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# **Testing of a Single-Booklet Questionnaire Format for the Alaska Statewide Harvest Survey**

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Divisions of Sport Fish and Commercial Fisheries



## Symbols and Abbreviations

The following symbols and abbreviations, and others approved for the Système International d'Unités (SI), are used without definition in the following reports by the Divisions of Sport Fish and of Commercial Fisheries: Fishery Manuscripts, Fishery Data Series Reports, Fishery Management Reports, and Special Publications. All others, including deviations from definitions listed below, are noted in the text at first mention, as well as in the titles or footnotes of tables, and in figure or figure captions.

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

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FORMAT FOR THE ALASKA STATEWIDE HARVEST  
SURVEY**

by  
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# ABSTRACT

As reported by Clark et al. (2007), a review team met October 2004 through June 2005 to review the Statewide Harvest Survey program and make recommendations for the future. A series of changes to the program were recommended by the review team, including change to the survey questionnaires, with the goal of improving the program's ability to meet the information needs of the Division of Sport Fish into the future. A redesign of the survey questionnaire was planned, with the goal of combining the two current survey questionnaire formats into a single-booklet questionnaire that would meet all the essential information needs of the existing two-booklet approach. It was hoped that the single-booklet survey could reduce the complexity and length of the survey questionnaire, improve response rates, and provide more accurate estimates of guided/nonguided (charter/noncharter) sport fishing trips. This report summarizes the pre-testing of the new hybrid survey questionnaire with focus groups and the results of a large-scale field test of the survey in 2009 concurrent with the standard two-booklet approach.

Key words: Alaska Statewide Harvest Survey, sport fishing effort, catch, harvest; questionnaire design, hybrid survey test.

## INTRODUCTION

Since 1977, the Division of Sport Fish has relied on the Alaska Statewide Harvest Survey (SWHS) to produce annual estimates of sport fishing effort, catch, and harvest in Alaska waters to guide fisheries management decisions. Over the past three decades, the SWHS project has expanded in scope and complexity as demand for additional information from the survey project has increased. A program review of the SWHS that began in 2001 resulted in the formation of a SWHS Review Team in 2003. This team was tasked with the overall goal of strategically planning the SWHS to address the future needs of the division. The SWHS Review Team developed both short- and long-term recommendations for the program (Clark et al. 2007). The recommendations describe changes to the methodology of the survey and potential benefits of the proposed changes:

- Improve angler recall;
- Reduce complexity and length of the survey questionnaire(s);
- Improve response rates;
- Address issues related to measurement error from use of two-survey questionnaires; and
- Modernize the survey delivery, data collection, and data management systems.

The SWHS Review Team agreed that the Division should examine the possibility of using a single-booklet questionnaire for the annual SWHS. At the time of the review, the approach was to combine data from two different survey booklet formats (standard and supplementary)<sup>1</sup> to produce sport fishing effort, catch, and harvest estimates (see Jennings et al. 2011 for a detailed description of the SWHS methodology). The SWHS Review Team recommended testing a single-booklet questionnaire approach with the following goals:

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<sup>1</sup> The standard survey questionnaire lists common fishing sites by survey area. It is a 48-page booklet with included area maps that has been in use since 1977. The supplementary survey questionnaire (in use since 1992) does not list the sites by survey area. Instead, respondents are asked to write in their fishing locations by water type (saltwater/freshwater) and report their guided and unguided effort, catch and harvest in different tables. A separate mapsite booklet is provided with the supplementary questionnaire to aid the respondent in identifying their specific fishing locations. For our purposes in this report, the terms 'standard' and 'supplementary' will be used throughout.

- Improve guided/non-guided estimates; all respondents would report their guided and non-guided (charter/non-charter) effort, catch, and harvest when responding to the survey (in the two-survey design only the supplementary questionnaire requested participants to report their guided and unguided effort, catch, and harvest);
- Reduce potential bias and survey error in SWHS estimates that might have resulted from the process of combining data from two SWHS survey questionnaires that differed somewhat in how respondents were asked to report their sport fishing activity;
- Improve the overall SWHS response rate by using a shorter, smaller booklet format that may be less complex for potential survey participants to navigate and complete; and
- Reduce the total cost of the SWHS program (printing, postage, data processing, and contract services costs) by going from the current two-questionnaire approach to a single-questionnaire approach.

In January 2009, SWHS staff and the project biometrician conducted an analysis to compare select historical estimates of sportfishing harvest and effort generated by the supplementary SWHS survey (which provides both guided and unguided effort, catch, and harvest estimates) to estimates generated by the combined standard and supplementary survey data for the years 2003–2007. This analysis showed that survey response rates were similar across the two survey types (supplementary and standard) within strata (anglers from Alaska and from the rest of the U.S.). The analysis also showed that point estimates of angler effort and harvest for select species were generally similar (i.e., the 95% confidence intervals of the estimates from supplementary survey and the combined supplementary and standard surveys overlapped). Based upon this analysis, SWHS project staff recommended that a single-questionnaire format that combines all of the key data elements of the current standard and supplementary SWHS booklets be developed and then field-tested alongside the existing SWHS for the 2009 survey year. The new single-questionnaire format (herein referred to as the “hybrid” booklet) was developed by SWHS project staff in the spring of 2009. This report summarizes the pre-testing of the new hybrid survey questionnaire and the results of a large-scale field test of the new hybrid survey in 2009 that compared select estimates from the hybrid survey against those generated from the 2009 SWHS (the two-questionnaire approach).

## **OBJECTIVES**

The objectives of this project were as follows:

- 1) Design a single-booklet SWHS questionnaire (hybrid) that combined the key data elements of the standard and supplementary SWHS questionnaires.
- 2) Conduct a field test of the hybrid survey by mailing it to a sufficient sample of 2009 Alaska angler households using the same approach and timing as the 2009 SWHS, so that survey response metrics and select estimates could be compared.
- 3) Compare angler effort, total harvest, and catch estimates generated by the hybrid survey questionnaire for select species to similar estimates generated by 2009 SWHS survey questionnaires, for similarity in point estimates and for 95% confidence intervals.
- 4) Recommend whether to switch to a single-booklet questionnaire format for the 2011 SWHS survey year based upon the results of the comparative analysis and a summary of the advantages and disadvantages of switching to the single-booklet format.

# METHODS

## SURVEY DESIGN

A draft single-booklet questionnaire was developed for the hybrid survey combining all of the key data elements from the existing standard and supplementary SWHS questionnaires. The hybrid survey questionnaire was developed by Research and Technical Services (RTS) staff and internally reviewed for completeness between April and June 2009. Following initial development and internal review of the draft questionnaire, RTS issued a request for proposals for survey questionnaire pre-testing by anglers. Alaska Department of Fish and Game (ADF&G) entered into a contract awarded to Craciun Research Group LLC in June 2009 to conduct qualitative pre-tests of the draft hybrid survey using two focus groups of 2009 Anchorage resident anglers (composed of an avid<sup>2</sup> angler group and a less-avid<sup>3</sup> angler group) and personal interviews with 12 nonresident anglers opportunistically selected at local businesses and points of entry to Alaska. A copy of the draft hybrid survey questionnaire and associated instructions, as well as reports from Craciun Research on the results of the draft hybrid survey pre-testing, are included in Appendix A. Based upon the input received from the focus group pre-tests of the hybrid survey package and from the contractor, revisions were made to the draft hybrid survey questionnaire and associated cover letters so a larger, mailed test of the hybrid survey could be conducted in the fall of 2009 alongside the 2009 SWHS administration.

## SURVEY TESTING

The final version of the hybrid survey questionnaire (Appendix B) was field-tested by mailing it to a sample of 10,000 Alaska and Lower 49 (all other U.S. states) households who had at least one person who purchased a 2009 sport fishing license after July 1, 2009 (Alaska residents), and July 17, 2009 (Lower 49 anglers). A complete side-by-side test of the hybrid survey against the current SWHS survey approach was not logistically or financially feasible given the scale of the SWHS data collection effort. A sample of 10,000 was chosen under the assumption that it would provide a sufficient response set to allow for the development of estimates at the region and SWHS survey area level that could be compared to a similar subset of responses from the 2009 SWHS survey. In addition, the hybrid survey pretesting phase was not totally complete until late September 2009, which was too late in the year to be conducted alongside the early mailing of the 2009 SWHS. For these reasons, the hybrid test survey was administered at the same time as the late<sup>4</sup> mailing sample of the 2009 SWHS for comparison to only the late mailing 2009 SWHS results. The sample of 10,000 Alaska and Lower 49 households for the hybrid survey was mutually exclusive of households that were selected to receive either the standard or supplementary survey in 2009.

The same methodology that was used for administration of the late mailings of the 2009 SWHS (Jennings et al. 2011) was used for administration of the hybrid test survey. As is done with the supplementary SWHS questionnaire, two versions of the hybrid survey questionnaire were developed, one with the charter fishing effort and harvest appearing first in order on the detailed harvest reporting pages (pages 6–11) and the second with non-charter fishing information requested first (see Appendix B). This is done to avoid potential bias in survey estimates that might

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<sup>2</sup> Anglers who fished 10 or more days in 2009.

<sup>3</sup> Anglers who fished less than 10 days in 2009.

<sup>4</sup> Licenses purchased after July 1 for Alaska residents and July 17 for nonresidents.

result from respondents possibly reporting charter and non-charter fishing activity in the first grid that they encounter in the questionnaire. As with the 2009 SWHS supplementary survey, the hybrid survey packet included a cover letter, a map booklet, and a survey booklet with a unique cover photo to aid internal survey processing. The mailing schedule for the hybrid survey mirrored that of the late SWHS survey mailing in 2009. Data handling (data entry, coding, verification, editing, etc.) for the hybrid survey employed the same techniques as the 2009 SWHS (Jennings et al. 2011) so that selected estimates from the hybrid survey could be compared to the late mailing estimates generated by the normal 2009 SWHS survey booklets.

## COMPARATIVE ANALYSES OF SURVEY ESTIMATES

A preliminary matrix of possible comparative analyses was developed in the planning stages of the mailed hybrid survey test. Only a partial side-by-side test (comparing estimates generated from the late-mailing of the 2009 standard and supplementary surveys) could be done due to cost and logistical considerations. Survey metrics that were compared included the following:

1. Overall survey response rate for each survey type (hybrid vs. standard, supplementary, and combined standard + supplementary) for the years 2006–2009.
2. The survey response rate by strata (AK anglers and Lower 49 anglers) for each survey type (hybrid vs. standard, supplementary, and combined standard + supplementary) for the years 2006–2009.

In addition to comparing survey response rates, point estimates and 95% confidence intervals of the following variables were compared across the different survey types:

1. Total fishing effort (angler-days fished)
  - a. statewide
  - b. by management region (Figure 1; Table 1) and water type (freshwater, saltwater)
  - c. by SWHS survey area (A–Z; Figure 1; Table 1) freshwater and saltwater combined
2. Total harvest – for selected fresh and saltwater species commonly harvested by anglers as indicated in the SWHS
  - a. statewide (by water type where harvest occurs in freshwater and saltwater)
  - b. by management region and water type (freshwater, saltwater)
  - c. by SWHS survey area (A–Z) freshwater and saltwater combined
3. Total catch – for selected freshwater species that historically exhibit low harvest rates but are popular as catch-and-release species in many fisheries, including rainbow trout *Oncorhynchus mykiss*, Dolly Varden/Arctic char *Salvelinus malma* and *S. alpinus*, and Arctic grayling *Thymallus arcticus*
  - a. by management region
  - b. by SWHS survey area (A–Z), freshwater only

The 2009 hybrid survey point estimates, standard errors, and 95% confidence intervals were generated using the same bootstrap estimation procedures used for the 2009 final SWHS



estimates (Jennings et al 2011). Because the hybrid survey estimates were based on a sample of 10,000 Alaska and Lower 49 households selected from the 2009 late mailing list, the appropriate comparisons to determine if the hybrid survey produced similar survey metrics and estimates required generating 2009 SWHS estimates for a similar sample. Thus, the 2009 standard and supplementary SWHS estimates used for comparative analyses were generated from randomly selected 10,000 late license purchase Alaska and Lower 49 strata households in the same proportion as AK and Lower 49 strata households used in the mailed hybrid test (henceforth referred to as reduced-sample data sets).

To make detailed comparisons between the hybrid survey and the normal SWHS estimates (standard, supplementary), three sets of bootstrapped 2009 SWHS estimates, each based on the reduced-sample data sets of 10,000 late mailing households, were generated:

1. Combined standard and supplementary survey estimates
2. Supplementary survey only 2009, and
3. Standard survey only 2009.

In addition, bootstrapped estimates of angler effort at the statewide level were generated from reduced-sample data sets for the combined SWHS late mailing households (Standard +Supplementary) for the years 2006–2008 (Jennings et al. 2009, 2010a-b), to examine whether the confidence intervals surrounding the point estimates for the hybrid survey were similar to the confidence intervals of similar estimates for the past four years of the SWHS (2006–2009; Tables 2–23; Figures 2–27).

The bootstrapped estimates of total angler effort (days fished), total harvest, and total catch for selected species from the hybrid survey and 2006–2009 reduced-sample SWHS data sets were compared for similarity in point estimate and degree of overlap in 95% confidence interval in graphical format. Estimates from the hybrid test survey were considered similar to other SWHS estimates when the hybrid survey point estimate fell within the 95% confidence interval of the comparable SWHS estimate or when 95% confidence intervals of the two point estimates overlapped. In cases where comparable estimates differed such that the 95% confidence intervals did not overlap, the differences were investigated further through finer-scale analysis to develop hypotheses about the possible source of the difference (i.e., a questionnaire effect caused by how participants were asked to fill out the survey, such as a differing page order or page position).

The survey estimate comparisons for each variable and species were conducted at the statewide, regional, and SWHS survey area level, but not to individual location/fishery due to small response set sizes at this finer geographic scale. For the purposes of this analysis, a minimum of 30 responses for the hybrid and combined SWHS surveys at the specified geographic level was considered necessary for comparative analysis and inclusion in this report. For a number of freshwater species there were an insufficient number of responses from the hybrid survey to generate reasonable estimates of total harvest for comparison to the 2009 SWHS. This is probably due to the fact that many freshwater species tend to have low harvest and high catch-and-release rates, and the comparison test was only conducted between the late mailing SWHS—not the entire annual survey. As a result, only the total catch estimate of selected freshwater species at the region and SWHS survey area levels were compared to those generated from the 2009 SWHS for the purpose of this analysis. Species for which total catch estimates were compared included rainbow trout, Dolly Varden/Arctic char, and Arctic grayling. Total harvest

estimates for these and other freshwater species were not compared across survey types. Species for which comparisons of total harvest were possible at the statewide, regional, and SWHS survey area levels included the following: Pacific halibut *Hippoglossus stenolepis*, rockfish species *Sebastes* spp., coho salmon *O. kisutch*, sockeye salmon *O. nerka*, and pink salmon *O. gorbuscha*. Chinook salmon *O. tshawytscha* total harvest estimates could not be compared because most Chinook salmon sport fisheries occur primarily early in the summer season and the sample for this test was based on licenses purchased after July 1, 2009, resulting in a small response set for Chinook salmon estimates.

Although comparisons of the hybrid survey estimates to independent ADF&G estimates of effort, catch, or harvest from guide logbooks (Sigurdsson and Powers 2010) or onsite creel surveys were considered, we were unable to make exact comparisons in this study because it was not possible to identify a sample of records from the Guide Logbook Database or onsite creel survey sources that reflected the hybrid survey sample frame (i.e., composed of only “late” license purchasing Alaska resident and Lower 49 households).

## **RESULTS**

### **HYBRID SURVEY ESTIMATES COMPARED TO 2009 SWHS**

It is important to note that the combined SWHS estimates and associated 95% confidence limits reported in this comparative study are different from the final 2009 SWHS estimates reported in Jennings et al. (2011). The SWHS estimates in this report are based on a reduced-sample dataset of 10,000 records and include only the late mailing responses to the SWHS in order to be directly comparable to the hybrid survey estimates.

### **SURVEY RESPONSE RATE COMPARISONS**

The overall response rate for the 2009 hybrid survey mailed test (40.2%) was similar to the comparable overall (late mailing) response rates for the standard and supplementary surveys in 2009 (40.6% and 40.8% respectively), as well as the combined SWHS (late mailing) survey response rate (40.7%; Table 2). There was less than 0.6% difference in the 2009 survey response rates across hybrid, standard, supplementary, and combined standard and supplementary surveys (Figure 2).

The hybrid survey questionnaire is most similar in format to the supplementary SWHS questionnaire, in which respondents are given a map site booklet and asked to fill in the locations and location codes where their angling effort occurred prior to reporting effort, catch, and harvest. Thus, the hybrid survey response rates for Alaska (residents) and Lower 49 (nonresident) angler strata were also compared to the late mailing supplementary survey response rates for these primary strata. The Alaska resident strata response rate from the 2009 hybrid survey was 37.2% and the 2009 late mailing supplementary survey Alaska strata response rate was 37.4% , a difference of less than 0.2% (Table 3). The Lower 49 strata response rate for the hybrid survey was 41.7% and the 2009 late mailing supplementary survey Lower 49 response rate was 42.5%, less than 0.8% different (Table 3).

The late mailing overall response rate, and the response rate for key strata for both the standard and supplementary SWHS, was somewhat higher in 2009 than in the previous three years (2006–2008). This increase in response rate was also reflected in the 2009 hybrid survey test response rate results (Figures 2 and 3).

## COMPARISON OF ANGLER EFFORT ESTIMATES

### Statewide Angler Days

Estimates of total angler-days fished statewide from the 2009 hybrid survey were compared to the late mailing combined (standard + supplementary) SWHS survey estimates for the years 2006–2009. The point estimate and 95% confidence interval of total angler-days fished statewide from the hybrid survey were very similar to the 2009 combined SWHS survey estimate (Figure 4), with the point estimates differing by less than 0.7% (Table 4). In addition, the relative size of the 95% confidence interval for the hybrid survey statewide estimate of angler-days fished was similar to the combined SWHS for three of the past four years (2006, 2008, 2009; Figure 4).

### Angler-Days by Water Type Within Management Regions

Point estimates and 95% confidence intervals of total angler-days fished by water type (freshwater, saltwater) within each sport fish management region (1 = Southeast, 2 = Southcentral, 3 = Arctic-Yukon-Kuskokwim) from the hybrid survey were also similar to those generated from the 2009 combined SWHS survey estimates (Table 5; Figures 5 and 6). The hybrid survey point estimates for freshwater and saltwater angler-days fished for Regions 1 and 2 fell within the 2009 combined SWHS 95% confidence limits and had similar 95% confidence intervals (Table 5). Only in the Arctic-Yukon-Kuskokwim region was the hybrid survey point estimate slightly outside the 2009 combined survey 95% confidence interval, which is probably due to the fact that there is a very small amount of saltwater fishing and a smaller response set for Region 3 freshwater fishing activity within the hybrid survey dataset.

### Angler Days by SWHS Survey Area

Point estimates and 95% confidence intervals of estimated total days fished by SWHS survey area (A–Z) from the hybrid survey were also found to compare similarly to the 2009 standard and supplementary survey estimates, with only one exception (survey area P–Cook Inlet/Kenai Peninsula). In 22 of the 25 survey areas, the 95% confidence interval of the hybrid survey estimate overlapped the 95% confidence interval of both the 2009 standard or supplementary estimate. In two additional survey areas, the 95% confidence interval of the hybrid survey estimate overlapped the 95% confidence interval of either the 2009 standard or supplementary estimate (Figure 7). In 18 of the 25 survey areas, the hybrid survey point estimate of total angler-days fished fell within the 95% confidence interval of either the 2009 standard or supplementary survey estimate. For most SWHS survey areas, the hybrid survey 95% confidence interval was very similar in size to the 95% confidence interval for the standard and supplementary survey estimate, with the exception of area H where the hybrid survey 95% confidence interval was larger than both the standard and supplementary survey 95% confidence interval, or areas R and F where the 95% CI for the hybrid survey was much smaller for the hybrid survey (Figure 7; Table 6).

In survey area P (Cook Inlet/Kenai Peninsula), the hybrid survey point estimate and 95% confidence interval was higher than both the standard and supplementary surveys (Figure 8). The project team hypothesized that this might be due to a page-order effect in the hybrid survey, because the Cook Inlet/Kenai Peninsula detailed harvest grid page appeared first in the hybrid survey. This possibility was investigated further and results are reported below (see section labeled *Examination of Hybrid Survey Estimates that Differed from 2009 SWHS*).

## COMPARISON OF TOTAL HARVEST FOR SELECT SPECIES

### Pacific Halibut

#### *Pacific Halibut Statewide*

Estimates of total Pacific halibut harvested statewide from the 2009 hybrid survey were compared to the late mailing combined (standard + supplementary) SWHS survey estimates for the years 2006–2009. The point estimate and 95% confidence interval of total Pacific halibut harvest statewide from the hybrid survey were very similar to the 2009 combined SWHS survey estimate, with the point estimates differing by about 5% (Table 7). In addition, the relative size of the 95% confidence interval for the hybrid survey statewide estimate of total Pacific halibut harvest was similar to the combined SWHS 95% confidence intervals for the past four years (2006–2009; Figure 9).

#### *Pacific Halibut Harvest within Management Regions*

Point estimates and 95% confidence intervals of total Pacific halibut harvest within each sport fish management region (1 = Southeast, 2 = Southcentral) from the hybrid survey were also similar to those generated from the 2009 combined SWHS survey estimates (Figure 10). The Region 2 hybrid survey point estimate of total harvest was 2.5% higher than the 2009 combined survey estimate and the 95% confidence interval was of similar size, whereas the Region 1 hybrid survey point estimate was 18% lower than the 2009 combined survey point estimate but the 95% confidence intervals overlapped (Table 8). No comparisons were made for Region 3 (Arctic-Yukon-Kuskokwim region) because there is very little halibut fishing effort in this region.

#### *Pacific Halibut Harvest by SWHS Survey Area and SWHS Survey Type*

Point estimates and 95% confidence intervals of estimated total Pacific halibut harvested from the hybrid survey by SWHS survey area (A-J, P, Q, and R) were found to compare similarly to the 2009 standard and supplementary SWHS survey estimates. In 10 of the 12 survey areas where Pacific halibut were harvested, the hybrid survey point estimate of total Pacific halibut harvested fell within the 95% confidence interval of either the 2009 standard or supplementary survey estimate, whereas in 11 of the 12 survey areas, the 95% confidence interval of the hybrid survey estimate overlapped the 95% confidence interval of both the 2009 standard and supplementary estimate (Figure 11). In addition, for most SWHS survey areas, the hybrid survey 95% confidence interval was very similar in size to the 95% confidence interval for the standard and supplementary survey estimate (Figure 11; Table 9). Differences in point estimates include area P, where the hybrid survey point estimate was higher than the 2009 standard and supplementary estimate; and areas E, J, and Q, where the point estimate was lower than the 2009 standard and supplementary estimate (Figure 11). The project team hypothesized that the observed differences might be due to a possible page-order effect in the hybrid survey since the Cook Inlet/Kenai Peninsula (area P) detailed harvest questions appeared first in the hybrid survey questionnaire and some anglers may have reported their halibut harvest on these pages instead of on the appropriate pages that appear later in the booklet (which cover survey areas J and Q). This possibility was investigated further and results are reported below (see section labeled *Examination of Hybrid Survey Estimates that Differed from 2009 SWHS*).

## **Coho Salmon**

### ***Coho Salmon Statewide Harvest***

Estimates of total coho salmon harvested statewide from the 2009 hybrid survey were compared to the late mailing combined (standard + supplementary) SWHS survey estimates for the years 2006–2009. Both the point estimate and 95% confidence interval of total coho salmon harvest statewide from the hybrid survey were very similar to the 2009 combined SWHS survey estimate, with the point estimates differing by less than 1% (Table 10, Figure 12). In addition, the relative size of the 95% confidence interval for the hybrid survey statewide estimate of total coho salmon harvest was similar to the combined SWHS 95% confidence intervals for the years 2006–2009 (Figure 12).

### ***Coho Salmon Harvest by Water Type within Management Regions***

Point estimates and 95% confidence intervals from the hybrid survey of total coho salmon harvested by water type (freshwater, saltwater) within each sport fish management region (1 = Southeast, 2 = Southcentral, 3 = Arctic-Yukon-Kuskokwim) were generally similar to those generated from the 2009 combined SWHS survey estimates. The hybrid survey point estimate of saltwater coho salmon harvest for Region 1 was about 1.2% lower than the 2009 combined SWHS survey point estimate and the 95% confidence intervals were nearly identical, whereas the hybrid survey estimate of saltwater coho salmon harvest within Region 2 was 16.8% lower than the 2009 combined survey point estimate, but their 95% confidence intervals overlapped (Table 11; Figure 13). Very few coho salmon are harvested in saltwater in Region 3, so no comparable point estimates were possible for saltwater. In freshwater, the total coho salmon harvest point estimates from the hybrid survey and 2009 combined SWHS survey for Region 1 and Region 2 were less than 3% different (2.9% and 1.2% respectively) and the 95% confidence intervals were of similar size (Table 11; Figure 14). In Region 2 (Southcentral), the hybrid survey estimate of total freshwater coho salmon harvested appeared slightly higher than the 2009 combined survey estimate, but the 95% confidence intervals overlapped (Figure 14).

### ***Coho Salmon Harvest by SWHS Survey Area and SWHS Survey Type***

Point estimates and 95% confidence intervals of estimated total coho salmon harvest by SWHS survey area (A–Z) from the hybrid survey were also found to compare very favorably to the 2009 standard and supplementary survey estimates. In all survey areas with coho salmon harvest reported (22 of 25), the 95% confidence interval of the hybrid survey estimate overlapped the 95% confidence interval of either the 2009 standard or supplementary estimate, whereas in 18 of 22 survey areas with coho harvest reported, the 95% confidence interval of the hybrid survey estimate overlapped the 95% confidence interval of both the 2009 standard and supplementary survey estimate (Figure 15; Table 12). In survey areas E, J, and K the hybrid survey point estimate for total coho harvest was lower than the corresponding point estimates from standard and supplementary survey and the 95% confidence interval of the hybrid survey estimate barely overlapped the corresponding 95% confidence intervals of the standard and supplementary estimates. In survey area P (Cook Inlet/Kenai Peninsula) the hybrid survey point estimate was higher than both the standard and supplementary surveys with some overlap in the 95% confidence interval with the standard survey (Figure 15). The differences observed in the estimates for survey areas J and P (from Region 2) were of most concern due to the larger number of total coho harvest (harvests in areas E and K are relatively small). The project team hypothesized that the differences observed across areas J and P might be due to a page-order

effect in the hybrid survey because the Cook Inlet/Kenai Peninsula detailed harvest questions appeared first in the hybrid survey and some anglers may have reported their coho harvest on these pages instead of on the appropriate pages that appear later in the booklet (which cover survey area J). This possibility was investigated further and results are reported below (see section labeled *Examination of Hybrid Survey Estimates that Differed from 2009 SWHS*).

## **Sockeye Salmon**

### ***Sockeye Salmon Statewide Harvest***

Estimates of total sockeye salmon harvested statewide from the 2009 hybrid survey were compared to the late mailing combined (standard + supplementary) SWHS survey estimates for the years 2006–2009. The point estimate and 95% confidence interval of total sockeye salmon harvest statewide from the hybrid survey were very similar to the 2009 combined SWHS survey estimate, with the point estimates differing by 8.1% (Figure 16; Table 13). In addition, the relative size of the 95% confidence interval for the hybrid survey statewide estimate of total sockeye salmon harvest was similar to the combined SWHS 95% confidence intervals for the past four years (2006–2009; Figure 16).

### ***Sockeye Salmon Harvest by Water Type within Management Regions***

Point estimates and 95% confidence intervals of total sockeye salmon harvested by water type (freshwater, saltwater) within each sport fish management region from the hybrid survey were similar to those generated from the 2009 combined SWHS survey estimates. The hybrid survey and 2009 combined SWHS survey point estimates of saltwater sockeye salmon harvest for Region 1 (Southeast) were nearly identical (about 1% different) and the 95% confidence intervals were similar. The hybrid survey estimate of saltwater coho salmon harvest within Region 2 (Southcentral) was substantially higher than the 2009 combined survey point estimate, but their 95% confidence intervals overlapped (Table 14; Figure 17). No sockeye salmon were reported as harvested in saltwater in Region 3, so no comparisons were possible.

Regional estimates of freshwater total sockeye salmon harvest from the hybrid survey and 2009 combined SWHS survey were also quite similar. The Region 1 (Southeast) and Region 3 (Arctic-Yukon-Kuskokwim) freshwater harvests of sockeye salmon were quite small, but the hybrid survey and combined SWHS survey point estimates were of similar magnitude and the 95% confidence intervals were of similar size and overlapped (Table 14). In Region 2 (Southcentral) where the majority of freshwater sockeye salmon harvest occurs, the hybrid survey and combined SWHS point estimates were only 5% different and the 95% confidence intervals were of similar size and overlapping (Table 14; Figure 18). Because freshwater sockeye salmon harvest was concentrated in very few SWHS survey areas in Alaska located in Region 2 (Southcentral), comparison of sockeye salmon harvest by SWHS area was not conducted. Instead, an analysis was conducted that compared the regional freshwater sockeye harvest estimates from the hybrid survey estimates to the 2009 standard and supplementary survey estimates (as opposed to the combined SWHS survey as a whole) with a breakdown for Kenai Peninsula within the region, finding that the hybrid survey point estimates were of the same magnitude and overlapped the 95% confidence intervals of both the 2009 standard and supplementary survey estimates (Table 15; Figure 19).

## **Rockfish**

### ***Rockfish Harvest Statewide***

Estimates of total rockfish harvested statewide from the 2009 hybrid survey were compared to the late mailing combined (standard + supplementary) SWHS survey estimates for the years 2006–2009. The point estimate and 95% confidence interval of total rockfish harvest statewide from the hybrid survey were very similar to the 2009 combined SWHS survey estimate, with the point estimates differing by less than 4% (Table 16). In addition, the relative size of the 95% confidence interval for the hybrid survey statewide estimate of total Pacific halibut harvest was similar to the combined SWHS 95% confidence intervals for the past four years (2006–2009) with the exception of 2008, which had a higher point estimate and wider 95% confidence interval (Figure 20).

### ***Rockfish Harvest within Management Regions***

Point estimates and 95% confidence intervals of total rockfish harvest within sport fish management regions 1 (Southeast) and 2 (Southcentral) from the hybrid survey were compared to those generated from the 2009 combined SWHS survey. The Region 1 (Southeast) hybrid survey point estimate of total rockfish harvest was approximately 15% lower than the 2009 combined SWHS estimate but was within the 95% confidence interval of the combined survey (Table 17; Figure 21). The 95% confidence interval of the hybrid estimate was of similar size to the combined survey estimate. The Region 2 (Southcentral) hybrid survey point estimate of total rockfish harvest was approximately 13% higher than the 2009 combined survey estimate but also was within the 95% confidence interval of the combined survey (Table 17; Figure 21). No comparisons were made for Region 3 (Arctic-Yukon-Kuskokwim) because there is little to no rockfish fishing effort or catch in this region.

### ***Rockfish Harvest by SWHS Survey Area and SWHS Survey Type***

Hybrid survey point estimates and 95% confidence intervals of estimated total rockfish harvested by SWHS survey area where rockfish occur (A-H, J, P, Q, and R) were also compared to the 2009 standard and supplementary SWHS survey estimates. Two survey areas (F and R) had very small response sets due to limited rockfish effort and harvest, so there were 10 SWHS survey areas with sufficient sample for comparisons (A-E, G-H, J, P, and Q). In 8 of the 10 survey areas where rockfish are harvested the hybrid survey point estimate fell within the 95% confidence interval of either the 2009 standard or supplementary survey estimate, whereas in all 10 survey areas, the 95% confidence interval of the hybrid survey estimate overlapped the 95% confidence interval of both the 2009 standard and supplementary estimate (Table 18; Figure 22). In addition, for most SWHS survey areas, the hybrid survey 95% confidence interval was generally of similar size or smaller than the 95% confidence interval for the standard and supplementary survey estimate with some exceptions (Figure 22).

In survey area P (Cook Inlet/Kenai Peninsula) the hybrid survey point estimate was outside the 95% confidence interval of the standard and supplementary surveys. However, the 95% confidence interval of the hybrid survey estimate did overlap with the 95% confidence interval of the standard and supplementary surveys (Figure 22). The hybrid survey estimate of rockfish harvest for Area C (Kake, Petersburg, Wrangell, and Stikine area) exhibited a similar pattern. The project team hypothesized that the difference observed for area P might be due to a page-order effect in the hybrid survey, because the Cook Inlet/Kenai Peninsula detailed harvest

questions appeared first in the hybrid survey and some anglers may have reported their rockfish harvest on these pages instead of on the appropriate pages that appear later in the booklet (which cover survey areas J, Q, and R). This possibility was investigated further and results are reported below (see section labeled *Examination of Hybrid Survey Estimates That Differed from 2009 SWHS*).

## COMPARISON OF TOTAL CATCH ESTIMATES FOR SELECT SPECIES

For a number of freshwater species there were an insufficient number of responses from the hybrid survey to generate reasonable estimates of total harvest for comparison to the 2009 SWHS late mailing estimates. This is probably due to the fact that the hybrid survey was only tested during the late mailing and many freshwater species tend to have high catch-and-release rates (i.e., less harvest). Thus, the total catch estimate of selected freshwater species at the region and SWHS survey area from the hybrid survey were compared to those generated from the 2009 SWHS for the purpose of this analysis. Species for which there were sufficient survey responses from the late mailing sample to allow for comparison of total catch estimates included rainbow trout, Dolly Varden/Arctic char, and Arctic grayling. It is important to note that the total catch estimates for some survey areas and regions are based on relatively small numbers of actual survey responses. At the regional level, hybrid survey estimates of total catch of selected species were compared to the 2009 combined SWHS survey estimate of total catch (standard survey + supplementary survey sample), whereas at the SWHS survey area level, the hybrid survey estimate of total catch was compared to both standard and supplementary survey estimates for a more detailed comparison. Regional survey estimates that are based on smaller total survey responses (<75) are noted below, and the results of comparisons in total catch estimates should be interpreted with some caution. At the SWHS survey area level, comparisons of total catch estimates were included in this analysis only if the total number of responses to a given survey type for any SWHS survey area was greater than 10 total responses.

### Rainbow Trout

#### *Rainbow Trout Catch within Management Regions*

Point estimates and 95% confidence intervals of total rainbow trout catch within each sport fish management region (1 = Southeast, 2 = Southcentral, 3 = Arctic-Yukon-Kuskokwim) from the hybrid survey were very similar to those generated from the 2009 combined SWHS survey (Table 19; Figure 23). Although total catch of rainbow trout is relatively small in Region 1, the point estimate of total catch of rainbow trout was still within 13% of the 2009 combined survey point estimate and the 95% confidence interval was of similar size (Table 19). The Region 2 hybrid survey point estimate of total catch was 8% higher than the 2009 combined survey estimate and the 95% confidence interval was of very similar size, whereas the Region 3 hybrid survey point estimate was about 1% different than the 2009 combined survey point estimate and the 95% confidence intervals were very similar (Table 19). It should be noted that both the hybrid and combined SWHS estimates of total rainbow trout catch in Regions 1 and 3 are based on relatively few total survey responses<sup>5</sup> (<25 and <65 respectively), whereas the estimates for Region 2 are based on over 700 survey responses.

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<sup>5</sup> A survey response in this context means a survey that was returned and that contained catch and harvest information for the specific species of interest. Not all survey responses will have reported catch or harvest for each species due to anglers fishing in different locations.



### ***Rainbow Trout Catch by SWHS Survey Area***

Hybrid survey point estimates and 95% confidence intervals of estimated total rainbow trout catch by SWHS survey area where rainbow trout occur (areas A-V) were also compared to the 2009 standard and supplementary SWHS survey estimates. Sixteen SWHS survey areas were removed from the analysis because they either do not contain rainbow trout (areas W-Z) or the late mailing estimates were based on a very small number of survey responses (<10), most likely due to the limited opportunities that exist for catching rainbow trout in those areas (areas A-J, and Q; Table 20). In all of the remaining 9 SWHS survey areas where the vast majority of rainbow trout catch in Alaska occurs, the hybrid survey point estimate fell within the 95% confidence interval of either the 2009 standard or supplementary survey estimate, whereas in 2 of the 9 survey areas, the hybrid survey point estimate fell within 95% confidence interval of both the 2009 standard and supplementary survey (Figure 24; Table 20). The size of the 95% confidence intervals for the 2009 standard and supplementary survey estimates differ considerably for some of these survey areas, so this had an effect on the degree of overlap of the hybrid survey point estimates with both the 2009 standard and supplementary survey confidence intervals. With two exceptions (area P and S), the hybrid survey point estimates and 95% confidence intervals were generally more similar to the supplementary survey estimates and confidence intervals (Figure 24).

### **Dolly Varden/Arctic Char**

#### ***Dolly Varden/Arctic Char Catch within Management Regions***

Point estimates and 95% confidence intervals of total Dolly Varden/Arctic char catch within each sport fish management region (1 = Southeast, 2 = Southcentral, 3 = Arctic-Yukon-Kuskokwim) from the hybrid survey were generally similar to those generated from the 2009 combined SWHS survey (Table 21; Figure 25). In Regions 1 and 2, the point estimate of total catch of Dolly Varden/Arctic char from the hybrid survey was within the 95% confidence interval of the 2009 combined SWHS estimate and the hybrid survey 95% confidence interval was of similar size. The difference in the point estimates across the two survey types was 36% in Region 1 and 2% for Region 2 (Table 21). It should be noted that both the hybrid and combined SWHS estimates of total Dolly Varden/Arctic char catch in Regions 1 and 3 are based on relatively few survey responses (<75 responses).

#### ***Dolly Varden/Arctic Char Catch by SWHS Survey Area***

Hybrid survey point estimates and 95% confidence intervals of estimated total Dolly Varden/Arctic char catch by SWHS survey area were also compared to the 2009 standard and supplementary SWHS survey estimates. Fourteen of the 25 SWHS survey areas were removed from the analysis because one or more of the survey types had less than 10 total survey responses. In all of the remaining 11 SWHS survey areas where there were sufficient responses (and where a large percentage of Dolly Varden/Arctic char catch occurs), the hybrid survey point estimate fell within the 95% confidence interval of either the 2009 standard or supplementary survey estimate, whereas in 5 of the 11 survey areas, the hybrid survey point estimate fell within 95% confidence interval of both the 2009 standard and supplementary survey (Table 22; Figure 26).

## Arctic Grayling

### *Arctic Grayling Catch within Management Regions*

Comparison of total Arctic grayling catch estimates were only possible for Regions 2 and 3 (2 = Southcentral, 3 = Arctic-Yukon-Kuskokwim) because Arctic grayling generally do not occur in southeast Alaska. The point estimates and 95% confidence intervals of total Arctic grayling catch within Regions 2 and 3 from the hybrid survey were generally lower than those generated from the 2009 combined SWHS survey but the 95% confidence intervals of the two estimates overlapped (Table 23; Figure 27). In Region 2, the point estimate of total catch of Arctic grayling from the hybrid survey was 36% lower than the 2009 combined SWHS estimate, whereas in Region 3, the hybrid survey estimate was 23% lower than the combined SWHS estimate (Table 23).

### *Arctic Grayling Catch by SWHS Survey Area and SWHS Survey Type*

Hybrid survey point estimates and 95% confidence intervals of estimated total Arctic grayling catch by SWHS survey area were also compared to the 2009 standard and supplementary SWHS survey estimates. Eighteen of the 25 SWHS survey areas were removed from the analysis because Arctic grayling do not occur in southeast Alaska (areas A-H) or one or more of the survey types had fewer than 10 total survey responses for a given survey area. In all of the remaining 7 SWHS survey areas where there were sufficient responses (and where a large percentage of Arctic grayling catch occurs), the hybrid survey point estimate fell within the 95% confidence interval of either the 2009 standard or supplementary survey estimate, while in 5 of the 7 survey areas, the hybrid survey point estimate fell within 95% confidence interval of both the 2009 standard and supplementary survey (Table 24; Figure 28).

## **EXAMINATION OF HYBRID SURVEY ESTIMATES THAT DIFFERED FROM 2009 SWHS**

For some comparisons of total harvest (Pacific halibut, rockfish, and coho salmon) across survey areas, the project team noticed that the harvest estimates from the hybrid survey were often higher for survey area P (Cook Inlet/Kenai Peninsula) and lower for survey area J (Seward/North Gulf Coast) and Q (Kodiak) than similar estimates from the 2009 standard and supplementary surveys, suggesting a possible page-order effect in the hybrid survey; i.e., respondents potentially reporting all of their Region 2 harvest on the first page they come to in the booklet (the Cook Inlet/Kenai Peninsula detailed grid pages), rather than reporting harvest in the appropriate survey area (e.g., survey areas J and Q, which appear on a later pager in the hybrid survey booklet). To investigate this concern, the project team compared the ratios of Cook Inlet/Kenai Peninsula guided harvest to the total guided Region II harvest for these species (Pacific halibut, rockfish, and coho salmon) from the supplementary and hybrid surveys to similar ratios from the 2009 Guide Logbook database (Sigurdsson and Powers 2010). It was assumed that the most valid comparison of these ratios would be Pacific halibut and coho salmon because these are targeted species for charter operations and the guided fishery for these fisheries coincides with the time of the late license sales. The hybrid survey was sent to a sample that purchased their sport fishing license after a substantial portion of guided Chinook and sockeye salmon had already occurred, so comparisons for those species were not considered to be as useful.

For Pacific halibut, the hybrid survey had a higher ratio of Cook Inlet/Kenai Peninsula guided harvest to all Region 2 guided harvest than both the supplementary survey and the 2009 Guide

Logbook data and the 95% confidence intervals of the hybrid and supplementary estimates did not overlap (Figure 29). Similarly, the hybrid survey ratio of Cook Inlet/Kenai Peninsula guided rockfish harvest to all Region 2 guided rockfish harvest was higher than both the supplementary survey and the 2009 Guide Logbook data although with some overlap in the 95% confidence intervals of the hybrid and supplementary estimates (Figure 30). For coho salmon, the comparison of guided harvest ratios was made within water type (freshwater, saltwater) because guided effort and harvest occurs within both water types in Region 2. Results indicated that in saltwater the hybrid survey had a higher ratio of Cook Inlet/Kenai Peninsula guided coho salmon harvest to all Region 2 guided coho salmon harvest than both the supplementary survey and the 2009 Guide Logbook data (Figure 31). However, in freshwater, the hybrid and supplementary survey ratios of guided coho harvest in Cook Inlet/Kenai Peninsula to all Region 2 were similar but higher than the 2009 Guide Logbook ratio (Figure 31). The fact that this higher ratio effect was only seen in saltwater guided fishing for coho salmon is consistent with the results for Pacific halibut and rockfish. These results suggest that there was probably a page-order effect in the hybrid survey (i.e., the layout of the booklet caused some respondents to incorrectly report their harvest in area P—the first page where harvest could be reported—when in fact some of their harvest may have been in another survey area within Region 2).

## DISCUSSION

The primary highlights of the detailed comparisons of the single-booklet hybrid survey metrics and selected estimates with similar metrics and estimates from the current SWHS approach are as follows:

- Survey response rates for the hybrid survey and the current survey questionnaires were essentially the same. There was no significant increase in response rate to the hybrid survey format, but no measurable drop in response rate either. Based upon the mailed test, it is expected that a full implementation of the hybrid survey would exhibit similar response rates to the 2009 supplementary survey given the similar response format.
- Point estimates and 95% confidence intervals of total days fished statewide, by region within water type (freshwater, saltwater), and by survey area (A-Z) were very similar, with only a few exceptions.
- Point estimates and 95% confidence intervals of total harvest and total catch for key species were generally similar at the regional and survey area levels where there were sufficient numbers of survey responses to make effective comparisons. Total harvest estimates and 95% confidence intervals from the hybrid survey were more similar to 2009 SWHS estimates than total catch estimates for the species examined, possibly due to the fact that catch estimates have more variation—it is more difficult for anglers to recall total catch and responses on catch exhibit more digit preference (rounding to 5, 10, etc.) than harvest estimates.
- Those differences in estimates of harvest and catch for select species at the regional and survey area level that were observed between the hybrid and combined 2009 SWHS appear to be due to the following factors:
  - a) Relatively small numbers of survey responses for some regions and survey areas

- b) a possible page-order effect in the hybrid survey for Region 2 estimates, where Cook Inlet-Kenai Peninsula detailed page grids appeared first in the hybrid survey booklet. To prevent the potential for bias in the estimates due to page order effects, adjustments to hybrid survey layout and administration could be made, such as distributing multiple survey booklet types within the sample that have different page order arrangements—similar to what is currently done with the 2009 supplementary survey.

