0	0	472	0	81	16	0	9	0	0	0	0	0	0	
FRESHWATER TOTAL	602 ^d	1,118	1,351	0	0	197	0	0	472	0	81	16	0	9	0	0	0	0	0	0	
GRAND TOTAL	6,103 ^d	12,479	22,907	0	2,095	11,990	85	0	9,200	407	497	16	0	18	0	0	7,552	1,816	254	11	

^a 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.

^b Refer to Appendix A3 for common names and species abbreviations.

^c KI is chinook salmon less than 28 inches. KS is chinook salmon 28 inches and over.

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

Appendix A64.-Glacier Bay Area^a standard errors^b of sport fish harvest and effort by fisheries and species^c, 1999.

	Days		KI ^d	KS ^d	SS	RS	KO	PS	CS	DV	SH	RT	CT	WF	SM	HA	RF	LC	OTHER
	Trips	Fished																	
SALTWATER:																			
Boat - Icy Straits	637	1,308	0	289	1,153	21	0	859	49	117	0	0	0	0	0	392	181	44	0
Boat - Glacier Bay	263	665	0	65	390	0	0	414	0	22	0	0	0	0	0	192	446	38	11
Boat - Excursion Inlet	345	640	0	111	793	33	0	893	83	69	0	0	0	0	0	304	154	39	0
Boat - Gustavus Area	697	1,095	0	147	756	31	0	862	136	63	0	0	9	0	0	597	63	27	0
Boat - Other	154	191	0	54	226	0	0	313	20	89	0	0	0	0	0	97	285	0	0
Shoreline	311	371	0	12	71	0	0	192	0	0	0	0	0	0	0	32	127	0	0
SALTWATER TOTAL	1,117	2,031	0	345	1,672	50	0	1,552	167	175	0	0	9	0	0	813	591	75	11
FRESHWATER:																			
Streams	363	386	0	0	82	0	0	239	0	42	16	0	9	0	0	0	0	0	0
FRESHWATER TOTAL	363	386	0	0	82	0	0	239	0	42	16	0	9	0	0	0	0	0	0
GRAND TOTAL	1,181	2,064	0	345	1,672	50	0	1,572	167	180	16	0	13	0	0	813	591	75	11

^a 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.

^b 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.

^c Refer to Appendix A3 for common names and species abbreviations.

^d KI is chinook salmon less than 28 inches. KS is chinook salmon 28 inches and over.

Appendix A65.-Yakutat Area^a sport fish harvest and effort by fisheries and species^b, 1999.

	Days																				
	Anglers	Trips	Fished	KI ^c	KS ^d	SS	RS	KO	PS	CS	DV	SH	RT	CT	GR	NP	SM	HA	RF	LC	OTHER
SALTWATER:																					
Boat - Yakutat Bay	3,097	3,145	5,033	0	649	8,774	21	0	0	16	137	0	0	0	0	0	9	3,240	716	1,052	0
Boat - Other	286	231	412	0	0	268	64	0	40	0	0	0	0	0	0	0	0	240	56	99	12
Shoreline - Yakutat Bay	359	349	700	0	0	440	75	0	0	0	0	0	0	0	0	0	0	114	0	0	0
Shoreline - Other	182	171	516	0	0	687	53	0	0	0	68	0	0	0	0	0	0	51	0	12	0
SALTWATER TOTAL	3,667^e	3,896	6,661	0	649	10,169	213	0	40	16	205	0	0	0	0	0	9	3,645	772	1,163	12
FRESHWATER:																					
Situk River, above weir	2,856	4,312	8,358	150	598	3,320	2,912	0	316	0	556	32	37	0	0	0	0	0	0	0	0
Situk River, below weir	2,562	4,309	8,388	235	562	5,274	4,287	0	430	47	125	48	0	0	0	0	0	0	0	0	0
Tsiu River	494	486	1,418	0	50	1,728	0	0	0	0	0	8	0	0	0	0	0	0	0	0	0
East Alsek River	290	501	1,215	0	50	1,068	792	0	0	47	80	0	0	0	0	0	0	0	0	0	0
Lost River	1,064	1,558	2,900	50	0	2,934	21	0	13	0	0	16	0	0	0	0	0	0	0	0	0
Italio River	421	475	1,176	0	0	1,285	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Streams	589	917	2,114	257	109	1,656	342	0	27	0	114	16	0	19	0	0	0	0	0	0	0
Ankau System (River, Lagoons, Outlet)	437	662	1,110	50	0	1,216	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Lakes	47	37	47	0	0	0	42	0	0	0	0	0	0	0	0	0	0	0	0	0	0
FRESHWATER TOTAL	5,743^e	13,257	26,726	742	1,369	18,481	8,396	0	786	94	875	120	37	19	0	0	0	0	0	0	0
GRAND TOTAL	6,901^e	17,153	33,387	742	2,018	28,650	8,609	0	826	110	1,080	120	37	19	0	0	9	3,645	772	1,163	12

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

^b Refer to Appendix A3 for common names and species abbreviations.

^c KI is chinook salmon less than 28 inches in saltwater; chinook salmon less than 16 inches in freshwater.

^d KS is chinook salmon 28 inches and over in saltwater; chinook salmon 16 inches and over in freshwater.

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

Appendix A66.-Yakutat Area^a standard errors^b of sport fish harvest and effort by fisheries and species^c, 1999.

	Days		KI ^d	KS ^e	SS	RS	KO	PS	CS	DV	SH	RT	CT	GR	NP	SM	HA	RF	LC	OTHER	
	Trips	Fished																			
SALTWATER:																					
Boat - Yakutat Bay	357	568	0	267	1,743	21	0	0	16	145	0	0	0	0	0	9	408	212	183	0	
Boat - Other	76	137	0	0	153	62	0	38	0	0	0	0	0	0	0	0	101	29	59	12	
Shoreline - Yakutat Bay	104	216	0	0	210	75	0	0	0	0	0	0	0	0	0	0	104	0	0	0	
Shoreline - Other	60	188	0	0	289	49	0	0	0	72	0	0	0	0	0	0	47	0	11	0	
SALTWATER TOTAL	381	649	0	267	1,779	111	0	38	16	161	0	0	0	0	0	9	433	215	191	12	
FRESHWATER:																					
Situk River, above weir	477	828	96	186	611	881	0	152	0	215	32	28	0	0	0	0	0	0	0	0	
Situk River, below weir	513	1,040	95	134	1,057	922	0	231	46	54	36	0	0	0	0	0	0	0	0	0	
Tsiu River	118	348	0	50	410	0	0	0	0	0	8	0	0	0	0	0	0	0	0	0	
East Alsek River	209	394	0	41	463	357	0	0	26	80	0	0	0	0	0	0	0	0	0	0	
Lost River	254	479	49	0	529	22	0	13	0	0	15	0	0	0	0	0	0	0	0	0	
Italo River	138	358	0	0	387	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Other Streams	213	468	195	57	437	238	0	27	0	74	16	0	20	0	0	0	0	0	0	0	
Ankau System (River, Lagoons, Outlet)	177	308	51	0	373	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Lakes	21	27	0	0	0	30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
FRESHWATER TOTAL	824	1,592	248	241	1,569	1,317	0	270	52	244	55	28	20	0	0	0	0	0	0	0	
GRAND TOTAL	917	1,717	248	362	2,388	1,313	0	272	55	285	55	28	20	0	0	9	433	215	191	12	

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

^b 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.

^c Refer to Appendix A3 for common names and species abbreviations.

^d KI is chinook salmon less than 28 inches in saltwater; chinook salmon less than 16 inches in freshwater.

^e 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^a sport fish harvest and effort by fisheries and species^b, 1999.

	Anglers	Days							DV							OTHER
		Trips	Fished	KS	SS	LL	RS	KO	LT	AC	SH	RT	GR	WF	BB	
Gulkana River (Paxson to Sourdough)	3,937	4,444	11,727	845	0	0	1,314	0	14	0	0	0	1,008	0	0	0
Gulkana River (Sourdough to Highway)	5,187	6,848	14,522	1,764	0	0	2,142	0	0	0	0	0	647	0	0	0
Gulkana River Other	1,593	1,853	3,591	484	0	0	701	0	0	0	0	0	146	0	0	0
Klutina River	5,310	8,327	15,382	3,489	0	0	6,514	0	35	1,663	0	0	507	27	0	0
Tonsina River	382	202	399	0	0	0	0	0	0	88	0	0	42	0	0	0
Other Streams	2,698	3,094	6,374	160	24	0	384	0	16	439	8	384	2,237	34	109	0
Lake Louise	1,996	3,035	6,654	0	0	0	0	0	430	0	0	0	637	0	0	0
Susitna Lake	684	1,755	3,163	0	0	0	0	0	176	0	0	0	206	0	670	0
Van (Silver) Lake	662	501	931	0	0	0	0	0	0	0	0	1,293	0	0	0	0
Paxson Lake	1,899	2,126	4,085	0	0	0	0	0	342	0	0	0	121	89	266	0
Summit Lake (near Paxson)	888	528	1,209	0	0	0	0	0	220	0	0	0	0	0	0	0
Crosswind Lake	515	483	2,309	0	0	0	35	0	525	0	0	0	414	8	503	0
Other Lakes	2,723	3,584	7,273	0	0	232	11	0	377	200	0	2,165	2,280	159	313	0
TOTAL	21,814 ^c	36,780	77,619	6,742	24	232	11,101	0	2,135	2,390	8	3,842	8,245	317	1,861	0

^a 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.

^b Refer to Appendix A3 for common names and species abbreviations.

^c 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^a standard errors^b of sport fish harvest and effort by fisheries and species^c, 1999.

	Days		DV												
	Trips	Fished	KS	SS	LL	RS	KO	LT	AC	SH	RT	GR	WF	BB	OTHER
Gulkana River (Paxson to Sourdough)	665	1,399	178	0	0	341	0	14	0	0	0	246	0	0	0
Gulkana River (Sourdough to Highway)	830	1,823	296	0	0	464	0	0	0	0	0	452	0	0	0
Gulkana River Other	238	549	114	0	0	445	0	0	0	0	0	90	0	0	0
Klutina River	936	1,646	400	0	0	1,029	0	21	541	0	0	201	21	0	0
Tonsina River	65	137	0	0	0	0	0	0	85	0	0	42	0	0	0
Other Streams	411	972	77	18	0	145	0	17	245	8	212	482	28	78	0
Lake Louise	684	1,531	0	0	0	0	0	108	0	0	0	220	0	0	0
Susitna Lake	565	928	0	0	0	0	0	86	0	0	0	95	0	440	0
Van (Silver) Lake	121	230	0	0	0	0	0	0	0	0	551	0	0	0	0
Paxson Lake	509	809	0	0	0	0	0	106	0	0	0	75	63	134	0
Summit Lake (near Paxson)	103	274	0	0	0	0	0	86	0	0	0	0	0	0	0
Crosswind Lake	140	878	0	0	0	25	0	154	0	0	0	288	9	197	0
Other Lakes	535	1,177	0	0	169	10	0	114	122	0	642	559	137	169	0
TOTAL	1,912	4,061	540	18	169	1,250	0	274	626	8	906	1,048	156	532	0

^a 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.

^b 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.

^c Refer to Appendix A3 for common names and species abbreviations.

Appendix A69.-Prince William Sound Area^a sport fish harvest and effort by fisheries and species^b, 1999.

	Anglers	Trips	Days							DV												
			Fished	KS	SS	RS	PS	CS	LT	AC	SH	RT	CT	GR	WF	SM	HA	SK	RF	LC	RCL	OTHER
SALTWATER:																						
Boat - Valdez Bay (including Port Valdez)	16,320	21,001	41,997	421	33,793	1,160	11,502	167	0	397	0	0	9	0	0	542	11,221	31	4,014	1,002	0	332
Boat - Passage Canal (Whittier)	3,146	5,293	10,965	211	1,800	1,922	294	93	0	0	0	0	0	0	0	3,282	24	2,532	320	0	87	
Boat - Orca Inlet	2,212	3,998	7,027	395	1,178	356	319	164	0	99	0	0	68	0	0	3,334	15	1,425	196	0	0	
Boat - Esther Island	1,111	1,663	3,469	22	252	215	452	162	0	11	0	0	0	0	0	557	0	661	13	0	0	
Boat - Montague Island	1,724	1,545	2,332	11	421	0	79	0	0	0	0	0	0	0	0	2,307	7	710	140	0	0	
Boat - Hinchinbrook Area	323	766	1,220	22	419	0	80	0	0	0	0	0	0	0	0	557	5	74	35	0	0	
Boat - Other	4,828	6,675	15,001	189	2,114	2,283	1,578	262	0	44	0	49	0	0	1,354	5,856	8	3,400	195	0	190	
Shoreline - Valdez Road System	3,901	3,547	6,764	0	1,134	236	8,640	144	0	0	32	0	0	0	0	0	0	0	0	0	995	
Shoreline - Orca Inlet	887	1,813	3,406	283	631	20	305	0	0	33	0	0	0	0	0	107	0	42	0	238	0	
Shoreline - Remainder of Valdez Arm	4,082	4,012	9,269	0	1,138	889	9,265	27	0	137	0	0	0	0	0	107	0	96	0	0	596	
Shoreline - Other	1,192	2,374	5,134	133	729	32	988	94	0	0	0	0	0	0	0	272	0	42	12	285	47	
SALTWATER TOTAL	34,971^c	52,687	106,584	1,687	43,609	7,113	33,502	1,113	0	721	32	0	126	0	0	1,896	27,600	90	12,996	1,913	523	2,247
FRESHWATER:																						
Eyak River	1,028	4,032	4,659	0	4,914	1,194	0	0	0	11	0	0	65	0	0	0	0	0	0	0	0	
Eshamy Lake, Creek, and Lagoon	217	126	232	0	35	108	237	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Alaganik Slough	583	1,470	2,082	0	1,240	184	0	135	0	77	0	0	24	0	0	0	0	0	0	0	0	
Clear Creek	563	1,164	2,049	65	800	1,036	0	0	0	11	0	0	19	0	0	0	0	0	0	0	0	
Other Streams	1,615	1,999	5,247	11	2,412	763	126	14	0	243	40	606	130	45	0	0	0	0	0	0	50	
Other Lakes	790	1,003	1,594	0	79	268	128	68	0	90	0	749	85	201	0	0	0	0	0	0	0	
FRESHWATER TOTAL	3,642^c	9,794	15,863	76	9,480	3,553	491	217	0	432	40	1,355	323	246	0	0	0	0	0	0	50	
GRAND TOTAL	36,646^c	62,481	122,447	1,763	53,089	10,666	33,993	1,330	0	1,153	72	1,355	449	246	0	1,896	27,600	90	12,996	1,913	523	2,297

^a 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.

^b Refer to Appendix A3 for common names and species abbreviations.

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

Appendix A70.-Prince William Sound Area^a standard errors^b of sport fish harvest and effort by fisheries and species^c, 1999.

	Days		DV																		
	Trips	Fished	KS	SS	RS	PS	CS	LT	AC	SH	RT	CT	GR	WF	SM	HA	SK	RF	LC	RCL	OTHER
SALTWATER:																					
Boat - Valdez Bay (including Port Valdez)	1,823	3,512	105	3,690	375	2,209	81	0	348	0	0	9	0	0	542	817	16	605	173	0	235
Boat - Passage Canal (Whittier)	904	2,141	109	557	702	105	58	0	0	0	0	0	0	0	0	479	18	644	101	0	50
Boat - Orca Inlet	610	1,292	214	391	251	174	98	0	63	0	0	57	0	0	0	549	11	518	87	0	0
Boat - Esther Island	319	733	22	127	120	191	139	0	11	0	0	0	0	0	0	122	0	184	14	0	0
Boat - Montague Island	243	389	11	172	0	49	0	0	0	0	0	0	0	0	0	315	7	230	50	0	0
Boat - Hinchinbrook Area	385	486	21	245	0	82	0	0	0	0	0	0	0	0	0	187	5	48	27	0	0
Boat - Other	866	2,054	72	535	655	412	152	0	42	0	0	46	0	0	1,389	624	8	608	73	0	138
Shoreline - Valdez Road System	395	759	0	305	131	1,298	88	0	0	33	0	0	0	0	0	0	0	0	0	0	707
Shoreline - Orca Inlet	483	1,129	125	297	19	185	0	0	33	0	0	0	0	0	0	69	0	42	0	192	0
Shoreline - Remainder of Valdez Arm	548	1,464	0	305	412	1,693	27	0	116	0	0	0	0	0	0	52	0	69	0	0	509
Shoreline - Other	481	1,192	55	354	24	314	95	0	0	0	0	0	0	0	0	127	0	42	12	284	33
SALTWATER TOTAL	2,607	5,569	297	3,868	1,135	3,046	283	0	372	33	0	73	0	0	1,493	1,338	29	1,295	242	348	912
FRESHWATER:																					
Eyak River	1,028	1,117	0	1,460	428	0	0	0	12	0	0	40	0	0	0	0	0	0	0	0	0
Eshamy Lake, Creek, and Lagoon	54	100	0	20	78	228	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Alaganik Slough	346	670	0	453	137	0	135	0	50	0	0	19	0	0	0	0	0	0	0	0	0
Clear Creek	293	497	37	312	413	0	0	0	11	0	0	20	0	0	0	0	0	0	0	0	0
Other Streams	367	1,232	11	554	281	63	14	0	110	24	347	82	33	0	0	0	0	0	0	0	49
Other Lakes	242	401	0	55	144	106	70	0	53	0	587	52	143	0	0	0	0	0	0	0	0
FRESHWATER TOTAL	1,226	1,925	38	1,671	702	258	149	0	132	24	677	111	147	0	0	0	0	0	0	0	49
GRAND TOTAL	2,891	5,883	300	4,180	1,345	3,062	319	0	389	40	677	134	147	0	1,493	1,338	29	1,295	242	348	913

^a 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.

^b 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.

^c Refer to Appendix A3 for common names and species abbreviations.

Appendix A71.-Knik Arm Drainage Area^a sport fish harvest and effort by fisheries and species^b, 1999.

	Anglers	Trips	Days										DV							
			Fished	KS	SS	LL	RS	KO	PS	CS	LT	AC	RT	GR	WF	NP	BB	SM	LC	OTHER
SALTWATER:																				
Boat	149	166	220	0	0	0	11	0	0	0	0	0	0	0	0	0	0	0	0	0
Shoreline	30	26	30	11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SALTWATER TOTAL	179 ^c	192	250	11	0	0	11	0	0	0	0	0	0	0	0	0	0	0	0	0
FRESHWATER:																				
Little Susitna River	13,356	18,421	30,437	2,713	8,864	0	1,282	0	52	481	0	22	253	0	7	0	0	0	0	0
Knik River and Tributaries, including Jim Creek	2,159	3,650	6,860	0	2,612	0	614	0	13	162	0	154	0	0	0	0	0	0	0	0
Wasilla Creek (Rabbit Slough)	500	560	990	0	313	0	11	0	0	14	0	66	0	0	0	0	0	0	0	0
Cottonwood Creek	1,336	2,137	3,506	0	537	0	1,080	0	0	0	0	0	93	0	0	0	0	0	0	0
Fish Creek (Big Lake Drainage)	509	880	2,182	0	233	0	432	0	27	0	0	571	2,114	711	0	94	76	2,708	0	0
Eklutna Power Plant Raceway	2,014	3,870	6,150	0	1,453	0	151	0	27	81	0	264	0	0	0	0	0	0	0	0
Other Streams	571	1,353	1,744	0	406	0	45	0	0	0	0	44	81	84	0	0	0	0	0	0
Wasilla Lake	544	1,209	1,551	0	0	0	0	0	0	0	0	0	762	0	0	0	0	0	0	0
Finger Lake	3,167	4,733	8,076	0	0	6,770	0	0	0	0	0	930	3,301	147	0	0	0	0	0	0
Kepler Lake Complex	3,263	5,898	9,149	0	0	278	0	0	0	0	0	231	5,391	293	0	0	0	0	0	0
Big Lake	2,748	5,628	8,418	0	0	280	0	0	0	0	0	747	1,501	0	0	132	255	0	0	0
Long Lake (Mile 85 Glenn Highway)	1,266	1,228	2,036	0	0	0	0	0	0	0	81	0	1,193	104	0	0	0	0	0	0
Cottonwood Lake	323	558	773	0	0	8	0	0	0	0	0	0	340	0	0	0	0	0	0	0
Flat Horn Lake	360	484	924	0	0	0	0	0	0	0	0	0	0	0	0	602	13	0	0	0
Figure Eight Lake	302	828	1,088	0	0	0	0	0	0	0	0	0	0	0	0	1,325	0	0	0	0
Knik Lake	345	497	881	0	0	46	0	0	0	0	0	0	713	0	0	0	0	0	0	0
Nancy Lake	872	765	1,165	0	0	0	0	0	0	0	0	0	189	0	0	192	0	0	0	0
South Rolly Lake	731	543	891	0	0	0	0	0	0	0	0	0	82	0	0	19	0	0	0	0
Nancy Lake Recreation Area, Other Fishing Sites	1,796	3,610	5,843	0	11	0	0	0	0	0	27	0	340	0	0	3,677	25	0	0	0
Other Lakes	5,341	12,595	19,728	0	0	1,292	32	0	0	0	0	769	8,174	401	0	744	0	0	0	53
FRESHWATER TOTAL	30,474 ^c	69,447	112,392	2,713	14,429	8,674	3,647	0	119	738	108	3,798	24,527	1,740	7	6,785	369	2,708	0	53
GRAND TOTAL	30,609 ^c	69,639	112,642	2,724	14,429	8,674	3,658	0	119	738	108	3,798	24,527	1,740	7	6,785	369	2,708	0	53

^a 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.

^b Refer to Appendix A3 for common names and species abbreviations.

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

Appendix A72.-Knik Arm Drainage Area^a standard errors^b of sport fish harvest and effort by fisheries and species^c, 1999.

	Days		DV																	
	Trips	Fished	KS	SS	LL	RS	KO	PS	CS	LT	AC	RT	GR	WF	NP	BB	SM	LC	OTHER	
SALTWATER:																				
Boat	75	89	0	0	0	11	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Shoreline	18	21	11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SALTWATER TOTAL	77	92	11	0	0	11	0	0	0	0	0	0	0	0	0	0	0	0	0	0
FRESHWATER:																				
Little Susitna River	1,284	2,171	354	1,043	0	329	0	31	163	0	15	90	0	7	0	0	0	0	0	0
Knik River and Tributaries, including Jim Creek	537	1,491	0	574	0	175	0	13	84	0	82	0	0	0	0	0	0	0	0	0
Wasilla Creek (Rabbit Slough)	196	354	0	120	0	10	0	0	14	0	65	0	0	0	0	0	0	0	0	0
Cottonwood Creek	453	915	0	180	0	381	0	0	0	0	0	49	0	0	0	0	0	0	0	0
Fish Creek (Big Lake Drainage)	312	948	0	131	0	410	0	25	0	0	521	1,340	641	0	89	72	2,569	0	0	0
Eklutna Power Plant Raceway	639	1,050	0	382	0	64	0	27	42	0	130	0	0	0	0	0	0	0	0	0
Other Streams	797	824	0	180	0	36	0	0	0	0	31	42	59	0	0	0	0	0	0	0
Wasilla Lake	431	489	0	0	0	0	0	0	0	0	0	359	0	0	0	0	0	0	0	0
Finger Lake	690	1,217	0	0	1,812	0	0	0	0	0	300	755	92	0	0	0	0	0	0	0
Kepler Lake Complex	761	1,176	0	0	154	0	0	0	0	0	178	1,671	136	0	0	0	0	0	0	0
Big Lake	1,003	1,392	0	0	131	0	0	0	0	0	198	386	0	0	86	113	0	0	0	0
Long Lake (Mile 85 Glenn Highway)	248	443	0	0	0	0	0	0	0	56	0	403	76	0	0	0	0	0	0	0
Cottonwood Lake	232	292	0	0	8	0	0	0	0	0	0	136	0	0	0	0	0	0	0	0
Flat Horn Lake	202	466	0	0	0	0	0	0	0	0	0	0	0	0	261	13	0	0	0	0
Figure Eight Lake	422	535	0	0	0	0	0	0	0	0	0	0	0	0	600	0	0	0	0	0
Knik Lake	176	423	0	0	34	0	0	0	0	0	0	244	0	0	0	0	0	0	0	0
Nancy Lake	156	220	0	0	0	0	0	0	0	0	0	80	0	0	104	0	0	0	0	0
South Rolly Lake	141	218	0	0	0	0	0	0	0	0	0	55	0	0	13	0	0	0	0	0
Nancy Lake Recreation Area, Other Fishing Sites	915	1,463	0	12	0	0	0	0	0	27	0	130	0	0	1,912	25	0	0	0	0
Other Lakes	1,370	2,127	0	0	497	31	0	0	0	0	372	1,222	199	0	655	0	0	0	0	52
FRESHWATER TOTAL	2,990	4,787	354	1,298	1,887	672	0	50	189	61	751	2,740	700	7	2,131	139	2,569	0	52	52
GRAND TOTAL	2,991	4,790	355	1,298	1,887	672	0	50	189	61	751	2,740	700	7	2,131	139	2,569	0	52	52

^a 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.

^b 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.

^c Refer to Appendix A3 for common names and species abbreviations.

Appendix A73.-Anchorage Area^a sport fish harvest and effort by fisheries and species^b, 1999.

	Anglers	Trips	Days										DV						
			Fished	KS	SS	LL	RS	KO	PS	CS	LT	AC	RT	GR	WF	NP	SM	LC	OTHER
SALTWATER:																			
Boat	91	216	285	22	87	0	108	0	0	0	0	0	0	0	0	0	0	0	
Shoreline	971	1,597	2,631	145	71	0	140	0	40	0	0	22	0	0	0	0	14,926	0	
SALTWATER TOTAL	1,062^c	1,813	2,916	167	158	0	248	0	40	0	0	22	0	0	0	0	14,926	0	
FRESHWATER:																			
Jewel Lake	3,042	5,216	7,814	0	0	1,807	0	0	0	0	0	0	2,724	0	0	0	0	0	
Campbell Point Lake	615	1,267	1,572	0	0	526	0	0	0	0	0	0	304	0	0	0	0	13	
Sand Lake	963	2,397	3,492	0	0	904	0	0	0	0	54	0	1,046	0	0	19	0	0	
Lower Fire Lake	652	1,560	2,091	0	0	0	0	0	0	0	0	0	339	0	0	196	0	0	
Mirror Lake	1,635	2,315	3,843	0	0	2,681	0	0	0	0	0	392	1,925	0	0	28	0	0	
Otter Lake	1,828	3,102	4,090	0	0	85	0	0	0	0	0	0	1,905	0	0	0	0	0	
Clunie Lake	1,364	3,273	4,843	0	0	271	0	0	0	0	867	231	3,174	0	0	0	0	0	
Gwen Lake	989	2,125	3,456	0	0	0	0	0	0	0	0	0	1,895	0	0	0	0	0	
Sixmile Lake	1,988	3,497	5,928	0	0	0	0	0	0	0	0	22	2,570	0	0	0	0	0	
Green Lake	1,303	1,973	3,781	0	0	124	0	0	0	0	0	0	1,363	0	0	0	0	0	
Hillberg Lake	1,123	2,374	3,651	0	0	0	0	0	0	0	0	0	1,694	0	0	0	0	0	
Triangle Lake	630	702	1,096	0	0	0	0	0	0	0	0	0	374	0	0	0	0	0	
C Street (Taku) Lake	1,178	2,636	3,290	0	0	147	0	0	0	0	0	0	1,662	0	0	0	0	0	
Fish Lake	1,137	1,349	2,356	0	0	0	0	0	0	0	0	0	825	0	0	0	0	0	
Cheney Lake	1,626	2,480	3,933	0	0	549	0	0	0	0	0	297	1,544	0	0	0	0	0	
Beach Lake	1,550	2,450	4,088	0	0	409	0	0	0	0	0	0	2,093	158	0	0	0	0	
Delong Lake	1,643	2,293	3,620	0	0	332	0	0	0	0	0	0	1,133	0	0	0	0	0	
Othe`r Lakes	1,163	2,109	3,368	0	0	19	0	0	0	0	0	150	1,304	0	0	0	0	0	
Ship Creek	13,196	41,222	52,294	5,204	4,649	0	185	0	80	16	0	22	47	0	0	0	0	0	
Bird Creek	5,150	9,881	13,033	11	4,611	0	56	0	507	99	0	0	24	0	0	0	325	0	
Campbell Creek	1,159	3,994	4,446	33	1,341	0	11	0	0	0	0	626	711	0	0	0	0	0	
Twentymile River	1,638	2,005	3,370	0	1,051	0	10	0	0	14	0	99	0	0	0	0	29,346	0	
Eagle River	1,136	1,459	2,096	22	37	0	21	0	0	0	0	97	73	0	0	0	0	0	
Other Streams	1,032	1,565	2,322	25	419	0	11	0	94	0	0	89	47	0	0	0	0	0	
FRESHWATER TOTAL	27,985^c	103,244	143,873	5,295	12,108	7,854	294	0	681	129	921	2,025	28,776	158	0	243	29,671	0	
GRAND TOTAL	28,557^c	105,057	146,789	5,462	12,266	7,854	542	0	721	129	921	2,047	28,776	158	0	243	44,597	0	

^a 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.

^b Refer to Appendix A3 for common names and species abbreviations.

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

Appendix A74.-Anchorage Area^a standard errors^b of sport fish harvest and effort by fisheries and species^c, 1999.

	Days		DV															
	Trips	Fished	KS	SS	LL	RS	KO	PS	CS	LT	AC	RT	GR	WF	NP	SM	LC	OTHER
SALTWATER:																		
Boat	127	158	21	72	0	106	0	0	0	0	0	0	0	0	0	0	0	0
Shoreline	466	794	103	55	0	111	0	40	0	0	22	0	0	0	0	5,093	0	0
SALTWATER TOTAL	500	827	106	93	0	158	0	40	0	0	22	0	0	0	0	5,093	0	0
FRESHWATER:																		
Jewel Lake	799	1,114	0	0	652	0	0	0	0	0	0	669	0	0	0	0	0	0
Campbell Point Lake	484	519	0	0	298	0	0	0	0	0	0	160	0	0	0	0	0	10
Sand Lake	638	835	0	0	426	0	0	0	0	56	0	376	0	0	19	0	0	0
Lower Fire Lake	460	573	0	0	0	0	0	0	0	0	0	182	0	0	161	0	0	0
Mirror Lake	445	839	0	0	1,245	0	0	0	0	0	192	591	0	0	29	0	0	0
Otter Lake	690	757	0	0	72	0	0	0	0	0	0	443	0	0	0	0	0	0
Clunie Lake	587	1,070	0	0	185	0	0	0	0	829	124	797	0	0	0	0	0	0
Gwen Lake	829	1,212	0	0	0	0	0	0	0	0	0	683	0	0	0	0	0	0
Sixmile Lake	645	1,355	0	0	0	0	0	0	0	0	21	704	0	0	0	0	0	0
Green Lake	436	942	0	0	79	0	0	0	0	0	0	417	0	0	0	0	0	0
Hillberg Lake	634	922	0	0	0	0	0	0	0	0	0	615	0	0	0	0	0	0
Triangle Lake	162	269	0	0	0	0	0	0	0	0	0	197	0	0	0	0	0	0
C Street (Taku) Lake	807	883	0	0	92	0	0	0	0	0	0	728	0	0	0	0	0	0
Fish Lake	400	680	0	0	0	0	0	0	0	0	0	342	0	0	0	0	0	0
Cheney Lake	455	755	0	0	222	0	0	0	0	0	229	468	0	0	0	0	0	0
Beach Lake	510	966	0	0	230	0	0	0	0	0	0	636	71	0	0	0	0	0
DeLong Lake	475	700	0	0	143	0	0	0	0	0	0	289	0	0	0	0	0	0
Other Lakes	424	762	0	0	19	0	0	0	0	0	134	421	0	0	0	0	0	0
Ship Creek	2,985	3,816	455	629	0	79	0	59	16	0	21	38	0	0	0	0	0	0
Bird Creek	1,131	1,515	11	786	0	45	0	180	41	0	0	24	0	0	0	327	0	0
Campbell Creek	1,012	1,053	32	504	0	11	0	0	0	0	327	297	0	0	0	0	0	0
Twentymile River	335	714	0	351	0	10	0	0	14	0	58	0	0	0	0	7,564	0	0
Eagle River	281	493	15	38	0	22	0	0	0	0	57	71	0	0	0	0	0	0
Other Streams	352	498	26	138	0	11	0	77	0	0	54	47	0	0	0	0	0	0
FRESHWATER TOTAL	4,194	5,792	457	1,197	1,521	93	0	211	46	832	493	2,192	71	0	165	7,563	0	10
GRAND TOTAL	4,203	5,825	469	1,198	1,521	184	0	215	46	832	495	2,192	71	0	165	9,087	0	10

^a 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.

^b 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.

^c Refer to Appendix A3 for common names and species abbreviations.

Appendix A75.-East Susitna River Drainage^a sport fish harvest and effort by fisheries and species^b, 1999.

	Anglers	Trips	Days			DV												
			Fished	KS	SS	LL	RS	PS	CS	LT	AC	RT	GR	WF	NP	BB	SM	OTHER
Willow Creek	14,803	21,390	37,384	4,988	5,019	0	162	665	475	0	0	0	0	0	53	0	0	0
Caswell Creek	1,611	2,071	2,764	142	1,198	0	0	13	0	0	0	0	0	0	0	0	0	0
Montana Creek	11,089	12,920	22,382	3,279	3,382	0	248	833	885	0	22	0	0	0	0	16	0	0
Sunshine Creek	1,244	2,082	3,805	11	1,709	0	0	0	0	0	11	0	0	0	0	53	0	0
Talkeetna River and Tributaries, including Clear Creek	11,039	12,509	21,988	3,701	5,814	0	3,197	92	566	0	498	207	224	32	0	0	0	0
Sheep Creek	5,955	9,264	17,188	2,558	3,045	0	112	643	476	0	68	94	179	0	0	0	0	0
Little Willow Creek	4,309	4,393	8,596	1,344	871	0	64	362	146	0	11	77	23	0	0	0	0	0
Goose Creek	1,750	2,357	3,561	371	440	0	32	241	92	0	0	152	0	0	0	13	0	0
Birch Creek	724	990	1,226	134	622	0	184	0	0	0	0	24	0	0	19	76	0	0
Kashwitna River	634	954	2,004	83	260	0	11	12	0	0	0	82	0	0	0	0	0	0
Troublesome Creek	691	778	1,260	0	142	0	43	13	14	0	11	35	0	0	0	0	0	0
Susitna River	439	354	603	48	161	0	0	0	16	0	0	0	0	0	0	0	9,816	0
Other Streams	1,782	2,785	5,436	216	607	0	339	13	271	0	297	454	824	0	0	72	0	0
Lakes	1,590	3,022	5,113	0	22	703	216	0	0	222	0	630	364	0	188	0	0	0
TOTAL	40,661^c	75,869	133,310	16,875	23,292	703	4,608	2,887	2,941	222	918	1,755	1,614	32	260	230	9,816	0

^a 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.

^b Refer to Appendix A3 for common names and species abbreviations.

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

Appendix A76.-East Susitna River Drainage^a standard errors^b of sport fish harvest and effort by fisheries and species^c, 1999.

	Days		DV														
	Trips	Fished	KS	SS	LL	RS	PS	CS	LT	AC	RT	GR	WF	NP	BB	SM	OTHER
Willow Creek	1,632	2,880	462	692	0	84	237	146	0	0	0	0	0	50	0	0	0
Caswell Creek	354	437	59	340	0	0	14	0	0	0	0	0	0	0	0	0	0
Montana Creek	1,003	1,913	369	629	0	97	266	236	0	22	0	0	0	0	11	0	0
Sunshine Creek	444	955	11	438	0	0	0	0	0	10	0	0	0	0	33	0	0
Talkeetna River and Tributaries, including Clear Creek	1,041	1,681	367	768	0	607	82	197	0	139	85	102	26	0	0	0	0
Sheep Creek	1,003	2,005	458	623	0	58	277	186	0	50	47	84	0	0	0	0	0
Little Willow Creek	517	1,227	292	241	0	64	163	63	0	12	37	22	0	0	0	0	0
Goose Creek	389	595	92	189	0	24	119	81	0	0	75	0	0	0	13	0	0
Birch Creek	284	308	54	210	0	127	0	0	0	0	17	0	0	18	72	0	0
Kashwitna River	291	705	57	153	0	11	12	0	0	0	42	0	0	0	0	0	0
Troublesome Creek	225	430	0	76	0	43	13	13	0	11	25	0	0	0	0	0	0
Susitna River	107	194	30	86	0	0	0	15	0	0	0	0	0	0	0	5,629	0
Other Streams	582	984	82	239	0	134	14	215	0	278	256	328	0	0	54	0	0
Lakes	691	1,305	0	23	483	189	0	0	97	0	292	147	0	199	0	0	0
TOTAL	2,878	5,223	909	1,585	483	677	516	456	97	313	419	395	26	207	98	5,629	0

^a 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.

^b 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.

^c Refer to Appendix A3 for common names and species abbreviations.

Appendix A77.-West Cook Inlet-West Susitna River Drainages^a sport fish harvest and effort by fisheries and species^b, 1999.

	Anglers	Days			DV																
		Trips	Fished	KS	SS	RS	PS	CS	LT	AC	RT	GR	WF	NP	BB	SM	HA	LC	RCL	OTHER	
SALTWATER:																					
Upper Cook Inlet (Boat Sites North of Chinitna Point)	780	1,076	1,295	0	55	0	27	0	0	33	0	0	0	0	0	0	1,663	12	0	0	
Lower Cook Inlet (Boat Sites South of Chinitna Point)	518	343	540	0	37	0	0	0	0	0	0	0	0	0	0	0	759	27	0	0	
Razor Clams: Polly Creek Beach/Crescent River Bar	628	382	677	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	13,814	0	
Other Shoreline	320	445	672	22	143	201	145	0	0	0	0	0	0	0	0	0	0	0	2,322	0	
SALTWATER TOTAL	2,157^c	2,246	3,184	22	235	201	172	0	0	33	0	0	0	0	0	0	2,422	39	16,136	0	
FRESHWATER:																					
Deshka River (Kroto Creek) above weir	2,181	2,944	5,907	561	1,330	39	0	0	0	64	407	11	0	170	0	0	0	0	0	0	
Deshka River (Kroto Creek) below weir	6,135	8,061	14,181	2,935	2,704	11	67	0	0	0	154	0	0	113	38	6,499	0	0	0	0	
Lake Creek	4,942	6,908	17,991	3,037	6,931	2,604	300	179	0	0	640	229	95	16	28	0	0	0	0	0	
Fish Lake Creek and Fish Lakes (Yentna Drainage)	1,684	2,462	5,107	1,188	2,261	865	0	45	0	33	168	19	0	375	76	0	0	0	0	0	
Alexander Creek/Lake	4,247	5,998	11,187	2,241	1,418	205	56	27	0	0	0	0	0	806	38	571	0	0	0	0	
Talachulitna River	2,335	2,273	7,680	977	1,453	337	75	102	0	33	0	255	0	81	0	0	0	0	0	0	
Chuitna River	1,359	1,341	2,440	561	1,614	194	40	0	0	34	47	34	0	0	0	0	0	0	0	0	
Theodore River	205	417	488	0	290	0	27	0	0	62	0	0	0	0	0	0	0	0	0	0	
Kustatan River	1,583	1,985	3,234	0	3,178	186	0	41	0	393	0	0	0	0	0	0	0	0	0	0	
Peters Creek	362	362	536	197	65	0	0	0	0	0	70	23	0	0	0	0	0	0	0	0	
Silver Salmon Creek	396	1,028	1,408	0	590	0	0	0	0	114	0	0	0	0	0	0	0	0	0	0	
Yentna River	1,013	1,566	3,350	939	1,093	324	66	14	0	11	59	0	0	51	0	3,038	0	0	0	0	
Susitna River	285	251	339	36	92	22	0	0	0	0	0	0	0	0	76	16,923	0	0	0	0	
Other Sites - Susitna River Drainages	2,702	4,080	7,384	482	1,913	489	13	54	72	11	368	178	0	2,074	416	0	0	0	0	0	
Other Sites - Susitna to North Forelands	934	1,525	2,333	301	1,282	76	16	0	0	0	65	0	0	287	0	0	0	0	0	0	
Other Sites - South of North Forelands	1,314	1,559	2,623	189	2,047	464	8	81	9	435	95	32	0	0	0	0	0	0	0	7	
Other Streams	474	330	712	56	418	383	0	0	0	114	0	0	0	0	0	0	0	0	0	0	
Big River Lakes	721	819	1,341	0	463	1,783	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Other Lakes	227	140	539	22	273	86	0	0	0	0	70	0	0	346	0	0	0	0	0	0	
FRESHWATER TOTAL	26,936^c	44,049	88,780	13,722	29,415	8,068	668	543	81	1,304	2,143	781	95	4,319	672	27,031	0	0	0	7	
GRAND TOTAL	28,323^c	46,295	91,964	13,744	29,650	8,269	840	543	81	1,337	2,143	781	95	4,319	672	27,031	2,422	39	16,136	7	

^a 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.

^b Refer to Appendix A3 for common names and species abbreviations.

^c 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^a standard errors^b of sport fish harvest and effort by fisheries and species^c, 1999.

	Days		DV																
	Trips	Fished	KS	SS	RS	PS	CS	LT	AC	RT	GR	WF	NP	BB	SM	HA	LC	RCL	OTHER
SALTWATER:																			
Upper Cook Inlet (Boat Sites North of Chinitna Point)	318	349	0	56	0	28	0	0	34	0	0	0	0	0	0	511	12	0	0
Lower Cook Inlet (Boat Sites South of Chinitna Point)	73	120	0	37	0	0	0	0	0	0	0	0	0	0	0	182	25	0	0
Razor Clams: Polly Creek Beach/Crescent River Bar	83	161	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3,307	0
Other Shoreline	164	254	22	100	142	102	0	0	0	0	0	0	0	0	0	0	0	1,329	0
SALTWATER TOTAL	391	511	22	123	142	107	0	0	34	0	0	0	0	0	0	545	28	3,584	0
FRESHWATER:																			
Deshka River (Kroto Creek) above weir	445	1,041	119	322	34	0	0	0	58	131	10	0	112	0	0	0	0	0	0
Deshka River (Kroto Creek) below weir	635	1,388	303	473	11	41	0	0	0	86	0	0	74	22	4,047	0	0	0	0
Lake Creek	738	2,049	380	1,399	622	124	74	0	0	185	98	68	17	16	0	0	0	0	0
Fish Lake Creek and Fish Lakes (Yentna Drainage)	469	766	277	578	334	0	26	0	35	78	20	0	207	65	0	0	0	0	0
Alexander Creek/Lake	1,256	1,675	348	344	108	34	26	0	0	0	0	0	200	37	426	0	0	0	0
Talachulitna River	385	1,061	295	450	175	42	51	0	34	0	147	0	84	0	0	0	0	0	0
Chuitna River	214	409	129	368	154	29	0	0	26	37	35	0	0	0	0	0	0	0	0
Theodore River	141	170	0	133	0	28	0	0	45	0	0	0	0	0	0	0	0	0	0
Kustatan River	316	595	0	549	132	0	41	0	272	0	0	0	0	0	0	0	0	0	0
Peters Creek	114	149	66	47	0	0	0	0	0	51	16	0	0	0	0	0	0	0	0
Silver Salmon Creek	513	694	0	218	0	0	0	0	109	0	0	0	0	0	0	0	0	0	0
Yentna River	346	807	244	438	157	55	15	0	11	48	0	0	38	0	2,645	0	0	0	0
Susitna River	78	99	28	56	21	0	0	0	0	0	0	0	0	74	9,630	0	0	0	0
Other Sites - Susitna River Drainages	577	1,116	115	474	168	13	55	44	11	167	116	0	551	191	0	0	0	0	0
Other Sites - Susitna to North Forelands	290	454	91	428	49	16	0	0	0	37	0	0	183	0	0	0	0	0	0
Other Sites - South of North Forelands	308	501	71	618	185	8	52	9	168	74	31	0	0	0	0	0	0	0	8
Other Streams	81	191	34	204	172	0	0	0	113	0	0	0	0	0	0	0	0	0	0
Big River Lakes	218	386	0	209	471	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Lakes	67	300	22	278	88	0	0	0	0	70	0	0	292	0	0	0	0	0	0
FRESHWATER TOTAL	2,112	4,034	787	2,159	966	155	132	45	368	323	215	68	729	223	11,064	0	0	0	8
GRAND TOTAL	2,139	4,058	787	2,167	978	195	132	45	368	323	215	68	729	223	11,064	545	28	3,584	8

^a 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.

