

**Fishery Data Series No. 01-7**

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**Targeted angler-days fished for selected Alaska sport fisheries, 1994 and 1995.**

by

**Allen L. Howe**

and

**Steve Fleischman**

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**April 2001**

**Alaska Department of Fish and Game**

**Division of Sport Fish**



## Symbols and Abbreviations

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

***FISHERY DATA SERIES NO. 01-7***

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FISHERIES, 1994 AND 1995.**

by  
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April 2001

This investigation was partially financed by the Federal Aid in Sport Fish Restoration Act (16 U.S.C. 777-777K) under Project F-10-10 and F-10-11, Job No. RT-2.

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*This document should be cited as:*

*Howe, A. L., and S. Fleischman. 2001. Targeted angler-days fished for selected Alaska sport fisheries, 1994 and 1995. Alaska Department of Fish and Game, Fishery Data Series No. 01-7, Anchorage.*

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## ABSTRACT

A mail survey was used to collect data on 1994 and 1995 Alaska fishery-specific angler-days fished. Such information would be useful to fishery managers for monitoring participation and for assessing project benefits. For some fisheries the estimated angler-days fished derived by this study aligned well with those available from other divisional studies; yet in other instances estimated angler-days from this study were substantially different (150-200% greater) from those obtained by other divisional studies. Such inconsistent results indicate possible respondent confusion with the survey instruments.

Key words: Alaska, recreation, sport, fish, fisheries, fishing, angler-days, survey.

## INTRODUCTION

The division has conducted an annual mail survey since 1977 that provides estimates of angler participation, catch, and harvest by location fished. While such information is useful to divisional fishery managers, they have also expressed a need for fishery-specific measures of participation (angler-days) to better monitor fishery growth and to assess benefits of projects. This study was undertaken to investigate use of a mail survey to obtain such fishery-specific estimates of angler participation.

## METHODS

The 1994 and 1995 questionnaires were nearly identical, except for a few changes to the specific fisheries included. The division's regional staff provided the specific fisheries included in the questionnaire. The multi-page questionnaire included maps and area descriptions, as well as "grids" for entering household days fished by fishery. Each household was asked for information on composition of the angling household, as well as fishery-specific household days fished. The Alaska sportfishing areas used for this study are delineated in Appendix A1 and Appendix A2. An example of the 1995 questionnaire is included (Appendix A3).

The 1994 questionnaires were mailed to a stratified random sample of 15,000 households containing at least one individual who purchased a 1994 sportfishing license or at least one individual who possessed either a

valid permanent identification card (PID) or a disabled veteran card (DAV) for Alaska sport fishing. The 1995 questionnaires were mailed to a stratified random sample of 15,000 such households. 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.

Total participation (angler-days fished) for each fishery 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:

- $y_{hijk}$  = participation at the  $k^{\text{th}}$  site by the  $j^{\text{th}}$  household responding to the  $i^{\text{th}}$  mailing for the  $h^{\text{th}}$  stratum;
- $n_{hi}$  = number of households responding to the  $i^{\text{th}}$  mailing for the  $h^{\text{th}}$  stratum;
- $\hat{N}_h$  = estimated number of households with at least one fishing license holder in 1994 (or 1995) for the  $h^{\text{th}}$  stratum  
 $= \hat{N}_h = (M_h + P_h) \hat{V}_h$ ; (2)
- $M_h$  = number of license holders residing in stratum  $h$  in 1994 (or 1995);
- $P_h$  = equals the total number of individuals with either (1) a PID issued during 1988 through 1993 (or 1994), (2) a PID issued in 1994 (or 1995) 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:

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

$n_{hi}^{\dagger}$  = the number of respondents (Appendices A4) to the  $i^{\text{th}}$  mailing for the  $h^{\text{th}}$  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  $j^{\text{th}}$  household for the  $i^{\text{th}}$  mailing for the  $h^{\text{th}}$  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  $j^{\text{th}}$  household for the  $i^{\text{th}}$  mailing for the  $h^{\text{th}}$  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  $i = 1, 2, 3$ ;

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

for  $i = 1, 2, 3$ ;

where:

$r_{hi}$  = mean participation over all sites by respondents to the  $i^{\text{th}}$  mailing for stratum  $h$ ;

And  $\varepsilon_{nhi}$  and  $\varepsilon_{rhi}$  are normal variates with mean 0 and variance  $\sigma_{nh}^2$  and  $\sigma_{rh}^2$ , respectively.

Parameters  $\alpha_{nh}$ ,  $\alpha_{rh}$ ,  $\beta_{nh}$ , and  $\beta_{rh}$  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 simulated number of responses per mailing was less than  $10^{-7}$ , and where:

$$\begin{aligned} \hat{n}_{hi} &= \text{Estimated number of households responding to the } i^{\text{th}} \text{ simulated mailing, for } \\ & i = 4, 5, \dots, I, \text{ for stratum } h \\ &= e^{(\alpha_{nh} + \beta_{nh}i)}; \end{aligned} \quad (7)$$

$n_h$  = 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:

$$\theta_h = \frac{\sum_{i=1}^3 n_{hi}}{n'_h} \quad (9)$$

$n'_h$  = the number of surveys mailed to households from residential stratum  $h$

$Y_{rsh}$  = the reported levels of participation 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



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

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

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

Standard errors for participation estimates were calculated using a bootstrap resampling procedure (Efron and Tibshirani 1993) with 200 replications.

## RESULTS

The response rate was 53.7% and 50.0% for 1994 and 1995, respectively (Appendix A4). Estimated angler-days fished by fishery, SEs, and number of responses is included in Appendix B. Totals are presented for locations, but these estimates could double-count calendar days if anglers fished more than one fishery on the same day.

No comparable estimates by fishery were available for comparison with estimates produced by this study. The division's statewide harvest survey (swhs) project provides estimates of angler-days fished by location. Because anglers might fish multiple species at the same location on the same day, the sum of angler-days fished for all species at a location should equal or exceed estimates from the swhs project. Only in those instances where fisheries at a location were separated in time would the sum of angler-days fished by fishery be truly comparable to estimates of total days fished at a location from the swhs project. This separation of fisheries in time could occur in two ways: seasonal fishing as in open-water and ice fishing at a location; and run timing that separates species, such as chinook salmon and coho salmon.

Table 1 presents for selected locations estimated 1994 targeted days fished that should be comparable to total days fished from the swhs project. Similar comparisons could not be made for the 1995 results because of a problem with estimation procedures for the 1995 swhs estimates of angler-days fished. That problem, related to non-application of nonresponse bias correction factors, cannot be corrected and thus swhs estimates for 1995 cannot be recalculated.

For 1994 the Little Susitna River chinook salmon days fished plus coho salmon days fished total over 79,000 or about 175% of the swhs days fished for all Little Susitna River fishing. At Bird Creek there is some overlap in the pink salmon and coho salmon fisheries, which could result in double-counting days fished by adding targeted days fished across species. Yet the coho salmon days fished (18,943) alone is 153% of the total swhs days fished for Bird Creek. While at Campbell Creek the coho salmon fishery was expected to yield more effort than other fisheries, it alone represents 156% of the swhs days fished for the creek. A similar and more extreme pattern occurred at Ship Creek. Although there is essentially no overlap in the chinook salmon and coho salmon fisheries, the sum of targeted days fished represents nearly 200% of the swhs days fished for Ship Creek. The Russian River primarily attracts sockeye salmon anglers and to a much less extent anglers seeking other species, such as rainbow trout and coho salmon. Yet the targeted days fished for sockeye salmon was 155% of the swhs total days fished for the entire river's sportfishing. Staff comments indicated that the sockeye salmon fishery and other fisheries in the Kvichak River are separated in time, yet the total targeted days fished for this location was nearly 200% of the swhs estimate. The Newhalen River sockeye salmon and other fisheries would also be separated in time and

the targeted effort was only about 102% of the swhs estimate of days fished. For Birch Lake and the Salcha River targeted days fished for ice fishing and open water fishing were estimated. At Birch Lake the total of open water and ice fishing days fished equaled about 160% of the swhs days fished; for the Salcha River this relationship was 112%.

## DISCUSSION

There was no clear consensus from staff on estimates of fishery-specific days fished provided by this study. Comparisons for those fisheries expected to match well with the annual swhs estimates of days fished were in most cases poor. Three examples of the problem are found for the Little Susitna River, Ship Creek, and the Russian River (Table 1). The chinook salmon and coho salmon fisheries in the Little Susitna River and Ship Creek are separated by time (i.e., the Chinook run and coho runs do not overlap). Thus the sum of the targeted days fished for these two species in the Little Susitna River and Ship Creek should be similar to the estimated swhs days fished. The sum of Ship Creek chinook salmon and coho salmon targeted days fished was nearly 200% of the swhs estimates of days fished; and the sum of Little Susitna River chinook salmon and coho salmon targeted days fished was nearly 175% of the swhs estimates of days fished. The Russian River fishery for sockeye salmon was divided into two components based on date (i.e., on or before 6/21 and after 6/21). The sum of targeted days fished for these two components was 155% of the swhs estimates of days fished (Table 1).

In other instances targeted effort was often 150-200% of the swhs effort estimates, yet a few estimates corresponded well. While lacking any statistical rigor, these comparisons do little to bolster confidence in the estimates of fishery-specific effort.

Project staff also relied on feedback from other divisional staff as to whether estimates were realistic either in an absolute or relative sense. Comments from Arctic-Yukon-Kuskokwim staff indicated that the proportion of days fished in Piledriver Slough for Arctic grayling and rainbow trout matched creel survey information and "intuition", that precision of estimates was relatively good, yet there was concern that about 40% of the estimates for their fisheries were based on 10 or fewer responses. Concerns were also expressed about the specific fisheries selected. Staff also noted some of the problems depicted in Table 1.

Southcentral staff comments also highlighted some of the problems presented in Table 1, as well as others. Concerns were expressed about the specific fisheries selected. Estimates for rockfish and lingcod effort seemed extreme. On-site survey projects indicate that few anglers target rockfish or lingcod, but typically fish for them only when they can't catch Pacific halibut.

Yet other comments staff made during review of the estimates indicate that the present needs are not the same as those when this study was initiated. Clearly, delayed completion of this study due to lack of funding for analysis and reporting has limited the usefulness of the results.

- Although regional leaders selected specific fisheries included in the original surveys, staff in those regions today would not have selected the same set of fisheries and thus some information was not immediately useful.
- Some staff indicated that fishery-specific estimates of angler-trips would be useful, but estimates of angler-days fished would not be useful. Again it seems the passage of time has resulted in different needs than those at the time the study was implemented.

- Problems with the 1995 swhs project estimates of angler effort, which can't be corrected, limit comparisons with estimates from this study.
- Those fisheries for which there should be a reasonable comparison with swhs estimates did not always compare well. This raises a degree of uncertainty and leaves unanswered questions about remaining estimates.

Sufficient questions about the results exist such that the basic approach to collecting targeted effort should be refined before conducting a similar study in the future.

## LITERATURE CITED

- Beers, D. E. 1995. Harvest estimate for the Gastineau Hatchery Roadside Sport Fishery in Juneau, Alaska during 1994. Alaska Department of Fish and Game, Fishery Data Series No. 95-25, Anchorage.
- Draper, N. R. and H. Smith. 1981. Applied regression analysis, second edition. John Wiley and Sons, New York, New York.
- Efron, B., and R. J. Tibshirani. 1993. An introduction to the bootstrap. Chapman and Hall, New York.
- Frenette, B. J. 1999. Harvest estimate for the Gastineau Hatchery roadside sport fishery in Juneau, Alaska during 1998. Alaska Department of Fish and Game, Fishery Data Series No. 99-16, Anchorage.
- Gradshcheyn, I. S. and I. M. Ryzhik. 1980. Table of integrals, series, and products, corrected and enlarged edition. Academic Press, Orlando, Florida.
- Howe, A. L., G. Fidler, and M. J. Mills. 1995. Harvest, catch, and participation in Alaska sport fisheries during 1994. Alaska Department of Fish and Game, Fishery Data Series No. 95-24, Anchorage.
- Hubartt, D. J., A. E. Bingham, and P. M. Suchanek. 1999. Harvest estimates for selected marine sport fisheries in Southeast Alaska during 1998. Alaska Department of Fish and Game, Fishery Data Series No. 99-15, Anchorage.
- Marsh, L. E. 1999. Angler effort and harvest of chinook salmon by the recreational fisheries in the Lower Kenai River, 1998. Alaska Department of Fish and Game, Fishery Data Series No. 99-4, Anchorage.
- Mills, M. J. and A. Howe. 1992. An evaluation of estimates of sport fish harvest from the Alaska statewide mail survey. Alaska Department of Fish and Game, Special Publication No. 92-2, Anchorage.

Hopefully future studies will be fully funded at the outset to ensure results are timely.

## ACKNOWLEDGMENTS

We thank other RTS and division staff for assistance with survey implementation, data processing, and review of preliminary estimates. We also thank the angling public for participating in the survey and for its funding (through payment of state license fees and through payment of excise taxes collected pursuant to the Federal Aid in Sport Fish Restoration Act).