After reviewing the generally favorable results of the hybrid survey comparisons to 2009 SWHS estimates, the SWHS project team met to outline and discuss the potential advantages and disadvantages of switching from the current two-booklet (standard and supplementary) approach to a single-booklet (hybrid) approach to conducting the annual Alaska statewide harvest survey. The major advantages of making the switch to the single-booklet (hybrid) approach outlined by the project team included the following:

- Improvement in the precision and accuracy of guided catch and harvest estimates because all SWHS sampled households will now be asked to report guided and unguided trip information (effort, catch, and harvest) separately in the questionnaire. Under the current SWHS two-booklet approach, 50% of sampled households receive the standard survey booklet, which asks anglers to report all household sport fishing activity but does not require them to differentiate guided and unguided sport fishing activity. The other 50% of the sampled households receive the supplemental survey format, which does ask anglers to report guided and unguided sport fishing activity in separate sections. As a result, estimates of total guided sport fishing effort, catch, and harvest were based on a subset of the total sampled households. With the change to the hybrid survey format, all sample households would be asked to differentiate their household sport fishing activity as guided or unguided, significantly increasing the total number of sport fishing trips and trip data (days, catch, and harvest) that are differentiated as guided across the entire SWHS sample. This significant increase in the response set of guided trips via the hybrid survey should 1) allow for a more direct estimation procedure for guided sport fishing estimates, 2) improve the precision and accuracy of the estimates at statewide, regional, and area levels, and 3) allow more direct comparisons to independent estimates of fishing effort, catch, and harvest generated from the ADF&G guide logbook program and onsite creel surveys for the purpose of evaluating the future accuracy of the SWHS estimates.
- Switching to the hybrid booklet format may provide more accurate estimates of effort, catch, and harvest for specific fishing locations and some species because the hybrid booklet format allows sampled households more space to report their fishing activity with more opportunity for specificity. The hybrid booklet format (Appendix B) was designed to be similar to the supplemental survey, which uses an open grid format that asks anglers to write in all the locations fished (using a map booklet enclosed with the survey as a reference guide) then record number of trips, days fished, and number of each species caught and kept at that location. This general format has been used since 1992 in conjunction with the standard (original) survey booklet that is organized by geographic survey area and provides a pre-defined list of common fishing sites within each survey area for anglers to report their household sport fishing activity and then a few additional blank lines to write in additional locations fished with limited room to specify location name (Appendix C). Project staff have observed over the years that the open-grid format

tended to capture a wider diversity of specific fishing locations and household angling activity than the pre-defined list of sites in the standard survey format. The prediction is that switching to the hybrid format would result in less sport fishing trip information being recorded as aggregated categories (e.g., “other saltwater sites in area A, unspecified”), because the open grid format requires the angler to specify (even if only by name) a location for all data reported.

- Moving to a single-booklet hybrid format greatly simplifies the sampling and statistical estimation procedures used to produce the final SWHS estimates, resulting in less potential for errors in generation of the final estimates and reduced potential for sampling and measurement biases to influence the resulting estimates. When the supplemental survey was added to the SWHS program in 1992 to address the management need for guided and unguided sport fishing activity estimates, the estimation procedures became considerably more complex and relied on a number of primary assumptions (only some of which could be assessed with additional analyses). Although the estimation procedures from 1992-2009 were based on sound statistical methods and the estimates were found to compare favorably to available independent estimates of effort, catch, and harvest for specific fisheries (Clark 2009), simplifying the estimation procedure through use of a single-booklet format and a less complex stratified sampling procedure was considered desirable and was recommended during a programmatic review of the SWHS program in 2005 (Clark et al. 2007).

Additional advantages to adoption of the hybrid survey format for the SWHS discussed by project staff included the following:

- Improved data quality and accuracy resulting from the need to manually review and code returned survey forms prior to data entry. The open-grid format of the hybrid survey (modeled after the supplemental survey) requires detailed review of each survey booklet by project staff to ensure that reported information is properly coded as guided or unguided fishing activity and coded to the correct fishing location code, species, etc. prior to data entry. This process, although tedious, greatly improves the quality of the dataset from which estimates are generated.
- A small reduction in the total cost of paper stock, printing, and mailing, assuming that response rates continue to be similar to those observed in past SWHS years and under the 2009 hybrid survey test. Under the current SWHS program, 50% of the sample is sent the standard survey booklet, which is a 48-page survey book (Appendix C). This booklet format costs more to print and (due to heavier total weight) has higher bulk mailout and business reply mail costs than the shorter, supplemental survey booklet even when including a mapsite (which is not returned in a business reply envelope).

The project team also discussed potential disadvantages of making the switch to the single-booklet (hybrid) approach, including the following:

- There is potential for differences in the relative precision of estimates of effort, catch, and harvest for specific fishing locations and species from those estimates generated in previous years due to the change. This could affect trend interpretation and utility of the estimates by management staff. Any time there is a change in sampling, survey questionnaires, or estimation procedures in an established survey, there is the potential for the estimates generated to vary from those generated under previous procedures. The

main purpose of a large-scale mailed test of the hybrid survey conducted under similar sampling, mailing, and estimation procedures was to assess the potential for significant effects on the resulting estimates by a shift to a revised survey booklet. Based upon the results presented in this analysis, the project team agreed that the potential for significantly different estimates at the statewide, region, and area levels was relatively low and the relative precision observed of key species at various geographic scales was similar to what was generated by the current SWHS approach. Comparison of estimates for specific locations or specific fisheries was outside the scope of this particular test due to time and budget constraints. However, based upon the results at the area level, the project team agreed that although there was potential for some changes in the estimates of effort, catch, and harvest at the fishery location level, particularly for certain locations with lower levels of effort or certain species, such changes would probably be within the range of variation seen over time due to the larger standard errors that normally exist for estimates at the fishery location level.

- A switch to the hybrid survey questionnaire would require data entry staff to revise and test a number of survey administration, return processing, data entry, and estimation procedures, resulting in additional staff time and effort during in the next survey cycle. Some of the known changes include the following: slight modifications to the hybrid survey questionnaire; changes to the sampling procedures; preparation and testing of new data entry screens and associated database; revision of data coding, checking, and statistical estimation procedures; and incorporation of these changes in the project operational plan. An increase in the amount of coding effort and time with a switch to the hybrid survey was also noted. It was acknowledged that such changes would take some time to implement but all were considered achievable in time for the project planning for the 2011 survey.

## RECOMMENDATION

Based upon the positive results of the survey estimate comparisons from the mailed test and a thorough weighing of the advantages and disadvantages noted above, **SWHS project staff recommend that the SWHS program switch to a single-booklet format using a slightly modified version of the hybrid survey questionnaire.** The single-booklet hybrid survey questionnaire would replace both the current SWHS standard and supplementary survey booklets and would be implemented starting with the 2011 survey year. The project would continue to use the same SWHS mapsite booklet, and general administration methods for the supplementary survey to be outlined in a revised operational plan. The project team concluded that with some slight modifications to the hybrid survey layout and the use of four different page-order versions of the booklet to minimize the potential for page order bias and charter/non-charter reporting bias (Figure 32), the hybrid survey format will produce effort, catch, and harvest estimates that are reasonably similar to estimates obtained from the two-booklet approach that has been used since 1992. With this change it is expected that the SWHS will provide estimates of guided and non-guided harvest on a statewide level with greater precision than is currently available, and provide overall estimates of fishery specific participation, catch, and harvest that are more accurate than current survey questionnaires provide.

The recommendation to implement the hybrid survey format starting in 2011 comes with some one-time costs (survey coding and reprogramming costs), which can be handled within current

staffing levels and budgetary constraints. The project staff and consulting biometrician have determined that the potential benefits of this change outweigh any such costs and are consistent with the long-term recommendations outlined in Phase 1 of the SWHS Review Team (Clark et al. 2007). Following this change, the SWHS project team will continue to assess the accuracy and precision of SWHS estimates over time using staff review and periodic comparisons of SWHS estimates to independent estimates of participation, effort, catch, and harvest available from other division data collection efforts, specifically the annual guide logbook estimates and onsite creel survey estimates.

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## **TABLES AND FIGURES**

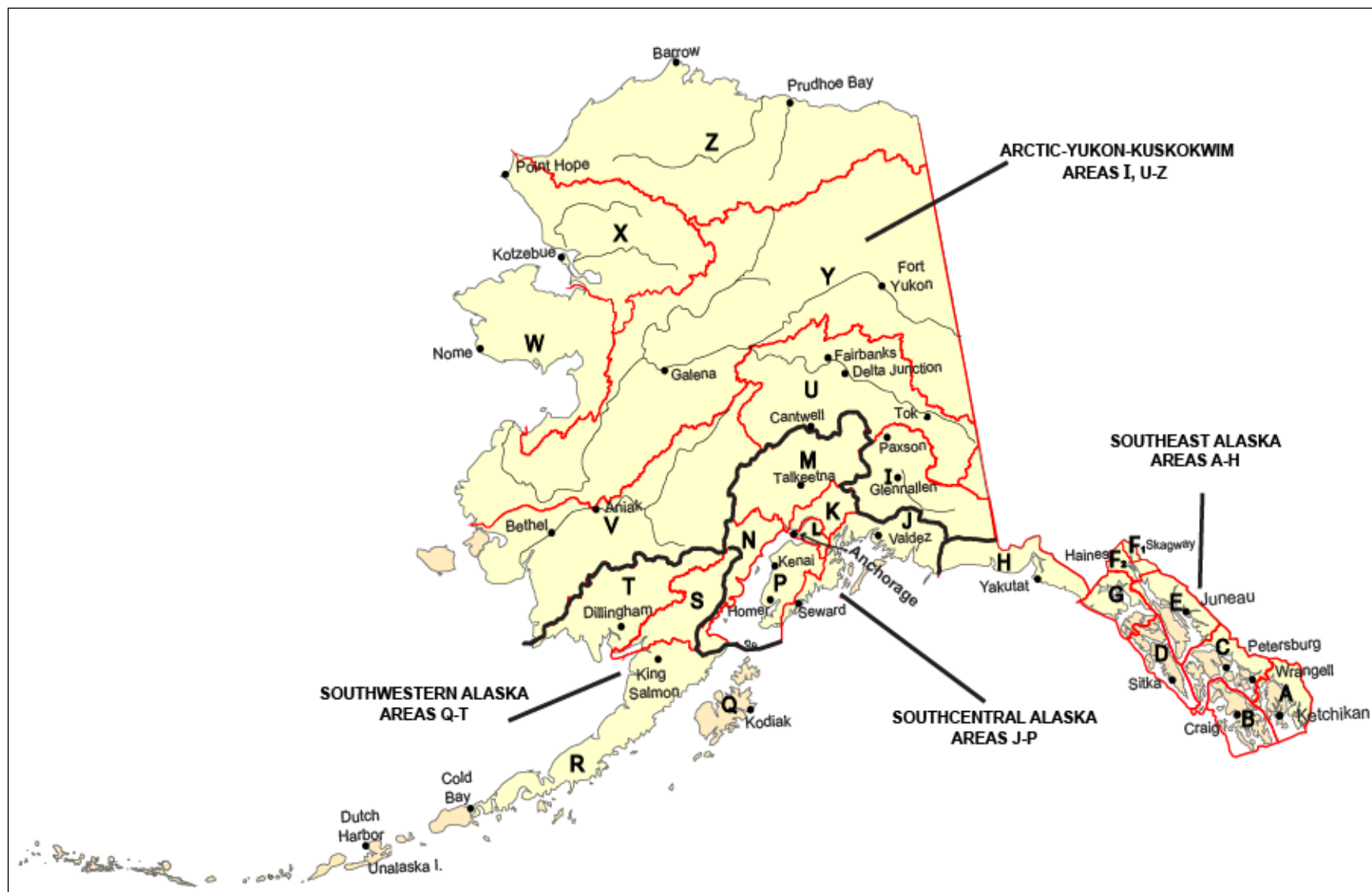


Figure 1.—Map of Alaska sport fishing regions and areas.

Table 1.–List of Alaska sport fishing 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/North Gulf Coast
K	Knik Arm
L	Anchorage
M	Susitna River drainage
N	West Cook Inlet drainages
P	Kenai Peninsula/Cook Inlet
Q	Kodiak
R	Naknek River/Alaska Peninsula
S	Kvichak River drainage
T	Nushagak, Wood River and Togiak
Arctic-Yukon-Kuskokwim	
I	Upper Copper River drainage
U	Tanana River drainage
V	Kuskokwim River/Kuskokwim Bay drainages
W	Norton Sound/Seward Peninsula
X	Northwest Alaska
Y	Yukon River drainage
Z	North Slope/Brooks Range

Table 2.—Overall late mailing survey response rates for the standard, supplementary, and combined standard and supplementary SWHS surveys, 2006–2009<sup>6</sup>, and the 2009 SWHS hybrid survey.

Survey	Percent response rate				
	2006	2007	2008	2009	Hybrid 2009
Supplementary	37.82	37.46	38.78	40.76	
Standard	39.18	38.10	37.33	40.58	
Combined	38.47	37.77	38.07	40.67	
Hybrid					40.19

Note: Combined = standard plus supplementary surveys.

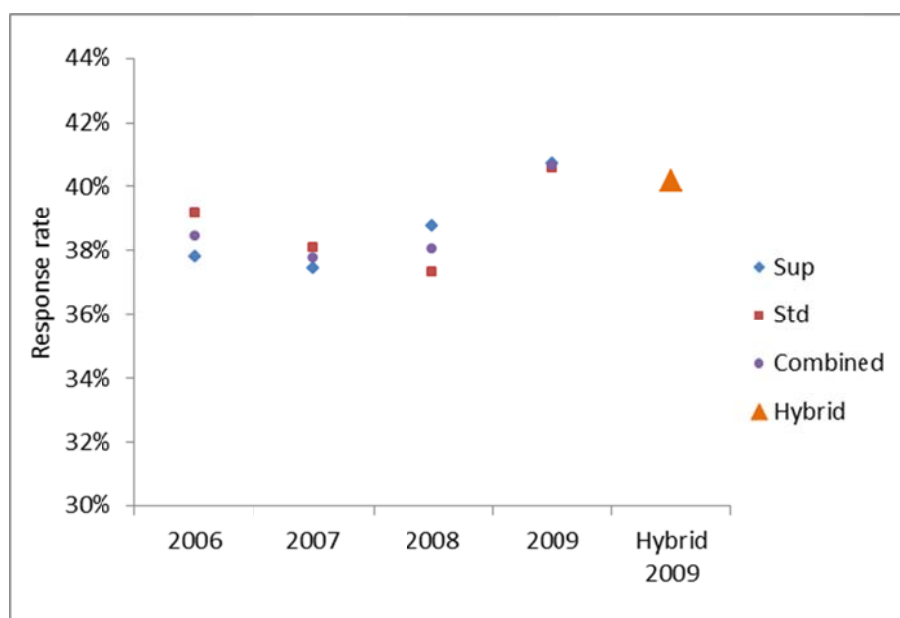


Figure 2.—Overall late mailing survey response rates for the standard, supplementary, and combined standard and supplementary SWHS surveys, 2006–2009, and the 2009 SWHS hybrid survey.

Note: Sup = supplementary survey. Std = standard survey. Combined = standard plus supplementary Surveys.

<sup>6</sup> The 2006–2009 response rates are the combined response rate for entire late Alaska resident and Lower 49 resident sample in that year, not those from a reduced sample set of 10,000 of late Alaska and Lower 49 records used for producing the estimates in this report.

Table 3.–Late mailing survey response rates by strata (AK resident, Lower 49 residents) for the supplementary SWHS 2006–2009 and 2009 SWHS hybrid survey.

STRATA	Percent response rate				
	Supplementary 2006	Supplementary 2007	Supplementary 2008	Supplementary 2009	Hybrid 2009
AK	34.05	34.21	35.41	37.37	37.17
L49	39.62	39.30	40.65	42.47	41.74
Total	37.82	37.46	38.78	40.76	40.19

Note: AK = Alaska resident households.  
L49 = Lower 49 US households.

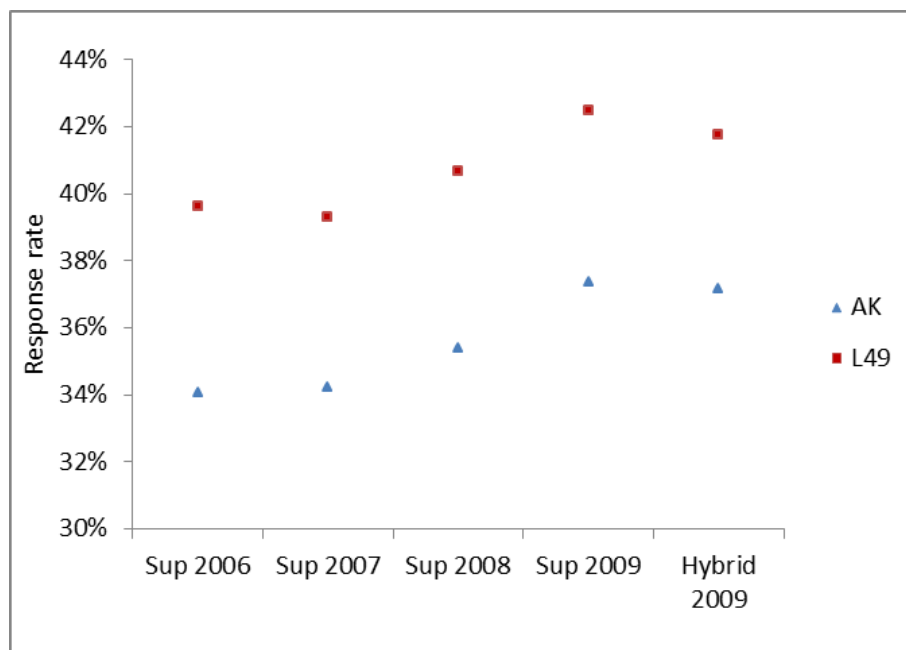


Figure 3.–Late mailing survey response rates by strata (AK resident, Lower 49 residents) for the supplementary SWHS 2006–2009 and 2009 SWHS hybrid survey.

Note: Sup = Supplementary survey.  
AK = Alaska Resident households.  
L49 = Lower 49 US households.

Table 4.—Estimated statewide angler-days fished and 95% confidence limits from the 2009 hybrid survey and the combined SWHS (late mailing sample), 2006–2009.

Angler-days fished	Combined 2006	Combined 2007	Combined 2008	Combined 2009	Hybrid 2009
Estimate	620,268	798,992	708,717	619,090	614,872
LCL <sup>a</sup>	601,233	740,262	686,055	595,348	589,675
UCL <sup>b</sup>	642,050	863,119	734,382	643,569	643,467

Note: Combined = estimate from the combined standard and supplementary SWHS data.

<sup>a</sup> LCL = lower 95% confidence limit.

<sup>b</sup> UCL = upper 95% confidence limit.

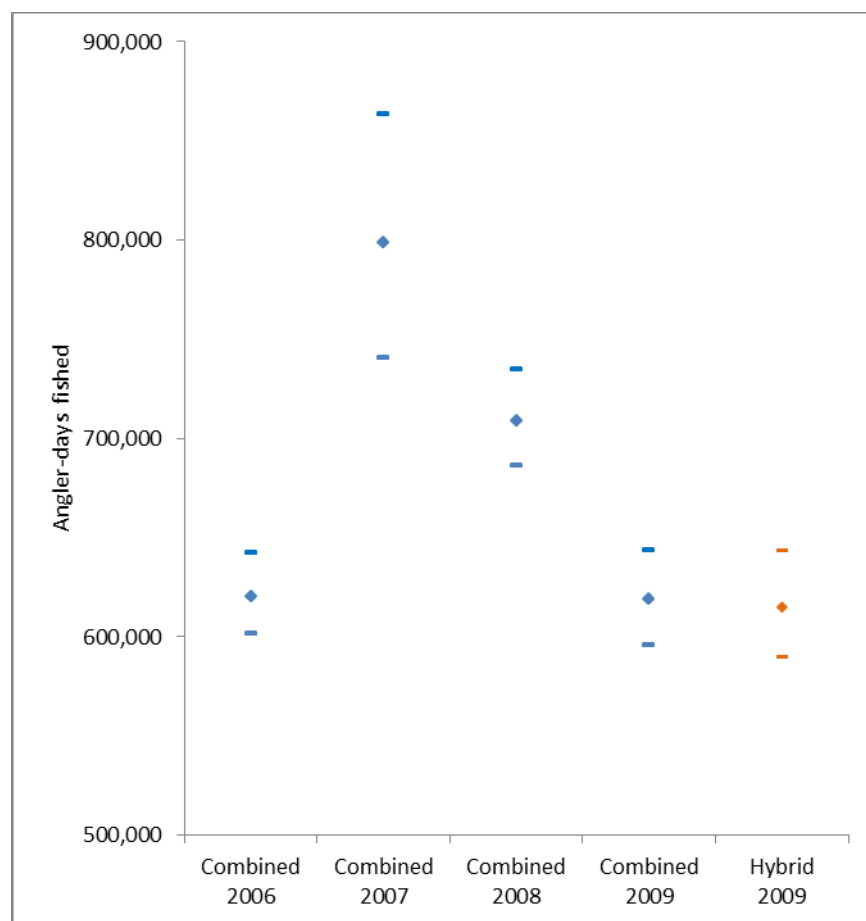


Figure 4.—Estimated statewide angler-days fished and 95% confidence intervals from the 2009 hybrid survey and the combined SWHS (late mailing sample), 2006–2009.

Note: Combined = estimate from the combined standard and supplementary SWHS data.

Table 5.—Estimated angler-days fished and 95% confidence limits from the 2009 hybrid survey and the combined SWHS (late mailing sample) by management region and water type.

Water type	Region <sup>a</sup>	Survey	Angler-days fished	LCL <sup>b</sup>	UCL <sup>c</sup>
Saltwater	1	Combined	119,586	110,095	128,328
		Hybrid	110,935	101,134	121,943
	2	Combined	144,094	129,998	158,785
		Hybrid	147,599	133,474	163,640
	3	Combined	870	124	1,926
		Hybrid	36	0	108
Freshwater	1	Combined	28,945	24,781	33,018
		Hybrid	26,695	22,212	32,036
	2	Combined	281,211	263,095	301,944
		Hybrid	294,739	275,841	317,156
	3	Combined	44,384	36,566	53,453
		Hybrid	34,868	27,132	44,512

Note: Combined = estimate from the combined standard and supplementary SWHS data.

<sup>a</sup> Region 1 = Southeast Alaska, Region 2 = Southcentral Alaska, Region 3 = Arctic-Yukon-Kuskokwim.

<sup>b</sup> LCL = lower 95% confidence limit.

<sup>c</sup> UCL = upper 95% confidence limit.

Figure 5.—Estimated saltwater angler-days fished and 95% confidence intervals from the 2009 hybrid survey and the combined SWHS (late mailing sample) by management region.

Note: Combined = estimate from the combined standard and supplementary SWHS data.

Note: See Figure 1 and Table 1 for a list of sport fishing regions. Region 1 = Southeast Alaska, Region 2 = Southcentral Alaska, Region 3 = Arctic-Yukon-Kuskokwim.

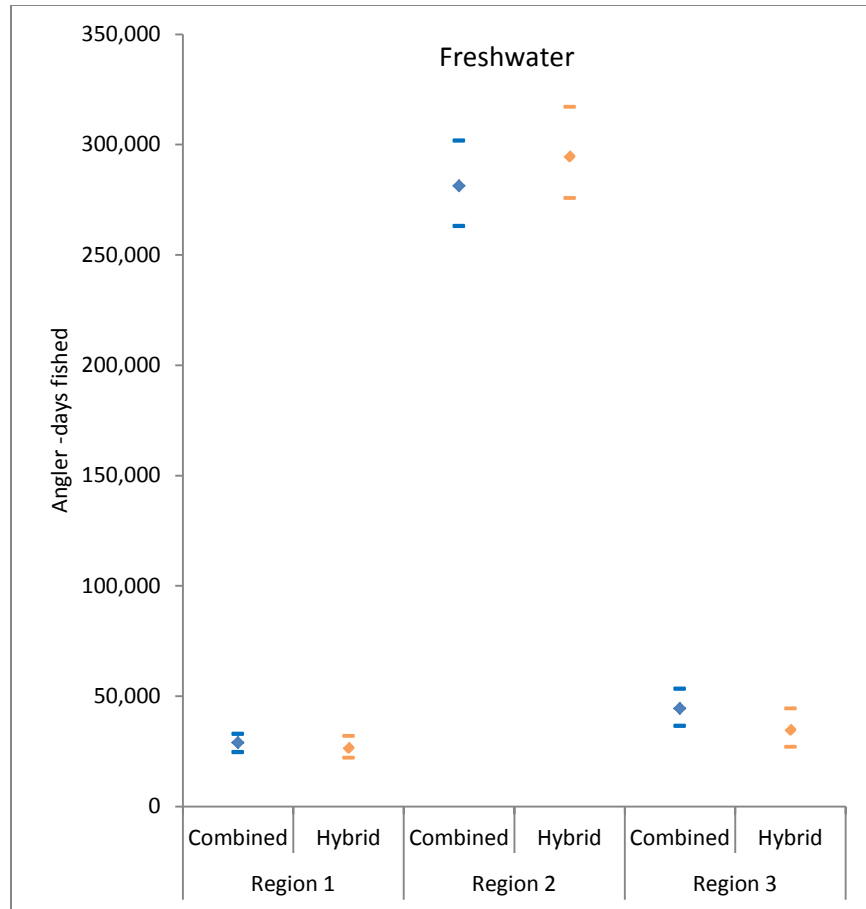


Figure 6.—Estimated freshwater angler-days fished and 95% confidence intervals from the 2009 hybrid survey and the combined SWHS (late mailing sample) by management region.

*Note:* Combined = estimate from the combined Standard and Supplementary SWHS data.

*Note:* See Figure 1 and Table 1 for a list of sport fishing regions. Region 1 = Southeast Alaska, Region 2 = Southcentral Alaska, Region 3 = Arctic-Yukon-Kuskokwim.



Table 6.—Estimated total angler-days fished and 95% confidence limits from the 2009 hybrid survey and the standard and supplementary surveys (late mailing sample) by SWHS survey area (A-Z).

Region <sup>a</sup>	SWHS area <sup>a</sup>	Supplementary			Hybrid			Standard		
		Angler-days fished	LCL <sup>b</sup>	UCL <sup>c</sup>	Angler-days fished	LCL <sup>b</sup>	UCL <sup>c</sup>	Angler-days fished	LCL <sup>b</sup>	UCL <sup>c</sup>
Region 1	A	26,629	22,267	31,581	27,443	23,750	32,181	34,193	28,972	40,266
	B	26,246	21,411	31,391	26,459	22,085	31,409	22,779	19,023	27,031
	C	14,272	10,905	18,227	10,415	6,780	15,232	9,874	6,918	13,654
	D	20,445	17,015	24,388	22,282	18,766	26,336	20,956	17,948	24,430
	E	30,495	24,648	37,209	17,099	13,356	21,561	20,576	16,997	24,846
	F	7,325	2,787	14,050	3,140	2,168	4,103	5,269	3,568	7,313
	G	13,883	11,146	17,019	14,209	11,386	17,468	20,586	14,992	27,251
	H	13,293	10,293	16,628	16,942	11,266	24,283	12,773	10,475	15,374
Region 2	J	85,145	73,789	98,266	68,872	59,210	80,670	76,615	69,001	85,345
	K	24,671	19,633	30,403	17,241	13,735	21,188	36,095	30,032	42,688
	L	16,436	12,393	20,347	15,026	11,381	19,132	19,331	15,680	23,788
	M	32,091	26,862	38,524	33,202	28,168	39,079	33,757	28,851	38,889
	N	4,891	3,698	6,244	4,518	3,090	6,639	8,041	5,176	11,983
	P	187,547	170,647	204,694	232,777	215,878	251,805	195,151	181,209	210,162
	Q	41,334	32,825	53,999	41,098	32,157	51,314	35,170	30,404	40,251
	R	19,375	9,855	34,764	9,208	7,142	11,485	13,572	9,917	18,279
	S	9,915	8,017	12,199	10,401	8,151	12,923	10,137	7,891	12,720
	T	5,964	4,512	7,848	10,325	4,215	20,702	10,349	7,599	13,342
Region 3	I	5,547	3,828	7,453	4,450	3,015	5,988	4,996	3,243	7,191
	U	25,494	18,308	33,154	15,775	10,396	23,881	21,543	15,594	28,079
	V	5,928	3,814	8,305	7,134	4,849	9,466	8,722	6,044	11,722
	W	3,072	1,739	4,601	4,435	1,532	8,360	5,776	3,711	8,184
	X	2,426	1,073	3,994	1,155	154	2,459	3,572	625	8,186
	Y	5,377	2,274	10,544	1,314	510	2,298	3,691	2,067	5,490
	Z	1,360	559	2,257	667	166	1,409	801	273	1,495

<sup>a</sup> See Figure 1 and Table 1 for a list of sport fishing regions and areas. Region 1 = Southeast Alaska, Region 2 = Southcentral Alaska, Region 3 = Arctic-Yukon-Kuskokwim.

<sup>b</sup> LCL = lower 95% confidence limit.

<sup>c</sup> UCL = upper 95% confidence limit.

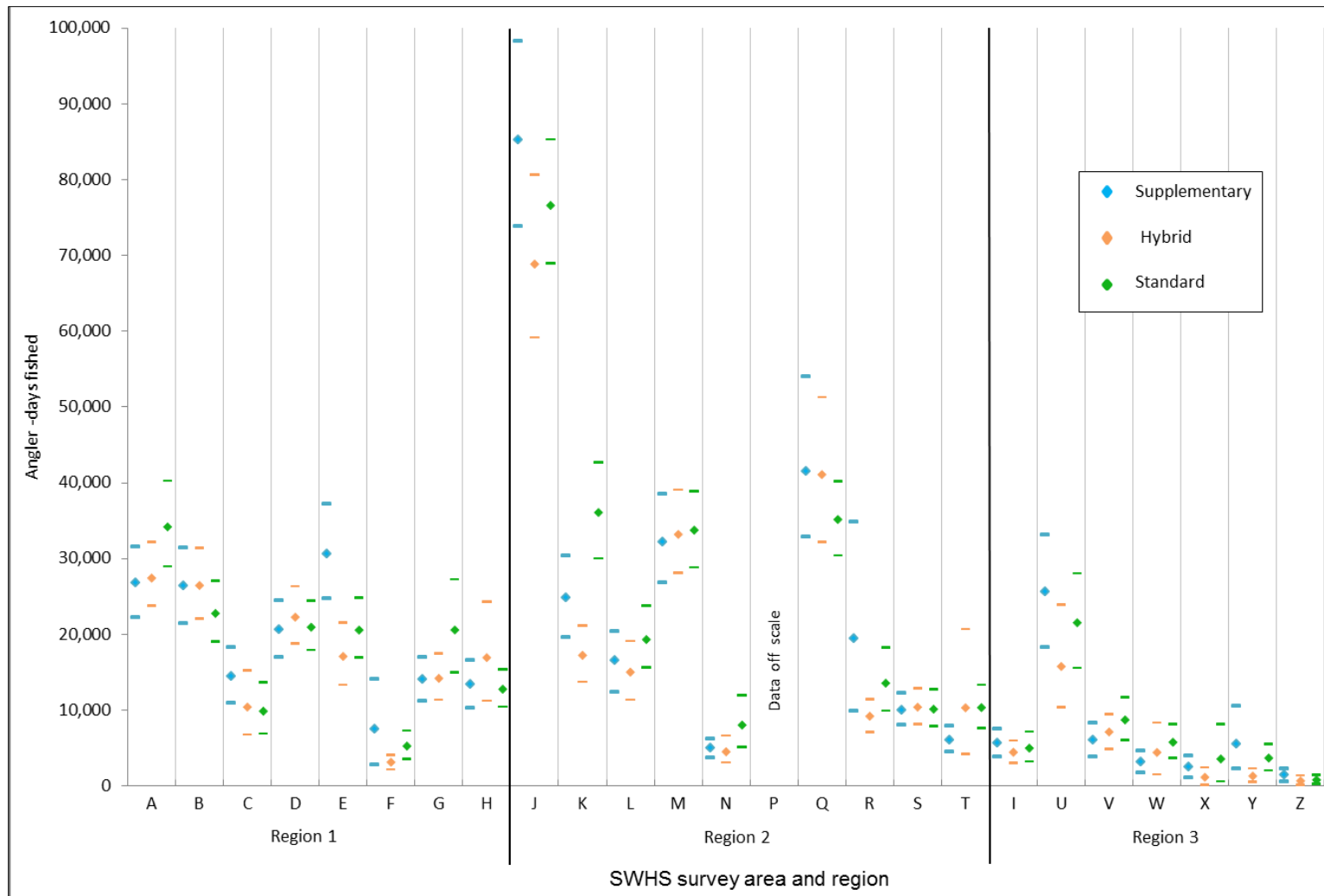


Figure 7.—Estimated total angler-days fished and 95% confidence intervals from the 2009 hybrid survey and the standard and supplementary surveys (late mailing sample) by SWHS survey area (A–Z).

*Note:* See Figure 1 and Table 1 for a list of sport fishing regions and areas. Region 1 = Southeast Alaska, Region 2 = Southcentral Alaska, Region 3 = Arctic-Yukon-Kuskokwim.

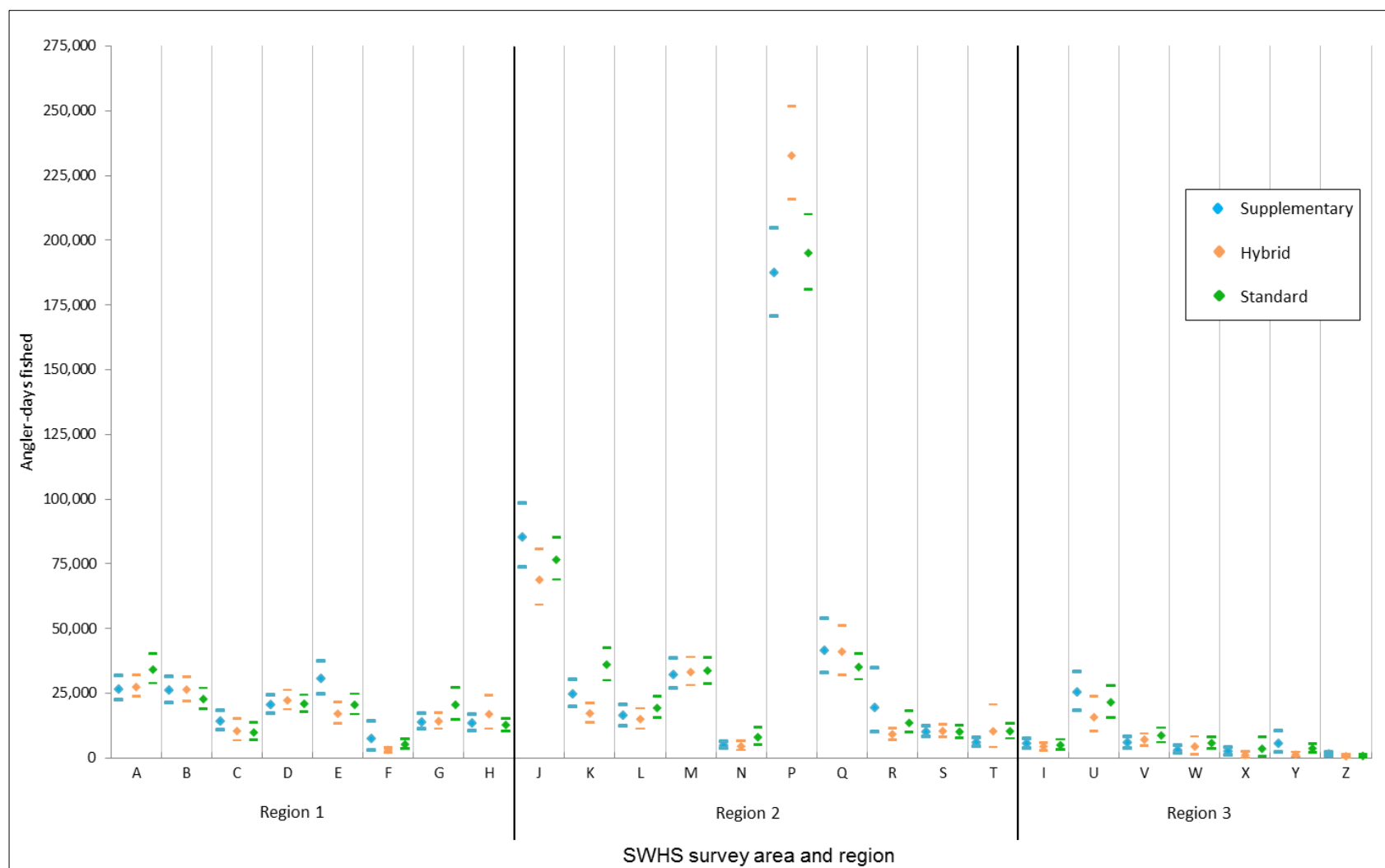


Figure 8.—Estimated total angler-days fished and 95% confidence intervals from the 2009 hybrid survey and the standard and supplementary surveys (late mailing sample) by SWHS survey area (A-Z), showing Area P (Kenai Peninsula).

Note: See Figure 1 and Table 1 for a list of sport fishing regions and areas. Region 1 = Southeast Alaska, Region 2 = Southcentral Alaska, Region 3 = Arctic-Yukon-Kuskokwim.

Table 7.—Estimated total Pacific halibut harvest and 95% confidence limits from the 2009 hybrid survey and the combined SWHS (late mailing sample), 2006–2009.

Harvest	Combined 2006	Combined 2007	Combined 2008	Combined 2009	Hybrid 2009
Estimate	150,640	194,873	206,090	146,592	139,147
LCL <sup>a</sup>	141,945	182,403	192,019	136,726	130,507
UCL <sup>b</sup>	158,968	206,957	224,022	157,310	147,943

Note: Combined = estimate from the combined standard and supplementary SWHS data.

<sup>a</sup> LCL = lower 95% confidence limit.

<sup>b</sup> UCL = upper 95% confidence limit.

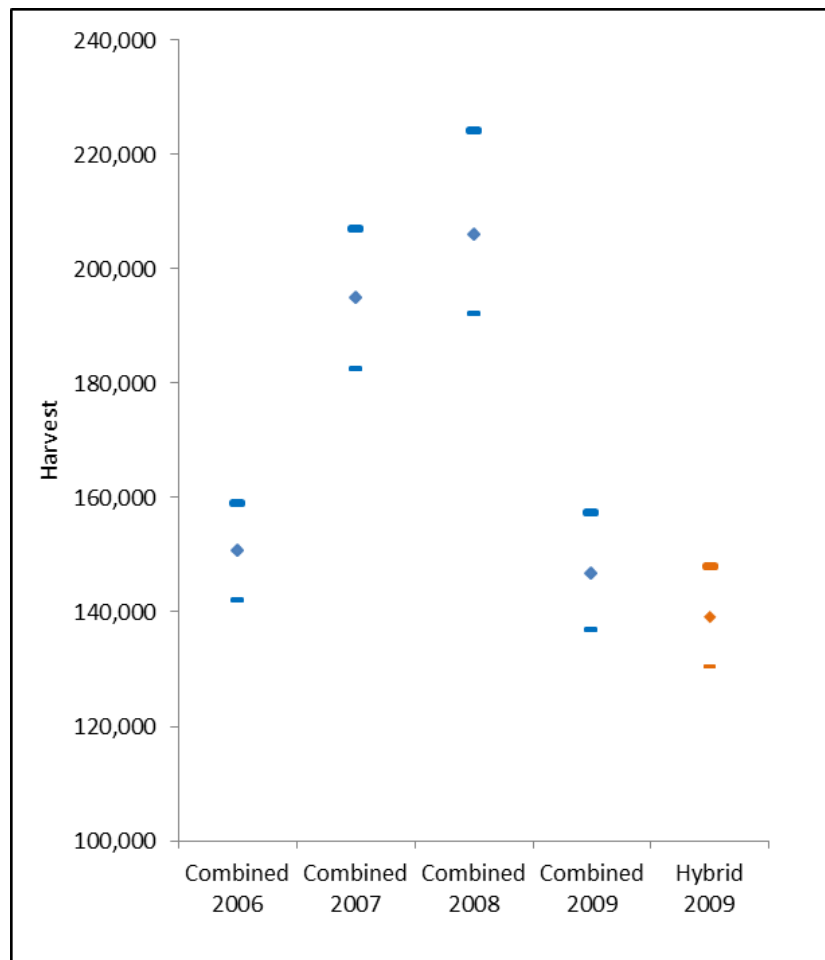


Figure 9.—Estimated total Pacific halibut harvest and 95% confidence intervals from the 2009 hybrid survey and the combined SWHS (late mailing sample), 2006–2009.

Note: Combined = estimate from the combined standard and supplementary SWHS data.

Table 8.—Estimated total Pacific halibut harvest and 95% confidence limits from the 2009 hybrid survey and the combined SWHS (late mailing sample) by management region.

Region	Survey	Harvest	LCL <sup>a</sup>	UCL <sup>b</sup>
1	Combined	53,894	47,980	59,993
	Hybrid	44,182	39,137	49,262
2	Combined	92,698	84,804	101,845
	Hybrid	94,965	87,407	102,176
3 <sup>c</sup>	Combined			
	Hybrid			

*Note:* Combined = estimate from the combined standard and supplementary SWHS data.

*Note:* See Figure 1 and Table 1 for a list of sport fishing regions. Region 1 = Southeast Alaska, Region 2 = Southcentral Alaska, Region 3 = Arctic-Yukon-Kuskokwim.

<sup>a</sup> LCL = lower 95% confidence limit.

<sup>b</sup> UCL = upper 95% confidence limit.

<sup>c</sup> No Pacific halibut harvest was recorded in Region 3.

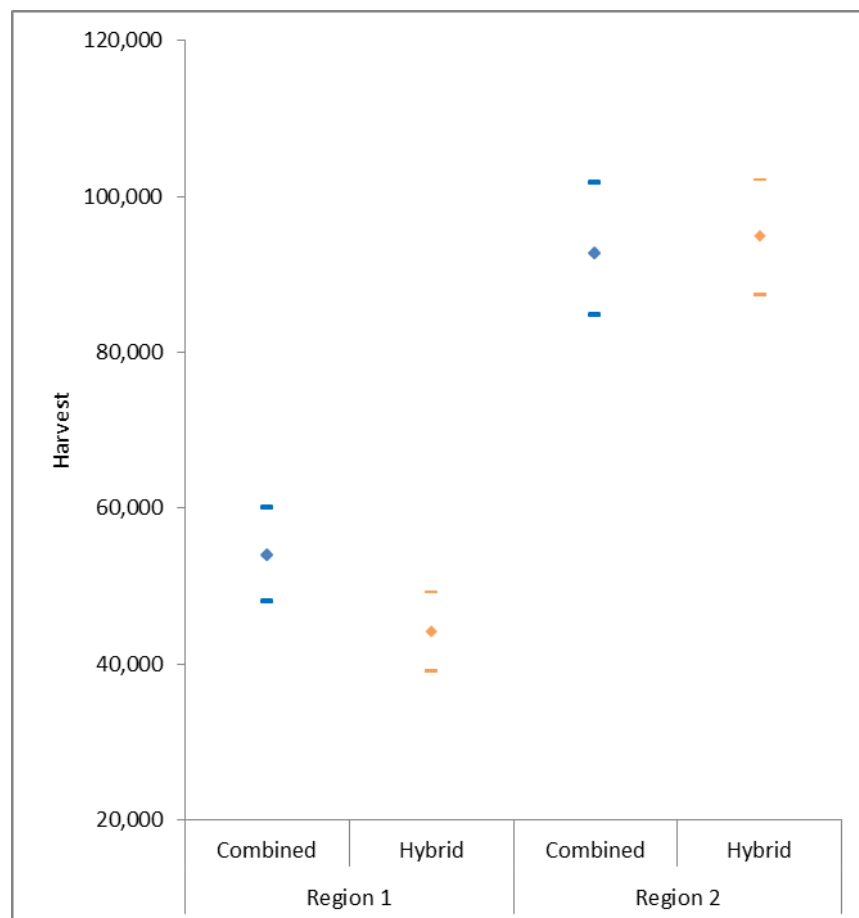


Figure 10.—Estimated total Pacific halibut harvest and 95% confidence intervals from the 2009 hybrid survey and the combined SWHS (late mailing sample), 2006–2009.