^b 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.

^c Refer to Appendix A3 for common names and species abbreviations.

Appendix A79.-Kenai River^a sport fish freshwater nonguided harvest and effort by fisheries and species^b, 1999.

	Anglers	Trips	Days						DV										
			Fished	KS ^c	KS ^d	SS ^c	SS ^d	RS	PS	CS	LT	AC	RT	GR	WF	NP	SM	OTHER	
Kenai River - (Cook Inlet to Soldotna Bridge)	29,338	73,582	131,234	2,405	4,105	9,681	5,694	74,037	804	102	0	3,288	1,394	11	20	0	3,976	4	
Kenai River - (Soldotna Bridge to Moose River)	16,827	37,674	59,085	461	762	3,248	314	57,550	460	68	0	995	646	0	7	0	966	0	
Kenai River - (Moose River to Skilak Outlet)	8,605	22,940	39,265	425	299	853	1,620	26,892	52	22	284	1,797	1,489	0	24	0	0	0	
Kenai River - (Skilak Inlet to Kenai Lake)	12,028	22,082	34,722	0	0	1,373	767	32,197	106	47	0	618	0	42	0	0	0	0	
TOTAL	56,780^e	156,278	264,306	3,291	5,166	15,155	8,395	190,676	1,422	239	284	6,698	3,529	53	51	0	4,942	4	

^a 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.

^b Refer to Appendix A3 for common names and species abbreviations.

^c King salmon harvested prior to July 1; coho salmon harvested prior to September 1.

^d King salmon harvested after and including July 1; coho salmon harvested after and including September 1.

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

Appendix A80.-Kenai River^a standard errors^b of sport fish freshwater nonguided harvest and effort by fisheries and species^c, 1999.

	Days							DV									
	Trips	Fished	KS ^d	KS ^e	SS ^d	SS ^e	RS	PS	CS	LT	AC	RT	GR	WF	NP	SM	OTHER
Kenai River - (Cook Inlet to Soldotna Bridge)	4,336	7,760	207	284	1,016	795	5,299	208	53	0	550	281	11	12	0	1,899	4
Kenai River - (Soldotna Bridge to Moose River)	3,053	4,089	92	115	535	82	4,905	191	70	0	193	155	0	7	0	785	0
Kenai River - (Moose River to Skilak Outlet)	2,448	4,621	77	68	193	336	3,139	27	16	282	376	326	0	14	0	0	0
Kenai River - (Skilak Inlet to Kenai Lake)	1,677	2,473	0	0	337	212	3,477	59	36	0	271	0	41	0	0	0	0
TOTAL	6,072	10,117	234	318	1,199	890	8,667	293	96	282	763	456	43	19	0	2,061	4

^a 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.

^b 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.

^c Refer to Appendix A3 for common names and species abbreviations.

^d King salmon harvested prior to July 1; coho salmon harvested prior to September 1.

^e King salmon harvested after and including July 1; coho salmon harvested after and including September 1.

Appendix A81.-Kenai River^a sport fish freshwater guided harvest and effort by fisheries and species^b, 1999.

	Anglers	Days										DV							
		Trips	Fished	KS ^c	KS ^d	SS ^c	SS ^d	RS	PS	CS	LT	AC	RT	GR	WF	NP	SM	OTHER	
Kenai River - (Cook Inlet to Soldotna Bridge)	16,903	16,697	26,259	2,327	4,145	4,732	335	3,828	342	31	0	579	122	0	0	0	0	0	
Kenai River - (Soldotna Bridge to Moose River)	6,320	5,834	10,246	1,374	496	1,484	340	3,794	26	63	0	91	49	11	0	0	0	0	
Kenai River - (Moose River to Skilak Outlet)	1,921	1,486	2,308	335	11	415	192	677	105	0	0	135	84	0	9	0	0	0	
Kenai River - (Skilak Inlet to Kenai Lake)	3,096	2,978	4,327	0	0	578	11	1,599	0	0	9	65	0	0	0	0	0	0	
TOTAL	26,290^e	26,995	43,140	4,036	4,652	7,209	878	9,898	473	94	9	870	255	11	9	0	0	0	

^a 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.

^b Refer to Appendix A3 for common names and species abbreviations.

^c King salmon harvested prior to July 1; coho salmon harvested prior to September 1.

^d King salmon harvested after and including July 1; coho salmon harvested after and including September 1.

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

Appendix A82.-Kenai River^a standard errors^b of sport fish freshwater guided harvest and effort by fisheries and species^c, 1999.

	Days		DV														
	Trips	Fished	KS ^d	KS ^e	SS ^d	SS ^e	RS	PS	CS	LT	AC	RT	GR	WF	NP	SM	OTHER
Kenai River - (Cook Inlet to Soldotna Bridge)	890	1,344	215	268	665	85	715	203	22	0	150	39	0	0	0	0	0
Kenai River - (Soldotna Bridge to Moose River)	553	936	230	93	567	146	844	26	48	0	40	23	12	0	0	0	0
Kenai River - (Moose River to Skilak Outlet)	206	312	81	11	148	80	228	105	0	0	58	34	0	8	0	0	0
Kenai River - (Skilak Inlet to Kenai Lake)	388	560	0	0	219	10	440	0	0	9	48	0	0	0	0	0	0
TOTAL	1,110	1,771	330	287	921	187	1,234	230	53	9	176	57	12	8	0	0	0

^a 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.

^b 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.

^c Refer to Appendix A3 for common names and species abbreviations.

^d King salmon harvested prior to July 1; coho salmon harvested prior to September 1.

^e King salmon harvested after and including July 1; coho salmon harvested after and including September 1.

Appendix A83.-Kenai Peninsula Area^a sport fish freshwater harvest and effort by fisheries and species^b, 1999.

	Anglers	Days			DV																
		Trips	Fished	KS	SS	LL	RS	KO	PS	CS	LT	AC	SH	RT	GR	WF	NP	BB	SM	OTHER	
Anchor River	7,645	14,028	21,184	1,409	1,780	0	174	0	54	0	0	1,061	0	0	0	0	0	0	0	0	
Ninilchik River	6,247	7,954	15,344	1,945	2,980	0	964	0	107	0	0	114	0	0	0	0	0	0	0	0	
Deep Creek	4,849	6,051	11,367	741	2,651	0	214	0	165	0	0	496	0	0	0	0	0	0	0	13	
Resurrection Creek	1,307	1,164	2,167	0	233	0	0	0	691	230	0	91	0	0	0	0	0	0	0	0	
Quartz Creek	2,062	2,596	4,708	0	0	0	0	0	0	0	0	223	0	0	0	0	0	0	0	0	
Sixmile Creek Drainage	321	368	445	0	92	0	32	0	0	0	0	0	0	0	45	0	0	0	271	0	
Russian River	26,861	39,022	64,536	0	3,910	0	66,618	0	246	0	0	196	0	83	0	0	0	0	0	0	
Kasilof River - Nonguided Bank Fishing	10,499	19,065	27,223	3,556	763	0	4,190	0	21	0	284	790	0	0	0	0	0	0	0	0	
Kasilof River - Nonguided Boat Fishing	2,428	3,385	4,949	1,184	1,314	0	172	0	0	0	0	177	0	0	0	0	0	0	0	0	
Kasilof River - Guided Bank Fishing	863	826	1,427	179	82	0	179	0	0	0	0	34	0	0	0	0	0	0	0	0	
Kasilof River - Guided Boat Fishing	5,889	4,297	6,664	3,336	1,110	0	113	0	26	0	0	160	0	0	0	0	0	0	0	0	
Ptarmigan Creek	504	521	883	0	0	0	0	0	0	0	0	77	0	0	0	0	0	0	0	0	
Other Streams	2,129	2,672	5,347	36	693	0	1,021	0	69	0	27	557	0	97	37	0	0	0	0	0	
Swanson River	1,773	2,582	3,606	0	2,054	78	517	0	38	0	0	0	0	267	0	0	0	0	0	0	
Swanson River Canoe Route Lakes	1,484	1,762	3,279	0	0	20	21	0	0	0	0	348	0	1,759	0	0	0	0	0	0	
Swan Lake Canoe System	782	815	2,022	0	0	0	0	0	0	0	0	165	0	757	0	0	0	0	0	0	
Hidden Lake	1,142	1,379	2,017	0	7	0	859	0	0	0	545	0	0	58	0	0	0	0	0	7	
Crescent Lake	822	737	1,266	0	0	0	0	0	0	0	0	0	0	0	550	0	0	0	0	25	
Skilak Lake	610	805	1,182	0	0	0	0	0	0	0	621	110	0	119	0	0	0	0	0	0	
Tustumena Lake	465	324	599	0	48	0	0	0	0	0	81	88	0	73	0	0	0	0	0	0	
Kenai Lake	351	1,093	1,462	0	0	0	0	0	0	0	623	88	0	93	0	0	0	0	0	0	
Johnson Lake	533	1,231	1,712	0	0	0	0	0	0	0	0	0	0	2,525	0	0	0	0	0	0	
Other Lakes	4,340	7,019	13,782	0	118	765	64	0	0	0	446	609	0	5,687	408	0	329	0	81	12	
TOTAL	60,246^c	119,696	197,171	12,386	17,835	863	75,138	0	1,417	230	2,627	5,384	0	11,518	1,040	0	329	0	352	57	

^a 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.

^b Refer to Appendix A3 for common names and species abbreviations.

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

Appendix A84.-Kenai Peninsula Area^a standard errors^b of sport fish freshwater harvest and effort by fisheries and species^c, 1999.

	Days		DV																
	Trips	Fished	KS	SS	LL	RS	KO	PS	CS	LT	AC	SH	RT	GR	WF	NP	BB	SM	OTHER
Anchor River	1,670	2,399	192	455	0	116	0	51	0	0	282	0	0	0	0	0	0	0	0
Ninilchik River	862	2,493	260	936	0	318	0	109	0	0	63	0	0	0	0	0	0	0	0
Deep Creek	652	1,728	144	569	0	117	0	95	0	0	179	0	0	0	0	0	0	0	13
Resurrection Creek	225	393	0	165	0	0	0	247	105	0	82	0	0	0	0	0	0	0	0
Quartz Creek	588	1,611	0	0	0	0	0	0	0	0	106	0	0	0	0	0	0	0	0
Sixmile Creek Drainage	109	132	0	53	0	34	0	0	0	0	0	0	0	45	0	0	0	278	0
Russian River	1,693	2,877	0	591	0	3,867	0	116	0	0	92	0	34	0	0	0	0	0	0
Kasilof River - Nonguided Bank Fishing	1,670	2,238	355	238	0	1,084	0	16	0	276	463	0	0	0	0	0	0	0	0
Kasilof River - Nonguided Boat Fishing	486	842	204	597	0	119	0	0	0	0	127	0	0	0	0	0	0	0	0
Kasilof River - Guided Bank Fishing	151	306	72	46	0	151	0	0	0	0	26	0	0	0	0	0	0	0	0
Kasilof River - Guided Boat Fishing	315	528	332	244	0	70	0	26	0	0	73	0	0	0	0	0	0	0	0
Ptarmigan Creek	153	310	0	0	0	0	0	0	0	0	49	0	0	0	0	0	0	0	0
Other Streams	546	1,188	28	228	0	452	0	46	0	27	140	0	77	26	0	0	0	0	0
Swanson River	440	545	0	537	63	341	0	22	0	0	0	0	104	0	0	0	0	0	0
Swanson River Canoe Route Lakes	315	541	0	0	16	22	0	0	0	0	115	0	393	0	0	0	0	0	0
Swan Lake Canoe System	167	597	0	0	0	0	0	0	0	0	87	0	257	0	0	0	0	0	0
Hidden Lake	351	421	0	7	0	646	0	0	0	172	0	0	50	0	0	0	0	0	6
Crescent Lake	146	272	0	0	0	0	0	0	0	0	0	0	0	163	0	0	0	0	26
Skilak Lake	219	296	0	0	0	0	0	0	0	442	74	0	53	0	0	0	0	0	0
Tustumena Lake	76	142	0	38	0	0	0	0	0	78	59	0	55	0	0	0	0	0	0
Kenai Lake	571	647	0	0	0	0	0	0	0	376	67	0	62	0	0	0	0	0	0
Johnson Lake	464	564	0	0	0	0	0	0	0	0	0	0	1,165	0	0	0	0	0	0
Other Lakes	992	2,194	0	81	309	49	0	0	0	229	211	0	891	149	0	300	0	83	13
TOTAL	3,726	6,650	644	1,607	318	4,169	0	317	105	701	698	0	1,532	227	0	300	0	293	32

^a 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.

^b 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.

^c Refer to Appendix A3 for common names and species abbreviations.

Appendix A85.-Kenai Peninsula Area^a sport fish saltwater harvest and effort by fisheries for finfish species^b, 1999.

	Anglers	Trips	Days Fished	KS ^c	KS ^d	SS	RS	PS	CS	DV									PC	OTHER
										AC	SH	SM	HA	SK	RF	LC				
SALTWATER CHARTER BOAT:																				
Barren Islands	5,145	3,526	5,244	22	0	179	0	80	27	0	0	0	8,092	16	246	99	25	25		
Resurrection Bay (Seward)	17,128	13,604	21,168	169	109	23,417	108	1,232	63	34	0	54	13,787	29	8,873	1,495	220	380		
Anchor River, Whiskey Gulch, Deep Creek, and Ninilchik River Areas	21,324	18,918	28,279	2,309	373	965	235	106	27	78	0	89	35,545	24	70	103	345	52		
Other Cook Inlet North of Ninilchik River	649	948	1,203	300	50	0	128	0	16	45	0	0	1,556	0	0	0	34	0		
Other Cook Inlet/Gulf Coast West of Gore Point	28,355	21,702	33,393	1,230	429	2,311	451	469	9	45	0	17	44,520	26	2,064	512	481	49		
Other Gulf Coast East of Gore Point	714	1,388	1,794	25	0	636	0	53	16	0	0	0	1,301	8	580	102	9	0		
CHARTER BOAT TOTAL	68,328^e	60,086	91,081	4,055	961	27,508	922	1,940	158	202	0	160	104,801	103	11,833	2,311	1,114	506		
SALTWATER PRIVATE BOAT:																				
Barren Islands	674	717	2,478	0	0	77	0	0	0	0	0	17	1,337	0	265	50	0	37		
Resurrection Bay (Seward)	13,906	20,539	41,690	388	347	41,506	686	2,386	61	143	0	0	8,732	166	11,595	1,466	497	532		
Anchor River, Whiskey Gulch, Deep Creek, and Ninilchik River Areas	13,209	26,079	44,562	2,598	624	1,145	616	66	41	199	0	25	30,088	31	71	91	903	7		
Other Cook Inlet North of Ninilchik River	234	600	778	44	25	258	130	13	0	0	0	0	320	8	212	13	0	0		
Other Cook Inlet/Gulf Coast West of Gore Point	17,752	29,405	44,962	1,328	1,565	2,767	1,555	4,133	259	310	0	0	29,771	57	3,143	325	857	632		
Other Gulf Coast East of Gore Point	896	1,676	3,453	44	0	2,994	11	0	0	11	0	0	1,052	0	1,494	286	9	25		
PRIVATE BOAT TOTAL	40,601^e	79,016	137,923	4,402	2,561	48,747	2,998	6,598	361	663	0	42	71,300	262	16,780	2,231	2,266	1,233		
BOAT TOTAL	105,167^e	139,102	229,004	8,457	3,522	76,255	3,920	8,538	519	865	0	202	176,101	365	28,613	4,542	3,380	1,739		
SALTWATER SHORELINE:																				
Homer Spit (Kachemak Bay)	8,306	13,416	19,448	1,753	688	3,890	226	154	0	120	0	0	1,672	0	48	0	24	65		
Resurrection Bay (Seward)	6,876	8,169	16,427	429	1,020	7,034	226	889	523	33	0	0	1,005	31	1,354	0	67	33		
Anchor River, Whiskey Gulch, Deep Creek, and Ninilchik River Areas	571	853	1,062	81	7	57	0	0	0	0	0	0	32	22	0	0	0	0		
Shoreline - Other	912	1,705	2,362	260	77	424	460	13	0	299	0	0	152	0	110	66	0	273		
SHORELINE TOTAL	15,761^e	24,143	39,299	2,523	1,792	11,405	912	1,056	523	452	0	0	2,861	53	1,512	66	91	371		
GRAND TOTAL	113,760^e	163,245	268,303	10,980	5,314	87,660	4,832	9,594	1,042	1,317	0	202	178,962	418	30,125	4,608	3,471	2,110		

^a 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.

^b Refer to Appendix A3 for common names and species abbreviations.

^c King salmon harvested prior to June 25.

^d King salmon harvested after and including June 25.

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

Appendix A86-Kenai Peninsula Area^a standard errors^b of sport fish saltwater harvest and effort by fisheries for finfish species^c, 1999.

	Days		KS ^d	KS ^e	SS	RS	PS	CS	DV								
	Trips	Fished							AC	SH	SM	HA	SK	RF	LC	PC	OTHER
SALTWATER CHARTER BOAT:																	
Barren Islands	257	428	23	0	87	0	58	26	0	0	0	692	16	89	50	14	18
Resurrection Bay (Seward)	659	1,137	79	44	1,733	53	248	59	34	0	51	766	15	888	183	53	236
Anchor River, Whiskey Gulch, Deep Creek, and Ninilchik River Areas	874	1,421	252	76	366	102	63	27	43	0	63	1,746	17	40	51	82	42
Other Cook Inlet North of Ninilchik River	217	287	103	25	0	126	0	16	37	0	0	366	0	0	0	25	0
Other Cook Inlet/Gulf Coast West of Gore Point	1,019	1,468	179	90	415	224	163	9	23	0	16	1,771	15	471	114	104	32
Other Gulf Coast East of Gore Point	952	977	24	0	284	0	51	15	0	0	0	546	8	309	51	8	0
CHARTER BOAT TOTAL	1,949	2,723	342	128	1,841	282	314	74	70	0	82	2,925	31	1,076	238	145	241
SALTWATER PRIVATE BOAT:																	
Barren Islands	146	1,592	0	0	67	0	0	0	0	0	17	285	0	214	31	0	37
Resurrection Bay (Seward)	1,388	3,559	89	147	4,519	327	404	49	129	0	0	953	86	1,590	264	139	287
Anchor River, Whiskey Gulch, Deep Creek, and Ninilchik River Areas	2,510	4,138	290	128	440	375	65	41	93	0	24	2,407	22	69	57	444	6
Other Cook Inlet North of Ninilchik River	312	362	23	18	225	137	14	0	0	0	0	116	8	218	14	0	0
Other Cook Inlet/Gulf Coast West of Gore Point	2,117	2,922	182	288	573	612	961	165	140	0	0	1,906	26	615	83	213	265
Other Gulf Coast East of Gore Point	530	1,623	43	0	2,204	11	0	0	12	0	0	364	0	560	93	9	25
PRIVATE BOAT TOTAL	3,559	6,717	348	344	5,090	821	1,038	176	209	0	30	3,184	93	1,819	301	509	403
BOAT TOTAL	3,868	7,074	481	367	5,447	854	1,094	192	219	0	87	4,094	98	2,141	379	533	476
SALTWATER SHORELINE:																	
Homer Spit (Kachemak Bay)	1,766	2,170	255	118	765	96	86	0	54	0	0	294	0	42	0	19	46
Resurrection Bay (Seward)	690	1,693	135	234	1,049	107	309	387	24	0	0	281	19	520	0	41	33
Anchor River, Whiskey Gulch, Deep Creek, and Ninilchik River Areas	205	257	29	7	31	0	0	0	0	0	0	24	22	0	0	0	0
Shoreline - Other	538	607	117	53	224	329	13	0	158	0	0	76	0	78	35	0	250
SHORELINE TOTAL	1,950	2,770	309	265	1,292	360	319	387	165	0	0	407	30	527	35	46	261
GRAND TOTAL	4,337	7,614	580	447	5,605	927	1,154	432	279	0	87	4,114	103	2,187	379	535	531

^a 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.

^b 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.

^c Refer to Appendix A3 for common names and species abbreviations.

^d King salmon harvested prior to June 25.

^e King salmon harvested after and including June 25.

Appendix A87.-Kenai Peninsula Area^a sport fish harvest and effort by fisheries for shellfish^b, 1999.

	Anglers	Trips	Days Fished	HCL (Gals)	OS	RCL	KC	DC	TC	SHR (Gals)
SHELLFISH BETWEEN KASILOF AND ANCHOR POINT:										
Anchor River to Deep Creek	3,732	3,108	5,944	612	317	97,818	0	513	0	0
Deep Creek to Set Net Access	7,613	7,133	14,111	858	80	259,466	0	0	156	907
Clam Gulch Beach (Set Net Access to Kasilof River)	11,598	8,359	16,269	948	126	393,599	0	0	0	0
OTHER:										
Kachemak Bay (Homer)	4,410	4,986	9,123	7,971	216	4,524	0	90	8,508	67
Resurrection Bay (Seward)	292	280	407	720	19	808	0	0	118	0
Other Sites	80	38	91	93	0	0	0	0	0	0
TOTAL	24,877^c	23,904	45,945	11,202	758	756,215	0	603	8,782	974

^a 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.

^b Refer to Appendix A3 for common names and species abbreviations.

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

Appendix A88.-Kenai Peninsula Area^a standard errors^b of sport fish harvest and effort by fisheries for shellfish^c, 1999.

	Days		HCL		RCL	KC	DC	TC	SHR (Gals)
	Trips	Fished	(Gals)	OS					
SHELLFISH BETWEEN KASILOF AND ANCHOR POINT:									
Anchor River to Deep Creek	357	1,000	272	314	14,589	0	482	0	0
Deep Creek to Set Net Access	555	1,524	268	65	23,119	0	0	155	910
Clam Gulch Beach (Set Net Access to Kasilof River)	518	1,353	332	84	26,800	0	0	0	0
OTHER:									
Kachemak Bay (Homer)	618	1,212	992	79	1,869	0	66	2,489	52
Resurrection Bay (Seward)	104	134	581	19	615	0	0	121	0
Other Sites	21	51	82	0	0	0	0	0	0
TOTAL	1,065	2,610	1,311	346	38,112	0	489	2,506	916

^a 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.

^b 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.

^c Refer to Appendix A3 for common names and species abbreviations.

Appendix A89.-Kodiak Area^a sport fish harvest and effort by fisheries and species^b, 1999.

	Anglers	Trips	Days					DV												
			Fished	KS	SS	LL	RS	PS	CS	AC	SH	RT	GR	SM	HA	SK	RF	LC	RCL	OTHER
SALTWATER:																				
Boat - Chiniak Bay Area	5,052	11,792	18,036	2,482	8,471	0	485	911	27	703	0	0	0	0	8,548	8	2,557	1,029	0	37
Boat - Afognak Island Area	2,021	4,286	6,601	373	2,985	0	412	292	0	190	0	0	0	3,139	0	1,020	50	0	144	
Boat - Uyak Bay	711	1,066	1,939	59	724	0	86	106	0	0	0	0	0	1,248	0	357	64	0	20	
Boat - Other	3,039	4,649	8,757	1,091	2,816	0	293	530	57	548	61	0	0	4,908	0	1,119	508	0	108	
Shoreline - Chiniak Bay Area	1,411	4,522	6,298	22	693	0	194	2,034	176	1,033	0	0	0	368	0	106	63	0	0	
Shoreline - Afognak Island Area	593	1,914	3,020	33	828	0	237	132	0	352	0	0	0	105	0	268	0	0	0	
Shoreline - Afognak Lagoon (Litnik)	445	451	1,166	25	401	0	345	79	0	79	0	0	0	66	0	53	0	0	0	
Shoreline - Other	464	1,142	1,867	12	298	0	11	281	41	154	113	0	0	213	0	0	12	884	0	
SALTWATER TOTAL	10,965^c	29,822	47,684	4,097	17,216	0	2,063	4,365	301	3,059	174	0	0	18,595	8	5,480	1,726	884	309	
FRESHWATER:																				
Buskin River	4,532	12,818	19,382	198	3,422	0	1,467	2,573	16	688	0	0	0	0	0	0	0	0	0	
Pasagshak River	1,800	3,618	5,499	0	1,173	0	1,241	66	0	201	0	0	0	0	0	0	0	0	0	
Karluk River and Lagoon	1,498	1,740	6,239	1,766	71	0	2,072	13	0	169	94	0	0	0	0	0	0	0	0	
American River	2,307	4,002	7,003	0	1,090	0	0	2,042	95	607	0	0	0	0	0	0	0	0	0	
Olds River (or Creek)	2,018	3,775	6,852	0	1,349	0	0	998	0	605	0	0	0	0	0	0	0	0	37	
Red River (Ayakulik)	557	690	2,165	609	624	0	830	0	0	80	8	0	0	0	0	0	0	0	0	
Saltery Cove Streams	953	1,751	3,308	0	1,098	0	1,847	363	0	425	0	0	0	0	0	0	0	0	0	
Other Remote Streams	1,341	1,961	4,985	34	1,222	0	639	926	0	1,295	0	206	0	0	0	0	0	0	0	
Other Road System Streams	978	2,305	6,229	75	494	0	86	1,467	14	326	0	0	0	0	0	0	0	0	0	
Roadside Lakes	481	930	1,063	0	22	31	0	0	0	209	0	828	0	0	0	0	0	0	0	
Other Lakes	213	198	358	12	0	0	160	0	0	200	0	23	0	0	0	0	0	0	0	
FRESHWATER TOTAL	9,137^c	33,788	63,083	2,694	10,565	31	8,342	8,448	125	4,805	102	1,057	0	0	0	0	0	0	37	
GRAND TOTAL	15,565^c	63,610	110,767	6,791	27,781	31	10,405	12,813	426	7,864	276	1,057	0	0	18,595	8	5,480	1,726	884	346

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

^b Refer to Appendix A3 for common names and species abbreviations.

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

Appendix A90.-Kodiak Area^a standard errors^b of sport fish harvest and effort by fisheries and species^c, 1999.

	Days		DV																
	Trips	Fished	KS	SS	LL	RS	PS	CS	AC	SH	RT	GR	SM	HA	SK	RF	LC	RCL	OTHER
SALTWATER:																			
Boat - Chiniak Bay Area	1,724	2,523	499	1,185	0	177	235	27	469	0	0	0	0	1,014	8	542	229	0	19
Boat - Afognak Island Area	805	1,065	142	611	0	189	112	0	95	0	0	0	0	526	0	312	32	0	129
Boat - Uyak Bay	246	433	31	301	0	51	56	0	0	0	0	0	0	295	0	214	46	0	20
Boat - Other	610	1,265	316	603	0	218	185	43	222	61	0	0	0	657	0	335	145	0	78
Shoreline - Chiniak Bay Area	924	1,306	21	240	0	132	629	138	407	0	0	0	0	179	0	106	38	0	0
Shoreline - Afognak Island Area	895	1,313	33	343	0	104	128	0	233	0	0	0	0	78	0	189	0	0	0
Shoreline - Afognak Lagoon (Litnik)	155	459	24	180	0	228	57	0	57	0	0	0	0	38	0	54	0	0	0
Shoreline - Other	469	537	12	149	0	10	202	39	87	115	0	0	0	84	0	0	12	891	0
SALTWATER TOTAL	2,394	3,636	621	1,565	0	446	754	152	719	127	0	0	0	1,340	8	757	288	891	156
FRESHWATER:																			
Buskin River	1,729	2,682	113	557	0	384	635	15	231	0	0	0	0	0	0	0	0	0	0
Pasagshak River	770	1,210	0	397	0	646	36	0	95	0	0	0	0	0	0	0	0	0	0
Karluk River and Lagoon	311	945	317	44	0	526	13	0	79	65	0	0	0	0	0	0	0	0	0
American River	578	1,437	0	260	0	0	692	67	280	0	0	0	0	0	0	0	0	0	0
Olds River (or Creek)	618	1,426	0	297	0	0	294	0	346	0	0	0	0	0	0	0	0	0	38
Red River (Ayakulik)	176	491	207	278	0	292	0	0	54	8	0	0	0	0	0	0	0	0	0
Saltery Cove Streams	333	816	0	336	0	527	202	0	201	0	0	0	0	0	0	0	0	0	0
Other Remote Streams	392	1,319	25	337	0	295	499	0	627	0	127	0	0	0	0	0	0	0	0
Other Road System Streams	449	1,732	78	187	0	67	457	14	231	0	0	0	0	0	0	0	0	0	0
Roadside Lakes	277	295	0	21	31	0	0	0	132	0	380	0	0	0	0	0	0	0	0
Other Lakes	63	119	12	0	0	118	0	0	107	0	24	0	0	0	0	0	0	0	0
FRESHWATER TOTAL	2,212	4,361	406	964	31	1,146	1,235	70	883	65	403	0	0	0	0	0	0	0	38
GRAND TOTAL	3,280	5,868	749	1,872	31	1,248	1,479	169	1,134	145	403	0	0	1,340	8	757	288	891	160

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

^b 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.

^c Refer to Appendix A3 for common names and species abbreviations.

Appendix A91.-Naknek River Drainage-Alaska Peninsula Area^a sport fish harvest and effort by fisheries and species^b, 1999.

	Anglers	Trips	Days			DV																
			Fished	KS	SS	RS	KO	PS	CS	LT	AC	SH	RT	GR	WF	NP	BB	SM	HA	RF	LC	OTHER
SALTWATER:																						
Boat - Unalaska Bay	1,193	3,173	4,425	0	100	151	0	1,477	0	0	100	0	0	0	0	0	0	0	2,578	32	0	186
Boat - Other	846	2,626	4,332	77	207	546	0	121	188	0	64	0	0	0	0	0	0	0	1,433	106	27	99
Shoreline	369	1,128	2,233	0	469	378	0	469	0	0	221	0	0	0	0	0	0	0	105	0	0	0
SALTWATER TOTAL	2,165^c	6,927	10,990	77	776	1,075	0	2,067	188	0	385	0	0	0	0	0	0	0	4,116	138	27	285
FRESHWATER:																						
Cold Bay Area (including Russel Creek)	382	585	2,515	23	1,387	49	0	0	0	0	44	0	0	0	0	0	0	0	0	0	0	0
Naknek River above Rapids Camp	1,784	5,005	7,509	138	1,597	1,257	0	53	14	0	247	0	343	22	0	39	0	2,708	0	0	0	81
Naknek River below Rapids Camp	2,789	7,550	13,680	2,559	2,075	626	0	0	90	0	88	0	0	21	0	107	0	948	0	0	0	0
Brooks River	881	905	1,418	0	22	85	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
American Creek	575	546	1,081	0	0	0	0	0	0	0	0	0	280	0	0	0	0	0	0	0	0	0
Unalaska Bay Streams	411	1,820	3,809	0	492	97	0	308	0	0	540	0	0	0	0	0	0	0	0	0	0	0
Other Streams	1,045	2,801	4,230	242	1,455	269	0	253	58	333	467	0	0	127	0	0	0	0	0	0	0	0
Ugashik System	791	1,146	2,008	142	830	22	0	0	0	45	228	0	0	0	0	19	0	2,889	0	0	0	0
Becharof System	405	1,501	1,868	22	44	452	0	0	0	0	78	0	0	0	0	0	0	0	0	0	0	0
Other Systems	122	83	236	0	0	0	0	0	0	0	11	0	0	0	0	0	0	0	0	0	0	0
Naknek Lake - Bay of Islands	353	713	788	0	0	0	0	0	0	0	0	0	23	0	0	19	0	0	0	0	0	0
Naknek Lake - Other	246	214	382	0	0	111	0	0	0	0	11	0	37	0	0	47	0	0	0	0	0	0
Other Lakes	333	479	777	0	0	189	0	0	78	35	114	0	0	21	0	0	0	0	0	0	0	0
FRESHWATER TOTAL	6,820^c	23,348	40,301	3,126	7,902	3,157	0	614	240	413	1,828	0	683	191	0	231	0	6,545	0	0	0	81
GRAND TOTAL	8,329^c	30,275	51,291	3,203	8,678	4,232	0	2,681	428	413	2,213	0	683	191	0	231	0	6,545	4,116	138	27	366

^a 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.

^b Refer to Appendix A3 for common names and species abbreviations.

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

Appendix A92.-Naknek River Drainage-Alaska Peninsula Area^a standard errors^b of sport fish harvest and effort by fisheries and species^c, 1999.

	Days		DV																			
	Trips	Fished	KS	SS	RS	KO	PS	CS	LT	AC	SH	RT	GR	WF	NP	BB	SM	HA	RF	LC	OTHER	
SALTWATER:																						
Boat - Unalaska Bay	780	1,106	0	78	141	0	876	0	0	71	0	0	0	0	0	0	0	634	32	0	173	
Boat - Other	729	1,275	40	147	280	0	118	186	0	47	0	0	0	0	0	0	0	426	109	27	96	
Shoreline	512	970	0	317	265	0	357	0	0	136	0	0	0	0	0	0	0	84	0	0	0	
SALTWATER TOTAL	1,152	1,906	40	364	410	0	958	186	0	158	0	0	0	0	0	0	0	743	113	27	198	
FRESHWATER:																						
Cold Bay Area (including Russel Creek)	270	1,590	23	637	49	0	0	0	0	44	0	0	0	0	0	0	0	0	0	0	0	
Naknek River above Rapids Camp	1,002	1,434	66	447	432	0	52	14	0	140	0	144	16	0	30	0	2,648	0	0	0	79	
Naknek River below Rapids Camp	1,355	2,492	376	554	225	0	0	42	0	55	0	0	21	0	87	0	621	0	0	0	0	
Brooks River	187	274	0	22	56	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
American Creek	127	304	0	0	0	0	0	0	0	0	0	279	0	0	0	0	0	0	0	0	0	
Unalaska Bay Streams	873	2,463	0	186	56	0	201	0	0	395	0	0	0	0	0	0	0	0	0	0	0	
Other Streams	798	1,149	107	576	130	0	197	42	301	194	0	0	107	0	0	0	0	0	0	0	0	
Ugashik System	320	459	101	431	22	0	0	0	27	85	0	0	0	0	19	0	2,981	0	0	0	0	
Becharof System	656	696	23	44	271	0	0	0	0	40	0	0	0	0	0	0	0	0	0	0	0	
Other Systems	33	116	0	0	0	0	0	0	0	11	0	0	0	0	0	0	0	0	0	0	0	
Naknek Lake - Bay of Islands	296	307	0	0	0	0	0	0	0	0	0	23	0	0	19	0	0	0	0	0	0	
Naknek Lake - Other	87	140	0	0	64	0	0	0	0	11	0	37	0	0	47	0	0	0	0	0	0	
Other Lakes	168	244	0	0	91	0	0	76	35	76	0	0	21	0	0	0	0	0	0	0	0	
FRESHWATER TOTAL	2,287	4,481	407	1,228	580	0	280	98	305	476	0	323	111	0	106	0	4,073	0	0	0	79	
GRAND TOTAL	2,548	4,818	408	1,270	703	0	991	211	305	495	0	323	111	0	106	0	4,073	743	113	27	214	

^a 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.

^b 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.

^c Refer to Appendix A3 for common names and species abbreviations.

Appendix A93.-Kvichak River Drainage Area^a sport fish harvest and effort by fisheries and species^b, 1999.

	Anglers	Days				DV													
		Trips	Fished	KS	SS	RS	PS	CS	LT	AC	RT	GR	WF	NP	BB	SM	HA	OTHER	
SALTWATER:																			
Boat	144	75	166	37	0	0	0	0	0	0	0	0	0	0	0	0	13	0	
SALTWATER TOTAL	144 ^c	75	166	37	0	0	0	0	0	0	0	0	0	0	0	0	13	0	
FRESHWATER:																			
Kvichak River	1,927	2,738	5,095	0	146	3,516	0	78	0	33	135	118	0	81	0	0	0	0	
Newhalen River	1,620	3,171	5,178	0	178	6,356	0	0	0	177	724	135	68	19	0	0	0	0	
Alagnak (Branch) River	1,836	2,346	6,411	592	305	1,249	49	579	79	68	57	32	0	9	0	0	0	0	
Copper River (tributary of Lake Iliamna)	1,351	1,801	3,359	22	177	825	0	0	0	0	49	0	0	16	0	0	0	0	
Lower Talarik Creek	501	532	603	0	23	108	0	0	0	0	0	0	0	0	0	0	0	0	
Kulik River	435	348	726	0	0	0	0	0	14	0	0	0	0	0	0	0	0	0	
Moraine Creek	435	398	821	0	0	0	0	0	0	0	11	0	0	0	0	0	0	0	
Tazimina River	248	331	589	25	0	132	0	0	0	0	0	0	0	0	0	0	0	0	
Other Streams	1,137	1,488	2,651	0	220	559	0	0	0	46	0	43	0	115	0	0	0	0	
Lake Iliamna	606	856	2,153	0	0	846	0	31	0	46	98	0	0	0	0	0	0	0	
Lake Clark	793	1,417	2,331	0	0	161	0	16	427	11	12	207	0	19	0	0	0	0	
Other Lakes	737	2,818	5,176	0	0	257	0	0	239	78	70	215	0	385	77	0	0	0	
FRESHWATER TOTAL	7,132 ^c	18,244	35,093	639	1,049	14,009	49	704	759	459	1,145	761	68	644	77	0	0	0	
GRAND TOTAL	7,194 ^c	18,319	35,259	676	1,049	14,009	49	704	759	459	1,145	761	68	644	77	0	13	0	

^a 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.

^b Refer to Appendix A3 for common names and species abbreviations.

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

Appendix A94.-Kvichak River Drainage Area^a standard errors^b of sport fish harvest and effort by fisheries and species^c, 1999.

	Days		DV														
	Trips	Fished	KS	SS	RS	PS	CS	LT	AC	RT	GR	WF	NP	BB	SM	HA	OTHER
SALTWATER:																	
Boat	38	85	36	0	0	0	0	0	0	0	0	0	0	0	0	13	0
SALTWATER TOTAL	38	85	36	0	0	0	0	0	0	0	0	0	0	0	0	13	0
FRESHWATER:																	
Kvichak River	563	905	0	65	783	0	81	0	25	76	61	0	37	0	0	0	0
Newhalen River	936	1,673	0	83	1,202	0	0	0	123	697	90	71	19	0	0	0	0
Alagnak (Branch) River	648	952	165	134	295	39	241	59	43	57	33	0	10	0	0	0	0
Copper River (tributary of Lake Iliamna)	547	709	22	155	353	0	0	0	0	34	0	0	16	0	0	0	0
Lower Talarik Creek	147	146	0	22	106	0	0	0	0	0	0	0	0	0	0	0	0
Kulik River	107	217	0	0	0	0	0	14	0	0	0	0	0	0	0	0	0
Moraine Creek	96	214	0	0	0	0	0	0	0	0	11	0	0	0	0	0	0
Tazimina River	168	332	25	0	124	0	0	0	0	0	0	0	0	0	0	0	0
Other Streams	244	428	0	131	252	0	0	0	47	0	26	0	118	0	0	0	0
Lake Iliamna	335	861	0	0	431	0	30	0	46	98	0	0	0	0	0	0	0
Lake Clark	414	660	0	0	83	0	15	331	12	11	98	0	19	0	0	0	0
Other Lakes	1,634	3,271	0	0	223	0	0	112	50	73	126	0	373	79	0	0	0
FRESHWATER TOTAL	2,315	4,296	170	261	1,638	39	259	358	160	717	199	71	395	79	0	13	0
GRAND TOTAL	2,315	4,296	174	261	1,638	39	259	358	160	717	199	71	395	79	0	13	0

^a 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.

^b 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.

^c Refer to Appendix A3 for common names and species abbreviations.

Appendix A95.-Nushagak Area^a sport fish harvest and effort by fisheries and species^b, 1999.

	Anglers	Trips	Days								DV							
			Fished	KS	SS	RS	KO	PS	CS	LT	AC	RT	GR	WF	NP	BB	SM	OTHER
SALTWATER:																		
Boat	201	146	469	144	12	0	0	0	0	0	23	0	0	0	0	0	0	
Shoreline	65	137	153	50	0	11	0	0	94	0	0	0	0	0	0	0	0	
SALTWATER TOTAL	250 ^c	283	622	194	12	11	0	0	94	0	23	0	0	0	0	0	0	
FRESHWATER:																		
Nushagak River - Black Pt. to outlet of Iowithia R.	1,741	2,290	5,472	1,867	37	353	0	80	1,005	0	143	0	0	197	0	2,044	0	
Nushagak River - Iowithia R. to outlet of Mulchatna R.	979	941	2,878	748	35	0	0	0	117	0	144	82	267	7	47	25	0	
Nushagak River - upstream from mouth of Mulchatna R.	1,198	1,223	4,058	487	143	22	0	0	137	0	259	96	687	0	65	0	0	
Other Nushagak System	921	956	2,620	792	146	11	0	0	230	0	46	73	74	0	0	0	0	
Wood River Lakes System	2,203	4,748	8,808	113	373	723	0	0	31	124	855	154	64	0	173	0	66	
Tikchik-Nuyakuk Lake System	767	844	1,899	12	73	0	0	0	31	211	98	0	56	0	11	0	0	
Togiak River System	1,246	1,598	4,059	644	1,109	309	0	0	117	0	674	11	10	8	0	0	487	
Mulchatna River	578	1,209	2,642	262	0	137	0	0	59	0	34	278	345	0	9	0	0	
Chilikadrotna River	245	336	1,231	0	49	107	0	0	0	0	148	235	260	0	0	0	0	
Other Streams	527	567	1,899	178	221	135	0	13	208	8	102	35	359	0	5	0	0	
Other Lakes	217	177	444	0	0	0	0	0	0	50	22	0	32	0	9	0	0	
FRESHWATER TOTAL	7,762 ^c	14,889	36,010	5,103	2,186	1,797	0	93	1,935	393	2,525	964	2,154	15	516	25	2,531	
GRAND TOTAL	7,918 ^c	15,172	36,632	5,297	2,198	1,808	0	93	2,029	393	2,548	964	2,154	15	516	25	2,531	

^a 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.

^b Refer to Appendix A3 for common names and species abbreviations.

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

Appendix A96.-Nushagak Area^a standard errors^b of sport fish harvest and effort by fisheries and species^c, 1999.