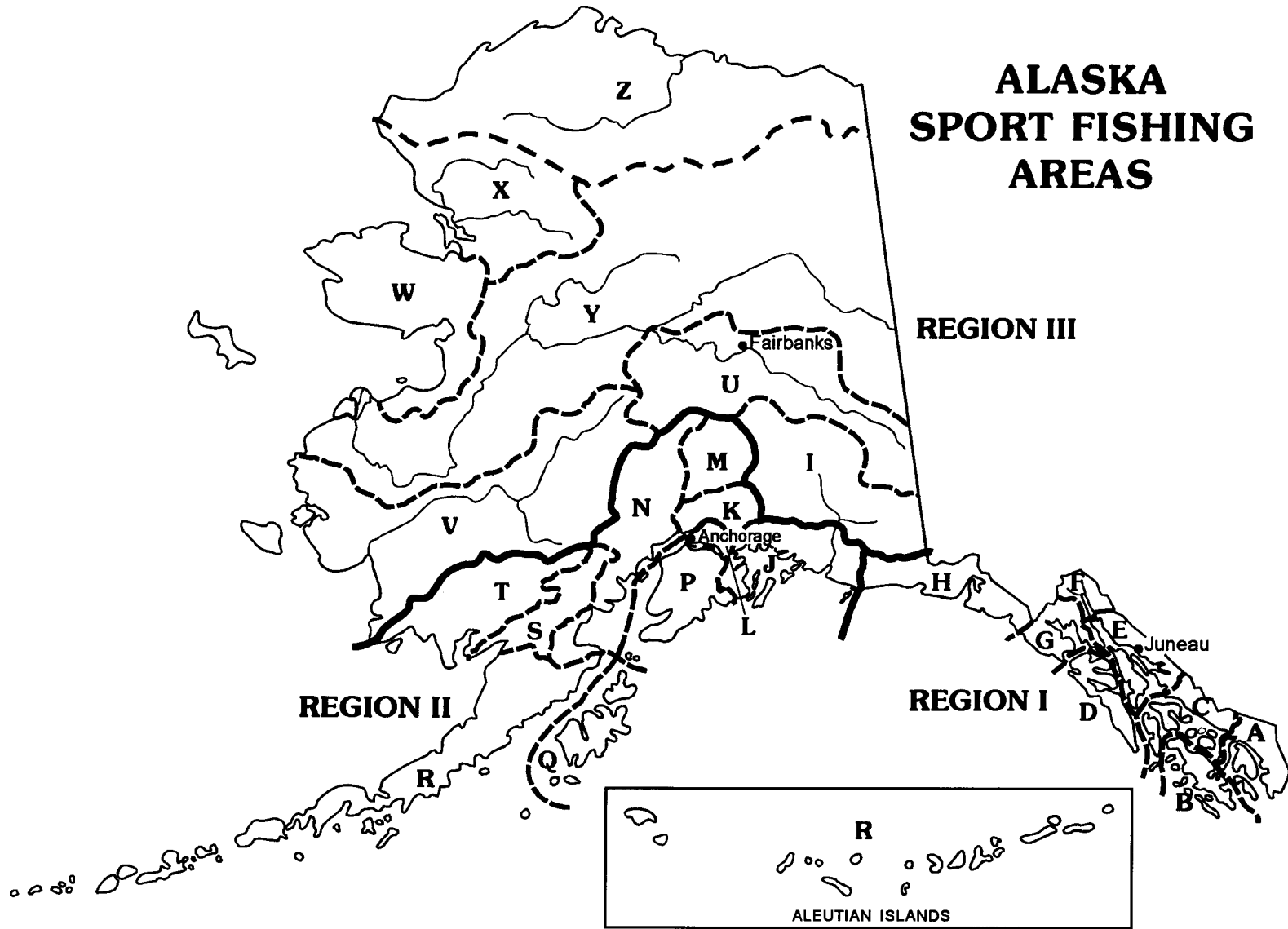
**Table 1.-Comparison of fishery specific and total days fished for selected Alaska locations.**

Location	Fishery	Targeted Days Fished <sup>a</sup>	Total Days Fished <sup>b</sup>
Little Susitna River	Chinook salmon	38,407	
	Coho salmon	40,604	
	Other	12,346	
	Total	91,356	45,149
Bird Creek	Pink salmon	10,572	
	Coho salmon	18,943	
	Other	3,440	
	Total	32,995	12,357
Campbell Creek	Coho salmon	12,522	
	Other	4,494	
	Total	17,017	8,036
Ship Creek	Chinook salmon	59,138	
	Coho salmon	21,554	
	Other	3,381	
	Total	84,073	40,727
Russian River	Sockeye salmon on or before 6/21	33,537	
	Sockeye salmon after 6/21	68,750	
	Other	13,938	
	Total	116,226	65,996
Kvichak River	Sockeye salmon	4,087	
	Other	7,414	
	Total	11,501	5,796
Newhalen River	Sockeye salmon	4,700	
	Other	1,193	
	Total	5,893	5,790
Birch Lake	Ice fishing all species	5,392	
	Open water fishing all species	10,414	
	Total	15,805	9,880
Salcha River	Ice fishing all species	2,164	
	Open water fishing all species	6,407	
	Total	8,571	7,653

a From: this study.

b From: Howe, et al 1995.

## **APPENDIX A. MAPS, AREAS, AND QUESTIONNAIRES**



**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 Brooks Range Drainages

**ALASKA SPORT FISHING  
USE SURVEY**  
Alaska Department of Fish and Game  
Division of Sport Fish

Dear Alaska Angler:

We have not yet received your completed 1995 Alaska Sport Fishing questionnaire. Even if you did not fish in Alaska during 1995, your responses to the General Questions on page 3 are important. Please complete the enclosed questionnaire and return it in the postage-paid envelope 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 the 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

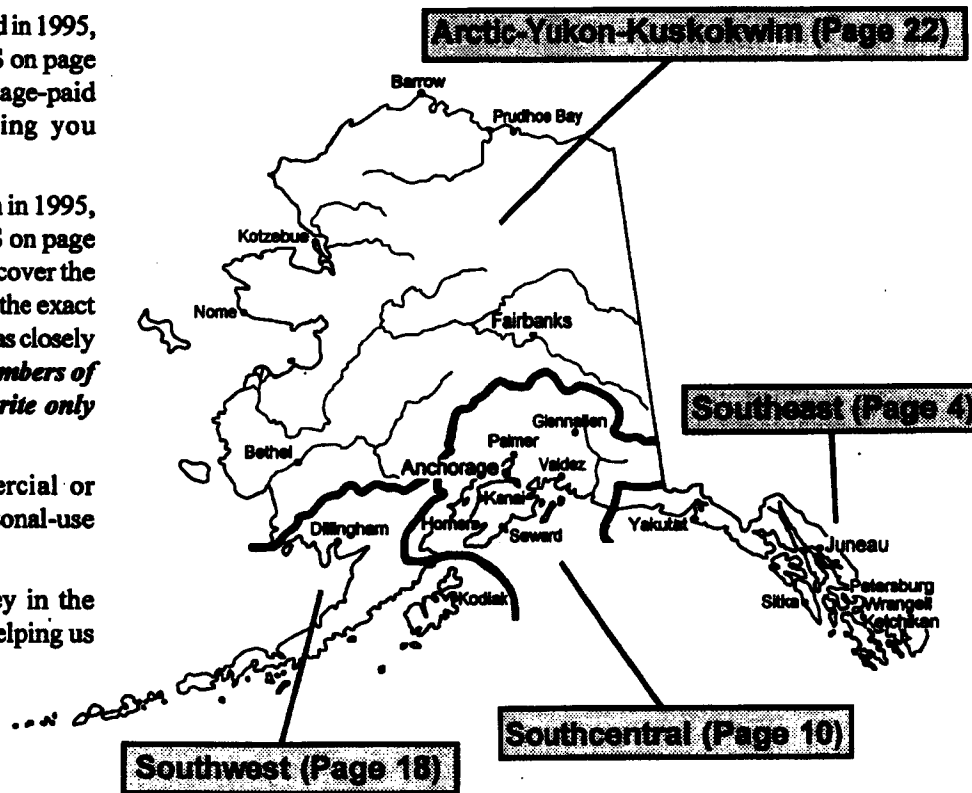


Appendix A3.-Example of the 1995 survey instrument.



## INSTRUCTIONS:

1. Questions apply to the January 1 to December 31, 1995 period. Return this form after your household has completed all 1995 sport fishing.
2. Questions apply only to yourself and those people living in your home. Do NOT include visiting relatives or friends.
3. If more than one member of your household received a survey, complete only one, but to avoid being sent additional forms, please return all copies.
4. If no members of your household fished in 1995, answer the GENERAL QUESTIONS on page 3 and return the survey in the postage-paid envelope so we may avoid mailing you additional surveys this year.
5. If members of your household did fish in 1995, answer the GENERAL QUESTIONS on page 3 and then complete the pages which cover the areas fished. If you cannot remember the exact number of days fished, please estimate as closely as you can. *Please do not include numbers of fish caught or kept on this form; write only the days fished.*
6. Do not include time spent commercial or subsistence fishing. Do include personal-use dipnetting where requested.
7. Please return your completed survey in the postage-paid envelope. Thanks for helping us help you.



**GENERAL QUESTIONS:**

The questions below apply to members of your household and the 1995 sport fishing season.

**NO LICENSE PURCHASED**

- 1A. Number of persons under 16 years of age who sport fished. .... ?
- 1B. Number of Alaska residents 60 years of age and older who have a permanent identification card for Alaska sport fishing, including those who did not fish ..... ?
- 1C. Number of persons recorded in 1B who did sport fish..... ?

**LICENSE PURCHASED**

- 2A. Number of persons who purchased a sport fishing license, including those who did not fish (DO NOT include anyone recorded in 1A, 1B, or 1C above)..... ?
- 2B. Number of persons recorded in 2A who did sport fish ..... ?
- 3. Please provide comments on sport fishing in Alaska during 1995 and your suggestions on how to improve it in the future.

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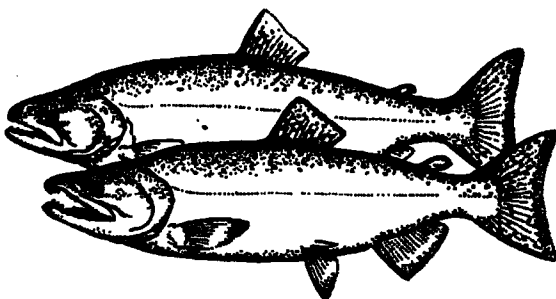
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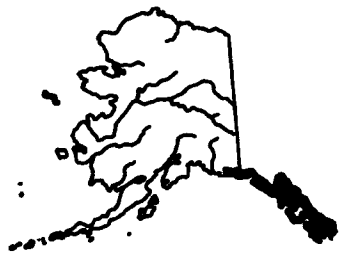
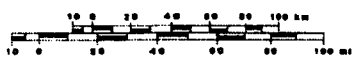


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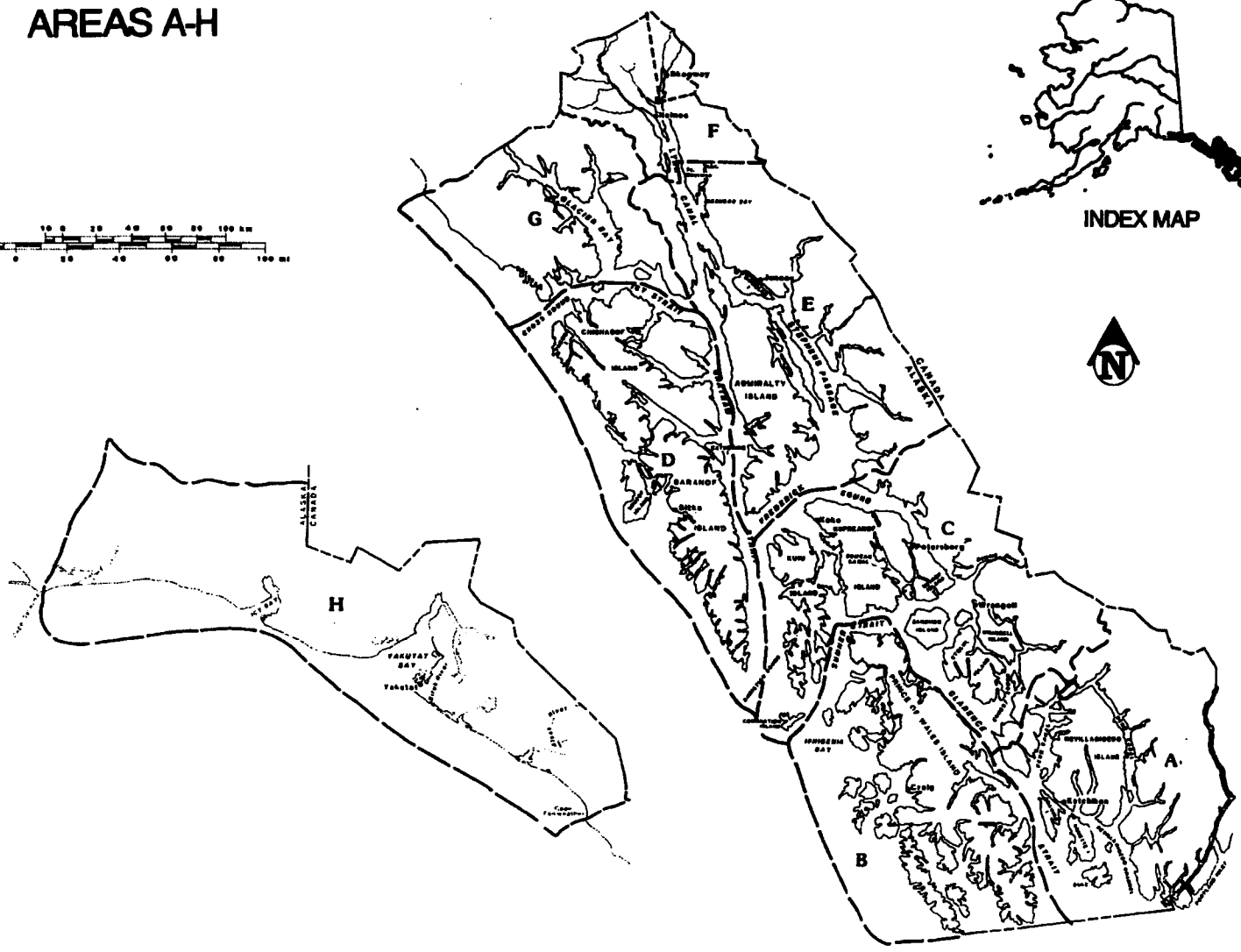


Please do not write in the grid.


AREAS A-H



INDEX MAP



**SOUTHEAST ALASKA SPORT FISH SURVEY AREAS**

Area	Page
<b>A. KETCHIKAN AREA</b> .....	6
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.	
<b>B. PRINCE OF WALES AREA</b> .....	6
All 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 Forester Island in the south and Warren Island in the north.)	
<b>C. KAKE, PETERSBURG, WRANGELL, STIKINE AREA</b> .....	7
All 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.	
<b>D. SITKA AREA</b> .....	7
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.	
<b>E. JUNEAU AREA</b> .....	8
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.	
<b>F. HAINES-SKAGWAY AREA</b> .....	8
All Alaska marine and fresh waters north of 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 north and east of this National Monument boundary to the Canadian border. The area does not include Pt. Sherman.	
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.	
<b>G. GLACIER BAY AREA</b> .....	9
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.	
<b>H. YAKUTAT AREA</b> .....	9
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.	

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**FOR EACH LISTED FISHERY:**

- Write the number of days sport fished by members of your household during 1995.
- Write "CHARTER OR GUIDED FISHING" days fished separately from "OTHER FISHING" days fished.
- Count any part day fished as one whole day (e.g., two anglers each fishing any part of one day is two days fished).
- Do not include time spent commercial or subsistence fishing. Do include personal-use fishing where requested.
- If members of your household fished in more than one listed fishery in the same day, count that day in each fishery.

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A. KETCHIKAN AREA*		DAYS FISHED			
Fishery		Charter or Guided Fishing		Other Fishing	
		Fresh-water	Salt-water	Fresh-water	Salt-water
1	Chinook salmon				
2	Silver salmon				
3	Red salmon				
4	Pink salmon				
5	Chum salmon				
6	Dolly Varden				
7	Cutthroat trout				
8	Steelhead/rainbow trout				
9	Halibut				
10	Rockfish				
11	Lingcod				
12	Other Area A finfish sport fishing				
13	King crab personal use				
14	Dungeness crab				
15	Other Area A shellfish				

\* See the map on page 4. All Alaska waters and drainages of the Unak River and East Behm Canal south to the Proposed International Boundary line and east of a line bisecting Clarence Strait to the Canadian border.