*Note:* Combined = estimate from the combined standard and supplementary SWHS data. See Figure 1 and Table 1 for a list of sport fishing regions. Region 1 = Southeast Alaska, Region 2 = Southcentral Alaska.

Table 9.—Estimated total Pacific halibut harvest and 95% confidence limits from the 2009 hybrid survey and the standard and supplementary surveys (late mailing sample) by SWHS survey area (A-R).

Region <sup>a</sup>	SWHS area	Supplementary			Hybrid			Standard		
		Harvest	LCL <sup>b</sup>	UCL <sup>c</sup>	Harvest	LCL <sup>b</sup>	UCL <sup>c</sup>	Harvest	LCL <sup>b</sup>	UCL <sup>c</sup>
Region 1	A	5,062	3,560	6,755	4,485	3,089	6,075	6,152	4,446	8,027
	B	13,147	10,045	16,436	11,601	9,472	14,267	9,290	7,155	11,704
	C	3,966	2,708	5,318	3,917	2,326	5,837	4,310	2,633	6,461
	D	9,092	7,054	11,422	10,087	7,463	13,206	8,492	6,619	10,462
	E	8,165	5,797	10,800	4,156	2,743	5,924	7,001	4,807	9,949
	F	248	0	694	79	0	210	209	26	495
	G	10,866	8,261	13,957	8,470	6,406	10,739	11,288	8,102	14,898
	H	1,833	966	2,824	1,385	524	2,579	912	417	1,512
Region 2	J	28,131	24,277	31,937	20,430	17,213	23,738	23,935	20,506	28,258
	P	52,204	46,423	58,639	63,635	57,661	70,096	56,954	49,690	64,846
	Q	16,587	12,735	21,163	9,955	7,307	13,094	12,256	9,408	15,495
	R	913	293	1,671	941	341	1,774	1,901	735	3,353

*Note:* See Figure 1 and Table 1 for a list of sport fishing regions and areas. Region 1 = Southeast Alaska, Region 2 = Southcentral Alaska, Region 3 = Arctic-Yukon-Kuskokwim.

<sup>a</sup> No Region 3 estimates were generated due to limited Pacific halibut fishing in Region 3.

<sup>b</sup> LCL = lower 95% confidence limit.

<sup>c</sup> UCL = upper 95% confidence limit.

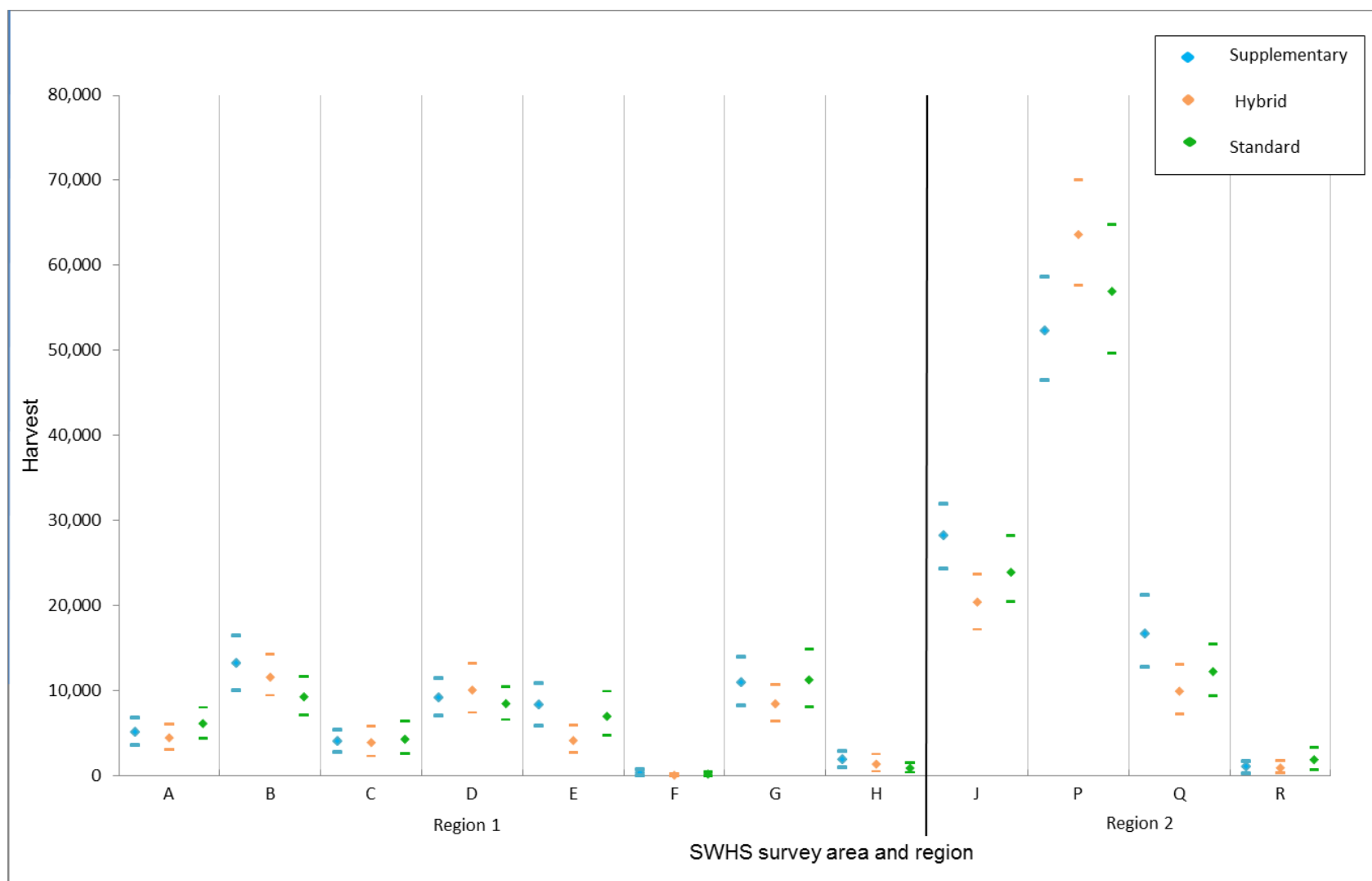


Figure 11.—Estimated total Pacific halibut harvest and 95% confidence intervals from the 2009 hybrid survey and the combined SWHS (late mailing sample) by survey area (A–R).

*Note:* See Figure 1 and Table 1 for a list of sport fishing regions and areas. Region 1 = Southeast Alaska, Region 2 = Southcentral Alaska, Region 3 = Arctic-Yukon-Kuskokwim.

Table 10.–Estimated total coho salmon harvest and 95% confidence limits from the 2009 hybrid survey and the combined SWHS (late mailing sample), 2006–2009.

Harvest	Combined 2006	Combined 2007	Combined 2008	Combined 2009	Hybrid 2009
Estimate	254,902	293,907	308,113	273,238	275,779
LCL <sup>a</sup>	237,448	275,652	288,991	256,161	257,971
UCL <sup>b</sup>	271,775	313,720	328,100	288,545	292,987

Note: Combined = estimate from the combined standard and supplementary SWHS data.

<sup>a</sup> LCL = lower 95% confidence limit.

<sup>b</sup> UCL = upper 95% confidence limit.

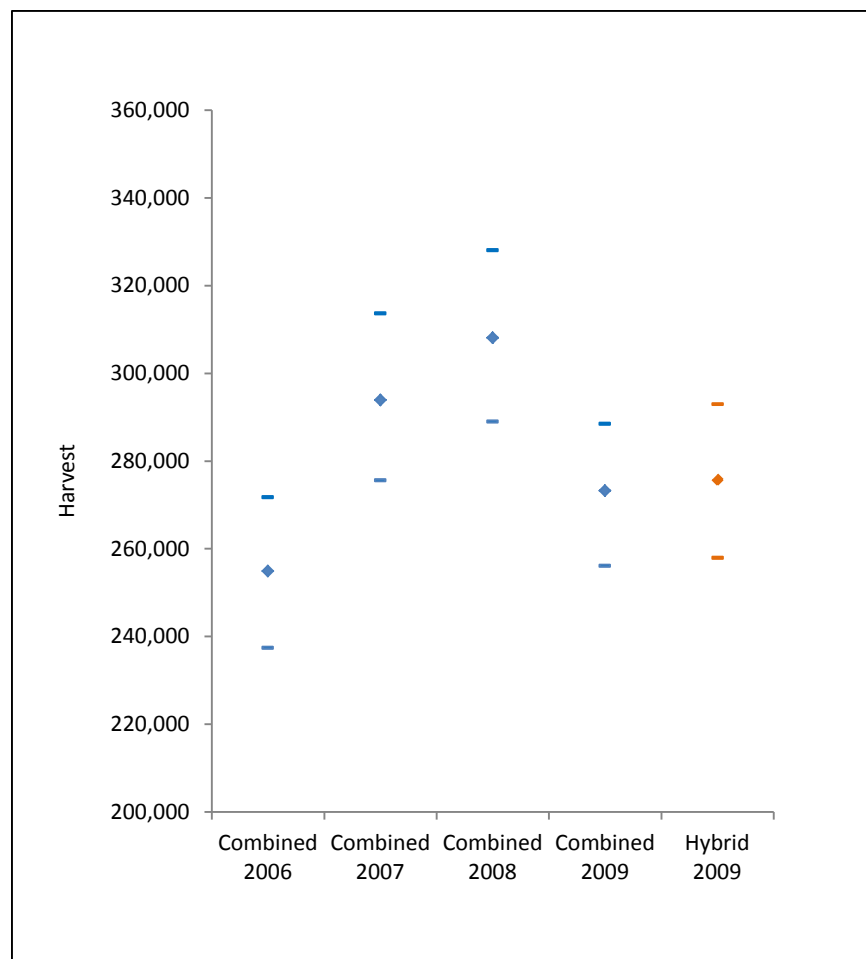


Figure 12.–Estimated total coho salmon harvest and 95% confidence intervals from the 2009 hybrid survey and the combined SWHS (late mailing sample), 2006–2009.

Note: Combined = estimate from the combined standard and supplementary SWHS data.



Table 11.—Estimated total coho salmon harvest and 95% confidence limits from the 2009 hybrid survey and the combined SWHS (late mailing sample) by management region and water type.

Water type	Region <sup>a</sup>	Survey	Harvest	LCL <sup>b</sup>	UCL <sup>c</sup>
Saltwater	1	Combined	109,475	98,300	121,275
		Hybrid	108,141	95,362	120,451
	2	Combined	67,334	59,469	75,750
		Hybrid	56,061	50,052	63,159
	3	Combined	94	0	281
		Hybrid	0	0	0
Freshwater	1	Combined	16,756	13,153	20,748
		Hybrid	16,278	12,087	20,595
	2	Combined	73,236	65,784	80,563
		Hybrid	89,030	78,830	101,506
	3	Combined	6,343	3,773	9,266
		Hybrid	6,269	3,247	10,094

Note: Combined = estimate from the combined standard and supplementary SWHS data.

<sup>a</sup> Region 1 = Southeast Alaska, Region 2 = Southcentral Alaska, Region 3 = Arctic-Yukon-Kuskokwim.

<sup>b</sup> LCL = lower 95% confidence limit.

<sup>c</sup> UCL = upper 95% confidence limit.

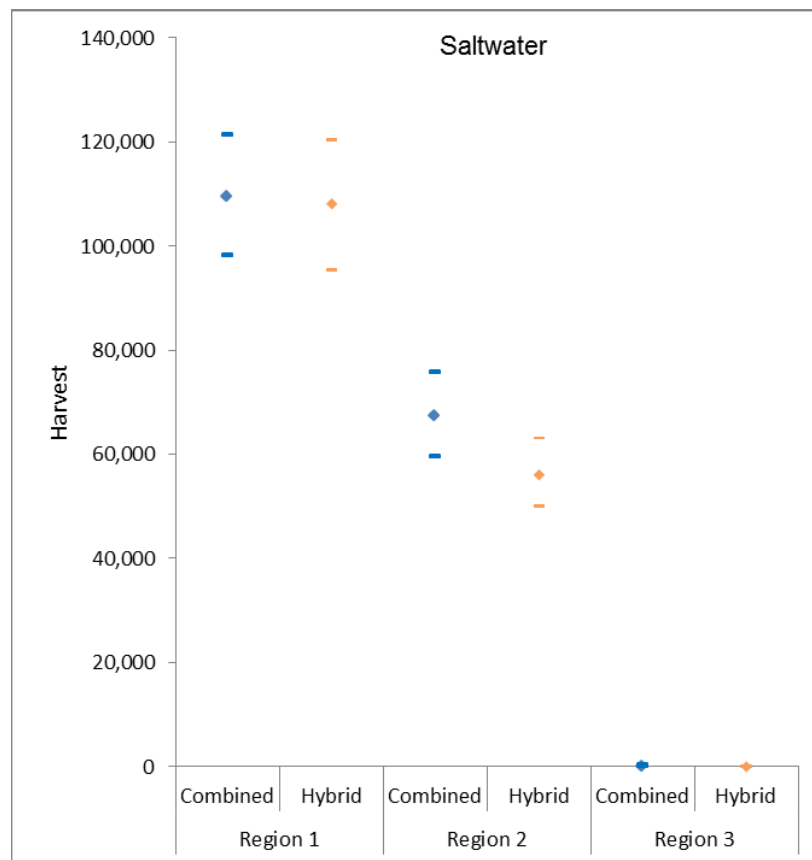


Figure 13.—Estimated saltwater total coho salmon harvest and 95% confidence intervals from the 2009 Hybrid survey and the combined SWHS (late mailing sample) by management region.

Note: Combined = estimate from the combined standard and supplementary SWHS data. See Figure 1 and Table 1 for a list of sport fishing regions and areas.

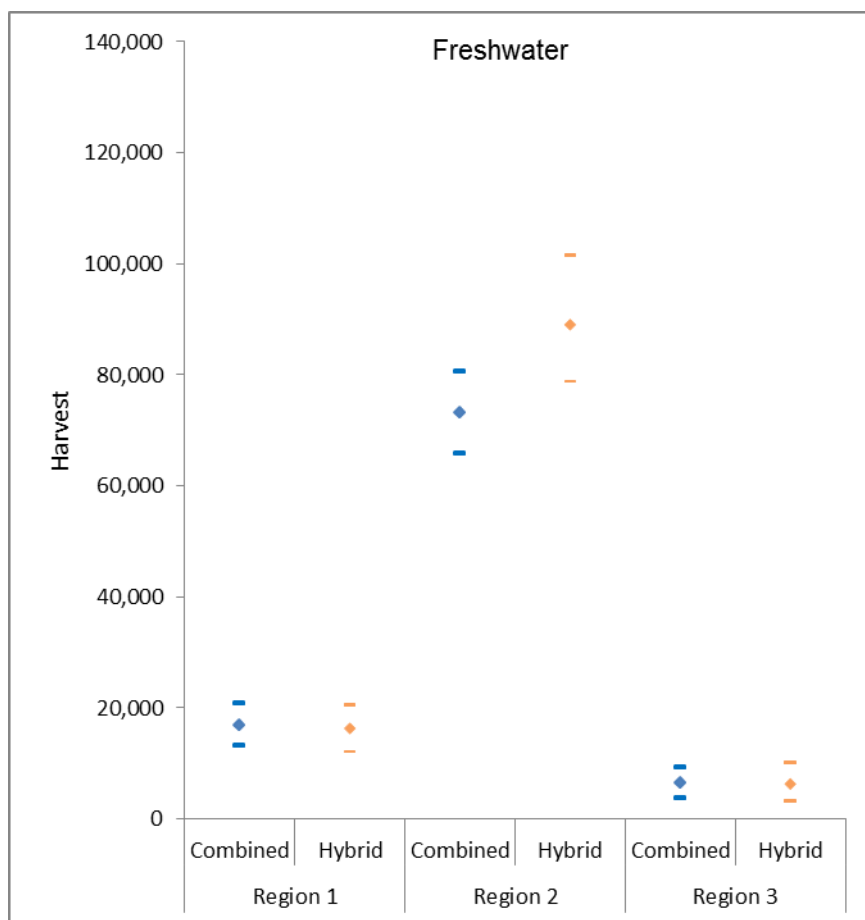


Figure 14.—Estimated freshwater total coho salmon harvest and 95% confidence intervals from the 2009 hybrid survey and the combined SWHS (late mailing sample) by management region.

*Note:* Combined = estimate from the combined standard and supplementary SWHS data. See Figure 1 and Table 1 for a list of sport fishing regions and areas.

Table 12.—Estimated total coho salmon harvest and 95% confidence limits from the 2009 hybrid survey and the standard and supplementary surveys (late mailing sample) by SWHS survey area (A–Z).

Region <sup>a</sup>	SWHS area <sup>a</sup>	Supplementary			Hybrid			Standard		
		Estimate	LCL <sup>b</sup>	UCL <sup>c</sup>	Estimate	LCL <sup>b</sup>	UCL <sup>c</sup>	Estimate	LCL <sup>b</sup>	UCL <sup>c</sup>
Region 1	A	27,490	21,884	33,678	34,736	27,998	42,558	38,268	30,340	46,922
	B	32,426	25,645	39,845	33,791	26,830	41,449	29,643	22,953	37,006
	C	4,941	3,238	6,823	2,706	1,395	4,266	4,563	2,738	6,682
	D	20,464	16,726	24,789	26,932	21,913	32,217	28,212	22,619	33,910
	E	9,611	6,654	12,920	4,265	2,883	6,043	7,847	5,457	10,510
	F	100	0	286	561	144	1,029	742	84	1,609
	G	6,171	4,083	8,505	6,447	4,427	8,709	7,985	5,025	12,040
	H	13,948	10,127	18,219	14,981	9,961	20,418	13,948	10,605	17,970
Region 2	J	60,656	53,219	69,392	48,211	41,882	54,859	64,799	56,460	73,487
	K	6,890	4,696	9,383	4,439	3,023	6,181	14,205	10,453	18,932
	L	2,076	1,082	3,305	2,598	1,303	4,460	2,765	1,771	3,916
	M	11,740	8,372	15,531	15,229	11,834	19,082	12,516	9,700	15,978
	N	4,424	3,256	5,771	4,302	2,833	6,257	5,389	3,799	7,237
	P	28,330	24,506	32,391	43,705	35,914	53,516	34,309	29,474	39,590
	Q	16,339	12,894	19,757	17,263	13,302	21,693	16,373	12,865	20,058
	R	9,003	3,623	18,721	5,066	3,087	7,168	6,135	3,807	9,150
	S	887	358	1,576	762	281	1,381	917	374	1,570
	T	2,712	1,074	5,100	3,514	1,736	5,567	3,847	2,324	5,721
Region 3	I	0	0	0	16	0	48	0	0	0
	U	107	0	313	0	0	0	65	0	196
	V	792	255	1,687	2,794	802	5,819	2,646	1,026	4,529
	W	1,866	859	3,070	2,703	1,037	4,708	3,752	1,972	5,682
	X	0	0	0	0	0	0	0	0	0
	Y	0	0	0	756	16	1,949	1,126	0	2,770
	Z	0	0	0	0	0	0	0	0	0

<sup>a</sup> See Figure 1 and Table 1 for a list of sport fishing regions and areas. Region 1 = Southeast Alaska, Region 2 = Southcentral Alaska, Region 3 = Arctic-Yukon-Kuskokwim.

<sup>b</sup> LCL = lower 95% confidence limit.

<sup>c</sup> UCL = upper 95% confidence limit.

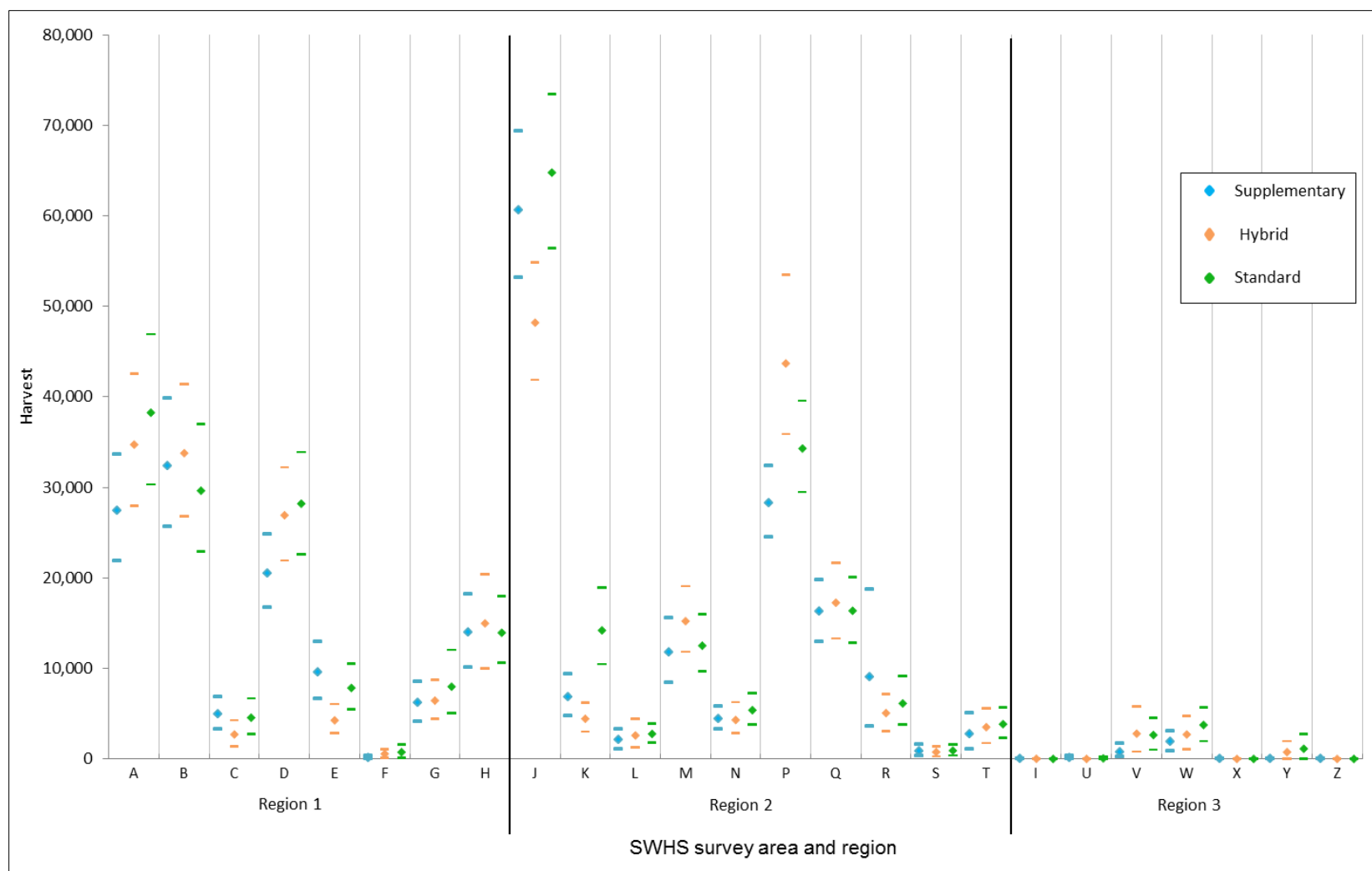


Figure 15.—Estimated total coho salmon harvest and 95% confidence intervals from the 2009 hybrid survey and the standard and supplementary surveys (late mailing sample) by SWHS survey area (A–Z).

*Note:* See Figure 1 and Table 1 for a list of sport fishing regions and areas. Region 1 = Southeast Alaska, Region 2 = Southcentral Alaska, Region 3 = Arctic-Yukon-Kuskokwim.

Table 13.—Estimated total sockeye salmon harvest and 95% confidence limits from the 2009 hybrid survey and the combined SWHS (late mailing sample), 2006–2009.

Harvest	Combined 2006	Combined 2007	Combined 2008	Combined 2009	Hybrid 2009
Estimate	94,885	148,991	107,282	105,216	113,756
LCL <sup>a</sup>	80,388	128,966	94,462	91,660	99,987
UCL <sup>b</sup>	111,243	167,996	120,162	118,483	131,029

*Note:* Combined = estimate from the combined standard and supplementary SWHS data.

<sup>a</sup> LCL = lower 95% confidence limit.

<sup>b</sup> UCL = upper 95% confidence limit.

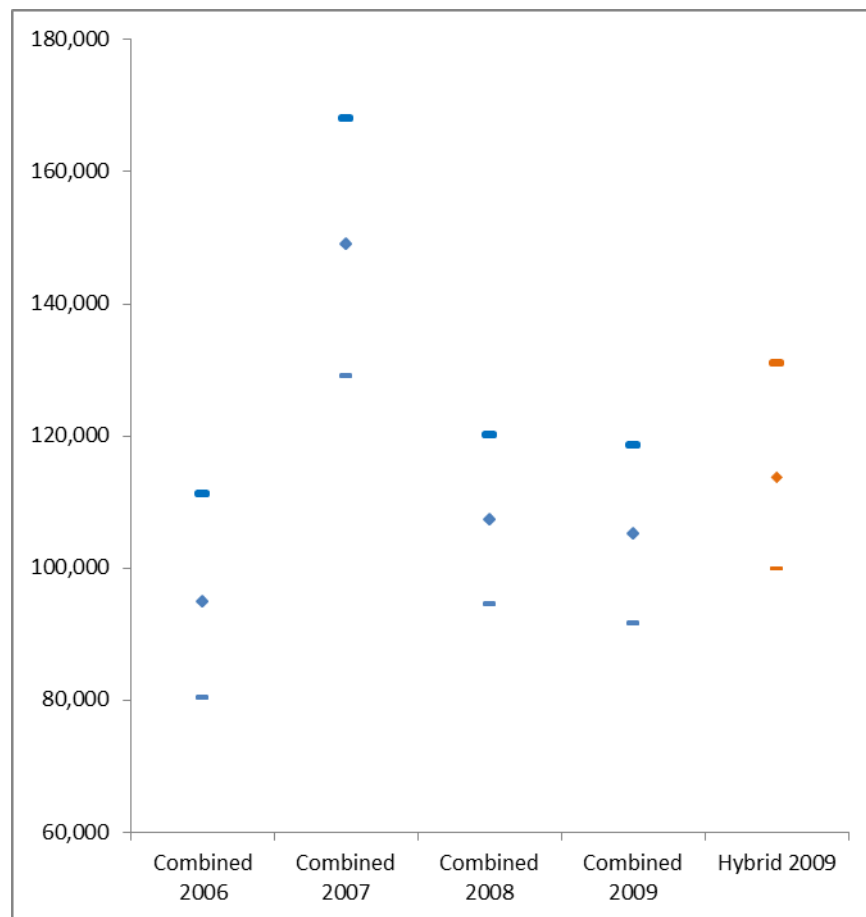


Figure 16.—Estimated total sockeye salmon harvest and 95% confidence intervals from the 2009 hybrid survey and the combined SWHS (late mailing sample), 2006–2009.

*Note:* Combined = estimate from the combined standard and supplementary SWHS data.

Table 14.—Estimated total sockeye salmon harvest and 95% confidence limits from the 2009 hybrid survey and the combined SWHS (late mailing sample) by management region.

Water type	Region <sup>a</sup>	Survey	Harvest	LCL <sup>b</sup>	UCL <sup>c</sup>
Saltwater	1	Combined	2,086	525	4,728
		Hybrid	2,106	805	3,717
	2	Combined	4,197	2,429	6,380
		Hybrid	7,201	4,532	10,082
	3	Combined	0	0	0
		Hybrid	0	0	0
Freshwater	1	Combined	754	250	1,440
		Hybrid	1,529	592	2,811
	2	Combined	96,361	83,647	108,791
		Hybrid	101,836	88,523	118,877
	3	Combined	1,818	719	3,077
		Hybrid	1,084	273	2,052

*Note:* Combined = estimate from the combined standard and supplementary SWHS data.

<sup>a</sup> Region 1 = Southeast Alaska, Region 2 = Southcentral Alaska, Region 3 = Arctic-Yukon-Kuskokwim.

<sup>b</sup> LCL = lower 95% confidence limit.

<sup>c</sup> UCL = upper 95% confidence limit.

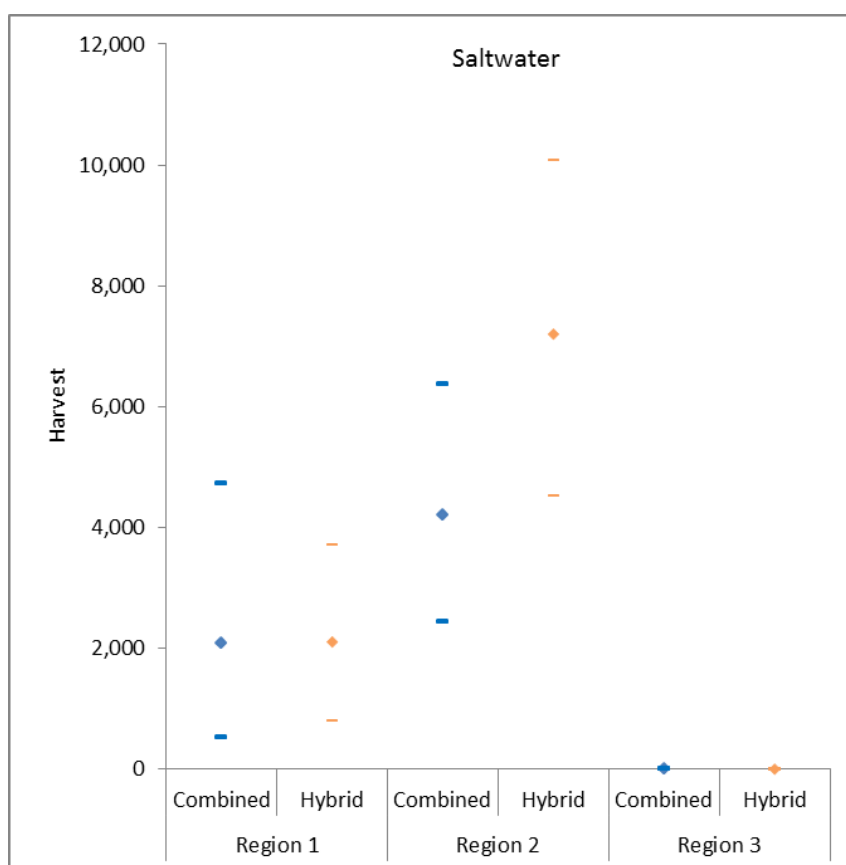


Figure 17.—Estimated saltwater total sockeye salmon harvest and 95% confidence intervals from the 2009 Hybrid survey and the combined SWHS (late mailing sample) by management region.

*Note:* Combined = estimate from the combined standard and supplementary SWHS data. See Figure 1 and Table 1 for a list of sport fishing regions.

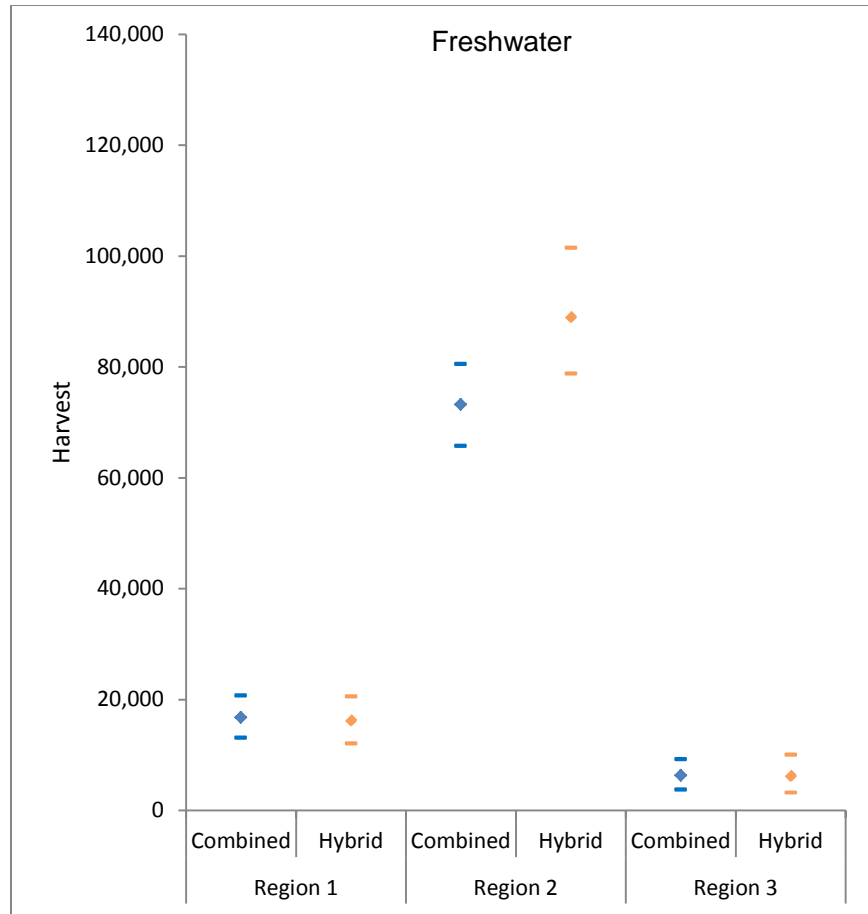


Figure 18.—Estimated freshwater total sockeye salmon harvest and 95% confidence intervals from the 2009 hybrid survey and the combined SWHS (late mailing sample) by management region.

*Note:* Combined = estimate from the combined standard and supplementary SWHS data. See Figure 1 and Table 1 for a list of sport fishing regions.

Table 15.—Comparison of sockeye freshwater salmon harvest estimates from hybrid, supplementary and standard surveys by region and water type, with Region 2 breakdown into Kenai Peninsula vs. other Region 2 areas.

Region <sup>a</sup>	Survey	Harvest	LCL <sup>b</sup>	UCL <sup>c</sup>
Region 1	Supplementary	1,129	370	2,153
	Hybrid	1,529	568	2,750
	Standard	3,031	1,236	5,208
Kenai Peninsula	Supplementary	74,897	61,155	90,734
	Hybrid	78,520	65,856	92,682
	Standard	81,395	69,645	94,401
Remainder of Region 2	Supplementary	17,077	13,196	21,361
	Hybrid	23,314	17,378	30,417
	Standard	29,671	22,325	39,172
Region 3	Supplementary	2,059	718	3,627
	Hybrid	1,084	350	2,116
	Standard	1,392	617	2,356

<sup>a</sup> Region 1 = Southeast Alaska, Region 2 = Southcentral Alaska, Region 3 = Arctic-Yukon-Kuskokwim.

<sup>b</sup> LCL = lower 95% confidence limit.

<sup>c</sup> UCL = upper 95% confidence limit.

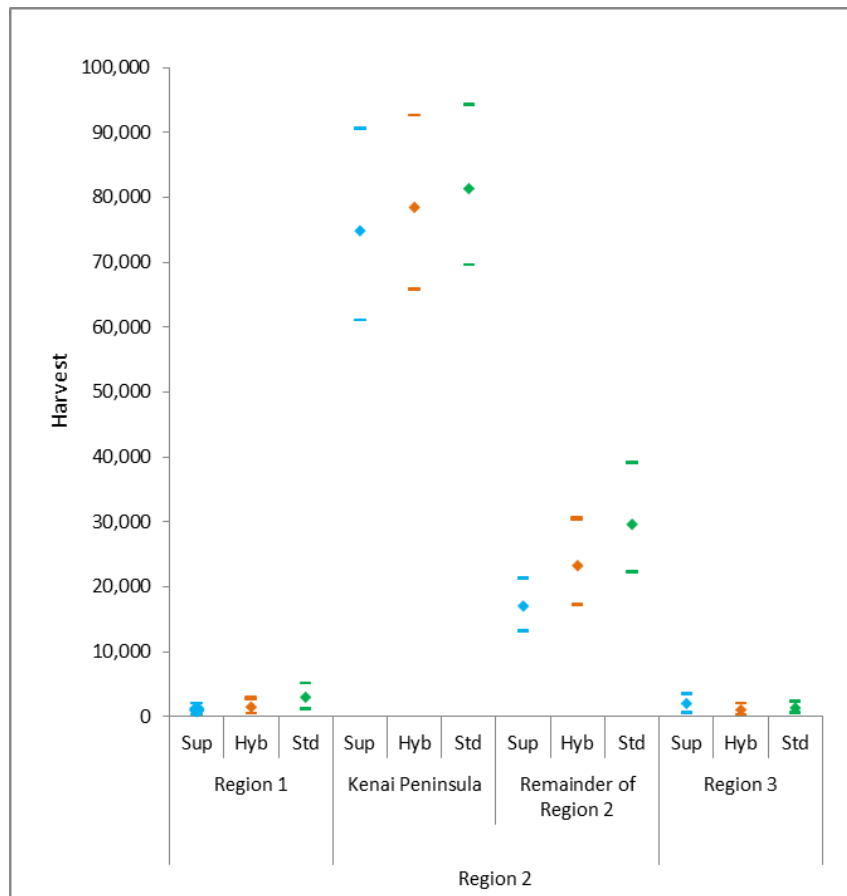


Figure 19.—Estimated freshwater total sockeye salmon harvest and 95% confidence intervals from the 2009 hybrid survey and 2009 supplemental and standard SWHS (late mailing sample) by management region (with Kenai Peninsula breakout).

Note: See Figure 1 and Table 1 for a list of sport fishing regions and areas.



Table 16.—Estimated total rockfish harvest and 95% confidence limits from the 2009 hybrid survey and the combined SWHS (late mailing sample), 2006–2009.

Rockfish harvest	Combined 2006	Combined 2007	Combined 2008	Combined 2009	Hybrid 2009
Harvest	59,857	65,996	95,748	71,122	68,354
LCL <sup>a</sup>	51,111	58,101	79,921	62,961	60,575
UCL <sup>b</sup>	68,657	75,250	118,084	79,628	76,357

*Note:* Combined = estimate from the combined standard and supplementary SWHS data.

<sup>a</sup> LCL =lower 95% confidence limit.

<sup>b</sup> UCL = upper 95% confidence limit.

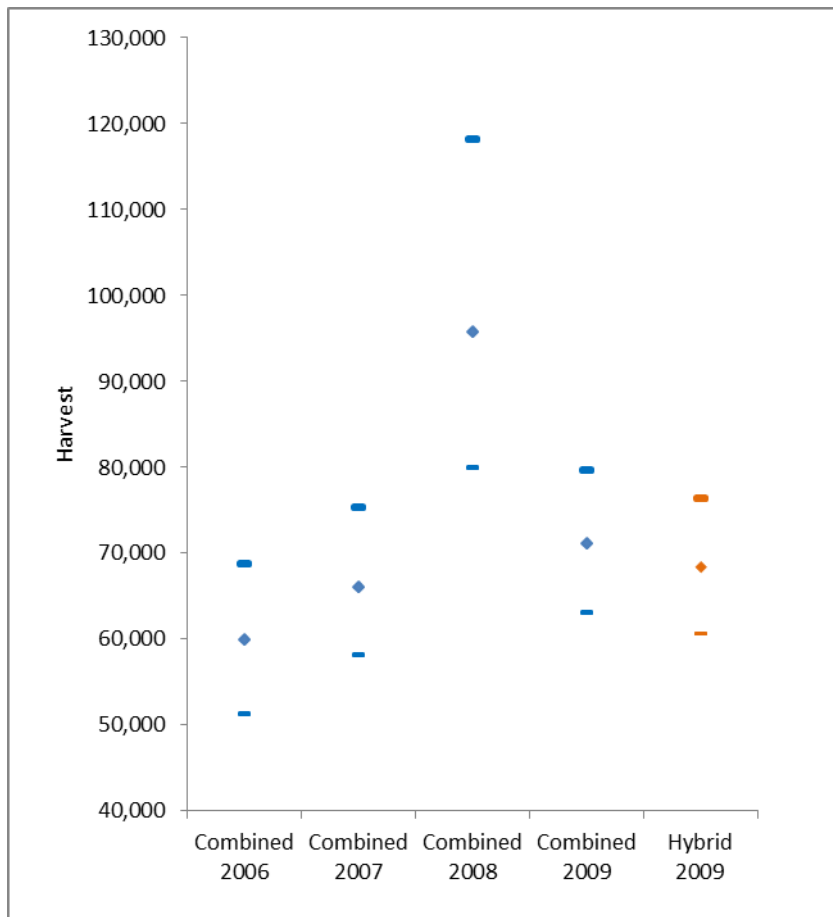


Figure 20.—Estimated total rockfish harvest and 95% confidence intervals from the 2009 hybrid survey and the combined SWHS (late mailing sample) 2006–2009.

*Note:* Combined = estimate from the combined standard and supplementary SWHS data.

Table 17.—Estimated total rockfish harvest and 95% confidence limits from the 2009 hybrid survey and the combined SWHS (late mailing sample) by management region.

Region <sup>a</sup>	Survey	Harvest	LCL <sup>b</sup>	UCL <sup>c</sup>
1	Combined	43,138	36,472	50,183
	Hybrid	36,815	30,619	43,605
2	Combined	27,984	23,173	33,544
	Hybrid	31,539	26,890	36,509
3 <sup>d</sup>	Combined			
	Hybrid			

*Note:* Combined = estimate from the combined standard and supplementary SWHS data.

<sup>a</sup> Region 1 = Southeast Alaska, Region 2 = Southcentral Alaska.

<sup>b</sup> LCL = lower 95% confidence limit.

<sup>c</sup> UCL = upper 95% confidence limit.

<sup>d</sup> No Region 3 estimates were generated due to limited rockfish fishing in Region 3.

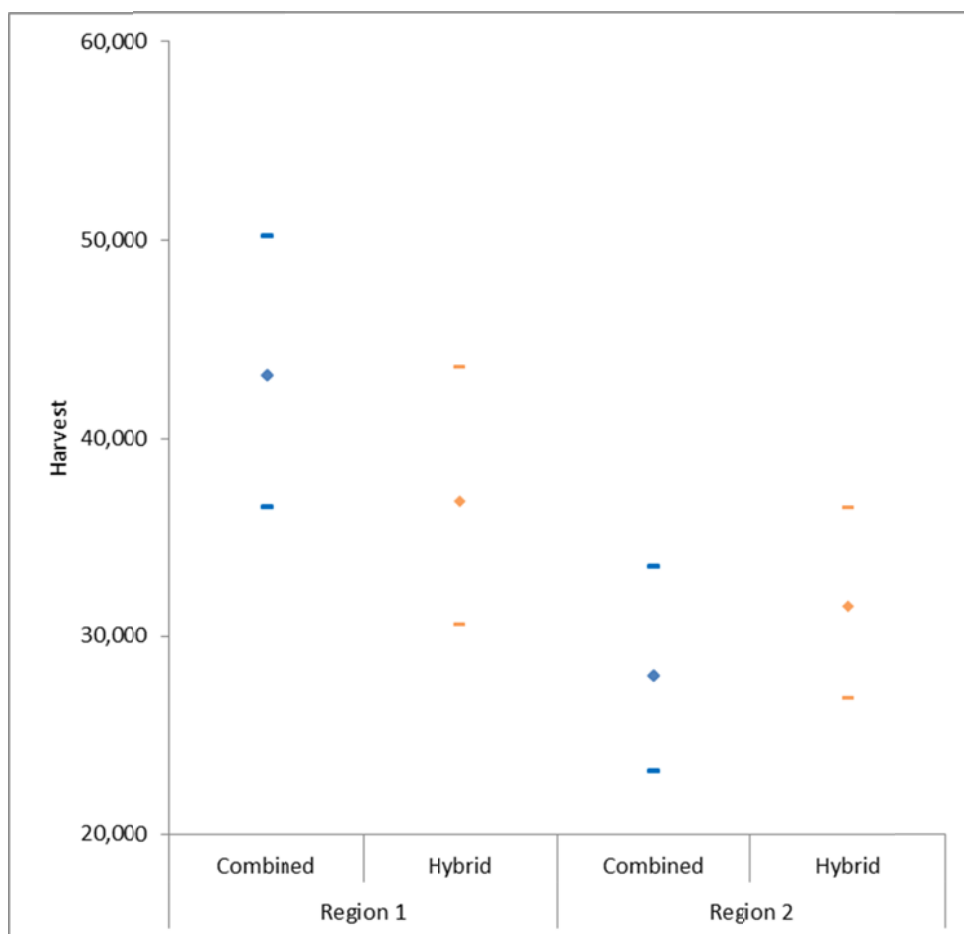


Figure 21.—Estimated total rockfish harvest and 95% confidence intervals from the 2009 hybrid survey and the combined SWHS (late mailing sample) by management region.

*Note:* Combined = estimate from the combined standard and supplementary SWHS data. See Figure 1 and Table 1 for a list of sport fishing regions.