	Days		DV														
	Trips	Fished	KS	SS	RS	KO	PS	CS	LT	AC	RT	GR	WF	NP	BB	SM	OTHER
SALTWATER:																	
Boat	45	165	78	13	0	0	0	0	0	23	0	0	0	0	0	0	0
Shoreline	107	111	53	0	11	0	0	99	0	0	0	0	0	0	0	0	0
SALTWATER TOTAL	116	197	94	13	11	0	0	99	0	23	0	0	0	0	0	0	0
FRESHWATER:																	
Nushagak River - Black Pt. to outlet of Iowithia R.	412	836	275	21	231	0	79	425	0	130	0	0	0	175	0	1,961	0
Nushagak River - Iowithia R. to outlet of Mulchatna R.	183	595	191	26	0	0	0	81	0	67	46	140	7	37	24	0	0
Nushagak River - upstream from mouth of Mulchatna R.	216	783	135	63	21	0	0	67	0	137	52	215	0	50	0	0	0
Other Nushagak System	189	539	186	93	11	0	0	154	0	46	64	61	0	0	0	0	0
Wood River Lakes System	573	1,126	47	128	286	0	0	32	95	237	67	39	0	81	0	0	64
Tikchik-Nuyakuk Lake System	144	389	13	72	0	0	0	32	93	52	0	44	0	11	0	0	0
Togiak River System	291	738	158	290	134	0	0	63	0	343	12	10	8	0	0	492	0
Mulchatna River	657	824	89	0	74	0	0	38	0	26	135	237	0	9	0	0	0
Chilikadrotna River	202	636	0	40	105	0	0	0	0	71	141	147	0	0	0	0	0
Other Streams	147	467	86	142	70	0	13	159	8	73	27	168	0	5	0	0	0
Other Lakes	75	164	0	0	0	0	0	0	30	16	0	19	0	9	0	0	0
FRESHWATER TOTAL	1,091	2,271	476	376	409	0	80	487	138	479	226	422	10	204	24	2,003	64
GRAND TOTAL	1,097	2,277	485	377	410	0	80	497	138	478	226	422	10	204	24	2,003	64

^a 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.

^b 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.

^c Refer to Appendix A3 for common names and species abbreviations.

Appendix A97.-Tanana River Drainages^a sport fish harvest and effort by fisheries and species^b, 1999.

	Anglers	Trips	Days						DV										
			Fished	KS	SS	LL	CS	LT	AC	RT	GR ^c	GR ^d	WF	SF	NP ^e	NP ^f	BB	OTHER	
Upper Chena River	6,647	12,139	18,909	0	0	0	0	0	0	0	0	0	0	41	22	9	9	63	0
Lower Chena River ^g	5,133	15,293	21,682	442	0	0	379	0	0	0	0	0	0	7	104	0	287	0	0
Piledriver Slough	2,412	6,668	9,331	11	0	0	0	0	0	1,951	0	0	82	0	28	0	165	0	0
Nenana River Drainage (excluding Brushkana Creek)	402	557	1,063	11	33	0	0	0	0	0	67	316	0	0	0	0	0	0	0
Lower Chatanika River & tributaries (downstream of Elliot Hwy)	1,643	2,851	4,477	36	0	0	0	0	0	0	0	867	0	44	105	85	0	0	0
Upper Chatanika River (upstream of Elliot Hwy)	1,629	2,673	4,102	0	0	0	0	0	0	0	0	573	0	0	0	19	0	0	0
Salcha River	2,833	5,258	7,539	445	0	0	0	0	0	0	0	1,524	27	0	38	19	13	0	0
Delta Clearwater River	1,859	3,052	5,705	0	76	0	0	0	0	0	0	0	14	0	0	0	0	0	0
Goodpaster River	594	613	1,915	0	0	0	0	0	0	0	677	175	0	0	9	9	51	0	0
Brushkana Creek	729	766	1,393	0	0	0	0	0	11	0	214	180	0	0	0	0	0	0	0
Lower Tanana River	127	181	307	12	0	0	0	0	0	0	0	0	0	0	70	9	101	0	0
Middle Tanana River	818	2,527	3,231	33	76	0	14	0	33	0	11	23	7	0	9	0	1,933	0	0
Upper Tanana River	362	663	863	11	0	0	0	0	110	0	248	79	0	0	28	47	181	0	0
Delta River (below Tangle Lakes)	378	356	1,023	0	0	0	0	14	0	0	147	493	0	0	0	0	0	0	0
Other Streams	2,058	2,649	5,556	0	85	0	81	0	132	0	411	885	0	14	55	28	254	0	0
Birch Lake	4,681	5,219	10,010	0	0	1,110	0	0	694	7,796	45	158	0	0	0	0	0	0	0
Quartz Lake	6,125	9,040	17,812	0	0	5,614	0	0	2,179	18,179	0	0	0	0	0	0	0	0	0
Fielding Lake	749	468	1,154	0	0	0	0	43	0	0	172	473	0	0	0	0	0	0	0
Minto Flats	1,034	1,248	2,431	0	0	0	0	0	0	0	68	226	27	27	380	528	0	0	0
Tangle Lakes and Tangle River	2,725	2,157	4,670	0	0	0	0	484	0	0	560	1,244	0	0	0	0	8	0	0
Chena Lake (Lake only)	2,812	4,039	6,962	0	0	526	0	0	352	5,068	0	0	0	0	0	0	0	0	0
Harding Lake	1,626	1,959	2,973	0	0	0	0	89	645	0	0	0	0	0	19	47	38	0	0
Dune Lake	676	504	995	0	0	614	0	0	0	1,986	131	358	0	0	0	0	0	0	0
George Lake	725	656	1,417	0	0	0	0	0	0	0	0	0	0	0	307	37	0	0	0
Bathing Beauty Pond	347	522	842	0	0	0	0	0	0	491	11	34	0	0	0	0	0	0	0
Steese Ponds	909	1,401	2,239	0	0	0	0	0	11	3,843	135	323	0	0	0	9	0	0	0
Chena Hot Springs Road Ponds	1,514	2,443	3,727	0	0	0	0	0	0	1,391	271	0	0	0	0	0	0	0	0
Coal Mine Road Lakes	496	357	781	0	0	0	0	14	22	93	0	0	0	0	0	0	0	0	0
Other Lakes	4,608	8,737	17,318	0	181	773	0	501	662	7,428	237	187	37	0	778	140	54	0	0
TOTAL	30,833^h	94,996	160,427	1,001	451	8,637	474	1,145	4,851	48,226	3,405	8,118	235	114	1,939	986	3,148	0	0

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

^b Refer to Appendix A3 for common names and species abbreviations.

^c Arctic grayling less than 12 inches.

^d Arctic grayling 12 inches and over.

^e Northern pike 30 inches and under.

^f Northern pike over 30 inches

^g Includes Badger Slough which is sometimes called Chena Slough.

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

Appendix A98.-Tanana River Drainages^a standard errors^b of sport fish harvest and effort by fisheries an species^c, 1999.

	Days							DV									
	Trips	Fished	KS	SS	LL	CS	LT	AC	RT	GR ^d	GR ^e	WF	SF	NP ^f	NP ^g	BB	OTHER
Upper Chena River	1,326	1,912	0	0	0	0	0	0	0	0	0	33	22	10	9	67	0
Lower Chena River ^h	2,064	2,728	118	0	0	230	0	0	0	0	0	0	7	57	0	117	0
Piledriver Slough	1,070	1,594	11	0	0	0	0	0	686	0	0	67	0	20	0	96	0
Nenana River Drainage (excluding Brushkana Creek)	222	555	11	35	0	0	0	0	0	45	270	0	0	0	0	0	0
Lower Chatanika River & tributaries (downstream of Elliot Hwy)	537	916	22	0	0	0	0	0	0	0	284	0	24	67	66	0	0
Upper Chatanika River (upstream of Elliot Hwy)	444	741	0	0	0	0	0	0	0	0	227	0	0	0	19	0	0
Salcha River	1,041	1,219	152	0	0	0	0	0	0	0	388	16	0	26	19	12	0
Delta Clearwater River	783	1,652	0	39	0	0	0	0	0	0	0	14	0	0	0	0	0
Goodpaster River	178	615	0	0	0	0	0	0	0	255	67	0	0	9	9	51	0
Brushkana Creek	305	472	0	0	0	0	0	11	0	91	76	0	0	0	0	0	0
Lower Tanana River	90	143	12	0	0	0	0	0	0	0	0	0	0	45	9	81	0
Middle Tanana River	788	1,073	24	66	0	13	0	24	0	12	16	7	0	9	0	568	0
Upper Tanana River	244	277	11	0	0	0	0	111	0	220	70	0	0	21	31	103	0
Delta River (below Tangle Lakes)	114	307	0	0	0	0	14	0	0	83	225	0	0	0	0	0	0
Other Streams	374	890	0	86	0	84	0	96	0	117	231	0	13	32	21	156	0
Birch Lake	602	1,253	0	0	511	0	0	227	1,812	36	90	0	0	0	0	0	0
Quartz Lake	1,381	3,466	0	0	1,824	0	0	640	5,216	0	0	0	0	0	0	0	0
Fielding Lake	110	296	0	0	0	0	25	0	0	73	176	0	0	0	0	0	0
Minto Flats	332	748	0	0	0	0	0	0	0	70	152	27	19	102	139	0	0
Tangle Lakes and Tangle River	268	606	0	0	0	0	146	0	0	139	276	0	0	0	0	8	0
Chena Lake (Lake only)	666	1,548	0	0	269	0	0	159	1,311	0	0	0	0	0	0	0	0
Harding Lake	372	546	0	0	0	0	58	528	0	0	0	0	0	13	28	37	0
Dune Lake	144	269	0	0	240	0	0	0	1,089	103	246	0	0	0	0	0	0
George Lake	194	395	0	0	0	0	0	0	0	0	0	0	0	180	22	0	0
Bathing Beauty Pond	162	291	0	0	0	0	0	0	280	11	34	0	0	0	0	0	0
Steese Ponds	391	658	0	0	0	0	0	12	2,413	131	305	0	0	0	9	0	0
Chena Hot Springs Road Ponds	583	825	0	0	0	0	0	0	759	152	0	0	0	0	0	0	0
Coal Mine Road Lakes	107	244	0	0	0	0	13	22	57	0	0	0	0	0	0	0	0
Other Lakes	919	2,201	0	130	427	0	264	360	1,309	130	94	36	0	322	48	52	0
TOTAL	3,929	6,966	194	174	1,964	247	307	933	6,386	524	906	88	40	397	171	623	0

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

^b 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.

^c Refer to Appendix A3 for common names and species abbreviations.

^d Arctic grayling less than 12 inches.

^e Arctic grayling 12 inches and over.

^f Northern pike 30 inches and under.

^h Includes Badger Slough which is sometimes called Chena Slough.

Appendix A99.-Kuskokwim-Goodnews Drainages^a sport fish harvest and effort by fisheries and species^b, 1999.

	Anglers	Trips	Days							DV									
			Fished	KS	SS	RS	PS	CS	LT	AC	RT	GR	WF	SF	NP	BB	SM	HA	OTHER
SALTWATER:																			
Boat	77	126	159	34	72	32	0	0	0	0	0	0	0	0	0	0	0	0	0
Shoreline	79	51	79	25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SALTWATER TOTAL	156^c	177	238	59	72	32	0	0	0	0	0	0	0	0	0	0	0	0	27
FRESHWATER:																			
Kuskokwim-Goodnews Drainages above Aniak River:																			
Holitna River	457	736	1,236	25	893	0	0	0	0	112	0	74	0	102	106	0	0	0	0
Other Streams	213	280	649	11	135	22	0	0	0	0	0	68	0	28	0	0	0	0	0
Other Lakes	121	204	322	0	0	11	0	0	63	0	0	0	0	38	0	0	0	0	0
Total Kuskokwim-Goodnews Drainages above Aniak River	625^c	1,220	2,207	36	1,028	33	0	0	63	112	0	142	0	130	144	0	0	0	0
Kuskokwim-Goodnews Drainages below Aniak River:																			
Aniak River	789	1,045	3,235	134	436	21	0	139	18	114	175	437	9	81	94	13	0	0	0
Kanektok River	1,420	1,488	8,194	854	1,091	496	0	293	0	615	73	159	0	0	0	0	0	0	0
Goodnews River	1,552	1,277	8,353	223	789	561	0	47	25	917	133	84	0	0	0	0	0	0	0
Other Streams	560	1,063	2,532	109	510	0	0	41	0	225	117	63	0	0	0	76	0	0	0
Other Lakes	125	62	269	0	24	0	0	0	8	21	0	0	0	0	0	0	0	0	0
Total Kuskokwim-Goodnews Drainages below Aniak River	4,169^c	4,935	22,583	1,320	2,850	1,078	0	520	51	1,892	498	743	9	81	94	89	0	0	0
Other Streams	442	619	1,214	25	24	11	0	0	0	34	12	405	0	57	292	139	0	0	0
Other Lakes	170	151	321	0	0	0	0	0	14	0	0	0	0	0	18	0	0	0	0
FRESHWATER TOTAL	5,159^c	6,925	26,325	1,381	3,902	1,122	0	520	128	2,038	510	1,290	9	268	548	228	0	0	0
GRAND TOTAL	5,219^c	7,102	26,563	1,440	3,974	1,154	0	520	128	2,038	510	1,290	9	268	548	228	0	0	27

^a 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.

^b Refer to Appendix A3 for common names and species abbreviations.

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

Appendix A100.-Kuskokwim-Goodnews Drainages^a standard errors^b of sport fish harvest and effort by fisheries and species^c, 1999.

	Days		DV															
	Trips	Fished	KS	SS	RS	PS	CS	LT	AC	RT	GR	WF	SF	NP	BB	SM	HA	OTHER
SALTWATER:																		
Boat	80	93	26	62	34	0	0	0	0	0	0	0	0	0	0	0	0	0
Shoreline	27	45	24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	27
SALTWATER TOTAL	83	103	35	62	34	0	0	0	0	0	0	0	0	0	0	0	0	27
FRESHWATER:																		
Kuskokwim-Goodnews Drainages above Aniak River:																		
Holitna River	177	292	18	429	0	0	0	0	74	0	57	0	57	88	0	0	0	0
Other Streams	101	283	11	79	15	0	0	0	0	0	70	0	19	0	0	0	0	0
Other Lakes	154	182	0	0	11	0	0	56	0	0	0	0	0	37	0	0	0	0
Total Kuskokwim River Drainages above Aniak River	257	449	22	440	19	0	0	56	74	0	91	0	61	95	0	0	0	0
Kuskokwim-Goodnews Drainages below Aniak River:																		
Aniak River	315	847	56	197	22	0	89	17	55	178	250	8	69	96	13	0	0	0
Kanektok River	351	1,284	259	307	387	0	135	0	192	71	104	0	0	0	0	0	0	0
Goodnews River	269	1,683	93	254	451	0	34	18	265	99	63	0	0	0	0	0	0	0
Other Streams	266	537	110	155	0	0	41	0	83	121	51	0	0	0	79	0	0	0
Other Lakes	28	136	0	24	0	0	0	8	21	0	0	0	0	0	0	0	0	0
Total Kuskokwim River Drainages below Aniak River	609	2,340	297	468	608	0	173	27	342	247	287	8	69	96	80	0	0	0
Other Streams	234	352	18	17	11	0	0	0	24	12	241	0	35	210	128	0	0	0
Other Lakes	95	145	0	0	0	0	0	14	0	0	0	0	0	12	0	0	0	0
FRESHWATER TOTAL	703	2,415	299	643	608	0	173	64	348	247	394	8	98	246	149	0	0	0
GRAND TOTAL	710	2,423	302	648	610	0	173	64	348	247	394	8	98	246	149	0	0	27

^a 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.

^b 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.

^c Refer to Appendix A3 for common names and species abbreviations.

Appendix A101.-Seward Peninsula-Norton Sound Drainages^a sport fish harvest and effort by fisheries and species^b, 1999.

	Anglers	Days					DV													
		Trips	Fished	KS	SS	RS	PS	CS	AC	GR ^c	GR ^d	WF	SF	NP	BB	SM	KC	HA	OTHER	
SALTWATER:																				
Boat	455	298	653	55	710	0	13	0	330	0	0	0	0	0	0	1,354	0	213	1,146	
Shoreline	392	491	763	22	153	0	0	0	0	0	0	0	0	0	0	0	216	35	73	
SALTWATER TOTAL	838^e	789	1,416	77	863	0	13	0	330	0	0	0	0	0	0	1,354	216	248	1,219	
FRESHWATER:																				
Nome River	564	1,093	1,463	0	219	0	0	0	791	0	0	0	0	0	0	0	0	0	0	
Pilgrim River	283	412	433	0	33	0	0	0	45	0	11	9	0	94	0	0	0	0	0	
Unalakleet River	796	1,549	3,606	415	2,030	0	2,946	211	2,241	152	104	0	7	0	8	1,692	0	0	1,327	
Fish-Niukluk River System	819	2,098	4,825	44	1,365	0	80	0	1,952	634	226	0	0	28	89	0	0	0	0	
Snake River	313	896	977	0	209	0	0	0	44	34	79	0	0	0	0	0	0	0	0	
Other Streams	903	1,334	2,286	94	863	0	0	0	1,305	326	34	0	0	233	0	0	0	0	0	
FRESHWATER TOTAL	2,540^e	7,382	13,590	553	4,719	0	3,026	211	6,378	1,146	454	9	7	355	97	1,692	0	0	1,327	
GRAND TOTAL	3,124^e	8,171	15,006	630	5,582	0	3,039	211	6,708	1,146	454	9	7	355	97	3,046	216	248	2,546	

^a 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.

^b Refer to Appendix A3 for common names and species abbreviations.

^c Arctic grayling 15 inches and under.

^d Arctic grayling over 15 inches.

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

Appendix A102.-Seward Peninsula-Norton Sound Drainages^a standard errors^b of sport fish harvest and effort by fisheries and species^c, 1999.

	Days		KS	SS	RS	PS	CS	DV										
	Trips	Fished						AC	GR ^d	GR ^e	WF	SF	NP	BB	SM	KC	HA	OTHER
SALTWATER:																		
Boat	92	193	55	403	0	13	0	334	0	0	0	0	0	0	1,371	0	85	1,057
Shoreline	197	318	15	93	0	0	0	0	0	0	0	0	0	0	0	211	28	72
SALTWATER TOTAL	215	366	57	413	0	13	0	334	0	0	0	0	0	0	1,371	211	90	1,058
FRESHWATER:																		
Nome River	359	437	0	122	0	0	0	297	0	0	0	0	0	0	0	0	0	0
Pilgrim River	141	145	0	32	0	0	0	31	0	11	8	0	88	0	0	0	0	0
Unalakleet River	506	1,331	158	562	0	2,784	147	936	115	63	0	7	0	8	1,384	0	0	1,375
Fish-Niukluk River System	822	1,658	31	506	0	82	0	799	272	100	0	0	21	78	0	0	0	0
Snake River	300	310	0	126	0	0	0	27	24	50	0	0	0	0	0	0	0	0
Other Streams	265	462	86	491	0	0	0	505	194	33	0	0	117	0	0	0	0	0
FRESHWATER TOTAL	1,116	2,284	186	912	0	2,784	147	1,401	359	136	8	7	152	78	1,384	0	0	1,375
GRAND TOTAL	1,138	2,321	194	997	0	2,785	147	1,419	359	136	8	7	152	78	1,876	211	90	1,713

^a 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.

^b 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.

^c Refer to Appendix A3 for common names and species abbreviations.

^d Arctic grayling 15 inches and under.

^e Arctic grayling over 15 inches.

Appendix A103-Northwest Alaska Drainages^a sport fish harvest and effort by fisheries and species^b, 1999.

	Anglers	Days								DV ^c		DV ^d							OTHER
		Trips	Fished	KS	SS	RS	PS	CS	LT	AC	AC	GR	WF	SF	NP	BB	SM		
SALTWATER:																			
Boat	39	57	62	0	0	0	0	0	0	0	0	0	27	14	0	0	0	0	
Shoreline	40	103	121	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SALTWATER TOTAL	70^e	160	183	0	0	0	0	0	0	0	0	0	27	14	0	0	0	0	0
FRESHWATER:																			
Kobuk River	443	655	1,960	0	0	0	0	78	0	0	28	619	357	621	6	15	0	49	
Noatak River	506	645	2,522	20	0	0	12	298	33	44	100	355	14	0	169	13	0	251	
Other Streams	424	845	1,869	0	0	0	0	16	0	236	366	207	0	0	18	0	0	0	
Lakes	151	126	237	0	0	0	0	0	68	22	0	66	0	0	0	0	0	0	
FRESHWATER TOTAL	1,266^e	2,271	6,588	20	0	0	12	392	101	302	494	1,247	371	621	193	28	0	300	
GRAND TOTAL	1,313^e	2,431	6,771	20	0	0	12	392	101	302	494	1,247	398	635	193	28	0	300	

^a 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.

^b Refer to Appendix A3 for common names and species abbreviations.

^c Dolly Varden and Arctic char 20 inches and under.

^d Dolly Varden and Arctic char over 20 inches.

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

Appendix A104.-Northwest Alaska Drainages^a standard errors^b of sport fish harvest and effort by fisheries and species^c, 1999.

	Days		KS	SS	RS	PS	CS	LT	DV ^d	DV ^e	GR	WF	SF	NP	BB	SM	OTHER
	Trips	Fished							AC	AC							
SALTWATER:																	
Boat	38	40	0	0	0	0	0	0	0	0	0	28	14	0	0	0	0
Shoreline	79	84	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SALTWATER TOTAL	86	92	0	0	0	0	0	0	0	0	0	28	14	0	0	0	0
FRESHWATER:																	
Kobuk River	189	802	0	0	0	0	50	0	0	22	291	363	240	6	16	0	28
Noatak River	247	809	19	0	0	12	166	25	28	54	130	14	0	80	13	0	253
Other Streams	212	451	0	0	0	0	15	0	102	115	95	0	0	17	0	0	0
Lakes	46	89	0	0	0	0	0	35	21	0	57	0	0	0	0	0	0
FRESHWATER TOTAL	377	1,279	19	0	0	12	172	43	108	131	336	363	240	81	20	0	255
GRAND TOTAL	390	1,286	19	0	0	12	172	43	108	131	336	363	241	81	20	0	255

^a 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.

^b 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.

^c Refer to Appendix A3 for common names and species abbreviations.

^d Dolly Varden and Arctic char 20 inches and under.

^e Dolly Varden and Arctic char over 20 inches.

Appendix A105.-Yukon River Drainages^a sport fish harvest and effort by fisheries and species^b, 1999.

	Anglers	Days		DV															
		Trips	Fished	KS	SS	RS	PS	CS	LT	AC	GR	WF	SF	NP	BB	SM	HA	OTHER	
SALTWATER:																			
Boat	75	128	130	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Shoreline	15	13	15	0	0	0	0	0	0	0	0	0	0	0	0	0	20	0	
SALTWATER TOTAL	90^c	141	145	0	0	0	0	0	0	0	0	0	0	0	0	0	20	0	
FRESHWATER:																			
Yukon River Drainages (downstream from Koyukuk River):																			
Innoko River	233	228	551	0	0	0	0	0	0	0	0	0	0	145	0	0	0	0	
Other Lakes and Streams	462	498	1,294	0	85	0	0	0	0	90	77	0	14	213	0	0	0	0	
Total Yukon River Drainages (downstream from Koyukuk River)	605^c	726	1,845	0	85	0	0	0	0	90	77	0	14	358	0	0	0	0	
Yukon River Drainages (Koyukuk River to Fort Yukon):																			
Koyukuk River Drainage (excluding Haul Road drainages or unspecified)	977	1,764	4,087	22	0	11	0	81	451	11	863	511	27	634	13	0	0	0	
Haul Road Lakes and Streams in Koyukuk Drainage	310	348	562	0	0	0	0	0	0	0	384	0	0	0	0	0	0	0	
Other Haul Road Lakes and Streams	15	13	15	0	0	0	0	0	0	0	113	0	0	0	0	0	0	0	
Nowitna River	217	296	862	0	0	0	0	0	0	0	79	0	23	286	0	0	0	0	
Dall River	434	242	687	0	0	0	0	0	0	0	0	0	0	862	33	0	0	0	
Beaver and Nome Creeks	404	382	966	0	0	0	0	0	0	0	311	0	14	16	0	0	0	0	
Other Lakes and Streams	812	521	1,302	0	0	0	0	0	94	23	335	0	28	234	46	0	0	0	
Total Yukon River Drainages (Koyukuk River to Fort Yukon)	2,968^c	3,566	8,481	22	0	11	0	81	545	34	2,085	511	92	2,032	92	0	0	0	
Yukon River Drainages (Fort Yukon to Canadian Border)																			
	644	814	1,903	0	0	0	0	0	0	0	833	0	27	19	0	0	0	0	
Other Streams	156	226	468	0	73	0	0	0	0	79	169	0	0	0	0	0	0	0	
Other Lakes	31	38	64	0	0	0	0	0	0	0	0	0	0	9	76	0	0	0	
FRESHWATER TOTAL	4,270^c	5,370	12,761	22	158	11	0	81	545	203	3,164	511	133	2,418	168	0	0	0	
GRAND TOTAL	4,285^c	5,511	12,906	22	158	11	0	81	545	203	3,164	511	133	2,418	168	0	20	0	

^a 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.

^b Refer to Appendix A3 for common names and species abbreviations.

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

Appendix A106.-Yukon River Drainages^a standard errors^b of sport fish harvest and effort by fisheries and species^c, 1999.

	Days		DV														
	Trips	Fished	KS	SS	RS	PS	CS	LT	AC	GR	WF	SF	NP	BB	SM	HA	OTHER
SALTWATER:																	
Boat	128	130	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Shoreline	13	15	0	0	0	0	0	0	0	0	0	0	0	0	0	20	0
SALTWATER TOTAL	128	130	0	0	0	0	0	0	0	0	0	0	0	0	0	20	0
FRESHWATER:																	
Yukon River Drainages (downstream from Koyukuk River):																	
Innoko River	133	209	0	0	0	0	0	0	0	0	0	0	93	0	0	0	0
Other Lakes and Streams	156	407	0	60	0	0	0	0	51	55	0	14	149	0	0	0	0
Total Yukon River Drainages (downstream from Koyukuk River)	202	459	0	60	0	0	0	0	51	55	0	14	175	0	0	0	0
Yukon River Drainages (Koyukuk River to Fort Yukon):																	
Koyukuk River Drainage (excluding Haul Road drainages or unspecified)	460	893	22	0	10	0	83	419	11	259	525	26	322	13	0	0	0
Haul Road Lakes and Streams in Koyukuk Drainage	97	159	0	0	0	0	0	0	0	171	0	0	0	0	0	0	0
Other Haul Road Lakes and Streams	13	15	0	0	0	0	0	0	0	116	0	0	0	0	0	0	0
Nowitna River	137	334	0	0	0	0	0	0	0	68	0	17	194	0	0	0	0
Dall River	66	184	0	0	0	0	0	0	0	0	0	0	332	20	0	0	0
Beaver and Nome Creeks	163	292	0	0	0	0	0	0	0	164	0	14	16	0	0	0	0
Other Lakes and Streams	95	270	0	0	0	0	0	53	22	133	0	19	123	46	0	0	0
Total Yukon River Drainages (Koyukuk River to Fort Yukon)	542	1,064	22	0	10	0	83	423	25	402	525	40	525	53	0	0	0
Yukon River Drainages (Fort Yukon to Canadian Border)																	
Other Streams	104	227	0	74	0	0	0	0	56	121	0	0	0	0	0	0	0
Other Lakes	28	47	0	0	0	0	0	0	0	0	0	0	10	78	0	0	0
FRESHWATER TOTAL	667	1,351	22	94	10	0	83	423	79	568	525	51	555	95	0	0	0
GRAND TOTAL	680	1,356	22	94	10	0	83	423	79	568	525	51	555	95	0	20	0

^a 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.

^b 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.

^c Refer to Appendix A3 for common names and species abbreviations.

Appendix A107.-North Slope Brooks Range Drainages^a sport fish harvest and effort by fisheries and species^b, 1999.

	Anglers	Days		DV										
		Trips	Fished	KS	PS	CS	LT	AC	GR	WF	NP	BB	SM	OTHER
SALTWATER:														
Shoreline	119	319	403	0	0	0	0	176	0	68	0	0	0	0
SALTWATER TOTAL	119 ^c	319	403	0	0	0	0	176	0	68	0	0	0	0
FRESHWATER:														
Sagavanirktok River	367	1,844	2,055	0	0	0	0	330	181	0	0	0	0	0
Other Haul Road Streams	171	203	316	0	0	0	0	11	184	0	0	0	0	0
Other Streams	475	751	1,862	0	0	0	0	389	751	0	0	0	0	0
Haul Road Lakes	54	74	102	0	0	0	0	0	0	0	0	0	0	0
Other Lakes	106	153	492	0	0	0	77	23	90	0	0	0	0	0
FRESHWATER TOTAL	1,014 ^c	3,025	4,827	0	0	0	77	753	1,206	0	0	0	0	0
GRAND TOTAL	1,044 ^c	3,344	5,230	0	0	0	77	929	1,206	68	0	0	0	0

^a 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.

^b Refer to Appendix A3 for common names and species abbreviations.

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

**Appendix A108.-North Slope Brooks Range Drainages^a standard errors^b
of sport fish harvest and effort by fisheries and species^c, 1999.**

	Days					DV								
	Trips	Fished	KS	PS	CS	LT	AC	GR	WF	NP	BB	SM	OTHER	
SALTWATER:														
Shoreline	136	168	0	0	0	0	120	0	73	0	0	0	0	
SALTWATER TOTAL	136	168	0	0	0	0	120	0	73	0	0	0	0	
FRESHWATER:														
Sagavanirktok River	758	787	0	0	0	0	227	130	0	0	0	0	0	
Other Haul Road Streams	80	130	0	0	0	0	11	95	0	0	0	0	0	
Other Streams	196	426	0	0	0	0	168	308	0	0	0	0	0	
Haul Road Lakes	38	50	0	0	0	0	0	0	0	0	0	0	0	
Other Lakes	83	275	0	0	0	54	22	86	0	0	0	0	0	
FRESHWATER TOTAL	836	1,034	0	0	0	54	295	362	0	0	0	0	0	
GRAND TOTAL	864	1,075	0	0	0	54	328	362	73	0	0	0	0	

^a 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.

^b 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.

^c Refer to Appendix A3 for common names and species abbreviations.

Appendix A109.-Comparison of 1999 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			
Ketchikan Marine Boat^{a,b}										
Chinook salmon over 28"	4,494	509	3,496	-	5,492	8,172	881	6,245	-	9,764
Chinook salmon under 28"	320	97	130	-	510	37	38	-	-	112
Coho salmon	20,719	2,335	16,142	-	25,296	55,691	3,717	47,094	-	61,564
Sockeye salmon	22	9	4	-	40	1,966	507	1,007	-	3,026
Pink salmon	21,460	2,972	15,635	-	27,285	34,969	3,323	28,740	-	41,577
Chum salmon	350	61	230	-	470	3,297	560	2,266	-	4,480
Halibut	5,126	525	4,097	-	6,155	11,419	942	9,494	-	13,130
Lingcod	296	55	188	-	404	1,712	256	1,119	-	2,056
Rockfish	3,282	347	2,602	-	3,962	12,049	1,290	8,490	-	13,407
Sitka Marine Boat^a										
Chinook salmon over 28"	20,741	1,442	17,915	-	23,567	24,495	1,489	22,381	-	28,278
Chinook salmon under 28"	63	31	2	-	124	309	187	44	-	720
Coho salmon	73,757	7,441	59,173	-	88,341	59,423	4,081	54,493	-	70,764
Sockeye salmon	5,013	1,070	2,916	-	7,110	5,344	1,141	3,852	-	8,259
Pink salmon	4,326	454	3,436	-	5,216	5,824	983	4,959	-	8,848
Chum salmon	538	156	232	-	844	1,544	370	962	-	2,370
Halibut	27,967	2,672	22,730	-	33,204	22,101	1,474	19,760	-	25,549
Lingcod	4,961	471	4,038	-	5,884	6,577	583	5,675	-	7,973
Rockfish	13,412	1,019	11,415	-	15,409	17,575	2,462	14,627	-	23,927
Juneau Marine Boat^a										
Chinook salmon over 28"	5,639	411	4,833	-	6,445	6,577	683	5,193	-	7,910
Chinook salmon under 28"	511	103	309	-	713	518	129	290	-	784
Coho salmon	26,604	2,654	21,402	-	31,806	24,596	1,930	20,693	-	28,249
Sockeye salmon	86	34	19	-	153	541	223	178	-	1,056
Pink salmon	7,193	753	5,717	-	8,669	7,739	1,111	5,626	-	9,800
Chum salmon	565	83	402	-	728	832	149	534	-	1,116
Halibut	8,105	808	6,521	-	9,689	6,278	616	4,833	-	7,235
Lingcod	86	37	13	-	159	342	154	103	-	685
Rockfish	1,056	171	721	-	1,391	2,484	441	1,664	-	3,365

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Appendix A109.-Page 2 of 2.

Fishery	Onsite Survey				Statewide Survey					
	Harvest Estimate	SE	95% CI		Harvest Estimate	SE	95% CI			
Situk River^c										
Chinook salmon 16" and over	1,046	155	742	-	1,350	1,160	224	752	-	1,617
Chinook salmon under 16"	299	71	160	-	438	385	139	148	-	683
Gastineau Hatchery Roadside^d										
Chinook Salmon	243	42	161	-	325	457	232	128	-	973
Coho Salmon	7,419	384	6,666	-	8,172	6,193	1,273	4,014	-	8,956
Chum Salmon	1,028	173	689	-	1,367	855	329	275	-	1,519
Pink Salmon	2,986	303	2,392	-	3,580	4,867	2,149	1,624	-	9,748
Kenai River - Cook Inlet to Soldotna Bridge										
Early Chinook salmon, guided ^e	4,541	369	3,818	-	5,264	2,327	215	1,929	-	2,784
Early Chinook salmon, nonguided ^e	993	136	726	-	1,260	2,405	207	1,990	-	2,833
Late Chinook salmon, guided ^e	7,605	682	6,268	-	8,942	4,145	268	3,681	-	4,702
Late Chinook salmon, nonguided ^e	4,422	679	3,091	-	5,753	4,105	284	3,566	-	4,673

a Hubartt, et al (2000).

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

c Bob Johnson, ADF&G, personal communication, 2000.

d Jaenicke, M. J. (2000)

e Larry Marsh, ADF&G, personal communication, 2000.

Appendix A110.-Number of households responding to the 1999 standard and supplementary sport fish surveys by fishery.

	Number of respondents		Total
	Standard	Supplementary	
Area A. Ketchikan Area			
SALTWATER:			
Boat - East, West Behm Canals	197	121	318
Boat - Clarence Strait	113	87	200
Boat - Revilla Channel	215	182	397
Boat - Tongass Narrows	65	45	110
Boat - Yes Bay	20	13	33
Boat - Bell Island	16	19	35
Boat - Other	26	100	126
Shoreline - Mountain Point	3	10	13
Shoreline - Other	16	20	36
FRESHWATER:			
Naha River	20	7	27
Ward Cove Creek	20	8	28
Ketchikan Creek	13	13	26
Other Streams	27	23	50
Ward Lake	13	9	22
Other Lakes	27	13	40
Area B. Prince of Wales Island Area			
SALTWATER:			
Boat - Thorne Bay	4	8	12
Boat - Waterfall Bay	43	46	89
Boat - Eastside Prince of Wales Island	86	68	154
Boat - Westside Prince of Wales Island	174	157	331
Boat - Other	10	50	60
Shoreline	10	18	28
FRESHWATER:			
Thorne System (Stream, Lake)	42	27	69
Sweetwater System (Stream, Lake)	14	9	23
Other Systems	10	6	16
Karta River	16	5	21
Klawock River	24	14	38
Staney Creek	24	14	38
Harris River	18	11	29
Other Streams	30	26	56
Other Lakes	15	10	25

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Appendix A110.-Page 2 of 12.

	Number of respondents		Total
	Standard	Supplementary	
Area C. Kake, Petersburg, Wrangell, Stikine Area			
SALTWATER:			
Boat - Terminal Harvest Area near Petersburg (in Wrangell)	29	28	57
Boat - Frederick Sound near Petersburg	71	50	121
Boat - Rest of Petersburg Area	27	21	48
Boat - Wrangell Area	56	45	101
Boat - Kake Area	17	11	28
Boat - Sumner Strait	3	10	13
Boat - Other	25	38	63
Shoreline - Petersburg Road System	7	5	12
Shoreline - Other	5	17	22
FRESHWATER:			
Blind Slough (in Wrangell Narrows)	27	24	51
Petersburg Creek	7	7	14
Stikine River	10	4	14
Other Streams	24	23	47
Lakes	8	8	16
Systems	6	0	6
Area D. Sitka Area			
SALTWATER:			
Boat - Crescent Bay (Sheldon Jackson Hatchery Area)	55	21	76
Boat - Starrigavan Bay	41	25	66
Boat - Silver Bay	25	33	58
Boat - Other Sitka Sound, incl. Vitskari Island	269	236	505
Boat - Salisbury Sound	76	57	133
Boat - Icy Straight	11	26	37
Boat - Hoonah Area	6	9	15
Boat - Chatham Strait	11	10	21
Boat - Cross Sound	12	17	29
Boat - Elfin Cove	12	19	31
Boat - Kruzof Island	28	25	53
Boat - Tenakee Inlet	11	15	26
Boat - Other	72	197	269
Shoreline - Crescent Bay (Sheldon Jackson Hatchery Area)	4	10	14
Shoreline - Starrigavan Bay	16	11	27
Shoreline - Other Sitka Sound	58	9	67
Shoreline - Other	28	15	43
FRESHWATER:			
Baranof System (Lake, Stream)	12	1	13
Sitkoh System (Lake, Stream)	10	11	21
Other Systems	5	5	10
Other Streams	29	30	59
Other Lakes	17	15	32

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Appendix A110.-Page 3 of 12.

	Number of respondents		Total
	Standard	Supplementary	
Area E. Juneau Area			
SALTWATER:			
Boat - Doty Cove to Berners Bay and west to Pt. Retreat	318	230	548
Boat - Angoon Area	47	27	74
Boat - Stephens Passage	16	29	45
Boat - Lynn Canal	15	35	50
Boat - Admiralty Island	10	16	26
Boat - Funter Bay	4	11	15
Boat - Other	57	175	232
Shoreline - Sheep Creek Area	19	11	30
Shoreline - Auke Creek Mouth	34	11	45
Shoreline - Gastineau Hatchery - DIPAC	65	61	126
Shoreline - Other Juneau Road System	78	43	121
Shoreline - Other	25	41	66
FRESHWATER:			
Fish Creek (Douglas Island)	25	15	40
Peterson Creek and Salt Chuck	11	4	15
Cowee Creek	15	16	31
Montana Creek	19	13	32
Other Juneau Road System	13	11	24
Twin Lakes	15	11	26
Other Streams	25	46	71
Other Lakes	19	7	26
Area F. Haines-Skagway Area			
SKAGWAY SUB-AREA			
SALTWATER:			
Boat	65	37	102
Shoreline	8	4	12
FRESHWATER:			
Streams	10	6	16
Lakes	8	2	10
HAINES SUB-AREA			
SALTWATER:			
Boat - Lynn Canal	11	25	36
Boat - Other	22	50	72
Shoreline	13	10	23
FRESHWATER:			
Chilkoot River	32	27	59
Chilkat River	29	20	49
Other Streams	1	5	6
Chilkoot Lake	20	21	41
Chilkat Lake	6	12	18
Other Lakes	1	5	6

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Appendix A110.-Page 4 of 12.

	Number of respondents		Total
	Standard	Supplementary	
Area G. Glacier Bay Area			
SALTWATER:			
Boat - Icy Straits	88	45	133
Boat - Glacier Bay	25	22	47
Boat - Excursion Inlet	35	15	50
Boat - Gustavus Area	32	18	50
Boat - Other	3	14	17
Shoreline	11	5	16
FRESHWATER:			
Streams	13	9	22
Area H. Yakutat Area			
SALTWATER:			
Boat - Yakutat Bay	84	63	147
Boat - Other	6	8	14
Shoreline - Yakutat Bay	14	4	18
Shoreline - Other	2	7	9
FRESHWATER:			
Situk River, above weir	93	62	155
Situk River, below weir	91	39	130
Tsiu River	19	10	29
East Alsek River	6	6	12
Lost River	38	23	61
Itallo River	12	10	22
Other Streams	15	15	30
Ankau System (River, Lagoons, Outlet)	14	9	23
Lakes	2	1	3
Area I. Upper Copper/Upper Susitna Drainages			
Gulkana River (Paxson to Sourdough)	101	57	158
Gulkana River (Sourdough to Highway)	116	81	197
Gulkana River Other	30	46	76
Klutina River	112	115	227
Tonsina River	7	5	12
Other Streams	52	60	112
Lake Louise	47	29	76
Susitna Lake	16	11	27
Van (Silver) Lake	10	13	23
Paxson Lake	49	26	75
Summit Lake (near Paxson)	22	8	30
Crosswind Lake	9	11	20
Other Lakes	51	59	110

-continued-

Appendix A110.-Page 5 of 12.

	Number of respondents		Total
	Standard	Supplementary	
Area J. Prince William Sound Area			
SALTWATER:			
Boat - Valdez Bay (including Port Valdez)	380	255	635
Boat - Passage Canal (Whittier)	95	46	141
Boat - Orca Inlet	47	47	94
Boat - Esther Island	27	25	52
Boat - Montague Island	23	60	83
Boat - Hinchinbrook Area	7	9	16
Boat - Other	65	136	201
Shoreline - Valdez Road System	125	25	150
Shoreline - Orca Inlet	25	12	37
Shoreline - Remainder of Valdez Arm	38	114	152
Shoreline - Other	29	25	54
FRESHWATER:			
Eyak River	32	18	50
Eshamy Lake, Creek, and Lagoon	4	2	6
Alaganik Slough	18	12	30
Clear Creek	16	13	29
Other Streams	33	37	70
Other Lakes	15	17	32
Area K. Knik Arm Drainage Area			
SALTWATER:			
Boat	5	2	7
Shoreline	2	0	2
FRESHWATER:			
Little Susitna River	288	208	496
Knik River and Tributaries, including Jim Creek	53	32	85
Wasilla Creek (Rabbit Slough)	15	4	19
Cottonwood Creek	26	23	49
Fish Creek (Big Lake Drainage)	14	4	18
Eklutna Power Plant Raceway	53	31	84
Other Streams	11	15	26
Wasilla Lake	14	8	22
Finger Lake	59	50	109
Kepler Lake Complex	69	52	121
Big Lake	61	42	103
Long Lake (Mile 85 Glenn Highway)	36	14	50
Cottonwood Lake	4	8	12
Flat Horn Lake	9	7	16
Figure Eight Lake	7	7	14
Knik Lake	4	9	13
Nancy Lake	22	16	38
South Rolly Lake	20	4	24
Nancy Lake Recreation Area, Other Fishing Sites	42	38	80
Other Lakes	94	107	201

-continued-

Appendix A110.-Page 6 of 12.

	Number of respondents		Total
	Standard	Supplementary	
Area L. Anchorage Area			
SALTWATER:			
Boat	4	0	4
Shoreline	32	8	40
FRESHWATER:			
Jewel Lake	74	47	121
Campbell Point Lake	17	10	27
Sand Lake	23	15	38
Lower Fire Lake	14	15	29
Mirror Lake	29	33	62
Otter Lake	40	28	68
Clunie Lake	33	22	55
Gwen Lake	24	11	35
Sixmile Lake	49	25	74
Green Lake	25	17	42
Hillberg Lake	21	15	36
Triangle Lake	16	9	25
C Street (Taku) Lake	31	18	49
Fish Lake	24	11	35
Cheney Lake	39	24	63
Beach Lake	33	22	55
DeLong Lake	40	19	59
Other Lakes	27	21	48
Ship Creek	371	246	617
Bird Creek	148	88	236
Campbell Creek	36	24	60
Twentymile River	39	27	66
Eagle River	34	12	46
Other Streams	23	22	45

-continued-

Appendix A110.-Page 7 of 12.