B. PRINCE OF WALLS ISLAND AREA*		DAYS FISHED			
Fishery		Charter or Guided Fishing		Other Fishing	
		Fresh-water	Salt-water	Fresh-water	Salt-water
1	Chinook salmon				
2	Silver salmon				
3	Red salmon				
4	Pink salmon				
5	Chum salmon				
6	Dolly Varden				
7	Cutthroat trout				
8	Steelhead/rainbow trout				
9	Halibut				
10	Rockfish				
11	Lingcod				
12	Other Area B finfish sport fishing				
13	King crab personal use				
14	Dungeness crab				
15	Other Area B shellfish				

\* See the map on page 4. All 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 Forester Island in the south and Warren Island in the north.)

**FOR EACH LISTED FISHERY:**

- Write the number of days sport fished by members of your household during 1995.
- Write "CHARTER OR GUIDED FISHING" days fished separately from "OTHER FISHING" days fished.
- Count any part day fished as one whole day (e.g., two anglers each fishing any part of one day is two days fished).
- Do not include time spent commercial or subsistence fishing. Do include personal-use fishing where requested.
- If members of your household fished in more than one listed fishery in the same day, count that day in each fishery.

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C KAKE PETERSBURG WRANCELL SITKA NE AREA*		DAYS FISHED			
Fishery		Charter or Guided Fishing		Other Fishing	
		Fresh water	Salt water	Fresh water	Salt water
		1	Chinook salmon		
2	Silver salmon				
3	Red salmon				
4	Pink salmon				
5	Chum salmon				
6	Dolly Varden				
7	Cutthroat trout				
8	Steelhead/rainbow trout				
9	Halibut				
10	Rockfish				
11	Lingcod				
12	Other Area C finfish sport fishing				
13	King crab personal use				
14	Dungeness crab				
15	Other Area C shellfish				

\* See the map on page 4. All Alaska waters, including freshwater drainages, bounded by a line from Ernest Sound east through Bradford 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 Fannhaw 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.

D SITKA AREA*		DAYS FISHED			
Fishery		Charter or Guided Fishing		Other Fishing	
		Fresh water	Salt water	Fresh water	Salt water
		1	Chinook salmon		
2	Silver salmon				
3	Red salmon				
4	Pink salmon				
5	Chum salmon				
6	Dolly Varden				
7	Cutthroat trout				
8	Steelhead/rainbow trout				
9	Halibut				
10	Rockfish				
11	Lingcod				
12	Other Area D finfish sport fishing				
13	King crab personal use				
14	Dungeness crab				
15	Other Area D shellfish				

\* See the map on page 4. All Alaska marines 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.

**FOR EACH LISTED FISHERY:**

- Write the number of days sport fished by members of your household during 1995.
- Write "CHARTER OR GUIDED FISHING" days fished separately from "OTHER FISHING" days fished.
- Count any part day fished as one whole day (e.g., two anglers each fishing any part of one day is two days fished).
- Do not include time spent commercial or subsistence fishing. Do include personal-use fishing where requested.
- If members of your household fished in more than one listed fishery in the same day, count that day in each fishery.

E JUNEAU AREA*		DAYS FISHED			
Fishery		Charter or Guided Fishing		Other Fishing	
		Fresh-water	Salt-water	Fresh-water	Salt-water
1	Chinook salmon				
2	Silver salmon				
3	Red salmon				
4	Pink salmon				
5	Chum salmon				
6	Dolly Varden				
7	Cutthroat trout				
8	Steelhead/rainbow trout				
9	Halibut				
10	Rockfish				
11	Lingcod				
12	Other Area E finfish sport fishing				
13	King crab personal use				
14	Dungeness crab				
15	Other Area E shellfish				

\* See the map on page 4. All Alaska marine and fresh waters bounded on the south by a line from the Canadian border west through Cape Fawcett 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 Neesbrode (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. Couvaden to Frederick Sound.

F HAINE'S SKAGWAY AREA*		DAYS FISHED			
Fishery		Charter or Guided Fishing		Other Fishing	
		Fresh-water	Salt-water	Fresh-water	Salt-water
1	Chinook salmon				
2	Silver salmon				
3	Red salmon				
4	Pink salmon				
5	Chum salmon				
6	Dolly Varden				
7	Cutthroat trout				
8	Steelhead/rainbow trout				
9	Halibut				
10	Rockfish				
11	Lingcod				
12	Other Area F finfish sport fishing				
13	King crab personal use				
14	Dungeness crab				
15	Other Area F shellfish				

\* See the map on page 4. All Alaska marine and fresh waters north of the Haines Borough/Juneau City and Borough boundary from Mount Neesbrode (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 north and east of this National Monument boundary to the Canadian border. The area does not include Pt. Sherman.

**FOR EACH LISTED FISHERY:**

- Write the number of days sport fished by members of your household during 1995.
- Write "CHARTER OR GUIDED FISHING" days fished separately from "OTHER FISHING" days fished.
- Count any part day fished as one whole day (e.g., two anglers each fishing any part of one day is two days fished).
- Do not include time spent commercial or subsistence fishing. Do include personal-use fishing where requested.
- If members of your household fished in more than one listed fishery in the same day, count that day in each fishery.

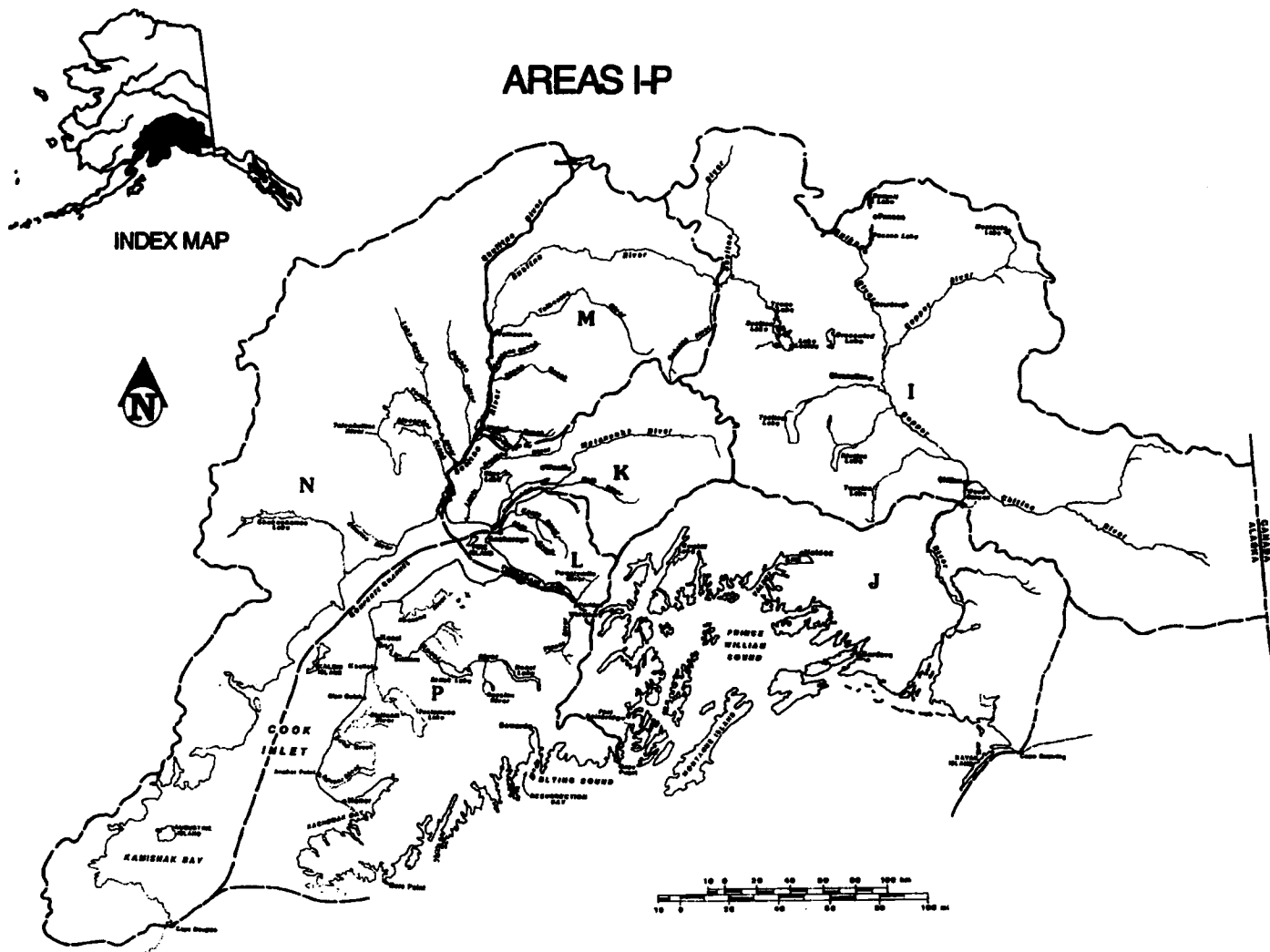
G. GLACIER BAY AREA*		DAYS FISHED			
		Charter or Guided Fishing		Other Fishing	
		Fresh water	Salt water	Fresh water	Salt water
1	Chinook salmon				
2	Silver salmon				
3	Red salmon				
4	Pink salmon				
5	Chum salmon				
6	Dolly Varden				
7	Cutthroat trout				
8	Steelhead/rainbow trout				
9	Halibut				
10	Rockfish				
11	Lingcod				
12	Other Area G finfish sport fishing				
13	King crab personal use				
14	Dungeness crab				
15	Other Area G shellfish				

\* See the map on page 4. All marine and fresh waters within the Glacier Bay National Monument boundaries, all east-side drainages of Excursion Inlet and Icy Strait to Ft. Conoverden, and that area south of the monument and north of a line bisecting Icy Strait.

H. YAKUTAT AREA		DAYS FISHED			
		Charter or Guided Fishing		Other Fishing	
		Fresh water	Salt water	Fresh water	Salt water
1	Chinook salmon				
2	Silver salmon				
3	Red salmon				
4	Pink salmon				
5	Chum salmon				
6	Dolly Varden				
7	Cutthroat trout				
8	Steelhead/rainbow trout				
9	Halibut				
10	Rockfish				
11	Lingcod				
12	Other Area H finfish sport fishing				
13	King crab personal use				
14	Dungeness crab				
15	Other Area H shellfish				

\* See the map on page 4. 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 Begley Icefield.





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SOUTHCENTRAL ALASKA SPORT FISH SURVEY AREAS

Area	Page
<p>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.</p>	12
<p>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.</p>	12
<p>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.</p>	13
<p>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.</p>	13
<p>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.</p>	14
<p>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.</p>	14
<p>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 water flowing into the Gulf of Alaska west of Port Bainbridge (includes Resurrection Bay).</p>	15-17

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**FOR EACH LISTED FISHERY:**

- Write the number of days sport fished by members of your household during 1995.
- Write "CHARTER OR GUIDED FISHING" days fished separately from "OTHER FISHING" days fished.
- Count any part day fished as one whole day (e.g., two anglers each fishing any part of one day is two days fished).
- Do not include time spent commercial or subsistence fishing. Do include personal-use fishing where requested.
- If members of your household fished in more than one listed fishery in the same day, count that day in each fishery.

I: GLENNALLÉN AREA		DAYS FISHED	
Fishery		Charter or Guided Fishing	Other Fishing
1	Copper River (Chitina) dipnetting, all species		
2	Gulkana River Arctic grayling		
3	Gulkana River king salmon		
4	Gulkana River rainbow trout/steelhead		
5	Gulkana River red salmon		
6	Gulkana River other sport fishing		
7	Klutina River king salmon		
8	Klutina River other sport fishing		
9	Glennallen area burbot (lake fishing only)		
10	Glennallen area lake trout (lake fishing only)		
11	Glennallen area other lake fishing		
12	Other Area I sport fishing		

\* See pages 10 and 11 for maps and area descriptions.

J: PRINCE WILLIAM SOUND AREA		DAYS FISHED	
Fishery		Charter or Guided Fishing	Other Fishing
1	Central Gulf Coast Dolly Varden (saltwater fishing)**		
2	Central Gulf Coast halibut**		
3	Central Gulf Coast lingcod**		
4	Central Gulf Coast rockfish**		
5	Central Gulf Coast other saltwater sport fishing**		
6	Prince William Sound cutthroat trout (saltwater & freshwater)		
7	Prince William Sound king salmon (saltwater & freshwater)		
8	Prince William Sound pink salmon (saltwater and freshwater)		
9	Prince William Sound red salmon (saltwater & freshwater)		
10	Prince William Sound silver salmon (saltwater & freshwater)		
11	Other Area J sport fishing		

\* See pages 10 and 11 for maps and area descriptions.

\*\* Record Kenai Peninsula Area "Outer Gulf Coast" fishing on page 15.

**FOR EACH LISTED FISHERY:**

- Write the number of days sport fished by members of your household during 1995.
- Write "CHARTER OR GUIDED FISHING" days fished separately from "OTHER FISHING" days fished.
- Count any part day fished as one whole day (e.g., two anglers each fishing any part of one day is two days fished).
- Do not include time spent commercial or subsistence fishing. Do include personal-use fishing where requested.
- If members of your household fished in more than one listed fishery in the same day, count that day in each fishery.

Other Area K		DAYS FISHED	
Fishery	Charter or Guided Fishing	Other Fishing	
1 Fish Creek red salmon dipnetting			
2 Fish Creek red salmon sport fishing			
3 Fish Creek other sport fishing			
4 Knik Arm silver salmon			
5 Knik Arm, other sport fishing			
10 Little Susitna River king salmon, upstream of the weir**			
11 Little Susitna River king salmon, downstream of the weir**			
12 Little Susitna River silver salmon, upstream of the weir**			
13 Little Susitna River silver salmon, downstream of the weir**			
14 Little Susitna River other sport fishing, upstream of the weir**			
15 Little Susitna River other sport fishing, downstream of the weir**			
9 Other Area K sport fishing			

\*\*The weir is located at river mile 32.5, about 4 river miles upstream of the Little Susitna River Public Use Facility, and 40 miles downstream from Houston.

Other Area L		DAYS FISHED	
Fishery	Charter or Guided Fishing	Other Fishing	
1 Bird Creek pink salmon			
2 Bird Creek silver salmon			
3 Bird Creek other sport fishing			
4 Campbell Creek silver salmon			
5 Campbell Creek other sport fishing			
6 Eagle River king salmon			
7 Eagle River other sport fishing			
8 Ship Creek king salmon			
9 Ship Creek silver salmon			
10 Ship Creek other sport fishing			
11 Other Area L sport fishing			

\* See pages 10 and 11 for maps and area descriptions.

**FOR EACH LISTED FISHERY:**

- Write the number of days sport fished by members of your household during 1995.
- Write "CHARTER OR GUIDED FISHING" days fished separately from "OTHER FISHING" days fished.
- Count any part day fished as one whole day (e.g., two anglers each fishing any part of one day is two days fished).
- Do not include time spent commercial or subsistence fishing. Do include personal-use fishing where requested.
- If members of your household fished in more than one listed fishery in the same day, count that day in each fishery.