Table 18.—Estimated total rockfish harvest and 95% confidence limits from the 2009 hybrid survey and the standard and supplementary surveys (late mailing sample) by SWHS survey area (A-Z) where rockfish are harvested.

Region <sup>a</sup>	SWHS Area	Supplementary			Hybrid			Standard		
		Harvest	LCL <sup>b</sup>	UCL <sup>c</sup>	Harvest	LCL <sup>b</sup>	UCL <sup>c</sup>	Harvest	LCL <sup>b</sup>	UCL <sup>c</sup>
Region 1	A	3,586	2,429	5,209	4,305	2,855	6,007	5,789	4,148	7,720
	B	14,538	10,049	19,563	10,492	7,282	14,104	7,428	4,905	10,831
	C	1,957	652	3,552	4,039	1,612	7,030	905	357	1,636
	D	15,076	11,389	19,370	13,715	10,105	17,711	11,661	8,817	14,616
	E	4,294	1,632	7,457	1,607	537	3,308	2,500	1,341	4,039
	F	24	0	72	47	0	140	0	0	0
	G	2,422	1,216	3,940	2,262	745	4,507	1,785	962	2,730
	H	531	72	1,184	348	44	766	861	147	2,204
Region 2	J	21,334	17,471	25,311	17,784	14,379	21,002	16,248	13,025	19,679
	P	4,279	2,555	6,452	7,139	4,909	9,673	3,697	2,338	5,204
	Q	9,897	6,408	13,695	6,619	4,149	9,848	4,399	2,820	6,141
	R	0	0	0	0	0	0	265	13	622

*Note:* See Figure 1 and Table 1 for a list of sport fishing regions and areas. Region 1 = Southeast Alaska, Region 2 = Southcentral Alaska, Region 3 = Arctic-Yukon-Kuskokwim.

<sup>a</sup> No Region 3 estimates were generated due to limited rockfish fishing in Region 3.

<sup>b</sup> LCL = lower 95% confidence limit.

<sup>c</sup> UCL = upper 95% confidence limit.

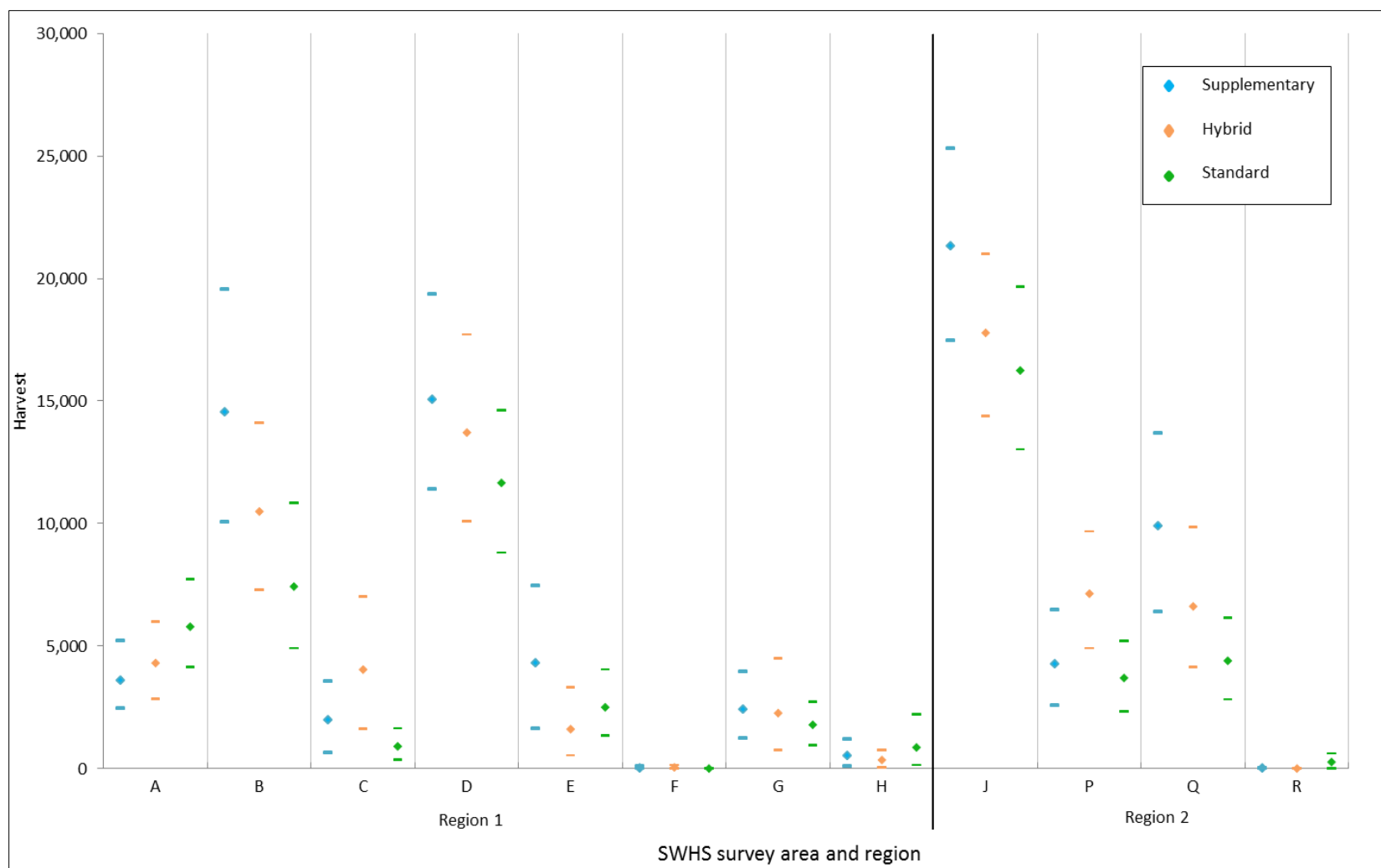


Figure 22.—Estimated total rockfish harvest and 95% confidence intervals from the 2009 hybrid survey and the standard and supplementary surveys (late mailing sample) by SWHS survey area (A-Z) with rockfish harvest.

*Note:* See Figure 1 and Table 1 for a list of sport fishing regions and areas. Region 1 = Southeast Alaska, Region 2 = Southcentral Alaska, Region 3 = Arctic-Yukon-Kuskokwim.

Table 19.—Estimated total rainbow trout catch and 95% confidence limits from the 2009 hybrid survey and the combined SWHS (late mailing sample) by management region.

Region <sup>a</sup>	Survey	Catch	LCL <sup>b</sup>	UCL <sup>c</sup>
1	Combined	1,596	728	2,495
	Hybrid	1,384	571	2,355
2	Combined	202,058	177,537	231,783
	Hybrid	218,094	187,560	252,486
3	Combined	29,582	18,238	43,445
	Hybrid	29,863	17,084	44,504

Note: Combined = estimate from the combined standard and supplementary SWHS data.

<sup>a</sup> Region 1 = Southeast Alaska, Region 2 = Southcentral Alaska, Region 3 = Arctic-Yukon-Kuskokwim.

<sup>b</sup> LCL = lower 95% confidence limit.

<sup>c</sup> UCL = upper 95% confidence limit.

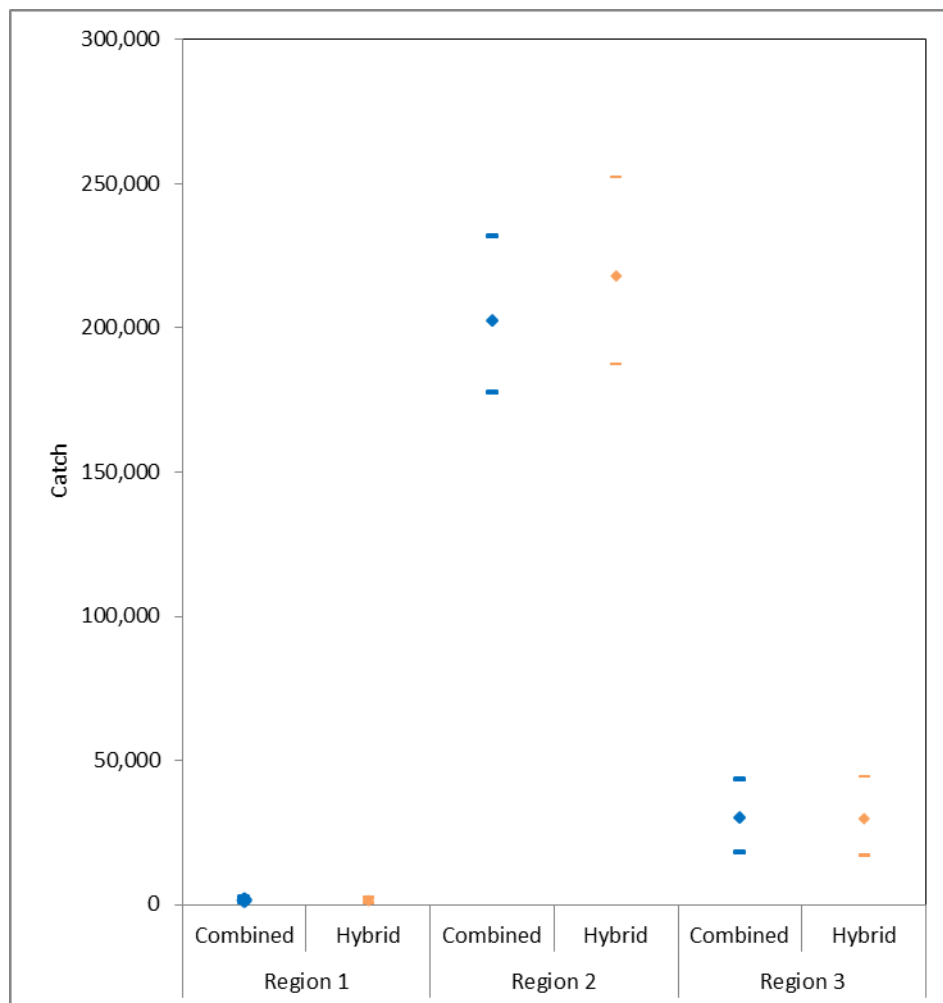


Figure 23.—Estimated total rainbow trout catch and 95% confidence intervals from the 2009 hybrid survey and the combined SWHS (late mailing sample) by management area.

Note: Combined = estimate from the combined standard and supplementary SWHS data.

Note: See Figure 1 and Table 1 for a list of sport fishing regions.

Table 20.—Estimated total rainbow trout catch and 95% confidence limits from the 2009 hybrid survey and the standard and supplementary surveys (late mailing sample) by SWHS survey area (A-Z).

Region <sup>a</sup>	SWHS area	Supplementary			Hybrid			Standard		
		Catch	LCL <sup>b</sup>	UCL <sup>c</sup>	Catch	LCL <sup>b</sup>	UCL <sup>c</sup>	Catch	LCL <sup>b</sup>	UCL <sup>c</sup>
Region 1	A	416	0	993	15	0	44	1,119	0	2,707
	B	471	144	875	1,006	236	1,948	1,184	463	2,056
	C	414	72	848	43	0	128	0	0	0
	D	79	0	236	107	0	321	52	0	156
	E	105	0	314	21	0	64	0	0	0
	F	0	0	0	21	0	64	0	0	0
	G	18	0	54	64	0	193	78	0	234
	H	108	0	289	107	0	321	130	0	286
Region 2	J	289	0	830	0	0	0	0	0	0
	K	3,753	1,430	7,295	4,560	1,670	9,313	10,190	6,996	13,715
	L	1,401	644	2,336	1,726	515	3,215	6,105	2,439	10,970
	M	9,841	6,137	14,478	12,637	7,269	18,676	29,079	17,283	42,628
	N	397	18	1,137	58	0	174	249	15	587
	P	57,332	46,060	69,066	86,007	67,917	108,206	81,573	65,068	100,797
	Q	108	0	289	5,209	193	14,896	348	0	814
	R	17,072	9,453	27,688	21,902	13,489	32,888	29,733	19,365	41,894
	S	59,726	46,270	74,930	75,721	57,437	96,657	64,673	45,727	88,176
	T	10,566	6,563	14,942	10,274	5,309	16,244	21,872	14,497	31,041
Region 3	I	270	54	544	902	87	2,383	1,156	115	2,952
	U	3,536	1,895	5,387	2,175	937	3,774	7,420	3,593	12,398
	V	18,345	10,000	27,611	26,786	14,710	41,346	34,000	18,179	54,360
	W	0	0	0	0	0	0	0	0	0
	X	0	0	0	0	0	0	0	0	0
	Y	0	0	0	0	0	0	0	0	0
	Z	0	0	0	0	0	0	0	0	0

*Note:* Combined = estimate from the combined standard and supplementary SWHS data. See Figure 1 and Table 1 for a list of sport fishing regions and areas.

<sup>a</sup> Region 1 = Southeast Alaska, Region 2 = Southcentral Alaska, Region 3 = Arctic-Yukon-Kuskokwim.

<sup>b</sup> LCL = lower 95% confidence limit.

<sup>c</sup> UCL = upper 95% confidence limit.

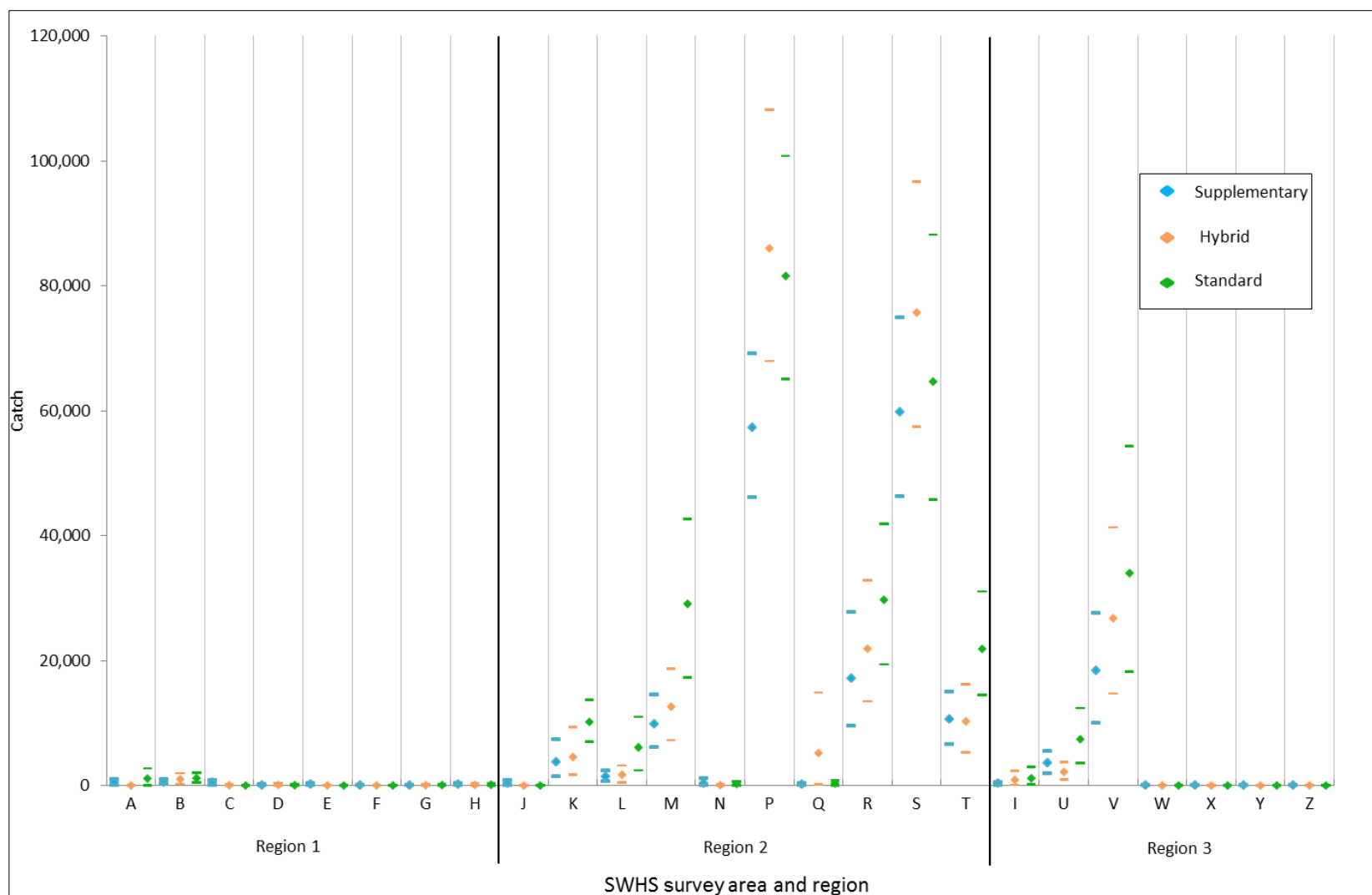


Figure 24.—Estimated total rainbow trout catch and 95% confidence intervals from the 2009 hybrid survey and the standard and supplementary surveys (late mailing sample) by SWHS survey area (A-Z).

*Note:* See Figure 1 and Table 1 for a list of sport fishing regions and areas. Region 1 = Southeast Alaska, Region 2 = Southcentral Alaska, Region 3 = Arctic-Yukon-Kuskokwim.

Table 21.—Estimated total Dolly Varden/Arctic char catch and 95% confidence limits from the 2009 hybrid survey and the combined SWHS (late mailing sample) by management region.

Region <sup>a</sup>	Survey	Catch	LCL <sup>b</sup>	UCL <sup>c</sup>
1	Combined	17,024	10,100	26,599
	Hybrid	10,894	4,759	18,625
2	Combined	161,894	134,313	190,173
	Hybrid	158,143	131,481	189,022
3	Combined	48,341	30,241	67,097
	Hybrid	26,317	14,015	40,231

Note: Combined = estimate from the combined standard and supplementary SWHS data.

<sup>a</sup> Region 1 = Southeast Alaska, Region 2 = Southcentral Alaska, Region 3 = Arctic-Yukon-Kuskokwim.

<sup>b</sup> LCL = lower 95% confidence limit.

<sup>c</sup> UCL = upper 95% confidence limit.

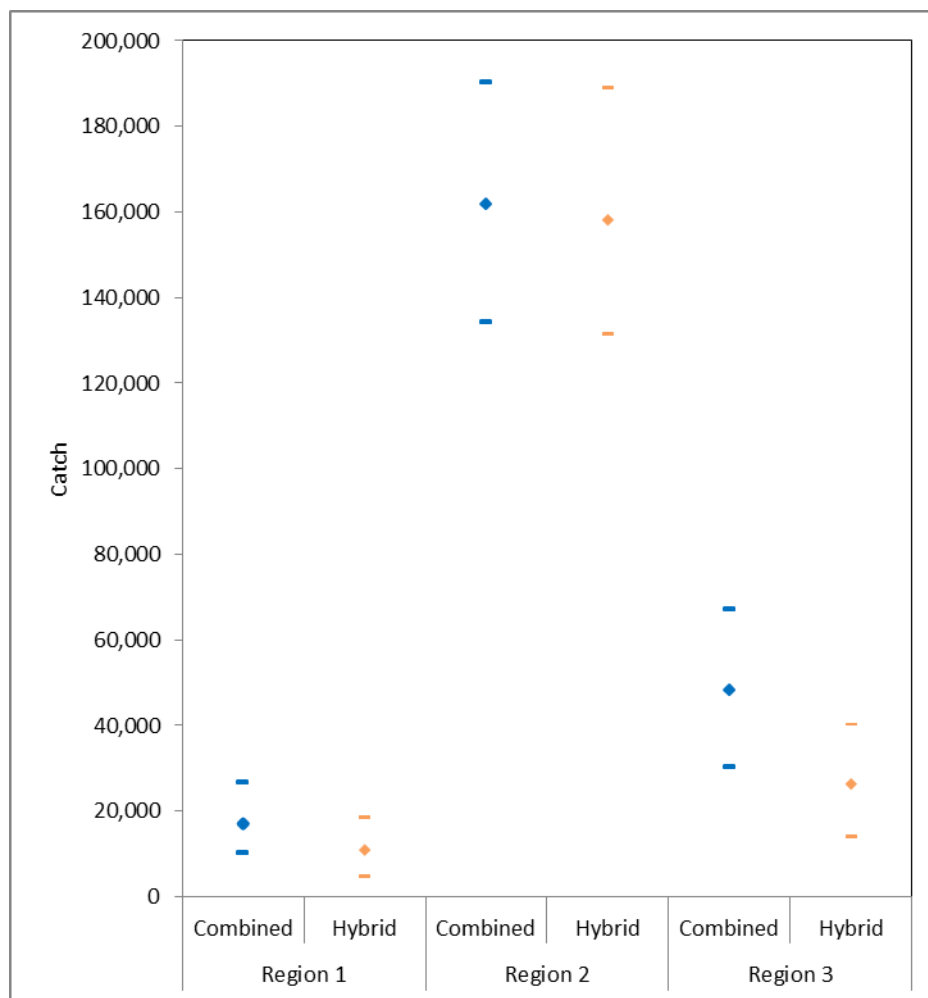


Figure 25.—Estimated total Dolly Varden/Arctic char catch and 95% confidence intervals from the 2009 hybrid survey and the combined SWHS (late mailing sample) by management region.

Note: Combined = estimate from the combined standard and supplementary SWHS data. See Figure 1 and Table 1 for a list of sport fishing regions and areas.



Table 22.—Estimated total Dolly Varden/Arctic char catch and 95% confidence limits from the 2009 Hybrid survey and the Standard and Supplementary surveys (late mailing sample) by SWHS survey area (A-Z).

Region <sup>a</sup>	SWHS area	Supplementary			Hybrid			Standard		
		Catch	LCL <sup>b</sup>	UCL <sup>c</sup>	Catch	LCL <sup>b</sup>	UCL <sup>c</sup>	Catch	LCL <sup>b</sup>	UCL <sup>c</sup>
Region 1	A	630	43	1,501	47	0	142	1,077	154	2,592
	B	1,437	674	2,419	2,534	426	5,824	3,977	1,350	7,426
	C	2,027	440	3,974	101	0	271	446	0	1,183
	D	6,788	43	16,834	713	0	2,087	438	0	1,166
	E	2,952	1,479	4,559	5,107	846	12,398	4,522	1,749	8,076
	F	369	87	762	379	142	687	2,784	691	5,257
	G	434	43	1,000	663	0	1,918	1,107	194	2,325
	H	1,216	391	2,284	1,350	237	3,315	777	146	1,676
Region 2	J	3,940	1,776	6,522	1,681	497	3,196	1,466	308	3,239
	K	3,866	270	10,364	54	0	162	1,573	613	2,800
	L	1,005	152	2,254	501	0	1,211	1,199	231	2,542
	M	2,411	1,210	3,856	4,623	2,269	7,376	3,562	1,670	5,980
	N	1,164	470	2,079	1,088	284	2,202	1,051	343	2,093
	P	60,755	46,576	75,786	91,266	72,693	112,484	85,953	66,273	106,729
	Q	15,501	4,859	29,257	19,460	9,723	31,416	7,934	3,760	14,198
	R	17,880	9,639	28,606	18,664	7,670	33,069	25,221	16,574	35,334
	S	5,850	2,893	9,439	8,386	1,894	16,783	7,903	3,651	12,858
	T	17,933	7,564	31,514	12,420	6,629	19,446	15,364	9,811	21,395
Region 3	I	83	0	226	0	0	0	173	0	391
	U	957	287	1,855	240	0	697	1,629	231	3,721
	V	28,064	15,529	41,949	22,196	10,724	35,676	36,785	20,609	56,538
	W	6,346	2,214	12,498	3,544	216	7,475	11,041	3,725	19,699
	X	3,192	287	8,001	94	0	237	178	0	511
	Y	1,414	0	4,177	118	0	355	391	49	904
	Z	1,531	304	3,115	125	0	321	611	73	1,490

Note: See Figure 1 and Table 1 for a list of sport fishing regions and areas.

<sup>a</sup> Region 1 = Southeast Alaska, Region 2 = Southcentral Alaska, Region 3 = Arctic-Yukon-Kuskokwim.

<sup>b</sup> LCL = lower 95% confidence limit.

<sup>c</sup> UCL = upper 95% confidence limit.

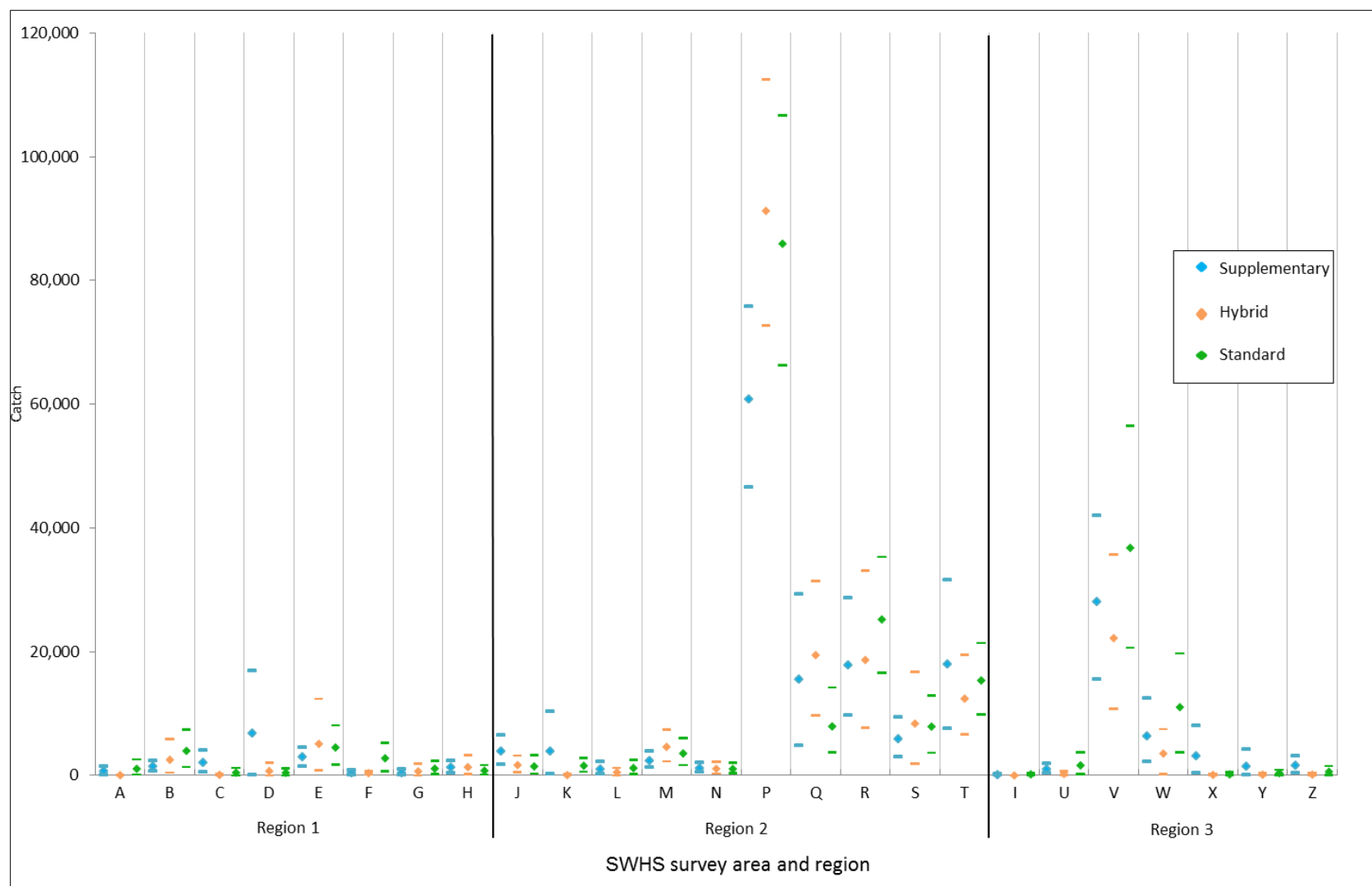


Figure 26.—Estimated total Dolly Varden/Arctic char catch and 95% confidence intervals from the 2009 hybrid survey and the standard and supplementary surveys (late mailing sample) by SWHS survey area (A-Z).

*Note:* See Figure 1 and Table 1 for a list of sport fishing regions and areas. Region 1 = Southeast Alaska, Region 2 = Southcentral Alaska, Region 3 = Arctic-Yukon-Kuskokwim.

Table 23.–Estimated total Arctic grayling catch and 95% confidence limits from the 2009 hybrid survey and the combined SWHS (late mailing sample) by management region.

Region	Survey	Catch	LCL	UCL
1	Combined	179	0	538
	Hybrid	0	0	0
2	Combined	41,206	29,083	56,728
	Hybrid	26,176	17,205	36,180
3	Combined	81,351	60,290	106,943
	Hybrid	62,587	42,217	86,406

*Note:* Combined = estimate from the combined standard and supplementary SWHS data.

<sup>a</sup> Region 1 = Southeast Alaska, Region 2 = Southcentral Alaska, Region 3 = Arctic-Yukon-Kuskokwim.

<sup>b</sup> LCL = lower 95% confidence limit.

<sup>c</sup> UCL = upper 95% confidence limit.

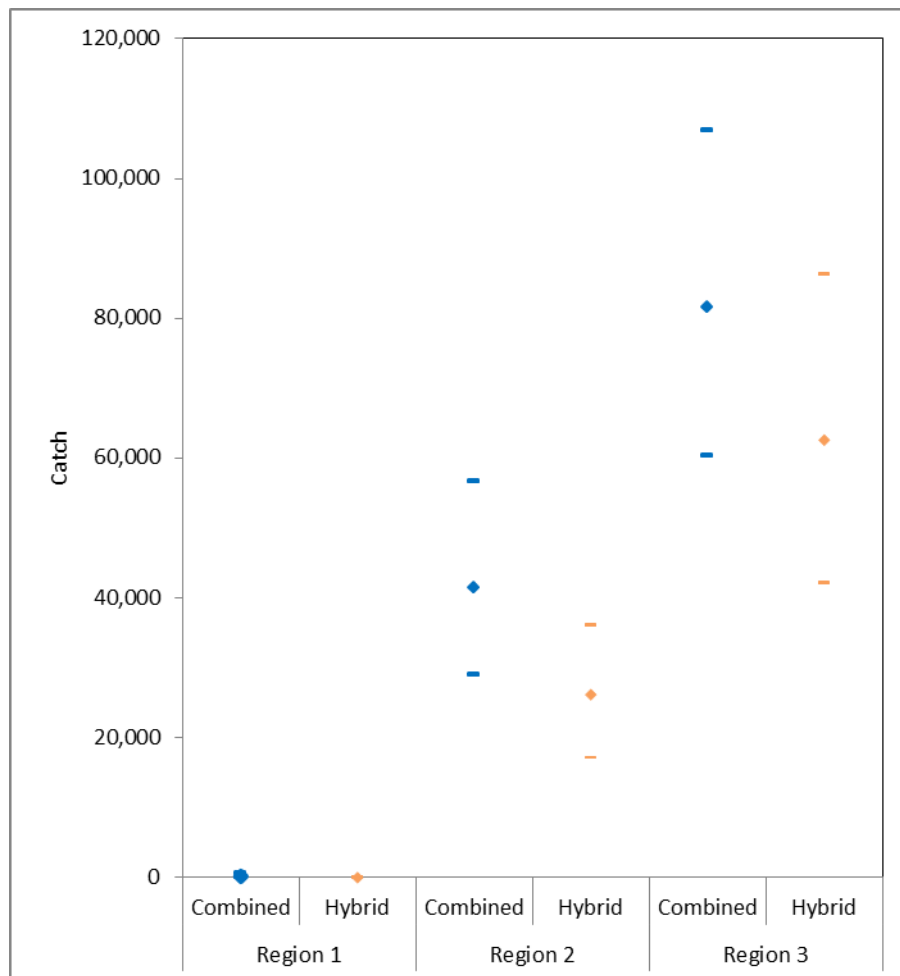


Figure 27.–Estimated total Arctic grayling catch and 95% confidence intervals from the 2009 hybrid survey and the combined SWHS (late mailing sample) by management region.

*Note:* Combined = estimate from the combined standard and supplementary SWHS data. See Figure 1 and Table 1 for a list of sport fishing regions.

Table 24.—Estimated total Arctic grayling catch and 95% confidence limits from the 2009 hybrid survey and the standard and supplementary surveys (late mailing sample) by SWHS survey area (A-Z).

Region <sup>a</sup>	SWHS area	Supplementary			Hybrid			Standard		
		Catch	LCL <sup>b</sup>	UCL <sup>c</sup>	Catch	LCL <sup>b</sup>	UCL <sup>c</sup>	Catch	LCL <sup>b</sup>	UCL <sup>c</sup>
Region 2	J	145	0	386	237	0	710	0	0	0
	K	592	24	1,416	250	0	561	165	0	377
	L	0	0	0	0	0	0	637	0	1,698
	M	9,361	3,446	17,886	6,764	3,071	12,416	5,496	2,051	11,867
	N	0	0	0	0	0	0	24	0	73
	P	4,485	828	8,697	1,759	135	4,258	5,032	1,710	9,379
	Q	0	0	0	0	0	0	0	0	0
	R	290	48	642	2,722	284	6,605	2,501	971	4,324
	S	5,599	2,943	9,307	6,964	2,604	13,167	8,814	4,186	14,761
	T	4,494	1,743	7,885	7,480	3,365	12,764	17,396	9,025	28,894
Region 3	I	3,551	991	8,117	6,609	2,077	12,517	6,748	2,302	12,545
	U	25,759	15,282	37,641	27,071	14,838	41,360	23,340	15,672	30,762
	V	9,579	4,479	15,447	21,383	8,347	39,826	16,930	8,187	27,330
	W	1,990	725	3,795	2,034	172	5,090	6,437	2,745	10,894
	X	1,480	177	3,282	473	0	1,420	1,327	47	3,700
	Y	4,753	1,499	8,802	3,492	298	8,803	16,332	2,370	38,891
	Z	5,037	482	12,919	1,525	54	3,511	871	194	1,738

<sup>a</sup> Region 1 = Southeast Alaska, Region 2 = Southcentral Alaska, Region 3 = Arctic-Yukon-Kuskokwim. No catch was recorded for Region 1.

<sup>b</sup> LCL = lower 95% confidence limit.

<sup>c</sup> UCL = upper 95% confidence limit.

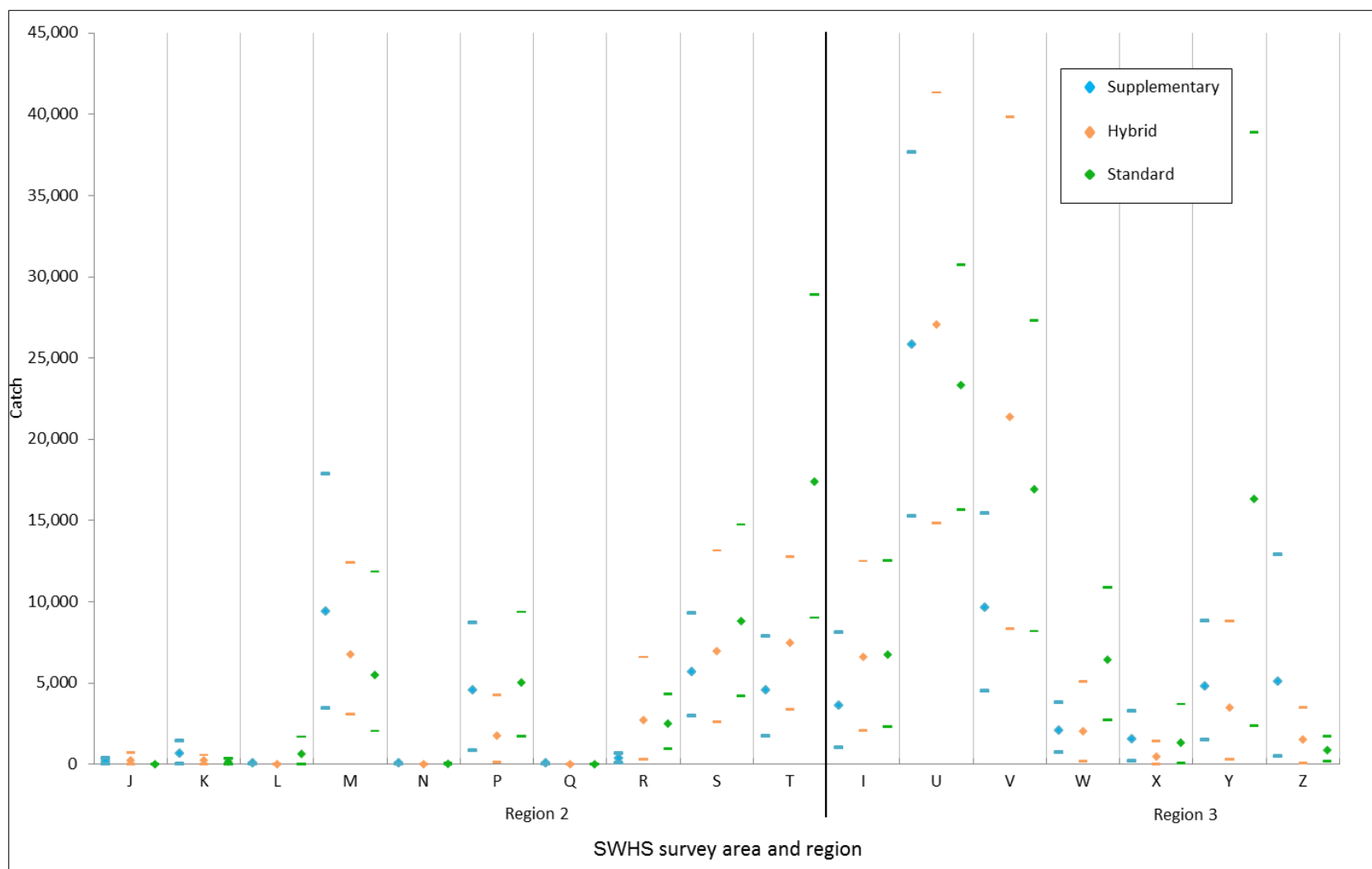


Figure 28.—Estimated total Arctic grayling catch and 95% confidence intervals from the 2009 hybrid survey and the standard and supplementary surveys (late mailing sample) by SWHS survey area (A-Z).

Note: See Figure 1 and Table 1 for a list of sport fishing regions and areas. Region 1 = Southeast Alaska, Region 2 = Southcentral Alaska, Region 3 = Arctic-Yukon-Kuskokwim.

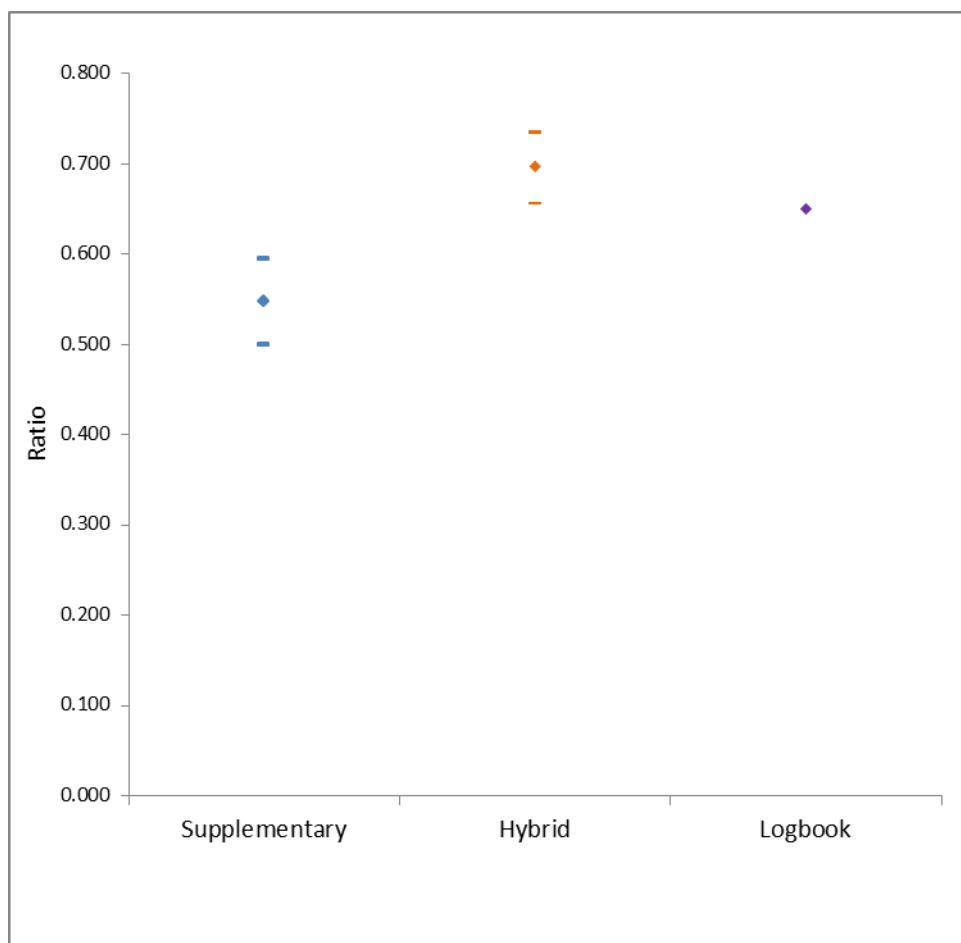


Figure 29.—Estimated ratios and 95% confidence intervals of guided halibut harvest for Cook Inlet versus all Region 2 waters from the 2009 Supplementary SWHS, Hybrid survey, and the 2009 Guide Logbook database.

*Note:* Logbook value is considered a census count and is not a survey-based estimate having a confidence interval.

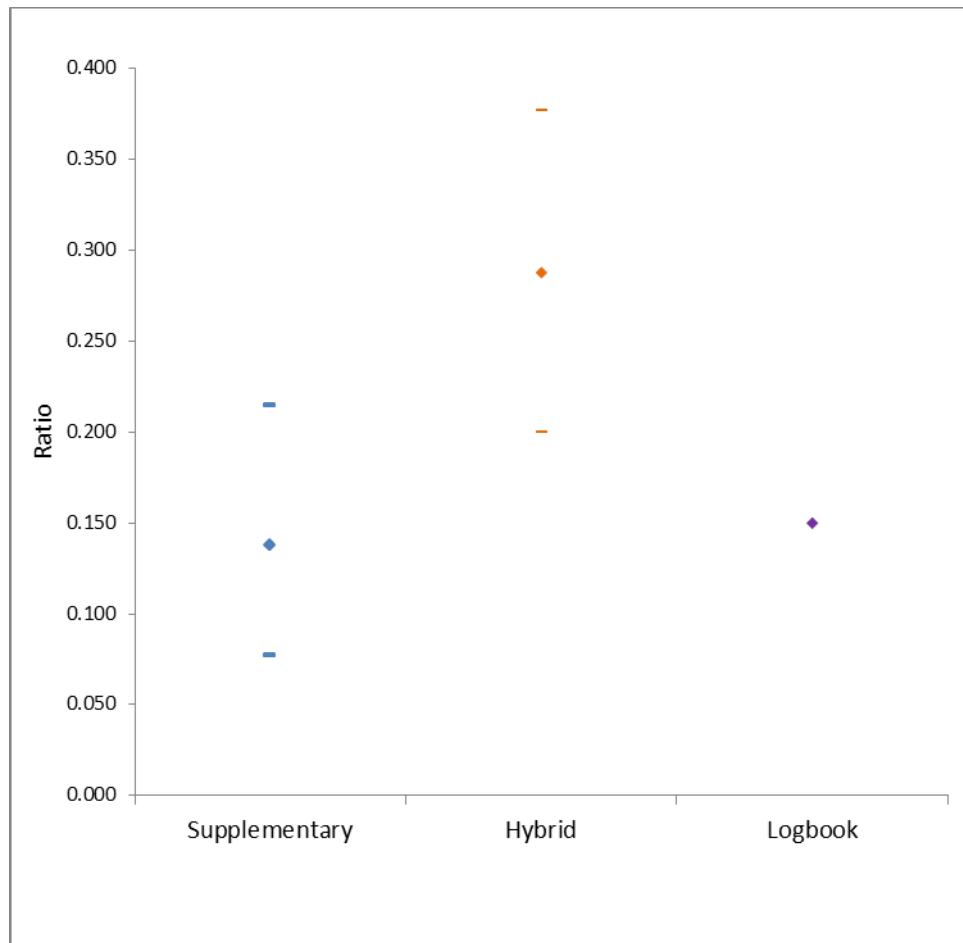


Figure 30.—Estimated ratios and 95% confidence intervals of guided rockfish harvest for Cook Inlet versus all Region 2 waters from the 2009 supplementary SWHS, hybrid survey, and the 2009 Guide Logbook database.