	Number of respondents		Total
	Standard	Supplementary	
Area M. East Susitna River Drainage			
Willow Creek	337	247	584
Caswell Creek	35	31	66
Montana Creek	245	192	437
Sunshine Creek	30	23	53
Talkeetna River and Tributaries, including Clear Creek	233	227	460
Sheep Creek	122	107	229
Little Willow Creek	77	80	157
Goose Creek	44	31	75
Birch Creek	16	13	29
Kashwitna River	19	7	26
Troublesome Creek	14	14	28
Susitna River	2	14	16
Other Streams	30	45	75
Lakes	42	20	62
Area N. West Cook Inlet-West Susitna River Drainages			
SALTWATER:			
Upper Cook Inlet (Boat Sites North of Chinitna Point)	23	15	38
Lower Cook Inlet (Boat Sites South of Chinitna Point)	17	7	24
Razor Clams: Polly Creek Beach/Crescent River Bar	15	10	25
Other Shoreline	4	8	12
FRESHWATER:			
Deshka River (Kroto Creek) above weir	58	36	94
Deshka River (Kroto Creek) below weir	121	129	250
Lake Creek	108	113	221
Fish Lake Creek and Fish Lakes (Yentna Drainage)	54	24	78
Alexander Creek/Lake	101	71	172
Talachulitna River	64	37	101
Chuitna River	35	27	62
Theodore River	8	4	12
Kustatan River	40	26	66
Peters Creek	7	10	17
Silver Salmon Creek	14	8	22
Yentna River	13	28	41
Susitna River	2	12	14
Other Sites - Susitna River Drainages	55	64	119
Other Sites - Susitna to North Forelands	23	20	43
Other Sites - South of North Forelands	30	25	55
Other Streams	3	17	20
Big River Lakes	17	14	31
Other Lakes	2	4	6

-continued-

Appendix A110.-Page 8 of 12.

	Number of respondents		Total
	Standard	Supplementary	
Area P. Kenai Peninsula Area			
KENAI RIVER FRESHWATER NONGUIDED:			
Kenai River - (Cook Inlet to Soldotna Bridge)	628	573	1,201
Kenai River - (Soldotna Bridge to Moose River)	377	314	691
Kenai River - (Moose River to Skilak Outlet)	189	173	362
Kenai River - (Skilak Inlet to Kenai Lake)	297	227	524
KENAI RIVER FRESHWATER GUIDED:			
Kenai River - (Cook Inlet to Soldotna Bridge)	361	356	717
Kenai River - (Soldotna Bridge to Moose River)	154	104	258
Kenai River - (Moose River to Skilak Outlet)	54	32	86
Kenai River - (Skilak Inlet to Kenai Lake)	69	67	136
OTHER FRESHWATER:			
Anchor River	192	149	341
Ninilchik River	167	106	273
Deep Creek	124	71	195
Resurrection Creek	23	24	47
Quartz Creek	49	36	85
Sixmile Creek Drainage	7	10	17
Russian River	586	539	1,125
Kasilof River - Nonguided Bank Fishing	298	182	480
Kasilof River - Nonguided Boat Fishing	61	55	116
Kasilof River - Guided Bank Fishing	32	8	40
Kasilof River - Guided Boat Fishing	131	116	247
Ptarmigan Creek	9	11	20
Other Streams	38	44	82
Swanson River	51	26	77
Swanson River Canoe Route Lakes	35	23	58
Swan Lake Canoe System	24	10	34
Hidden Lake	29	17	46
Crescent Lake	24	11	35
Skilak Lake	19	12	31
Tustumena Lake	11	10	21
Kenai Lake	3	10	13
Johnson Lake	14	10	24
Other Lakes	76	84	160
SALTWATER FINFISH CHARTER BOAT:			
Barren Islands	144	89	233
Resurrection Bay (Seward)	427	339	766
Anchor River, Whiskey Gulch, Deep Creek, and Ninilchik River	595	384	979
Other Cook Inlet North of Ninilchik River	9	20	29
Other Cook Inlet/Gulf Coast West of Gore Point	555	648	1,203
Other Gulf Coast East of Gore Point	12	17	29

-continued-

Appendix A110.-Page 9 of 12.

	Number of respondents		Total
	Standard	Supplementary	
Area P. Kenai Peninsula Area (continued)			
SALTWATER FINFISH PRIVATE BOAT:			
Barren Islands	17	16	33
Resurrection Bay (Seward)	247	313	560
Anchor River, Whiskey Gulch, Deep Creek, and Ninilchik River	259	309	568
Other Cook Inlet North of Ninilchik River	2	12	14
Other Cook Inlet/Gulf Coast West of Gore Point	344	367	711
Other Gulf Coast East of Gore Point	22	17	39
SALTWATER FINFISH SHORELINE:			
Homer Spit (Kachemak Bay)	213	133	346
Resurrection Bay (Seward)	171	105	276
Anchor River, Whiskey Gulch, Deep Creek, and Ninilchik River	2	27	29
Shoreline - Other	21	23	44
SALTWATER SHELLFISH:			
SHELLFISH BETWEEN KASILOF AND ANCHOR POINT:			
Anchor River to Deep Creek	88	49	137
Deep Creek to Set Net Access	154	140	294
Clam Gulch Beach (Set Net Access to Kasilof River)	169	232	401
OTHER SHELLFISH:			
Kachemak Bay (Homer)	66	91	157
Resurrection Bay (Seward)	9	2	11
Other Sites	2	1	3
Area Q. Kodiak Area			
SALTWATER:			
Boat - Chiniak Bay Area	118	80	198
Boat - Afognak Island Area	64	29	93
Boat - Uyak Bay	19	15	34
Boat - Other	47	80	127
Shoreline - Chiniak Bay Area	34	22	56
Shoreline - Afognak Island Area	20	4	24
Shoreline - Afognak Lagoon (Litnik)	7	8	15
Shoreline - Other	15	7	22
FRESHWATER:			
Buskin River	113	77	190
Pasagshak River	54	35	89
Karluk River and Lagoon	40	31	71
American River	54	41	95
Olds River (or Creek)	49	30	79
Red River (Ayakulik)	20	10	30
Saltery Cove Streams	23	24	47
Other Remote Streams	27	32	59
Other Road System Streams	12	23	35
Roadside Lakes	11	7	18
Other Lakes	7	5	12

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Appendix A110.-Page 10 of 12.

	Number of respondents		Total
	Standard	Supplementary	
Area R. Naknek River Drainage-Alaska Peninsula Area			
SALTWATER:			
Boat - Unalaska Bay	27	28	55
Boat - Other	19	23	42
Shoreline	6	9	15
FRESHWATER:			
Cold Bay Area (including Russel Creek)	8	8	16
Naknek River above Rapids Camp	46	32	78
Naknek River below Rapids Camp	74	48	122
Brooks River	20	24	44
American Creek	14	13	27
Unalaska Bay Streams	7	11	18
Other Streams	22	31	53
Ugashik System	22	19	41
Becharof System	16	3	19
Other Systems	3	3	6
Naknek Lake - Bay of Islands	9	4	13
Naknek Lake - Other	5	5	10
Other Lakes	11	7	18
Area S. Kvichak River Drainage Area			
SALTWATER:			
Boat	1	4	5
FRESHWATER:			
Kvichak River	53	36	89
Newhalen River	44	37	81
Alagnak (Branch) River	37	48	85
Copper River (tributary of Lake Iliamna)	41	23	64
Lower Talarik Creek	24	4	28
Kulik River	10	7	17
Moraine Creek	9	15	24
Tazimina River	8	4	12
Other Streams	22	36	58
Lake Iliamna	22	10	32
Lake Clark	25	13	38
Other Lakes	18	21	39
Area T. Nushagak Area			
SALTWATER:			
Boat	6	5	11
Shoreline	3	0	3
FRESHWATER:			
Nushagak River - Black Pt. to outlet of Iowithia R.	48	32	80
Nushagak River - Iowithia R. to outlet of Mulchatna R.	22	20	42
Nushagak River - upstream from mouth of Mulchatna R.	39	20	59
Other Nushagak System	13	29	42
Wood River Lakes System	56	50	106
Tikchik-Nuyakuk Lake System	21	21	42
Togiak River System	31	31	62
Mulchatna River	15	16	31
Chilikadrotna River	6	6	12
Other Streams	13	15	28
Other Lakes	6	3	9

-continued-

Appendix A110.-Page 11 of 12.

	Number of respondents		Total
	Standard	Supplementary	
Area U. Tanana River Drainages			
Upper Chena River	154	104	258
Lower Chena River	116	85	201
Piledriver Slough	56	42	98
Nenana River Drainage (excluding Brushkana Creek)	11	5	16
Lower Chatanika River & tributaries (downstream of Elliot Hwy)	32	35	67
Upper Chatanika River (upstream of Elliot Hwy)	40	31	71
Salcha River	60	53	113
Delta Clearwater River	44	29	73
Goodpaster River	9	10	19
Brushkana Creek	12	14	26
Lower Tanana River	5	1	6
Middle Tanana River	18	23	41
Upper Tanana River	10	6	16
Delta River (below Tangle Lakes)	7	7	14
Other Streams	37	52	89
Birch Lake	76	82	158
Quartz Lake	122	96	218
Fielding Lake	10	15	25
Minto Flats	22	26	48
Tangle Lakes and Tangle River	45	59	104
Chena Lake (Lake only)	43	50	93
Harding Lake	30	24	54
Dune Lake	12	13	25
George Lake	11	14	25
Bathing Beauty Pond	3	10	13
Steese Ponds	13	17	30
Chena Hot Springs Road Ponds	27	31	58
Coal Mine Road Lakes	11	8	19
Other Lakes	80	95	175
Area V. Kuskokwim-Goodnews Drainages			
SALTWATER:			
Boat	2	2	4
Shoreline	3	1	4
FRESHWATER:			
Kuskokwim-Goodnews Drainages above Aniak River			
Holitna River	13	8	21
Other Streams	4	5	9
Other Lakes	5	0	5
Kuskokwim-Goodnews Drainages below Aniak River			
Aniak River	17	18	35
Kanektok River	34	29	63
Goodnews River	31	30	61
Other Streams	16	12	28
Other Lakes	3	2	5
Kuskokwim-Goodnews Drainages Other Waters			
Other Streams	10	10	20
Other Lakes	3	3	6

-continued-

Appendix A110.-Page 12 of 12.

	Number of respondents		Total
	Standard	Supplementary	
Area W. Seward Peninsula-Norton Sound Drainages			
SALTWATER:			
Boat	15	2	17
Shoreline	10	3	13
FRESHWATER:			
Nome River	17	8	25
Pilgrim River	8	5	13
Unalakleet River	17	12	29
Fish-Niukluk River System	19	14	33
Snake River	10	5	15
Other Streams	11	25	36
Area X. Northwest Alaska Drainages			
SALTWATER:			
Boat	2	1	3
Shoreline	3	0	3
FRESHWATER:			
Kobuk River	10	12	22
Noatak River	16	7	23
Other Streams	10	10	20
Lakes	4	3	7
Area Y. Yukon River Drainages			
SALTWATER:			
Boat	1	0	1
Shoreline	1	0	1
FRESHWATER:			
Yukon River Drainages (downstream from Koyukuk River)			
Innoko River	4	5	9
Other Lakes and Streams	11	5	16
Yukon River Drainages (Koyukuk River to Fort Yukon)			
Koyukuk River Drainage (excluding Haul Road drainages or	25	26	51
Haul Road Lakes and Streams in Koyukuk Drainage	8	8	16
Other Haul Road Lakes and Streams	1	0	1
Nowitna River	9	4	13
Dall River	13	4	17
Beaver and Nome Creeks	9	5	14
Other Lakes and Streams	20	15	35
Yukon River Drainages (Fort Yukon to Canadian Border)			
Other Streams	3	6	9
Other Lakes	0	2	2
Area Z. North Slope Brooks Range Drainages			
SALTWATER:			
Shoreline	4	4	8
FRESHWATER:			
Sagavanirktok River	13	10	23
Other Haul Road Streams	6	4	10
Other Streams	16	10	26
Haul Road Lakes	3	1	4
Other Lakes	2	4	6

APPENDIX B. QUESTIONNAIRES AND REMINDERS

1999 Sport Fish Survey

If you have questions about this survey, please call (907) 267-2369, or email us at SFPUB@fishgame.state.ak.us.

Dear Alaska Angler:

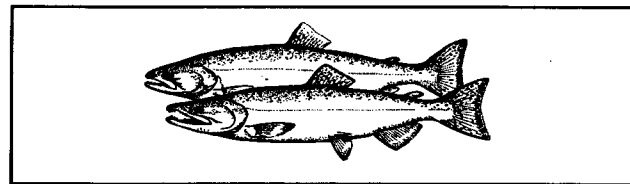
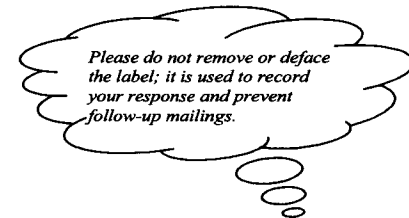
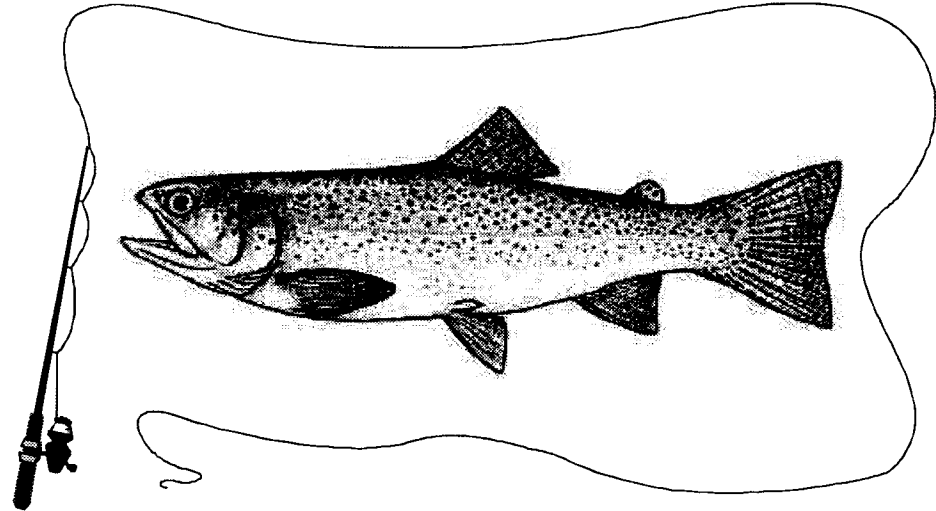
Alaska's sport fishery resources are attracting an ever-growing number of anglers. To help the Division of Sport Fish obtain the best possible information necessary to maintain and improve the quality of sport fishing in Alaska, the department conducts an annual survey of a representative sample of anglers who purchased a sport fishing license.

I would appreciate your taking a few minutes to answer the questions attached to this letter. Even if you did not fish in Alaska during 1999, your responses to the General Questions on page 3 are important. Please complete the enclosed questionnaire and return it in the postage-paid envelope that is provided for your use. Although there are quite a number of pages, the questions are straightforward and you need only respond to those pertaining to the areas of Alaska where you sport fished during the 1999 season. Be assured that your responses will be considered confidential.

This survey is a means by which you can participate in decisions concerning this state's fishery resources.

Sincerely,

Frank Rue
Commissioner



Please visit the Department's web site at: <http://www.state.ak.us/local/akpages/FISH.GAME/adfghome.htm>

Appendix B1.-Sport fish standard survey questionnaire, 1999.

INSTRUCTIONS:

Please help reduce costs: For statistical purposes we mail 2 reminders to those who do not respond. You can help reduce costs by replying promptly.

Period covered: January 1 through December 31, 1999.

Who to include: Report your household's sportfishing only. Do not include visiting friends or relatives, or other party members outside your household.

What if your household did not sport fish in 1999? Answer the questions on page 3 and return the survey in the postage-paid envelope so we may avoid mailing you additional 1999 surveys. **Thanks for your assistance!**

What if your household did sport fish in 1999? 1) Read all instructions on this page, 2) review the EXAMPLE below, 3) answer the questions on page 3, 4) refer to the map on page 3 and then complete the pages that cover the areas sport fished, and 5) return the survey in the postage-paid envelope. **Thanks for your assistance!**

What to include: Report all sportfishing, dipnet-caught salmon on dipnetting pages, dipnet-caught smelt in other sections, and shellfish where requested.

What to exclude: Do not report commercially-caught or subsistence-caught fish. A sportfishing guide should not report client information.

When to reply: Return this form after completing all 1999 sportfishing, including ice fishing. Most people do not ice fish, but if you do, please disregard any reminders received prior to completion of all 1999 sportfishing.

Still have questions? If you have questions about this survey, please call (907) 267-2369 or contact us via email at SFPUB@fishgame.state.ak.us

EXAMPLE: HOW TO RECORD YOUR HOUSEHOLD'S SPORT FISHING.

A man and a woman fished together on 3 trips to the Kenai River. They fished 1 day on each trip and caught a total of 4 silver salmon and kept all 4. The man fished alone for half a day on each of 2 other trips to the Kenai River, but caught nothing. Thus for the Kenai River: Anglers = 2, Trips = 5 (3 by the man and woman together, 2 by the man alone), Days Fished = 8 (5 by the man, 3 by the woman).

- ① Number of Household Anglers who fished. Do not include visiting friends, relatives, or other party members outside your household.
- ② Number of Household Trips (a Trip, which may last one or more days, is a visit to a fishing site).
- ③ Sum of Each Angler's Calendar Days Fished. Count any part of a day as one whole day. If two or more anglers fish the same day, include that day in each angler's sum. **Example:** If two household anglers fished the same day, No. Days Fished = 2.
- ④ For each type of fish, write the total number caught and the number kept by your household.

P ₄	No. of Household Anglers	No. of Household Trips	Sum of Each Angler's Calendar Days Fished	King Salmon prior to July 1		King Salmon after and incl. July 1		Silver Salmon prior to Sept. 1		Silver Salmon after and incl. Sept. 1		Red Salmon		Pink Salmon		Chum Salmon		Lake Trout		Dolly V. Arctic Char		Steel-head Trout		Rainbow Trout		Arctic Grayling		White-fish		Northern Pike		Smelt		Other (Specify)	
				C A U G H T	K E E P T	C A U G H T	K E E P T	C A U G H T	K E E P T	C A U G H T	K E E P T	C A U G H T	K E E P T	C A U G H T	K E E P T	C A U G H T	K E E P T	C A U G H T	K E E P T	C A U G H T	K E E P T	C A U G H T	K E E P T	C A U G H T	K E E P T	C A U G H T	K E E P T	C A U G H T	K E E P T	C A U G H T	K E E P T	C A U G H T	K E E P T		
Kenai and Kaslof Rivers Non-Guided	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	
FRESHWATER	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	
1. Kenai River - Cook Inlet to Soldotna Bridge	2	5	8					4	4																										
2. Kenai River - Soldotna Bridge to Moose River																																			

SPORT ANGLERS LIVING OUTSIDE OF THE UNITED STATES

The postage permit that we have for return mail is good only in the United States. However, it is very important that anglers who do not live in the United States return their survey to us. Therefore, we must ask that you supply your own postage in order to return the survey questionnaire. We hope you will consider this as an additional contribution towards sound management of Alaska's sport fisheries.

The Alaska Department of Fish and Game administers all programs and activities free from discrimination on the basis of sex, color, race, religion, national origin, age, marital status, pregnancy, parenthood, or disability. For information on alternative formats available for this and other department publications, contact the department ADA Coordinator at (voice) 907-465-4120, or (telecommunications device for the deaf) 1-800-478-3648.

GENERAL QUESTIONS: The questions below apply to members of your household and the **1999** sport fishing season.

1. Total number people in your household who sport fished in Alaska during 1999 _____?

NO LICENSE PURCHASED

1A. Number of persons under 16 years of age who sport fished in Alaska _____?

1B. Number of Alaska residents 60 years of age and older and number of Alaska resident disabled veterans who have a permanent identification card for Alaska sport fishing, including those who did not fish in Alaska _____?

1C. Number of persons recorded in 1B who did sport fish in Alaska _____?

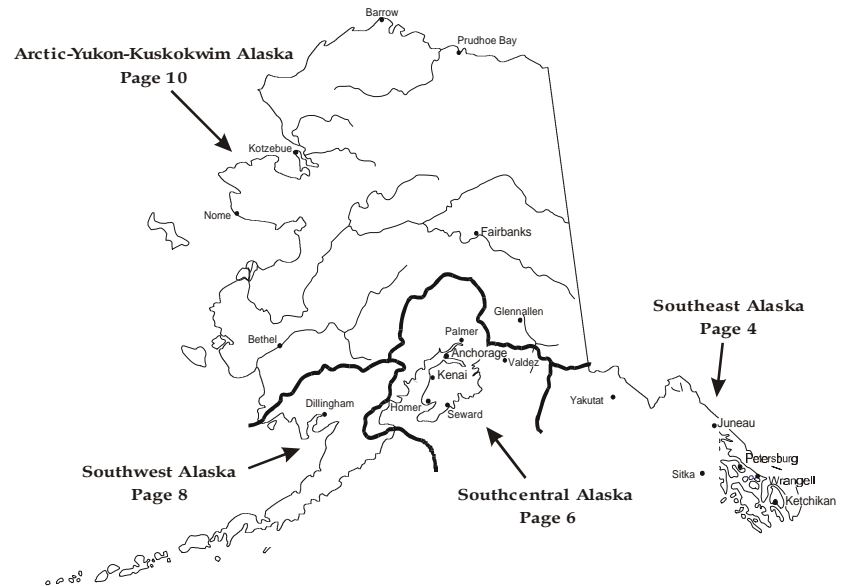
LICENSE PURCHASED

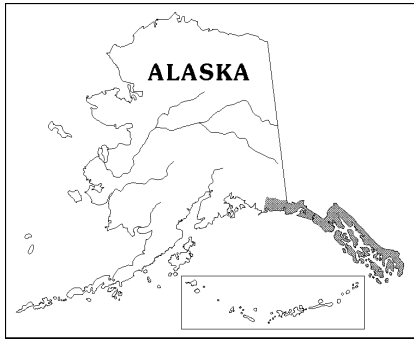
2A. Number of persons who purchased a sport fishing license, including those who did not fish in Alaska. (DO NOT include anyone recorded in 1A, 1B, or 1C above) _____?

2B. Number of persons recorded in 2A who did sport fish in Alaska _____?

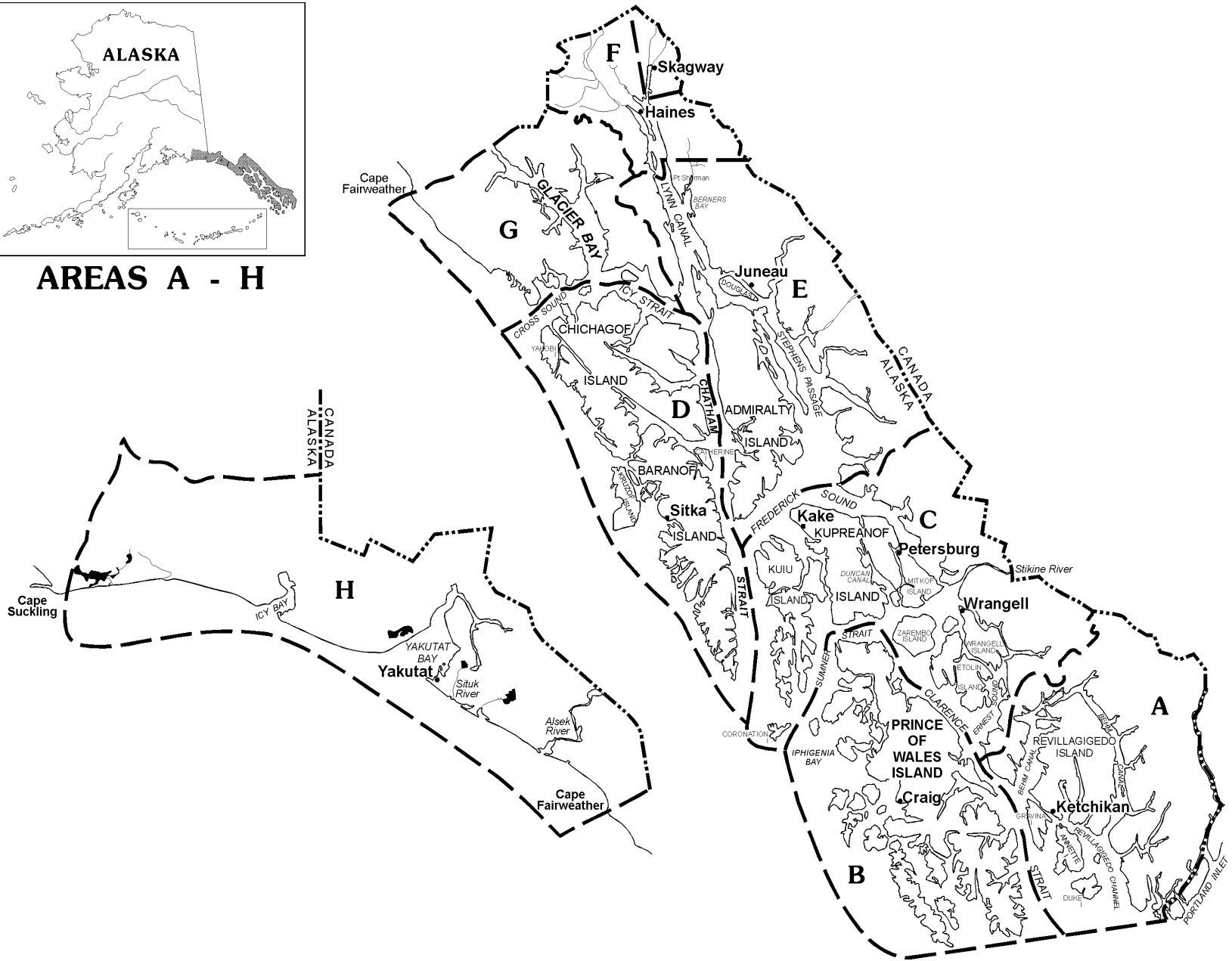
3. Please provide comments on sport fishing in Alaska during 1999 and your suggestions on how to improve it in the future.

Comments (enclose additional pages, if needed):





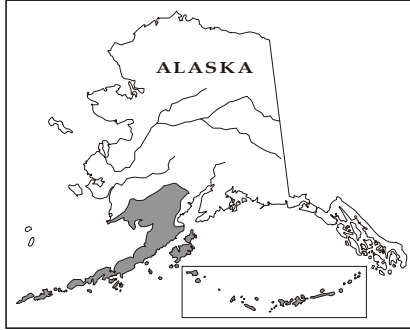
AREAS A - H



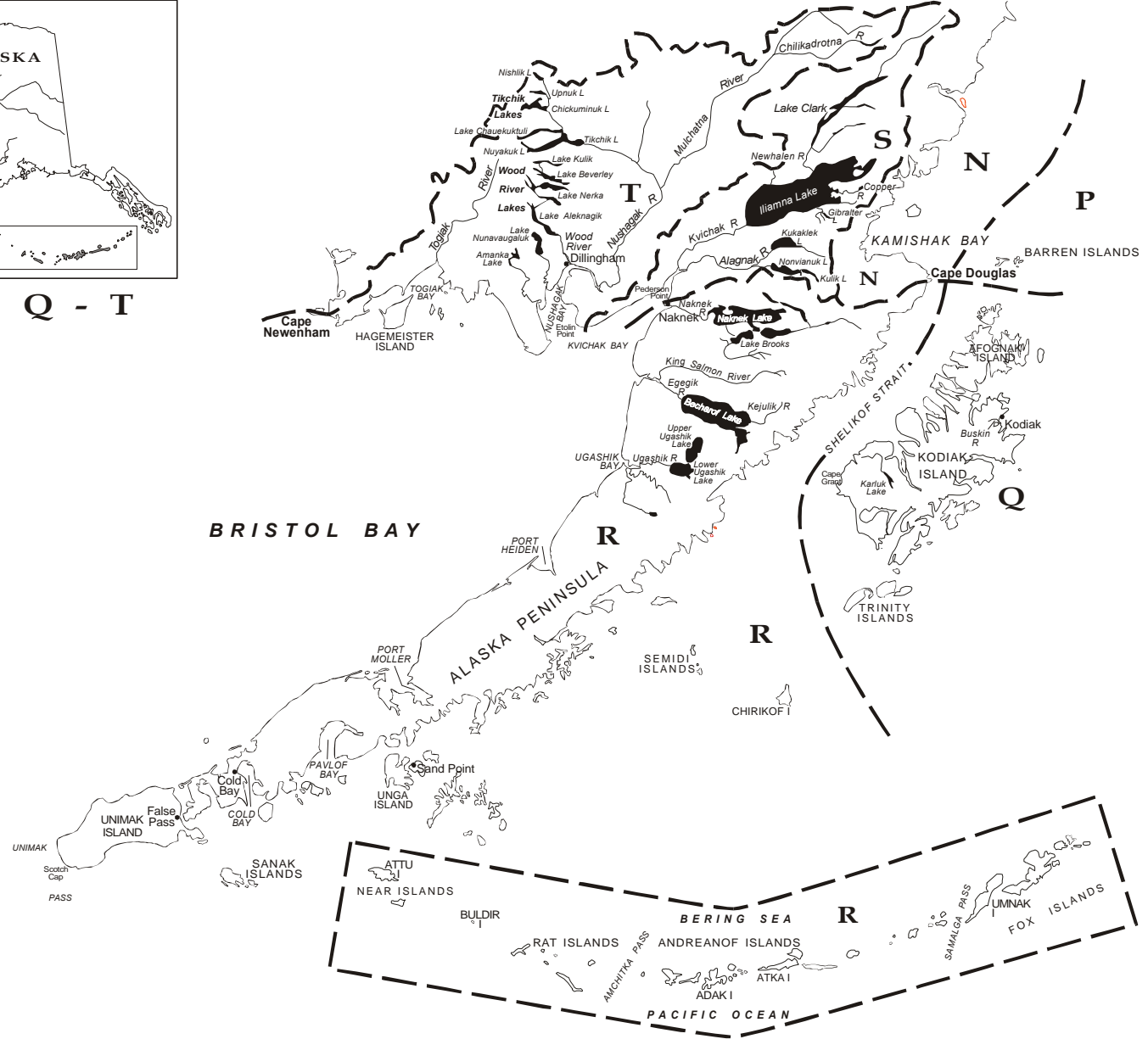
SOUTHEASTERN ALASKA SPORT FISH SURVEY AREAS		PAGE
A. KETCHIKAN AREA	All Alaska waters and drainages of the Unuk River and East Behm Canal south to the Proposed International Boundary line and east of a line bisecting Clarence Strait to the Canadian border. This area includes Duke, Annette, Revillagigedo, Gravina islands, and others. FISHING SITES: East and West Behm Canals, Clarence Strait, Revillagigedo Channel, Tongass Narrows, Yes Bay, Bell Island, Naha River, Ward Cove Creek, and others.	12
B. PRINCE OF WALES AREA	Alaska marine and fresh waters west of a line bisecting Clarence Strait and north of the Proposed International Boundary to a line bisecting Sumner Strait (including Forrester Island in the south and Warren Island in the north.) FISHING SITES: Karta and Klawock rivers, Nossuk and Shaheen creeks, Sweetwater-Thorne system, and others	13
C. KAKE, PETERSBURG, WRANGELL, STIKINE AREA	Alaska waters, including freshwater drainages, bounded by a line from Ernest Sound east through Bradfield Canal to the Canadian border and north along a line bisecting Clarence Strait to Sumner Strait, bisecting Sumner Strait and turning south to, and including, Coronation Island. This area is bounded on the north by a line from the Canadian border west through Cape Fanshaw and bisecting Frederick Sound before ending at the Sitka Borough boundary in Chatham Strait. The Sitka Borough boundary extended south to Coronation Island forms the western boundary; the Canadian border forms the eastern boundary. Islands in this area include, but are not limited to, Etolin, Deer, Onslow, Sumner, Wrangell, Zarembo, Kupreanof, Mitkof, Farm, Kuiu, and Coronation. FISHING SITES: Blind Slough/Wrangell Narrows, Duncan Saltchuck/Duncan Canal; Grays Pass; Castle River; Anan, Petersburg, and Kadake creeks; and others.	14
D. SITKA AREA	All Alaska marine and fresh waters within the Sitka Borough boundary and north to a line following the Glacier Bay National Monument boundary in Cross Sound and bisecting Icy Strait. Islands in this area include, but are not limited to, Baranof, Kruszof, Catherine, Chichagof, Inian, Lemesurier, and Yakobi. FISHING SITES: Starrigavan Bay, Goulding River and Lakes, Mud Bay Creek, Plotnikof/Rezanof system, Pavlov Harbor system, Lake Eva, and others.	15
E. JUNEAU AREA	All Alaska marine and fresh waters bounded on the south by a line from the Canadian border west through Cape Fanshaw to the Sitka Borough boundary in Chatham Strait; on the east by the Canadian border; on the north by the Haines Borough/Juneau City and Borough boundary from Mount Nesselrode (Boundary Peak 98) on the Canadian border, west to Eldred Rock Lighthouse, south through Lynn Canal to latitude of Point Sherman, west through Lynn Canal and ending at the western boundary of Glacier Bay National Monument north of the Endicott River watershed; and on the west by all east-side drainages of the Lynn Canal and a line bisecting Chatham Strait south from Pt. Couverden to Frederick Sound. This area includes all of Admiralty Island. FISHING SITES: Doty Cove to Berners Bay (including all Berners Bay rivers) and west to Point Retreat; Dupont to Echo Cove and Douglas Island; Mitchell Bay Salt Lagoon; Salmon Creek Reservoir; Hasselborg, Florence, Turner, and Peterson lakes; and others.	16
F. HAINES-SKAGWAY AREA	All Alaska marine and fresh waters north of the Haines Borough/Juneau City and Borough boundary from Mount Nesselrode (Boundary Peak 98) Canadian border, west to Eldred Rock Lighthouse, south through Lynn Canal to latitude of Point Sherman, west through Lynn Canal and ending at the western boundary of Glacier Bay National Monument north of the Endicott River watershed; and north and east of this National Monument boundary to the Canadian border. The area does not include Pt. Sherman. FISHING SITES: Chilkoot River, Chilkoot Lake, and others. SKAGWAY SUB-AREA: That portion of the Haines-Skagway Area north of a line from Taiya Point east to the Canadian border and north and east of the Ferebee River drainage (excludes Ferebee River). HAINES SUB-AREA: Remainder of Haines-Skagway Area.	17
G. GLACIER BAY AREA	All marine and fresh waters within the Glacier Bay National Monument boundaries, all east-side drainages of Excursion Inlet and Icy Strait to Pt. Couverden, and that area south of the monument and north of a line bisecting Icy Strait. This includes, but is not limited to, Rocky, Ansley, Entrance, Porpoise, and Pleasant Islands, The Sisters, and the town of Gustavus.	18
H. YAKUTAT AREA	All Gulf of Alaska drainages from Cape Fairweather north to, but not including, Cape Suckling. This area includes associated salt water and is bounded inland by the Canadian border and the Bagley Icefield. FISHING SITES: Situk River, Lost River, Ankau Lagoon, Tsiu River, Itallo River, Yakutat Bay, and others.	19



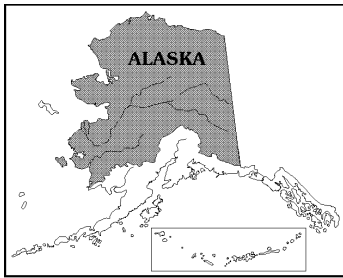
SOUTHCENTRAL ALASKA SPORT FISH SURVEY AREAS		PAGE
J. PRINCE WILLIAM SOUND AREA	All saltwater and freshwater drainages from Cape Suckling on the east through Prince William Sound to Cape Puget (including Cape Suckling, as well as waters emptying into Point Bainbridge). Also included is that portion of 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. FISHING SITES: Valdez Bay; Passage Canal (Whittier); Eshamy and Shrode creeks; Eyak, Coghill, and Pigot rivers; Eshamy and Shrode lakes; and others.	21
K. KNIK ARM DRAINAGE AREA	All watersheds of the Matanuska River, Knik River, and Little Susitna River, as well as east-side drainages of the Susitna River from Cook Inlet north to, but not including, the Willow Creek drainage. Also Knik Arm west of the Anchorage municipal boundary and its drainages, including the Nancy Lake Recreation Area. Includes fish caught from the east bank of this portion of the Susitna River. FISHING SITES: Little Susitna River; Fish Creek area; Wasilla, Cottonwood, and Jim creeks; Wasilla, Finger, Lucille, Nancy and Big lakes; Kepler Lake complex; Eklutna power plant raceway; and others.	22-23
L. ANCHORAGE AREA	All marine and fresh waters bounded by the Eklutna River drainage on the north, the Chugach Mountains on the east, Knik Arm on the west, and Turnagain Arm to Ingram Creek (including Portage Creek and Placer River) on the south. FISHING SITES: Ship, Bird, Campbell, Portage, and Ingram creeks; Portage, Twentymile and Eagle rivers; Jewel, Campbell Point, Sand, Lower Fire, Mirror, Otter, Clunie, Gwen, Sixmile, Green, Hillberg, Triangle, C Street, Beach, Fish, and Cheney lakes; and others.	24-25
M. EAST-SIDE SUSITNA DRAINAGE AREA	All drainages of the Susitna River from its confluence with the Oshetna River downstream to its confluence with the Chulitna River near Talkeetna and including the Oshetna River drainage; all east-side drainages of the Susitna River from Talkeetna to, and including, Willow and Deception creeks on the south; and all east-side drainages of the Middle Fork of the Chulitna River, from near Summit to near Talkeetna. This includes all fish caught while fishing from the east bank of the Susitna and Chulitna rivers from Willow Creek north to near Summit. FISHING SITES: Summit Lake, Broad Pass Lakes, and other small lakes in the Summit area; and Willow, Deception, Caswell, Montana, Sunshine, Clear (Chunilna), Sheep, and Little Willow creeks. (Does not include Little Susitna River, see pages 24-25, KNIK ARM DRAINAGE AREA.)	26
N. WEST-SIDE COOK INLET WEST-SIDE SUSITNA DRAINAGE AREA	All west-side drainages of the Susitna River, from its confluence with the Chulitna River near Talkeetna to Cook Inlet; all west-side drainages of the Chulitna River from Summit to its confluence with the Susitna, near Talkeetna; and all drainages emptying into Cook Inlet from the Susitna River to Cape Douglas and including Kamishak Bay and other associated salt water. This includes all fish caught while fishing from the west bank of the above river reaches. FISHING SITES: Dshka, Talachulitna, Chuitna, Theodore, and Lewis rivers; Alexander, Polly, and Lake creeks; Shell and Judd lakes; and others.	27
P. KENAI PENINSULA AREA	All fresh water and associated salt water of the Kenai Peninsula bounded on the north by Turnagain Arm and including the Granite Creek drainage; on the west by Cook Inlet and including Kalgin Island; and on the east by the Placer River drainage, Kenai Lake watershed, and waters flowing into the Gulf of Alaska west of Port Bainbridge (includes Resurrection Bay). FISHING SITES: Kenai, Anchor, Niniichik, Russian, and Kasilof rivers; Deep and Stariski creeks; Hidden Lake; Swanson River and Swan Lake Canoe systems; and others. (Includes the Barren Islands.)	28-31



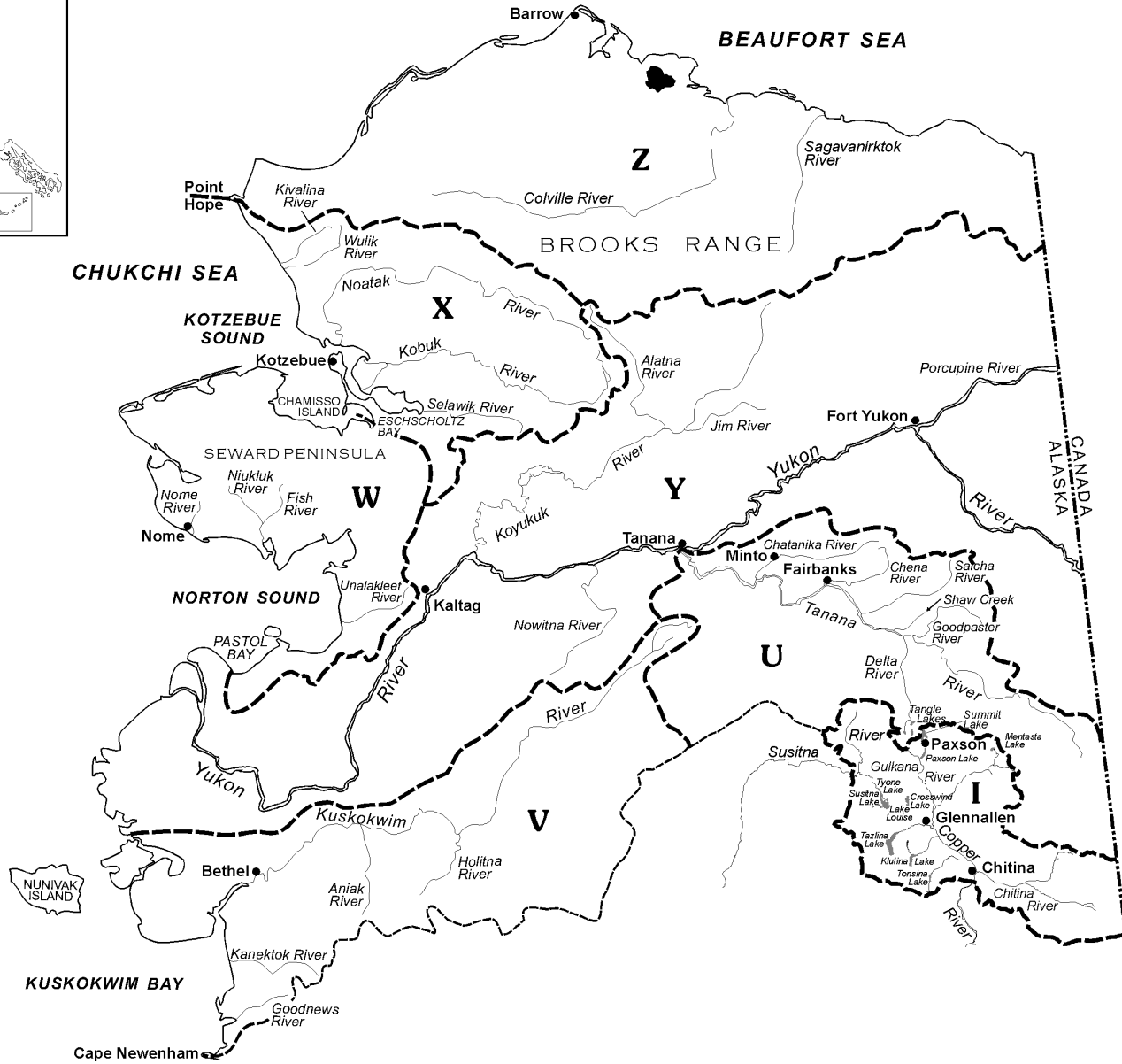
AREAS Q - T



	SOUTHWESTERN ALASKA SPORT FISH SURVEY AREAS	PAGE
Q. KODIAK AREA	All marine and fresh waters within the Kodiak Island Borough boundary. This includes Afognak Island in the north and the Trinity Islands in the south. FISHING SITES: Buskin and Pasagshak rivers; Karluk River, Lake and Lagoon; and others. (Does NOT include the Barren Islands, see pages 20-23, KENAI PENINSULA AREA).	32
R. NAKNEK DRAINAGES ALASKA PENINSULA AREA	All freshwater drainages of the Alaska Peninsula and the Aleutian Chain south of Cape Douglas and the Naknek watershed. Boundary waters are included as well as adjacent salt water and islands. FISHING SITES: Russel Creek (Cold Bay Area) Adak Island Area, Naknek River and Lake, Brooks River and Lake, Ugashik system, Becharof system, and other.	33
S. KVICHAK RIVER DRAINAGE AREA	All waters and tributaries of the Kvichak River watershed, including Nonvianuk Lake, Kukaklek Lake, Kulik Lake, Lake Iliamna, and Lake Clark. Also includes Kvichak Bay north of Naknek. FISHING SITES: Lower Talarik Creek; Copper, Newhalen, and Alagnak rivers; Gibraltar system; and others.	34
T. NUSHAGAK AREA	All waters and tributaries of the Nushagak River watershed, including the Mulchatna River drainage, the Wood River and Tikchik Lakes systems and waters westward to Cape Newenham. Includes adjacent salt water. FISHING SITES: Togiak River system, Chilikadrotna River, and others.	35



**AREAS I
&
U - Z**



ARCTIC-YUKON-KUSKOKWIM SPORT FISH SURVEY AREAS		PAGE
I. GLENNALLEN AREA	All waters and tributaries 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; also includes the upper Susitna River drainage from its confluence with the Oshetna River. Does not include the Oshetna River. FISHING SITES: Crosswind, Tyone, Van, Paxson, Summit, Strelna, Sculpin, Hudson, and Susitna lakes; Lake Louise; Gulkana River; and others (Does not include Tangle Lakes, see pages 36 and 37, TANANA RIVER AREA).	20
U. TANANA RIVER AREA	The Tanana River watershed. FISHING SITES: Chena, Chatanika, Salcha, Delta Clearwater, Richardson Clearwater, Goodpaster, and Delta rivers; Shaw Creek; Badger Slough; Birch, Quartz, George, Volkmar, Fielding, Tangle, and Chena lakes; Minto Flats; and others.	36-37
V. KUSKOKWIM RIVER AREA	The Kuskokwim River watershed. All waters flowing into Kuskokwim Bay; adjacent salt water from Cape Newenham north to the Naskonat Peninsula (north of Nelson Island), and Nunivak Island. This area does not include the Pastolik River, nor any portion of the Tanana River watershed or Yukon River watershed. FISHING SITES: Kanektok, Goodnews, Aniak, and Holitna rivers, and others.	38
W. SEWARD PENINSULA-NORTON SOUND AREA	All waters north of the Yukon River drainage, south of the Selawik River-Kotzebue Sound area, and west of the Yukon-Koyukuk river drainages. This area includes Pastol Bay and all salt water north and west of it in Norton Sound as well as salt water adjacent to the Seward Peninsula, including Spafarief Bay in Kotzebue Sound and the southern half of Eschschooltz Bay; and St. Lawrence Island. FISHING SITES: Unalakleet, Pilgrim, and Nome rivers; Fish-Niukluk river system; and others.	39
X. NORTHWEST ALASKA AREA	All waters and drainages of the Kotzebue area including drainages of the Selawik, Kobuk, Noatak, Wulik, and Kivalina rivers. All salt water in the northern half of Eschschooltz Bay, including Chamisso Island area, and the northern half of Kotzebue Sound to and including Point Hope.	40
Y. YUKON RIVER AREA	The Yukon River watershed. All drainages of the Yukon River (including the Alaska portion of the White River drainage in the Wrangell Mts.) from the south side of the Brooks Range to the Bering Sea, from Naskonat Peninsula north to Pastol Bay; from the Canadian border, including the Alaskan portion of the Fortymile and Sixtymile river drainages, west to the Bering Sea. This area excludes all portions of the Tanana and Kuskokwim river watersheds. FISHING SITES: Haul Road/Dalton Highway lakes and streams.	41
Z. NORTH SLOPE BROOKS RANGE AREA	All drainages north of the Brooks Range flowing into the Beaufort and Chukchi Seas, east of Point Hope and west of the Canadian border, including adjacent saltwater areas.	42

A. KETCHIKAN AREA (see map page 4 for area description). Please include **only** information for members of your household.