M EAST-SIDE SUSITNA DRAINAGE AREA		DAYS FISHED	
Fishery		Charter or Guided Fishing	Other Fishing
1	Susitna River** rainbow trout		
2	Susitna River** silver salmon		
3	Susitna River** other sport fishing		
4	East-side Susitna drainage king salmon		
5	East-side Susitna drainage other sport fishing		

\* See pages 10 and 11 for maps and area descriptions.

\*\* Record here only Susitna River fishing that was accessed from the east-side of the Susitna River drainage. If you accessed the Susitna River from the west bank, record days fished in the Area N table to the right.

N WEST-SIDE SUSITNA RIVER DRAINAGE AREA		DAYS FISHED	
Fishery		Charter or Guided Fishing	Other Fishing
1	Susitna River** rainbow trout		
2	Susitna River** silver salmon		
3	Susitna River** other sport fishing		
4	West-side Susitna River drainage king salmon		
5	West-side Susitna River drainage other sport fishing		
6	West-side Cook Inlet drainage king salmon		
7	West-side Cook Inlet drainage other sport fishing		

\* See pages 10 and 11 for maps and area descriptions.

\*\* Record here only Susitna River fishing that was accessed from the west-side of the Susitna River drainage. If you accessed the Susitna River from the east bank, record days fished in the Area M table to the left.

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**FOR EACH LISTED FISHERY:**

- Write the number of days sport fished by members of your household during 1995.
- Write "CHARTER OR GUIDED FISHING" days fished separately from "OTHER FISHING" days fished.
- Count any part day fished as one whole day (e.g., two anglers each fishing any part of one day is two days fished).
- Do not include time spent commercial or subsistence fishing. Do include personal-use fishing where requested.
- If members of your household fished in more than one listed fishery in the same day, count that day in each fishery.

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P. KENAI PENINSULA AREA - SALTWATER		DAYS FISHED	
Fishery		Charter or Guided Fishing	Other Fishing
1	Anchor River, Whiskey Gulch, Deep Creek areas saltwater king salmon before and including June 30		
2	Anchor River, Whiskey Gulch, Deep Creek areas saltwater king salmon after June 30		
3	Anchor River, Whiskey Gulch, Deep Creek areas halibut		
4	Anchor River, Whiskey Gulch, Deep Creek areas saltwater other finfish		
5	Tutka Lagoon pink salmon		
6	Tutka Lagoon halibut		
7	Tutka Lagoon other finfish		
8	Halibut Cove king salmon		
9	Halibut Cove halibut		
10	Halibut Cove other finfish		
11	Homer Spit (fishing near the Spit) salmon		
12	Homer Spit (fishing near the Spit) halibut		
13	Homer Spit (fishing near the Spit) other finfish		
14	Other Kachemak Bay halibut		
15	Other Kachemak Bay other finfish sport fishing		

\* See pages 10 and 11 for maps and area descriptions.

P. KENAI PENINSULA AREA - SALTWATER		DAYS FISHED	
Fishery		Charter or Guided Fishing	Other Fishing
16	Other Cook Inlet/Outer Gulf Coast west of Gore Pt. Dolly Varden (saltwater)		
17	Other Cook Inlet/Outer Gulf Coast west of Gore Pt. halibut		
18	Other Cook Inlet/Outer Gulf Coast west of Gore Pt. lingcod		
19	Other Cook Inlet/Outer Gulf Coast west of Gore Pt. rockfish		
20	Other Cook Inlet/Outer Gulf Coast west of Gore Pt. other finfish		
21	Resurrection Bay king salmon		
22	Resurrection Bay pink salmon		
23	Resurrection Bay red salmon		
24	Resurrection Bay silver salmon		
25	Resurrection Bay other finfish		
26	Other Gulf Coast east of Gore Pt. Dolly Varden (saltwater)**		
27	Other Gulf Coast east of Gore Pt. halibut**		
28	Other Gulf Coast east of Gore Pt. lingcod**		
29	Other Gulf Coast east of Gore Pt. rockfish**		
30	Other Gulf Coast east of Gore Pt. other finfish**		
31	Other Area P saltwater finfish		

\* See pages 10 and 11 for maps and area descriptions.

\*\* Record Prince William Sound Area "Central Gulf Coast" fishing on page 12.

The Kenai Peninsula area is continued on page 16.

**FOR EACH LISTED FISHERY:**

- Write the number of days sport fished by members of your household during 1995.
- Write "CHARTER OR GUIDED FISHING" days fished separately from "OTHER FISHING" days fished.
- Count any part day fished as one whole day (e.g., two anglers each fishing any part of one day is two days fished).
- Do not include time spent commercial or subsistence fishing. Do include personal-use fishing where requested.
- If members of your household fished in more than one listed fishery in the same day, count that day in each fishery.

25

P. KENAI PENINSULA - DIPNETTING & SHELLFISH		DAYS FISHED	
Fishery		Charter or Guided Fishing	Other Fishing
1	China Poot red salmon dipnetting		
2	China Poot other dipnetting		
3	Kenai River red salmon dipnetting		
4	Kenai River other dipnetting		
5	Razor Clams: Anchor River to Kaslof River area		
6	Hard Shell Clams: Anchor River to Kaslof River area		
7	Other Area P shellfish		

R. KENAI PENINSULA - KENAI RIVER		DAYS FISHED	
Fishery		Charter or Guided Fishing	Other Fishing
1	Kenai River Dolly Varden		
2	Kenai River king salmon before & including June 30		
3	Kenai River king salmon after June 30		
4	Kenai River pink salmon		
5	Kenai River rainbow trout		
6	Kenai River red salmon after June 21		
7	Kenai River silver salmon before & including Sept 1		
8	Kenai River silver salmon after September 1		
9	Kenai River other sport fishing		

\* See pages 10 and 11 for maps and area descriptions.

S. KENAI PENINSULA - KASLOF R. & CROOKED CR.		DAYS FISHED	
Fishery		Charter or Guided Fishing	Other Fishing
10	Kaslof River king salmon before & including June 30		
11	Kaslof River king salmon after June 30		
12	Kaslof River silver salmon		
13	Kaslof River steelhead		
14	Kaslof River other sport fishing		
15	Kaslof River red salmon dipnetting		
16	Crooked Creek silver salmon		
17	Crooked Creek steelhead		
18	Crooked Creek other sport fishing		

\* See pages 10 and 11 for maps and area descriptions.

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The Kenai Peninsula area is continued on page 17.

**FOR EACH LISTED FISHERY:**

- Write the number of days sport fished by members of your household during 1995.
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- If members of your household fished in more than one listed fishery in the same day, count that day in each fishery.

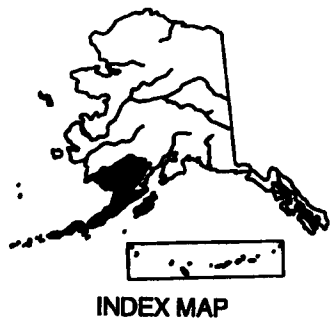
A. KENAI PENINSULA - LOWER PENINSULA STREAMS		DAYS FISHED	
Fishery		Charter or Guided Fishing	Other Fishing
19	Anchor River Dolly Varden		
20	Anchor River king salmon		
21	Anchor River silver salmon		
22	Anchor River steelhead		
23	Anchor River other sport fishing		
24	Ninilchik River, Deep Creek, & Stariski Creek king salmon		
25	Ninilchik River, Deep Creek, & Stariski Creek silver salmon		
26	Ninilchik River and Deep Creek steelhead		
27	Ninilchik River, Deep Creek, & Stariski Creek other sport fishing		

\* See pages 10 and 11 for maps and area descriptions.

B. KENAI PENINSULA - OTHER FRESHWATER		DAYS FISHED	
Fishery		Charter or Guided Fishing	Other Fishing
28	Russian River red salmon before & including June 21		
29	Russian River red salmon after June 21		
30	Russian River other sport fishing		
31	Swanson River rainbow trout		
32	Swanson River silver salmon		
33	Swanson River other sport fishing		
34	Swanson River Canoe Route Lakes rainbow trout		
35	Swanson River Canoe Route Lakes other fishing		
36	Swan Lake Canoe System rainbow trout		
37	Swan Lake Canoe System other fishing		
38	Other Area P freshwater finfish		

\* See pages 10 and 11 for maps and area descriptions.

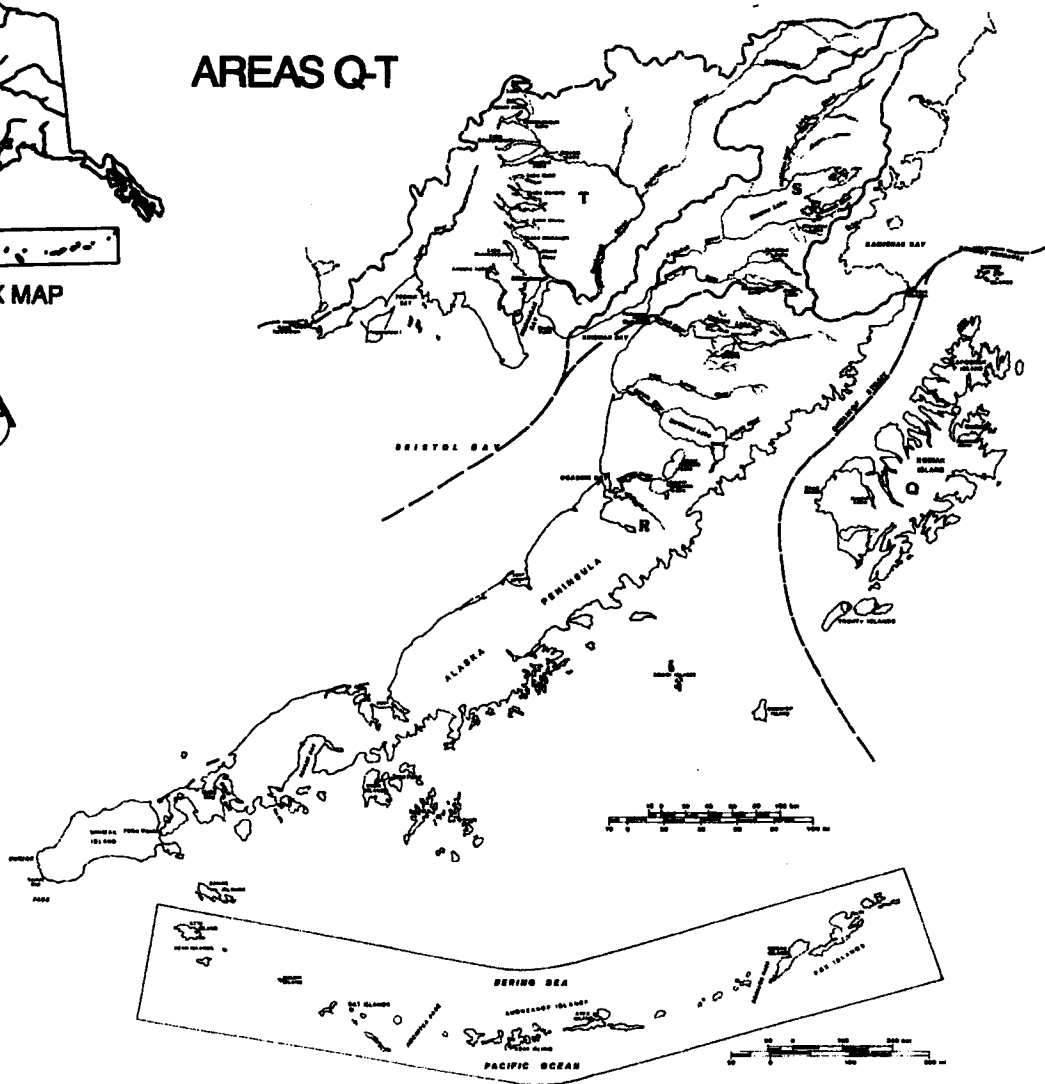




INDEX MAP



# AREAS Q-T



**SOUTHWEST ALASKA SPORT FISH SURVEY AREAS**

28

<b>Area</b>	<b>Page</b>
<b>Q. KODIAK AREA</b> ..... All marine and fresh waters within the Kodiak Island Borough boundary. This includes Afognak Island and the Barren Islands in the north and the Trinity Islands in the south.	20
<b>R. NAKNEK DRAINAGES—ALASKA PENINSULA AREA</b> ..... 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.	20
<b>S. KVICHAK RIVER DRAINAGE AREA</b> ..... 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.	21
<b>T. NUSHAGAK AREA</b> ..... 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.	21

**FOR EACH LISTED FISHERY:**

- Write the number of days sport fished by members of your household during 1995.
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- If members of your household fished in more than one listed fishery in the same day, count that day in each fishery.

Q KODIAK AREA		DAYS FISHED	
Fishery	Charter or Guided Fishing	Other Fishing	
1	Afognak/Shuyak Islands silver salmon		
2	Afognak/Shuyak Islands steelhead		
3	Afognak/Shuyak Islands, other sport fishing		
4	Karluk and Red rivers king salmon		
5	Karluk and Red rivers steelhead		
6	Karluk and Red rivers, other sport fishing		
7	Kodiak road system saltwater shoreline Dolly Varden		
8	Kodiak road system saltwater shoreline pink salmon		
9	Kodiak road system saltwater shoreline red salmon		
10	Kodiak road system saltwater shoreline silver salmon		
11	Kodiak road system saltwater shoreline, other sport fishing		
12	Kodiak road system streams Dolly Varden		
13	Kodiak road system streams pink salmon		
14	Kodiak road system streams red salmon		
15	Kodiak road system streams silver salmon		
16	Kodiak road system streams, other sport fishing		
17	Other Area Q sport fishing		

R NAKNEK RIVER, BROOKS RIVER, UGASHIK RIVER, AND OTHER AREAS		DAYS FISHED	
Fishery	Charter or Guided Fishing	Other Fishing	
1	Adak Island Dolly Varden		
2	Adak Island pink salmon		
3	Adak Island, other sport fishing		
4	Brooks River red salmon		
5	Brooks River other sport fishing		
6	Naknek River king salmon, upstream section**		
13	Naknek River king salmon, downstream section***		
7	Naknek River rainbow trout, upstream section**		
14	Naknek River rainbow trout, downstream section***		
8	Naknek River silver salmon, upstream section**		
15	Naknek River silver salmon, downstream section***		
9	Naknek River other sport fishing, upstream section**		
16	Naknek River other sport fishing, downstream section***		
10	Ugashik River Arctic grayling		
11	Ugashik River other sport fishing		
12	Other Area R sport fishing		

\*\*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.

\* See pages 18 and 19 for maps and area descriptions.