*Note:* Logbook value is considered a census count and is not a survey-based estimate having a confidence interval.

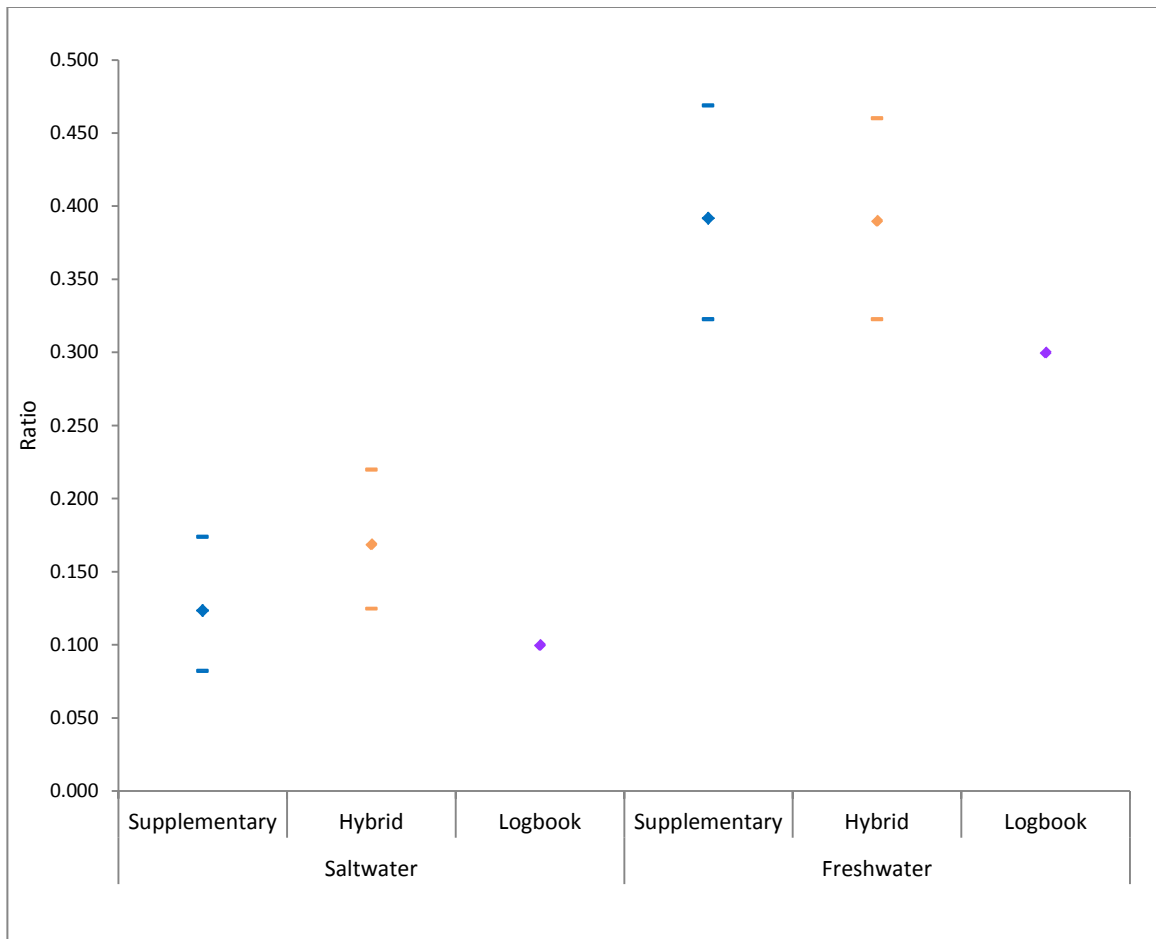


Figure 31.—Estimated ratios and 95% confidence intervals of guided coho salmon harvest by water type for Cook Inlet versus all Region 2 from the 2009 supplementary SWHS, hybrid survey, and the 2009 Guide Logbook database.

*Note:* Logbook value is considered a census count and is not a survey-based estimate having a confidence interval.



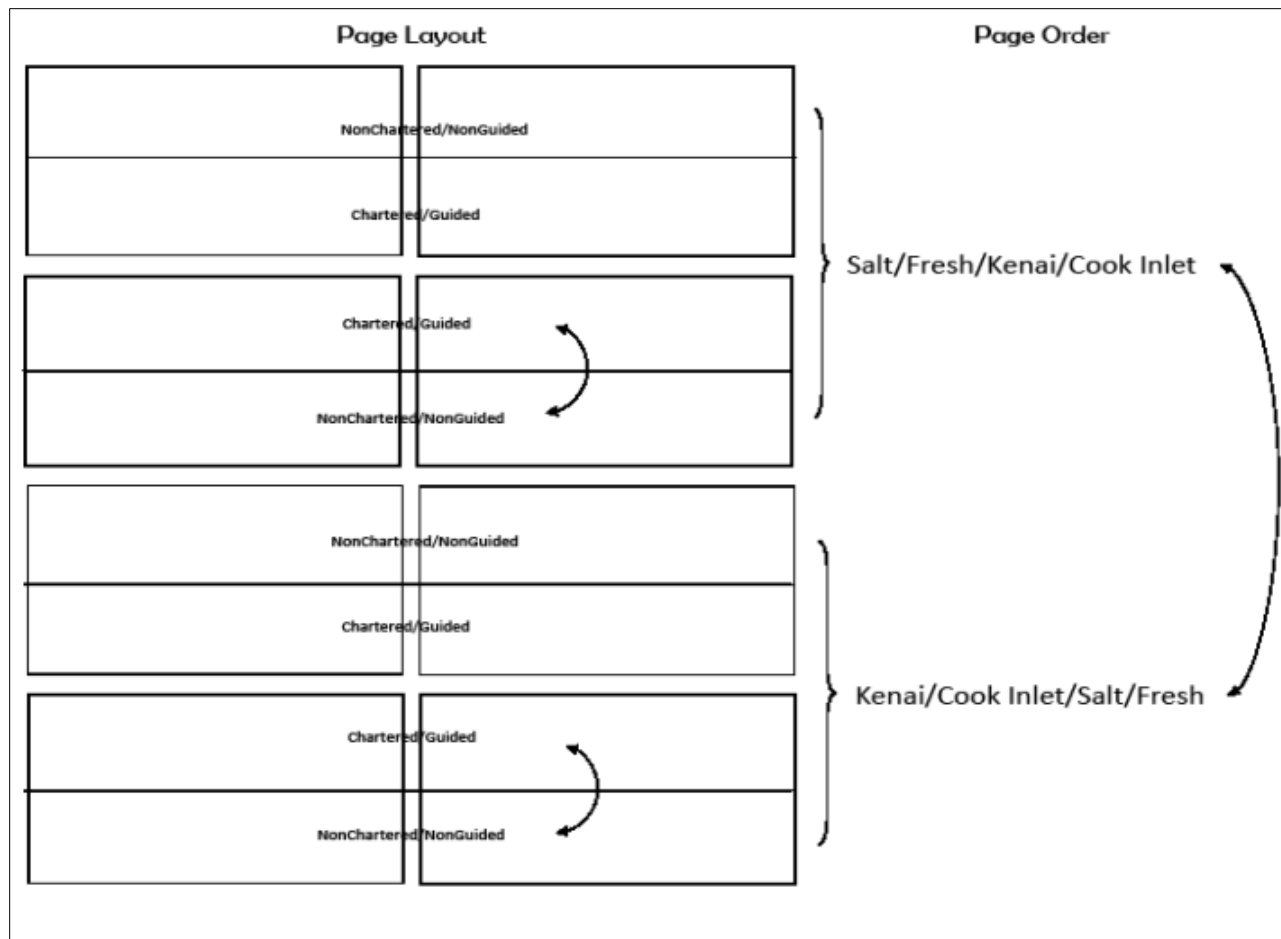


Figure 32.—Proposed page order/page layout for the modified hybrid booklet for 2011.



**APPENDIX A: DRAFT HYBRID SURVEY QUESTIONNAIRE  
AND FOCUS GROUP REPORTS BY CRACIUN RESEARCH**

*ALASKA DEPARTMENT OF FISH AND GAME*

# *2009 Sport Fish Survey*



Alaska Department of Fish and Game  
Division of Sport Fish (RTS)  
333 Raspberry Road  
Anchorage, Alaska 99518  
(907) 267-2280

*We are interested in knowing about your Alaskan fishing experiences in 2009.*

*Even if you did not fish in 2009, please answer the questions on page 3.*

*You need only fill out the pages for areas of Alaska where you or your household members fished. We ask that you do **not** include subsistence caught fish.*

*Use the Mapsite booklet to assist you in finding Area and Site descriptions.*

*Thank-you*



**PLEASE ANSWER THE GENERAL QUESTIONS ON PAGE 3**  
**THE ENCLOSED MAPSITE BOOKLET WILL IDENTIFY COMMON FISHING SITES**

## INSTRUCTIONS

**Please help reduce costs:** We mail up to 2 reminders to those who do not respond. You can help reduce costs by replying promptly.

**Report your household's sportfishing only.** A "household" is defined as all people sharing a principal place of residence. This excludes people renting (subletting) within a home. Do not include visitors to your home, even if they are family members.

**What if your household did not sport fish in 2009?** Answer the questions on page 3 and return the survey in the postage-paid envelope so we may avoid mailing you additional 2009 surveys.

**What if your household did sport fish in 2009?**

- Answer the questions on page 3.
- Use the Mapsite booklet to identify fishing sites. Complete the pages in this booklet that cover the areas where you or your household members fished.
- Return the survey in the postage-paid envelope.

**Period covered:** January 1 through December 31, 2009.

**What to include:** Report all your household sport, shellfish and personal use fishing information. If you are the beneficiary (the one who keeps the fish) of a proxy, report that fishing activity as part of your household.

**What to exclude:** Do not report commercially caught or subsistence caught fish. A sportfishing guide should not report client information. Do not report fish caught while proxy fishing for someone outside your household. Report only your own household information.

**SPORT ANGLERS LIVING OUTSIDE OF THE UNITED STATES:** The postage permit that we have for return mail is valid only within the United States. Because the survey helps us to offer world class fishing experiences for all anglers, we ask that you return the survey by supplying your own postage.

**Still have questions?** If you have questions about this survey, please call (907) 267-2280 or contact us via email at: [dfg.dsf.publications@alaska.gov](mailto:dfg.dsf.publications@alaska.gov)

## WHERE TO RECORD YOUR SPORTFISHING ACTIVITIES

SECTIONS	Pages
SALTWATER SPORTFISHING	6-7
FRESHWATER SPORTFISHING	8-9
COOK INLET and KACHEMAK BAY SALTWATER FISHING (See Mapsite Booklet Page 15)	10
KENAI, KASILOF, and RUSSIAN RIVER FRESHWATER FISHING (See Mapsite Booklet Page 16-17)	11
SHELLFISH	12
PERSONAL USE SALMON DIPNETTING	12

**PLEASE COMPLETE THIS SURVEY BOOKLET, AND RETURN IT IN THE ENCLOSED ENVELOPE**

1A. How many people in your household purchased a 2009 Alaska sportfishing license? ..... \_\_\_\_\_

1B. How many people recorded in 1A (above) sport fished in Alaska in 2009? ..... \_\_\_\_\_

2A. How many people in your household under 16 years of age sport fished in Alaska in 2009? .....

2B. How many Alaska residents in your household have a permanent identification card for Alaska sportfishing (Alaska residents 60 years of age and older, or Alaska resident disabled veterans) including those who did not fish in Alaska? .....

2C. How many people recorded in 2B (above) sport fished in Alaska in 2009? .....

3. How many total people in your household sport fished in Alaska during 2009? .....

**Mapsite Booklet, Pages 10, 21-23**  
**Arctic-Yukon-Kuskokwim Alaska**

**ALASKA**

**Mapsite Booklet, Pages 2-8**  
**Southeast Alaska**

**Mapsite Booklet, Pages 18-20**  
**Southwest Alaska**

**Mapsite Booklet, Pages 9-17**  
**Southcentral Alaska**

Barrow  
Prudhoe Bay  
Kotzebue  
Nome  
Fairbanks  
Bethel  
Dillingham  
Homer  
Kenai  
Seward  
Palmer  
Glennallen  
Anchorage  
Valdez  
Yakutat  
Juneau  
Sitka  
Petersburg  
Kodiak  
Ketchikan

## HOW TO RECORD YOUR HOUSEHOLD'S 2009 SPORT FISHING

- 1 ► **Sections:** Use the Sections Listing on page 2 to identify the pages you will need to complete based on your household's 2009 sportfishing activities. Please be sure to record your fishing as saltwater or freshwater, guided or non-guided by choosing the the appropriate sections. Do not combine saltwater and freshwater fishing on one line.
- 2 ► **Site Name:** Write the name of each site where you fished. Names of some commonly fished sites are provided in the Mapsite booklet included in this packet. If you cannot locate a fishing site in the Mapsite book, please write the area and the name of the location. Cook Inlet, and Kenai, Kaslof and Russian rivers have pages specifically designed for recording fishing at these sites: find them on pages 10-11.
- 3 ► **Area Code Letter:** The Mapsite booklet divides Alaska into areas labeled A through Z. Use the Mapsite booklet to determine the area code letter for each of your fishing locations and write it in the column marked Area Code Letter.
- 4 ► **Site Number:** The Mapsite booklet lists the names and site numbers of some commonly fished sites in Alaska. Determine the correct site number for each location and write it in the Site Number column. If you do not find your site in the Mapsite booklet, please be sure to record the Area Code Letter and the fishing site with a brief description in the **Site Name** column.
- 5 ► **Fishery Type:** Mark whether you fished from a boat or from the shore/bank. If you fished from both a boat and on the shore/bank at the same location, check both boxes.
- 6 ► **Number of Household Anglers:** Record how many anglers in your household fished at this site.
- 7 ► **Number of Household Trips:** Record the number of trips made to this site (a trip, which may last one or more days, is a visit to a fishing location).
- 8 ► **Sum of each Household Angler's Days Fished:** Add up the **TOTAL** number of days each household member fished at this site. Count any part of a day as a whole day. If two or more anglers fished the same day, include that day in each angler's sum. Then total all anglers' days for that site. Example: If three household anglers fish two days at the same site, the sum of the household anglers' days fished = 6.

EXAMPLE: A man and his wife fished together on 3 trips to the ABC River. They both fished 1 day on each of these trips, and caught a total of 4 silver salmon and kept 3. The man then fished alone on 1 additional trip for half a day (for the survey purposes, any part of a day is counted as a whole day) but he didn't catch anything on this trip.

This survey respondent should record these trips with the following information (see the facing page for more detailed instructions).

Fishing Sites			Fishery Type		6 ▼	7 ▼	8 ▼	Silver (Coho) Salmon		Pink Salmon		Red (Sockeye) Salmon		Rainbow Trout		Chum Salmon		Dolly Varden/ Arctic Char	
2 ► Site Name	3 ▼ Area Code Letter	4 ▼ Site Number	5 ► B O A T	5 ► B A N K	No. of Household Anglers	No. of Household Trips	Sum of Each Household Angler's Days Fished	C A U G H T	K E P T	C A U G H T	K E P T	C A U G H T	K E P T	C A U G H T	K E P T	C A U G H T	K E P T	C A U G H T	K E P T
ABC RIVER	X	999		✓	2	4	7	4	3			E X A M P L E							



## DEFINITIONS

**Chartered/Guided:** You paid a person or a business to personally direct and accompany you in fishing activities. However, a person who provides only transportation services (including air) or rents out vessels or skiffs without remaining to direct your fishing activities is not a guide or charter operator for the purposes of this study.

**Household:** A household is defined as all people sharing a principal place of residence. This excludes people renting (subletting) within a home, or relatives that live in separate homes. A person paying rent for your basement apartment is not part of your household, nor is your visiting son or daughter. Record only harvest for household members.

**Personal use:** Personal use fisheries are designated by the Alaska Board of Fisheries for specific areas and gear types, and are allowed only in these legally defined areas. These fisheries require an **Alaska resident** sport fishing license or Alaska Department of Fish and Game Permanent Identification card for participation, and are distinguished by the requirement that the harvest must be for personal use only. These fisheries are NOT open to non-Alaska residents.

**Subsistence Fisheries:** Subsistence fisheries are legally defined rural fisheries for community residents and their household only, and are based on customary and traditional use of the resource. Do not report subsistence harvest in this survey, as the Division of Sport Fish does not manage these fisheries.

*Feel free to call us at (907) 267-2280, or e-mail [dfg.dsf.publications@alaska.gov](mailto:dfg.dsf.publications@alaska.gov) if we can assist you.*

*Please visit our website, which provides current and historic information gathered from this survey. Our web address is: <http://www.sf.adfg.state.ak.us/statewide/participationandharvest/index.cfm>*

The Alaska Department of Fish and Game administers all programs and activities free from discrimination based on race, color, national origin, age, sex, religion, marital status, pregnancy, parenthood, or disability. The department administers all programs and activities in compliance with Title VI of the Civil Rights Act of 1964, Section 504 of the Rehabilitation Act of 1973, Title II of the Americans with Disabilities Act of 1990, the Age Discrimination Act of 1975, and Title IX of the Education Amendments of 1972. If you believe you have been discriminated against in any program, activity, or facility, or if you desire further information please write to ADF&G, ADA Coordinator, P.O. Box 115526, Juneau, AK 99811-5526; U.S. Fish and Wildlife Service, 4401 N. Fairfax Drive, MS-2042, Arlington, VA 22203 or O.E.O., U.S. Department of the Interior, 1849 C Street Washington DC 20240. The department's ADA Coordinator can be reached via phone at the following numbers: (VOICE) 907-465-6077, (Statewide Telecommunications Device for the Deaf) 1-800-478-3648, (Juneau TDD) 907-465-3646, or (FAX) 907-465-6078. For alternate formats and questions on this publication, please contact ADF&G, Division of Sport Fish RTS, 333 Raspberry Road, Anchorage AK 99518 (907)-267-2280.



# SALTWATER SPORTFISHING

Go to Page 10 For Cook Inlet and Kachemak Bay Saltwater Fishing

Go to Page 12 for Shellfish

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

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

Sum of Each Household Angler's Days Fished. Count any part of a day as one whole day.

If multiple household anglers fish the same day, include that day in each angler's sum.

Example: In the example below, 2 household anglers fished the same day. One angler returned a second day, and fished again at the same site. Sum of Each Household Angler's Days Fished would equal 3.

DO NOT INCLUDE FISH HARVESTED UNDER SUBSISTENCE REGULATIONS

Saltwater Fishing Sites			See Mapsite Booklet		Caught from		No. of Household Anglers	No. of Household Trips	Sum of Each Household Angler's Days Fished	King Salmon Large*	King Salmon Small*	Silver (Coho) Salmon	Red (Sockeye) Salmon	Pink Salmon	Chum Salmon	Row No.	Record additional saltwater fish on Page 7
Site Name	Area Code Letter	Site Number	BOAT	SHORE	C A U G H T	K E E P T				C A U G H T	K E E P T	C A U G H T	K E E P T	C A U G H T	K E E P T		

## SALTWATER NON CHARTER — YOU DID NOT PAY to be personally directed during your fishing trip

Example: ABC Inlet	X	999	✓		2	2	3				4	2					Example →
																	1
																	2
																	3 →
																	4
																	5 →
																	6 →
																	7
																	8
																	9
																	10
																	11

## SALTWATER CHARTER — YOU PAID to be personally directed during your fishing trip

																	12
																	13 →
																	14
																	15
																	16 →
																	17 →
																	18
																	19

\*Saltwater King Salmon Size Categories:

In Area Code Letters A-H "Large" are king salmon 28 inches and over, "Small" are king salmon less than 28 inches

In Area Code Letters I-Z, "Large" are king salmon 20 inches and over, "Small" are king salmon less than 20 inches

SALTWATER SPORTFISHING

CONTINUED FROM PAGE 6

Row No.	Halibut		Rockfish		Lingcod		Sablefish (Black Cod)		Pacific Cod		Steelhead Trout		Dolly Varden/ Arctic Char		Cutthroat Trout		Smelt		Shark		Other Fish (Specify)		
	C	A	C	A	C	A	C	A	C	A	C	A	C	A	C	A	C	A	C	A	Other Fish Name	C	A
	U	G	U	G	U	G	U	G	U	G	U	G	U	G	U	G	U	G	U	G		U	G
	H	T	H	T	H	T	H	T	H	T	H	T	H	T	H	T	H	T	H	T		H	T
SALTWATER NON CHARTER — YOU DID NOT PAY to be personally directed during your fishing trip																							
Example (Continued)		2	2	2	1	2	1								Example					Example: Kelp Greenling	2	1	
1																							
2																							
3																							
4																							
5																							
6																							
7																							
8																							
9																							
10																							
11																							
SALTWATER CHARTER — YOU PAID to be personally directed during your fishing trip																							
12																							
13																							
14																							
15																							
16																							
17																							
18																							
19																							

## FRESHWATER SPORTFISHING

Go to Page 11 For Kenai, Kasilof, and Russian River Freshwater Fishing

Go to Page 12 for Personal Use Salmon Dipnetting

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

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

Sum of Each Household Angler's Days Fished. Count any part of a day as one whole day.

If multiple household anglers fish the same day, include that day in each angler's sum.

Example: In the example below, 2 household anglers fished the same day. One angler returned a second day, and fished again at the same site. Sum of Each Household Angler's Days Fished would equal 3.

DO NOT INCLUDE FISH HARVESTED UNDER SUBSISTENCE REGULATIONS.

Freshwater Fishing Sites			See Mapsite Booklet		Caught from		No. of Household Anglers	No. of Household Trips	Sum of Each Household Angler's Days Fished	King Salmon Large'		King Salmon Small'		Land-locked Kings, Silvers		Silver (Coho) Salmon		Red (Sockeye) Salmon		Pink Salmon		Chum Salmon		Row No.	Record additional freshwater fish on Page 9
Site Name			Area Code Letter	Site Number	BOAT	SHORE				C A U G H T	K E E P T	C A U G H T	K E E P T	C A U G H T	K E E P T	C A U G H T	K E E P T	C A U G H T	K E E P T	C A U G H T	K E E P T	C A U G H T	K E E P T		

Record additional freshwater fish on Page 9

### FRESHWATER NON GUIDED — YOU DID NOT PAY to be personally directed during your fishing trip

Example: ABC Lake	X	999	✓		2	2	3				4	2					Example →
																	1
																	2
																	3 →
																	4
																	5
																	6 →
																	7
																	8
																	9
																	10
																	11

### FRESHWATER GUIDED — YOU PAID to be personally directed during your fishing trip

																	12
																	13 →
																	14
																	15
																	16 →
																	17
																	18
																	19

\*Freshwater King Salmon Size Categories:

In Area Code Letters A-G, "Large" are king salmon 28 inches and over, "Small" are king salmon less than 28 inches.

In Area Code Letters H-Z, "Large" are king salmon 20 inches and over, "Small" are king salmon less than 20 inches.

# FRESHWATER SPORTFISHING

CONTINUED FROM PAGE 8

Row No.	Dolly Varden/ Arctic Char under 20"		Dolly Varden/ Arctic Char 20" and over		Rainbow Trout		Steelhead Trout		Cutthroat Trout		Lake Trout		Brook Trout		Arctic Grayling under 12"		Arctic Grayling 12" and over		Northern Pike under 30"		Northern Pike 30" and over		Whitefish		Sheefish		Burbot		Smelt		Other Fish (Specify)				
	C	A	C	A	C	A	C	A	C	A	C	A	C	A	C	A	C	A	C	A	C	A	C	A	C	A	C	A	C	A	Other Fish Name		C	A	K
	U	G	H	T	U	G	H	T	U	G	H	T	U	G	H	T	U	G	H	T	U	G	H	T	U	G	H	T	U	G	H	T			

## FRESHWATER NON GUIDED — YOU DID NOT PAY to be personally directed during your fishing trip

Example (Continued)										2	2	4	2	1	0									Example														Example: Blackfish										2																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
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## FRESHWATER GUIDED — YOU PAID to be personally directed during your fishing trip

12																																	
13																																	
14																																	
15																																	
16																																	
17																																	
18																																	
19																																	

# SALTWATER SPORTFISHING

See Mapsite Booklet Page 15

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

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

Sum of Each Household Angler's Days Fished. Count any part of a day as one whole day. If 2 or more anglers fish the same day, include that day in each angler's sum. Example: If 2 household anglers fished the same day, Sum of Each Household Angler's Days Fished = 2

Sum of Each Household Angler's Days Fished = 2

DO NOT INCLUDE FISH HARVESTED UNDER SUBSISTENCE REGULATIONS.

DO NOT INCLUDE FISH HARVESTED UNDER SUBSISTENCE REGULATIONS.																				
NORTHERN and CENTRAL COOK INLET SALTWATER		No. of House- hold Anglers	No. of House- hold Trips	Sum of Each House- hold Angler's Days Fished	King Salmon through June 24	King Salmon after June 24	Silver (Coho) Salmon	Red (Sockeye) Salmon	Pink Salmon	Chum Salmon	Dolly Varden/ Arctic Char	Steel-head Trout	Smelt	Halibut	Shark	Rock-fish	Lingcod	Pacific Cod	Other (specify)	
					C A U G H T	K E E P T	C A U G H T	K E E P T	C A U G H T	K E E P T	C A U G H T	K E E P T	C A U G H T	K E E P T	C A U G H T	K E E P T	C A U G H T	K E E P T	C A U G H T	K E E P T
NON CHARTER BOAT SALTWATER																				
P1	980 Cook Inlet area north of Bluff Point (including saltwaters by Anchor River, Whiskey Gulch, Deep Creek and Ninilchik River; and Westside Cook Inlet north of Chinitna Point)																			
CHARTER BOAT SALTWATER																				
P6	980 Cook Inlet area north of Bluff Point (including saltwaters by Anchor River, Whiskey Gulch, Deep Creek and Ninilchik River; and Westside Cook Inlet north of Chinitna Point)																			
FISHING FROM SHORE SALTWATER																				
P1	981 Shoreline saltwater fishing north of Bluff Point																			
LOWER COOK INLET and KACHEMAK BAY SALTWATER		No. of House- hold Anglers	No. of House- hold Trips	Sum of Each House- hold Angler's Days Fished	King Salmon Summer Fishery*	King Salmon Winter Fishery**	Silver Salmon	Red Salmon	Pink Salmon	Chum Salmon	Dolly Varden/ Arctic Char	Steel-head Trout	Smelt	Halibut	Shark	Rock-fish	Lingcod	Pacific Cod	Other (specify)	
					C A U G H T	K E E P T	C A U G H T	K E E P T	C A U G H T	K E E P T	C A U G H T	K E E P T	C A U G H T	K E E P T	C A U G H T	K E E P T	C A U G H T	K E E P T	C A U G H T	K E E P T
NON CHARTER BOAT SALTWATER																				
P1	796 Kachemak Bay (including Bluff Point area to Seldovia)																			
P1	952 Lower Cook Inlet sites west of Gore Point and Kachemak Bay (not including Kachemak Bay)																			
CHARTER BOAT SALTWATER																				
P6	796 Kachemak Bay (including Bluff Point area to Seldovia)																			
P6	952 Lower Cook Inlet sites west of Gore Point and Kachemak Bay (not including Kachemak Bay)																			
FISHING FROM SHORE SALTWATER																				
P1	823 Homer Spit Shoreline																			
P1	991 Other Shoreline saltwater fishing sites																			

\* Summer king salmon fishery occurs April 1 through September 30.

\*\* Winter king salmon fishery occurs January 1 through March 31 and October 1 through December 31.

# FRESHWATER SPORTFISHING

See Mapsite Booklet Pages 16-17

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

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

Sum of Each Household Angler's Days Fished. Count any part of a day as one whole day. If 2 or more anglers fish the same day, include that day in each angler's sum. Example: If 2 household anglers fished the same day,

Sum of Each Household Angler's Days Fished = 2.

DO NOT INCLUDE FISH HARVESTED UNDER SUBSISTENCE REGULATIONS.

KENAI, KASILOF, AND RUSSIAN RIVER NONGUIDED SPORTFISHING			No. of Household Anglers	No. of Household Trips	Sum of Each Household Angler's Days Fished	King Salmon through June 30	King Salmon after June 30	Silver Salmon through August 31	Silver Salmon after August 31	Red Salmon through July 15	Red Salmon after July 15	Pink Salmon	Chum Salmon	Dolly Varden/ Arctic Char	Rainbow Trout	Kasilof R. Steel-head Trout	Northern Pike	Smelt	Other (Specify)
						CAUGHT	KEPT	CAUGHT	KEPT	CAUGHT	KEPT	CAUGHT	KEPT	CAUGHT	KEPT	CAUGHT	KEPT	CAUGHT	KEPT
<b>NON-GUIDED</b>																			
P4	1	Kenai River - Cook Inlet to Soldotna Bridge																	
P4	2	Kenai River - Soldotna Bridge to Moose River																	
P4	3	Kenai River - Moose River to Skilak Outlet																	
P4	4	Kenai River - Skilak Inlet to Kenai Lake																	
P4	500	Kasilof River Bank Fishing																	
P4	600	Kasilof River Boat Fishing																	
P0	9	Russian River*																	
KENAI, KASILOF, AND RUSSIAN RIVER GUIDED SPORTFISHING			No. of Household Anglers	No. of Household Trips	Sum of Each Household Angler's Days Fished	King Salmon through June 30	King Salmon after June 30	Silver Salmon through August 31	Silver Salmon after August 31	Red Salmon through July 15	Red Salmon after July 15	Pink Salmon	Chum Salmon	Dolly Varden/ Arctic Char	Rainbow Trout	Kasilof R. Steel-head Trout	Northern Pike	Smelt	Other (Specify)
						CAUGHT	KEPT	CAUGHT	KEPT	CAUGHT	KEPT	CAUGHT	KEPT	CAUGHT	KEPT	CAUGHT	KEPT	CAUGHT	KEPT
<b>GUIDED</b>																			
P5	1	Kenai River - Cook Inlet to Soldotna Bridge																	
P5	2	Kenai River - Soldotna Bridge to Moose River																	
P5	3	Kenai River - Moose River to Skilak Outlet																	
P5	4	Kenai River - Skilak Inlet to Kenai Lake																	
P5	500	Kasilof River Bank Fishing																	
P5	600	Kasilof River Boat Fishing																	
P0	9	Russian River*																	

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

**SHELLFISH — CRABS, CLAMS, AND SHRIMP**

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

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

Sum of Each Household Angler's Days Fished. Count any part of a day as one whole day. If 2 or more anglers fish the same day, include that day in each angler's sum.

Example: If 2 household anglers fished the same day,

Sum of Each Household Angler's Days Fished = 2.

DO NOT INCLUDE FISH HARVESTED UNDER SUBSISTENCE REGULATIONS

Fishing Sites		See Mapsite Booklet		No. of Household Anglers	No. of Household Trips	Sum of Each Household Angler's Days Fished	Razor Clams (numbers)	Hardshell Clams (gallons)	Shrimp (gallons)	King Crab		Dungeness Crab		Tanner Crab		Other Shellfish (Specify)		
Site Name		Area Code Letter	Site Number				KEPT	KEPT	KEPT	CAUGHT	KEPT	CAUGHT	KEPT	CAUGHT	KEPT	Other Shellfish (Specify)		CAUGHT
Example: ABC Beach		X	999	2	2	2	20	2	2	E x	a m	p l	e					
							NUMBERS	GALLONS	GALLONS									

**PERSONAL USE SALMON DIPNETTING**

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

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

Sum of Each Household Angler's Days Fished. Count any part of a day as one whole day. If 2 or more anglers fish the same day, include that day in each angler's sum.

Example: If 2 household anglers fished the same day,

Sum of Each Household Angler's Days Fished = 2.

DO NOT INCLUDE FISH HARVESTED UNDER SUBSISTENCE REGULATIONS

Fishing Sites	See Mapsite Booklet		No. of Household Anglers	No. of Household Trips	Sum of Each Household Angler's Days Fished	King Salmon	Silver (Coho) Salmon	Red (Sockeye) Salmon	Pink Salmon	Chum Salmon	Other (Specify)
Site Name	Area Code Letter	Site Number				KEPT	KEPT	KEPT	KEPT	KEPT	KEPT
Example: ABC River	X	999	2	2	2		1	15	E x	a m p l e	

# Department of Fish and Game

## Statewide Harvest Survey Pre-Test

Focus Group Research Report by



August 14, 2009

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## BACKGROUND & METHODS

Craciun Research Group Inc. (Craciun Research) received a Request for Quote #RFQ IHP09-129 to conduct survey pre-test focus group research for the State of Alaska Department of Fish & Game (DFG) as part of its annual Statewide Harvest Survey (SHS) project. The Division of Sport Fish is in the process of developing an alternative self-administered mail survey instrument for its annual SHS program. A project team within the Division has been working on design of the new survey instrument which combines elements from the SHS standard survey instrument and alternative survey booklet format for future surveys while maintaining data elements that allow for trend analysis over multi-year periods. Continuity of data comparability is critical to the continued success of the DFG project.

Craciun Research won this contract in a competitive bid. This Executive Summary offers a topline analysis and overview of the findings from the two focus group sessions held in Anchorage on July 23, 2009.

### Research Design

The qualitative research design included a total of two focus groups made up of men and women 2009 Anglers who are Alaskan Residents and can talk about their experience fishing in specific locations. Group 1 for less than 10 days/trips; and Group 2 was avid Anglers who had gone out frequently and reported fishing 10+ days/trips. We attempted a mix of gender and ages in our groups. We had a few people attending who spoke about other household members fishing experience, but no one in the groups' just dipnetted or clammed or did not take any fish home.

Group 1: Alaskan Anglers, mixed gender, and less than 10 days fishing

Group 2: Resident Avid Angler, mixed gender, and 10 + days fishing

Jean Craciun, Research Director, collaborated with the client's representatives on development of the screener and the focus group discussion guide to ensure a successful project.

Professional CRG interviewers recruited the participants for the two groups; the focus group sessions were held July 23, at the Craciun Research Focus Group facility in downtown Anchorage.

Ms. Craciun moderated these focus groups; she holds a Master's degree in Sociology from Cleveland State University and has completed course work on a doctoral degree in Human Resources Education from Boston University. She currently serves on the national board for Qualitative Research Consultants Association (QRCA).

Katia Hetter assisted Jean Craciun and served as the Assistant Moderator for this qualitative study. She is a Harvard graduate with communication and journalism degrees. She has communication, marketing, and qualitative research expertise.

### **Focus Group Research Background**

Focus group research, by design, provides quality controls on data collection in that participants tend to provide checks and balances on each other, which weed out false or extreme views. The group dynamics typically contribute to focusing on the most important topics and issues being discussed. Trained qualitative analysts can assess the extent to which there is a relatively consistent, shared view of the discussion topics among the participants<sup>1</sup>.

The focus group interview is an information gathering process that seeks to discover the perceptions, feelings, and experiences of the selected participants about a particular topic. Focus groups help to determine the ways that participants structure their world around the particular topic. Focus group participants respond to the questions in their own words and trained observers can learn much from the group interview. The unit of analysis for this type of research is “the group” and not the individual. From the focus group interview we learn how people view the particular topic or experience, hear their terminology and capture the complexities of the individual experiences in a group interview environment<sup>2</sup>.

A focus group study is a carefully planned series of discussions designed to obtain perceptions on a defined area of interest in a permissive, non-threatening environment. A trained professional moderator conducts each group with six to eight people. The discussions are relaxed, and often participants enjoy sharing their ideas and perceptions. Ideally, you don’t do just one focus group—the group discussion is conducted several times with carefully selected participants so the researcher can identify trends and patterns.<sup>3</sup>

### **Notes to Readers**

The participants’ verbatim comments are indented rather than set off in quotation marks. Brackets set off the analyst’s explanations of some of the participants’ comments.

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<sup>1</sup> Patton, Michael Quinn, *How to Use Qualitative Methods in Evaluation*, Sage Publications, November 1987.

<sup>2</sup> Gredler, Margaret E., *Program Evaluation*, Prentice Hall, September 1995.

<sup>3</sup> Krueger, Richard A., Casey, Mary Anne, *Focus Groups 3<sup>rd</sup> Edition - A Practical Guide for Applied Research*, Sage Publication, Inc. 2000.

## RESEARCH FINDINGS

### PARTICIPANT PROFILE

Craciun Research Group held two focus groups of Alaska residents who have current sports fishing licenses issued by the Alaska Department of Fish and Game. The two focus groups, occasional anglers and frequent anglers, are mostly long-time Alaska residents who have lived in Anchorage anywhere from 20 to 50 years. A few have lived in Anchorage between 5 and 10 years.

Most of these Anchorage focus group participants described taking multiple-day fishing trips five or six times a year, either while camping or staying at a family cabin. The infrequent fishers really wished they could get out more or had in the past. The avid anglers mentioned taking numerous (up to 60 trips for some) day trips per year, to many locations statewide and even ice fishing and fishing with a bow and arrow in a canoe. Several, including a grandmother who used to run a fly-fishing lodge with her husband, spoke fondly of fishing with their children and grandchildren.

### GENERAL IMPRESSIONS

Only a few anglers from each focus group mentioned why Fish and Game would collect data about anglers' fishing experiences:

This affects what areas get stocked and don't get stocked. (Occasional angler)

Our regulations are formed from surveys like this. (Frequent angler)

Occasional anglers were more likely than avid anglers to say they'd toss out the survey after a few frustrated minutes struggling through the instructions, general information or sports fishing pages. Most say they think Fish and Game would punish them if they didn't fill out the survey or fine them if they admit on the survey to fishing more than their legal limit (one avid angler thought the same thing). The occasional anglers were split about whether or not they'd feel safer if an independent third party conducted the survey.

Most avid anglers worried about providing accurate data, and a few admitted they'd toss the survey if they felt they couldn't correctly recall information about their many fishing trips. They sounded upset at not being able to remember, and they wanted Fish and Game to make it easier for them to do the job. Different formats were discussed with hunting surveys being the most frequent mentioned.

### Impressions of the Letter

When asked, a few members of each focus group admitted that they wouldn't read the "Dear Angler" letter if they opened the Fish and Game survey package at home. "I'm not a reader. I see it's a survey so I head to the survey," says one frequent angler.

Almost all of the occasional and frequent anglers who read the letter found it to be confusing and filled with jargon. Most of the occasional anglers and a couple of frequent anglers found the letter somewhat threatening and heavy-handed. The frequent anglers had these various complaints:

Stuff from Alaska Fish and Game comes with preconceived notions that it is going to be filled with too much jargon. It's going to be overwhelming. So even if it's not, it comes with that perception.

Typical Alaska regs. Too much writing and it's redundant and I catch myself reading the same sentence over and over again because it isn't written well. It's very complicated and hard to read.

I can't think of one man in the world who's going to finish that letter.

Am I required to fill it out?

'We do mail reminders and returning that information will ensure that we do not send you additional surveys' (quoting from the letter)--or a reprimand? Or you can't buy a license next year? Too demanding!

Almost all of occasional anglers found the letter to be incredibly threatening and intimidating. Here are their complaints about it?

Anything you say can be used against you.

You automatically get bells and whistles when they say, "If you don't return this we're going to follow up on it." You know they're tracking it.

If you said you went out five times and you know you're only allowed two halibut per trip but you said you cut 20 halibut, there's a disconnect and they might go ahead and come back at you.

The occasional anglers wanted reassurance their data wouldn't be used to punish them. They suggested the letter include reminders that the survey data would be used strictly for informational purposes. One suggested that the letter say, "Do the best you can and nothing on this survey can or will be used against you."

Some of the frequent anglers wanted to know their opinion counted, and they asked to know why their data was needed and for an easy way to learn more about the survey. Unlike the occasional anglers, they didn't want to be anonymous to Fish and Game. They wanted to feel needed.

Most people figure their opinion isn't going to count so why should they take the time to fill it out.

[It should say] your input really helps us ... your opinion is important to us.

You should be able to call the person who signed the letter. People don't want to feel anonymous. They want to feel important when they fill it out.

### **Fish Pictures Handout a Big Plus**

Most members of both focus groups liked the fish identification sheet included with the survey and gave it rave reviews. They looked at it with delight and believed it to be a real bonus. The only addition to the existing format was from an occasional angler who wanted different types of clams included in the sheet.

I think this is a good reference. I've been here since '72, had a license since '76 at least. There are fish on here I've never caught [suggesting he'd be interested in fishing for them]. This is a lot handier than running down to Fish and Game and looking at the wall. (Occasional angler)

I'm going to share it with my kids. Kids will love this. I like it. (Frequent angler)

The fish pictures could be a gift or incentive for participation ... with extra thick stock ... probably costs too much to laminate it. That would be cool. (Frequent angler)

### **Impressions of the MapSite Booklet**

Some avid anglers mentioned they might keep the map to find good new sites to fish. However, a few mentioned they would have trouble finding all of the small lakes and streams they've fished in their travels on any map. And there were hints that some wouldn't want to mention their favorite hidden fishing spots for Fish and Game to "discover."

We fished almost every stream along the Denali highway. I couldn't find [them all] exactly.

It's very hard to figure out which small streams or lakes [I've fished on this map]. I have couple lakes that I wasn't probably putting down cause I knew they weren't going to be on the map.

### **IMPRESSIONS OF THE 2009 SPORT FISH SURVEY**

Both focus groups were given time to fill out the survey at each person's own pace. Most of the occasional anglers took almost 15 minutes to finish the parts of the survey they chose to do (by definition of being occasional anglers, they didn't have a lot of Household Angler's Days Fished to report).

The frequent anglers had more fishing experiences to report, so they were still working on the survey after 14 minutes and still had a lot of work to do.

#### **A. Instructions (page 2)**

Nearly all of the occasional anglers read the instructions on how to fill out the survey on page 2, while only two frequent anglers initially read page 2 (two more skipped the page but came back to read it when they needed to). No one from either focus group seemed confused about subsistence fishing but they had a lot to say about the complexity of the instructions. The instructions were a “big turn off” to both types of anglers, several of whom asked for something quicker and easier to fill out. A few members of both groups mentioned that the hunting and moose surveys were much easier to fill out.

#### **B. Instructions (pages 1-2): Household**

Although “household” is defined in the instructions on page 2, there was still confusion among the occasional anglers about who to include. They also expressed some exasperation that they should be responsible for collecting data from other people who might not want to cooperate.

One young man said he has a sister who isn't living with him right now but she may move back into his home this year. Does he include her fishing trips? A woman's son turns 16 this year. Does she count him as part of the household this year? One young father has been counting his 6-year-old daughter in previous surveys and now thinks maybe he wasn't supposed to do so.

Trying to get a household number is unrealistic.

They're going to get false information when they go with this household thing.

The avid anglers said the “household” definition is self-explanatory but they still wondered about possible errors. One frequent angler found an inconsistency on the front cover of the survey, which asks about “*your* Alaskan fishing experiences” in the first paragraph but asks “where *you or your household* members fished” in the third paragraph (emphasis added).

Two mothers, one from each group, agreed that getting teenagers who fish to help fill out the survey would be impossible. The frequent angler said she'd never bother to ask her teenage son to fill out this survey because he'd never do it--even though it makes her results incomplete. The occasional angler mom said that parents aren't going to get data “if you have kids who take off [fishing] and don't tell you where they're going.”

### **C. Instructions (page 2): Proxies and Beneficiaries**

The inclusion of proxies and beneficiaries made the surveys more complicated for some frequent anglers. One frequent angler said it was too much for her to do:

I would automatically not even fill this [survey] out based on something in the instructions...My parents fish all summer. They inundate us with all the fish they get that they don't want. They're gone three days a week fishing all over the place and I have no idea where. If I have to record where they go, [I'm done].

Eliminate the proxy/beneficiary thing.....why do you care?

### **D. General questions (page 3)**

Fish and Game previously reported that survey respondents have filled out the general information page incorrectly. So it should come as no surprise that members of both focus groups had problems answering the general questions about which members of their household sported fished with or without a license in 2009.

An occasional angler who has four people fishing in her home, one of whom is over 65 and other of whom is a veteran, wasn't sure the total number of people in her household who sport fished should be -- four or six people? A frequent angler wasn't much more certain of his answers:

I had to reread each question to make sure I knew what they were asking. Then to step back--which categories do my household members fall into and try to think about their fishing habits. Who purchased a license? Who didn't purchase a license? Who fished with it? Who didn't fish with it?