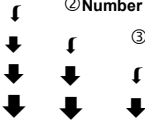
① **Number of Household Anglers** who fished. Do not include visiting friends, relatives, or other party members outside your household.

② **Number of Household Trips** (a Trip, which may last one or more days, is a visit to a fishing site).

③ **Sum of Each Angler's Calendar Days Fished.** Count any part of a day as one whole day. If two or more anglers fish the same day, include that day in each angler's sum.

Example: If two household anglers fished the same day, No. Days Fished = 2.

④ For each type of fish, write the total number caught and the number kept by your household.



A	No. of Household Anglers	No. of Household Trips	Sum of Each Angler's Calendar Days Fished	King Under 28"		King 28" and Over		Silver Salmon		Red Salmon		Pink Salmon		Chum Salmon		Dolly Varden		Steel-head Trout		Rainbow Trout		Cut-throat Trout		Brook Trout		Arctic Grayling		Smelt		Halibut		Rockfish see pg 44		Lingcod see pg 44		Other (Specify)				
				C A U G H T	K E E P T	C A U G H T	K E E P T	C A U G H T	K E E P T	C A U G H T	K E E P T	C A U G H T	K E E P T	C A U G H T	K E E P T	C A U G H T	K E E P T	C A U G H T	K E E P T	C A U G H T	K E E P T	C A U G H T	K E E P T	C A U G H T	K E E P T	C A U G H T	K E E P T	C A U G H T	K E E P T	C A U G H T	K E E P T	C A U G H T	K E E P T	C A U G H T	K E E P T					
SALTWATER	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★		
1. Boat - East, West, Behm Canals																																								
2. Boat - Clarence Strait																																								
3. Boat - Revillagigedo ("Revilla") Channel																																								
4. Boat - Tongass Narrows																																								
5. Boat - Yes Bay																																								
6. Boat - Bell Island																																								
728. Boat - Mountain Point																																								
730. Boat - Carroll Inlet																																								
7. Other Boat Sites (Specify):																																								
8. Other Shoreline Sites (Specify):																																								
FRESHWATER	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	
10. Ward Cove Creek																																								
9. Naha River																																								
214. Ketchikan Creek																																								
165. Reflection Lake																																								
180. Ward Lake																																								
200. McDonald Lake Drainage (Incl. lake)																																								
134. Humpback Creek																																								
111. Other Streams (Specify):																																								
112. Other Lakes (Specify):																																								

B. PRINCE OF WALES AREA (see map page 4 for area description). Please include **only** information for members of your household.

- ① **Number of Household Anglers** who fished. Do not include visiting friends, relatives, or other party members outside your household.
- ② **Number of Household Trips** (a Trip, which may last one or more days, is a visit to a fishing site).
- ③ **Sum of Each Angler's Calendar Days Fished.** Count any part of a day as one whole day. If two or more anglers fish the same day, include that day in each angler's sum.
Example: If two household anglers fished the same day, No. Days Fished = 2.
- ④ For each type of fish, write the total number caught and the number kept by your household.

B	No. of Household Anglers	No. of Household Trips	Sum of Each Angler's Calendar Days Fished	King Under 28"		King 28" and Over		Silver Salmon		Red Salmon		Pink Salmon		Chum Salmon		Dolly Varden		Steelhead Trout		Rainbow Trout		Cutthroat Trout		Arctic Grayling		Smelt		Halibut		Rockfish see pg 44		Lingcod see pg 44		Other (Specify)			
				C A U G H T	K E E P T	C A U G H T	K E E P T	C A U G H T	K E E P T	C A U G H T	K E E P T	C A U G H T	K E E P T	C A U G H T	K E E P T	C A U G H T	K E E P T	C A U G H T	K E E P T	C A U G H T	K E E P T	C A U G H T	K E E P T	C A U G H T	K E E P T	C A U G H T	K E E P T	C A U G H T	K E E P T	C A U G H T	K E E P T	C A U G H T	K E E P T	C A U G H T	K E E P T		
SALTWATER	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	
736. Boat-Waterfall Bay																																					
1008. Boat-Eastside Prince of Wales Island																																					
1010. Boat-Westside Prince of Wales Island																																					
1. Other Boat Sites (Specify):																																					
2. Other Shoreline Sites (Specify):																																					
FRESHWATER	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	
217. Thorne System (Stream, Lake)																																					
218. Sweetwater System (Stream, Lake)																																					
219. Kegan System (Stream, Lake)																																					
220. Sarkar System (Stream, Lake)																																					
3. Karta River																																					
5. Klawock River																																					
120. Eagle Creek																																					
124. Harris River																																					
158. Staney Creek																																					
115. Black Bear Creek																																					
191. Salmon Bay Creek																																					
216. Big ("108") Creek																																					
108. Other Streams (Specify):																																					
109. Other Lakes (Specify):																																					

C. KAKE, PETERSBURG, WRANGELL, STIKINE AREA (see map page 4 for area description). Please include **only** information for members of your household.

① **Number of Household Anglers** who fished. Do not include visiting friends, relatives, or other party members outside your household.

② **Number of Household Trips** (a Trip, which may last one or more days, is a visit to a fishing site).

③ **Sum of Each Angler's Calendar Days Fished.** Count any part of a day as one whole day. If two or more anglers fish the same day, include that day in each angler's sum.

Example: If two household anglers fished the same day, No. Days Fished = 2.

④ For each type of fish, write the total number caught and the number kept by your household.

C Sport Fishing	No. of Household Anglers	No. of Household Trips	Sum of Each Angler's Calendar Days Fished	King Under 28"		King 28" and Over		Silver Salmon		Red Salmon		Pink Salmon		Chum Salmon		Dolly Varden		Steelhead Trout		Rainbow Trout		Cutthroat Trout		Brook Trout		Arctic Grayling		Smelt		Halibut		Rockfish see pg 44		Lingcod see pg 44		Other (Specify)				
				C	A	C	A	C	A	C	A	C	A	C	A	C	A	C	A	C	A	C	A	C	A	C	A	C	A	C	A	C	A	C	A	C	A	C	A	
				U	G	H	T	U	G	H	T	U	G	H	T	U	G	H	T	U	G	H	T	U	G	H	T	U	G	H	T	U	G	H	T	U	G	H	T	U
SALTWATER	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	
728. Boat-Frederick Sound near Petersburg																																								
1. Boat-Terminal Harvest Area near Petersburg (in Wrangell Narrows)																																								
906. Boat-Rest of Petersburg Area																																								
908. Boat-Wrangell Area																																								
910. Boat-Earl West Cove																																								
776. Boat-Kake Area																																								
907. Shoreline-Petersburg Road System																																								
909. Shoreline-Wrangell Road System																																								
4. Other Boat Sites (Specify):																																								
7. Other Shoreline Sites (Specify):																																								
FRESHWATER	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	
5. Blind Slough (in Wrangell Narrows)																																								
8. Castle River																																								
9. Anan Creek																																								
10. Petersburg Creek																																								
175. Stikine River																																								
202. Pat's Lake (Trout Lake)																																								
216. Thoms Creek & Lake																																								
112. Other Streams (Specify):																																								
113. Other Lakes (Specify):																																								

D. SITKA AREA (see map page 4 for area description). Please include **only** information for members of your household.

① **Number of Household Anglers** who fished. Do not include visiting friends, relatives, or other party members outside your household.

② **Number of Household Trips** (a Trip, which may last one or more days, is a visit to a fishing site).

③ **Sum of Each Angler's Calendar Days Fished.** Count any part of a day as one whole day. If two or more anglers fish the same day, include that day in each angler's sum.

Example: If two household anglers fished the same day, No. Days Fished = 2.

④ For each type of fish, write the total number caught and the number kept by your household.

D	No. of Household Anglers	No. of Household Trips	Sum of Each Angler's Calendar Days Fished	King Under 28"		King 28" and Over		Silver Salmon		Red Salmon		Pink Salmon		Chum Salmon		Dolly Varden		Steelhead Trout		Rainbow Trout		Cutthroat Trout		Brook Trout		Arctic Grayling		Smelt		Halibut		Rockfish see pg 44		Lingcod see pg 44		Razor Clams		Other (Specify)				
				C A U G H T	K E P T	C A U G H T	K E P T	C A U G H T	K E P T	C A U G H T	K E P T	C A U G H T	K E P T	C A U G H T	K E P T	C A U G H T	K E P T	C A U G H T	K E P T	C A U G H T	K E P T	C A U G H T	K E P T	C A U G H T	K E P T	C A U G H T	K E P T	C A U G H T	K E P T	C A U G H T	K E P T	C A U G H T	K E P T	C A U G H T	K E P T	C A U G H T	K E P T					
SALTWATER	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★		
786. Boat-Crescent Bay (Sheldon Jackson Hatchery Area)																																										
11. Boat-Starrigavan Bay																																										
13. Boat-Silver Bay																																										
724. Boat-Other Sitka Sound including Vitskari Is.																																										
766. Boat-Salisbury Sound																																										
787. Shoreline-Crescent Bay (Sheldon Jackson Hatchery Area)																																										
12. Shoreline-Starrigavan Bay																																										
731. Shoreline-Silver Bay																																										
725. Shoreline-Other Sitka Sound																																										
1. Other Boat Sites (Specify):																																										
2. Other Shoreline Sites (Specify):																																										
FRESHWATER	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	
3. Plotnikof and Rezanof System (Lake, Stream)																																										
8. Eva Lake System (Lake, Stream)																																										
14. Sitkoh System (Lake, Stream)																																										
148. Salmon Lake																																										
186. Baranof System (Lake, Stream)																																										
107. Other Streams (Specify):																																										
110. Other Lakes (Specify):																																										

F. HAINES-SKAGWAY AREA (see map page 4 for area description). Please include **only** information for members of your household.

SKAGWAY SUB-AREA F1: That portion of the Haines-Skagway Area north of a line from Taiya Point east to the Canadian border and north and east of the Ferebee River drainage (excludes Ferebee River).

- ① Number of Household Anglers who fished. Do not include visiting friends, relatives, or other party members outside your household.
- ② Number of Household Trips (a Trip, which may last one or more days, is a visit to a fishing site).
- ③ Sum of Each Angler's Calendar Days Fished. Count any part of a day as one whole day. If two or more anglers fish the same day, include that day in each angler's sum.
Example: If two household anglers fished the same day, No. Days Fished = 2.
- ④ For each type of fish, write the total number caught and the number kept by your household.

F ₁	No. of Household Anglers	No. of Household Trips	Sum of Each Angler's Calendar Days Fished	King Under 28"		King 28" and Over		Silver Salmon		Red Salmon		Pink Salmon		Chum Salmon		Dolly Varden		Steel-head Trout		Rainbow Trout		Cut-throat Trout		Brook Trout		Arctic Grayling		Smelt		Halibut		Rockfish see pg 44		Lingcod see pg 44		Other (Specify)		
				C A U G H T	K E E P T	C A U G H T	K E E P T	C A U G H T	K E E P T	C A U G H T	K E E P T	C A U G H T	K E E P T	C A U G H T	K E E P T	C A U G H T	K E E P T	C A U G H T	K E E P T	C A U G H T	K E E P T	C A U G H T	K E E P T	C A U G H T	K E E P T	C A U G H T	K E E P T	C A U G H T	K E E P T	C A U G H T	K E E P T	C A U G H T	K E E P T	C A U G H T	K E E P T			
SALTWATER	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	
1. Boat Sites (Specify):																																						
2. Shoreline Sites (Specify):																																						
FRESHWATER	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	
108. Streams (Specify):																																						
109. Lakes (Specify):																																						

HAINES SUB-AREA F2: Remainder of the Haines-Skagway Area.

F ₂	No. of Household Anglers	No. of Household Trips	Sum of Each Angler's Calendar Days Fished	King Under 28"		King 28" and Over		Silver Salmon		Red Salmon		Pink Salmon		Chum Salmon		Dolly Varden		Steel-head Trout		Rainbow Trout		Cut-throat Trout		Brook Trout		Arctic Grayling		Smelt		Halibut		Rockfish see pg 44		Lingcod see pg 44		Other (Specify)		
				C A U G H T	K E E P T	C A U G H T	K E E P T	C A U G H T	K E E P T	C A U G H T	K E E P T	C A U G H T	K E E P T	C A U G H T	K E E P T	C A U G H T	K E E P T	C A U G H T	K E E P T	C A U G H T	K E E P T	C A U G H T	K E E P T	C A U G H T	K E E P T	C A U G H T	K E E P T	C A U G H T	K E E P T	C A U G H T	K E E P T	C A U G H T	K E E P T	C A U G H T	K E E P T			
SALTWATER	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	
1. Boat Sites (Specify):																																						
2. Shoreline Sites (Specify):																																						
FRESHWATER	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★
5. Chilkoot Lake																																						
3. Chilkoot River																																						
130. Chilkat Lake																																						
135. Chilkat River (13-15 Mile Haines Hwy.)																																						
136. Chilkat River (Kelsall Landing Area)																																						
107. Remainder of Chilkat River																																						
108. Other Streams (Specify):																																						
109. Other Lakes (Specify):																																						

G. GLACIER BAY AREA (see map page 4 for area description). Please include **only** information for members of your household.

- ① **Number of Household Anglers** who fished. Do not include visiting friends, relatives, or other party members outside your household.
- ② **Number of Household Trips** (a Trip, which may last one or more days, is a visit to a fishing site).
- ③ **Sum of Each Angler's Calendar Days Fished**. Count any part of a day as one whole day. If two or more anglers fish the same day, include that day in each angler's sum.
Example: If two household anglers fished the same day, No. Days Fished = 2.
- ④ For each type of fish, write the total number caught and the number kept by your household.

G	No. of Household Anglers	No. of Household Trips	Sum of Each Angler's Calendar Days Fished	King Under 28"		King 28" and Over		Silver Salmon		Red Salmon		Pink Salmon		Chum Salmon		Dolly Varden		Steelhead Trout		Rainbow Trout		Cutthroat Trout		Smelt		Halibut		Rockfish see pg 44		Lingcod see pg 44		Other (Specify)		
				C A U G H T	K E E P T	C A U G H T	K E E P T	C A U G H T	K E E P T	C A U G H T	K E E P T	C A U G H T	K E E P T	C A U G H T	K E E P T	C A U G H T	K E E P T	C A U G H T	K E E P T	C A U G H T	K E E P T	C A U G H T	K E E P T	C A U G H T	K E E P T	C A U G H T	K E E P T	C A U G H T	K E E P T	C A U G H T	K E E P T			
SALTWATER	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	
728. Boat-Icy Straits																																		
736. Boat-Glacier Bay																																		
730. Boat-Excursion Inlet																																		
740. Boat-Gustavus Area																																		
741. Shoreline-Gustavus Area																																		
1. Other Boat Sites (Specify):																																		
FRESHWATER	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	
110. Salmon River																																		
105. Bartlett River																																		
103. Other Streams (Specify):																																		
104. Lakes (Specify):																																		

H. YAKUTAT AREA (see map page 4 for area description). Please include **only** information for members of your household.

- ① **Number of Household Anglers** who fished. Do not include visiting friends, relatives, or other party members outside your household.
- ② **Number of Household Trips** (a Trip, which may last one or more days, is a visit to a fishing site).
- ③ **Sum of Each Angler's Calendar Days Fished**. Count any part of a day as one whole day. If two or more anglers fish the same day, include that day in each angler's sum.
Example: If two household anglers fished the same day, No. Days Fished = 2.
- ④ For each type of fish, write the total number caught and the number kept by your household.

H	No. of Household Anglers	No. of Household Trips	Sum of Each Angler's Calendar Days Fished	Small King Salmon*		Large King Salmon*		Silver Salmon		Red Salmon		Pink Salmon		Chum Salmon		Dolly Varden		Steel-head Trout		Rainbow Trout		Cut-throat Trout		Arctic Grayling		Northern Pike		Smelt		Halibut		Rockfish see pg 44		Lingcod see pg 44		Other (Specify)					
				C	K	C	K	C	K	C	K	C	K	C	K	C	K	C	K	C	K	C	K	C	K	C	K	C	K	C	K	C	K	C	K	C	K	C	K		
				A	U	G	H	T	A	U	G	H	T	A	U	G	H	T	A	U	G	H	T	A	U	G	H	T	A	U	G	H	T	A	U	G	H	T	A	U	G
SALTWATER	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★		
724. Boat-Yakutat Bay																																									
725. Shoreline-Yakutat Bay																																									
1. Other Boat Sites (Specify):																																									
2. Other Shoreline Sites (Specify):																																									
FRESHWATER	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	
148. Situk River, above weir**																																									
149. Situk River, below weir**																																									
120. Lost River																																									
136. Ankau system (River, Lagoons, Outlet)																																									
134. Tsiu River																																									
135. East Alsek River																																									
117. Italo River																																									
104. Other Streams (Specify):																																									
105. Other Lakes (Specify):																																									

*Saltwater: "Large" King Salmon are 28 inches and over; "Small" King Salmon are under 28 inches; Freshwater: "Large" King Salmon are 16 inches and over; "Small" King Salmon are under 16 inches.

**The Situk River weir is located near the river mouth approximately 1.5 miles above the Situk Landing.

I. GLENNALLEN AREA (see map page 10 for area description). Please include **only** information for members of your household.

① **Number of Household Anglers** who fished. Do **not** include visiting friends, relatives, or other party members outside your household.

② **Number of Household Trips** (a Trip, which may last one or more days, is a visit to a fishing site).

③ **Sum of Each Angler's Calendar Days Fished.** Count any part of a day as one whole day. If two or more anglers fish the same day, include that day in each angler's sum.

Example: If two household anglers fished the same day, No. Days Fished = 2.

④ For each type of fish, write the total number caught and the number kept by your household.

I	No. of Household Anglers	No. of Household Trips	Sum of Each Angler's Calendar Days Fished	Sea-run King Salmon		Sea-run Silver Salmon		Land-locked Kings, Silvers		Red Salmon		Lake Trout		Dolly V. Arctic Char		Steel-head Trout		Rainbow Trout		Arctic Grayling		Whitefish		Burbot		Other (Specify)	
				C A U G H T	K E E P T	C A U G H T	K E E P T	C A U G H T	K E E P T	C A U G H T	K E E P T	C A U G H T	K E E P T	C A U G H T	K E E P T	C A U G H T	K E E P T	C A U G H T	K E E P T	C A U G H T	K E E P T	C A U G H T	K E E P T	C A U G H T	K E E P T	C A U G H T	K E E P T
Sport Fishing	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★
FRESHWATER	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★
1. Gulkana River (Paxson to Sourdough)																											
15. Gulkana River (Sourdough to Hwy.)																											
2. Gulkana River Other Fishing																											
416. Klutina River																											
212. Mendeltna Creek																											
287. Tonsina River																											
295. Tyone Creek																											
398. Tolsona Lake																											
10. Lake Louise*																											
11. Susitna Lake																											
12. Tyone Lake																											
4. Van (Silver) Lake																											
13. Paxson Lake																											
14. Summit Lake (near Paxson)																											
8. Crosswind Lake																											
110. Other Streams (Specify):																											
111. Other Lakes (Specify):																											

*Mile 160 Glenn Highway at the end of Lake Louise Road.

1a. Please write the number of anglers, number of trips, and number of days fished on all trips for your household's DIPNET fishing. Do NOT include any fishwheel information.

2a. For each variety of fish, write the total number taken by DIPNET by your household.

I ₁	No. of Household Anglers	No. of Household Trips	Sum of Each Angler's Calendar Days Fished	Sea-run King Salmon	Sea-run Silver Salmon	Red Salmon	Other (Specify)
				Kept	Kept	Kept	Kept
DIPNETTING							
Freshwater Finfish							
DIPNET FISHERIES	★	★	★	★	★	★	★
9010. Copper River Dipnet (near Chitina)							

K. KNIK ARM DRAINAGE AREA - Page 1 of 2 (see map page 6 for area description). Please include **only** information for members of your household.

- ① Number of Household Anglers who fished. Do not include visiting friends, relatives, or other party members outside your household.
- ② Number of Household Trips (a Trip, which may last one or more days, is a visit to a fishing site).
- ③ Sum of Each Angler's Calendar Days Fished. Count any part of a day as one whole day. If two or more anglers fish the same day, include that day in each angler's sum.
Example: If two household anglers fished the same day, No. Days Fished = 2.
- ④ For each type of fish, write the total number caught and the number kept by your household.

K	No. of Household Anglers	No. of Household Trips	Sum of Each Angler's Calendar Days Fished	Sea-run King Salmon		Sea-run Silver Salmon		Land-locked Kings, Silvers		Red Salmon		Pink Salmon		Chum Salmon		Lake Trout		Dolly V. Arctic Char		Rainbow Trout		Arctic Grayling		Whitefish		Northern Pike		Burbot		Smelt		Lingcod see pg 44		Other (Specify)	
				CAUGHT	KEPT	CAUGHT	KEPT	CAUGHT	KEPT	CAUGHT	KEPT	CAUGHT	KEPT	CAUGHT	KEPT	CAUGHT	KEPT	CAUGHT	KEPT	CAUGHT	KEPT	CAUGHT	KEPT	CAUGHT	KEPT	CAUGHT	KEPT	CAUGHT	KEPT	CAUGHT	KEPT	CAUGHT	KEPT		
SALTWATER	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	
1. Boat - Fish Creek Area (NOT dipnetting)																																			
2. Other Boat Sites (Specify):																																			
3. Shoreline Sites (Specify):																																			
FRESHWATER	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	
234. Fish Creek, Big Lake Drainage (NOT dipnetting)																																			
4. Little Susitna River																																			
5. Knik River & Tributaries, including Jim Creek																																			
6. Wasilla Creek (Rabbit Slough)																																			
7. Cottonwood Creek																																			
14. Eklutna Power Plant Raceway																																			
159. Meadow Creek, (Big Lake Drainage)																																			
221. Long Lake (Mi. 85 Glenn Hwy)																																			

- ① Number of Household Anglers who fished. Do not include visiting friends, relatives, or other party members outside your household.
- ② Number of Household Trips (a Trip, which may last one or more days, is a visit to a fishing site).
- ③ Sum of Each Angler's Calendar Days Fished. Count any part of a day as one whole day. If two or more anglers fish the same day, include that day in each angler's sum.
Example: If two household anglers fished the same day, No. Days Fished = 2.
- ④ For each type of fish, write the total number kept by your household.

K ₁	No. of Household Anglers	No. of Household Trips	Sum of Each Angler's Calendar Days Fished	Sea-run Silver Salmon		Red Salmon		Pink Salmon		Chum Salmon		Other (Specify)	
DIPNETTING Finfish				Kept	Kept	Kept	Kept	Kept	Kept				
DIPNET FISHERIES	★	★	★	★	★	★	★	★	★	★	★	★	★
9000. Fish Creek, Big Lake Drainage													

Please note: "K FRESHWATER" is continued on the next page.

K. KNIK ARM DRAINAGE AREA - Page 2 of 2 (see map page 6 for area description). Please include **only** information for members of your household.

- ① **Number of Household Anglers** who fished. Do not include visiting friends, relatives, or other party members outside your household.
- ② **Number of Household Trips** (a Trip, which may last one or more days, is a visit to a fishing site).
- ③ **Sum of Each Angler's Calendar Days Fished**. Count any part of a day as one whole day. If two or more anglers fish the same day, include that day in each angler's sum.
Example: If two household anglers fished the same day, No. Days Fished = 2.
- ④ For each type of fish, write the total number caught and the number kept by your household.

K	No. of Household Anglers	No. of Household Trips	Sum of Each Angler's Calendar Days Fished	Sea-run King Salmon		Sea-run Silver Salmon		Land-locked Kings, Silvers		Red Salmon		Pink Salmon		Chum Salmon		Lake Trout		Dolly V. Arctic Char		Rainbow Trout		Arctic Grayling		Whitefish		Northern Pike		Burbot		Smelt		Other (Specify)			
				C	K	C	K	C	K	C	K	C	K	C	K	C	K	C	K	C	K	C	K	C	K	C	K	C	K	C	K	C	K		
				A	E	A	E	A	E	A	E	A	E	A	E	A	E	A	E	A	E	A	E	A	E	A	E	A	E	A	E	A	E	A	E
Sport Fishing	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★			
FRESHWATER (Cont.)	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★			
10. Kepler Lake Complex* (Specify):																																			
8. Wasilla Lake																																			
9. Finger Lake																																			
11. Lucille Lake																																			
12. Big Lake																																			
221. Long Lake (Mile 85 Glenn Hwy.)																																			
114. Other Streams (Specify):																																			
115. Other Lakes (Specify):																																			
NANCY LAKE RECREATION AREA FISHING SITES				•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	
13. Nancy Lake																																			
241. South Rolly Lake																																			
242. Little Noluck Lake																																			
243. Big Noluck Lake																																			
244. Other Fishing Sites (within recreation area)																																			

*Kepler Complex=Bradley, Canoe, Echo, Irene, Kepler, Klaire, Matanuska, Silver, Victor Lakes, and Long Lake (catch and release).

L. ANCHORAGE AREA - Page 1 of 2 (see map page 6 for area description). Please include **only** information for members of your household.

① **Number of Household Anglers** who fished. Do not include visiting friends, relatives, or other party members outside your household.

② **Number of Household Trips** (a Trip, which may last one or more days, is a visit to a fishing site).

③ **Sum of Each Angler's Calendar Days Fished.** Count any part of a day as one whole day. If two or more anglers fish the same day, include that day in each angler's sum.

Example: If two household anglers fished the same day, No. Days Fished = 2.

④ For each type of fish, write the total number caught and the number kept by your household.

L	No. of Household Anglers	No. of Household Trips	Sum of Each Angler's Calendar Days Fished	Sea-run King Salmon		Sea-run Silver Salmon		Land-locked Kings, Silvers		Red Salmon		Pink Salmon		Chum Salmon		Dolly V. Arctic Char		Rainbow Trout		Arctic Grayling		Whitefish		Smelt		Lingcod see pg 44		Other (Specify)			
				C	A	C	A	C	A	C	A	C	A	C	A	C	A	C	A	C	A	C	A	C	A	C	A	C	A	C	A
				U	G	U	G	U	G	U	G	U	G	U	G	U	G	U	G	U	G	U	G	U	G	U	G	U	G	U	G
Sport Fishing				★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★		
SALTWATER	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★		
1. Boat Sites (Specify):																															
2. Shoreline Sites (Specify):																															
FRESHWATER	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★		
Anchorage Area Lakes			•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•		
3. Jewel Lake																															
4. Campbell Point Lake																															
5. Sand Lake																															
20. C Street Lake (Taku-Campbell Lake)																															
23. Cheney Lake																															
138. Delong Lake																															
Elmendorf Airforce Base Lakes			•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•		
22. Fish Lake																															
11. Sixmile Lake																															
12. Green Lake																															
13. Hillberg Lake																															
19. Triangle Lake																															

Please note: "L FRESHWATER" is continued on the next page.

L. ANCHORAGE AREA - Page 2 of 2 (see map page 6 for area description). Please include **only** information for members of your household.

- ↓ ① **Number of Household Anglers** who fished. Do not include visiting friends, relatives, or other party members outside your household.
- ↓ ② **Number of Household Trips** (a Trip, which may last one or more days, is a visit to a fishing site).
- ↓ ③ **Sum of Each Angler's Calendar Days Fished**. Count any part of a day as one whole day. If two or more anglers fish the same day, include that day in each angler's sum.
Example: If two household anglers fished the same day, No. Days Fished = 2.
- ↓ ④ For each type of fish, write the total number caught and the number kept by your household.

L	No. of Household Anglers	No. of Household Trips	Sum of Each Angler's Calendar Days Fished	Sea-run King Salmon	Sea-run Silver Salmon	Land-locked Kings, Silvers	Red Salmon	Pink Salmon	Chum Salmon	Dolly V. Arctic Char	Rainbow Trout	Arctic Grayling	Whitefish	Smelt	Other (Specify)				
				C A U G H T	K E P T	C A U G H T	K E P T	C A U G H T	K E P T	C A U G H T	K E P T	C A U G H T	K E P T	C A U G H T	K E P T	C A U G H T	K E P T	C A U G H T	K E P T
				★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★
FRESHWATER(Cont.)	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★			
FORT RICHARDSON LAKES		•	•	•	•	•	•	•	•	•	•	•	•	•	•	•			
8. Otter Lake																			
9. Clunie Lake																			
10. Gwen Lake																			
OTHER ANCHORAGE AREA LAKES			•	•	•	•	•	•	•	•	•	•	•	•	•	•			
6. Lower Fire Lake																			
7. Mirror Lake																			
21. Beach Lake																			
124. Other Lakes (Specify):																			
ANCHORAGE AREA CREEKS AND RIVERS				•	•	•	•	•	•	•	•	•	•	•	•	•			
14. Ship Creek																			
15. Bird Creek																			
16. Campbell Creek																			
17. Twentymile River																			
218. Ingram Creek																			
18. Eagle River																			
125. Other Streams (Specify):																			

M. EAST SIDE SUSITNA DRAINAGE AREA (see map page 6 for area description). Please include **only** information for members of your household.

- ① **Number of Household Anglers** who fished. Do not include visiting friends, relatives, or other party members outside your household.
- ② **Number of Household Trips** (a Trip, which may last one or more days, is a visit to a fishing site).
- ③ **Sum of Each Angler's Calendar Days Fished**. Count any part of a day as one whole day. If two or more anglers fish the same day, include that day in each angler's sum.
Example: If two household anglers fished the same day, No. Days Fished = 2.
- ④ For each type of fish, write the total number caught and the number kept by your household.

M	No. of Household Anglers	No. of Household Trips	Sum of Each Angler's Calendar Days Fished	King Salmon		Sea-run Silver Salmon		Land-locked Kings, Silvers		Red Salmon		Pink Salmon		Chum Salmon		Lake Trout		Dolly V. Arctic Char		Rainbow Trout		Arctic Grayling		White-fish		Northern Pike		Burbot		Other (Specify)			
				C	K	C	K	C	K	C	K	C	K	C	K	C	K	C	K	C	K	C	K	C	K	C	K	C	K	C	K	C	K
				A	U	A	U	A	U	A	U	A	U	A	U	A	U	A	U	A	U	A	U	A	U	A	U	A	U	A	U	A	U
Sport Fishing				★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★		
FRESHWATER	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★		
143. Kashwitna River																																	
4. Willow Creek																																	
5. Caswell Creek																																	
6. Montana Creek																																	
7. Sunshine Creek																																	
181. Troublesome Creek																																	
169. Talkeetna River & tribs., including Clear Creek																																	
9. Sheep Creek																																	
10. Little Willow Creek																																	
138. Goose Creek																																	
117. Birch Creek																																	
112. Other Streams (Specify):																																	
111. Lakes (Specify):																																	

N. WEST SIDE COOK INLET - WEST SIDE SUSITNA DRAINAGE AREA (see map page 6 for area description). Please include **only** information for members of your household.

- ① **Number of Household Anglers** who fished. Do not include visiting friends, relatives, or other party members outside your household.
- ② **Number of Household Trips** (a Trip, which may last one or more days, is a visit to a fishing site).
- ③ **Sum of Each Angler's Calendar Days Fished**. Count any part of a day as one whole day. If two or more anglers fish the same day, include that day in each angler's sum.
Example: If two household anglers fished the same day, No. Days Fished = 2.
- ④ For each type of fish, write the total number caught and the number kept by your household.

N	No. of Household Anglers	No. of Household Trips	Sum of Each Angler's Calendar Days Fished	King Salmon		Silver Salmon		Red Salmon		Pink Salmon		Chum Salmon		Lake Trout		Dolly V. Arctic Char		Rainbow Trout		Arctic Grayling		Whitefish		Northern Pike		Burbot		Smelt		Halibut		Lingcod see pg 44		Razor Clams		Other (Specify)			
				C A U G H T	K E E P T	C A U G H T	K E E P T	C A U G H T	K E E P T	C A U G H T	K E E P T	C A U G H T	K E E P T	C A U G H T	K E E P T	C A U G H T	K E E P T	C A U G H T	K E E P T	C A U G H T	K E E P T	C A U G H T	K E E P T	C A U G H T	K E E P T	C A U G H T	K E E P T	C A U G H T	K E E P T	C A U G H T	K E E P T	C A U G H T	K E E P T	C A U G H T	K E E P T				
SALTWATER	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★		
966. Boat Sites North of Chinitna Point (Specify):																																							
946. Boat Sites South of Chinitna Point (Specify):																																							
2. Shoreline Sites (Specify):																																							
16. Razor Clams: Polly Creek Beach/Crescent River Bar																																							
FRESHWATER	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★		
SUSITNA RIVER DRAINAGE FISHING SITES				•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•		
347. Deshka River (Kroto Creek) above weir*																																							
348. Deshka River (Kroto Creek) below weir*																																							
4. Lake Creek																																							
171. Fish Lake Creek & Fish Lakes (Yentna Drainage)																																							
5. Alexander Creek/Lake																																							
7. Talachulitna River																																							
262. Trapper Lake																																							
331. Other Sites (Specify):																																							
SUSITNA TO NORTH FORELANDS FISHING SITES				•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	
8. Chuitna River																																							
10. Lewis River																																							
9. Theodore River																																							
332. Other Sites (Specify):																																							
SOUTH OF NORTH FORELANDS FISHING SITES				•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	
186. Kustatan River																																							
237. Silver Salmon Creek																																							
6. Polly Creek																																							
333. Other Sites (Specify):																																							

*The weir is located at river mile 7 approximately 1 mile upstream from Lobs Homestead and 16 miles downstream of Neil Lake.

P. KENAI PENINSULA AREA - PAGE 2 OF 4 (see map page 6 for area description). Please include **only** information for members of your household.

- ① **Number of Household Anglers** who fished. Do not include visiting friends, relatives, or other party members outside your household.
- ② **Number of Household Trips** (a Trip, which may last one or more days, is a visit to a fishing site).
- ③ **Sum of Each Angler's Calendar Days Fished**. Count any part of a day as one whole day. If two or more anglers fish the same day, include that day in each angler's sum.
Example: If two household anglers fished the same day, No. Days Fished = 2.
- ④ For each type of fish, write the total number caught and the number kept by your household.

P ₀	No. of Household Anglers	No. of Household Trips	Sum of Each Angler's Calendar Days Fished	Sea-run King Salmon		Sea-run Silver Salmon		Land-locked Kings, Silvers		Red Salmon Prior to and incl July 15		Red Salmon after July 15		Red Salmon	Pink Salmon	Chum Salmon	Lake Trout	Dolly V. Arctic Char	Steel-head Trout	Rainbow Trout	Arctic Grayling	White-fish	Northern Pike	Burbot	Smelt	Other (Specify)		
				C A U G H T	K E E P T	C A U G H T	K E E P T	C A U G H T	K E E P T	C A U G H T	K E E P T	C A U G H T	K E E P T													C A U G H T	K E E P T	C A U G H T
Other Freshwater Guided & Nonguided																												
FRESHWATER	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★
5. Anchor River																												
8. Stariski Creek																												
7. Deep Creek																												
6. Ninilchik River																												
244. Tustumena Lake																												
334. Swanson River																												
14. Swanson River Canoe Route Lakes																												
15. Swan Lake Canoe System																												
228. Skilak Lake																												
12. Hidden Lake																												
9. Russian River*																												
218. Quartz Creek																												
147. Crescent Lake																												
261. Resurrection Creek (near Hope)																												
226. Sixmile Creek Drainage**																												
111. Other Streams (Specify):																												
114. Other Lakes (Specify):																												

*Include all fishing in the 1,800 yard section of the Kenai River immediately downstream from the Russian River.
 **Including Sixmile, Granite, East Fork, and Canyon Creeks.

Please note: "P" is continued on the next page.

P. KENAI PENINSULA AREA - PAGE 3 OF 4 (see map page 6 for area description). Please include **only** information for members of your household.

- ① **Number of Household Anglers** who fished. Do not include visiting friends, relatives, or other party members outside your household.
- ② **Number of Household Trips** (a Trip, which may last one or more days, is a visit to a fishing site).
- ③ **Sum of Each Angler's Calendar Days Fished**. Count any part of a day as one whole day. If two or more anglers fish the same day, include that day in each angler's sum.
Example: If two household anglers fished the same day, No. Days Fished = 2.
- ④ For each type of fish, write the total number caught and the number kept by your household.

P _{1,6}	No. of Household Anglers	No. of Household Trips	Sum of Each Angler's Calendar Days Fished	King Salmon prior to and incl. June 24		King Salmon after June 24		Silver Salmon		Red Salmon		Pink Salmon		Chum Salmon		Dolly V. Arctic Char		Steel-head Trout		Smelt		Halibut		Shark		Rockfish see pg 44		Lingcod see pg 44		Pacific Cod see pg 44		Other Finfish (Specify)					
				C A U G H T	K E E P T	C A U G H T	K E E P T	C A U G H T	K E E P T	C A U G H T	K E E P T	C A U G H T	K E E P T	C A U G H T	K E E P T	C A U G H T	K E E P T	C A U G H T	K E E P T	C A U G H T	K E E P T	C A U G H T	K E E P T	C A U G H T	K E E P T	C A U G H T	K E E P T	C A U G H T	K E E P T	C A U G H T	K E E P T						
Saltwater Finfish																																					
CHARTER BOAT P6	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★			
920. Anchor River, Whiskey Gulch, Deep Creek, and Ninilchik River areas																																					
738. Tutka Bay																																					
734. Halibut Cove Lagoon																																					
003. Other Kachemak Bay																																					
966. Barren Islands																																					
952. Other Cook Inlet/Gulf Coast West of Gore Pt. (Specify):																																					
002. Resurrection Bay (Seward)																																					
954. Other Gulf Coast East of Gore Pt. (Specify):																																					
PRIVATE BOAT P1	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★		
920. Anchor River, Whiskey Gulch, Deep Creek, and Ninilchik River area																																					
738. Tutka Bay																																					
734. Halibut Cove Lagoon																																					
822. Homer Spit (fishing near the spit)																																					
003. Other Kachemak Bay																																					
966. Barren Islands																																					
952. Other Cook Inlet/Gulf Coast West of Gore Pt. (Specify):																																					
002. Resurrection Bay (Seward)																																					
954. Other Gulf Coast East of Gore Pt. (Specify):																																					
SALTWATER SHORELINE P1	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	
823. Homer Spit																																					
739. Tutka Bay																																					
793. Resurrection Bay (Seward)																																					
005. Other Shoreline Fishing Sites (Specify):																																					

Please note: "P" is continued on the next page.

P. KENAI PENINSULA AREA - PAGE 4 OF 4 (see map page 6 for area description). Please include **only** information for members of your household.

DIPNET/GILLNET ↓ ①Number of Household Anglers who fished. Do not include visiting friends, relatives, or other party members outside your household.
 ↓ ↓ ②Number of Household Trips (a Trip, which may last one or more days, is a visit to a fishing site).
 ↓ ↓ ↓ ③Sum of Each Angler's Calendar Days Fished. Count any part of a day as one whole day. If two or more anglers fish the same day, include that day in each angler's sum.
 ↓ ↓ ↓ ↓ ④For each type of fish, write the total number kept by your household. **Example:** If two household anglers fished the same day, No. Days Fished = 2.