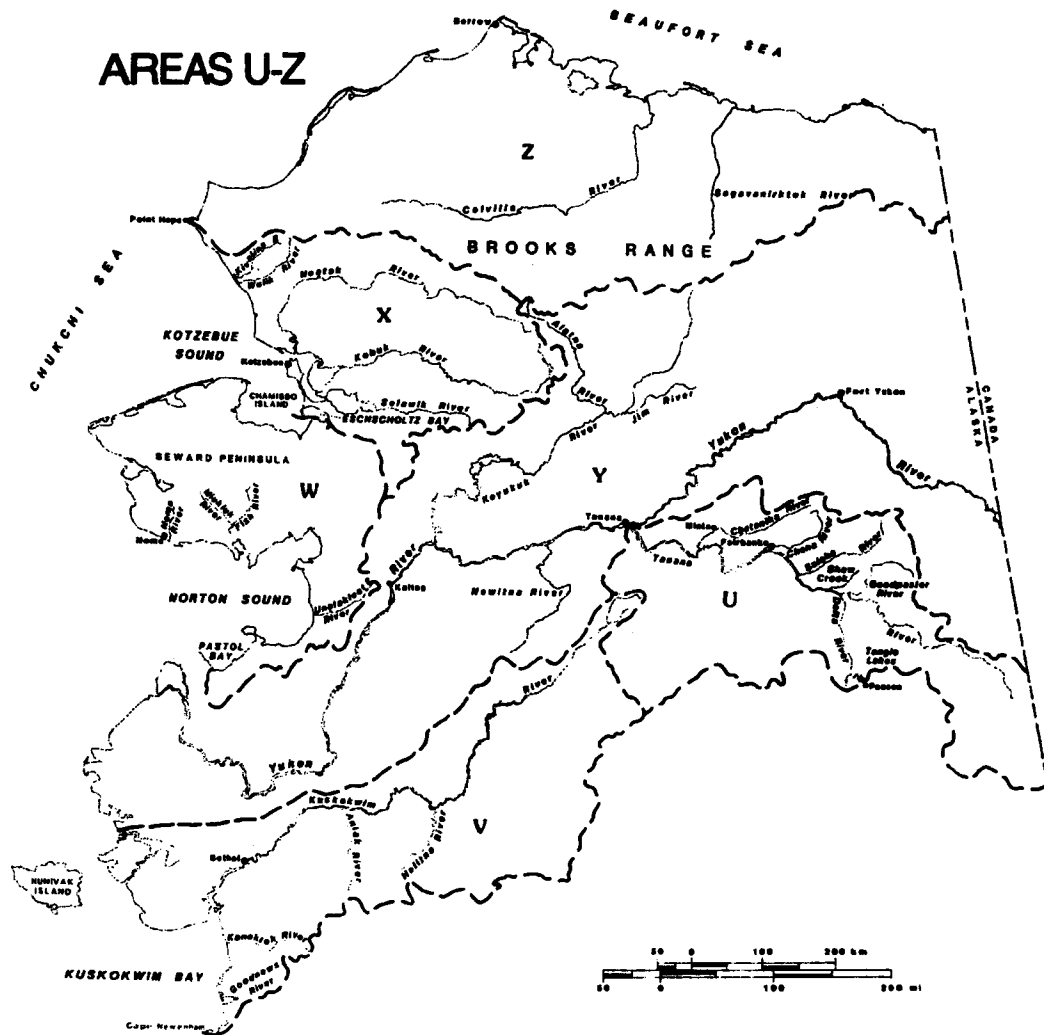
**FOR EACH LISTED FISHERY:**

- Write the number of days sport fished by members of your household during 1995.
- Write "CHARTER OR GUIDED FISHING" days fished separately from "OTHER FISHING" days fished.
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- If members of your household fished in more than one listed fishery in the same day, count that day in each fishery.

S. KVICHAK RIVER DRAINAGE AREA*		DAYS FISHED	
Fishery		Charter or Guided Fishing	Other Fishing
1	Kvichak River red salmon		
2	Kvichak River, other sport fishing		
3	Lower Talarik Creek rainbow trout		
4	Lower Talarik Creek, other sport fishing		
5	Newhalen River red salmon		
6	Newhalen River, other sport fishing		
7	Other Area S sport fishing		

T. NUSHAGAK AREA*		DAYS FISHED	
Fishery		Charter or Guided Fishing	Other Fishing
1	Agulowak/Agulukpak rivers rainbow trout		
2	Agulowak/Agulukpak rivers, other sport fishing		
3	Nushagak/Mulchatna rivers king salmon		
4	Nushagak/Mulchatna rivers silver salmon		
5	Nushagak/Mulchatna rivers, other sport fishing		
6	Togiak River silver salmon		
7	Togiak River, other sport fishing		
8	Wood River lakes system Arctic grayling		
9	Wood River lakes system, other sport fishing		
10	Other Area T sport fishing		

\* See pages 18 and 19 for maps and area descriptions.



ARCTIC-YUKON-KUSKOKWIM SPORT FISH SURVEY AREAS

Area	Page
U. TANANA RIVER AREA ..... The Tanana River watershed.	24
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.	25
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.	25
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.	25
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.	<i>No information requested</i>
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.	<i>No information requested</i>

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**FOR EACH LISTED FISHERY:**

- Write the number of days sport fished by members of your household during 1995.
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- If members of your household fished in more than one listed fishery in the same day, count that day in each fishery.

TANANA RIVER AREA - PART I		DAYS FISHED	
Fishery		Charter or Guided Fishing	Other Fishing
1	Birch Lake ice fishing all species		
2	Birch Lake open water fishing all species		
37	Lower Chatanika River fall spear fishery†		
38	Upper Chatanika River fall spear fishery††		
39	Lower Chatanika River Arctic grayling†		
40	Upper Chatanika River Arctic grayling††		
41	Lower Chatanika River other sport fishing†		
42	Upper Chatanika River other sport fishing††		
5	Chena Lakes ice fishing all species		
6	Chena Lakes open water fishing all species		
26	Chena River salmon (all species combined)		
9	Chena River (including Badger Slough) Arctic grayling		
10	Chena River (including Badger Slough) northern pike		
27	Chena River (including Badger Slough) burbot		
11	Chena River (incl. Badger Slough) other sport fishing		
28	Piledriver Slough Arctic grayling		
29	Piledriver Slough rainbow trout		
30	Piledriver Slough other sport fishing		

†Chatanika River and tributaries downstream of the Elliot Highway.

††Chatanika River and tributaries upstream of the Elliot Highway.

TANANA RIVER AREA - PART II		DAYS FISHED	
Fishery		Charter or Guided Fishing	Other Fishing
31	Tangle Lakes Arctic grayling		
32	Tangle Lakes lake trout		
33	Tangle Lakes other sport fishing		
12	Delta Clearwater River Arctic grayling		
13	Delta Clearwater River silver salmon		
14	Delta Clearwater River other sport fishing		
15	Quartz Lake ice fishing all species		
16	Quartz Lake open water fishing all species		
17	Salcha River Arctic grayling		
34	Salcha River salmon (all species)		
19	Salcha River, other sport fishing		
20	Tanana River (mainstem between Delta Junction and Nenana) all ice fishing		
21	Tanana River (mainstem between Delta Junction and Nenana) open water fishing		
22	Volkmur Lake ice fishing all species		
23	Volkmur Lake open water fishing all species		
35	Other stocked lakes ice fishing all species		
36	Other stocked lakes open water fishing all species		
24	Other Area U sport fishing		

\* See pages 22 and 23 for maps and area descriptions.

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- If members of your household fished in more than one listed fishery in the same day, count that day in each fishery.

V KUSKOKWIM RIVER AREA		DAYS FISHED	
Fishery		Charter or Guided Fishing	Other Fishing
1	Kanektok River king salmon		
2	Kanektok River rainbow trout		
3	Kanektok River silver salmon		
4	Kanektok River other sport fishing		
5	Other Area V sport fishing		

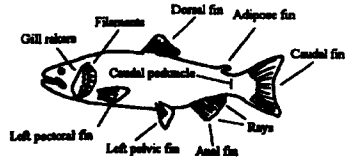
W SEWARD PENINSULA NORTHWARD SLOPE AREA		DAYS FISHED	
Fishery		Charter or Guided Fishing	Other Fishing
1	Kuzitrin River northern pike		
2	Kuzitrin River, other sport fishing		
3	Pilgrim River northern pike		
4	Pilgrim river other sport fishing		
5	Unalakleet and North rivers all salmon sport fishing		
6	Unalakleet and North rivers other sport fishing		
7	Other Area W sport fishing		

X NORTHWEST ALASKA AREA		DAYS FISHED	
Fishery		Charter or Guided Fishing	Other Fishing
1	Kobuk River sheefish		
2	Kobuk River other sport fishing		
3	Noatak River Arctic char		
4	Noatak River other sport fishing		
5	Other Area X sport fishing		

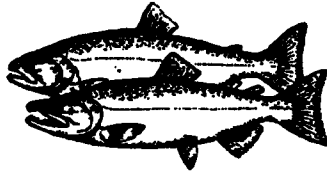
\* See pages 22 and 23 for maps and area descriptions.



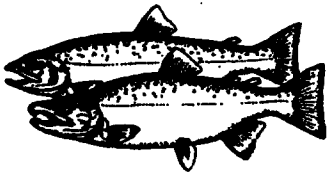
DISTINGUISHING CHARACTERISTICS OF SEVERAL VARIETIES OF FISH



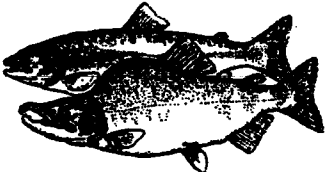
**General Characteristics of Fish:** cut away of operculum (gill-cover) showing one gill arch, filaments, and gill rakers.



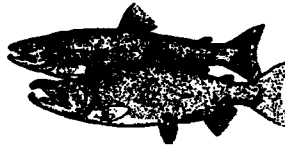
**King (Chinook) Salmon:** small black spots on back and on both lobes of caudal fin; gum line of lower jaw black; scales large; gill rakers less than 25; anal fin rays 15-17.



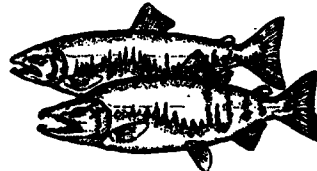
**Silver (Coho) Salmon:** small black spots usually occur only on upper lobe of caudal fin and on back; gum line on lower jaw not black; scales large; gill rakers less than 25; anal fin rays 13-15.



**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-lacked 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.



**Barbet:** 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.

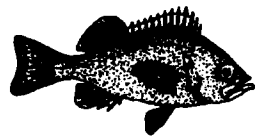


**"Rockfish":** several species of marine fish also referred to as black bass, sea bass, and red snapper. Rockfish may be distinguished from sculpins (Irish Lords) by the dorsal fin, which has spines on the front half and soft rays on the rear half in the rockfish. NOTE: Handle with care because of spines.

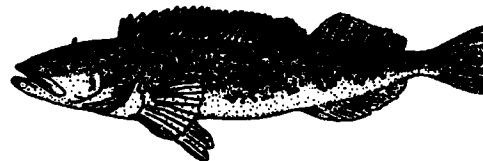
DISTINGUISHING CHARACTERISTICS OF SEVERAL VARIETIES OF FISH



**Black Rockfish:** Black to blue-black with dusky white areas. Jaw extends to rear of eye.



**Dusky Rockfish:** Color varies by age, usually brown. Knob on chin.



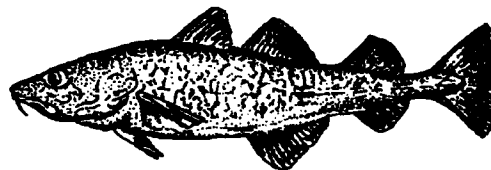
**Lingcod:** Long, elongate body. Sharp teeth. One lateral line. Long jaw.



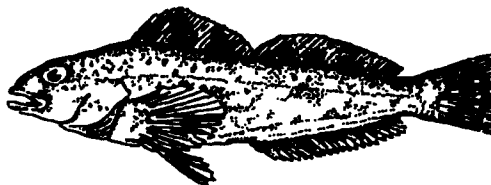
**Canary Rockfish:** Orange with grey or dusky spots. Lateral line is white to grey.



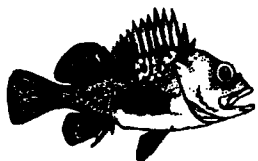
**China Rockfish:** Black to blue-black with yellow spots. Yellow stripe from dorsal fin to rear of body.



**Pacific Cod:** Chin barbel.



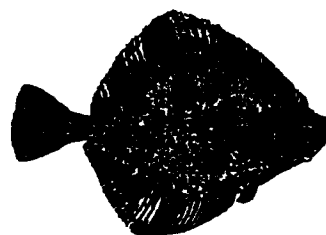
**Kelp Greenling:** Males brown with blue spots, females freckled with brown, 5 lateral lines.



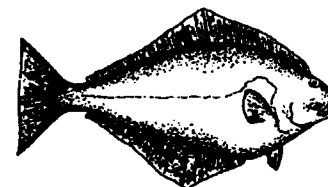
**Quillback Rockfish:** Black to brown with large orange areas. Dorsal fin notched deeply.



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



**Starry Flounder:** Black and yellow bands on fins.



**Halibut:** Jaw extends below middle of eye. Lateral line arched over pectoral fin.



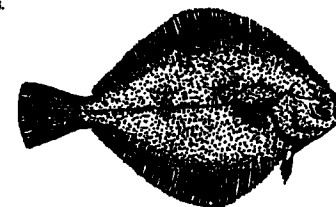
**Tiger Rockfish:** Black to dark red bars on pink red body.