### **E. Sports fishing section (pages 6-12): the math problem**

Frequent anglers had trouble keeping track of numbers from past trips included multiple fishing days, family members who didn't all fish together every day and the number of fish caught and (perhaps) kept every fishing day by different family members. Then they got frustrated about having to calculate the "Sum of Each Household Angler's Days Fished" and wondered why Fish and Game couldn't do the math for them.

In the fall ... I know the data I'm going to put down is not going to be reliable, my memory sucks and I'm going to stop. If I send it in, I'm going to end up making up the numbers.

Did everyone fish on the trip? Did they fish every day of the trip?

It feels like they're trying to collect data on individuals but they [make us] group it as a household and that doesn't work.



A few focus group members got confused about remembering to distinguish between fishing on non-chartered versus chartered trips, which Fish and Game already knows can cause errors in reporting on the effort/harvest page. Some anglers previously surveyed list the entire charter boat or group, leading to more anglers being listed on the effort/harvest page than indicated on the general information page. One occasional angler suggested eliminating that from this survey and requiring the skippers of chartered trips to report catches from those trips.

The perception that Fish and Game will punish those who fish over the legal limits continues as focus group members fill out the surveys at home, they say. One avid angler says he checks his copy of the fishing regulations so he doesn't report catching more than what's legal. An occasional angler admits that her husband does the same thing when he fills out the survey.

#### **F. Sports fishing section: other comments**

Most of the occasional and frequent anglers were confused by some or several parts of the survey. They had trouble recollecting the number of trips they'd made during the season, who had fished with them, what they had caught, where exactly they had caught the fish, and if they'd caught the legal limit permitted.

Occasional anglers had a little less trouble than the frequent anglers remembering the trips they'd made so far this year, probably because they had fewer trips to remember. The avid anglers were more concerned about providing accurate data to Fish and Game:

Here are some of the complaints the occasional anglers had when they filled out the sports fishing sections:

A confusing part to me is pages 16 and 17 maps ... it should stipulate on page 17 that this is pole fishing [and doesn't include dipping].

I got steamers and butters this year but they just list razor clams [in the shellfish section on page 12].

The frequent anglers had complaints, too:

It's confusing to me--ice fishing--whether it's considered shore or boat? Can't check it off [as one or the other].

Sometimes people on one trip are split [between boat and shore fishing].

I have to admit I didn't read the top part [directions at the tops of pages 6, 8, 10-12]. [Many agreed with nods.]

Here are some of the mistakes the occasional anglers confessed to making as they filled out the sports fishing sections:

I put dipping in the wrong spot. It's under sports fishing right now.

I made mistakes filling in for some personal use in ... a saltwater portion. I always think I'm in saltwater.

Filled out the front section and then had to fill out back again with same information....I wouldn't redo it at home probably just stop there.

The frequent anglers also made mistakes:

I forgot I'm a beneficiary.

## **RECOMMENDATIONS**

### **New Cover Letter**

Rewrite cover letter with standard research appeals for mail-out surveys.

### **Fish Picture as Incentive**

Most of the occasional and avid anglers said there aren't any clear incentives to fill out the survey, and plenty of reasons not to. Some said that a free 2010 fishing license or a weekend stay at a fishing lodge would do the trick, but others would be more likely to fill it out if Fish and Game asked them nicely and told them how their hard work was helping protect the fishing areas they love. Offer the fish picture as an incentive and position it as such in the cover letter.

### **Diaries for Accuracy**

Consider various options to secure more accuracy by implementing a few diaries in selected areas to avid fishers. Many frequent anglers said they've kept track of their fishing and hunting trips using tally sheets (for their own purposes). Several suggested that Fish and Game ask for volunteer license holders to agree to fill out fishing surveys at the start of the season, so they could keep accurate data throughout the season. "I could do it each day I'm finished [fishing]," an angler offered to agreement from others.

### **Implement a short and long version survey Online**

Both occasional and frequent anglers said there's no need to have such a complicated survey. Most of the frequent anglers agreed that having the survey available online could make it even easier for some people to fill out the survey as they fish during the season. It was also suggested to shorten it for those who don't fish a lot. Different household members could have their own accounts.

Just ask: Where did you fish? How many did you catch? How many did you keep? Then send it in. You [Fish and Game] figure out what the numbers are.

Have something online: You have your user ID, go to your site, here's where I went, here's what I did and then it goes back to [Fish and Game].

People use their computers every night. Check your email [and go online to Fish and Game to report] here's where I fished, here's what I caught.

Give each household member a survey to fill out and make Fish and Game do the math to calculate a household's fishing totals.

## A P P E N D I X

### Anglers Discussion Guide Two Sessions July 23, 2009

**[TARGET SEGMENT: 2009 Anglers who are Alaskan Residents and can talk about their experience fishing in specific locations and for less than 10 days/trips (5:30); or an avid Angler who has gone out frequently and actually can report fishing 10+ days/trips. We have attempted a mix of gender and ages in our groups tonight. We may have people attending who are speaking about another household members fishing experience or may have just dipnet or clammed or did not take any fish home. ]**

**Groups to be held at the Craciun Focus Group Facility, 921 West 6th, Downtown next door to Platinum Jaxx. Observers will be in a separate room; please arrive a half hour before groups start so as not to meet participants in hallways and to have ample time to read the handout on being an observer to our groups.**

**Thanks Jean Craciun**

#### **I. INTRODUCTION:**

Today we are here to gain a better understanding from people who enjoy sportfishing in Alaska. We have a specific task for you to help us with tonight, we are very curious about your reaction to a mail out survey that is sent to random anglers statewide. We want to make sure it is working for the people intended to fill it out. We would appreciate learning from your experiences– individually and collectively.

#### **II. WARM-UP: Opening Packet and Reading Letter**

I am going to hand each one of you a packet now and I would like you to follow my instructions for a series of tasks. Please stay with me, don't jump ahead...this isn't a reading test so we will just take our time and keep the group together. Again, the process goes like this. I will ask you to do something you will go through the steps as I explain them and then we will talk about your experience. Easy enough!

1. Now before we get started I would just like to know how long have you lived in Anchorage; and how often do you get to go fishing? (Defines group homogeneity)
2. This first task is a pretty easy one but we are just getting warmed up. Would everyone please open the packet, take a look at everything .....and read the letter.
3. Generally speaking, what is in this packet? [PROBE: Who is this survey studying?]

[WATCH FOR: Did they get that there is a questionnaire and map book and that they are related? Are they necessary items? Do they understand each of them? Do they get that it is a household survey or not? What is missing from the letter, if anything?]

### III. IN-DEPTH: Complete the Questionnaire

OK good job now we are going to actually spend some time filling out the survey. (Jean will monitor time it takes for each person to complete it.)

When you are finished, please just put your pencil down and look up at me. No hurry here, please take your time and make it as accurate as possible. Again, we will discuss your experience after everyone is done. If you have a question along the way please make a note on the pad provided. Let's get started.

[WATCH FOR: Do participants read the instructions on the inside cover? Do they flip back and forth using the map book to assist with the questionnaire? Do they have puzzled looks on their faces expressing confusion or frustration? Does it look easy for them to do? Do you sense that they may feel it is taking too long to complete?]

1. OK let's discuss what you experienced. Who wants to start? Was it an overall good experience or not?
2. **UNAIDED:** What was confusing or unclear? Are they able to record experiences accurately on the grid and under the appropriate species column heading? Are they making the boat/shore distinction when recording the effort and harvest?
3. Did everyone record the TOTAL HOUSEHOLD days fished or just your personal days fished? Does pg.3 General questions match your harvest page information?
4. **What do you think was confusing or misled you? [PROBE: Need details here for clarity of copy and use of terminology, e.g. proxy, facing, under 16 and totals. Note harvest pages..... days fished vs. number of anglers, example confusing?]**

### V. WRAP - UP:

Overall, what do you think Alaska Department of Fish and Game should do to improve the accuracy and general experience you and other anglers might experience attempting to fill out the 2009 Sport Fish Survey?

# Department of Fish and Game

## Statewide Harvest Survey Pre-Test Personal Interviews

Report by



August 31, 2009

**Contact**

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## B A C K G R O U N D   &   M E T H O D S

Craciun Research Group, Inc. (CRG) received a Request for Quote #RFQ IHP09-129 to conduct survey pre-test focus group research for the State of Alaska Department of Fish & Game as part of its annual Statewide Harvest Survey (SHS) project.

The Division of Sport Fish is in the process of developing an alternative self-administered mail survey instrument for its annual SHS program. A project team within the Division has been working on design of the new survey instrument which combines elements from the SHS standard survey instrument and alternative survey booklet format for future surveys while maintaining data elements that allow for trend analysis over multi-year periods. Continuity of data comparability is critical to the continued success of this project.

CRG is celebrating our 20<sup>th</sup> Anniversary (1989-2009) this year conducting research in Alaska. We are a full service market research firm that conducts both quantitative research which is surveys and are generalizable to large populations and qualitative research which we typically conduct focus groups (small group including 8-10 participants) or personal interviews (one-on-one contact with the public) to ascertain select attitudes and opinions on specific issues, in this case the SHS.

DFG wanted to conduct Focus Group Research with 2009 resident anglers and personal interviews with nonresident anglers that could be accessed locally.

Representatives from the State of Alaska Department of Fish and Game (ADF&G) and Craciun Research Group, Inc. (CRG) met on several occasions to discuss aspects of this projects strategy for success. First of all, after CRG won the contract in a competitive bid, then again to confirm the overall research design and to discuss aspects of the Focus group effort with residents. Finally, on August 14, 2009 to discuss the nonresident research methodology.

The overall project included a qualitative research design with both focus groups and personal interview methodologies. The qualitative design included two focus groups of resident anglers, one group of anglers fished infrequently and the other was considered avid fishers. Focus Groups were conducted July 23, 2009.

Craciun interviewers accessed nonresident anglers for the personal interviews at targeted locations city wide. Jean Craciun, Research Director/Sociologist, conducted all the pre-tests for the personal interview instrument and Emily Jenkins worked in the field and reported the descriptive findings from the questions to nonresidents. The report of 10 personal interviews follows.



### **Research Design**

Ten in-depth, personal interviews were conducted between August 24 and August 28, 2009.

In-depth personal interviews are most suited for panels of experts who share a thread of commonality, in this case recent experiences fishing in Alaska and non residency. The details of their individual experiences may significantly differ from one another. Conducting individualized, open-ended discussions allows patterns of shared agreement to be drawn from their views and opinions.

This standardized open-ended interview consisted of a set of questions carefully worded and arranged with the intention of taking each respondent through the same sequence simulating opening the survey at home and asking each respondent the same questions with essentially the same words. Flexibility in probing is more or less limited, depending on the nature of the interview and the skills of the interviewer. This open-ended interview is used when it is important to minimize variation in the questions posed to interviewees. This reduces the possibility of bias that comes from having different interviews for different people, including the problem of obtaining more comprehensive data from certain persons while getting less systematic information from others. By controlling and standardizing the open-ended interview, the researcher obtains data that are systematic and thorough for each respondent but the process reduces flexibility and spontaneity.<sup>1</sup>

### **Summary of 8-14-09 Meeting with J. Craciun on Nonresident interviews**

- A. Agreed to try to do 10 one-on-one interviews with nonresident anglers. Jean would develop and test the process, then train other staff to go out and conduct the interviews.
- B. Agreed that the best approach might be to have interviewee briefly review and provide feedback on important survey packet elements (map booklet, fish ID page, survey booklet (pages 1-3), and then a laminated copy of the fresh and saltwater grid questions—have them write with wipe off marker their fishing information).
- C. Jean will develop and test a process by conducting a few interviews, debrief how those went with Gretchen & Bill, revise as needed, then train and have Craciun staff complete the remaining interviews.
- D. Suggested Locations for contacting nonresident anglers who were likely to have gone sport fishing: Anchorage and Seattle Alaska Airlines Board room (Jean to explore if possible—do a few interviews if can on upcoming trip); Alaska Sportsman's Warehouse (hoping to catch someone post fishing and picking up more supplies.); 10th & M Seafood's (to catch folks processing/shipping their fish).

The gender and home of these nonresidents was asked during the personal interviews. There were 7 males and 3 Females; they were from: Washington, New Mexico, Georgia, Virginia, Nevada, Canada, Colorado, and Iowa.

On average each interview took approximately 13 minutes.

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<sup>1</sup> Patton, Michael Quinn, 1990 Qualitative Evaluation and Research Methods; p 280-281; Sage Publications Inc.



## RESEARCH FINDINGS

### QUESTION 1 SURVEY BOOK

We would like to explore nonresidents perceptions of the task of filling out the survey booklet form—first starting with reactions to the initial pages (cover, instructions, and General Questions page (page 3). Suggest providing them with the full survey booklet to briefly review—asking them to focus on the first few pages of the survey but not to fill it out.

This question included 5 sub-questions. We will discuss responses to each below.

#### **Question A: What does ADF&G want you to do?**

Opinion 1: Report how people fished. Give some detail as to how many.

Opinion 2: Want to know who fished and what they fished for.

Opinion 3: Report on how much you caught.

Opinion 4: Fill out a survey on fishermen in my household and what we have caught.

Opinion 5: Fill out a survey so they can have some details...something for them.

Opinion 6: Harvest survey.

Opinion 7: Tell them if you caught fish.

Opinion 8: They want to know where you fished – A harvest report.

Opinion 9: Answer questions about fishing.

Opinion 10: Obtain a license.

#### **Question B: Would you likely do this survey if you got this in the mail from ADF&G this fall?**

Opinion 1: Yes.

Opinion 2: Yes.

Opinion 3: Yes.

Opinion 4: Yes.

Opinion 5: No.

Opinion 6: No.

Opinion 7: No.

Opinion 8: No. I wouldn't waste my time if its voluntary. If required I would do it.

Opinion 9: Yes.

Opinion 10: Yes. Sure why not?

**Question C: Whom does Fish and Game want to capture information on?**

Opinion 1: Households

Opinion 2: Individuals...want to know how I fished...says it right here on front.

Opinion 3: Households

Opinion 4: Households

Opinion 5: Individuals

Opinion 6: Individuals

Opinion 7: Households

Opinion 8: Households

Opinion 9: Households

Opinion 10: Households.

**Question D: Is it clear we are requesting all household fishing information from 2009 trips (not just where they fished, # days fished and # caught/kept) but household total. Do you think you would be able to recall this information and report it on this form?**

Opinion 1: Yes, went with a friend to Kenai area.

Opinion 2: Yes. Opinion

Opinion 3: No, I think you only want information for myself.

Opinion 4: No. Yes for myself and partially for my family if they were around me while I filled it out. What about separate trips? We don't always ALL go together.

Opinion 5: Yes. Would take some time to remember, and I'd definitely loose interest in filling it out. I'd most likely put it off until it was too late to turn it in.

Opinion 6: No. No way! For myself yes, but I don't know what the rest of my family does.

Opinion 7: Yes. But it would take a few minutes to think about it.

Opinion 8: Yes its clear, but no I couldn't do it.

Opinion 9: Yes.

Opinion 10: Yes. I could remember.

**Question E: Is there anything confusing about the survey booklet that seems confusing to you at first glance?**

Opinion 1: No but it seems instructions are duplicate.

Opinion 2: Why do you have kids fishing on the front here, it just reminds me that they were everywhere on our trip and they do not have to pay! Also, it says you then household...which is it?

Opinion 3: Page 2 is not clear.

Opinion 4: Pretty Easy to follow.

Opinion 5: Nothing is confusing.

Opinion 6: Everything! It looks time consuming. Too many questions at the first glance.

Opinion 7: No, but there aren't enough pictures in the front here.

Opinion 8: Too much writing.

Opinion 9: No.

Opinion 10: No. Pretty straightforward.

**QUESTION 2 MAP BOOKLETS**

We would like to explore how nonresidents go about identifying where their fishing trips took place for the purpose of recording in the survey booklet. Provide them the map booklet, ask them to look it over and find where they took their 2009 fishing trip(s).

This question included 3 sub questions.

**Question A: Were you able to find the locations of your 2009 fishing trips using the survey map booklet?**

Opinion 1: Yes, Kenai, Russian River...Cook Inlet with my friend...he knows everything.

Opinion 2: No I can't find Cordova anywhere....it is taking too much time to find it.

Opinion 3: Yes.

Opinion 4: Yes.

Opinion 5: No. (Had to ask Alaskan friend about locations)

Opinion 6: Yes.

Opinion 7: Yes.

Opinion 8: Yes.

Opinion 9: Yes.

Opinion 10: No. (Had to ask Alaskan friend about locations)

**Question B: How challenging or easy was it to find where you went; specifically on this map booklet?**

Opinion 1: Below Soldotna....I asked where and he pointed to it.

Opinion 2: Can't find it and if I had to keep looking well it wouldn't happen.

Opinion 3: Not very clear. (Didn't notice table of contents on 1<sup>st</sup> page)

Opinion 4: I couldn't find exact lake.

Opinion 5: No. Could not complete task. (Wasn't sure where Kenai or Fairbanks was located on the map. Had no awareness of locations.)

Opinion 6: Easy, but I have done these before.

Opinion 7: Pretty easy.

Opinion 8: Plane jane map. Easy.

Opinion 9: Way easy.

Opinion 10: I couldn't find it without my friends help, but this seems easy.

**Question C: Is there anything about the map booklet that is confusing or hard to understand?**

Opinion 1: No. I was down by Ninilehik and all over the Kenai.

Opinion 2: I am struggling with this map...just can't find Cordova anywhere. It is not where I expect it to be. HELP!

Opinion 3: Yes. Struggled to find Seward and Kenai Peninsula.

Opinion 4: No. But its time consuming. Could be more efficient.

Opinion 5: Yes. Letters on the map on the front page.

Opinion 6: Yes. An index with names would be a lot easier to find, rather than looking around on a map.

Opinion 7: Yes. A scale would be nice.

Opinion 8: Yes. Highlighting common areas like the russian river would be helpful.

Opinion 9: No.

Opinion 10: I look at maps all the time. This one seems nice.

**QUESTION 3 FISH IDENTIFICATION**

We would like to explore whether nonresidents have difficulty identifying any species of fish that they caught in Alaska. Provide them with the Fish Identification sheet and ask them to circle the species they caught on their 2009 fishing trip(s).

This question included 4 sub questions.

**Question A: Were you able to find all of the species of fish that you caught on your 2009 fishing trip(s)? List.**

Opinion 1: Yes, Pacific Halibut, Sockeye, Silvers.

Opinion 2: Yes, Silvers, Rainbow Trout, Dolly Varden.

Opinion 3: Yes. Pacific halibut, Lingcod, Black Rockfish, Copper Rockfish, Silver Salmon.

Opinion 4: Yes. Arctic Grayling, Pacific Cod, Silver Salmon, Pacific Halibut, Black, Yelloweye, Copper and Dusky Rockfish. Lingcod.

Opinion 5: Yes. Sockeye, Silver and Pink Salmon and Dolly Varden.

Opinion 6: Yes. King, Red, Pink and Silver Salmon, Pacific Halibut, and Black, Yelloweye, Copper and Dusky Rockfish.

Opinion 7: Yes. Red, Silver, and Pink Salmon, Rainbow Trout, and Northern Pike

Opinion 8: Yes. Pacific Halibut, Lingcod. Pacific Cod, King, Silver, Pink, Red, and Chum Salmon.

Opinion 9: Yes. Pacific Halibut, Silver and King Salmon.

Opinion 10: Silver Salmon and Pacific Halibut.

**Question B: Do you ever have any trouble identifying the fish you catch in Alaska? If so, can you tell us which species you find difficult to identify?**

Opinion 1: Yes, but my friend who lives here can help so no problem.

Opinion 2: No, can't find grayling....ok now I see it.

Opinion 3: Yes. A guide helped me.

Opinion 4: Yes. When fishing wasn't able to identify them. Could once handed the sheet.

Opinion 5: Yes. Dolly Varden and Steelhead fish look similar when they are small. This ID sheet would have been helpful while actually fishing.

Opinion 6: No. I've been coming to Alaska to fish for a long time, which has given me more knowledge of the fish I've caught.

Opinion 7: No.

Opinion 8: Yes. Pink whether it's a humpy or not, and Silver versus a Red.

Opinion 9: No.

Opinion 10: No. If you know what's running in the area you're fishing in, there shouldn't be any problem.

**Question C: Do you think having this color fish identification sheet would be helpful to you (or other non residents) in filling out the fishing survey? Would you like to keep it?**

Opinion 1: Yes. Yes, and I wish I had this before like when I got my license.

Opinion 2: Yes. Yes, in Arizona when you get your license they give you one of these.



Opinion 3: Yes. Yes.

Opinion 4: Yes. Yes.

Opinion 5: Yes. Yes.

Opinion 6: Yes. Yes.

Opinion 7: Yes. No.

Opinion 8: Yes. No.

Opinion 9: Yes. Yes.

Opinion 10: Yes. No.

**Question D: Is there anything about the fish identification sheet that is confusing or hard to understand?**

Opinion 1: No.

Opinion 2: No.

Opinion 3: No.

Opinion 4: No.

Opinion 5: No. Pictures are very clear and detailed. It would be nice if it was laminated.

Opinion 6: No.

Opinion 7: No.

Opinion 8: Pretty clear.

Opinion 9: No.

Opinion 10: Its straightforward.

**QUESTION 4 FRESHWATER/SALTWATER FISHING GRID; CHARTER OR GUIDED**

We would like to observe and get feedback from nonresidents on how they perceive and navigate the pages of the survey that ask for their sport fishing activity information. Provide interviewee with the laminated sheet and a dry erase marker asking them to look it over and maybe provide the information from their most recent 2009 fishing trip.

This question included 5 sub questions.

**Question A: TASK ONE: At first glance, overall what (if anything) about these pages is confusing to you?**

Opinion 1: What is “area code and letter referring to?” Where do I find that?

Opinion 2: Lots of stuff to look at here....too much....Saltwater twice?

Opinion 3: Do they want the total of fish for one trip or all combined?

Opinion 4: It’s not in color.

Opinion 5: The words aren’t in a good layout and its hard for the eyes to focus. Color would help.

Opinion 6: Too busy! Too bunched up. Its overwhelming at the first look.

Opinion 7: Nothing.

Opinion 8: Layout is good. Site code and number are hard to find. DF&G should know the numbers for each site, why must we fill it out?

Opinion 9: Nothing. Its legible.

Opinion 10: Nothing.

**Question B: TASK TWO: Now go back and actually fill it out for a few moments. Did you notice that saltwater and freshwater fishing was on separate pages?**

Opinion 1: No.

Opinion 2: No.

Opinion 3: Yes.

Opinion 4: Yes.

Opinion 5: No.

Opinion 6: Yes.

Opinion 7: Yes.

Opinion 8: Yes.

Opinion 9: Yes.

Opinion 10: Yes.

**Question C: Did you notice that freshwater had a “guided non-guided” distinction on that grid OR did you notice that saltwater had “charter and non-charter” fishing separately?**

Opinion 1: I would need to spend some time on this....confusing.

Opinion 2: Yes and our trips were Guided and Freshwater.

Opinion 3: Not for saltwater. Yes for freshwater.

Opinion 4: Yes.

Opinion 5: No.

Opinion 6: Yes.

Opinion 7: Yes.

Opinion 8: Yes.

Opinion 9: No.

Opinion 10: Yes.

**Question C2: Interviewer, did they do it correctly for their experiences?**

Opinion 1: No.

Opinion 2: No.

Opinion 3: No.

Opinion 4: No.

Opinion 5: No.

Opinion 6: Yes.

Opinion 7: Yes.

Opinion 8: Yes.

Opinion 9: No.

Opinion 10: No.

**Question D: Was anything in the instructions confusing ? Now let me ask yo about these 3 columns specifically. Is any of that confusing or misleading in any way?**

Opinion 1: Yes, number of households, anglers then number again but of trips. Trouble here.

Opinion 2: Yes, everything is confusing...I would really need to stop and think about this.

Opinion 3: Little bit. I don't understand number of fish caught. Do they want grand total or for one trip?

Opinion 4: I don't understand number of household trips. Do I include visiting guests too? Or family trips only?

Opinion 5: It isn't friendly to read. But the instructions are clear on what they are specifically asking for.

Opinion 6: Not consuming. It would be easier to fill out if I had it at the beginning of the year.

Opinion 7: No. Its self explanatory.

Opinion 8: Trips and days categories seem the same. They are asking for too much information.

Opinion 9: No. Very clear instructions.

Opinion 10: Pretty straightforward.

#### **SUGGESTIONS FOR IMPROVEMENT**

**Question E: And finally, is there any advice you could give to the ADF&G if they want this survey to be completed accurately by nonresident anglers?**

Opinion 1: I would do it because it would remind me of my trip...it was great!

Opinion 2: No, they just need to make the fishing license cost less....in Arizona you pay \$24 and you can catch more fish.

Opinion 3: Get charters to fill this out. A bribe always works.

Opinion 4: I always receive a fish regulation book in other states, without having to ask for it.

Opinion 5: Color would help ease of reading. Offer a reward like a map or guide book, and laminate the fishing guide.

Opinion 6: More Incentives! My time is valuable. Make me want to do it! Color would help.

Opinion 7: They are doing a good job.

Opinion 8: Make this survey madatory and take away license privilages to returning tourists and residents. As a reward make their next permit purchase cheaper. Money is always the best incentive. So is fear....that they may lose something.

Opinion 9: Its easy. Shouldn't be a problem for Fish and Game.

Opinion 10: Incentives on licensing or a rebate for next years license purchase.

A P P E N D I X

Department of Fish and Game

Start time\_\_\_\_\_

Stop time\_\_\_\_\_

Personal Interviews  
Project # 20203  
August 24-28, 2009  
Non-Resident Anglers

INTRODUCTION of Emily Jenkins and CRG; non-resident angler from where:

Gender MALE or FEMALE

**1. Survey Booklet.** [We would like to explore nonresidents perceptions of the task of filling out the survey booklet form—first starting with reactions to the initial pages (cover, instructions, and General Questions page (page 3). Provide them with the full survey booklet to briefly review—ask them to focus on the first 3 pages of the survey but not to fill it out....stop them if they start to turn to page 4].

A.) What does ADF&G want you to do?

\_\_\_\_\_

B.) Would you likely do this survey if you got this in the mail from ADF&G this fall?

Circle one: Yes No

\_\_\_\_\_

C.) Whom does Fish and Game want to capture information on?

Circle one: individuals' households

\_\_\_\_\_

D.) Is it clear that we are requesting all household fishing information from 2009 trips (not just where they fished, # days fished, and #caught/kept, but **household total**. Do they think they would be able to recall this information and report it on this form?

Circle one: Yes No

\_\_\_\_\_

E.) Is there anything about the survey booklet that seems confusing to you at first glance?

[WATCH FOR POSITIVE OR NEGATIVE COMMENTS OVERALL]

\_\_\_\_\_

\_\_\_\_\_

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**2. Map Booklet.** [We would like to explore how nonresidents go about identifying where their fishing trips took place for the purpose of recording in the survey booklet. Hand them the map booklet, ask them to look it over and find where they took their 2009 fishing trip(s). Observe their ease or difficulty in finding the results and list here.]

A.) Were you able to find the locations of your 2009 fishing trips using the survey map booklet?  
Circle one: Yes No

B.) How challenging or easy was it to find where you went; specifically, on this map booklet?

---

C.) Is there anything about the map booklet that is confusing or hard to understand?  
Circle one: Yes No

---

**3. Fish Identification Sheet.** [We would like to explore whether nonresidents have difficulty identifying any species of fish that they caught in Alaska. Hand them the Fish Identification sheet and ask them to circle the species they caught on their 2009 fishing trip(s) ]

A.) Were you able to find all of the species of fish that you caught on your 2009 fishing trips?  
Circle one: Yes No

List: \_\_\_\_\_

---

B.) Do you ever have any trouble identifying the fish you catch in Alaska? If so, can you tell us which species you find difficult to identify? Circle one: Yes No

---

C.) Do you think having this color fish identification sheet would be helpful to you (or other nonresidents) in filling out the fishing survey? You can keep it if you like!  
Circle one: Yes No

Wanted to keep it: Yes No

---

D.) Is there anything about the fish identification sheet that is confusing or hard to understand?  
Circle one: Yes No

---

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**4. Freshwater/Saltwater Fishing Grid.** [We would like to observe and get feedback from nonresidents on how they perceive and navigate the pages of the survey that ask for their sport fishing activity information. Hand interviewee the laminated sheet and a dry erase marker ask them to look it over and answer **A first**. Then ask them to try and fill it out by providing information from their most recent 2009 fishing trip. Observe them doing the task. Are they able to navigate the grid to provide the information asked?]

A.) **TASK ONE:** At first glance, overall what (if anything) about these pages is confusing to you?

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B.) **TASK TWO:** Now go back and actually fill it out for a few moments. **ASK** Did you notice that the saltwater and freshwater fishing was on separate pages?  
Circle one: Yes No

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C.) Did you notice that **freshwater** had a “guided non-guided” distinction on that grid OR did you notice that saltwater had “**charter and non-charter**” fishing separately?

---

---

---

Interviewer did they do it correctly for their experiences? YES NO

D.) Was anything in the instructions confusing? **NOW LET ME ask you about these 3 columns** specifically, is any of that confusing or misleading in anyway?

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6. And finally, is there any advice you could give the Department of Fish and Game if they want this survey to be completed **accurately** by non-resident anglers [OTHER COMMENTS OR ADVICE REGARDING THE SURVEY PROCESS?]

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THANK YOU!



**APPENDIX B: FINAL 2009 HYBRID SURVEY  
QUESTIONNAIRE AND COVER LETTERS FOR MAILED  
TEST**

*ALASKA DEPARTMENT OF FISH AND GAME*

# *2009 Alaska Sport Fishing Survey*



Alaska Department of Fish and Game  
Division of Sport Fish (RTS)  
333 Raspberry Road  
Anchorage AK 99518  
(907) 267-2280

We are interested in knowing about your household's Alaska sport fishing activities in 2009. Even if no one in your household fished in 2009, please answer the questions on page 3.

You need only fill out the pages for areas of Alaska where you or your household members fished. Please do not include subsistence fishing.

Use the Mapsite Booklet to assist in finding Area and Site descriptions.

## INSTRUCTIONS

**Period covered:** January 1 through December 31, 2009.

**What if your household did not sport fish in 2009?** Answer the questions on page 3 and return the survey in the postage-paid envelope so we may avoid mailing you additional 2009 surveys.

**What if your household did sport fish in 2009?**

- Answer the questions on page 3.
- Use the Mapsite booklet to identify fishing sites. Complete the pages in this booklet that cover the types of fishing done by you or your household members.
- Return the survey in the postage-paid envelope.

**Who to include:** Report your household's sport fishing only. A "household" is defined as all people sharing a principal place of residence. This excludes people renting (subletting) within a home. Do not include visitors to your home, even if they are family members.

**What to include:** Report all your household sport, shellfish and personal use fishing information. If you are the beneficiary (the one who keeps the fish) of a proxy, report that fishing activity as part of your household.

**What to exclude:** Do not report commercially caught or subsistence caught fish. A sport fishing guide should not report client information. Do not report fish caught while proxy fishing for someone outside your household. Report only your own household information.

**SPORT ANGLERS LIVING OUTSIDE OF THE UNITED STATES:** The postage permit that we have for return mail is valid only within the United States. Because the survey helps us to offer world class fishing experiences for all anglers, we ask that you return the survey by supplying your own postage.

**Still have questions?** If you have questions about this survey, please call (907) 267-2280 or contact us via e-mail at: [dfg.dsf.publications@alaska.gov](mailto:dfg.dsf.publications@alaska.gov)

## WHERE TO RECORD YOUR SPORT FISHING ACTIVITIES

SECTIONS	Pages
KENAI, KASILOF, and RUSSIAN RIVER FRESHWATER FISHING	6
COOK INLET and KACHEMAK BAY SALTWATER FISHING	7
SALTWATER SPORT FISHING, other than Cook Inlet and Kachemak Bay	8–9
FRESHWATER SPORT FISHING, other than Kenai, Kasilof, and Russian rivers	10–11
SHELLFISH	12
PERSONAL USE SALMON DIPNETTING	12

## PLEASE COMPLETE THIS SURVEY BOOKLET, AND RETURN IT IN THE ENCLOSED ENVELOPE

We mail up to 2 reminders to those who do not respond. You can help reduce costs by replying promptly.

The Alaska Department of Fish and Game administers all programs and activities free from discrimination based on race, color, national origin, age, sex, religion, marital status, pregnancy, parenthood, or disability. The department administers all programs and activities in compliance with Title VI of the Civil Rights Act of 1964, Section 504 of the Rehabilitation Act of 1973, Title II of the Americans with Disabilities Act of 1990, the Age Discrimination Act of 1975, and Title IX of the Education Amendments of 1972. If you believe you have been discriminated against in any program, activity, or facility, or if you desire further information please write to ADF&G, ADA Coordinator, P.O. Box 115526, Juneau, AK 99811-5526; U.S. Fish and Wildlife Service, 4401 N. Fairfax Drive, MS-2042, Arlington, VA 22203 or O.E.O., U.S. Department of the Interior, 1849 C Street Washington DC 20240. The department's ADA Coordinator can be reached via phone at the following numbers: (VOICE) 907-465-6077, (Statewide Telecommunications Device for the Deaf) 1-800-478-3648, (Juneau TDD) 907-465-3646, or (FAX) 907-465-6078. For questions on this publication, please contact ADF&G, Division of Sport Fish RTS, 333 Raspberry Road, Anchorage AK 99518 (907)-267-2280.

## GENERAL QUESTIONS

The questions below apply to people in your household who **PURCHASED** a 2009 Alaska Sport Fishing License:

- 1A. How many people in your household purchased a 2009 Alaska sport fishing license? ..... \_\_\_\_\_
- 1B. How many people recorded in 1A (above) sport fished in Alaska in 2009? ..... \_\_\_\_\_

The questions below apply to people in your household who **DID NOT PURCHASE** a 2009 Alaska Sport Fishing License:

- 2A. How many people in your household under 16 years of age sport fished in Alaska in 2009? ..... \_\_\_\_\_
- 2B. An Alaska resident 60 years of age and older, or an Alaska resident disabled veteran qualifies for a permanent identification card for Alaska sport fishing. How many people in your household **have** a permanent identification card, including those who did not sport fish in Alaska? ..... \_\_\_\_\_
- 2C. How many people recorded in 2B (above) sport fished in Alaska in 2009? ..... \_\_\_\_\_

The question below applies to **all people in your household** and the 2009 sport fishing season:

3. How many **total** people in your household sport fished in Alaska during 2009? ..... \_\_\_\_\_

Please provide comments on sport fishing in Alaska during 2009:

### DEFINITIONS

**Chartered/Guided:** You paid or otherwise compensated a sport fish guide or guide business to personally direct and accompany you in fishing activities. However, a person who provides only transportation services (including air) or rents out vessels or skiffs without remaining to direct your fishing activities is not a guide or charter operator for the purposes of this study.

**Household:** A household is defined as all people sharing a principal place of residence. This **excludes** persons renting (subletting) within a home, or relatives that live in separate homes. For example, a person paying rent for your basement apartment is not part of your household, nor is your visiting son or daughter. Record only harvest for household members.

**Personal use:** Personal use fisheries are designated by the Alaska Board of Fisheries for specific areas and gear types, and are allowed only in these legally defined areas. These fisheries require an **Alaska resident** sport fishing license or Alaska Department of Fish and Game Permanent Identification card for participation, and are distinguished by the requirement that the harvest must be for personal use only. These fisheries are only open to Alaska residents.

**Subsistence Fisheries:** Subsistence fisheries are legally defined rural fisheries for community residents and their household only, and are based on customary and traditional use of the resource. Do not report subsistence harvest in this survey, as the Division of Sport Fish does not manage these fisheries.

**Step 1 Complete Page 3, even if no one in your household fished.**

Page 3

Step 2 ...fish freshwater on the **KENAI/KASILOF/RUSSIAN RIVER** or saltwater in **COOK INLET/KACHEMAK BAY**?

Step 3 ...fish **SALTWATER** any place other than Cook Inlet or Kachemak Bay?

Step 4 ...fish **FRESHWATER** in any place other than Kenai/  
Kasilof/Russian River?

Step 5 ...gather **SHELLFISH** or go dipnetting in a **PERSONAL USE** fishery area?



### Step 6

Please return the survey  
in the envelope provided.  
Thank you for your time  
and effort.

Page 6Page 7Page 8Page 9Page 10Page 11Page 12

Use the enclosed Mapsite Booklet  
to help fill in your information.

## EXAMPLE OF HOW TO RECORD YOUR HOUSEHOLD'S 2009 SPORT FISHING

- 1 ► **Sections:** Use page 4 to identify the pages you will need to complete based on your household's 2009 sport fishing activities. Choices include **Kenai, Russian and Kasilof rivers**; **Cook Inlet and Kachemak Bay**; **freshwater sport fishing**; **saltwater sport fishing**; **shellfish and dipnetting**. Do not combine saltwater and freshwater fishing on one line or page. Each page will direct you where to record *guided/charter* and *nonguided/noncharter* fishing.
- 2 ► **Site Name:** Write the name of each site where you fished. Names of some commonly fished sites are provided in the *Maps/ite* booklet included in this packet. If you cannot locate a fishing site in the *Maps/ite* book, please write the area and the name of the location. **Kenai/ Kasilof/ Russian rivers** and **Cook Inlet/Kachemak Bay** have pages specifically designed for recording fishing at these sites; you will find them on pages 6-7.
- 3 ► **Area Code Letter:** The *Maps/ite* booklet divides Alaska into areas labeled A through Z. Use the *Maps/ite* booklet to determine the area code letter for each of your fishing locations and write it in the column marked *Area Code Letter*.
- 4 ► **Site Number:** The *Maps/ite* booklet lists the names and site numbers of many commonly fished sites in Alaska. Determine the correct site number for each location and write it in the *Site Number* column. If you do not find your site in the *Maps/ite* booklet, please be sure to record the *Area Code Letter* and the fishing site name or a brief description in the *Site Name* column.
- 5 ► **Fishery Type:** Mark whether you fished from a boat or from the shore/bank. If you fished from both a boat and on the shore/bank at the same location, check both boxes.
- 6 ► **Number of Household Anglers:** Record how many anglers in your household fished at this site.
- 7 ► **Number of Household Trips:** Record the number of trips made to this site (a trip, which may last one or more days, is a visit to a fishing location).
- 8 ► **Sum of each Household Angler's Days Fished:** Add up the TOTAL number of days each household member fished at this site. Count any part of a day as a whole day. If two or more anglers fished the same day, include that day in each angler's sum. Then total all anglers' days for that site.
- 9 ► **Caught and Kept:** A fish caught is one landed; a fish kept is one harvested. While it can be difficult to remember exactly all fish caught, please make your best estimation.

**EXAMPLE:** A husband and wife made 3 fishing trips to ABC Lake in their canoe. The man then fished alone on 1 additional trip to the site. In this example, the **number of household anglers** would be 2. The **number of trips** would be 4 (together they took 3, followed by 1 trip by the man alone). The **sum of each angler's days fished** would be 7; the sum of the trip they made together (3 days times 2 anglers) and the 1 day that the man fished alone. They **caught** a total of 4 silver salmon, and **kept** 3. The household survey recipient should record these trips with the following information:

### FRESHWATER SPORT FISHING

1 ► Freshwater Fishing Sites	See Mapsite Booklet		Caught from		6 ► No. of Household Anglers	7 ► No. of Household Trips	8 ► Sum of Each Household Angler's Days Fished	King Salmon Large <sup>1</sup>		King Salmon Small <sup>1</sup>		Land-locked Kings, Silvers		9 ► Silver (Coho) Salmon	Red (Sockeye) Salmon		Pink Salmon		Chum Salmon	
	3 ► Area Code Letter	4 ► Site Number	BOAT	SHORE				C	K	C	K	C	K		C	K	C	K	C	K
2 ► Site Name																				
FRESHWATER NON GUIDED — YOU DID NOT PAY to be personally directed during your fishing trip																				
Example: ABC Lake	X	999	✓		2	4	7	EXAMPLE						4	3					

# KENAI, KASILOF and RUSSIAN RIVER FRESHWATER

See Mapsite Booklet Page 17

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

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

Sum of Each Household Angler's Days Fished. Count any part of a day as one whole day. If 2 or more anglers fish the same day, include that day in each angler's sum.

Example: 2 household anglers fished the same day. One angler returned a second day, and fished again at the same site.

Sum of Each Household Angler's Days Fished would equal 3.

DO NOT INCLUDE FISH HARVESTED UNDER SUBSISTENCE REGULATIONS.

GUIDED SPORT FISHING		No. of Household Anglers	No. of Household Trips	Sum of Each Household Angler's Days Fished	King Salmon through June 30	King Salmon after June 30	Silver Salmon through August 31	Silver Salmon after August 31	Red Salmon through July 15	Red Salmon after July 15	Pink Salmon	Chum Salmon	Dolly Varden/ Arctic Char	Rainbow Trout	Steel-head Trout	Northern Pike	Smelt	Other (Specify)
					CAUGHT	KEPT	CAUGHT	KEPT	CAUGHT	KEPT	CAUGHT	KEPT	CAUGHT	KEPT	CAUGHT	KEPT	CAUGHT	KEPT
P5	1 Kenai River - Cook Inlet to Soldotna Bridge																	
P5	2 Kenai River - Soldotna Bridge to Moose River																	
P5	3 Kenai River - Moose River to Skilak Outlet																	
P5	4 Kenai River - Skilak Inlet to Kenai Lake																	
P5	500 Kasilof River Bank Fishing																	
P5	600 Kasilof River Boat Fishing																	
P0	9 Russian River*																	
NONGUIDED SPORT FISHING		No. of Household Anglers	No. of Household Trips	Sum of Each Household Angler's Days Fished	King Salmon through June 30	King Salmon after June 30	Silver Salmon through August 31	Silver Salmon after August 31	Red Salmon through July 15	Red Salmon after July 15	Pink Salmon	Chum Salmon	Dolly Varden/ Arctic Char	Rainbow Trout	Steel-head Trout	Northern Pike	Smelt	Other (Specify)
					CAUGHT	KEPT	CAUGHT	KEPT	CAUGHT	KEPT	CAUGHT	KEPT	CAUGHT	KEPT	CAUGHT	KEPT	CAUGHT	KEPT
P4	1 Kenai River - Cook Inlet to Soldotna Bridge																	
P4	2 Kenai River - Soldotna Bridge to Moose River																	
P4	3 Kenai River - Moose River to Skilak Outlet																	
P4	4 Kenai River - Skilak Inlet to Kenai Lake																	
P4	500 Kasilof River Bank Fishing																	
P4	600 Kasilof River Boat Fishing																	
P0	9 Russian River*																	

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

# **COOK INLET and KACHEMAK BAY SALTWATER**

See Mapsite Booklet Page 15

Number of Household Anglers who fished. Do not include visiting friends, relatives, or other party members outside your household.  
 Number of Household Trips (a trip, which may last one or more days, is a visit to a fishing site).  
 Sum of Each Household Angler's Days Fished. Count any part of a day as one whole day. If 2 or more anglers fish the same day, include that day in each angler's sum.  
 Example: 2 household anglers fished the same day. One angler returned a second day, and fished again at the same site.  
 Sum of Each Household Angler's Days Fished would equal 3.  
**DO NOT INCLUDE FISH HARVESTED UNDER SUBSISTENCE REGULATIONS.**

NORTH and CENTRAL COOK INLET SALTWATER		No. of Household Anglers	No. of Household Trips	Sum of Each Household Angler's Days Fished	King Salmon through June 24	King Salmon after June 24	Silver (Coho) Salmon	Red (Sockeye) Salmon	Pink Salmon	Chum Salmon	Dolly Varden/ Arctic Char	Steel-head Trout	Smelt	Halibut	Shark	Rock-fish	Lingcod	Pacific Cod	Other (specify)
					CAUGHT	KEPT	CAUGHT	KEPT	CAUGHT	KEPT	CAUGHT	KEPT	CAUGHT	KEPT	CAUGHT	KEPT	CAUGHT	KEPT	CAUGHT
<b>CHARTER BOAT SALTWATER</b>		<b>CHARTER</b>																	
P6	980 Cook Inlet area <u>north</u> of Bluff Point (including saltwaters by Anchor River, Whiskey Gulch, Deep Creek and Ninilchik River; and Westside Cook Inlet north of Chinitna Point)																		
<b>NON CHARTER BOAT SALTWATER</b>		<b>NON CHARTER</b>																	
P1	980 Cook Inlet area <u>north</u> of Bluff Point (including saltwaters by Anchor River, Whiskey Gulch, Deep Creek and Ninilchik River; and Westside Cook Inlet north of Chinitna Point)																		
<b>FISHING FROM SHORE SALTWATER</b>		<b>SHORE</b>																	
P1	981 Shoreline saltwater fishing north of Bluff Point (specify)																		
LOWER COOK INLET and KACHEMAK BAY SALTWATER		No. of Household Anglers	No. of Household Trips	Sum of Each Household Angler's Days Fished	King Salmon Summer Fishery*	King Salmon Winter Fishery**	Silver (Coho) Salmon	Red (Sockeye) Salmon	Pink Salmon	Chum Salmon	Dolly Varden/ Arctic Char	Steel-head Trout	Smelt	Halibut	Shark	Rock-fish	Lingcod	Pacific Cod	Other (specify)
					CAUGHT	KEPT	CAUGHT	KEPT	CAUGHT	KEPT	CAUGHT	KEPT	CAUGHT	KEPT	CAUGHT	KEPT	CAUGHT	KEPT	CAUGHT
<b>CHARTER BOAT SALTWATER</b>		<b>CHARTER</b>																	
P6	796 Kachemak Bay (including Bluff Point area to Seldovia)																		
P6	952 Lower Cook Inlet sites west of Gore Point and Kachemak Bay (not including Kachemak Bay)																		
<b>NON CHARTER BOAT SALTWATER</b>		<b>NON CHARTER</b>																	
P1	796 Kachemak Bay (including Bluff Point area to Seldovia)																		
P1	952 Lower Cook Inlet sites west of Gore Point and Kachemak Bay (not including Kachemak Bay)																		
<b>FISHING FROM SHORE SALTWATER</b>		<b>SHORE</b>																	
P1	823 Homer Spit Shoreline																		
P1	991 Other Shoreline saltwater fishing sites (specify)																		

\* Summer king salmon fishery occurs April 1 through September 30.