P ₃	No. of Household Anglers	No. of Household Trips	Sum of Each Angler's Calendar Days Fished	King Salmon		Sea-run Silver Salmon	Red Salmon	Pink Salmon	Chum Salmon	Other (Specify)
				Kept	Kept					
DIPNET/GILLNET Finfish										Kept
NET FISHERIES	★	★	★	★	★	★	★	★	★	★
9001. China Poot										
9002. Kenai River										
9003. Kasilof River (dipnet)										
9007. Kasilof River (gillnet)										

SHELLFISH ↓ ①Number of Household Anglers who fished. Do not include visiting friends, relatives, or other party members outside your household.
 ↓ ↓ ②Number of Household Trips (a Trip, which may last one or more days, is a visit to a fishing site).
 ↓ ↓ ↓ ③Sum of Each Angler's Calendar Days Fished. Count any part of a day as one whole day. If two or more anglers fish the same day, include that day in each angler's sum.
 ↓ ↓ ↓ ↓ ④For each site fished, write the total number caught and the number kept where indicated, or the number kept only by your household. **Example:** If two household anglers fished the same day, No. Days Fished = 2.

P ₂	No. of Household Anglers	No. of Household Trips	Sum of Each Angler's Calendar Days Fished	King Crab		Dungeness Crab		Tanner Crab		Shrimp (gallons)	Hard Shell Clams (gallons)	Razor Clams (nos.)	Other Shellfish (Specify)	
				Caught	Kept	Caught	Kept	Caught	Kept				Kept	Kept
Saltwater Shellfish	★	★	★	★	★	★	★	★	★	★	★	★	★	★
1. Resurrection Bay (Seward)														
2. Kachemak Bay (Homer)														
999. CLAMS: Deep Creek Beach (Anchor River to Deep Creek)														
997. CLAMS: Ninilchik Beach (Deep Creek to Set Net Access)*														
775. CLAMS: Clam Gulch (Set Net Access to Kasilof River)*														
4. Other Sites (Specify):														

*Set Net Access is a private road entering the beach approximately 10 miles north of Ninilchik and 8 miles south of the Clam Gulch beach access road.

Q. KODIAK AREA (see map page 8 for area description). Please include **only** information for members of your household.

- ① Number of Household Anglers who fished. Do not include visiting friends, relatives, or other party members outside your household.
- ② Number of Household Trips (a Trip, which may last one or more days, is a visit to a fishing site).
- ③ Sum of Each Angler's Calendar Days Fished. Count any part of a day as one whole day. If two or more anglers fish the same day, include that day in each angler's sum.
Example: If two household anglers fished the same day, No. Days Fished = 2.
- ④ For each type of fish, write the total number caught and the number kept by your household.

Q	No. of Household Anglers	No. of Household Trips	Sum of Each Angler's Calendar Days Fished	King Salmon		Sea-run Silver Salmon		Land-locked Silvers		Red Salmon		Pink Salmon		Chum Salmon		Dolly V. Arctic Char		Steel-head Trout	Rainbow Trout	Halibut	Shark	Rockfish see pg 44		Lingcod see pg 44		Razor Clams	Other (Specify)		
				C A U G H T	K E P T	C A U G H T	K E P T	C A U G H T	K E P T	C A U G H T	K E P T	C A U G H T	K E P T	C A U G H T	K E P T	C A U G H T	K E P T	C A U G H T	K E P T	C A U G H T	K E P T	C A U G H T	K E P T	C A U G H T	K E P T	C A U G H T	K E P T	C A U G H T	K E P T
SALTWATER	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★
736. Boat - Chiniak Bay Area*																													
814. Boat - Afognak Island Area																													
800. Boat - Shuyak Area																													
737. Shoreline - Chiniak Bay Area*																													
815. Shoreline - Afognak Island Area																													
887. Shoreline - Afognak Lagoon (Litnik)																													
812. Pauls Bay																													
1. Other Boat Sites (Specify):																													
2. Other Shoreline Sites (Specify):																													
FRESHWATER	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★
3. Buskin River																													
4. Pasagshak River																													
5. Karluk River and Lagoon																													
114. American River																													
163. Olds River (or Creek)																													
174. Red River (Ayakulik)																													
215. Saltery Cove Streams																													
106. Other Streams (Specify):																													
108. Roadside Lakes (Specify):																													
109. Other Lakes (Specify):																													

*Cape Chiniak to Monashka Bay.

R. NAKNEK DRAINAGE - ALASKA PENINSULA AREA (see map page 8 for area description). Please include **only** information for members of your household.

- ① Number of Household Anglers who fished. Do not include visiting friends, relatives, or other party members outside your household.
- ② Number of Household Trips (a Trip, which may last one or more days, is a visit to a fishing site).
- ③ Sum of Each Angler's Calendar Days Fished. Count any part of a day as one whole day. If two or more anglers fish the same day, include that day in each angler's sum.
Example: If two household anglers fished the same day, No. Days Fished = 2.
- ④ For each type of fish, write the total number caught and the number kept by your household.

R	No. of Household Anglers	No. of Household Trips	Sum of Each Angler's Calendar Days Fished	King 28" and Under		King Over 28"		Silver Salmon		Red Salmon		Pink Salmon		Chum Salmon		Lake Trout		Dolly V. Arctic Char		Rainbow Trout		Arctic Grayling		Whitefish		Northern Pike		Burbot		Smelt		Halibut		Rockfish see pg 44		Lingcod see pg 44		Other (Specify)						
				C	K	C	K	C	K	C	K	C	K	C	K	C	K	C	K	C	K	C	K	C	K	C	K	C	K	C	K	C	K	C	K	C	K	C	K					
				A	E	A	E	A	E	A	E	A	E	A	E	A	E	A	E	A	E	A	E	A	E	A	E	A	E	A	E	A	E	A	E	A	E	A	E	A	E	A	E	
SALTWATER	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★			
1. Boat - Cold Bay Area																																												
756. Boat - Unalaska Bay																																												
3. Other Boat Sites (Specify):																																												
4. Shoreline Sites (Specify):																																												
FRESHWATER	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★		
5. Cold Bay Area, including Russel Creek																																												
281. Unalaska Bay Streams																																												
130. Chignik River																																												
182. American Creek																																												
275. Naknek River upstream section†																																												
279. Naknek River downstream section††																																												
8. Naknek Lake Bay of Islands																																												
9. Nakenk Lake - Other																																												
10. Brooks River																																												
13. Brooks Lake																																												
11. Ugashik System*																																												
12. Becharof System**																																												
113. Other Streams (Specify):																																												
114. Other Lakes (Specify):																																												

†From Rapids Camp 9 miles upstream to Naknek Lake outlet, including tributaries.
 ††From Rapids Camp downstream 19 miles to saltwater, including tributaries, includes Naknek River near the community of King Salmon.

*Including Upper and Lower Ugashik Lakes.
 **Including Becharof Lake, Kejulik and Egegik Rivers, and Shosky Creek.

T. NUSHAGAK AREA (see map page 8 for area description). Please include **only** information for members of your household.

- ① Number of Household Anglers who fished. Do not include visiting friends, relatives, or other party members outside your household.
- ② Number of Household Trips (a Trip, which may last one or more days, is a visit to a fishing site).
- ③ Sum of Each Angler's Calendar Days Fished. Count any part of a day as one whole day. If two or more anglers fish the same day, include that day in each angler's sum. **Example:** If two household anglers fished the same day, No. Days Fished = 2.
- ④ For each type of fish, write the total number caught and the number kept by your household.

T	No. of Household Anglers	No. of Household Trips	Sum of Each Angler's Calendar Days Fished	King 28" and Under		King Over 28"		Silver Salmon		Red Salmon		Pink Salmon		Chum Salmon		Lake Trout		Dolly V. Arctic Char		Rainbow Trout		Arctic Grayling		Whitefish		Northern Pike		Burbot		Smelt		Other (Specify)	
				CAUGHT	KEPT	CAUGHT	KEPT	CAUGHT	KEPT	CAUGHT	KEPT	CAUGHT	KEPT	CAUGHT	KEPT	CAUGHT	KEPT	CAUGHT	KEPT	CAUGHT	KEPT	CAUGHT	KEPT	CAUGHT	KEPT	CAUGHT	KEPT	CAUGHT	KEPT	CAUGHT	KEPT	CAUGHT	KEPT
SALTWATER	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	
1. Boat Sites (Specify):																																	
2. Shoreline Sites (Specify):																																	
FRESHWATER	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★		
188. Nushagak River-Black Point to outlet of Iowithla River*																																	
189. Nushagak River-Iowithla River to outlet of Mulchatna River*																																	
190. Nushagak River-upstream from mouth of Mulchatna River*																																	
3. Other Nushagak System (Specify):																																	
112. Lake Aleknagik																																	
111. Agulowak River																																	
128. Agulukpak River																																	
4. Other Wood River Lakes System**																																	
5. Tikchik-Nuyakuk Lake System***																																	
6. Togiak River System****																																	
7. Mulchatna River																																	
8. Chilakadrotna River																																	
109. Other Streams (Specify):																																	
110. Other Lakes (Specify):																																	

*Excluding Mulchatna, Nuyakuk, Iowithla, and Chilakadrotna Rivers.
 **Including Lakes Nerka, Beverley, and Kulik.

***Including Nuyakuk, Tikchik, Chickuminuk, Nishlik, and Upnuk Lakes, and Lake Chauekuktuli.
 ****Including Togiak River-Lake drainage area.

U. TANANA RIVER AREA - Page 1 of 2 (see map page 10 for area description). Please include **only** information for members of your household.

- ① Number of Household Anglers who fished. Do not include visiting friends, relatives, or other party members outside your household.
- ② Number of Household Trips (a Trip, which may last one or more days, is a visit to a fishing site).
- ③ Sum of Each Angler's Calendar Days Fished. Count any part of a day as one whole day. If two or more anglers fish the same day, include that day in each angler's sum.
 Example: If two household anglers fished the same day, No. Days Fished = 2.
- ④ For each type of fish, write the total number caught and the number kept by your household.

U	No. of Household Anglers	No. of Household Trips	Sum of Each Angler's Calendar Days Fished	Sea-run King Salmon		Sea-run Silver Salmon		Sea-run Chum Salmon		Land locked Kings, Silvers		Lake Trout		Dolly V. Arctic Char		Rainbow Trout		Arctic Grayling under 12"		Arctic Grayling 12" & over		Least Cisco		Hump-back Whitefish		Round Whitefish		Sheefish		Other Whitefish		Northern Pike 30" & under		Northern Pike over 30"		Burbot		Other (Specify)							
				C	A	C	A	C	A	C	A	C	A	C	A	C	A	C	A	C	A	C	A	C	A	C	A	C	A	C	A	C	A	C	A	C	A	C	A	C	A				
				U	G	H	T	U	G	H	T	U	G	H	T	U	G	H	T	U	G	H	T	U	G	H	T	U	G	H	T	U	G	H	T	U	G	H	T	U	G	H	T	U	G
Sport Fishing	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★				
FRESHWATER																																													
1. Upper Chena River*																																													
2. Lower Chena River** (including Badger Slough)																																													
319. Piledriver Slough (including Moose Creek)																																													
513. Nenana River Drainage (excluding Brushkana Creek)																																													
613. Lower Chatanika River & tribs (downstream of Elliot Highway)																																													
614. Upper Chatanika River & tribs (upstream of Elliot Highway)																																													
5. Salcha River																																													
6. Delta Clearwater River																																													
7. Richardson Clearwater River																																													
8. Goodpaster River																																													
16. Shaw Creek																																													
17. Delta River (below Tangle Lakes)																																													
137. Brushkana Creek																																													
514. Lower Tanana River† (mainstem only)																																													
515. Middle Tanana River†† (mainstem only)																																													
516. Upper Tanana River††† (mainstem only)																																													
116. Other Streams (Specify):																																													

*The Chena River and tributaries accessed from the Chena Hot Springs Road beyond 25 mile on the road. This section is a catch and release water for Arctic grayling. All Arctic grayling caught must be released.
 **The Chena River and tributaries from the mouth upstream to 25 mile Chena Hot Springs Road, including all parts of Badger Slough (sometimes called Chena Slough). This section is a catch and release water for Arctic grayling.
 †The mainstem Tanana River downstream from Nenana. ††The mainstem Tanana River between Delta Junction and Nenana. †††The mainstem Tanana River upstream from Delta Junction.

Please note: "U" is continued on the next page.

V. KUSKOKWIM RIVER AREA (see map page 10 for area description). Please include **only** information for members of your household.

- ① **Number of Household Anglers** who fished. Do not include visiting friends, relatives, or other party members outside your household.
- ② **Number of Household Trips** (a Trip, which may last one or more days, is a visit to a fishing site).
- ③ **Sum of Each Angler's Calendar Days Fished.** Count any part of a day as one whole day. If two or more anglers fish the same day, include that day in **each** angler's sum.
Example: If two household anglers fished the same day, No. Days Fished = 2.
- ④ For each type of fish, write the total number caught and the number kept by your household.

V	No. of Household Anglers	No. of Household Trips	Sum of Each Angler's Calendar Days Fished	King Salmon		Silver Salmon		Red Salmon		Pink Salmon		Chum Salmon		Lake Trout		Dolly V. Arctic Char		Rainbow Trout		Arctic Grayling		Whitefish		Sheefish		Northern Pike		Burbot		Smelt		Halibut		Other (Specify)			
				C	K	C	K	C	K	C	K	C	K	C	K	C	K	C	K	C	K	C	K	C	K	C	K	C	K	C	K	C	K	C	K	C	K
				A	E	A	E	A	E	A	E	A	E	A	E	A	E	A	E	A	E	A	E	A	E	A	E	A	E	A	E	A	E	A	E	A	E
SALTWATER	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	
1. Boat Sites (Specify):																																					
2. Shoreline Sites (Specify):																																					
FRESHWATER	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★		
5. Aniak River																																					
6. Holitna River																																					
3. Kanektok River																																					
4. Goodnews River																																					
7. Other Streams (Specify):																																					
8. Lakes (Specify):																																					

W. SEWARD PENINSULA - NORTON SOUND AREA (see map page 10 for area description). Please include **only** information for members of your household.

- ① **Number of Household Anglers** who fished. Do not include visiting friends, relatives, or other party members outside your household.
- ② **Number of Household Trips** (a Trip, which may last one or more days, is a visit to a fishing site).
- ③ **Sum of Each Angler's Calendar Days Fished**. Count any part of a day as one whole day. If two or more anglers fish the same day, include that day in each angler's sum.
Example: If two household anglers fished the same day, No. Days Fished = 2.
- ④ For each type of fish, write the total number caught and the number kept by your household.

W	No. of Household Anglers	No. of Household Trips	Sum of Each Angler's Calendar Days Fished	King Salmon		Silver Salmon		Red Salmon		Pink Salmon		Chum Salmon		Dolly V. Arctic Char		Arctic Grayling 15" & under		Arctic Grayling over 15"		Whitefish		Sheefish		Northern Pike		Burbot		Smelt		Halibut		King Crab		Other (Specify)			
				C A U G H T	K E E P T	C A U G H T	K E E P T	C A U G H T	K E E P T	C A U G H T	K E E P T	C A U G H T	K E E P T	C A U G H T	K E E P T	C A U G H T	K E E P T	C A U G H T	K E E P T	C A U G H T	K E E P T	C A U G H T	K E E P T	C A U G H T	K E E P T	C A U G H T	K E E P T	C A U G H T	K E E P T	C A U G H T	K E E P T	C A U G H T	K E E P T				
SALTWATER	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★		
1. Boat Sites (Specify):																																					
2. Shoreline Sites (Specify):																																					
FRESHWATER	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★		
6. Pilgrim River																																					
4. Nome River																																					
5. Fish-Niukluk River System*																																					
3. Unalakleet River																																					
22. Sinuk River																																					
12. Snake River																																					
15. Solomon River																																					
14. Fox River																																					
18. Kuzitrin River																																					
94. North River																																					
41. Shaktoolik River																																					
11. Eldorado River																																					
30. Flambeau River																																					
7. Other Streams (Specify):																																					
8. Lakes (Specify):																																					

*Including Pargon, Rathlatulik, Casadepaga, Niukluk, and Fish Rivers, and Boston Creek.

Y. YUKON RIVER AREA (see map page 10 for area description). Please include **only** information for members of your household.

- ① **Number of Household Anglers** who fished. Do not include visiting friends, relatives, or other party members outside your household.
- ② **Number of Household Trips** (a Trip, which may last one or more days, is a visit to a fishing site).
- ③ **Sum of Each Angler's Calendar Days Fished**. Count any part of a day as one whole day. If two or more anglers fish the same day, include that day in each angler's sum.
Example: If two household anglers fished the same day, No. Days Fished = 2.
- ④ For each type of fish, write the total number caught and the number kept by your household.

Y	No. of Household Anglers	No. of Household Trips	Sum of Each Angler's Calendar Days Fished	King Salmon		Silver Salmon		Red Salmon		Pink Salmon		Chum Salmon		Lake Trout		Dolly V. Arctic Char		Arctic Grayling		Whitefish		Sheefish		Northern Pike		Burbot		Smelt		Halibut		Other (Specify)	
				C A U G H T	K E P T	C A U G H T	K E P T	C A U G H T	K E P T	C A U G H T	K E P T	C A U G H T	K E P T	C A U G H T	K E P T	C A U G H T	K E P T	C A U G H T	K E P T	C A U G H T	K E P T	C A U G H T	K E P T	C A U G H T	K E P T	C A U G H T	K E P T	C A U G H T	K E P T	C A U G H T	K E P T	C A U G H T	K E P T
SALTWATER	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★
1. Boat Sites (Specify):																																	
2. Shoreline Sites (Specify):																																	
FRESHWATER	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	
YUKON RIVER DRAINAGES DOWNSTREAM FROM KOYUKUK RIVER				•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	
147. Andreafsky River																																	
148. Anvik River																																	
182. Innoko River																																	
74. Nulato River																																	
247. Other Sites (Specify):*																																	
YUKON RIVER DRAINAGES KOYUKUK RIVER TO FORT YUKON				•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	
16. Koyukuk River Drainage**																																	
204. Nowitna River																																	
94. Dall River																																	
202. Beaver and Nome Creeks																																	
255. Birch Creek																																	
24. Porcupine River Drainage																																	
248. Other Sites (Specify):***																																	
YUKON RIVER DRAINAGES FORT YUKON TO CANADIAN BORDER				•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	
249. Other Sites (Specify):																																	
NON YUKON RIVER DRAINAGES				•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	
254. Other Sites (Specify):																																	

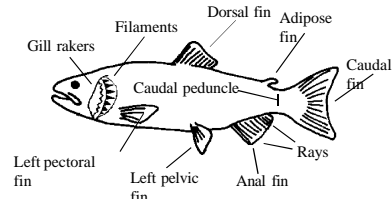
*Remainder of Yukon drainage downstream from the Koyukuk River.
 **Including Jim River, and Kanuti and Prospect drainages.
 ***Other Koyukuk River to Fort Yukon.

Z. NORTH SLOPE BROOKS RANGE AREA (see map page 10 for area description). Please include **only** information for members of your household.

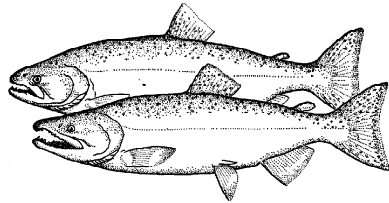
- ① **Number of Household Anglers** who fished. Do not include visiting friends, relatives, or other party members outside your household.
- ② **Number of Household Trips** (a Trip, which may last one or more days, is a visit to a fishing site).
- ③ **Sum of Each Angler's Calendar Days Fished.** Count any part of a day as one whole day. If two or more anglers fish the same day, include that day in each angler's sum.
Example: If two household anglers fished the same day, No. Days Fished = 2.
- ④ For each type of fish, write the total number caught and the number kept by your household.

Z	No. of Household Anglers	No. of Household Trips	Sum of Each Angler's Calendar Days Fished	King Salmon		Pink Salmon		Chum Salmon		Lake Trout		Dolly V. Arctic Char		Arctic Grayling		Whitefish		Northern Pike		Burbot		Smelt		Other (Specify)		
				C A U G H T	K E P T	C A U G H T	K E P T	C A U G H T	K E P T	C A U G H T	K E P T	C A U G H T	K E P T	C A U G H T	K E P T	C A U G H T	K E P T	C A U G H T	K E P T	C A U G H T	K E P T	C A U G H T	K E P T	C A U G H T	K E P T	C A U G H T
SALTWATER	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★
1. Boat Sites (Specify):																										
2. Shoreline Sites (Specify):																										
FRESHWATER	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★
LAKES NEAR HAUL ROAD/DALTON HIGHWAY				•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
99. Lakes (Specify):																										
STREAMS NEAR HAUL ROAD/DALTON HIGHWAY				•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
76. Sagavanirktok River																										
14. Kongakut River																										
100. Other Streams (Specify):																										
REMAINDER OF AREA Z FISHING SITES				•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
6. Other Streams (Specify):																										
5. Other Lake Sites (Specify):																										

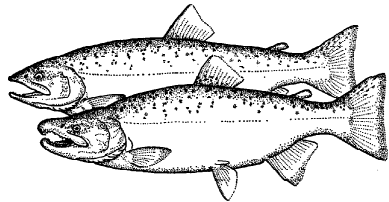
DISTINGUISHING CHARACTERISTICS OF SEVERAL SPECIES OF FISH



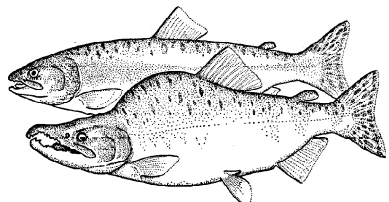
General Characteristics of Fish: cut away of operculum (gill-cover) showing one gill arch, filaments, and gill rakers.



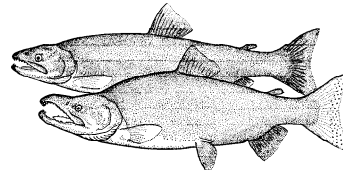
King (Chinook) Salmon: small black spots on back and on both lobes of caudal fin; gum line of lower jaw black; scales large; gill rakers less than 25; anal fin rays 15-17.



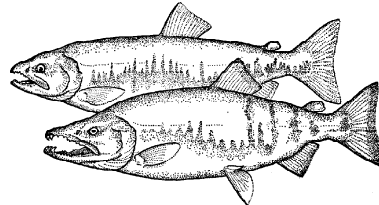
Silver (Coho) Salmon: small black spots usually occur only on upper lobe of caudal fin and on back; gum line on lower jaw not black; scales large; gill rakers less than 25; anal fin rays 13-15.



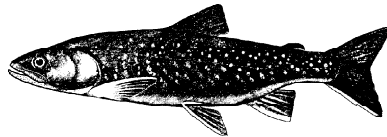
Pink (Humpback) Salmon: large oval black spots on back and on both lobes of caudal fin; scales very small; usually over 12 anal fin rays; males develop a pronounced hump during spawning.



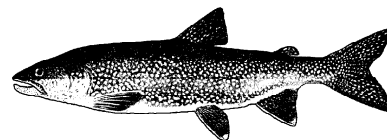
Sockeye (Red) Salmon and Kokanee (land-locked form): no distinct black spots on back or tail; 30-40 long, fine, and serrated, closely spaced gill rakers over 12 anal fin rays. NOTE: Kokanee should be recorded separately in the booklet.



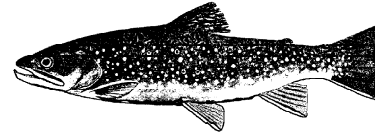
Chum (Dog) Salmon: no distinct black spots on back or tail; 18-28 smooth, short, stout, and widely spaced gill rakers; usually over 12 anal fin rays.



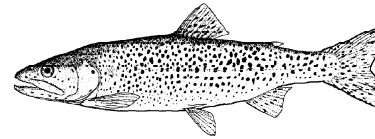
Dolly Varden/Arctic Char: round, red, pink or yellow spots on sides, caudal fin slightly forked; 8-12 anal fin rays; no dark green wavy marks on back or dorsal fin.



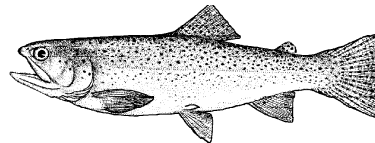
Lake Trout: body dark green to grayish with oval or irregular white to yellowish spots on sides and back; caudal fin deeply forked; 8-12 anal fin rays; no dark green wavy marks on back or dorsal fin.



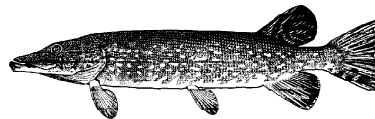
Brook Trout: spots on body pale or red with blue halos, but never brown or black; dark green wavy marks on back and dorsal fin; 8-12 anal fin rays.



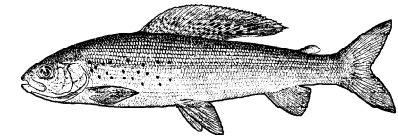
Cutthroat Trout: spots on body dark brown or black; anal fin rays 8-12; no red band on sides; red to orange slash on underside of lower jaw; upper jaw extends well behind eye in adults.



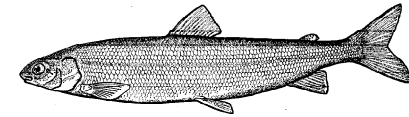
Rainbow Trout: spots on body dark brown or black; anal fin rays 8-12; reddish band on sides; no red slash under jaw; upper jaw usually does not extend behind eye in adults. NOTE: Steelhead are sea-run rainbows, and should be recorded separately in the booklet.



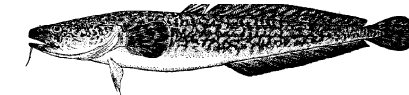
Northern Pike: dorsal and anal fins positioned rearward; no adipose fin as in the trouts, salmon, grayling and whitefish; long flattened jaws with large mouth and many large, sharp teeth, sides are yellowish-gray.



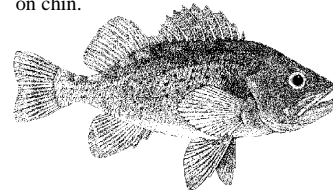
Arctic Grayling: dorsal fin typically with dark purple edge and much longer (18 or more rays) than in whitefish and fan-like; rows of reddish to orange and/or purple to green spots on dorsal fin; sides of fish are black spotted; scales larger than in trouts.



“Whitefish”: several common species that occur in Alaska are the round whitefish, humpback whitefish, least cisco, and sheefish. Whitefish are distinguished from the trout and salmon by the small, weak, or absent teeth and the presence of large scales; distinguished from the arctic grayling by the much smaller dorsal fin (15 or fewer rays). A round whitefish is shown.

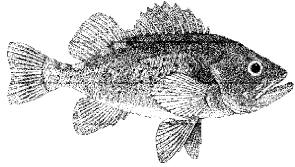


Burbot: two dorsal fins and one anal fin present; no adipose fin as in the trouts, salmon, grayling and whitefish; pelvic fins very far forward and just under head; body long and tapering; barbel on chin.

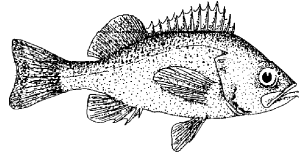


“Rockfish”: several species of marine fish also referred to as black bass, sea bass, and red snapper. Rockfish may be distinguished from sculpins (Irish Lords) by the dorsal fin, which has spines on the front half and soft rays on the rear half in the rockfish. NOTE: Handle with care because of spines.

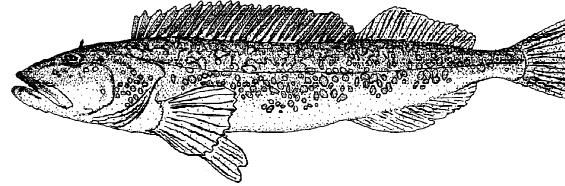
DISTINGUISHING CHARACTERISTICS OF SEVERAL SPECIES OF FISH



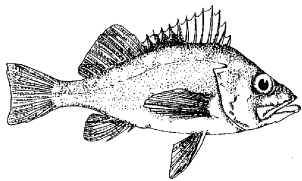
Black Rockfish: ("black bass") Black to blue-black with dusky white areas. Jaw extends to rear of eye. To 25 in.



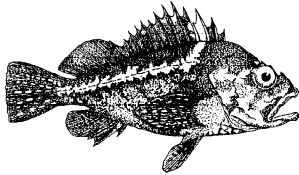
Dusky Rockfish: Color varies from dark brown or black to greenish-brown with pink underside. Dark fish have prominent knob on chin. To 20 in.



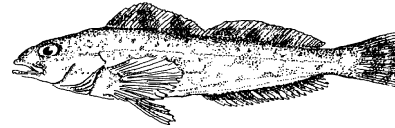
Lingcod: Brown to reddish-brown with spots or blotches. Sharp teeth. One lateral line. Long jaw. No barbel on chin. To 5 ft.



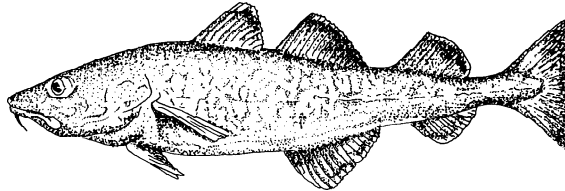
Canary Rockfish: Orange with greensih mottling. Lateral line is white to grey. To 30 in.



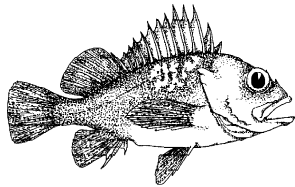
China Rockfish: Black with yellow spots. Yellow stripe from dorsal fin to rear of body. To 17 in.



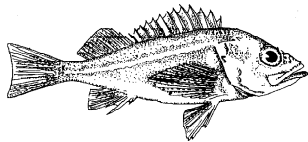
Kelp Greenling: Males brown with blue spots, females freckled with brown, 5 lateral lines. To 21 in.



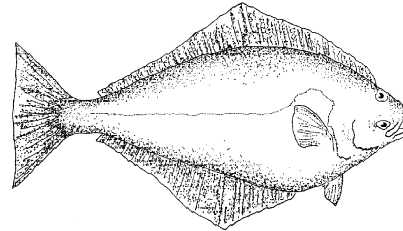
Pacific Cod: Chin barbel. Yellowish brown to gray with mottling. To 39 in.



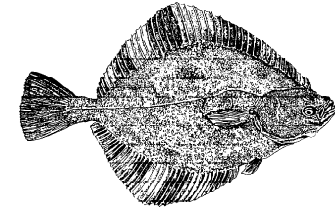
Quillback Rockfish: Black to brown with large orange areas. Dorsal fin notched deeply. To 24 in.



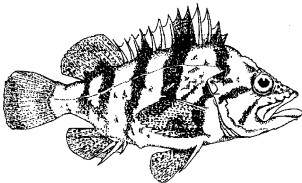
Redstripe Rockfish: Red lateral line in grey zone bordered by red. Lips dusky. To 20 in.



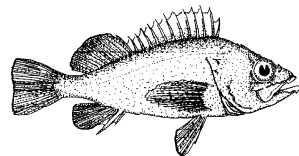
Halibut: Jaw extends below middle of eye. Lateral line arched over pectoral fin. To 8 ft.



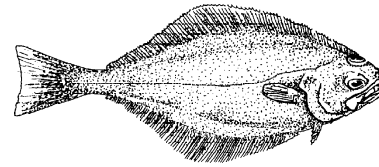
Starry Flounder: Black and yellow bands on fins. To 36 in.



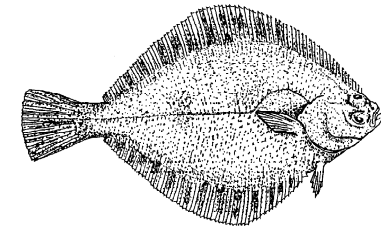
Tiger Rockfish: Black to dark red bars on pink to red body. To 24 in.



Yelloweye Rockfish: ("red snapper") Primarily orange. Pale yellow stripe on body. Yellow eye. To 36 in.



Arrowtooth Flounder: Large mouth and numerous sharp teeth. Little arching of lateral line. Upper eye reaches top of head. To 34 in.



Rock Sole: Lateral line arched over pectoral fin. Jaw does not extend below middle of eye. To 24 in.

1999 Sport Fish Survey

If you have questions about this survey, please call (907) 267-2369, or email us at SFPUB@fishgame.state.ak.us.

Dear Alaska Angler:

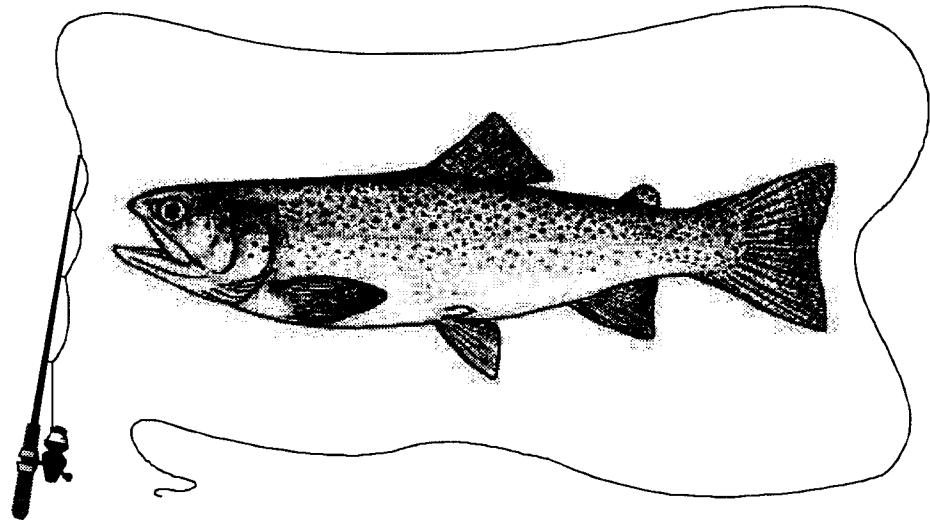
We have not yet received your completed 1999 Alaska Sport Fishing questionnaire. Even if you did not fish in Alaska during 1999, your responses to the General Questions on page 3 are important. Please complete the enclosed questionnaire and return it in the postage-paid envelope that is provided for your use. Your response will be considered confidential.

Please do not underestimate the importance of your fishing activities. As part of a representative sample of Alaska sport anglers chosen to participate in this study, the information you provide is vital to the success of this study, and may have significant impact on the future management of Alaska's sport fisheries.

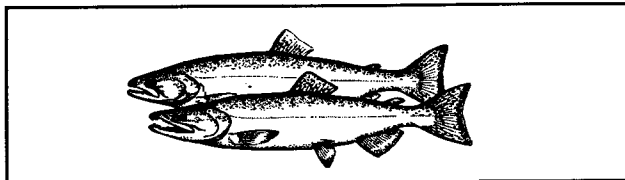
If you have already returned your questionnaire, please disregard this letter and accept our sincere thanks.

Sincerely,

Kevin Delaney, Director
Division of Sport Fish



Please do not remove or deface the label; it is used to record your response and prevent follow-up mailings.



191

Please visit the Department's web site at: <http://www.state.ak.us/local/akpages/FISH.GAME/adfhome.htm>

1999 Sport Fish Survey

If you have questions about this survey, please call (907) 267-2369, or email us at SFPUB@fishgame.state.ak.us.

Dear Alaska Angler:

Some time has passed since we first requested information about your fishing activities in Alaska in 1999. We have not yet received your reply.

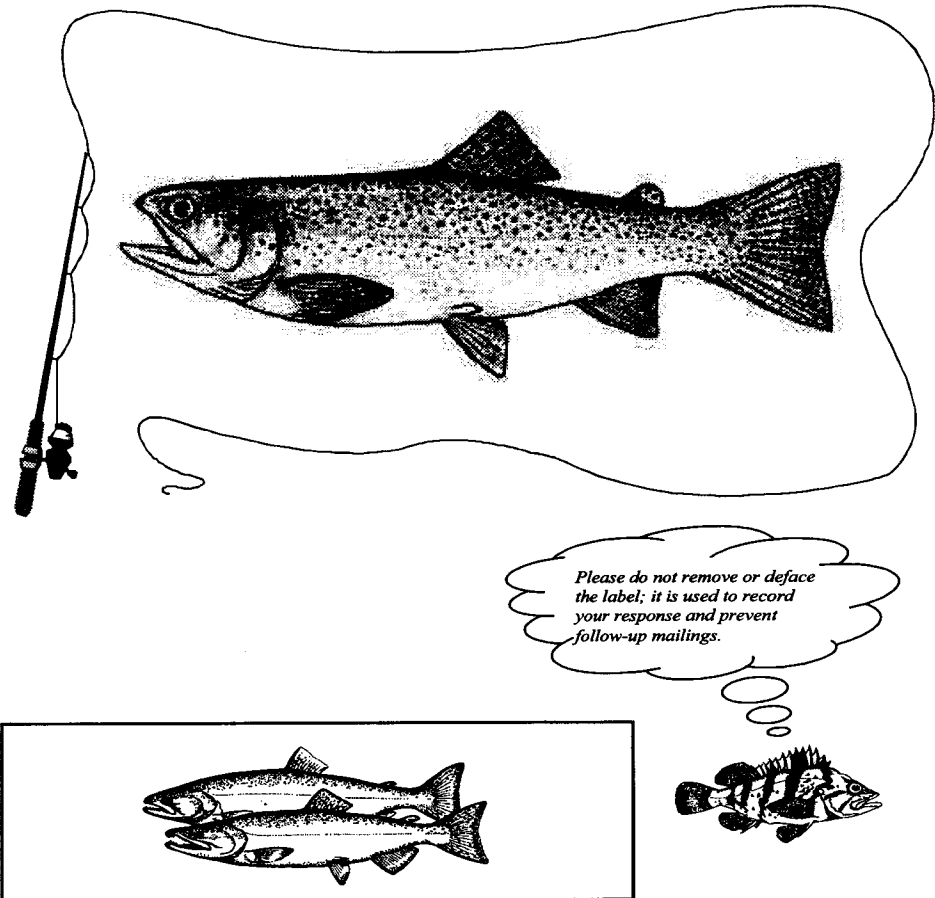
Even if you did not fish in Alaska during 1999, your responses to the General Questions on page 3 are important. Please answer the questions that pertain to your 1999 Alaska sport fishing and return the survey questionnaire in the enclosed postage-paid envelope.

You were selected as part of a representative sample of Alaska anglers and, as such, we urgently need your reply at the earliest possible date. Won't you give a few minutes of time now to help insure future fishing enjoyment in Alaska for yourself and others? Your response will be considered confidential.

If you have already returned your questionnaire, please disregard this letter and accept our sincere thanks.

Sincerely,

Kevin Delaney, Director
Division of Sport Fish



Please visit the Department's web site at: <http://www.state.ak.us/local/akpages/FISH.GAME/adfghome.htm>

1999 Sport Fish Survey

If you have questions about this survey, please call (907) 267-2369, or email us at SFPUB@fishgame.state.ak.us

Dear Alaska Angler:

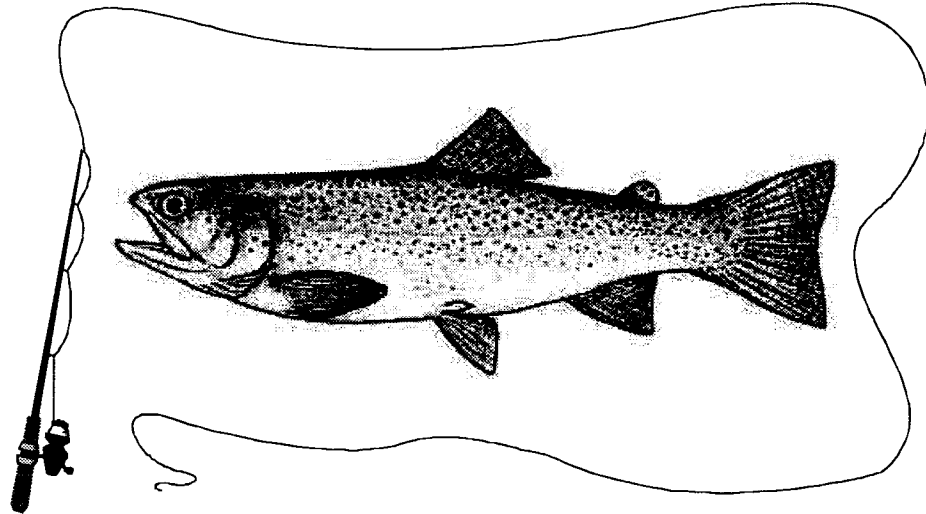
Alaska's sport fishery resources are attracting an ever-growing number of anglers. To help the Division of Sport Fish obtain the best possible information necessary to maintain and improve the quality of sport fishing in Alaska, the department conducts an annual survey of a representative sample of anglers who purchased a sport fishing license.

I would appreciate your taking a few minutes to answer the questions attached to this letter. Even if you did not fish in Alaska during 1999, your responses to the General Questions on page 3 are important. Please complete the enclosed questionnaire and return it in the postage-paid envelope that is provided for your use. Although there are quite a number of pages, the questions are straightforward and you need only respond to those pertaining to the areas of Alaska where you sport fished during the 1999 season. Be assured that your responses will be considered confidential.

This survey is a means by which you can participate in decisions concerning this state's fishery resources.

Sincerely,

Frank Rue
Commissioner



Please do not remove or deface the label; it is used to record your response and prevent follow-up mailings.

Please visit the Department's web site at: <http://www.state.ak.us/local/akpages/FISH.GAME/adfghome.htm>

Appendix B4.-Sport fish supplementary survey questionnaire, 1999.

INSTRUCTIONS:

Please help reduce costs: For statistical purposes we mail 2 reminders to those who do not respond. You can help reduce costs by replying promptly.

Period covered: January 1 through December 31, 1999.

Who to include: Report your household's sportfishing only. Do not include visiting friends, relatives, or other party members outside your household.

What if your household did not sport fish in 1999? Answer the questions on page 3 and return the survey in the postage-paid envelope so we may avoid mailing you additional 1999 surveys. **Thanks for your assistance!**

What if your household did sport fish in 1999? Read all instructions on this page, answer the questions on page 3, then review instructions and examples on pages 4 and 5, complete the pages that cover the areas sport fished, and return the survey in the postage-paid envelope. **Thanks for your assistance!**

What to include: Report all sport fishing, dipnet-caught salmon on dipnetting pages, dipnet-caught smelt in other sections, and shellfish where requested.

What to exclude: Do not report commercially-caught or subsistence-caught fish. A sportfishing guide should not report client information.

When to reply: Return this form after completing all 1999 sport fishing, including all ice fishing in the early months of 1999. Use the enclosed 1999 ice fish page for any ice fishing during the last half of 1999 and send it in separately. Please disregard any reminder surveys received prior to completion of all 1999 sportfishing.

Still have questions? If you have questions about this survey, please call (907) 267-2369 or contact us via email at SFPUB@fishgame.state.ak.us

SPORT ANGLERS LIVING OUTSIDE OF THE UNITED STATES

The postage permit that we have for return mail is good only in the United States. However, it is very important that anglers who do not live in the United States return their survey to us. Therefore, we must ask that you supply your own postage in order to return the survey questionnaire. We hope you will consider this as an additional contribution towards sound management of Alaska's sport fisheries.

Thank you for your cooperation and support.

The Alaska Department of Fish and Game administers all programs and activities free from discrimination on the basis of sex, color, race, religion, national origin, age, marital status, pregnancy, parenthood, or disability. For information on alternative formats available for this and other department publications, contact the department ADA Coordinator at (voice) 907-465-4120, or (telecommunication device for the deaf) 1-800-478-3648.

GENERAL QUESTIONS: The questions below apply to members of your household and the **1999** sportfishing season.

1. Total number of people in your household who sport fished in Alaska during 1999 _____?

NO LICENSE PURCHASED

1A. Number of persons under 16 years of age who sport fished in Alaska _____?

1B. Number of Alaska residents 60 years of age and older and number of Alaska resident disabled veterans who have a permanent identification card for Alaska sport fishing, including those who did not fish in Alaska _____?

1C. Number of persons recorded in 1B who did sport fish in Alaska _____?