**Yelloweye Rockfish:** Color changes with age. Pale yellow stripe on body. Yellow eye.



**Arrowtooth Flounder:** Large mouth and teeth. Little arching of lateral line. Upper eye reaches top of head.



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



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**Appendix A4.-Response to the Use Survey mailing, 1994 and 1995.**

---

	1994	1995
<b>Mailing</b>		
Number Mailed	15,000	15,000
Number Returned Nondeliverable	938	980
<b>Responses</b>		
Number	7,558	7,010
Percent of 1st Mailing not Returned as Nondeliverable	53.7%	50.0%

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**APPENDIX B. ESTIMATED SPORT FINFISH TARGETED  
DAYS FISHED BY SPORT HARVEST AREAS, 1994 AND 1995.**

**Appendix B1.-Ketchikan Area sport finfish  
targeted days fished, 1994 and 1995.**

Species	Days Fished	SE	n
<b>1994</b>			
Chinook salmon	39,954	4,121	294
Coho salmon	40,647	4,842	234
Sockeye salmon	6,406	1,276	60
Pink salmon	25,929	4,212	129
Chum salmon	14,176	2,607	93
Dolly Varden	2,803	781	27
Cutthroat trout	5,275	1,297	36
Steelhead/rainbow trout	5,367	1,381	39
Halibut	41,041	4,888	258
Rockfish	18,265	2,541	113
Lingcod	11,347	2,494	71
Other	1,448	635	13
<b>Total</b>	<b>212,658</b>	<b>22,318</b>	<b>1,367</b>
<b>1995</b>			
Chinook salmon	34,093	5,112	218
Coho salmon	38,359	5,370	205
Sockeye salmon	6,780	1,736	49
Pink salmon	27,986	5,124	147
Chum salmon	8,053	1,607	67
Dolly Varden	8,816	2,960	37
Cutthroat trout	8,374	2,925	40
Steelhead/Rainbow trout	6,493	1,572	40
Halibut	49,052	6,947	241
Rockfish	28,655	5,280	96
Lingcod	20,500	4,920	65
Other	1,361	530	11
<b>Total</b>	<b>238,520</b>	<b>30,353</b>	<b>1216</b>

**Appendix B2.-Prince of Wales area sport finfish  
targeted days fished, 1994 and 1995.**

Species	Days Fished	SE	n
<b>1994</b>			
Chinook salmon	39,008	6,956	161
Coho salmon	33,327	4,884	121
Sockeye salmon	3,306	1,110	22
Pink salmon	8,332	1,920	41
Chum salmon	2,240	721	18
Dolly Varden	1,761	457	18
Cutthroat trout	3,371	847	29
Steelhead/rainbow trout	4,775	1,091	32
Halibut	40,099	6,888	189
Rockfish	18,751	4,639	77
Lingcod	15,456	3,684	67
Other	3,010	2,266	5
<b>Total</b>	<b>173,437</b>	<b>27,414</b>	<b>780</b>
<b>1995</b>			
Chinook salmon	23,914	4,009	136
Coho salmon	20,281	3,222	116
Sockeye salmon	3,155	1,524	19
Pink salmon	8,809	2,472	51
Chum salmon	3,458	1,657	20
Dolly Varden	2,988	984	19
Cutthroat trout	4,557	1,259	25
Steelhead/Rainbow trout	3,046	860	20
Halibut	28,354	4,466	167
Rockfish	11,876	2,805	57
Lingcod	11,306	2,696	56
Other	882	518	4
<b>Total</b>	<b>122,626</b>	<b>20,431</b>	<b>690</b>

**Appendix B3.-Kake, Petersburg, Wrangell, Stikine area  
sport finfish targeted days fished, 1994 and 1995**

Species	Days Fished	SE	n
<b>1994</b>			
Chinook salmon	30,629	4,769	147
Coho salmon	14,311	3,106	74
Sockeye salmon	1,332	490	13
Pink salmon	3,021	942	20
Chum salmon	1,465	510	13
Dolly Varden	8,423	3,169	29
Cutthroat trout	7,037	1,993	34
Steelhead/rainbow trout	6,578	1,890	34
Halibut	26,153	4,565	155
Rockfish	3,262	694	31
Lingcod	2,509	642	25
Other	1,700	1,337	4
<b>Total</b>	<b>106,418</b>	<b>16,084</b>	<b>579</b>
<b>1995</b>			
Chinook salmon	25,112	4,807	108
Coho salmon	12,276	2,765	62
Sockeye salmon	2,660	1,361	17
Pink salmon	3,325	1,612	23
Chum salmon	2,216	1,568	8
Dolly Varden	5,689	2,166	29
Cutthroat trout	6,770	2,726	30
Steelhead/Rainbow trout	1,752	530	18
Halibut	23,465	4,150	132
Rockfish	2,871	1,193	14
Lingcod	888	357	10
Other	764	690	2
<b>Total</b>	<b>87,787</b>	<b>16,505</b>	<b>453</b>



**Appendix B4.-Sitka area sport finfish targeted days fished, 1994 and 1995.**

Species	Days Fished	SE	n
<b>1994</b>			
Chinook salmon	62,410	8,318	340
Coho salmon	33,503	5,191	165
Sockeye salmon	5,861	3,040	31
Pink salmon	8,453	2,163	51
Chum salmon	4,355	1,481	31
Dolly Varden	5,542	1,420	43
Cutthroat trout	2,486	697	24
Steelhead/rainbow trout	3,363	956	28
Halibut	46,809	4,973	308
Rockfish	14,950	2,552	105
Lingcod	12,849	1,848	96
Other	1,366	538	12
<b>Total</b>	<b>201,946</b>	<b>23,670</b>	<b>1,234</b>
<b>1995</b>			
Chinook salmon	40,156	7,457	254
Coho salmon	31,716	8,046	162
Sockeye salmon	2,252	602	28
Pink salmon	10,632	3,720	57
Chum salmon	6,293	3,588	30
Dolly Varden	7,431	3,558	29
Cutthroat trout	3,975	1,813	17
Steelhead/Rainbow trout	1,275	438	15
Halibut	43,242	7,775	255
Rockfish	10,801	2,717	70
Lingcod	11,099	3,121	68
Other	562	301	5
<b>Total</b>	<b>169,431</b>	<b>34,022</b>	<b>990</b>

**Appendix B5.-Juneau area sport finfish targeted days fished, 1994 and 1995.**

Species	Days Fished	SE	n
<b>1994</b>			
Chinook salmon	69,603	6,879	347
Coho salmon	66,506	7,113	282
Sockeye salmon	6,649	1,288	47
Pink salmon	21,813	2,726	128
Chum salmon	13,407	2,394	78
Dolly Varden	13,388	2,316	93
Cutthroat trout	5,978	1,300	48
Steelhead/rainbow trout	1,620	608	17
Halibut	33,961	3,571	213
Rockfish	7,741	1,557	48
Lingcod	2,614	893	17
Other	775	554	5
<b>Total</b>	<b>244,056</b>	<b>21,476</b>	<b>1,323</b>
<b>1995</b>			
Chinook salmon	78,623	11,823	294
Coho salmon	79,258	10,779	291
Sockeye salmon	7,406	2,039	48
Pink salmon	22,553	3,892	124
Chum salmon	16,547	3,978	88
Dolly Varden	17,613	3,189	110
Cutthroat trout	6,436	1,396	43
Steelhead/Rainbow trout	3,657	1,744	22
Halibut	46,450	7,425	224
Rockfish	7,702	2,368	46
Lingcod	2,830	1,531	16
Other	3,881	2,741	4
<b>Total</b>	<b>292,955</b>	<b>40,343</b>	<b>1,310</b>

**Appendix B6.-Haines-Skagway area sport finfish  
targeted days fished, 1994 and 1995.**

Species	Days Fished	SE	n
<b>1994</b>			
Chinook salmon	4,864	949	51
Coho salmon	4,518	987	44
Sockeye salmon	3,042	868	22
Pink salmon	4,510	1,228	34
Chum salmon	1,379	624	12
Dolly Varden	7,818	1,704	61
Cutthroat trout	1,731	664	14
Steelhead/rainbow trout	1,184	599	10
Halibut	4,479	1,143	37
Rockfish	2,199	809	12
Lingcod	1,227	651	6
Other	596	476	5
<b>Total</b>	<b>37,548</b>	<b>6,400</b>	<b>308</b>
<b>1995</b>			
Chinook salmon	5,237	1,265	71
Coho salmon	5,921	1,467	54
Sockeye salmon	2,620	1,111	24
Pink salmon	3,415	1,055	34
Chum salmon	1,088	531	8
Dolly Varden	7,050	1,455	72
Cutthroat trout	2,688	1,052	21
Steelhead/Rainbow trout	1,367	689	11
Halibut	4,083	1,140	49
Rockfish	569	306	8
Lingcod	141	98	2
Other	672	406	4
<b>Total</b>	<b>34,852</b>	<b>6,143</b>	<b>358</b>

**Appendix B7.-Glacier Bay area sport finfish targeted days fished, 1994 and 1995.**

Species	Days Fished	SE	n
<b>1994</b>			
Chinook salmon	7,015	1,721	47
Coho salmon	7,497	2,138	41
Sockeye salmon	2,750	1,341	13
Pink salmon	4,201	1,661	17
Chum salmon	2,150	1,310	8
Dolly Varden	1,704	537	21
Cutthroat trout	293	145	6
Steelhead/rainbow trout	322	223	3
Halibut	10,417	1,868	84
Rockfish	1,261	651	7
Lingcod	729	481	5
Other	-	-	
<b>Total</b>	<b>38,338</b>	<b>9,202</b>	<b>252</b>
<b>1995</b>			
Chinook salmon	3,630	1,501	20
Coho salmon	4,103	1,645	24
Sockeye salmon	859	355	10
Pink salmon	1,805	591	15
Chum salmon	261	177	3
Dolly Varden	1,613	632	15
Cutthroat trout	98	54	3
Steelhead/Rainbow trout	220	115	5
Halibut	10,009	3,886	64
Rockfish	328	149	5
Lingcod	1,022	930	4
Other	154	92	2
<b>Total</b>	<b>24,103</b>	<b>7,041</b>	<b>170</b>

**Appendix B8.-Yakutat area sport finfish targeted days fished, 1994 and 1995.**

Species	Days Fished	SE	n
<b>1994</b>			
Chinook salmon	6,195	1,625	34
Coho salmon	6,821	1,693	31
Sockeye salmon	6,278	1,759	29
Pink salmon	608	266	6
Chum salmon	122	73	2
Dolly Varden	3,164	1,066	16
Cutthroat trout	789	733	1
Steelhead/rainbow trout	3,285	840	30
Halibut	3,820	979	37
Rockfish	330	208	4
Lingcod	547	257	6
Other	270	168	3
<b>Total</b>	<b>32,230</b>	<b>6,009</b>	<b>199</b>
<b>1995</b>			
Chinook salmon	7,505	1,857	44
Coho salmon	7,981	1,912	33
Sockeye salmon	5,269	1,463	23
Pink salmon	1,112	537	7
Chum salmon	457	272	3
Dolly Varden	2,539	708	22
Cutthroat trout	947	610	4
Steelhead/Rainbow trout	4,155	1,263	24
Halibut	3,918	1,042	50
Rockfish	448	276	5
Lingcod	579	261	12
Other	117	83	2
<b>Total</b>	<b>35,028</b>	<b>7,412</b>	<b>229</b>

**Appendix B9.-Prince William Sound area sport finfish targeted days fished, 1994 and 1995.**

Species	Days Fished	SE	n
<b>1994</b>			
Cutthroat trout	4,231	1,436	26
Chinook salmon	12,730	2,049	94
Pink salmon	41,602	5,737	251
Sockeye salmon	12,201	2,222	76
Coho salmon	50,964	5,361	263
<b>Total</b>	<b>121,728</b>	<b>11,899</b>	<b>710</b>
<b>1995</b>			
Cutthroat trout	4,891	1,487	28
Chinook salmon	9,694	1,871	70
Pink salmon	35,773	4,473	269
Sockeye salmon	13,745	2,561	80
Coho salmon	47,632	5,529	282
<b>Total</b>	<b>111,735</b>	<b>12,285</b>	<b>729</b>

**Appendix B10.-Knik Arm Drainage area sport finfish targeted days fished, 1994 and 1995.**

Location	Species	Days Fished	SE	n
<b>1994</b>				
Fish Creek	Sockeye salmon sport fishing	4,189	859	41
	Other	6,837	2,577	39
	Total	11,026	2,871	80
Knik Arm	Coho salmon	21,237	3,410	119
	Other sport fishing	12,765	3,018	63
	Total	34,002	6,035	182
Little Susitna River	Chinook salmon	38,407	4,036	335
	Coho salmon	40,604	4,298	312
	Other	12,346	2,201	92
	Total	91,356	9,239	739
<b>1995</b>				
Fish Creek	Sockeye salmon sport fishing	4,254	1,386	35
	Other	2,740	818	31
	Total	6,995	1,695	66
Knik Arm	Coho salmon	19,338	3,371	114
	Other	13,539	3,438	58
	Total	32,877	6,311	172
Little Susitna River	Chinook salmon, upstream of weir	5,265	829	63
	Coho salmon, upstream of weir	11,297	1,802	94
	Other, upstream of weir	6,075	1,808	36
	Total upstream of weir	22,637	3,220	193
Little Susitna River	Chinook salmon, downstream of weir	12,838	1,729	122
	Coho salmon, downstream of weir	18,373	2,407	146
	Other, downstream of weir	2,372	1,193	19
	Total downstream of weir	33,583	4,085	287

**Appendix B11.-Anchorage area sport finfish targeted days fished, 1994 and 1995.**

Location	Species	Days Fished	SE	n
<b>1994</b>				
Bird Creek	Pink salmon	10,572	1,747	95
	Coho salmon	18,943	2,192	178
	Other	3,440	1,000	34
	<b>Total</b>	<b>32,955</b>	<b>4,190</b>	<b>307</b>
Campbell Creek	Coho salmon	12,522	1,850	112
	Other	4,494	978	46
	<b>Total</b>	<b>17,017</b>	<b>2,273</b>	<b>158</b>
Eagle River	Chinook salmon	6,045	1,051	71
	Other	4,622	1,129	40
	<b>Total</b>	<b>10,666</b>	<b>1,856</b>	<b>111</b>
Ship Creek	Chinook salmon	59,138	5,622	415
	Coho salmon	21,554	2,915	166
	Other	3,381	856	39
	<b>Total</b>	<b>84,073</b>	<b>8,279</b>	<b>620</b>

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Location	Species	Days Fished	SE	n
<b>1995</b>				
Bird Creek	Pink salmon	8,969	1,465	99
	Coho salmon	21,678	3,088	196
	Other	2,473	690	25
	Total	33,120	4,406	320
Campbell Creek	Coho salmon	11,323	2,278	91
	Other	2,427	671	26
	Total	13,750	2,492	117
Eagle River	Chinook salmon	6,366	1,022	67
	Other	5,742	2,041	37
	Total	12,108	2,497	104
Ship Creek	Chinook salmon	56,689	5,945	345
	Coho salmon	18,448	2,276	171
	Other	4,937	1,275	34
	Total	80,074	8,058	550

**Appendix B12.-East Susitna River Drainage area sport finfish targeted days fished, 1994 and 1995.**

Location	Species	Days Fished	SE	n
<b>1994</b>				
Susitna River	Rainbow trout	21,109	3,462	120
	Coho salmon	35,261	4,000	211
	Other	14,630	3,592	84
	Total	71,000	9,641	415
East-side Susitna drainage	Chinook salmon	49,643	4,493	411
	Other	34,978	4,784	224
	Total	84,620	7,849	635
<b>1995</b>				
Susitna River	Rainbow trout	15,798	3,880	76
	Coho salmon	22,310	3,268	144
	Other	9,007	1,970	55
	Total	47,115	7,100	275
East-side Susitna drainage	Chinook salmon	34,422	4,825	225
	Other	29,436	4,653	151
	Total	63,858	8,019	376