\*\* Winter king salmon fishery occurs January 1 through March 31 and October 1 through December 31.



# SALTWATER SPORT FISHING

Go to Page 7 for Cook Inlet/Kachemak Bay saltwater  
Go to Page 12 for shellfish

Number of Household Anglers who fished. Do not include visiting friends, relatives, or other party members outside your household.  
Number of Household Trips (a trip, which may last one or more days, is a visit to a fishing site).  
Sum of Each Household Angler's Days Fished. Count any part of a day as one whole day.  
If multiple household anglers fish the same day, include that day in each angler's sum.  
Example: In the example below, 2 household anglers fished the same day. One angler returned a second day, and fished again at the same site. Sum of Each Household Angler's Days Fished would equal 3.  
**DO NOT INCLUDE FISH HARVESTED UNDER SUBSISTENCE REGULATIONS**

Saltwater Fishing Sites		See Mapsite Booklet		Caught from		No. of Household Anglers	No. of Household Trips	Sum of Each Household Angler's Days Fished	King Salmon Large*		King Salmon Small*		Silver (Coho) Salmon		Red (Sockeye) Salmon		Pink Salmon		Chum Salmon		Row No.	Record additional saltwater species on Page 9
Site Name	Area Code Letter	Site Number	BOAT	SHORE	C A U G H T				K E E P T	C A U G H T	K E E P T	C A U G H T	K E E P T	C A U G H T	K E E P T	C A U G H T	K E E P T	C A U G H T	K E E P T			
<b>SALTWATER CHARTER — YOU PAID to be personally directed during your fishing trip</b>																						
Example: ABC Inlet	X	999	✓		2	2	3						4	2								Example →
1																					1	
2																					2	
3																					3	→
4																					4	
5																					5	
6																					6	→
7																					7	
8																					8	
<b>SALTWATER NON CHARTER — YOU DID NOT PAY to be personally directed during your fishing trip</b>																						
9																					9	
10																					10	
11																					11	
12																					12	
13																					13	→
14																					14	
15																					15	
16																					16	→
17																					17	
18																					18	
19																					19	

\*Saltwater King Salmon Size Categories:

In Area Code Letters A-H "Large" are king salmon 28 inches and over, "Small" are king salmon less than 28 inches

In Area Code Letters I-Z, "Large" are king salmon 20 inches and over, "Small" are king salmon less than 20 inches

# SALTWATER SPORT FISHING

Continued from page 8

Go to Page 7 for Cook Inlet/Kachemak Bay saltwater

Go to Page 12 for shellfish

Row No.	Halibut		Rockfish		Lingcod		Sablefish (Black Cod)		Pacific Cod		Steelhead Trout		Dolly Varden/ Arctic Char		Cutthroat Trout		Smelt		Shark		Other Fish (Specify)		
	CAUGHT	KEPT	CAUGHT	KEPT	CAUGHT	KEPT	CAUGHT	KEPT	CAUGHT	KEPT	CAUGHT	KEPT	CAUGHT	KEPT	CAUGHT	KEPT	CAUGHT	KEPT	CAUGHT	KEPT	Other Fish Name	CAUGHT	KEPT

## SALTWATER CHARTER — YOU PAID to be personally directed during your fishing trip

→	Example (Continued)	2	2	2	1	2	1						Example								Example: Kelp Greenling	2	1
	1																						
	2																						
→	3																						
	4																						
	5																						
→	6																						
	7																						
	8																						

## SALTWATER NON CHARTER — YOU DID NOT PAY to be personally directed during your fishing trip

	9																						
	10																						
	11																						
	12																						
→	13																						
	14																						
	15																						
→	16																						
	17																						
	18																						
	19																						

## FRESHWATER SPORT FISHING

Go to page 6 for Kenai/ Kasilof/ Russian river fishing  
Go to page 12 for Personal Use salmon dipnetting

Number of Household Anglers who fished. Do not include visiting friends, relatives, or other party members outside your household.  
Number of Household Trips (a trip, which may last one or more days, is a visit to a fishing site).  
Sum of Each Household Angler's Days Fished. Count any part of a day as one whole day.  
If multiple household anglers fish the same day, include that day in each angler's sum.  
Example: In the example below, 2 household anglers fished the same day. One angler returned a second day, and fished again at the same site. Sum of Each Household Angler's Days Fished would equal 3.  
**DO NOT INCLUDE FISH HARVESTED UNDER SUBSISTENCE REGULATIONS.**

Freshwater Fishing Sites		See Mapsite Booklet	Caught from		No. of Household Anglers	No. of Household Trips	Sum of Each Household Angler's Days Fished	King Salmon Large*		King Salmon Small*		Land-locked Kings, Silvers		Silver (Coho) Salmon		Red (Sockeye) Salmon		Pink Salmon		Chum Salmon		Record additional freshwater species on Page 11	
Site Name	Area Code Letter	Site Number	BOAT	SHORE				C	K	C	K	C	K	C	K	C	K	C	K	C	K		
<b>FRESHWATER GUIDED — YOU PAID to be personally directed during your fishing trip</b>																							
Example: ABC Lake	X	999	✓		2	2	3						4	2									Example →
1																						1	
2																						2	
3																						3 →	
4																						4	
5																						5	
6																						6 →	
7																						7	
8																						8	
<b>FRESHWATER NON GUIDED — YOU DID NOT PAY to be personally directed during your fishing trip</b>																							
9																						9	
10																						10	
11																						11	
12																						12	
13																						13 →	
14																						14	
15																						15	
16																						16 →	
17																						17	
18																						18	
19																						19	

\*Freshwater King Salmon Size Categories:

In Area Code Letters A-G, "Large" are king salmon 28 inches and over, "Small" are king salmon less than 28 inches.

In Area Code Letters H-Z, "Large" are king salmon 20 inches and over, "Small" are king salmon less than 20 inches.

## Continued from page 10

Go to page 12 for Personal Use salmon dipnetting

**FRESHWATER GUIDED —** YOU PAID to be personally directed during your fishing trip

**FRESHWATER NON GUIDED** — YOU DID NOT PAY to be personally directed during your fishing trip

11

## SHELLFISH Crabs, Clams, and Shrimp

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

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

Sum of Each Household Angler's Days Fished. Count any part of a day as one whole day. If 2 or more anglers fish the same day, include that day in each angler's sum. Example: 2 household anglers fished the same day. One angler returned a second day, and fished again at the same site. Sum of Each Household Angler's Days Fished would equal 3.

**DO NOT INCLUDE FISH HARVESTED UNDER SUBSISTENCE REGULATIONS**

Fishing Sites		See Mapsite Booklet		No. of Household Anglers	No. of Household Trips	Sum of Each Household Angler's Days Fished	Razor Clams (numbers)	Hardshell Clams (gallons)	Shrimp (gallons)	King Crab	Dungeness Crab	Tanner Crab	Other Shellfish (Specify)
Site Name	Area Code Letter	Site Number	KEPT				KEPT	KEPT	CAUGHT	KEPT	CAUGHT	KEPT	CAUGHT
Example: ABC Beach	X	999	2	2	2	20	2	2					Example
						NUMBERS	GALLONS	GALLONS					

### RAZOR CLAMS

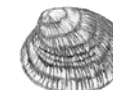


Razor Clams have long, narrow, smooth shells that can grow to longer than 7 inches. The shells are covered with a thin tissue-like layer that varies in color from brown to yellowish-brown depending upon the clam size. In older clams the tissue covering is usually eroded. The shells are thin and the shell edges sharp.

### HARDSHELL CLAMS



The littleneck clam shells are usually white, but may be brown or have brown markings. The shells have concentric growth rings and distinct vertical ridges. Littleneck clams are about 2 inches long.



The butter clam shell is thick and white. It has heavy concentric growth rings, but no vertical ridges. The shell's inner edge is smooth. Butter clams are 3 to 5 inches long.

## PERSONAL USE SALMON DIPNETTING

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

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

Sum of Each Household Angler's Days Fished. Count any part of a day as one whole day. If 2 or more anglers fish the same day, include that day in each angler's sum. Example: 2 household anglers fished the same day. One angler returned a second day, and fished again at the same site. Sum of Each Household Angler's Days Fished would equal 3.

**DO NOT INCLUDE FISH HARVESTED UNDER SUBSISTENCE REGULATIONS**

Fishing Sites		See Mapsite Booklet		No. of Household Anglers	No. of Household Trips	Sum of Each Household Angler's Days Fished	King Salmon	Silver (Coho) Salmon	Red (Sockeye) Salmon	Pink Salmon	Chum Salmon	Other (Specify)
Site Name	Area Code Letter	Site Number	KEPT				KEPT	KEPT	KEPT	KEPT	KEPT	KEPT
Example: ABC River	X	999	2	2	2		1	15		Example		

# STATE OF ALASKA

## DEPARTMENT OF FISH AND GAME

### DIVISION OF SPORT FISH

SEAN PARNELL, GOVERNOR

Research & Technical Services  
333 Raspberry Road.  
Anchorage, AK 99518-1599  
PHONE: (907) 267-2280  
FAX: (907) 267-2422

Dear Alaska Angler,

You have been selected to receive a **2009 Sport Fish Survey**. We conduct this survey every year to measure how much fishing occurs and how many fish are caught and kept by sport anglers in Alaska. This information is essential to our ongoing efforts to maintain and improve Alaska's sport fisheries.

Please help us by doing your best to remember **your household's** 2009 sport fishing activity, record it in the enclosed survey booklet, and return the booklet using the postage-paid envelope. Your voluntary participation is extremely important. *The information provided will be treated confidentially and will not be used for enforcement purposes.*

While the tables and maps may make the survey look a bit complicated, for most people there are only a few pages that must be completed to report a household's sport fishing information.

**If you and other members of your household did not get a chance to go fishing in 2009, we ask that you please complete the General Questions on page 3 of the questionnaire**, and return the survey to us. We mail reminders when the survey is not returned, so returning the booklet in a timely fashion will help ensure that we do not send you the survey again.

Please accept the full-color index of Alaska fresh and salt water species as a small token of thanks for your effort.

The results of the 2009 Alaska Sport Fish Survey will be available in fall of 2010. If you are interested in seeing the results of previous years' surveys, visit the Alaska Division of Sport Fish website at: [http://www.sf.adfg.state.ak.us/statewide/sf\\_home.cfm](http://www.sf.adfg.state.ak.us/statewide/sf_home.cfm)

Thank you for your willingness to help us maintain and improve Alaska's sport fisheries.

Sincerely,

Charles O Swanton, Director

# STATE OF ALASKA

## DEPARTMENT OF FISH AND GAME

### DIVISION OF SPORT FISH

SEAN PARNELL, GOVERNOR

Research & Technical Services  
333 Raspberry Road.  
Anchorage, AK 99518-1599  
PHONE: (907) 267-2280  
FAX: (907) 267-2422

Dear Alaska Angler,

A few weeks ago we sent you a **2009 Sport Fishing Survey**. We conduct this survey every year to measure how much fishing occurs and how many fish are caught and kept by sport anglers in Alaska. This information is essential to our ongoing efforts to maintain and improve Alaska's sport fisheries.

Information about your 2009 sport fishing is very valuable to this study because you have been chosen to represent many other sport anglers in Alaska. However, we have yet to receive your completed survey.

Please take a few minutes and recollect **your household's** 2009 sport fishing activity, record it in the enclosed survey booklet, and return the booklet using the postage-paid envelope. *The information provided will be treated confidentially and will not be used for enforcement purposes.*

While the tables and maps may make the survey look a bit complicated, for most people there are only a few pages that must be completed to report a household's sport fishing information.

**If you and other members of your household did not get a chance to go fishing in 2009, we ask that you please complete the General Questions on page 3 of the questionnaire**, and return the survey to us. We mail reminders when the survey is not returned, so returning the booklet in a timely fashion will help ensure that we do not send you the survey again.

Please accept the full-color index of Alaska fresh and salt water species as a small token of thanks for your effort.

This is the 33<sup>rd</sup> year that the Alaska Sport Fishing Survey has been conducted, and we thank all participants for the success of this project. The results of the 2009 Alaska Sport Fishing Survey will be available in fall of 2010. If you are interested in seeing the results of previous years' surveys, visit the Alaska Division of Sport Fish website: [http://www.sf.adfg.state.ak.us/statewide/sf\\_home.cfm](http://www.sf.adfg.state.ak.us/statewide/sf_home.cfm).

Thank you for your willingness to help us maintain and improve Alaska's sport fisheries.

Sincerely,

Charles O Swanton, Director

# STATE OF ALASKA

## DEPARTMENT OF FISH AND GAME

### *DIVISION OF SPORT FISH*

**SEAN PARNELL, GOVERNOR**

*Research & Technical Services  
333 Raspberry Road.  
Anchorage, AK 99518-1599  
PHONE: (907) 267-2280  
FAX: (907) 267-2422*

Dear Angler,

Re: Sport Fishing in Alaska, 2009

At this time of year, we realize that your 2009 fishing experience is becoming a distant memory. We are, however, requesting your help by asking that you complete the Alaska **2009 Sport Fishing Survey**. We appreciate your willingness to consider our request by supplying your best recollection of your household's sport fishing participation, catch, and harvest. Your response will help guide decisions that protect and enhance Alaska's excellent sport fishing opportunities.

This survey is mailed annually to about 10% of Alaska sportfishing license holders. The information gained helps Alaska Department of Fish and Game determine where anglers fished and how many fish they caught and kept within Alaska's sport fisheries. The results are used for sport fisheries planning and management purposes, and by anglers planning for the best sport fishing experience.

The study is drawing to a close, and this is the last contact that will be made in this year's survey. Hearing from everyone who was mailed a survey helps assure that the results are as accurate as possible. Even if you or other household members didn't fish in 2009, we ask that you complete the General Questions on page 3 and mail the survey back to us in the envelope provided.

If you have already returned your completed form, please disregard this letter and accept my thanks.

Sincerely,

Charles O. Swanton,  
Director



## **APPENDIX C: 2009 STANDARD AND SUPPLEMENTAL SURVEY QUESTIONNAIRES**

*ALASKA DEPARTMENT OF FISH AND GAME*

# *2009 Sport Fish Survey*



*We are interested in knowing about your Alaskan fishing experiences in 2009.*

*Even if you did not fish in 2009, please answer the questions on page 3.*

*You need only fill out the pages for areas of Alaska where you or your household members fished. We ask that you do **not** include subsistence caught fish.*

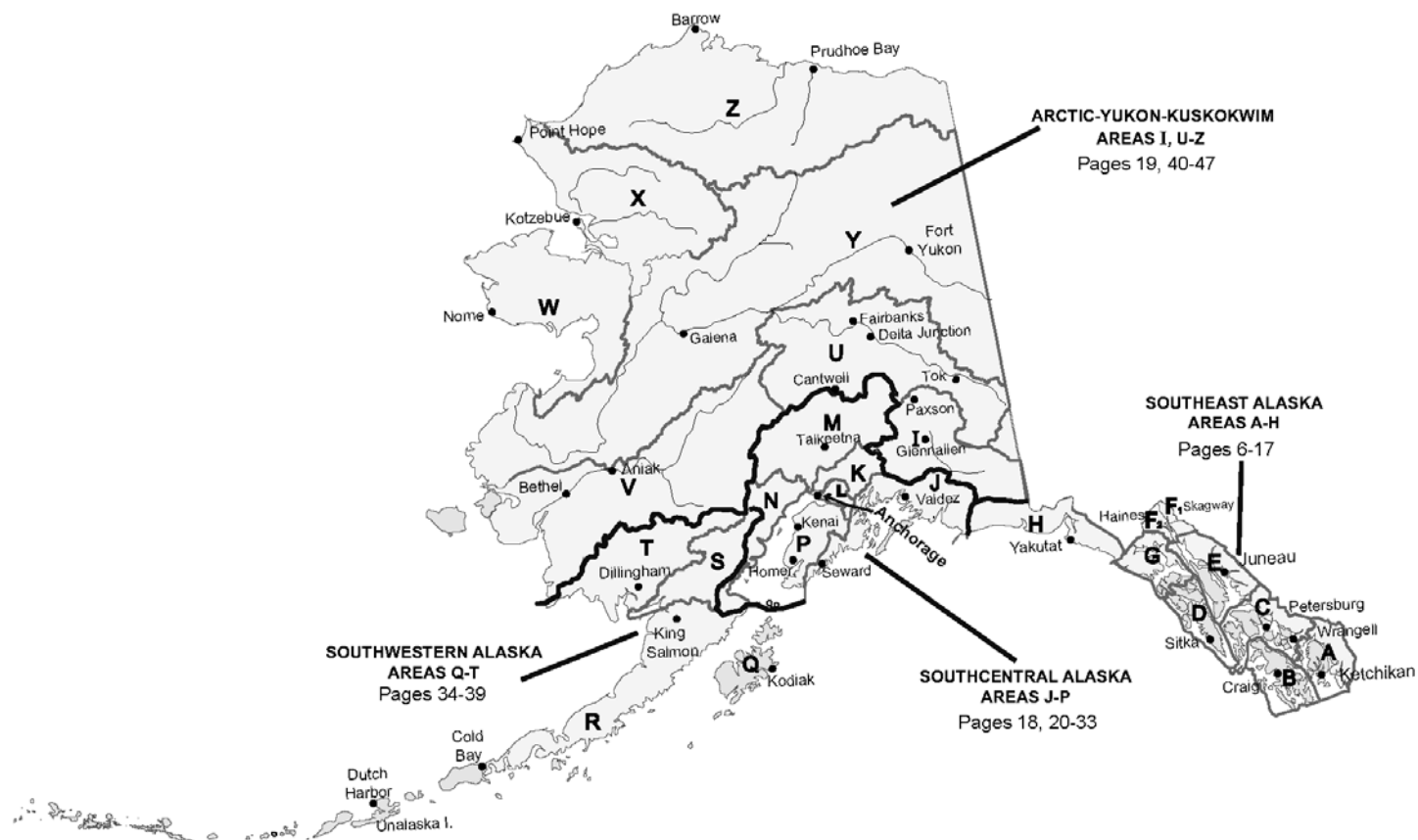
*Thank-you*



Alaska Department of Fish and Game  
Division of Sport Fish (RTS)  
333 Raspberry Road  
Anchorage, Alaska 99518  
(907) 267-2280

## ALASKA SPORTFISHING AREAS

Use the map below to find the pages that apply to your household's sportfishing in 2009



## GENERAL QUESTIONS

The questions below apply to people in your household who **PURCHASED** a 2009 Alaska Sportfishing License:

- 1A. How many people in your household purchased a 2009 Alaska sportfishing license? ..... \_\_\_\_\_
- 1B. How many people recorded in 1A (above) sport fished in Alaska in 2009? ..... \_\_\_\_\_

The questions below apply to people in your household who **DID NOT PURCHASE** a 2009 Alaska Sportfishing License:

- 2A. How many people in your household under 16 years of age sport fished in Alaska in 2009? ..... \_\_\_\_\_
- 2B. An Alaska resident 60 years of age and older, or an Alaska resident disabled veteran qualifies for a permanent identification card for Alaska sportfishing. How many people in your household **have** a permanent identification card, including those who did not sport fish in Alaska? ..... \_\_\_\_\_
- 2C. How many people recorded in 2B (above) sport fished in Alaska in 2009? ..... \_\_\_\_\_

The question below applies to **all people in your household** and the 2009 sportfishing season:

3. How many **total** people in your household sport fished in Alaska during 2009?..... \_\_\_\_\_

Please provide comments on sportfishing in Alaska during 2009:

### DEFINITIONS:

**Household:** A **household** is defined as all people sharing a principal place of residence. This excludes persons renting (subletting) within a home, or relatives that live in separate homes. A person paying rent for your basement apartment is not part of your household, nor is your visiting son or daughter. Record only harvest for household members.

**Personal use:** Personal use fisheries are designated by the Alaska Board of Fisheries for specific areas and gear types, and are allowed only in these legally defined areas. These fisheries require an **Alaska resident** sportfishing license or Alaska Department of Fish and Game Permanent Identification card for participation, and are distinguished by the requirement that the harvest must be for personal use only. These fisheries are NOT open to non-Alaska residents.

**Subsistence Fisheries:** **Subsistence** fisheries are legally defined rural fisheries for community residents and their household only, and are based on customary and traditional use of the resource. Do not report subsistence harvest in this survey, as the Division of Sport Fish does not manage these fisheries.

## INSTRUCTIONS

**Period covered:** January 1 through December 31, 2009.

**What if your household did not sport fish in 2009?** Answer the questions on page 3 and return the survey in the postage-paid envelope so we may avoid mailing you additional 2009 surveys.

**What if your household did sport fish in 2009?**

- Answer the questions on page 3.
- Read the instructions on page 5, referring to the example below.
- Complete the pages in this booklet that cover the areas where you or your household members fished.
- Return the survey in the postage-paid envelope.

**Who to include:** Report your household's sportfishing only. Do not include visiting friends or relatives.

**What to include:** Report all your household sport, shellfish and personal use fishing information. If you are the beneficiary (the one who keeps the fish) of a proxy, report that fishing activity as part of your household.

**What to exclude:** Do not report commercially caught or subsistence caught fish. A sportfishing guide should not report client information. Do not report fish caught while proxy fishing for someone outside your household. Report only your own household information.

**When to reply:** Return this form after completing all 2009 sportfishing, including ice fishing.

**Please help reduce costs:** We mail up to 2 reminders to those who do not respond. You can help reduce costs by replying promptly.

**SPORT ANGLERS LIVING OUTSIDE OF THE UNITED STATES:** The postage permit that we have for return mail is valid only within the United States. Because the survey helps us to offer world class fishing experiences for all anglers, we ask that you return the survey by supplying your own postage.

If you have questions about this survey, please call (907) 267-2280 or contact us via email at: [dfg.dsf.publications@alaska.gov](mailto:dfg.dsf.publications@alaska.gov)

### HOW TO RECORD YOUR HOUSEHOLD'S Sportfishing: See the step by step instructions on page 5.

#### EXAMPLE:

A man and his wife fished together on 3 trips to the Kenai River near the Soldotna Bridge. They both fished 1 day on each of these trips, and caught a total of 4 silver salmon and kept 3. The man then fished alone on 1 additional trip for half a day (for the survey purposes, any part of a day is counted as a whole day) but he didn't catch anything on this trip.

This survey respondent should record these trips with the following information:

Number of Household Anglers = 2;  
 Number of Household Trips = 4 (3 by the man and woman together, 1 by the man alone);  
 Sum of Each Household Angler's Days Fished = A total of 7 (4 by the man, and 3 by the wife).

P4		5 No. of Household Anglers	6 No. of Household Trips	7 Sum of Each Household Angler's Days Fished	King Salmon prior to July 1	King Salmon after and inc. July 1	Silver Salmon prior to Sept 1	Silver Salmon after and inc. Sept 1	Red Salmon	Pink Salmon	Chum Salmon	Lake Trout	Dolly Varden/ Arctic Char	Steel-head Trout	Rainbow Trout	Arctic Grayling	
		CAUGHT	KEPT	CAUGHT	KEPT	CAUGHT	KEPT	CAUGHT	KEPT	CAUGHT	KEPT	CAUGHT	KEPT	CAUGHT	KEPT	CAUGHT	KEPT
2	KENAI AND KASIOF RIVERS NON-GUIDED																
3	FRESHWATER NON-GUIDED																
4	1 Kenai River - Cook Inlet to Soldotna Bridge	2	4	7			4	3									

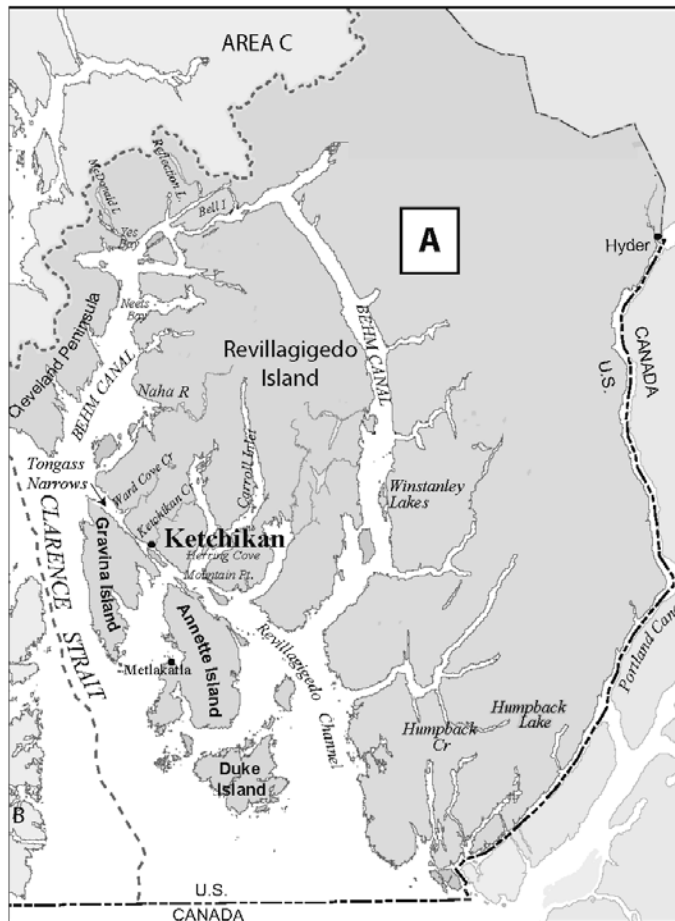
► **THE ITEMS BELOW REFER TO THE EXAMPLE ON PAGE 4.**

- 1 ► The survey booklet divides Alaska into areas labeled A through Z. You can use the map on page 2 to locate the area where you fished, and to determine which pages of the booklet apply to your fishing activity. Additional maps are provided throughout the book.
- 2 ► Each survey area has a named description, which is identified by a major area or drainage.
- 3 ► Area sites are divided into **saltwater** and **freshwater** listings. Some areas have specific locations to record personal use (see definition of personal use fishing on page 3) or shellfish. There are special pages for recording fishing on the Kenai and Kasilof rivers.
- 4 ► Each area has a listing of common sites where anglers fish in Alaska. If you do not find your site listed, please be sure to record the fishing site in the appropriate area page, together with the name or description of the site fished. For Freshwater, record under "other lakes" or "other streams", for Saltwater, record under "other boat" or "other shoreline".
- 5 ► **Number of Household Anglers:** Record how many members of your household fished at this site (see definition of a household on page 3).
- 6 ► **Number of Household Trips:** Record the number of trips made to this site (a trip, which may last one or more days, is a visit to a fishing location).
- 7 ► **Sum of each Household Angler's Days Fished:** Add up the **TOTAL** number of days each household member fished at this site. Count any part of a day as a whole day. If two or more anglers fished the same day, include that day in each angler's sum. Then total all anglers' days for that site. Example: If three household anglers fish two days at the same site, the sum of the household anglers' days fished = 6.
- 8 ► **Caught:** Write how many fish were caught, whether or not they were kept.
- 9 ► **Kept:** Write how many fish were kept.

Thank you! Please return the survey in the envelope provided.

## Ketchikan

Area A Page 7



## Prince of Wales Island

Area B Page 8



Appendix C1.–Page 7 of 48.

For map, see page 6.

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

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

Sum of Each Household Angler's Days Fished. Count any part of a day as one whole day. If 2 or more anglers fish the same day, include that day in each angler's sum. Example: If 2 household anglers fished the same day, Sum of Each Household Angler's Days Fished = 2.

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

DO NOT INCLUDE FISH HARVESTED UNDER SUBSISTENCE REGULATIONS.

A	No. of House- hold Anglers	No. of House- hold Trips	Sum of Each House- hold Angler's Days Fished	King Salmon 28" and over	King Salmon less than 28"	Silver Salmon	Red Salmon	Pink Salmon	Chum Salmon	Dolly Varden	Steel-head Trout	Rainbow Trout	Cut-throat Trout	Brook Trout	Arctic Grayling	Halibut	Lingcod	Pacific Cod	Rockfish	Other (specify)			
				C	K	C	K	C	K	C	K	C	K	C	K	C	K	C	K	C	K	C	K
				AUG	SEP	AUG	SEP	AUG	SEP	AUG	SEP	AUG	SEP	AUG	SEP	AUG	SEP	AUG	SEP	AUG	SEP	AUG	SEP
KETCHIKAN AREA																							
SALTWATER	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼		
1 Boat - East and West Behm Canals																							
1008 Boat - Terminal Harvest Areas near Ketchikan *†																							
5 Boat - Yes Bay																							
6 Boat - Bell Island																							
728 Boat - Mountain Point																							
730 Boat - Carroll Inlet																							
737 Shoreline - Herring Cove																							
9991 Other Boat sites (specify)																							
9992 Other Shoreline sites (specify)																							
FRESHWATER	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼		
10 Ward Cove Creek																							
9 Naha River																							
214 Ketchikan Creek																							
134 Humpback Creek																							
165 Reflection Lake																							
180 Ward Lake																							
200 McDonald Lake drainage																							
187 Winstanley Lakes																							
9994 Other Streams (specify)																							
9993 Other Lakes (specify)																							

\* Includes the Neets Bay and Mountain Point harvest area.

† A terminal harvest area is where associated boundaries and liberalized harvest limits or methods and means are established by emergency order.



For map, see page 6.

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

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

Sum of Each Household Angler's Days Fished. Count any part of a day as one whole day. If 2 or more anglers fish the same day, include that day in each angler's sum. Example: If 2 household anglers fished the same day, Sum of Each Household Angler's Days Fished = 2.

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

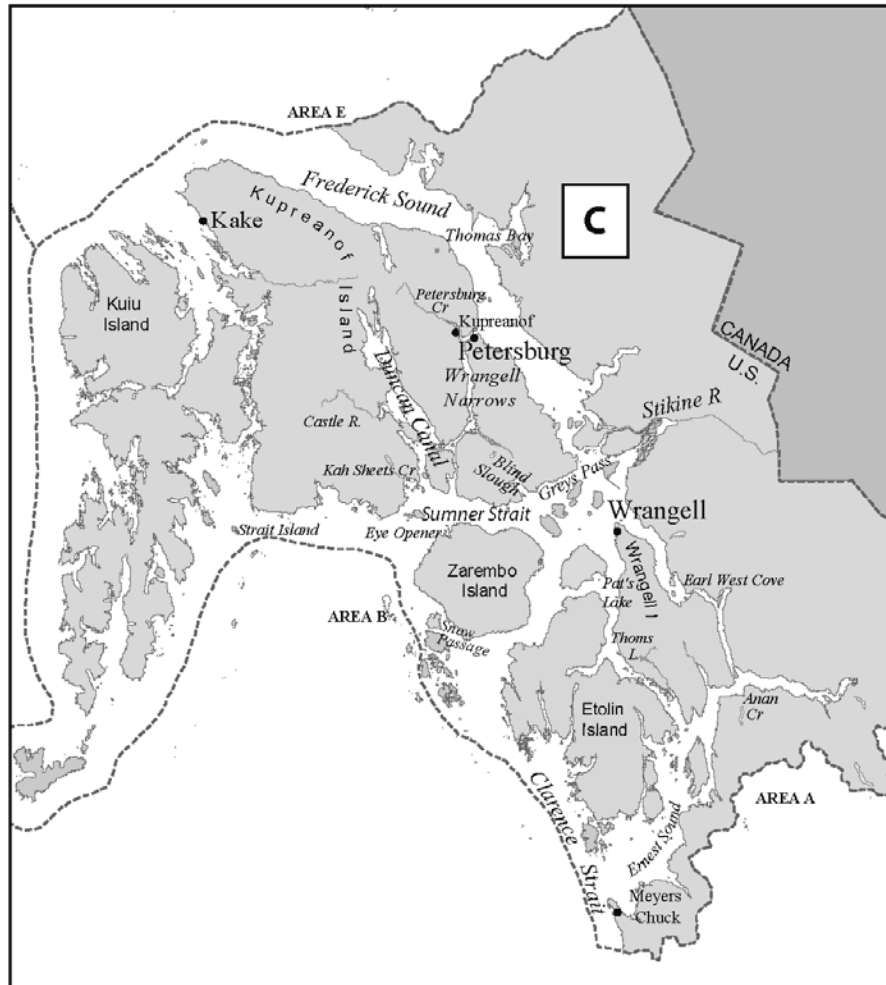
DO NOT INCLUDE FISH HARVESTED UNDER SUBSISTENCE REGULATIONS.

B  PRINCE OF WALES ISLAND AREA	No. of Household Anglers	No. of Household Trips	Sum of Each Household Angler's Days Fished	King Salmon 28" and over		King Salmon less than 28"		Silver Salmon		Red Salmon		Pink Salmon		Chum Salmon		Dolly Varden		Steelhead Trout		Rainbow Trout		Cutthroat Trout		Smelt		Halibut		Lingcod		Pacific Cod		Rockfish		Other (specify)	
				C	K	C	K	C	K	C	K	C	K	C	K	C	K	C	K	C	K	C	K	C	K	C	K	C	K	C	K	C	K	C	K
SALTWATER	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	
736 Boat - Waterfall Bay																																			
1008 Boat - Eastside Prince of Wales Island																																			
1010 Boat - Westside Prince of Wales Island																																			
1055 Shoreline - Neck Lake Outlet Fishery*																																			
9991 Other Boat sites (specify)																																			
9992 Other Shoreline sites (specify)																																			
FRESHWATER	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	
216 Big (108) Creek																																			
115 Black Bear Creek																																			
120 Eagle Creek																																			
124 Harris River																																			
3 Karta River																																			
219 Kegan System (Stream, Lake)																																			
5 Klawock River																																			
191 Salmon Bay Creek																																			
243 Salmon Lake																																			
220 Sarkar System (Stream, Lake)																																			
158 Staney Creek																																			
218 Sweetwater System (Stream, Lake)																																			
217 Thorne System (Stream, Lake)																																			
9994 Other Streams (specify)																																			
9993 Other Lakes (specify)																																			

\* Located within the Whale Passage area.

# Kake, Petersburg, Wrangell, Stikine

Area C, Page 10



# Sitka

Area D, Page 11



For map, see page 9.

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

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

Sum of Each Household Angler's Days Fished. Count any part of a day as one whole day. If 2 or more anglers fish the same day, include that day in each angler's sum. Example: If 2 household anglers fished the same day, Sum of Each Household Angler's Days Fished = 2

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

DO NOT INCLUDE FISH HARVESTED UNDER SUBSISTENCE REGULATIONS.

C	No. of Household Anglers	No. of Household Trips	Sum of Each Household Angler's Days Fished	King Salmon 28" and over		King Salmon less than 28"		Silver Salmon		Red Salmon		Pink Salmon		Chum Salmon		Dolly Varden		Steelhead Trout		Rainbow Trout		Cutthroat Trout		Arctic Grayling		Smelt		Halibut		Lingcod		Rockfish		Other (specify)		
				C	A	C	A	C	K	C	K	C	K	C	K	C	K	C	K	C	K	C	K	C	K	C	K	C	K	C	K	C	K	C	K	
				U	G	H	T	U	G	H	T	U	G	H	T	U	G	H	T	U	G	H	T	U	G	H	T	U	G	H	T	U	G	H	T	U
KAKE, PETERSBURG, WRANGELL AND STIKINE AREA																																				
SALTWATER	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	
728 Boat - Frederick Sound (near Petersburg)																																				
1 Boat - Terminal Harvest Area near Petersburg* †																																				
720 Boat - Wrangell Narrows																																				
758 Boat - Thomas Bay																																				
906 Boat - Rest of Petersburg area																																				
3 Boat - Greys Pass/Banana Point																																				
794 Boat - Sumner Strait from Strait Island to Greys Pass**																																				
798 Boat - Snow Passage																																				
908 Boat - Wrangell Area																																				
776 Boat - Kake Area																																				
907 Shoreline - Petersburg Road System																																				
909 Shoreline - Wrangell Road System																																				
9991 Other Boat sites (specify)																																				
9992 Other Shoreline sites (specify)																																				
FRESHWATER	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	
9 Anan Creek																																				
5 Blind Slough (in Wrangell Narrows)																																				
8 Castle River																																				
147 Kah Sheets Creek																																				
202 Pat's Lake (Trout Lake)																																				
10 Petersburg Creek																																				
175 Stikine River																																				
216 Thoms Creek and Lake																																				
9994 Other Streams (specify)																																				
9993 Other Lakes (specify)																																				

\* Described as that portion of Wrangell Narrows, south of 56° 46' North latitude (Martinsen's Dock) and north of the latitude of the northern tip of Woewodski Island.

\*\* Waters adjacent to South Mitkof Island shore (Woodpecker Cove, Station Island), Zarembo Island (Baht Harbor, Craig Pt.), and South Kupreanof Island (Kah Sheets Bay, Level islands, and Eye Opener).

† A terminal harvest area is where associated boundaries and liberalized harvest limits or methods are established by emergency order.

For map, see page 9.

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

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

Sum of Each Household Angler's Days Fished. Count any part of a day as one whole day. If 2 or more anglers fish the same day, include that day in each angler's sum. Example: If 2 household anglers fished the same day, Sum of Each Household Angler's Days Fished = 2.

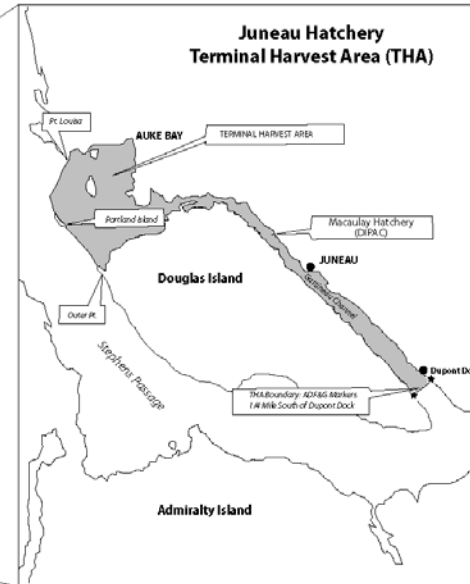
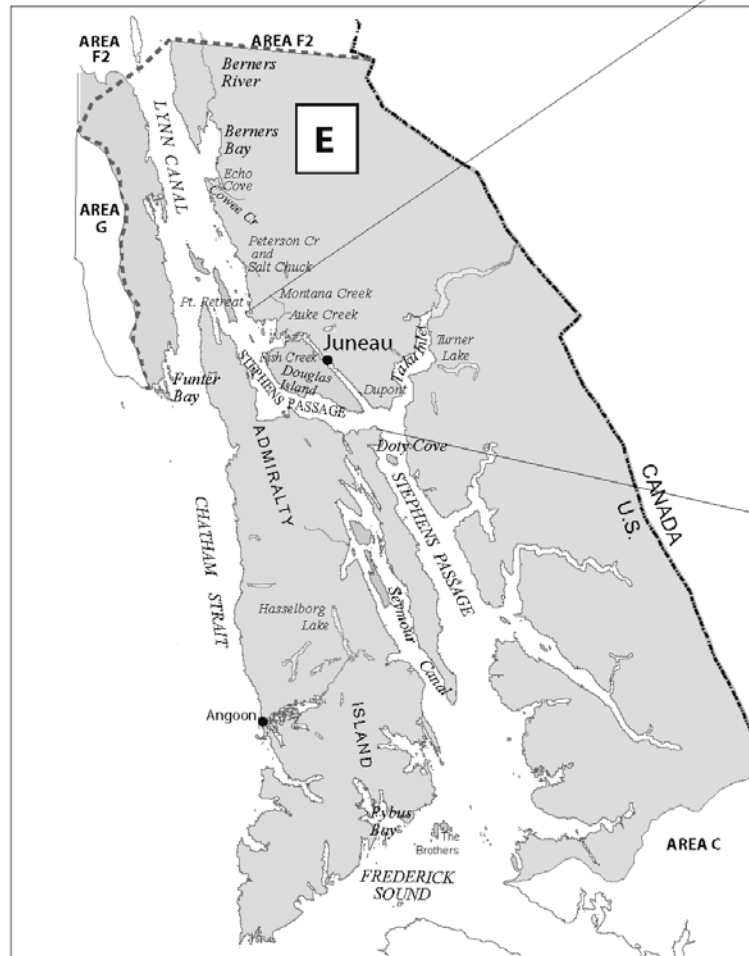
For each type of fish, write the total number caught and the number kept by your household.

**DO NOT INCLUDE FISH HARVESTED UNDER SUBSISTENCE REGULATIONS.**

D	No. of Household Anglers	No. of Household Trips	Sum of Each Household Angler's Days Fished	King Salmon 28" and over		King Salmon less than 28"		Silver Salmon		Red Salmon		Pink Salmon		Chum Salmon		Dolly Varden		Steelhead Trout		Rainbow Trout		Cutthroat Trout		Brook Trout		Arctic Grayling		Smelt		Halibut		Lingcod		Rockfish		Other (specify)				
				C	A	C	A	C	A	C	A	C	A	C	A	C	A	C	A	C	A	C	A	C	A	C	A	C	A	C	A	C	A	C	A	C	A	C	A	
				U	G	U	G	U	G	U	G	U	G	U	G	U	G	U	G	U	G	U	G	U	G	U	G	U	G	U	G	U	G	U	G	U	G	U	G	U
<b>SITKA AREA</b>																																								
<b>SALTWATER</b>	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼
724 Boat - Sitka Sound (specify)																																								
13 Boat - Silver Bay																																								
850 Boat - Hidden Falls																																								
1053 Shoreline - Sitka Road System																																								
1044 Boat - Outer Coast Kruzof Island																																								
766 Boat - Salisbury Sound																																								
1050 Boat - West Chichagof Island																																								
1046 Boat - Tenakee area																																								
1048 Boat - East side Baranof Island																																								
9991 Other Boat sites (specify)																																								
9992 Other Shoreline sites (specify)																																								
<b>FRESHWATER</b>	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	
186 Baranof lake or stream																																								
8 Eva lake or stream																																								
231 Plotnikof lake or stream																																								
232 Rezanof drainage (lakes, streams)																																								
148 Salmon Lake																																								
14 Sitkoh lake or stream																																								
9994 Other Streams (specify)																																								
9993 Other Lakes (specify)																																								

# Juneau

Area E, Page 13



For map, see page 12.

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

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

Sum of Each Household Angler's Days Fished. Count any part of a day as one whole day. If 2 or more anglers fish the same day, include that day in each angler's sum. Example: If 2 household anglers fished the same day, Sum of Each Household Angler's Days Fished = 2.

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

DO NOT INCLUDE FISH HARVESTED UNDER SUBSISTENCE REGULATIONS.