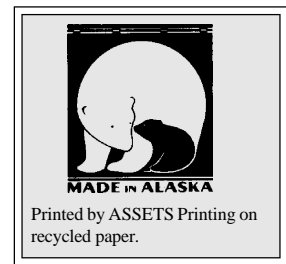
LICENSE PURCHASED

2A. Number of persons who purchased a sportfishing license, including those who did not fish in Alaska (DO NOT include anyone recorded in 1A, 1B, or 1C above) _____?

2B. Number of persons recorded in 2A who did sport fish in Alaska _____?

3. Please provide comments on sportfishing in Alaska during 1999 and your suggestions on how to improve it in the future.

Comments (enclose additional pages, if needed):



HOW TO RECORD YOUR HOUSEHOLD'S 1999 SPORT FISHING

CHARTERED/GUIDED means:

A person accompanied you to operate a boat or to otherwise assist you in the taking of fish or shellfish under sport or personal use regulations with the intent of receiving monetary or material compensation for services.

A person who provides only transportation services or rents a vessel or skiff without an operator or fishing gear is not a guide or charter operator for the purposes of this study.

SECTIONS	Page
SALTWATER, FINFISH NON-CHARTERED	6
SALTWATER, FINFISH CHARTERED	7
FRESHWATER, FINFISH NON-GUIDED	8
FRESHWATER, FINFISH GUIDED	9
SALMON DIPNETTING, NON-GUIDED	10
SALMON DIPNETTING, GUIDED	10
SHELLFISH, NON-GUIDED/NON-CHARTERED	11
SHELLFISH, GUIDED/CHARTERED	11
ICE FISHING, NON-GUIDED	12
ICE FISHING, GUIDED	12

INSTRUCTIONS & EXAMPLES (facing page) →



- ① **SECTIONS:** Locate the first **SECTION** (described above) of this form that covers your household's 1999 sport fishing.
- ② **SITES:** Locate the harvest area fished in the **MAP/SITE BOOKLET**. Write the **Area Code** letter (Example: "P" for Kenai Peninsula Area) in the column labeled **Area Code** letter. See the example on the facing page.
- ③ **SITES:** Write the **Site Name** by locating it in the **MAP/SITE BOOKLET**. Write the site number for each location fished (Example: "1" for Kenai River - Cook Inlet to Soldotna Bridge) in the columns labeled Site Number. If a site is not listed in the **MAP/SITE BOOKLET**, write the complete name in the **Site Name** column.
- ④ **FISHERY TYPE:** Some sections include **Boat** and **Bank/Shore Fishery Types**. Check one box for each line. If you fished from a **Boat** and also from **Bank/Shore** at the same site, write this information on two separate lines. See the example on the facing page.
- ⑤ **EFFORT:** For each site fished write the **Number of Household Anglers** who fished, the **Number of Household Trips**, and the **Sum of Each Angler's Calendar Days Fished** on all trips. Consider any part of a day as one whole day. **EXAMPLE:** A man and a woman fished together on 3 trips to the Kenai River. They fished 1 day on each trip and caught a total of 4 silver salmon and kept all 4. The man fished alone for half a day on each of 2 other trips to the Kenai River, but caught nothing. Thus for the Kenai River: Anglers = 2, Trips = 5 (3 by the man and woman together, 2 by the man alone), Days Fished = 8 (5 by the man, 3 by the woman). See the examples on the facing page.
- ⑥ **CATCH & HARVEST:** For each species write **BOTH**:
 - a) the number **caught**, and
 - b) the number **kept**.

EXAMPLE: 4 king salmon were caught. If 0 were kept, write 4/0; if 2 were kept, write 4/2; if 4 were kept write 4/4.
- ⑦ **REPEAT ①-⑥:** Repeat steps ① through ⑥ for each **SECTION** that describes your household's 1999 fishing.
Please return your completed survey in the postage-paid envelope. **Thanks for helping us help you.**

EXAMPLES: HOW TO RECORD YOUR HOUSEHOLD'S 1999 SPORT FISHING

Freshwater Finfish (open water). See page 12 for ice fishing, page 10 for salmon dipnetting.

GUIDED SPORT FISHING

- ① Number of Household Anglers who fished. Do not include visiting friends, relatives, or other party members outside your household.
- ② Number of Household Trips (a Trip, which may last one or more days, is a visit to a fishing site).
- ③ Sum of Each Angler's Calendar Days Fished. Count any part of a day as one whole day. If two or more anglers fish the same day, include that day in each angler's sum. **Example:** If two household anglers fished the same day, No. Days Fished = 2.
- ④ For each type of fish, write the total number caught and the number kept by your household.

Sites			Fishery Type (Check one per line)		No. of Household Anglers	No. of Household Trips	Sum of Each Angler's Calendar Days Fished	King Salmon		Silver Salmon	Land-locked Kings, Silvers	Red Salmon	Pink Salmon	Chum Salmon	Lake Trout	Dolly V. Arctic Char	Rainbow Trout	Cut-throat Trout	Steel-head Trout	Arctic Grayling	White-fish	Northern Pike	Burbot	Smelt	Other Finfish (Specify)	
Site Name	Area Code Letter	Site Number	Boat	Shore/Bank				SMALL*	LARGE*																	
<i>Kenai River - Cook Inlet to Soldotna Bridge</i>	P	1	X		1	1	4		1	1																
<i>Alexander Creek</i>	N	5	X		2	1	4															14	0			
<i>Karuk River & Lagoon</i>	Q	5		X	1	1	2					12	3													

* Refer to the Map/Site Booklet for specific sizes for "Small" vs. "Large".

Freshwater Finfish (open water). See page 12 for ice fishing, page 10 for salmon dipnetting.

NON-GUIDED SPORT FISHING

- ① Number of Household Anglers who fished. Do not include visiting friends, relatives, or other party members outside your household.
- ② Number of Household Trips (a Trip, which may last one or more days, is a visit to a fishing site).
- ③ Sum of Each Angler's Calendar Days Fished. Count any part of a day as one whole day. If two or more anglers fish the same day, include that day in each angler's sum. **Example:** If two household anglers fished the same day, No. Days Fished = 2.
- ④ For each type of fish, write the total number caught and the number kept by your household.

Sites			Fishery Type (Check one per line)		No. of Household Anglers	No. of Household Trips	Sum of Each Angler's Calendar Days Fished	King Salmon		Silver Salmon	Land-locked Kings, Silvers	Red Salmon	Pink Salmon	Chum Salmon	Lake Trout	Dolly V. Arctic Char	Rainbow Trout	Cut-throat Trout	Steel-head Trout	Arctic Grayling	White-fish	Northern Pike	Burbot	Smelt	Other Finfish (Specify)	
Site Name	Area Code Letter	Site Number	Boat	Shore/Bank				SMALL*	LARGE*																	
<i>Kenai River - Cook Inlet to Soldotna Bridge</i>	P	1	X		2	5	8		4	4																
<i>Kenai River - Cook Inlet to Soldotna Bridge</i>	P	1		X	1	1	1								1	1										
<i>Delta River</i>	N	17		X	2	1	4												8	4						

* Refer to the Map/Site Booklet for specific sizes for "Small" vs. "Large".

Saltwater Finfish: CHARTERED. See page 11 for shellfish, pages 8 and 9 for freshwater.

SOUTHEASTERN ALASKA (Areas A-H)

- ↓ ① Number of Household Anglers who fished. Do not include visiting friends, relatives, or other party members outside your household.
- ↓ ② Number of Household Trips (a Trip, which may last one or more days, is a visit to a fishing site).
- ↓ ③ Sum of Each Angler's Calendar Days Fished. Count any part of a day as one whole day. If two or more anglers fish the same day, include that day in each angler's sum. **Example:** If two household anglers fished the same day, No. Days Fished = 2.
- ↓ ④ For each type of fish, write the total number caught and the number kept by your household.

Sites			Fishery Type (Check one per line)		No. of Household Anglers	No. of Household Trips	Sum of Each Angler's Calendar Days Fished	King Salmon under 28"		King Salmon 28" & Over		Silver Salmon		Red Salmon		Pink Salmon		Chum Salmon		Dolly V. Arctic Char		Cut-throat Trout		Smelt		Halibut		Shark		Rock-fish		Lingcod		Pacific Cod		Other Finfish (Specify)					
Site Name	Area Code Letter	Site Number	Boat	Shore/Bank				CAUGHT	KEPT	CAUGHT	KEPT	CAUGHT	KEPT	CAUGHT	KEPT	CAUGHT	KEPT	CAUGHT	KEPT	CAUGHT	KEPT	CAUGHT	KEPT	CAUGHT	KEPT	CAUGHT	KEPT	CAUGHT	KEPT	CAUGHT	KEPT	CAUGHT	KEPT	CAUGHT	KEPT	CAUGHT	KEPT				

OTHER AREAS (I-Z)

Sites			Fishery Type (Check one per line)		No. of Household Anglers	No. of Household Trips	Sum of Each Angler's Calendar Days Fished	King Salmon SMALL*		King Salmon LARGE*		Silver Salmon		Red Salmon		Pink Salmon		Chum Salmon		Dolly V. Arctic Char		Cut-throat Trout		Smelt		Halibut		Shark		Rock-fish		Lingcod		Pacific Cod		Other Finfish (Specify)						
Site Name	Area Code Letter	Site Number	Boat	Shore/Bank				CAUGHT	KEPT	CAUGHT	KEPT	CAUGHT	KEPT	CAUGHT	KEPT	CAUGHT	KEPT	CAUGHT	KEPT	CAUGHT	KEPT	CAUGHT	KEPT	CAUGHT	KEPT	CAUGHT	KEPT	CAUGHT	KEPT	CAUGHT	KEPT	CAUGHT	KEPT	CAUGHT	KEPT	CAUGHT	KEPT	CAUGHT	KEPT			

* Refer to the Map/Site Booklet for specific sizes for "Small" vs. "Large".
If the MAP/SITE BOOKLET does not list specific size categories for a harvest area, record all catch and harvest under "Large".

Finfish

NON-GUIDED DIPNETTING

- ↓ ① Number of Household Anglers who fished. Do not include visiting friends, relatives, or other party members outside your household.
- ↓ ② Number of Household Trips (a Trip, which may last one or more days, is a visit to a fishing site).
- ↓ ③ Sum of Each Angler's Calendar Days Fished. Count any part of a day as one whole day. If two or more anglers fish the same day, include that day in each angler's sum. **Example:** If two household anglers fished the same day, No. Days Fished = 2.
- ↓ ④ For each type of fish, write the total number kept by your household.

Sites			No. of Household Anglers	No. of Household Trips	Sum of Each Angler's Calendar Days Fished	King Salmon	Silver Salmon	Red Salmon	Pink Salmon	Chum Salmon	Other Finfish (Specify)
Site Name	Area Code Letter	Site Number				KEPT	KEPT	KEPT	KEPT	KEPT	KEPT

Finfish

GUIDED DIPNETTING

- ↓ ① Number of Household Anglers who fished. Do not include visiting friends, relatives, or other party members outside your household.
- ↓ ② Number of Household Trips (a Trip, which may last one or more days, is a visit to a fishing site).
- ↓ ③ Sum of Each Angler's Calendar Days Fished. Count any part of a day as one whole day. If two or more anglers fish the same day, include that day in each angler's sum. **Example:** If two household anglers fished the same day, No. Days Fished = 2.
- ↓ ④ For each type of fish, write the total number kept by your household.

Sites			No. of Household Anglers	No. of Household Trips	Sum of Each Angler's Calendar Days Fished	King Salmon	Silver Salmon	Red Salmon	Pink Salmon	Chum Salmon	Other Finfish (Specify)
Site Name	Area Code Letter	Site Number				KEPT	KEPT	KEPT	KEPT	KEPT	KEPT

Shellfish

NON-GUIDED/ NON-CHARTERED

- ↓ ① Number of Household Anglers who fished. Do not include visiting friends, relatives, or other party members outside your household.
- ↓ ② Number of Household Trips (a Trip, which may last one or more days, is a visit to a fishing site).
- ↓ ③ Sum of Each Angler's Calendar Days Fished. Count any part of a day as one whole day. If two or more anglers fish the same day, include that day in each angler's sum. **Example:** If two household anglers fished the same day, No. Days Fished = 2.
- ↓ ④ For each site fished, write the total number caught and the number kept where indicated, or the number kept only by your household.

Sites			No. of Household Anglers	No. of Household Trips	Sum of Each Angler's Calendar Days Fished	Razor Clams	Hardshell Clams (gallons)	Shrimp (gallons)	King Crab	Dungeness Crab	Tanner Crab	Other Shellfish (Specify)	
Site Name	Area Code Letter	Site Number				KEPT	KEPT	KEPT	C A U G H T	K E P T	C A U G H T	K E P T	C A U G H T

Shellfish

GUIDED/ CHARTERED

- ↓ ① Number of Household Anglers who fished. Do not include visiting friends, relatives, or other party members outside your household.
- ↓ ② Number of Household Trips (a Trip, which may last one or more days, is a visit to a fishing site).
- ↓ ③ Sum of Each Angler's Calendar Days Fished. Count any part of a day as one whole day. If two or more anglers fish the same day, include that day in each angler's sum. **Example:** If two household anglers fished the same day, No. Days Fished = 2.
- ↓ ④ For each site fished, write the total number caught and the number kept where indicated, or the number kept only by your household.

Sites			No. of Household Anglers	No. of Household Trips	Sum of Each Angler's Calendar Days Fished	Razor Clams	Hardshell Clams (gallons)	Shrimp (gallons)	King Crab	Dungeness Crab	Tanner Crab	Other Shellfish (Specify)	
Site Name	Area Code Letter	Site Number				KEPT	KEPT	KEPT	C A U G H T	H G U G A L L O N S	C A U G H T	K E P T	C A U G H T

INSTRUCTIONS:

**Finfish
NON-GUIDED SPORT ICE FISHING - FIRST 6 MONTHS 1999**

1. Write your household's ice fishing completed for the **first six months of 1999** on this page.

2. If during the **last 6 months of 1999**, you have already ice fished or intend to ice fish:

- a. Locate the **separate** single sheet **ICE FISHING - LAST SIX MONTHS 1999** form enclosed,
- b. Write the ID number from the label on the front cover of this bound form on the **separate** single sheet ice fishing form, and
- c. Complete and return the **separate** single sheet form by January 2000.

- ① **Number of Household Anglers** who fished. Do not include visiting friends, relatives, or other party members outside your household.
- ② **Number of Household Trips** (a Trip, which may last one or more days, is a visit to a fishing site).
- ③ **Sum of Each Angler's Calendar Days Fished.** Count any part of a day as one whole day. If two or more anglers fish the same day, include that day in each angler's sum. **Example:** If two household anglers fished the same day, No. Days Fished = 2.
- ④ For each type of fish, write the total number caught and the number kept by your household.

Sites			No. of Household Anglers	No. of Household Trips	Sum of Each Angler's Calendar Days Fished	Land-locked Kings, Silvers		Lake Trout		Dolly V. Arctic Char		Rainbow Trout		Cut-throat Trout		Arctic Grayling		Northern Pike		Burbot		Sheefish		Whitefish		Other Finfish (Specify)		
Site Name	Area Code Letter	Site Number				C A U G H T	K E E P T	C A U G H T	K E E P T	C A U G H T	K E E P T	C A U G H T	K E E P T	C A U G H T	K E E P T	C A U G H T	K E E P T	C A U G H T	K E E P T	C A U G H T	K E E P T	C A U G H T	K E E P T	C A U G H T	K E E P T	C A U G H T	K E E P T	C A U G H T

Otherwise...

**Finfish
GUIDED SPORT ICE FISHING - FIRST 6 MONTHS 1999**

3. If you have completed all 1999 ice fishing by today's date:

- a. complete both forms, as needed, to report your household's ice fishing.
- b. Promptly return all forms, even if blank, in the envelope provided.

- ① **Number of Household Anglers** who fished. Do not include visiting friends, relatives, or other party members outside your household.
- ② **Number of Household Trips** (a Trip, which may last one or more days, is a visit to a fishing site).
- ③ **Sum of Each Angler's Calendar Days Fished.** Count any part of a day as one whole day. If two or more anglers fish the same day, include that day in each angler's sum. **Example:** If two household anglers fished the same day, No. Days Fished = 2.
- ④ For each type of fish, write the total number caught and the number kept by your household.

Sites			No. of Household Anglers	No. of Household Trips	Sum of Each Angler's Calendar Days Fished	Land-locked Kings, Silvers		Lake Trout		Dolly V. Arctic Char		Rainbow Trout		Cut-throat Trout		Arctic Grayling		Northern Pike		Burbot		Sheefish		Whitefish		Other Finfish (Specify)		
Site Name	Area Code Letter	Site Number				C A U G H T	K E E P T	C A U G H T	K E E P T	C A U G H T	K E E P T	C A U G H T	K E E P T	C A U G H T	K E E P T	C A U G H T	K E E P T	C A U G H T	K E E P T	C A U G H T	K E E P T	C A U G H T	K E E P T	C A U G H T	K E E P T	C A U G H T	K E E P T	C A U G H T

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TAPE HERE

Alaska Department of Fish and Game
333 Raspberry Rd.
Anchorage, Alaska 99518-1599



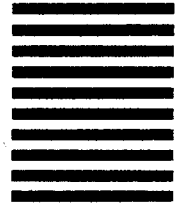
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SPORT FISH SURVEY
333 RASPBERRY RD.
ANCHORAGE, AK 99518-9962



(FOLD HERE)

1999 Sport Fish Survey

If you have questions about this survey, please call (907) 267-2369, or email us at SFPUB@fishgame.state.ak.us.

Dear Alaska Angler:

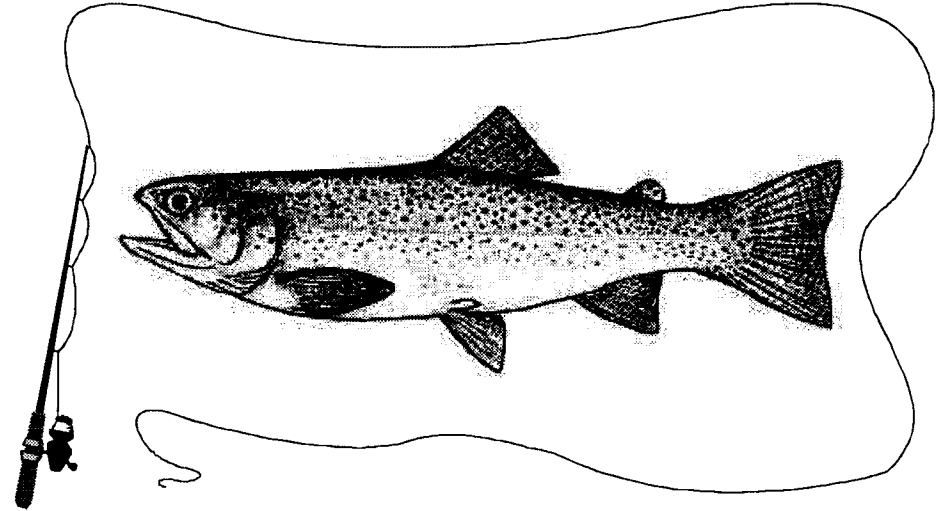
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Please do not underestimate the importance of your fishing activities. As part of a representative sample of Alaska sport anglers chosen to participate in this study, the information you provide is vital to the success of this study, and may have significant impact on the future management of Alaska's sport fisheries.

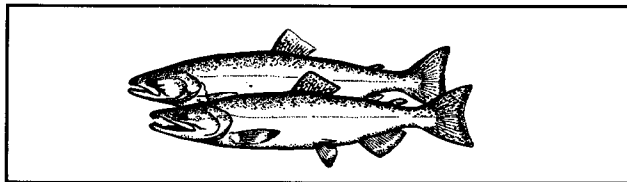
If you have already returned your questionnaire, please disregard this letter and accept our sincere thanks.

Sincerely,

Kevin Delaney, Director
Division of Sport Fish



Please do not remove or deface the label; it is used to record your response and prevent follow-up mailings.



Please visit the Department's web site at: <http://www.state.ak.us/local/akpages/FISH.GAME/adfghome.htm>

1999 Sport Fish Survey

If you have questions about this survey, please call (907) 267-2369, or email us at SFPUB@fishgame.state.ak.us.

Dear Alaska Angler:

Some time has passed since we first requested information about your fishing activities in Alaska in 1999. We have not yet received your reply.

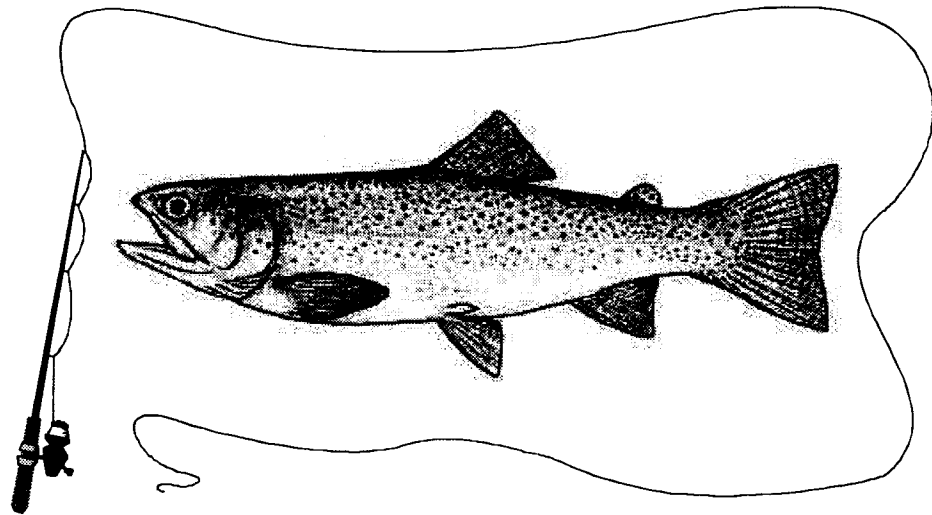
Even if you did not fish in Alaska during 1999, your responses to the General Questions on page 3 are important. Please answer the questions that pertain to your 1999 Alaska sport fishing and return the survey questionnaire in the enclosed postage-paid envelope.

You were selected as part of a representative sample of Alaska anglers and, as such, we urgently need your reply at the earliest possible date. Won't you give a few minutes of time now to help insure future fishing enjoyment in Alaska for yourself and others? Your response will be considered confidential.

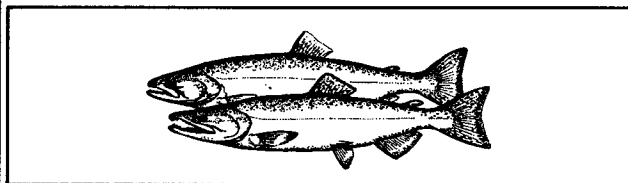
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MAP/SITE BOOKLET

Alaska Sport Fishing Areas - Maps, Area Descriptions, and Fish Size Categories

USE THIS BOOKLET TO:

1. Locate your fishing sites on the enclosed maps.
2. Determine the sport fishing Area Code letter.
3. Determine the Site Number for each site fished.
4. Determine the fish lengths for "Large" and "Small" size categories.
5. If you have questions about this survey, please call (907) 267-2369.

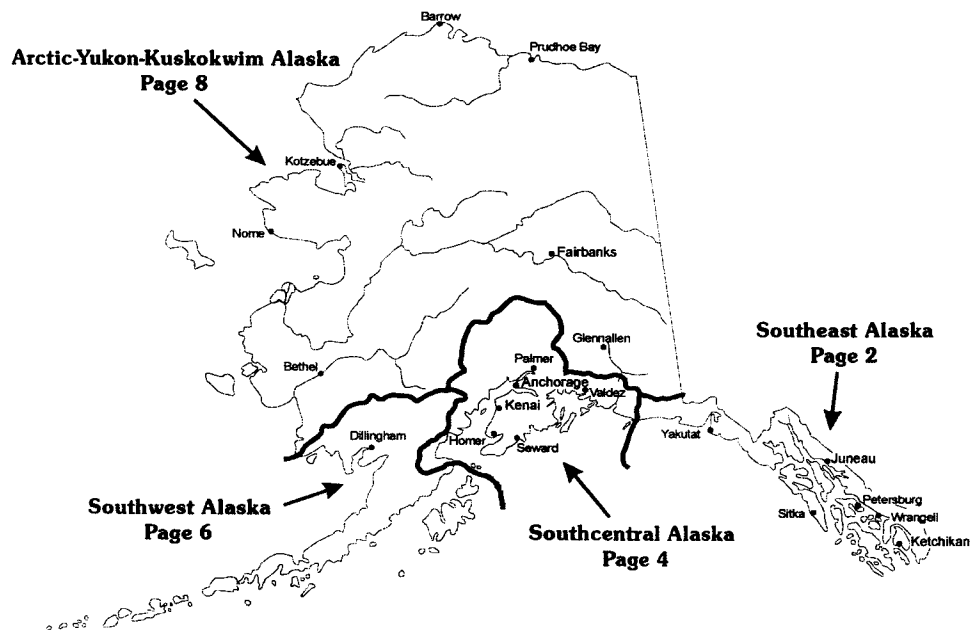
Use the map below to locate the booklet pages that apply to your household's 1999 sport fishing.

SPORT ANGLERS LIVING OUTSIDE OF THE UNITED STATES

The postage permit that we have for return mail is good only in the United States. However, it is very important that anglers who do not live in the United States return their survey to us. Therefore, we must ask that you supply your own postage in order to return the survey questionnaire. We hope you will consider this as an additional contribution towards sound management of Alaska's sport fisheries.

Thank you for your cooperation and support.

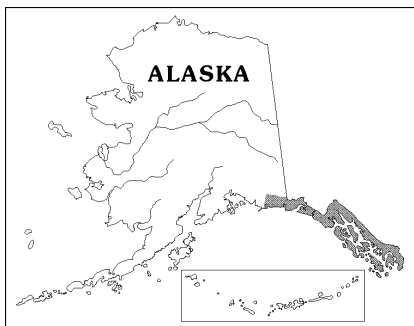
The Alaska Department of Fish and Game administers all programs and activities free from discrimination on the basis of sex, color, race, religion, national origin, age, marital status, pregnancy, parenthood, or disability. For information on alternative formats available for this and other department publications, contact the department ADA Coordinator at (voice) 907-465-4120, or (telecommunication device for the deaf) 1-800-478-3648.



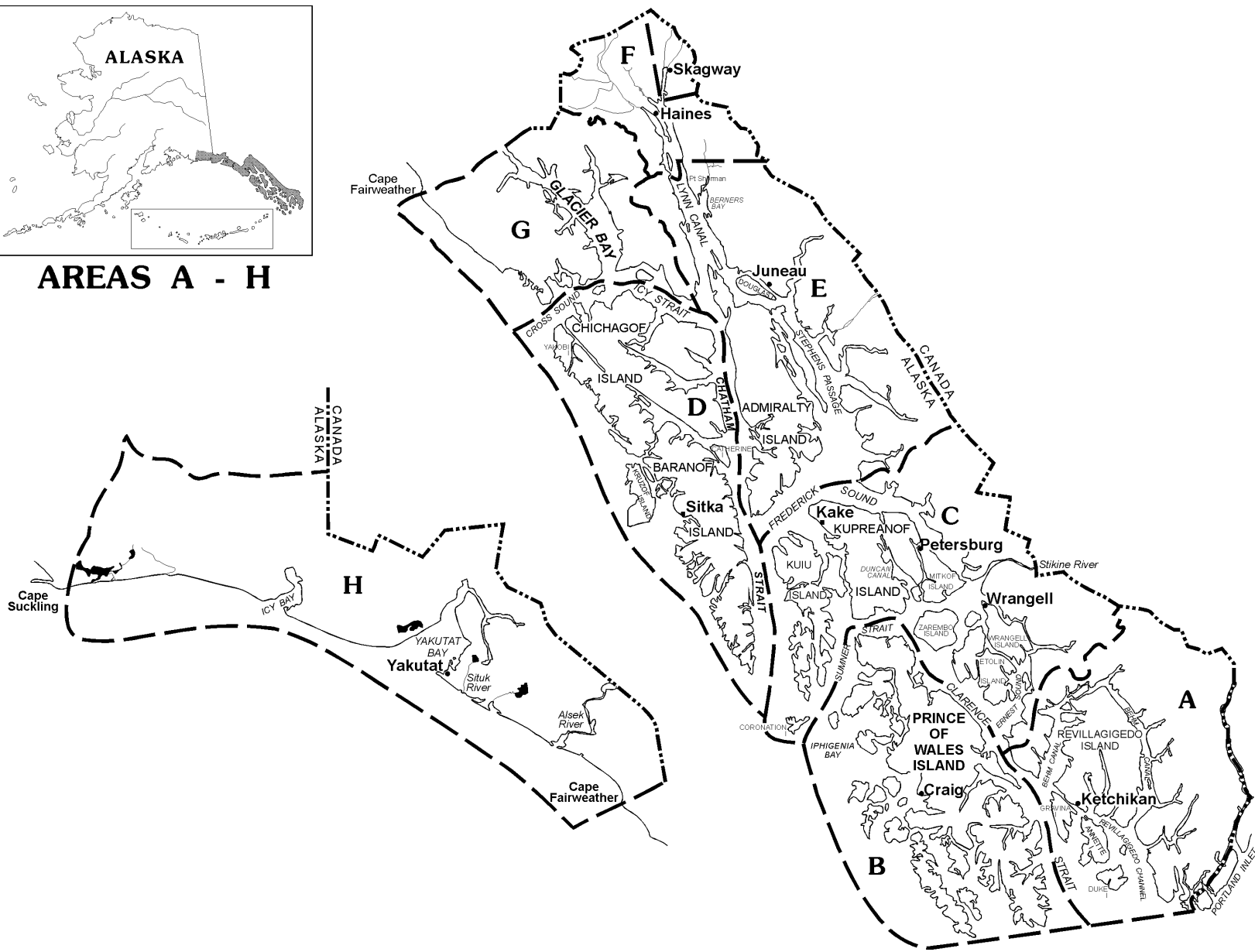
Please visit the Department's web site at: <http://www.state.ak.us/local/akpages/FISH.GAME/adfghome.htm>
If you have questions about this survey, please call (907) 267-2369 or email us at SFPUB@fishgame.state.ak.us

Appendix B7.-Sport fish supplementary survey map/site booklet, 1999.

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AREAS A - H



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SOUTHEASTERN ALASKA SPORT FISH SURVEY AREAS		PAGE
A. KETCHIKAN AREA	All Alaska waters and drainages of the Unuk River and East Behm Canal south to the Proposed International Boundary line and east of a line bisecting Clarence Strait to the Canadian border. This area includes Duke, Annette, Revillagigedo, Gravina islands, and others. FISHING SITES: East and West Behm Canals, Clarence Strait, Revillagigedo Channel, Tongass Narrows, Yes Bay, Bell Island, Naha River, Ward Cove Creek, and others.	10
B. PRINCE OF WALES AREA	Alaska marine and fresh waters west of a line bisecting Clarence Strait and north of the Proposed International Boundary to a line bisecting Sumner Strait (including Forrester Island in the south and Warren Island in the north.) FISHING SITES: Karta and Klawock rivers, Nossuk and Shaheen creeks, Sweetwater-Thorne system, and others	10
C. KAKE, PETERSBURG, WRANGELL, STIKINE AREA	Alaska waters, including freshwater drainages, bounded by a line from Ernest Sound east through Bradfield Canal to the Canadian border and north along a line bisecting Clarence Strait to Sumner Strait, bisecting Sumner Strait and turning south to, and including, Coronation Island. This area is bounded on the north by a line from the Canadian border west through Cape Fanshaw and bisecting Frederick Sound before ending at the Sitka Borough boundary in Chatham Strait. The Sitka Borough boundary extended south to Coronation Island forms the western boundary; the Canadian border forms the eastern boundary. Islands in this area include, but are not limited to, Etolin, Deer, Onslow, Sumner, Wrangell, Zarembo, Kupreanof, Mitkof, Farm, Kuiu, and Coronation. FISHING SITES: Blind Slough/Wrangell Narrows, Duncan Saltchuck/Duncan Canal; Grays Pass; Castle River; Anan, Petersburg, and Kadake creeks; and others.	10
D. SITKA AREA	All Alaska marine and fresh waters within the Sitka Borough boundary and north to a line following the Glacier Bay National Monument boundary in Cross Sound and bisecting Icy Strait. Islands in this area include, but are not limited to, Baranof, Kruzof, Catherine, Chichagof, Inian, Lemesurier, and Yakobi. FISHING SITES: Starrigavan Bay, Goulding River and Lakes, Mud Bay Creek, Plotnikof/Rezanof system, Pavlov Harbor system, Lake Eva, and others.	11
E. JUNEAU AREA	All Alaska marine and fresh waters bounded on the south by a line from the Canadian border west through Cape Fanshaw to the Sitka Borough boundary in Chatham Strait; on the east by the Canadian border; on the north by the Haines Borough/Juneau City and Borough boundary from Mount Nesselrode (Boundary Peak 98) on the Canadian border, west to Eldred Rock Lighthouse, south through Lynn Canal to latitude of Point Sherman, west through Lynn Canal and ending at the western boundary of Glacier Bay National Monument north of the Endicott River watershed; and on the west by all east-side drainages of the Lynn Canal and a line bisecting Chatham Strait south from Pt. Couverden to Frederick Sound. This area includes all of Admiralty Island. FISHING SITES: Doty Cove to Berners Bay (including all Berners Bay rivers) and west to Point Retreat; Dupont to Echo Cove and Douglas Island; Mitchell Bay Salt Lagoon; Salmon Creek Reservoir; Hasselborg, Florence, Turner, and Peterson lakes; and others.	11
F. HAINES-SKAGWAY AREA	All Alaska marine and fresh waters north of the Haines Borough/Juneau City and Borough boundary from Mount Nesselrode (Boundary Peak 98) Canadian border, west to Eldred Rock Lighthouse, south through Lynn Canal to latitude of Point Sherman, west through Lynn Canal and ending at the western boundary of Glacier Bay National Monument north of the Endicott River watershed; and north and east of this National Monument boundary to the Canadian border. The area does not include Pt. Sherman. FISHING SITES: Chilkoot River, Chilkoot Lake, and others. SKAGWAY SUB-AREA: That portion of the Haines-Skagway Area north of a line from Taiya Point east to the Canadian border and north and east of the Ferebee River drainage (excludes Ferebee River). HAINES SUB-AREA: Remainder of Haines-Skagway Area.	11
G. GLACIER BAY AREA	All marine and fresh waters within the Glacier Bay National Monument boundaries, all east-side drainages of Excursion Inlet and Icy Strait to Pt. Couverden, and that area south of the monument and north of a line bisecting Icy Strait. This includes, but is not limited to, Rocky, Ansley, Entrance, Porpoise, and Pleasant Islands, The Sisters, and the town of Gustavus.	12
H. YAKUTAT AREA	All Gulf of Alaska drainages from Cape Fairweather north to, but not including, Cape Suckling. This area includes associated salt water and is bounded inland by the Canadian border and the Bagley Icefield. FISHING SITES: Situk River, Lost River, Ankau Lagoon, Tsiu River, Itallo River, Yakutat Bay, and others.	12

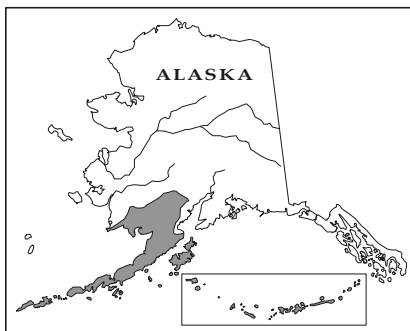
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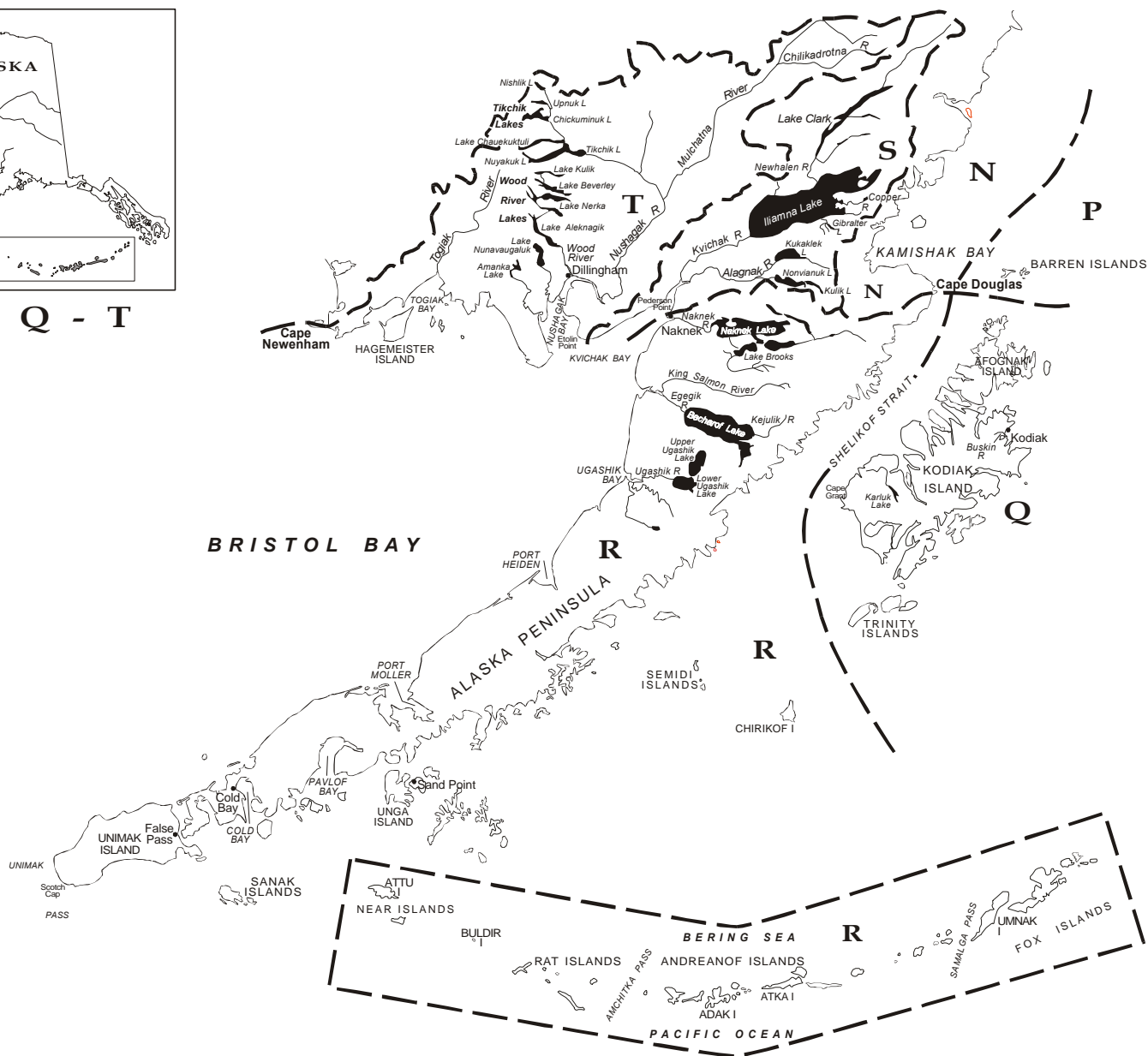
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SOUTHCENTRAL ALASKA SPORT FISH SURVEY AREAS		PAGE
J. PRINCE WILLIAM SOUND AREA	All saltwater and freshwater drainages from Cape Suckling on the east through Prince William Sound to Cape Puget (including Cape Suckling, as well as waters emptying into Point Bainbridge). Also included is 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. FISHING SITES: Valdez Bay; Passage Canal (Whittier); Eshamy and Shrode creeks; Eyak, Coghill, and Pigot rivers; Eshamy and Shrode lakes; and others.	12
K. KNIK ARM DRAINAGE AREA	All watersheds of the Matanuska River, Knik River, and Little Susitna River, as well as east-side drainages of the Susitna River from Cook Inlet north to, but not including, the Willow Creek drainage. Also Knik Arm west of the Anchorage municipal boundary and its drainages, including the Nancy Lake Recreation Area. Includes fish caught from the east bank of this portion of the Susitna River. FISHING SITES: Little Susitna River; Fish Creek area; Wasilla, Cottonwood, and Jim creeks; Wasilla, Finger, Lucille, Nancy and Big lakes; Kepler Lake complex; Eklutna power plant raceway; and others.	13
L. ANCHORAGE AREA	All marine and fresh waters bounded by the Eklutna River drainage on the north, the Chugach Mountains on the east, Knik Arm on the west, and Turnagain Arm to Ingram Creek (including Portage Creek and Placer River) on the south. FISHING SITES: Ship, Bird, Campbell, Portage, and Ingram creeks; Portage, Twentymile and Eagle rivers; Jewel, Campbell Point, Sand, Lower Fire, Mirror, Otter, Clunie, Gwen, Sixmile, Green, Hillberg, Triangle, C Street, Beach, Fish, and Cheney lakes; and others.	13
M. EAST-SIDE SUSITNA DRAINAGE AREA	All drainages of the Susitna River from its confluence with the Oshetna River downstream to its confluence with the Chulitna River near Talkeetna and including the Oshetna River drainage; all east-side drainages of the Susitna River from Talkeetna to, and including, Willow and Deception creeks on the south; and all east-side drainages of the Middle Fork of the Chulitna River, from near Summit to near Talkeetna. This includes all fish caught while fishing from the east bank of the Susitna and Chulitna rivers from Willow Creek north to near Summit. FISHING SITES: Summit Lake, Broad Pass Lakes, and other small lakes in the Summit area; and Willow, Deception, Caswell, Montana, Sunshine, Clear (Chunilna), Sheep, and Little Willow creeks. (Does not include Little Susitna River, see page 13, KNIK ARM DRAINAGE AREA.)	13
N. WEST-SIDE COOK INLET WEST-SIDE SUSITNA DRAINAGE AREA	All west-side drainages of the Susitna River, from its confluence with the Chulitna River near Talkeetna to Cook Inlet; all west-side drainages of the Chulitna River from Summit to its confluence with the Susitna, near Talkeetna; and all drainages emptying into Cook Inlet from the Susitna River to Cape Douglas and including Kamishak Bay and other associated salt water. This includes all fish caught while fishing from the west bank of the above river reaches. FISHING SITES: Deshka, Talachulitna, Chuitna, Theodore, and Lewis rivers; Alexander, Polly, and Lake creeks; Shell and Judd lakes; and others.	14
P. KENAI PENINSULA AREA	All fresh water and associated salt water of the Kenai Peninsula bounded on the north by Turnagain Arm and including the Granite Creek drainage; on the west by Cook Inlet and including Kalgin Island; and on the east by the Placer River drainage, Kenai Lake watershed, and waters flowing into the Gulf of Alaska west of Port Bainbridge (includes Resurrection Bay). FISHING SITES: Kenai, Anchor, Niniichik, Russian, and Kasilof rivers; Deep and Stariski creeks; Hidden Lake; Swanson River and Swan Lake Canoe systems; and others. (Includes the Barren Islands.)	14