**Appendix B13.-West Cook Inlet-West Susitna River Drainages area sport finfish targeted days fished, 1994 and 1995.**

Location	Species	Days Fished	SE	n
<b>1994</b>				
Susitna River	Rainbow trout	10,260	3,539	50
	Coho salmon	13,269	2,285	95
	Other	5,550	1,338	40
	Total	29,079	5,781	185
West-side Susitna River drainage	Chinook salmon	51,202	4,908	352
	Other	25,944	3,344	150
	Total	77,146	7,292	502
West-side Cook Inlet drainage	Chinook salmon	12,415	1,739	107
	Other	16,526	2,518	127
	Total	28,941	3,698	234
<b>1995</b>				
Susitna River	Rainbow trout	9,760	2,853	46
	Coho salmon	15,422	3,508	82
	Other	6,443	1,664	29
	Total	31,625	6,719	157
West-side Susitna River drainage	Chinook salmon	23,455	3,488	155
	Other	15,081	2,590	96
	Total	38,536	4,819	251
West-side Cook Inlet drainage	Chinook salmon	8,512	1,604	71
	Other	18,415	2,555	131
	Total	26,927	3,578	202

**Appendix B14.-Kenai Peninsula freshwater (excluding Kenai River) sport finfish targeted days fished, 1994 and 1995.**

Location	Species	Days Fished	SE	n
<b>1994</b>				
Anchor River	Dolly Varden	7,321	1,274	82
	Chinook salmon	15,974	2,135	147
	Coho salmon	9,743	1,647	89
	Steelhead	5,876	1,123	65
	Other	864	271	13
	Total	39,779	4,606	396
Ninilchik R., Deep, & Stariski Cr.	Chinook salmon	35,243	3,696	327
	Coho salmon	8,918	1,670	85
	Steelhead	2,761	506	43
	Other	7,846	1,951	59
	Total	54,768	6,083	514
Russian River	Sockeye salmon on or before 6/21	33,537	3,686	292
	Sockeye salmon after 6/21	68,750	6,262	536
	Other	13,938	3,094	109
	Total	116,226	11,324	937
Swanson River	Rainbow trout	2,014	544	30
	Coho salmon	5,393	1,333	43
	Other	520	168	12
	Total	7,927	1,490	85
Swanson River Canoe Route Lakes	Rainbow trout	2,797	903	20
	Other	2,066	864	13
	Total	4,863	1,683	33
Swan Lake Canoe System	Rainbow trout	3,043	671	30
	Other	1,063	427	9
	Total	4,105	940	39

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Location	Species	Days Fished	SE	n
<b>1995</b>				
Anchor River	Dolly Varden	12,492	3,862	58
	Chinook salmon	15,941	4,141	75
	Coho salmon	10,432	2,111	69
	Steelhead	6,140	1,441	51
	Other	1,625	823	13
	Total	46,631	10,296	266
Ninilchik R., Deep, & Stariski Cr.	Chinook salmon	22,316	2,866	199
	Coho salmon	7,165	1,811	60
	Steelhead	1,855	841	22
	Other	5,484	1,912	45
	Total	36,819	5,599	326
Russian River	Sockeye salmon on or before 6/21	19,321	2,343	189
	Sockeye salmon after 6/21	50,378	6,355	389
	Other	11,980	2,803	88
	Total	81,679	9,987	666
Swanson River	Rainbow trout	3,018	709	31
	Coho salmon	2,244	564	28
	Other	3,000	2,623	9
	Total	8,262	3,009	68
Swanson River Canoe Route Lakes	Rainbow trout	2,468	1,576	14
	Other	3,081	1,651	13
	Total	5,548	3,188	27
Swan Lake Canoe System	Rainbow trout	2,877	1,491	23
	Other	1,779	1,439	7
	Total	4,655	2,903	30

**Appendix B15.-Kenai Peninsula Kenai and Kasilof rivers nonguided sport finfish targeted days fished, 1994 and 1995.**

Location	Species	Days Fished	SE	n
<b>1994</b>				
Kenai River	Dolly Varden	47,252	6,159	278
	Chinook salmon on or before 6/30	59,254	5,699	415
	Chinook salmon after 6/30	75,935	6,169	460
	Pink salmon	17,178	2,693	136
	Rainbow trout	43,784	6,290	270
	Sockeye salmon after 6/21	144,102	10,939	805
	Coho salmon on or before 9/1	53,177	5,650	370
	Coho salmon after 9/1	28,792	3,308	240
	Other	11,296	2,198	77
	<b>Total</b>	<b>480,770</b>	<b>37,838</b>	<b>3,051</b>
Kasilof River	Chinook salmon on or before 6/30	35,863	3,498	333
	Chinook salmon after 6/30	11,393	1,607	122
	Coho salmon	8,064	1,418	88
	Steelhead	14,227	1,677	173
	Other	6,183	2,030	51
	<b>Total</b>	<b>75,730</b>	<b>7,252</b>	<b>767</b>
Crooked Creek	Coho salmon	4,834	1,146	55
	Steelhead	7,748	1,096	108
	Other	2,604	566	37
	<b>Total</b>	<b>15,186</b>	<b>1,914</b>	<b>200</b>

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**Appendix B15.-Page 2 of 2.**

Location	Species	Days Fished	SE	n
<b>1995</b>				
Kenai River	Dolly Varden	40,505	5,680	229
	Chinook salmon on or before 6/30	40,742	4,609	309
	Chinook salmon after 6/30	67,793	7,255	418
	Pink salmon	6,212	1,351	57
	Rainbow trout	39,762	7,157	217
	Sockeye salmon after 6/21	138,254	13,792	741
	Coho salmon on or before 9/1	42,922	4,153	308
	Coho salmon after 9/1	17,543	2,573	123
	Other	5,692	1,032	67
	<b>Total</b>	<b>399,425</b>	<b>36,143</b>	<b>2,469</b>
Kasilof River	Chinook salmon on or before 6/30	17,919	2,071	185
	Chinook salmon after 6/30	7,585	1,175	92
	Coho salmon	6,652	1,353	61
	Steelhead	6,745	1,246	73
	Other	3,769	761	45
		<b>Total</b>	<b>42,670</b>	<b>4,756</b>
Crooked Creek	Coho salmon	1,794	414	34
	Steelhead	4,771	962	51
	Other	3,297	739	39
		<b>Total</b>	<b>9,862</b>	<b>1,456</b>

**Appendix B16.-Kenai Peninsula Kenai and Kasilof rivers guided sport finfish targeted days fished, 1994 and 1995.**

Location	Species	Days Fished	SE	n
<b>1994</b>				
Kenai River	Dolly Varden	1,410	303	31
	Chinook salmon on or before 6/30	17,657	1,497	315
	Chinook salmon after 6/30	10,691	1,393	190
	Pink salmon	1,242	460	15
	Rainbow trout	2,391	440	56
	Sockeye salmon after 6/21	5,389	967	64
	Coho salmon on or before 9/1	2,410	584	42
	Coho salmon after 9/1	1,655	608	22
	Other	943	581	7
	<b>Total</b>	<b>43,788</b>	<b>3,933</b>	<b>742</b>
Kasilof River	Chinook salmon on or before 6/30	5,555	842	100
	Chinook salmon after 6/30	1,471	342	27
	Coho salmon	393	134	11
	Steelhead	468	182	10
	Other	170	80	5
		<b>Total</b>	<b>8,056</b>	<b>1,075</b>
Crooked Creek	Coho salmon	30	26	1
	Steelhead	178	125	3
	Other	-	-	
		<b>Total</b>	<b>209</b>	<b>122</b>

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Location	Species	Days Fished	SE	n
<b>1995</b>				
Kenai River	Dolly Varden	3,859	1,155	45
	Chinook salmon on or before 6/30	16,155	2,576	229
	Chinook salmon after 6/30	22,821	3,415	303
	Pink salmon	1,240	719	11
	Rainbow trout	5,163	1,247	62
	Sockeye salmon after 6/21	8,002	1,614	71
	Coho salmon on or before 9/1	5,030	1,374	44
	Coho salmon after 9/1	1,100	394	12
	Other	470	307	6
	<b>Total</b>	<b>63,841</b>	<b>8,516</b>	<b>783</b>
Kasilof River	Chinook salmon on or before 6/30	3,678	852	57
	Chinook salmon after 6/30	1,701	447	26
	Coho salmon	1,002	457	10
	Steelhead	178	86	5
	Other	117	89	2
		<b>Total</b>	<b>6,677</b>	<b>1,446</b>
Crooked Creek	Coho salmon	28	24	1
	Steelhead	33	29	1
	Other	28	24	1
		<b>Total</b>	<b>89</b>	<b>62</b>

**Appendix B17.-Kenai Peninsula saltwater private boat and shoreline targeted days fished, 1994 and 1995.**

Location	Species	Days Fished	SE	n
<b>1994</b>				
Anchor R., Whiskey Gulch, and Deep Cr.	Chinook salmon on or before 6/30	51,295	5,120	374
	Chinook salmon after 6/30	29,486	3,194	221
	Halibut	61,501	5,873	359
	Other	9,318	2,934	64
	Total	151,600	12,398	1,018
Tutka Lagoon	Pink salmon	2,125	665	21
	Halibut	739	317	8
	Other	184	109	3
	Total	3,048	773	32
Halibut Cove	Chinook salmon	4,005	884	54
	Halibut	4,583	857	59
	Other	1,234	464	13
	Total	9,821	1,598	126
Homer Spit	Salmon	50,552	5,243	421
	Halibut	14,090	2,108	141
	Other	4,158	811	50
	Total	68,800	6,420	612
Other Kachemak Bay	Halibut	37,233	5,717	229
	Other	11,930	2,463	85
	Total	49,163	7,265	314

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Location	Species	Days Fished	SE	n
Other Cook Inlet/Outer Gulf East of Dolly Varden Gore Point		1,179	460	11
	Halibut	12,186	3,603	71
	Lingcod	662	321	6
	Rockfish	710	345	5
	Other	1,601	959	12
	<b>Total</b>	<b>16,338</b>	<b>3,793</b>	<b>105</b>
Resurrection Bay	Chinook salmon	17,413	2,383	145
	Pink salmon	10,932	2,379	70
	Sockeye salmon	4,509	1,013	47
	Coho salmon	50,695	5,152	311
	Other	21,421	3,690	127
	<b>Total</b>	<b>104,970</b>	<b>11,140</b>	<b>700</b>
Other Gulf Coast East of Gore Point	Dolly Varden	959	545	7
	Halibut	13,048	3,408	54
	Lingcod	3,866	1,273	20
	Rockfish	5,796	1,682	30
	Other	1,714	813	9
	<b>Total</b>	<b>25,383</b>	<b>5,762</b>	<b>120</b>

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**Appendix B17.-Page 3 of 4**

Location	Species	Days Fished	SE	n
<b>1995</b>				
Anchor R., Whiskey Gulch, and Deep Cr.	Chinook salmon <=6/30	36,434	5,593	239
	Chinook salmon > 6/30	26,646	3,775	165
	Halibut	47,698	6,658	278
	Other	10,594	2,117	68
	Total	121,373	14,864	750
Tutka Lagoon	Pink salmon	1,185	403	14
	Halibut	729	239	12
	Other	470	187	8
	Total	2,383	586	34
Halibut Cove	Chinook salmon	3,187	921	33
	Halibut	3,996	1,729	34
	Other	1,215	836	10
	Total	8,399	3,162	77
Homer Spit .	Salmon	44,722	6,835	378
	Halibut	12,524	2,424	120
	Other	4,983	962	53
	Total	62,228	9,096	551
Other Kachemak Bay	Halibut	27,111	3,266	197
	Other	7,150	1,249	69
	Total	34,261	3,903	266

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**Appendix B17.-Page 4 of 4**

Location	Species	Days Fished	SE	n
Other Cook Inlet/Outer Gulf Coast west of Gore Pt.	Dolly Varden	1,430	1,125	9
	Halibut	9,759	1,972	69
	Lingcod	1,270	641	7
	Rockfish	1,676	665	12
	Other	1,523	1,115	9
	Total	15,658	3,610	106
Resurrection Bay	Chinook salmon	21,067	4,618	145
	Pink salmon	8,458	1,832	54
	Sockeye salmon	6,850	1,647	51
	Coho salmon	49,196	5,787	282
	Other	14,706	3,230	96
	Total	100,276	13,278	628
Other Gulf Coast east of Gore Pt.	Dolly Varden	2,084	1,194	6
	Halibut	7,025	1,468	53
	Lingcod	2,900	935	23
	Rockfish	3,679	1,084	28
	Other	1,611	750	10
	Total	17,299	3,961	120

**Appendix B18.-Kenai Peninsula saltwater charter boat sport finfish targeted days fished, 1994 and 1995.**

Location	Species	Days Fished	SE	
<b>1994</b>				
Anchor R., Whiskey Gulch, and Deep Cr.	Chinook salmon on or before 6/30	19,179	3,304	21
	Chinook salmon after 6/30	7,185	1,506	8
	Halibut	21,234	2,183	29
	Other	1,388	452	1
	Total	48,986	5,313	61
Tutka Lagoon	Pink salmon	320	235	
	Halibut	144	79	
	Other	57	35	
	Total	520	273	
Halibut Cove	Chinook salmon	966	359	1
	Halibut	3,637	697	6
	Other	-	-	
	Total	4,603	992	8
Homer Spit	Salmon	4,251	715	6
	Halibut	15,144	1,503	30
	Other	672	227	1
	Total	20,068	2,019	38
Other Kachemak Bay	Halibut	16,046	1,615	31
	Other	1,573	559	2
	Total	17,618	1,865	34

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**Appendix B18.-Page 2 of 4.**

Location	Species	Days Fished	SE	n
Other Cook Inlet/Outer Gulf West of Gore Point	Dolly Varden	87	2,367	189
	Halibut	13,234	568	8
	Lingcod	945	1,598	12
	Rockfish	2,291	1,586	9
	Other	2,125	5,763	221
	Total	18,682	2,367	189
Resurrection Bay	Chinook salmon	2,242	783	27
	Pink salmon	1,291	669	11
	Sockeye salmon	1,056	644	6
	Coho salmon	5,183	1,068	66
	Other	6,109	1,116	86
	Total	15,881	3,867	196
Other Gulf Coast East of Gore Point	Dolly Varden	371	182	5
	Halibut	5,340	928	86
	Lingcod	1,670	599	17
	Rockfish	1,488	423	26
	Other	615	314	8
	Total	9,483	1,845	142

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**Appendix B18.-Page 3 of 4.**

Location	Species	Days Fished	SE	n
<b>1995</b>				
Anchor R., Whiskey Gulch, and Deep Cr.	Chinook salmon on or before 6/30	8,708	1,435	127
	Chinook salmon after 6/30	6,301	1,518	82
	Halibut	19,379	3,016	266
	Other	765	248	15
	<b>Total</b>	<b>35,152</b>	<b>5,318</b>	<b>490</b>
Tutka Lagoon	Pink salmon	383	336	2
	Halibut	28	26	1
	Other	65	56	1
	<b>Total</b>	<b>477</b>	<b>359</b>	<b>4</b>
Halibut Cove	Chinook salmon	1,360	425	20
	Halibut	3,658	663	69
	Other	474	281	5
	<b>Total</b>	<b>5,492</b>	<b>1,129</b>	<b>94</b>
Homer Spit	Salmon	3,316	623	61
	Halibut	13,037	1,919	270
	Other	322	234	4
	<b>Total</b>	<b>16,675</b>	<b>2,401</b>	<b>335</b>
Other Kachemak Bay	Halibut	21,822	4,113	317
	Other	2,482	753	28
	<b>Total</b>	<b>24,304</b>	<b>4,621</b>	<b>345</b>

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**Appendix B18.-Page 4 of 4.**

Location	Species	Days Fished	SE	n
Other Cook Inlet/Outer Gulf Coast west of Gore Pt.	Dolly Varden	294	150	5
	Halibut	11,909	2,181	197
	Lingcod	353	179	7
	Rockfish	198	143	3
	Other	98	66	2
	<b>Total</b>		<b>12,852</b>	<b>2,464</b>
Resurrection Bay	Chinook salmon	2,264	509	34
	Pink salmon	337	131	8
	Sockeye salmon	446	178	9
	Coho salmon	5,281	885	83
	Other	4,182	723	75
	<b>Total</b>		<b>12,510</b>	<b>1,795</b>
Other Gulf Coast east of Gore Pt.	Dolly Varden	28	26	1
	Halibut	5,046	770	100
	Lingcod	744	219	16
	Rockfish	918	255	19
	Other	230	90	6
	<b>Total</b>		<b>6,967</b>	<b>1,087</b>

**Appendix B19.-Kodiak Area sport finfish targeted days fished, 1994 and 1995.**

Location	Species	Days Fished	SE	n
<b>1994</b>				
Afognak/Shuyak Islands	Coho salmon	5,278	1,829	25
	Steelhead	447	232	4
	Other	4,879	1,234	33
	Total	10,604	2,551	62
Karluk and Red rivers	Chinook salmon	7,851	1,512	45
	Steelhead	1,462	471	15
	Other	3,061	916	21
	Total	12,374	2,322	81
Kodiak road system saltwater shoreline	Dolly Varden	8,446	2,535	40
	Pink salmon	11,657	2,665	46
	Sockeye salmon	8,973	2,450	35
	Coho salmon	17,316	3,148	68
	Other	8,470	2,527	32
	Total	54,862	11,732	221
Kodiak road system streams	Dolly Varden	10,848	2,535	51
	Pink salmon	11,727	3,000	43
	Sockeye salmon	13,315	2,746	55
	Coho salmon	19,509	3,228	72
	Other	3,499	1,815	12
	Total	58,897	10,683	233

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**Appendix B19.-Page 2 of 2.**

Location	Species	Days Fished	SE	n
<b>1995</b>				
Afognak/Shuyak Islands	Coho salmon	1,396	451	13
	Steelhead	57	32	2
	Other	4,131	1,940	21
	<b>Total</b>	<b>5,583</b>	<b>2,271</b>	<b>36</b>
Karluk and Red rivers	Chinook salmon	6,641	2,076	36
	Steelhead	2,767	1,061	12
	Other	4,000	2,295	15
	<b>Total</b>	<b>13,408</b>	<b>4,643</b>	<b>63</b>
Kodiak road system saltwater shoreline	Dolly Varden	10,776	2,958	35
	Pink salmon	14,089	3,164	53
	Sockeye salmon	5,355	1,360	31
	Coho salmon	14,605	2,771	65
	Other	6,081	1,796	30
	<b>Total</b>	<b>50,905</b>	<b>9,338</b>	<b>214</b>
Kodiak road system streams	Dolly Varden	11,834	2,887	49
	Pink salmon	13,165	2,849	50
	Sockeye salmon	8,385	2,050	41
	Coho salmon	18,392	3,839	69
	Other	5,305	2,006	17
	<b>Total</b>	<b>57,081</b>	<b>10,823</b>	<b>226</b>

**Appendix B20.-Naknek River Drainage-Alaska Peninsula area sport finfish targeted days fished, 1994 and 1995.**

Location	Species	Days Fished	SE	n
<b>1994</b>				
Adak Island	Dolly Varden	1,800	1,159	5
	Pink salmon	1,200	549	7
	Other	771	363	6
	Total	3,771	1,809	18
Brooks River	Sockeye salmon	2,018	640	24
	Other	4,909	1,165	41
	Total	6,927	1,651	65
Naknek River	Chinook salmon	12,514	3,185	53
	Rainbow trout	10,630	2,764	56
	Coho salmon	4,315	1,426	25
	Other	6,245	3,051	25
	Total	33,703	8,618	159
Ugashik River	Arctic grayling	144	73	4
	Other	440	218	6
	Total	583	230	10

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**Appendix B20.-Page 2 of 2.**

Location	Species	Days Fished	SE	n
<b>1995</b>				
Adak Island	Dolly Varden	2,826	1,416	6
	Pink salmon	1,639	807	7
	Other	2,972	1,599	8
	Total	7,438	3,404	21
Brooks River	Sockeye salmon	1,828	494	25
	Other	1,930	567	23
	Total	3,758	940	48
Naknek River upstream section	Chinook salmon	1,164	359	14
	Rainbow trout	5,805	1,517	32
	Coho salmon	972	427	8
	Other	901	424	9
	Total	8,843	2,095	63
Ugashik River	Arctic grayling	230	120	5
	Other	590	337	5
	Total	820	378	10
Naknek River downstream section	Chinook salmon	8,460	1,668	58
	Rainbow trout	3,987	2,125	22
	Coho salmon	4,521	2,233	17
	Other	885	364	9
	Total	17,852	5,026	106

**Appendix B21.-Kvichak River Drainage area sport finfish targeted days fished, 1994 and 1995.**

Location	Species	Days Fished	SE	n
<b>1994</b>				
Kvichak River	Sockeye salmon	4,087	1,177	33
	Other	7,414	1,453	51
	Total	11,501	2,290	84
Lower Talarik Creek	Rainbow trout	1,128	299	18
	Other	261	163	4
	Total	1,390	414	22
Newhalen River	Sockeye salmon	4,700	1,039	36
	Other	1,193	388	24
	Total	5,893	1,231	60
<b>1995</b>				
Kvichak River	Sockeye salmon	2,977	733	30
	Other	5,312	1,318	36
	Total	8,289	1,800	66
Lower Talarik Creek	Rainbow trout	1,477	585	17
	Other	355	364	2
	Total	1,832	883	19
Newhalen River	Sockeye salmon	3,861	972	39
	Other	1,825	761	15
	Total	5,686	1,506	54

**Appendix B22.-Nushagak area sport finfish targeted days fished, 1994 and 1995.**

Location	Species	Days Fished	SE	n
<b>1994</b>				
Agulowak/Agulukpak rivers	Rainbow trout	3,663	1,539	25
	Other	3,319	1,115	20
	Total	6,981	2,463	45
Nushagak/Mulchatna rivers	Chinook salmon	17,728	2,569	97
	Coho salmon	1,480	489	14
	Other	7,550	1,995	41
	Total	26,758	4,362	152
Togiak River	Coho salmon	1,911	909	13
	Other	2,360	1,001	15
	Total	4,271	1,577	28
Wood River lakes system	Arctic grayling	3,501	2,107	15
	Other	3,282	1,050	25
	Total	6,783	3,051	40
<b>1995</b>				
Agulowak/Agulukpak rivers	Rainbow trout	1,247	441	16
	Other	1,612	599	17
	Total	2,860	993	33
Nushagak/Mulchatna rivers	Chinook salmon	11,931	2,230	76
	Coho salmon	2,553	965	17
	Other	4,722	1,224	29
	Total	19,206	3,603	122
Togiak River	Coho salmon	472	222	6
	Other	457	297	6
	Total	929	371	12
Wood River lakes system	Arctic grayling	1,158	461	13
	Other	4,170	1,271	28
	Total	5,328	1,492	41

**Appendix B23.-Upper Copper/Upper Susitna Drainages area sport finfish targeted days fished, 1994 and 1995.**

Location	Species	Days Fished	SE	n
<b>1994</b>				
Gulkana River	Arctic grayling	12,100	2,092	95
	Chinook salmon	21,939	2,714	170
	Steelhead/rainbow trout	6,131	1,384	52
	Sockeye salmon	9,915	1,825	79
	Other	1,178	445	11
	Total	51,263	6,166	407
Klutina River	Chinook salmon	7,723	1,447	80
	Other	5,088	1,032	44
	Total	12,811	2,155	124
Glennallen area lake fishing	Burbot	6,039	1,804	35
	Lake trout	18,237	3,811	109
	Other	15,121	2,802	96
	Total	39,398	7,310	240
<b>1995</b>				
Gulkana River	Arctic grayling	13,969	2,278	90
	Chinook salmon	19,541	2,375	173
	Rainbow trout/steelhead	6,877	1,315	50
	Sockeye salmon	8,313	1,666	65
	Other	2,823	798	22
	Total	51,523	6,368	400
Klutina River	Chinook salmon	10,188	1,896	91
	Other	5,689	1,435	44
	Total	15,877	3,052	135
Glennallen area lake fishing	Burbot	4,172	1,154	24
	Lake trout	11,062	1,939	72
	Other	11,241	1,831	91
	Total	26,476	3,939	187



**Appendix B24.-Tanana River Drainages area sport finfish targeted days fished, 1994 and 1995.**

Location	Species	Days Fished	SE	n
<b>1994</b>				
Birch Lake	Ice fishing all species	5,392	1,438	43
	Open water fishing all species	10,414	2,405	72
	Total	15,805	3,653	115
Chatanika River	Total	12,429	2,877	90
Delta Clearwater River	Ice fishing all species	5,370	1,618	43
	Open water fishing all species	15,314	3,931	98
	Total	20,684	4,897	141
Quartz Lake	Arctic grayling	6,565	1,548	48
	Chum salmon	1,488	745	12
	Other	6,101	1,356	57
	Total	14,154	2,899	117
Salcha River	Ice fishing all species	2,164	932	8
	Open water fishing all species	6,407	1,427	43
	Total	8,571	2,015	51
Tanana R (Delta Junction to Nenana)	Ice fishing all species	395	221	6
	Open water fishing all species	-	-	
	Total	395	221	6
Volkmar Lake	Total	27,938	4,046	140
Chena River (incl. Badger Slough)	Ice fishing all species	2,393	898	24
	Open water fishing all species	7,306	1,616	51
Chena River (incl. Badger Slough)	Chum salmon	1,757	700	10
	Chinook salmon	10,867	1,858	78
	Arctic grayling	27,298	5,511	115
	Northern pike	9,017	2,206	41
	Other	8,694	2,377	42
	Total	67,333	10,641	361

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**Appendix B24.-Page 2 of 3.**

Location	Species	Days Fished	SE	n
<b>1995</b>				
Birch Lake	Ice fishing all species	4,776	1,442	44
	Open water all species	10,447	2,203	91
	Total	15,224	2,907	135
Piledriver Slough	Arctic grayling	7,882	1,302	60
	Rainbow trout	7,547	1,840	48
	Other	2,696	950	19
	Total	18,124	3,369	127
Tangle Lakes	Arctic grayling	7,472	1,374	69
	Lake trout	5,228	1,202	45
	Other	2,007	689	15
	Total	14,706	2,901	129
Other stocked lakes	Ice fishing all species	3,787	1,158	22
	Open water all species	24,696	4,330	107
	Total	28,484	4,615	129
Lower Chatanika River	Arctic grayling	5,551	1,245	37
	Other	7,462	2,320	44
	Total	13,013	3,565	81
Upper Chatanika River	Arctic grayling	7,780	2,380	56
	Other	3,032	1,005	18
	Total	10,812	3,385	74
Chena Lakes	Ice fishing all species	5,681	1,254	44
	Open water all species	14,322	5,997	82
	Total	20,002	6,184	126

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**Appendix B24.-Page 3 of 3.**

Location	Species	Days Fished	SE	n
Chena River	Arctic grayling	20,318	3,700	114
	Northern pike	6,157	2,803	35
	Other	1,422	474	16
	Salmon	25,108	4,046	138
	Burbot	3,890	1,349	21
	Total	56,896	9,820	324
Delta Clearwater River	Arctic grayling	6,402	1,418	49
	Coho salmon	1,837	510	25
	Other	611	288	7
	Total	8,850	1,673	81
Quartz Lake	Ice fishing all species	4,409	1,015	48
	Open water all species	11,798	2,703	87
	Total	16,207	3,199	135
Salcha River	Arctic grayling	8,108	1,784	50
	Other	2,194	691	18
	Salmon	10,400	1,665	83
	Total	20,701	3,162	151
Tanana R (Delta Jct to Nenana)	Ice fishing all species	3,777	1,236	13
	Open water all species	12,636	2,802	60
	Total	16,413	3,115	73
Volkmar Lake	Ice fishing all species	480	271	5
	Open water all species	-	-	
	Total	480	271	5

**Appendix B25.-Kuskokwim – Goodnews Drainages sport finfish targeted days fished, 1994 and 1995.**

Location	Species	Days Fished	SE	n
<b>1994</b>				
Kanektok River	Chinook salmon	3,743	980	21
	Rainbow trout	2,280	810	12
	Coho salmon	2,798	922	13
	Other	2,846	952	13
	Total	11,667	2,799	59
<b>1995</b>				
Kanektok River	Chinook salmon	4,665	1,441	21
	Rainbow trout	3,352	1,134	17
	Coho salmon	2,662	1,154	12
	Other	5,415	3,106	13
	Total	16,094	6,084	63

**Appendix B26.-Seward Peninsula – Norton Sound Drainages sport finfish targeted days fished, 1994 and 1995.**

Location	Species	Days Fished	SE	n
<b>1994</b>				
Kuzitrin River	Northern pike	2,788	1,493	8
	Other	2,713	1,561	7
	Total	5,501	3,046	15
Pilgrim River	Northern pike	2,134	1,277	6
	Other	2,638	1,409	8
	Total	4,773	2,638	14
Unalakleet and North rivers	All salmon	1,713	803	11
	Other	915	549	6
	Total	2,629	1,305	17
<b>1995</b>				
Kuzitrin River	Northern pike	537	254	5
	Other	1,059	414	8
	Total	1,596	581	13
Pilgrim River	Northern pike	452	252	4
	Other	1,272	609	6
	Total	1,724	756	10
Unalakleet and North rivers	All salmon	3,416	1,590	15
	Other	2,189	1,443	7
	Total	5,605	2,980	22

**Appendix B27.-Northwest Alaska Drainages sport  
finfish targeted days fished, 1994 and 1995.**

Location	Species	Days Fished	SE	n
<b>1994</b>				
Kobuk River	Sheefish	1,473	675	8
	Other	1,394	753	7
	Total	2,867	1,414	15
Noatak River	Arctic char	745	333	7
	Other	179	139	3
	Total	924	416	10
<b>1995</b>				
Kobuk River	Sheefish	2,764	1,310	10
	Other	2,113	809	10
	Total	4,877	2,052	20
Noatak River	Arctic char	1,877	971	6
	Other	2,460	1,082	7
	Total	4,338	1,811	13