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AREAS Q - T



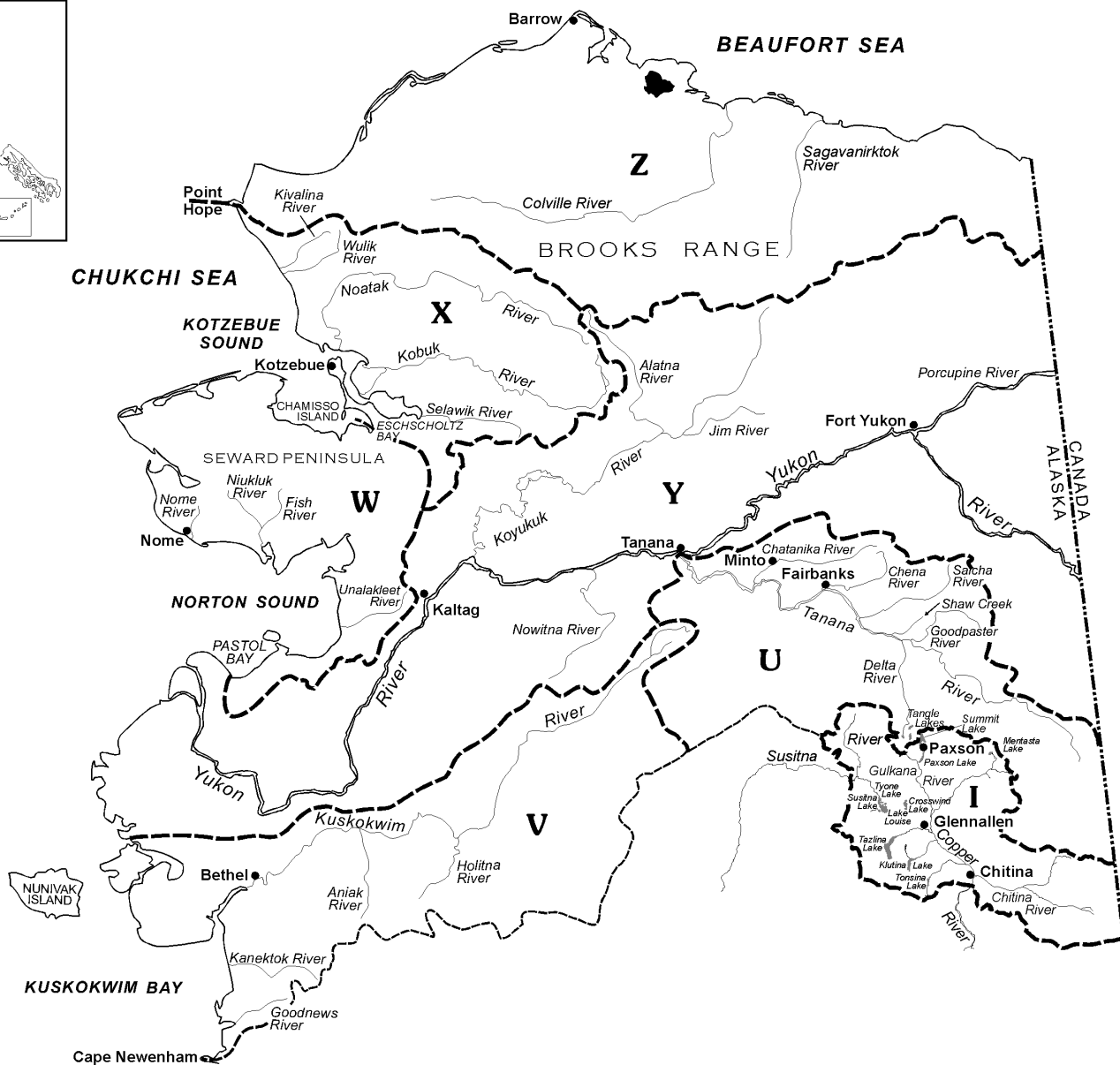
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SOUTHWESTERN ALASKA SPORT FISH SURVEY AREAS		PAGE
Q. KODIAK AREA	All marine and fresh waters within the Kodiak Island Borough boundary. This includes Afognak Island in the north and the Trinity Islands in the south. FISHING SITES: Buskin and Pasagshak rivers; Karluk River, Lake and Lagoon; and others. (Does NOT include the Barren Islands, see page 14, KENAI PENINSULA AREA).	15
R. NAKNEK DRAINAGES ALASKA PENINSULA AREA	All freshwater drainages of the Alaska Peninsula and the Aleutian Chain south of Cape Douglas and the Naknek watershed. Boundary waters are included as well as adjacent salt water and islands. FISHING SITES: Russel Creek (Cold Bay Area) Adak Island Area, Naknek River and Lake, Brooks River and Lake, Ugashik system, Becharof system, and other.	15
S. KVICHAK RIVER DRAINAGE AREA	All waters and tributaries of the Kvichak River watershed, including Nonvianuk Lake, Kukaklek Lake, Kulik Lake, Lake Iliamna, and Lake Clark. Also includes Kvichak Bay north of Naknek. FISHING SITES: Lower Talarik Creek; Copper, Newhalen, and Alagnak rivers; Gibraltar system; and others.	15
T. NUSHAGAK AREA	All waters and tributaries of the Nushagak River watershed, including the Mulchatna River drainage, the Wood River and Tikchik Lakes systems and waters westward to Cape Newenham. Includes adjacent salt water. FISHING SITES: Togiak River system, Chilikadrotna River, and others.	16

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**AREAS I
&
U - Z**



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ARCTIC-YUKON-KUSKOKWIM SPORT FISH SURVEY AREAS		PAGE
I. GLENNALLEN AREA	All waters and tributaries 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; also includes the upper Susitna River drainage from its confluence with the Oshetna River. Does not include the Oshetna River. FISHING SITES: Crosswind, Tyone, Van, Paxson, Summit, Strelna, Sculpin, Hudson, and Susitna lakes; Lake Louise; Gulkana River; and others (Does not include Tangle Lakes, see pages 16 and 17 TANANA RIVER AREA).	16
U. TANANA RIVER AREA	The Tanana River watershed. FISHING SITES: Chena, Chatanika, Salcha, Delta Clearwater, Richardson Clearwater, Goodpaster, and Delta rivers; Shaw Creek; Badger Slough; Birch, Quartz, George, Volkmar, Fielding, Tangle, and Chena lakes; Minto Flats; and others.	16-17
V. KUSKOKWIM RIVER AREA	The Kuskokwim River watershed. All waters flowing into Kuskokwim Bay; adjacent salt water from Cape Newenham north to the Naskonat Peninsula (north of Nelson Island), and Nunivak Island. This area does not include the Pastolik River, nor any portion of the Tanana River watershed or Yukon River watershed. FISHING SITES: Kanektok, Goodnews, Aniak, and Holitna rivers, and others.	17
W. SEWARD PENINSULA-NORTON SOUND AREA	All waters north of the Yukon River drainage, south of the Selawik River-Kotzebue Sound area, and west of the Yukon-Koyukuk river drainages. This area includes Pastol Bay and all salt water north and west of it in Norton Sound as well as salt water adjacent to the Seward Peninsula, including Spafarief Bay in Kotzebue Sound and the southern half of Eschscholtz Bay; and St. Lawrence Island. FISHING SITES: Unalakleet, Pilgrim, and Nome rivers; Fish-Niukluk river system; and others.	17
X. NORTHWEST ALASKA AREA	All waters and drainages of the Kotzebue area including drainages of the Selawik, Kobuk, Noatak, Wulik, and Kivalina rivers. All salt water in the northern half of Eschscholtz Bay, including Chamisso Island area, and the northern half of Kotzebue Sound to and including Point Hope.	18
Y. YUKON RIVER AREA	The Yukon River watershed. All drainages of the Yukon River (including the Alaska portion of the White River drainage in the Wrangell Mts.) from the south side of the Brooks Range to the Bering Sea, from Naskonat Peninsula north to Pastol Bay; from the Canadian border, including the Alaskan portion of the Fortymile and Sixtymile river drainages, west to the Bering Sea. This area excludes all portions of the Tanana and Kuskokwim river watersheds. FISHING SITES: Haul Road/Dalton Highway lakes and streams.	18
Z. NORTH SLOPE BROOKS RANGE AREA	All drainages north of the Brooks Range flowing into the Beaufort and Chukchi Seas, east of Point Hope and west of the Canadian border, including adjacent saltwater areas.	18

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SOUTHEAST ALASKA

AREA A KETCHIKAN AREA	AREA B PRINCE OF WALES ISLAND AREA	AREA C KAKE, PETERSBURG, WRANGELL, STIKINE AREA
<i>Saltwater</i>	<i>Saltwater</i>	<i>Saltwater</i>
<u>No.</u> <u>Site Name</u>	<u>No.</u> <u>Site Name</u>	<u>No.</u> <u>Site Name</u>
6 Bell Island	1008 Eastside Prince of Wales Island	728 Frederick Sound (near Petersburg)
730 Carroll Inlet	1010 Westside Prince of Wales Island	1 Terminal Harvest Area near Petersburg (in Wrangell Narrows)
2 Clarence Strait	736 Waterfall Bay	906 Remainder of Petersburg Area
1 East and West Behm Canals	1 Other Saltwater (Specify Site Names)	908 Wrangell Area
728 Mountain Point		910 Earl West Cove
3 Revillagigedo ("Revilla") Channel		776 Kake Area
4 Tongass Narrows		907 Petersburg Road System
5 Yes Bay		909 Wrangell Road System
7 Other Saltwater (Specify Site Names)		4 Other Saltwater (Specify Site Names)
<i>Freshwater</i>	<i>Freshwater</i>	<i>Freshwater</i>
<u>No.</u> <u>Site Name</u>	<u>No.</u> <u>Site Name</u>	<u>No.</u> <u>Site Name</u>
214 Ketchikan Creek	216 Big ("108") Creek	5 Blind Slough (in Wrangell Narrows)
200 McDonald Lake Drainage (incl. lake)	115 Black Bear Creek	9 Anan Creek
134 Humpback Creek	120 Eagle Creek	8 Castle River
9 Naha River	124 Harris River	202 Pat's Lake (Trout Lake)
165 Reflection Lake	3 Karta River	10 Petersburg Creek
180 Ward Lake	219 Kegan System (Stream, Lake)	175 Stikine River
10 Ward Cove Creek	5 Klawock River	216 Thoms Creek and Lake
111 Other Streams (Specify Site Names)	191 Salmon Bay Creek	112 Other Streams (Specify Site Names)
112 Other Lakes (Specify Site Names)	220 Sarkar System (Stream, Lake)	113 Other Lakes (Specify Site Names)
	158 Staney Creek	
	218 Sweetwater System (Stream, Lake)	
	217 Thome System (Stream, Lake)	
	108 Other Streams (Specify Site Names)	
	109 Other Lakes (Specify Site Names)	

Fish Size Categories
AREAS A, B, AND C KING SALMON
"Large" are 28 inches and over;
"Small" are under 28 inches.

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SOUTHEAST ALASKA

AREA D SITKA AREA	AREA E JUNEAU AREA	AREA F HAINES-SKAGWAY AREA
<i>Saltwater</i>	<i>Saltwater</i>	<i>Saltwater, Skagway Sub-Area</i>
<u>No. Site Name</u>	<u>No. Site Name</u>	<u>No. Site Name</u>
786 Crescent Bay (Sheldon Jackson Hatchery Area)	1 Doty Cove to Berners Bay and west to Point Retreat	700 Specify Site Names
11 Starrigavan Bay	758 Angoon Area	
13 Silver Bay	744 Sheep Creek Area	<i>Freshwater, Skagway Sub-Area</i>
724 Other Sitka Sound, incl. Vitskari Island	923 Auke Creek Mouth	<u>No. Site Name</u>
766 Salisbury Sound	939 Gastineau Hatchery (DIPAC)	11 Streams (Specify Site Names)
1 Other Saltwater (Specify Site Names)	3 Other Juneau Road System (includes Dupont to Echo Cove)	12 Lakes (Specify Site Names)
	2 Other Saltwater (Specify Site Names)	
<i>Freshwater</i>	<i>Freshwater</i>	<i>Saltwater, Haines Sub-Area</i>
<u>No. Site Name</u>	<u>No. Site Name</u>	<u>No. Site Name</u>
186 Baranof System (lake, stream)	143 Fish Creek (Douglas Island)	1 Specify Site Names
8 Eva Lake System (lake, stream)	175 Peterson Creek and Salt Chuck	
3 Plotnikof and Rezanof System (lake, stream)	211 Twin Lakes	<i>Freshwater, Haines Sub-Area</i>
14 Sitkoh System (lake, stream)	168 Montana Creek, including mouth	<u>No. Site Name</u>
148 Salmon Lake	213 Cowee Creek	130 Chilkat Lake
107 Other Streams (Specify Site Names)	6 Other Juneau Road System	5 Chilkoot Lake
110 Other Lakes (Specify Site Names)	9 Hasselborg Lake	135 Chilkat River (13-15 Mile Haines Hwy)
	11 Turner Lake	136 Chilkat River (Kelsall Landing Area)
	107 Other Streams (Specify Site Names)	107 Remainder of Chilkat River
	113 Other Lakes (Specify Site Names)	3 Chilkoot River
		108 Other Streams (Specify Site Names)
		109 Other Lakes (Specify Site Names)

Fish Size Categories
AREAS D, E, AND F KING SALMON
"Large" are 28 inches and over;
"Small" are under 28 inches.

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SOUTHEAST ALASKA

SOUTHCENTRAL ALASKA

AREA G

AREA H

AREA J

GLACIER BAY AREA

YAKUTAT AREA

PRINCE WILLIAM SOUND AREA

Saltwater

No. Site Name

- 730 Excursion Inlet
- 736 Glacier Bay
- 740 Gustavus Area
- 728 Icy Straits

- 1 Other Saltwater (Specify Site Names)

Freshwater

No. Site Name

- 105 Bartlett River
- 110 Salmon River
- 103 Other Streams (Specify Site Names)
- 104 Lakes (Specify Site Names)

Saltwater

No. Site Name

- 724 Yakutat Bay
- 1 Other Saltwater (Specify Site Names)

Freshwater

No. Site Name

- 136 Ankau System (River, Lagoon, Outlet)
- 135 East Alek River
- 117 Itallo River
- 120 Lost River
- 148 Situk River, above weir†
- 149 Situk River, below weir†
- 134 Tsiu River
- 104 Other Streams (Specify Site Names)
- 105 Lakes (Specify Site Names)

†The Situk weir is located near the river mouth approximately 1.5 miles above the Situk Landing

Saltwater

No. Site Name

- 804 Esther Island Area
- 728 Orca Inlet
- 2 Passage Canal (Whittier)
- 1 Valdez Arm/Bay (including Port Valdez)
- 727 Valdez Road System
- 3 Other Saltwater (Specify Site Names)

Freshwater

No. Site Name

- 114 Alaganik Slough
- 308 Clear Creek
- 7 Coghill River
- 5 Eyak River
- 307 Eshamy Lake, Creek, and Lagoon
- 222 Robe River Drainage
- 110 Other Streams (Specify Site Names)
- 113 Other Lakes (Specify Site Names)

Fish Size Categories

AREA G KING SALMON

“Large” are 28 inches and over. “Small” are under 28 inches.

AREA H KING SALMON

Saltwater

“Large” are 28 inches and over. “Small” are under 28 inches.

Freshwater

“Large” are 16 inches and over. “Small” are under 16 inches.

SOUTHCENTRAL ALASKA

AREA K KNIK ARM DRAINAGE AREA	AREA L ANCHORAGE AREA	AREA M EAST SIDE SUSITNA DRAINAGE AREA
<i>DIPNET FISHERY</i>	<i>Saltwater</i>	<i>Freshwater</i>
<u>No. Site Name</u> 9000 Fish Creek (Big Lake Drainage)	<u>No. Site Name</u> 1 Specify Site Names	<u>No. Site Name</u> 117 Birch Creek 5 Caswell Creek 138 Goose Creek 143 Kashwitna River 10 Little Willow Creek 6 Montana Creek 7 Sunshine Creek 9 Sheep Creek 169 Talkeetna River & tribs. incl Clear Creek 181 Troublesome Creek 4 Willow Creek 112 Other Streams (Specify Site Names) 111 Lakes (Specify Site Names)
<i>SPORT FISHERIES</i>	<i>Freshwater</i>	
<i>Saltwater</i>	<i>Anchorage Area Lakes</i>	
<u>No. Site Name</u> 1 Fish Creek Area (<i>Not</i> dipnetting) 2 Other (Specify Site Names)	<u>No. Site Name</u> 4 Campbell Point Lake 20 C Street Lake (Taku-Campbell Lake) 23 Cheney Lake 138 Delong Lake 3 Jewel Lake 5 Sand Lake	
<i>Freshwater</i>	<i>Elmendorf Air Force Base Lakes</i>	
<i>Nancy Lake Recreation Area</i>	<u>No. Site Name</u> 22 Fish Lake 12 Green Lake 13 Hillberg Lake 11 Sixmile Lake 19 Triangle Lake	
<u>No. Site Name</u> 243 Big Noluck Lake 242 Little Noluck Lake 13 Nancy Lake 241 South Rolly Lake 244 Other sites (within Recreation Area)	<i>Fort Richardson Lakes</i>	
<i>Remainder of Area K</i>	<u>No. Site Name</u> 9 Clunie Lake 10 Gwen Lake 8 Otter Lake	
<u>No. Site Name</u> 12 Big Lake 7 Cottonwood Creek 14 Eklutna Power Plant Raceway 9 Finger Lake 234 Fish Creek, Big Lake Drainage (<i>Not</i> dipnetting) 10 Kepler Lake Complex (Specify Site Names)* 5 Knik River and tributaries incl Jim Creek 4 Little Susitna River 11 Lucille Lake 159 Meadow Creek (Big Lake Drainage) 6 Wasilla Creek (Rabbit Slough) 8 Wasilla Lake 221 Long Lake (Mile 85 Glenn Hwy) 114 Other Streams (Specify Site Names) 115 Other Lakes (Specify Site Names)	<i>Other Area L Lakes</i>	
<i>*Kepler Complex consists of Bradley, Canoe, Echo, Irene, Kepler, Klaire, Matanuska, Silver, and Victor lakes, and Long Lake (catch and release).</i>	<u>No. Site Name</u> 21 Beach Lake 6 Lower Fire Lake 7 Mirror Lake 124 Other Lakes (Specify Site Names)	
	<i>Area L Streams</i>	
	<u>No. Site Name</u> 15 Bird Creek 16 Campbell Creek 18 Eagle River 218 Ingram Creek	<u>No. Site Name</u> 14 Ship Creek 17 Twentymile River 125 Other Streams (Specify Site Names)

SOUTHCENTRAL ALASKA

AREA N WEST COOK INLET - WEST SUSITNA DRAINAGE AREA	AREA P (PART 1 OF 2) KENAI PENINSULA AREA - See next column for Dipnet Fisheries & Shellfish Sites	AREA P (PART 2 OF 2) KENAI PENINSULA AREA - See previous column for Sport Fisheries
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Saltwater
No. Site Name
 16 Polly Creek Beach/Crescent River Bar
 966 Boat Sites North of Chinitna Point (Specify)
 946 Boat Sites South of Chinitna Point (Specify)

Freshwater
Susitna River Drainage Fishing Sites
No. Site Name
 347 Deshka River (Kroto Creek) above the weir*
 348 Deshka River (Kroto Creek) below the weir*
 4 Lake Creek
 171 Fish Lake Creek & Fish Lakes (Yentna Drainage)
 5 Alexander Creek/Lake
 7 Talachulitna River
 262 Trapper Lake
 331 Other Sites (Specify)

Susitna to North Forelands Fishing Sites
No. Site Name
 8 Chuitna River
 10 Lewis River
 9 Theodore River
 332 Other Sites (Specify)

South of North Forelands Fishing Sites
No. Site Name
 186 Kustatan River
 237 Silver Salmon Creek
 6 Polly Creek
 333 Other Sites (Specify)

**1 mile upstream from Lobs Homestead and 16 miles downstream of Neil Lake.*

SPORT FISHERIES
Saltwater
No. Site Name
 920 Anchor River, Whiskey Gulch, Deep Creek,
 and Ninilchik River Areas
 738 Tutka Bay
 734 Halibut Cove Lagoon
 822 Homer Spit (fishing from/near the spit)
 796 Other Kachemak Bay
 966 Barren Islands
 952 Other Cook Inlet/Gulf Coast -
 west of Gore Pt. (Specify)
 792 Resurrection Bay (Seward)
 954 Other Gulf Coast east of Gore Pt. (Specify)

Freshwater
No. Site Name
 5 Anchor River
 147 Crescent Lake
 7 Deep Creek
 12 Hidden Lake
 1 Kenai River - Cook Inlet to Soldotna Bridge
 2 Kenai River - Soldotna Bridge to Moose River
 3 Kenai River - Moose River to Skilak Outlet
 4 Kenai River - Skilak Inlet to Kenai Lake
 500 Kasilof River-Bank Fishing
 600 Kasilof River-Boat Fishing
 6 Ninilchik River
 218 Quartz Creek
 261 Resurrection Creek (near Hope)
 8 Stariski Creek
 9 Russian River †
 226 Sixmile Creek Drainage ††
 228 Skilak Lake
 334 Swanson River
 14 Swanson River Canoe Route Lakes
 15 Swan Lake Canoe System
 244 Tustumena Lake
 111 Other Streams (Specify Site Names)
 114 Other Lakes (Specify Site Names)

NET FISHERIES
No. Site Name
 9001 China Poot (dipnet)
 9002 Kenai River (dipnet)
 9003 Kasilof River (dipnet)
 9007 Kasilof River (gillnet)

SHELLFISH
No. Site Name
 797 Kachemak Bay
 793 Resurrection Bay
 999 CLAMS: Deep Creek Beach
 (Anchor River to Deep Creek)
 997 CLAMS: Ninilchik Beach
 (Deep Creek to set net access)**
 775 CLAMS: Clam Gulch Beach
 (Set net access to Kasilof River)**
 4 Other Sites (Specify)

****Set net access is a private road entering the beach approximately 10 miles north of Ninilchik and 8 miles south of the Clam Gulch Beach access road.**

†Include all fishing in the 1,800 yard section of the Kenai River immediately downstream from the Russian River.

††Including Sixmile, Granite, East Fork, and Canyon creeks.

SOUTHWEST ALASKA

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AREA Q KODIAK AREA

Saltwater

No. Site Name

- 814 Afognak Island Area
- 887 Afognak Lagoon (Litnik)
- 736 Chiniak Bay Area*
- 800 Shuyak Area
- 812 Paul's Bay
 - 1 Other Saltwater (Specify Site Names)

Freshwater

No. Site Name

- 114 American River
 - 3 Buskin River
 - 5 Karluk River and Lagoon
- 163 Olds River (or Creek)
 - 4 Pasagshak River
- 174 Red River (Ayakulik)
- 215 Saltry Cove Streams
- 108 Roadside Lakes (Specify Site Names)
- 106 Other Streams (Specify Site Names)
- 109 Other Lakes (Specify Site Names)

*Cape Chiniak to Monashka Bay

AREA R NAKNEK RIVER DRAINAGE - ALASKA PENINSULA AREA

Saltwater

No. Site Name

- 1 Cold Bay Area
- 756 Unalaska Bay Area
 - 3 Other Saltwater (Specify Site Names)

Freshwater

No. Site Name

- 281 Unalaska Bay Streams
- 182 American Creek
 - 12 Becharof System**
- 10 Brooks River
- 13 Brooks Lake
 - 5 Cold Bay Area (incl. Russel Creek)
- 130 Chignik River
- 275 Naknek River, upstream section†
- 279 Naknek River, downstream section††
 - 8 Naknek Lake - Bay of Islands
 - 9 Naknek Lake - Other
- 11 Ugashik System†††
- 113 Other Streams (Specify Site Names)
- 114 Other Lakes (Specify Site Names)

**Including Becharof Lake, Kejulik and Egegik Rivers, and Shosky Creek.

†From Rapids Camp 9 miles upstream to Naknek Lake outlet, including tributaries.

††From Rapids Camp downstream 19 miles to saltwater, including tributaries. Includes Naknek River near the community of King Salmon

†††Including Upper and Lower Ugashik lakes.

AREA S KVICHAK RIVER DRAINAGE AREA

Saltwater

No. Site Name

- 1 Specify Site Names
- 704 Kvichak Bay

Freshwater

No. Site Name

- 8 Alagnak (Branch) River
- 5 Copper River (Tributary of Iliamna Lake)
- 6 Gibraltar Lake
- 125 Iliamna Lake
 - 3 Kvichak River
- 4 Lower Talarik Creek
- 9 Lake Clark
- 7 Newhalen River
- 111 Other Streams (Specify Site Names)
- 110 Other Lakes (Specify Site Names)

Fish Size Categories
 AREA R and S KING SALMON
 "Large" are over 28 inches;
 "Small" are 28 inches and under.

SOUTHWEST ALASKA

ARCTIC-YUKON-KUSKOKWIM

AREA T NUSHAGAK AREA	AREA I GLENNALLEN AREA	AREA U (PART 1 OF 2) TANANA RIVER AREA
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Saltwater
No. Site Name
 1 Specify Site Names

Freshwater
No. Site Name
 188 Nushagak River-Black Point to outlet of Iowithla River*
 189 Nushagak River-Iowithla River to outlet of Mulchatna River*
 190 Nushagak River-upstream from mouth of Mulchatna River*
 3 Other Nushagak System (Specify)*
 8 Chilakadrotna River
 7 Mulchatna River
 5 Tikchik-Nuyakuk Lake System**
 6 Togiak River System†
 112 Lake Aleknagik
 111 Agulowak River
 128 Agulukpak River
 4 Other Wood River Lakes System††
 109 Other Streams (Specify Site Names)
 110 Other Lakes (Specify Site Names)

**Excluding Mulchatna, Nuyakuk, Iowithla, and Chilakadrotna rivers.*
***Including Nuyakuk, Tikchik, Chickuminuk, Nishlik, and Upnuk lakes, and Lake Chauekuktuli.*
†Including Togiak River-Lake drainage area.
††Including lakes Nerka, Beverly, and Kulik.

<p>Fish Size Categories AREA T KING SALMON "Large" are over 28 inches; "Small" are 28 inches and under.</p>

DIPNET FISHERY
No. Site Name
 9010 Copper River (near Chitina)

SPORT FISHERIES
Freshwater
No. Site Name
 8 Crosswind Lake
 1 Gulkana River (Paxson to Sourdough)
 15 Gulkana River (Sourdough to Highway)
 2 Gulkana River Other Fishing
 416 Klutina River
 10 Lake Louise***
 212 Mendeltna Creek
 397 Moose Lake (near Tolsona)
 13 Paxson Lake
 11 Susitna Lake
 14 Summit Lake (near Paxson)
 398 Tolsona Lake
 287 Tonsina River
 295 Tyone Creek
 12 Tyone Lake
 4 Van (Silver) Lake
 110 Other Streams (Specify Site Names)
 111 Other Lakes (Specify Site Names)

****Mile 160 Glenn Highway at the end of the Lake Louise Road.*

Freshwater Lakes and Ponds
No. Site Name
 9 Birch Lake
 347 Chena Hot Springs Road Ponds (ponds along the Chena Hot Springs Road, 30 to 50 mile)
 18 Chena Lake (lake only)
 584 Coal Mine Road Lakes (lakes accessible from the Coal Mine Road, mile 242 Richardson Hwy approximately 22 miles south of Delta Junction)
 408 Dune Lake
 163 East Twin Lake
 13 Fielding Lake
 11 George Lake
 189 Harding Lake
 201 Kooke Lake
 202 Lake Minchumina
 583 Meadow Road Lakes (lakes along the Meadow and Ridge roads in the southern part of Fort Greely Military Reservations, incl. Weasel Lake)
 10 Quartz Lake
 346 Steese Ponds (ponds along the Steese Highway from mile 30 to mile 40).
 12 Volkmar Lake

ARCTIC-YUKON-KUSKOKWIM

AREA U (PART 2 OF 2)	AREA V	AREA W
TANANA RIVER AREA	KUSKOKWIM AREA	SEWARD PENINSULA - NORTON SOUND AREA

Freshwater Streams
No. Site Name
 137 Brushkana Creek
 613 Lower Chatanika River & tributaries (downstream of Elliot Hwy)
 614 Upper Chatanika River & tributaries (upstream of Elliot Hwy)
 1 Chena River (Upper section)*
 2 Chena River (Lower section, incl Badger Slough)**
 6 Delta Clearwater River
 17 Delta River (below Tangle Lakes)
 8 Goodpaster River
 7 Richardson Clearwater River
 5 Salcha River
 16 Shaw Creek
 514 Tanana River, Lower
 (the mainstem Tanana River downstream from Nenana)
 515 Tanana River, Middle
 (the mainstem Tanana River between Delta Junction and Nenana)
 516 Tanana River, Upper
 (the mainstem Tanana River upstream from Delta Junction)

Freshwater, Other
No. Site Name
 14 Minto Flats (all lakes and rivers of Minto Flats)
 513 Nenana River Drainage (excluding Brushkana Creek)
 319 Piledriver Slough (including Moose Creek)
 15 Tangle Lakes and River†
 116 Other Streams (Specify Site Names)
 117 Other Lakes (Specify Site Names)

Saltwater
No. Site Name
 1 Specify Site Names

Freshwater
No. Site Name
 5 Aniak River
 6 Holitna River
 3 Kanektok River
 4 Goodnews River
 7 Other Streams (Specify)
 8 Lakes (Specify)

Saltwater
No. Site Name
 1 Specify Site Names

Freshwater
No. Site Name
 11 Eldorado River
 5 Fish-Niukluk River System††
 30 Flambeau River
 14 Fox River
 18 Kuzitrin River
 4 Nome River
 94 North River
 6 Pilgrim River
 41 Shaktoolik River
 22 Sinuk River
 12 Snake River
 15 Solomon River
 3 Unalakleet River
 7 Other Streams (Specify Site Names)
 8 Lakes (Specify Site Names)

††Including Paragon, Rathlatulik, Casadepaga, Niukluk, and Fish rivers, and Boston Creek.

**The Chena River and tributaries accessed from the Chena Hot Springs Road beyond 25 mile on the road. This section is a catch and release water for Arctic grayling. All Arctic grayling caught must be released.*
***The Chena River and tributaries from the mouth upstream to 25 mile Chena Hot Springs Road, including all parts of Badger Slough (sometimes called Chena Slough). This section is a catch and release water for Arctic grayling. All Arctic grayling caught must be released.*
 †Tangle Lakes include Long Tangle, Lower Tangle, Landlocked Tangle, Round Tangle, and Upper Tangle lakes.

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ARCTIC-YUKON-KUSKOKWIM

AREA X NORTHWEST ALASKA AREA	AREA Y YUKON RIVER AREA	AREA Z NORTH SLOPE BROOKS RANGE AREA
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Saltwater

No. Site Name
1 Specify Site Names

Freshwater

No. Site name
78 Desperation Lake
13 Feniak Lake
16 Kelly River
17 Kivalina River
4 Kobuk River
32 Matcharak Lake
3 Noatak River
24 Selawik River
27 Squirrel River
28 Walker Lake
5 Wulik River
6 Other Streams (Specify Site Names)
8 Other Lakes (Specify Site Names)

Saltwater

No. Site Name
1 Specify Site Names

Freshwater

Non-Yukon River Drainages

No. Site name
254 Specify Site Names

Yukon River Drainage, Downstream from Koyukuk River

No. Site name
147 Andreafsky River
148 Anvik River
182 Innoko River
74 Nulato River
247 Other Sites (Specify Site Names)*

Yukon River Drainage, Koyukuk River to Fort Yukon

No. Site name
94 Dall River
202 Beaver and Nome creeks
255 Birch Creek
16 Koyukuk River Drainage**
204 Nowitna River
24 Porcupine River Drainage
248 Other Sites (Specify Site Names)†

Remainder of Yukon River Drainage, Fort Yukon to Canadian Border

No. Site name
249 Other Sites (Specify Site Names)

**Remainder of Yukon River drainage downstream from the Koyukuk River.*

***Including Jim River, and Kanuti and Prospect drainages.*

†Other Koyukuk River to Fort Yukon sites.

Saltwater

No. Site Name
1 Specify Site Names

Freshwater

Lakes Near the Haul Road/Dalton Highway

No. Site Name
99 Lakes (Specify Site Names)

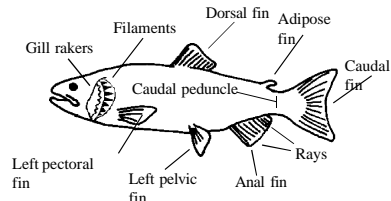
Streams Near the Haul Road/Dalton Highway

No. Site Name
14 Kongakut River
76 Sagavanirktok River
100 Other Streams (Specify)

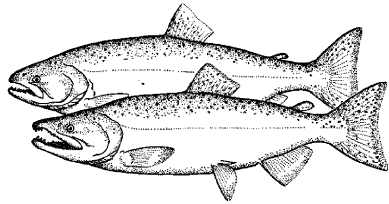
Remainder of Area Z Fishing Sites

No. Site Name
6 Other Streams (Specify)
5 Other Lake Sites (Specify)

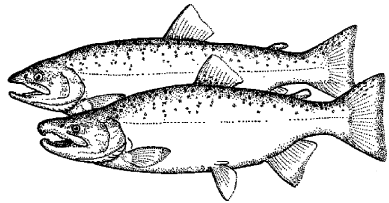
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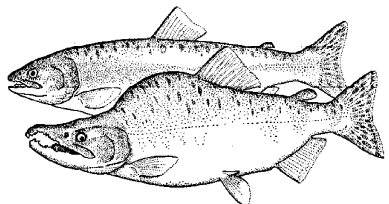
General Characteristics of Fish: cut away of operculum (gill-cover) showing one gill arch, filaments, and gill rakers.



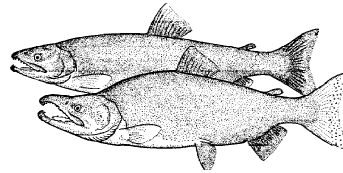
King (Chinook) Salmon: small black spots on back and on both lobes of caudal fin; gum line of lower jaw black; scales large; gill rakers less than 25; anal fin rays 15-17.



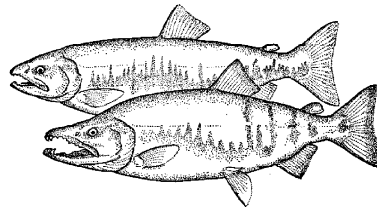
Silver (Coho) Salmon: small black spots usually occur only on upper lobe of caudal fin and on back; gum line on lower jaw not black; scales large; gill rakers less than 25; anal fin rays 13-15.



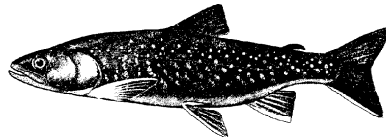
Pink (Humpback) Salmon: large oval black spots on back and on both lobes of caudal fin; scales very small; usually over 12 anal fin rays; males develop a pronounced hump during spawning.



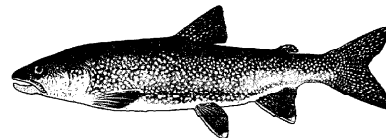
Sockeye (Red) Salmon and Kokanee (landlocked salmon): no distinct black spots on back or tail; 30-40 long, fine, and serrated, closely spaced gill rakers over 12 anal fin rays. NOTE: Kokanee should be recorded separately in the booklet.



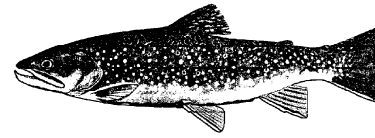
Chum (Dog) Salmon: no distinct black spots on back or tail; 18-28 smooth, short, stout, and widely spaced gill rakers; usually over 12 anal fin rays.



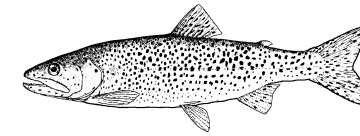
Dolly Varden/Arctic Char: round, red, pink or yellow spots on sides, caudal fin slightly forked; 8-12 anal fin rays; no dark green wavy marks on back or dorsal fin.



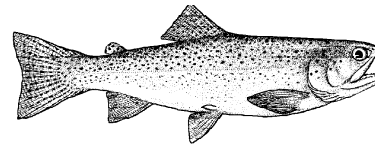
Lake Trout: body dark green to grayish with oval or irregular white to yellowish spots on sides and back; caudal fin deeply forked; 8-12 anal fin rays; no dark green wavy marks on back or dorsal fin.



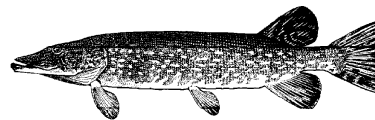
Brook Trout: spots on body pale or red with blue halos, but never brown or black; dark green wavy marks on back and dorsal fin; 8-12 anal fin rays.



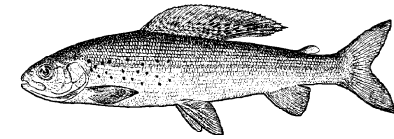
Cutthroat Trout: spots on body dark brown or black; anal fin rays 8-12; no red band on sides; red to orange slash on underside of lower jaw; upper jaw extends well behind eye in adults.



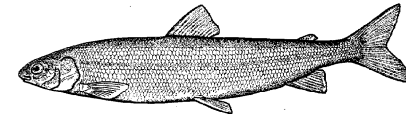
Rainbow Trout: spots on body dark brown or black; anal fin rays 8-12; reddish band on sides; no red slash under jaw; upper jaw usually does not extend behind eye in adults. NOTE: Steelhead are sea-run rainbows, and should be recorded separately in the booklet.



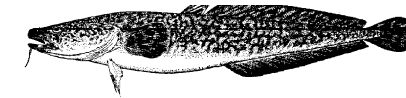
Northern Pike: dorsal and anal fins positioned rearward; no adipose fin as in the trouts, salmon, grayling and whitefish; long flattened jaws with large mouth and many large, sharp teeth, sides are yellowish-gray.



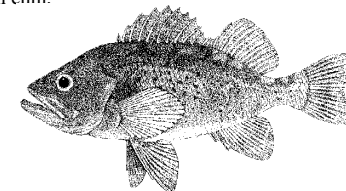
Arctic Grayling: dorsal fin typically with dark purple edge and much longer (18 or more rays) than in whitefish and fan-like; rows of reddish to orange and/or purple to green spots on dorsal fin; sides of fish are black spotted; scales larger than in trouts.



“Whitefish”: several common species that occur in Alaska are the round whitefish, humpback whitefish, least cisco, and sheefish. Whitefish are distinguished from the trout and salmon by the small, weak, or absent teeth and the presence of large scales; distinguished from the arctic grayling by the much smaller dorsal fin (15 or fewer rays). A round whitefish is shown.

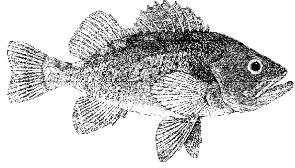


Burbot: two dorsal fins and one anal fin present; no adipose fin as in the trouts, salmon, grayling and whitefish; pelvic fins very far forward and just under head; body long and tapering; barbel on chin.

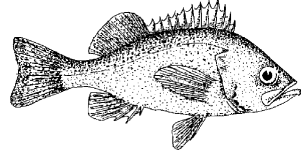


“Rockfish”: several species of marine fish also referred to as black bass, sea bass, and red snapper. Rockfish may be distinguished from sculpins (Irish Lords) by the dorsal fin, which has spines on the front half and soft rays on the rear half in the rockfish. NOTE: Handle with care because of spines.

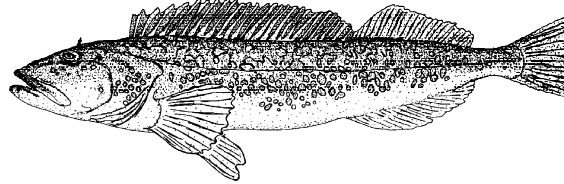
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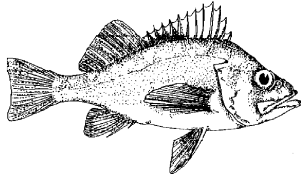
Black Rockfish: ("black bass") Black to blue-black with dusky white areas. Jaw extends to rear of eye. To 25 in.



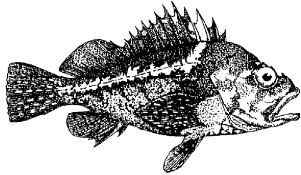
Dusky Rockfish: Color varies from dark brown or black to greenish-brown with pink underside. Dark fish have prominent knob on chin. To 20 in.



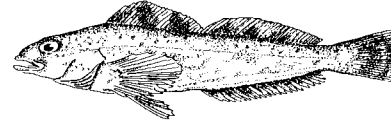
Lingcod: Brown to reddish-brown with spots or blotches. Sharp teeth. One lateral line. Long jaw. No barbel on chin. To 5 ft.



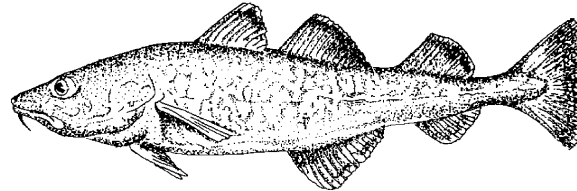
Canary Rockfish: Orange with greenish mottling. Lateral line is white to grey. To 30 in.



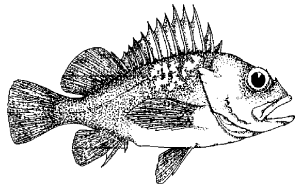
China Rockfish: Black with yellow spots. Yellow stripe from dorsal fin to rear of body. To 17 in.



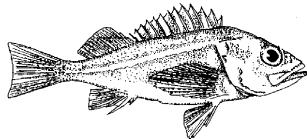
Kelp Greenling: Males brown with blue spots, females freckled with brown, 5 lateral lines. To 21 in.



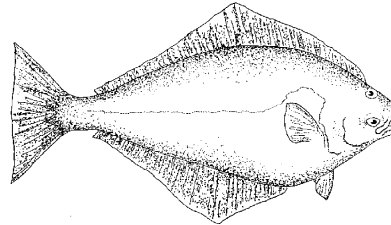
Pacific Cod: Chin barbel. Yellowish brown to gray with mottling. To 39 in.



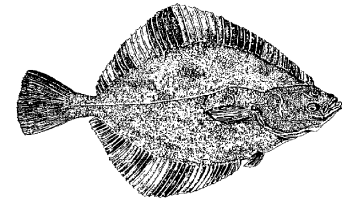
Quillback Rockfish: Black to brown with large orange areas. Dorsal fin notched deeply. To 24 in.



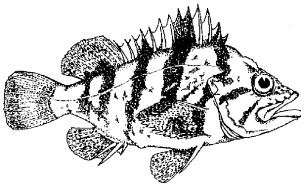
Redstripe Rockfish: Red lateral line in grey zone bordered by red. Lips dusky. To 20 in.



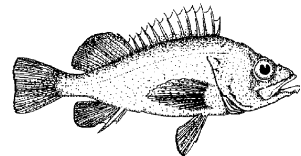
Halibut: Jaw extends below middle of eye. Lateral line arched over pectoral fin. To 8 ft.



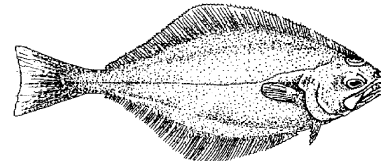
Starry Flounder: Black and yellow bands on fins. To 36 in.



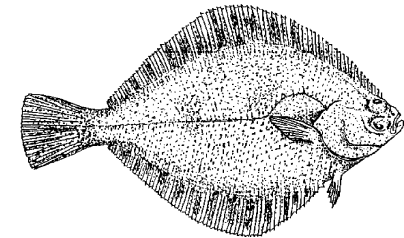
Tiger Rockfish: Black to dark red bars on pink red body. To 24 in.



Yelloweye Rockfish: ("red snapper") Primarily orange. Pale yellow stripe on body. Yellow eye. To 36 in.



Arrowtooth Flounder: Large mouth and numerous sharp teeth. Little arching of lateral line. Upper eye reaches top of head. To 34 in.



Rock Sole: Lateral line arched over pectoral fin. Jaw does not extend below middle of eye. To 24 in.