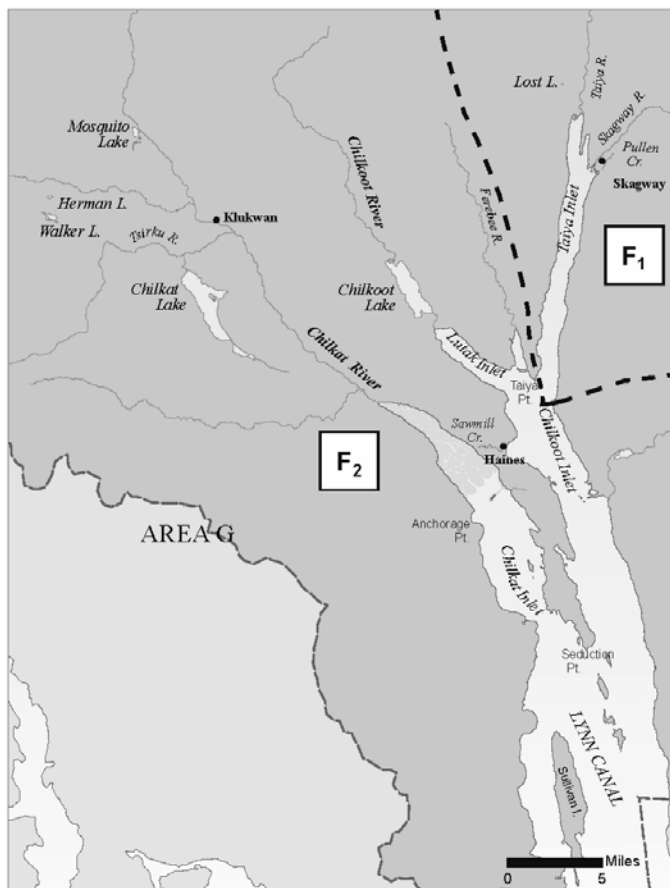
E	No. of Household Anglers	No. of Household Trips	Sum of Each Household Angler's Days Fished	King Salmon 28" and over		King Salmon less than 28"		Silver Salmon		Land-locked Kings, Silvers		Red Salmon	Pink Salmon	Chum Salmon	Dolly Varden	Steel-head Trout	Rainbow Trout	Cut-throat Trout	Smelt	Halibut	Lingcod	Pacific Cod	Rockfish	Other (specify)	
				C AUG HHT	K REPT	C AUG HHT	K REPT	C AUG HHT	K REPT	C AUG HHT	K REPT	C AUG HHT	K REPT	C AUG HHT	K REPT	C AUG HHT	K REPT	C AUG HHT	K REPT	C AUG HHT	K REPT	C AUG HHT	K REPT	C AUG HHT	K REPT
JUNEAU AREA																									
SALTWATER	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼
956 Boat - Terminal Harvest Area (THA)*†																									
1000 Boat - Saltwater near Juneau ( Lower Lynn Canal to Pt. Couverden, Favorite Channel, and upper Stephens Passage to Doty Cove, excluding THA)																									
754 Boat - Lower Stephens Passage area (south of Doty Cove)																									
758 Boat - Angoon Area																									
923 Shoreline - Auke Creek mouth																									
939 Shoreline - Macaulay Hatchery																									
3 Shoreline - Other Juneau Road system																									
9991 Other Boat sites (specify)																									
9992 Other Shoreline sites (specify)																									
FRESHWATER	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼
143 Fish Creek (Douglas Island)																									
175 Peterson Creek and Salt Chuck																									
211 Twin Lakes																									
168 Montana Creek including mouth																									
213 Cowee Creek (near Echo Cove)																									
6 Other Juneau Road System																									
9 Hasselborg Lake																									
11 Turner Lake																									
9994 Other Streams (specify)																									
9993 Other Lakes (specify)																									

\* Described as marine waters east of a line from Pt. Louisa to the eastern shore of Portland Island, to the north tip of Outer Point on Douglas Island and the waters west of Dupont. See map page 12.

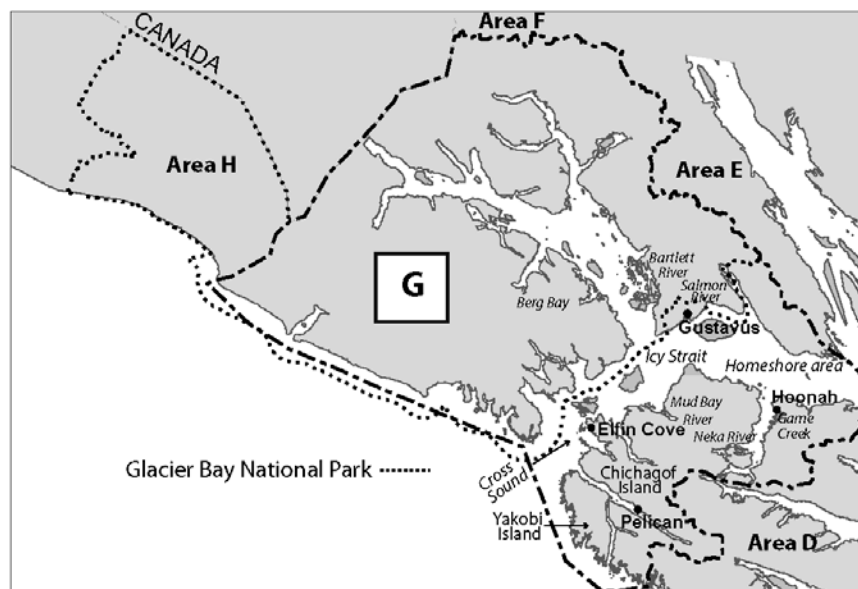
† A terminal harvest area is where associated boundaries and liberalized harvest limits or methods and means are established by emergency order.

## Area F1 Page 15

## Area F2 Page 15



## Area G Page 16



## Area H Page 17



For map, see page 14.

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

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

Sum of Each Household Angler's Days Fished. Count any part of a day as one whole day. If 2 or more anglers fish the same day, include that day in each angler's sum. Example: If 2 household anglers fished the same day. Sum of Each Household Angler's Days Fished = 2.

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

DO NOT INCLUDE FISH HARVESTED UNDER SUBSISTENCE REGULATIONS.

F1	No. of Household Anglers	No. of Household Trips	Sum of Each Household Angler's Days Fished	King Salmon 28" and over	King Salmon less than 28"	Silver Salmon	Red Salmon	Pink Salmon	Chum Salmon	Dolly Varden	Steel-head Trout	Rainbow Trout	Cut-throat Trout	Brook Trout	Arctic Grayling	Halibut	Lingcod	Pacific Cod	Rockfish	Other (specify)
				CAUGHT	KEPT	CAUGHT	KEPT	CAUGHT	KEPT	CAUGHT	KEPT	CAUGHT	KEPT	CAUGHT	KEPT	CAUGHT	KEPT	CAUGHT	KEPT	CAUGHT
<b>SKAGWAY AREA</b>																				
SALTWATER	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼
736 Boat - Taiya Inlet																				
9991 Other Boat sites (specify)																				
FRESHWATER	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼
121 Pullen Creek and Pond																				
9994 Other Skagway Area streams (specify)																				
9993 Other Skagway Area lakes (specify)																				
<b>F2</b>																				
<b>HAINES AREA</b>																				
SALTWATER	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼
732 Boat - Chilkoot Inlet																				
730 Boat - Chilkat Inlet																				
9991 Other Boat sites (specify)																				
9992 Other Shoreline sites (specify)																				
FRESHWATER	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼
3 Chilkoot River																				
5 Chilkoot Lake																				
107 Chilkat River																				
130 Chilkat Lake																				
9994 Other Haines Area streams (specify)																				
9993 Other Haines Area lakes (specify)																				



For map, see page 14.

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

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

**Sum of Each Household Angler's Days Fished.** Count any part of a day as one whole day. If 2 or more anglers fish the same day, include that day in each angler's sum. Example: If 2 household anglers fished the same day, Sum of Each Household Angler's Days Fished = 2.

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

DO NOT INCLUDE FISH HARVESTED UNDER SUBSISTENCE REGULATIONS.

G  GLACIER BAY AREA		No. of Household Anglers	No. of Household Trips	Sum of Each Household Angler's Days Fished	King Salmon 28" and over		King Salmon less than 28"		Silver Salmon		Red Salmon		Pink Salmon		Chum Salmon		Dolly Varden		Steelhead Trout		Rainbow Trout		Cutthroat Trout		Smelt		Halibut		Lingcod		Pacific Cod		Rockfish		Other (specify)	
					C	K	C	K	C	K	C	K	C	K	C	K	C	K	C	K	C	K	C	K	C	K	C	K	C	K	C	K	C	K	C	K
					U	E	U	E	U	E	U	E	U	E	U	E	U	E	U	E	U	E	U	E	U	E	U	E	U	E	U	E	U	E	U	E
SALTWATER		▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼
736	Boat - Glacier Bay proper (inside Glacier Bay National Park)*																																			
972	Boat - Glacier Bay National Park (NOT within Glacier Bay proper)*																																			
968	Boat - Icy Strait (NOT within Glacier Bay National Park)																																			
970	Boat - Cross Sound (NOT within Glacier Bay National Park)																																			
800	Boat - Outer coast Yakobi Island																																			
802	Boat - Homeshore area																																			
740	Boat - Gustavus area																																			
908	Boat - Hoonah area																																			
804	Boat - Northern Chichagof Island																																			
769	Shoreline - Berg Bay																																			
9991	Other Boat sites (specify)																																			
9992	Other Shoreline sites (specify)																																			
FRESHWATER		▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	
110	Salmon River																																			
105	Bartlett River																																			
127	Mud Bay River																																			
128	Game Creek																																			
129	Neka River																																			
9994	Other Streams (specify)																																			
9993	Other Lakes (specify)																																			

\* Glacier Bay proper is described as all marine contiguous water inside or north of a line from Pt. Carolus and Pt. Gustavus.

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

**Sum of Each Household Angler's Days Fished.** Count any part of a day as one whole day. If 2 or more anglers fish the same day, include that day in each angler's sum. Example: If 2 household anglers fished the same day, Sum of Each Household Angler's Days Fished = 2.

DO NOT INCLUDE FISH HARVESTED UNDER SUBSISTENCE REGULATIONS.

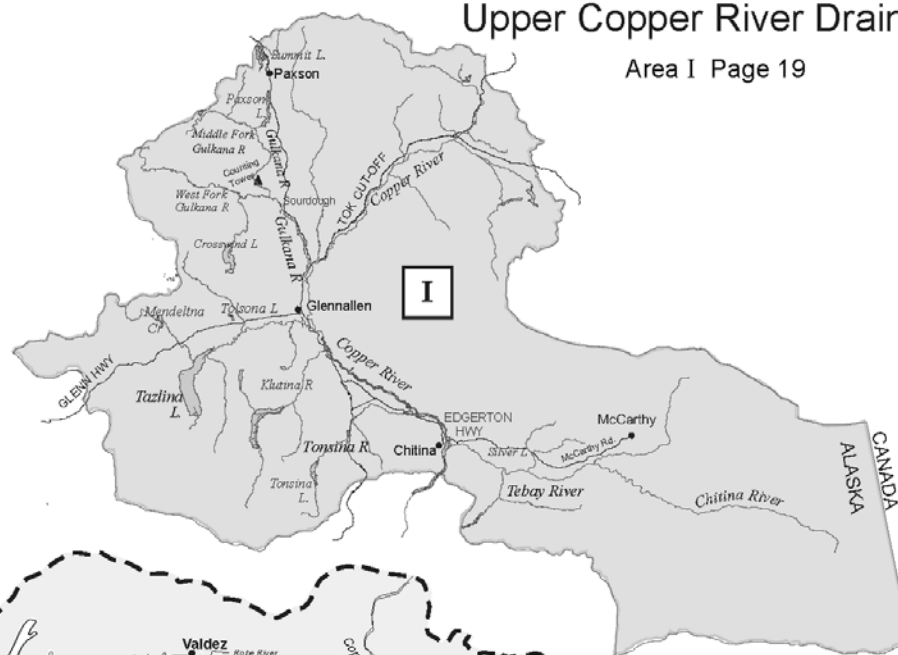
H		No. of Household Anglers	No. of Household Trips	Sum of Each Household Angler's Days Fished	Large King Salmon*		Small King Salmon*		Silver Salmon	Red Salmon	Pink Salmon	Chum Salmon	Dolly Varden	Steelhead Trout	Rainbow Trout	Cutthroat Trout	Northern Pike	Smelt	Halibut	Lingcod	Pacific Cod	Rockfish	Other (specify)
					C A U G H T	K E P T	C A U G H T	K E P T	C A U G H T	K E P T	C A U G H T	K E P T	C A U G H T	K E P T	C A U G H T	K E P T	C A U G H T	K E P T	C A U G H T	K E P T	C A U G H T	K E P T	C A U G H T
YAKUTAT AREA																							
SALTWATER		▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼
724	Boat - Yakutat Bay														/	/	/						
750	Boat - Ankau Lagoon														/	/	/						
725	Shoreline - Yakutat Bay														/	/	/						
751	Shoreline - Ankau Lagoon														/	/	/						
9991	Other Boat sites (specify)														/	/	/						
															/	/	/						
															/	/	/						
9992	Other Shoreline sites (specify)														/	/	/						
															/	/	/						
															/	/	/						
FRESHWATER		▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼
135	East Alsek River																		/	/	/	/	/
117	Itallo River																		/	/	/	/	/
120	Lost River																		/	/	/	/	/
148	Situk River, above weir*																		/	/	/	/	/
149	Situk River, below weir*																		/	/	/	/	/
134	Tsiu River																		/	/	/	/	/
9994	Other Streams (specify)																		/	/	/	/	/
																			/	/	/	/	/
9993	Other Lakes (specify)																		/	/	/	/	/
																			/	/	/	/	/

**Saltwater:** "Large" King Salmon are 28 inches and over; "Small" King Salmon are under 28 inches;  
**Freshwater:** "Large" King Salmon are 20 inches and over; "Small" King Salmon are under 20 inches.

17

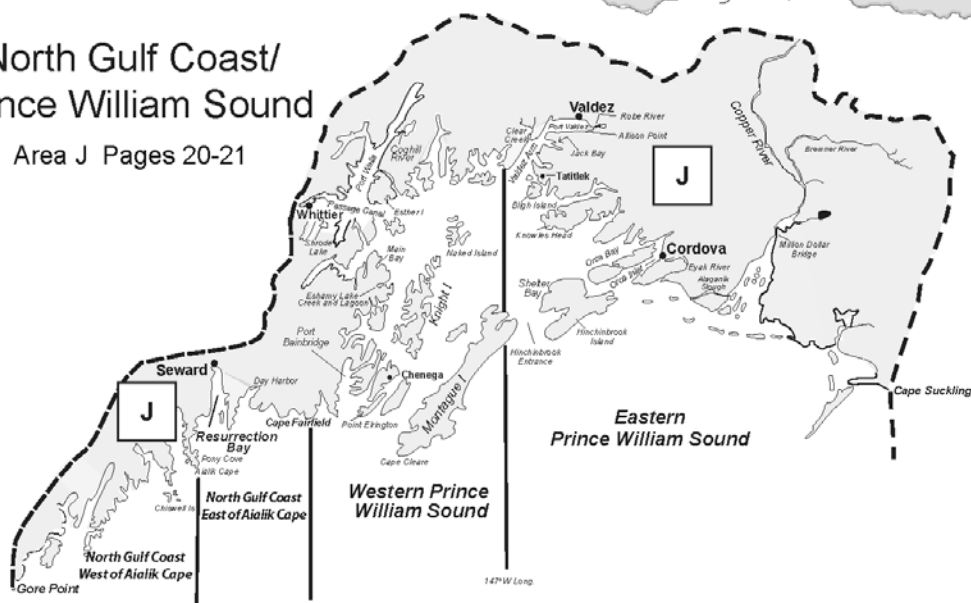
## Upper Copper River Drainage

Area I Page 19



## North Gulf Coast/ Prince William Sound

Area J Pages 20-21



For map, see page 18.

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

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

Sum of Each Household Angler's Days Fished. Count any part of a day as one whole day. If 2 or more anglers fish the same day, include that day in each angler's sum. Example: If 2 household anglers fished the same day, Sum of Each Household Angler's Days Fished = 2.

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

DO NOT INCLUDE FISH HARVESTED UNDER SUBSISTENCE REGULATIONS.

I	No. of House- hold Anglers	No. of House- hold Trips	Sum of Each House- hold Angler's Days Fished	Sea-run King Salmon 20" or longer		Sea-run King Salmon less than 20"		Sea-run Silver Salmon		Land-locked Kings, Silvers		Red Salmon		Lake Trout		Dolly Varden/ Arctic Char		Steel-head Trout		Rainbow Trout		Arctic Grayling		Whitefish		Burbot		Other (specify)	
				C	K	C	K	C	K	C	K	C	K	C	K	C	K	C	K	C	K	C	K	C	K	C	K	C	K
				A	U	A	U	A	U	A	U	A	U	A	U	A	U	A	U	A	U	A	U	A	U	A	U	A	U
UPPER COPPER RIVER DRAINAGE Sportfishing																													
FRESHWATER	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	
8 Crosswind Lake																													
650 Gulkana River (above Paxson Lake)																													
501 Gulkana River (Paxson L outlet to counting tower)																													
502 Gulkana River (Counting tower to mouth West Fork)																													
600 Gulkana R (West Fork mouth to Richardson Hwy)																													
16 Gulkana River (Richardson Hwy to Copper River)																													
371 Middle Fork (Gulkana River tributary)																													
372 West Fork (Gulkana River tributary)																													
416 Klutina River																													
212 Mendeltna Creek																													
13 Paxson Lake																													
4 Silver Lake																													
14 Summit Lake (near Paxson)																													
398 Tolsona Lake																													
287 Tonsina River																													
9994 Other Streams (specify)																													
9993 Other Lakes (specify)																													

I <sup>1</sup>	No. of Household Anglers	No. of Household Trips	Sum of Each Household Angler's Days Fished	King Salmon	Silver Salmon	Red Salmon	Other (specify)
K E P T				K E P T	K E P T	K E P T	
UPPER COPPER RIVER DRAINAGE Personal Use Dipnetting (Do not include any fishwheel or subsistence dipnetting)							
PERSONAL USE DIPNET FISHERIES	▼	▼	▼	▼	▼	▼	▼
9010 Copper River dipnet (near Chitina)							

For map, see page 18.

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

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

Sum of Each Household Angler's Days Fished. Count any part of a day as one whole day. If 2 or more anglers fish the same day, include that day in each angler's sum. Example: If 2 household anglers fished the same day, Sum of Each Household Angler's Days Fished = 2.

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

DO NOT INCLUDE FISH HARVESTED UNDER SUBSISTENCE REGULATIONS.

J	No. of Household Anglers	No. of Household Trips	Sum of Each Household Angler's Days Fished	King Salmon 20" or longer	King Salmon less than 20"	Silver Salmon	Red Salmon	Pink Salmon	Chum Salmon	Dolly Varden/ Arctic Char	Steelhead Trout	Cutthroat Trout	Halibut	Shark	Rockfish	Lingcod	Pacific Cod	Shrimp (Gallons)	Other (specify)	
				C A U G H T	K E E P T	C A U G H T	K E E P T	C A U G H T	K E E P T	C A U G H T	K E E P T	C A U G H T	K E E P T	C A U G H T	K E E P T	C A U G H T	K E E P T	C A U G H T	K E E P T	C A U G H T
<b>NORTH GULF COAST/ PRINCE WILLIAM SOUND</b> <b>Saltwater Fishing from a Boat</b>																				
Boat Trip ENDED in SEWARD. Fish were caught in the site indicated below:																				
1101	Resurrection Bay																			
1105	North Gulf Coast West of Aialik Cape																			
1106	North Gulf Coast East of Aialik Cape																			
1103	Western Prince William Sound																			
1104	Other Boat site (specify)																			
Boat Trip ENDED in WHITTIER, CHENEGA, or other site in western PRINCE WILLIAM SOUND. Fish were caught in the site indicated below:																				
1201	Western Prince William Sound																			
1202	Eastern Prince William Sound																			
1203	Other Boat site (specify)																			
Boat Trip ENDED in VALDEZ. Fish were caught in the site indicated below:																				
1301	Western Prince William Sound																			
1302	Eastern Prince William Sound																			
1305	Valdez Arm																			
1303	Other Boat site (specify)																			
Boat Trip ENDED in CORDOVA, or other site in eastern PRINCE WILLIAM SOUND. Fish were caught in the site indicated below:																				
1401	Western Prince William Sound																			
1402	Eastern Prince William Sound																			
1403	Other Boat site (specify)																			
Boat Trip ENDED in location OTHER than those listed above. Fish were caught in the site indicated below:																				
9991	Other site (specify)																			

Please note: North Gulf Coast/Prince William Sound is continued on next page.

For map, see page 18.

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

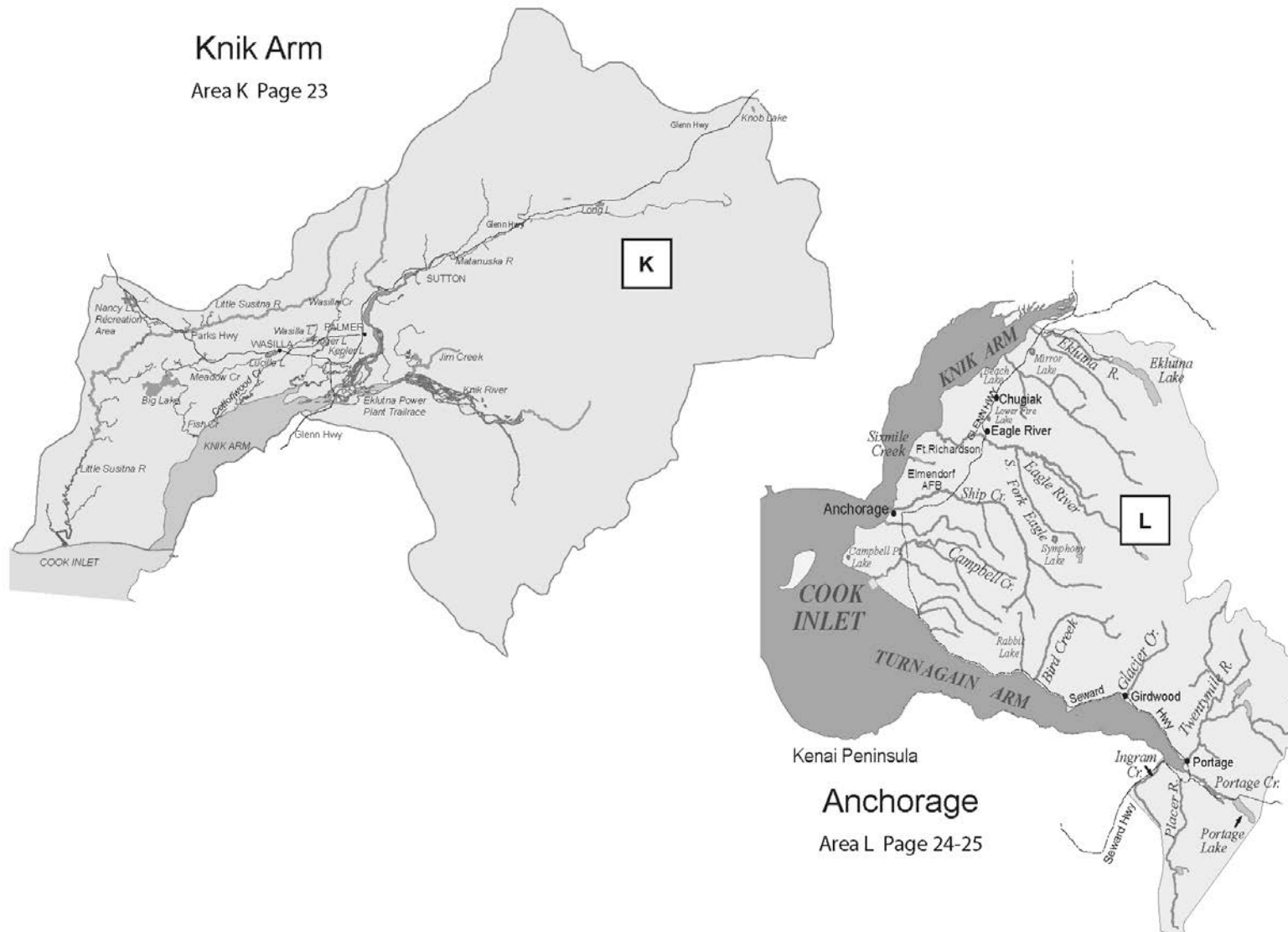
Number of Household Trips (a trip, which may last one or more days, is a visit to a fishing site).

Sum of Each Household Angler's Days Fished. Count any part of a day as one whole day. If 2 or more anglers fish the same day, include that day in each angler's sum. Example: If 2 household anglers fished the same day, Sum of Each Household Angler's Days Fished = 2.

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

DO NOT INCLUDE FISH HARVESTED UNDER SUBSISTENCE REGULATIONS.

J	No. of Household Anglers	No. of Household Trips	Sum of Each Household Angler's Days Fished	King Salmon 20" or longer	King Salmon less than 20"	Silver Salmon	Red Salmon	Pink Salmon	Chum Salmon	Dolly Varden/ Arctic Char	Steelhead Trout	Rainbow Trout	Cutthroat Trout	Arctic Grayling	Halibut	Shark	Rockfish	Lingcod	Hard Shell Clams (gallons)	Shrimp (gallons)	Other (specify)			
				C	A	K	C	A	C	K	C	K	C	K	C	K	C	K	C	K	C	K	C	K
				U	G	H	U	G	U	G	U	G	U	G	U	G	U	G	U	G	U	G	U	G
<b>NORTH GULF COAST/ PRINCE WILLIAM SOUND</b>																								
<b>SALTWATER FISHING FROM SHORE</b>																								
727	Shoreline - Valdez Road System																							
831	Shoreline - Allison Point																							
747	Shoreline - Remainder of Valdez Arm																							
1008	Shoreline - Resurrection Bay (Seward)																							
759	Shoreline - Whittier, Passage Canal																							
729	Shoreline - Orca Inlet (Cordova)																							
9992	Other Shoreline site (specify)																							
<b>FRESHWATER</b>																								
5	Eyak River																							
307	Eshamy Lake, Creek & Lagoon																							
7	Coghill River																							
114	Alaganik Slough																							
222	Robe River																							
308	Clear Creek																							
12	Shrode Lake																							
9994	Other Streams (specify)																							
9993	Other Lakes (specify)																							





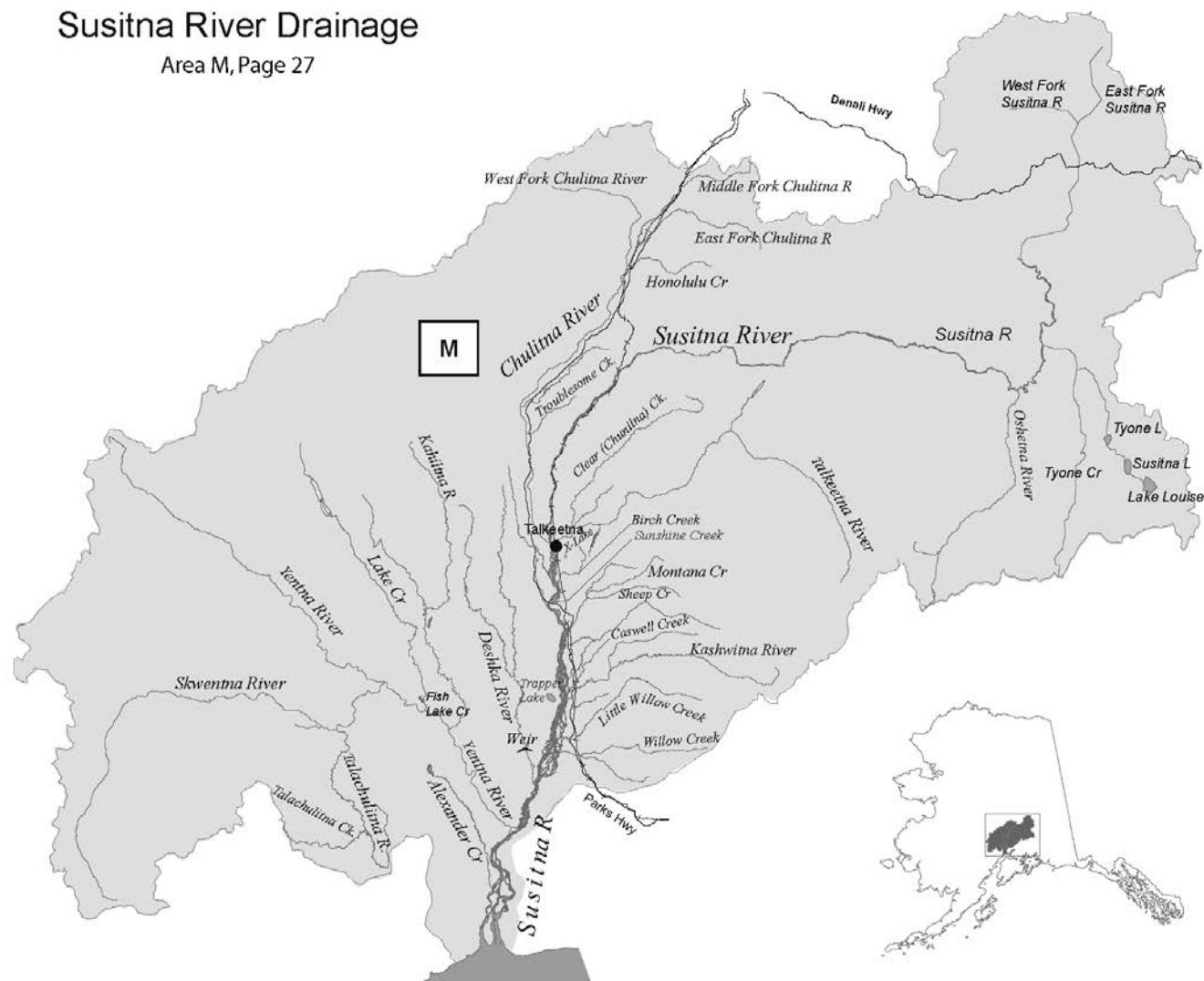






## Susitna River Drainage

Area M, Page 27



For map, see page 26.

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

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

Sum of Each Household Angler's Days Fished. Count any part of a day as one whole day. If 2 or more anglers fish the same day, include that day in each angler's sum. Example: If 2 household anglers fished the same day, Sum of Each Household Angler's Days Fished = 2.

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

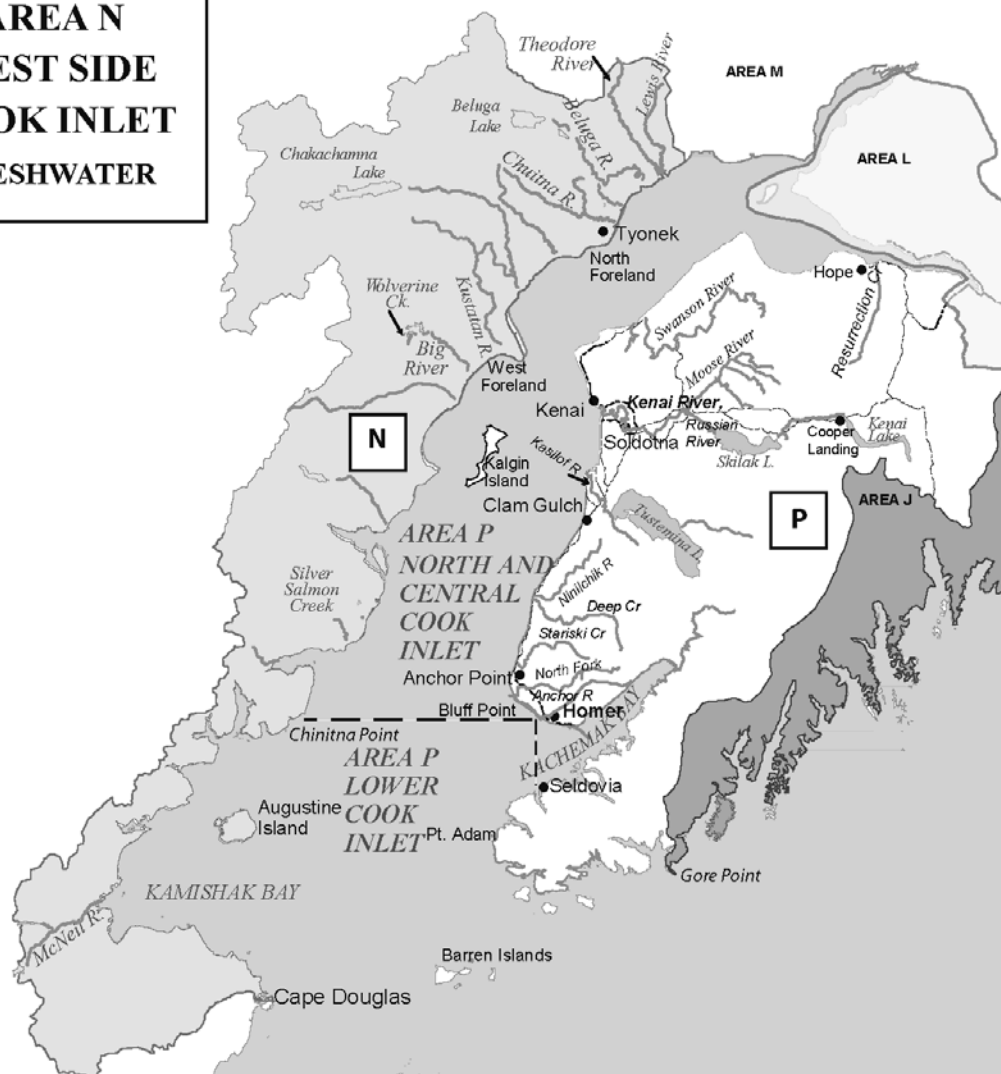
**DO NOT INCLUDE FISH HARVESTED UNDER SUBSISTENCE REGULATIONS.**

M	INCLUDE FISH HARVESTED UNDER SUBSISTENCE REGULATIONS																																
	No. of Household Anglers	No. of Household Trips	Sum of Each Household Angler's Days Fished	Sea-run King Salmon 20" or longer		Sea-run King Salmon less than 20"		Sea-run Silver Salmon		Land-locked Kings, Silvers		Red Salmon		Pink Salmon		Chum Salmon		Lake Trout		Dolly Varden/ Arctic Char		Rainbow Trout		Arctic Grayling		Whitefish		Northern Pike		Burbot		Other (specify)	
				C A U G H T	K E P T	C A U G H T	K E P T	C A U G H T	K E P T	C A U G H T	K E P T	C A U G H T	K E P T	C A U G H T	K E P T	C A U G H T	K E P T	C A U G H T	K E P T	C A U G H T	K E P T	C A U G H T	K E P T	C A U G H T	K E P T	C A U G H T	K E P T	C A U G H T	K E P T	C A U G H T	K E P T	C A U G H T	K E P T
SUSITNA RIVER DRAINAGE																																	
FRESHWATER	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼
1117 Alexander Creek																																	
1118 Alexander Lake																																	
117 Birch Creek																																	
5 Caswell Creek																																	
8 Clear (Chunilna) Creek																																	
1347 Deshka River above weir (above river mile 7)																																	
1348 Deshka River below weir (below river mile 7)																																	
1171 Fish Lake Cr & Fish Lakes (Yentna drainage)																																	
138 Goose Creek																																	
143 Kashwitna River																																	
1004 Lake Creek																																	
3010 Lake Louise																																	
10 Little Willow Creek																																	
6 Montana Creek																																	
9 Sheep Creek																																	
1239 Skwentna River																																	
7 Sunshine Creek																																	
3011 Susitna Lake																																	
1251 Susitna River																																	
1007 Talachulitna River																																	
170 Talkeetna River																																	
1262 Trapper Lake																																	
181 Troublesome Creek																																	
3295 Tyone Creek																																	
4 Willow Creek																																	
1277 Yentna River																																	
9993 Other Lakes (specify):																																	
9994 Other Streams (specify):																																	

**AREA N**  
**WEST SIDE**  
**COOK INLET**  
**FRESHWATER**

**AREA P**  
**KENAI PENINSULA/**  
**COOK INLET**  
**FOR MAP OF KENAI RIVER**  
**SEE PAGE 32**

*(Does NOT include Resurrection Bay; see Page 21, area J).*



For map, see page 28.

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

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

Sum of Each Household Angler's Days Fished. Count any part of a day as one whole day. If 2 or more anglers fish the same day, include that day in each angler's sum. Example: If 2 household anglers fished the same day, Sum of Each Household Angler's Days Fished = 2.

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

DO NOT INCLUDE FISH HARVESTED UNDER SUBSISTENCE REGULATIONS.

N	No. of Household Anglers	No. of Household Trips	Sum of Each Household Angler's Days Fished	King Salmon 20" or longer	King Salmon less than 20"	Silver Salmon	Red Salmon	Pink Salmon	Chum Salmon	Lake Trout	Dolly Varden/ Arctic Char	Rainbow Trout	Arctic Grayling	Whitefish	Northern Pike	Burbot	Smelt	Other (specify)	
				CAUGHT	KEPT	CAUGHT	KEPT	CAUGHT	KEPT	CAUGHT	KEPT	CAUGHT	KEPT	CAUGHT	KEPT	CAUGHT	KEPT	CAUGHT	KEPT
<b>WEST SIDE COOK INLET AREA Sportfishing</b>																			
SALTWATER	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼
ALL COOK INLET SALTWATER FISHING SHOULD BE REPORTED TO AREAS P <sub>1</sub> AND P <sub>2</sub> (SEE PAGE 30).																			
FRESHWATER	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼
<b>FRESHWATER NORTH OF NORTH FORELAND FISHING SITES</b>																			
8 Chuitna River																			
10 Lewis River																			
9 Theodore River																			
332 Other sites (specify)																			
<b>FRESHWATER SOUTH OF NORTH FORELAND FISHING SITES</b>																			
186 Kustatan River																			
125 Big River Lakes																			
340 Wolverine Creek (Big R. Lakes)																			
237 Silver Salmon Creek																			
333 Other sites (specify)																			

P <sub>2</sub>	No. of Household Anglers	No. of Household Trips	Sum of Each Household Angler's Days Fished	Hard Shell Clams (Gallons)	Razor Clams (Numbers)	Other Shellfish (specify)
				KEPT	KEPT	KEPT
<b>WEST SIDE COOK INLET AREA Shellfish</b>						
SHELLFISH	▼	▼	▼	▼	▼	▼
16 Polly Creek Beach/Crescent R Bar						
700 Shellfish, north of Chinitna Point						
710 Shellfish, south of Chinitna Point						
1004 Other West Cook Inlet shellfish sites (specify)						

P <sub>2</sub>	No. of Household Anglers	No. of Household Trips	Sum of Each Household Angler's Days Fished	Hard Shell Clams (Gallons)	Razor Clams (Numbers)	Tanner Crab	Other Shellfish (specify)
				KEPT	KEPT	KEPT	
<b>EAST SIDE COOK INLET AREA Shellfish</b>							
SHELLFISH	▼	▼	▼	▼	▼	▼	▼
797 Kachemak Bay (including Bluff Point to Seldovia)							
1000 Clams: between Anchor Point and Kasilof River (including Whiskey Gulch, Deep Creek, Ninilchik, Clam Gulch and Cohoe beaches)							
953 Lower Cook Inlet sites west of Gore Point and Kachemak Bay (NOT including Kachemak Bay)							
4 Other East Cook Inlet Shellfish sites (specify)							

Please note: Kenai Peninsula/Cook Inlet Area is continued on next page.

For map, see page 28.

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

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

Sum of Each Household Angler's Days Fished. Count any part of a day as one whole day. If 2 or more anglers fish the same day, include that day in each angler's sum: If 2 household anglers fished the same day, Sum of Each Household Angler's Days Fished = 2.

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

DO NOT INCLUDE FISH HARVESTED UNDER SUBSISTENCE REGULATIONS.

P <sub>1,6</sub> NORTHERN and CENTRAL COOK INLET SALTWATER	No. of Household Anglers	No. of Household Trips	Sum of Each Household Angler's Days Fished	King Salmon through June 24	King Salmon after June 24	Silver Salmon	Red Salmon	Pink Salmon	Chum Salmon	Dolly Varden/ Arctic Char	Steel-head Trout	Smelt	Halibut	Shark	Rockfish	Lingcod	Pacific Cod	Other (specify)			
				CAUGHT	KEPT	CAUGHT	KEPT	CAUGHT	KEPT	CAUGHT	KEPT	CAUGHT	KEPT	CAUGHT	KEPT	CAUGHT	KEPT	CAUGHT	KEPT	CAUGHT	KEPT
CHARTER BOAT SALTWATER (P6)	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼		
980 Cook Inlet area <u>north</u> of Bluff Point including saltwaters by Anchor River, Whiskey Gulch, Deep Creek and Ninilchik River; and West side Cook Inlet north of Chinitna Point																					
PRIVATE BOAT SALTWATER (P1)	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼		
980 Cook Inlet area <u>north</u> of Bluff Point including saltwaters by Anchor River, Whiskey Gulch, Deep Creek and Ninilchik River; and West side Cook Inlet north of Chinitna Point																					
FISHING FROM SHORE SALTWATER (P1)	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼		
981 Shoreline saltwater fishing north of Bluff Point (specify)																					
P <sub>1,6</sub> LOWER COOK INLET AND KACHEMAK BAY SALTWATER	No. of Household Anglers	No. of Household Trips	Sum of Each Household Angler's Days Fished	King Salmon Summer Fishery*	King Salmon Winter Fishery**	Silver Salmon	Red Salmon	Pink Salmon	Chum Salmon	Dolly Varden/ Arctic Char	Steel-head Trout	Smelt	Halibut	Shark	Rockfish	Lingcod	Pacific Cod	Other (specify)			
	CAUGHT	KEPT	CAUGHT	KEPT	CAUGHT	KEPT	CAUGHT	KEPT	CAUGHT	KEPT	CAUGHT	KEPT	CAUGHT	KEPT	CAUGHT	KEPT	CAUGHT	KEPT	CAUGHT	KEPT	
CHARTER BOAT SALTWATER (P6)	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼		
796 Kachemak Bay (including Bluff Point area to Seldovia)																					
952 Lower Cook Inlet sites west of Gore Point and Kachemak Bay (not including Kachemak Bay)																					
PRIVATE BOAT SALTWATER (P1)	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼		
796 Kachemak Bay (including Bluff Point area to Seldovia)																					
952 Lower Cook Inlet sites west of Gore Point and Kachemak Bay (not including Kachemak Bay)																					
FISHING FROM SHORE SALTWATER (P1)	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼		
823 Homer Spit Shoreline																					
991 Other Shoreline saltwater fishing sites (specify)																					

\* Summer king salmon fishery occurs April 1 through September 30.

\*\* Winter king salmon fishery occurs January 1 through March 31 and October 1 through December 31.

Please note: Kenai Peninsula Area Freshwater is on next page.

For map, see page 28.

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

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

For Kenai and Kasilof rivers sportfishing, see pages 32-33.

Sum of Each Household Angler's Days Fished. Count any part of a day as one whole day. If 2 or more anglers fish the same day, include that day in each angler's sum. Example: If 2 household anglers fished the same day, Sum of Each Household Angler's Days Fished = 2.

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

**DO NOT INCLUDE FISH HARVESTED UNDER SUBSISTENCE REGULATIONS.**

P <sub>0</sub>	No. of Household Anglers	No. of Household Trips	Sum of Each Household Angler's Days Fished	Sea-run King Salmon 20" or longer	Sea-run King Salmon less than 20"	Sea-run Silver Salmon	Land-locked Kings, Silvers	Red Salmon* prior to and inc. July 15	Red Salmon* after July 15	Red Salmon	Pink Salmon	Chum Salmon	Lake Trout	Dolly Varden/ Arctic Char	Steel-head Trout	Rain-bow Trout	Arctic Gray-ling	White-fish	North-ern Pike	Burbot	Smelt	Other (specify)
				CAUGHT	CAUGHT	CAUGHT	CAUGHT	CAUGHT	CAUGHT	CAUGHT	CAUGHT	CAUGHT	CAUGHT	CAUGHT	CAUGHT	CAUGHT	CAUGHT	CAUGHT	CAUGHT	CAUGHT	CAUGHT	CAUGHT
<b>KENAI PENINSULA FRESHWATER GUIDED AND NONGUIDED</b>																						
OTHER FRESHWATER	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼
5 Anchor River																						
147 Crescent Lake																						
7 Deep Creek																						
12 Hidden Lake																						
6 Ninilchik River																						
218 Quartz Creek																						
261 Resurrection Creek (near Hope)																						
9 Russian River**																						
226 Sixmile Creek Drainage***																						
228 Skilak Lake																						
8 Stariski Creek																						
15 Swan Lake Canoe System																						
334 Swanson River																						
14 Swanson River Canoe Route Lakes																						
244 Tustumena Lake																						
9994 Other Streams (specify)																						
9993 Other Lakes (specify)																						

\* Red Salmon dates only apply to Russian River; record all other red salmon in next column.

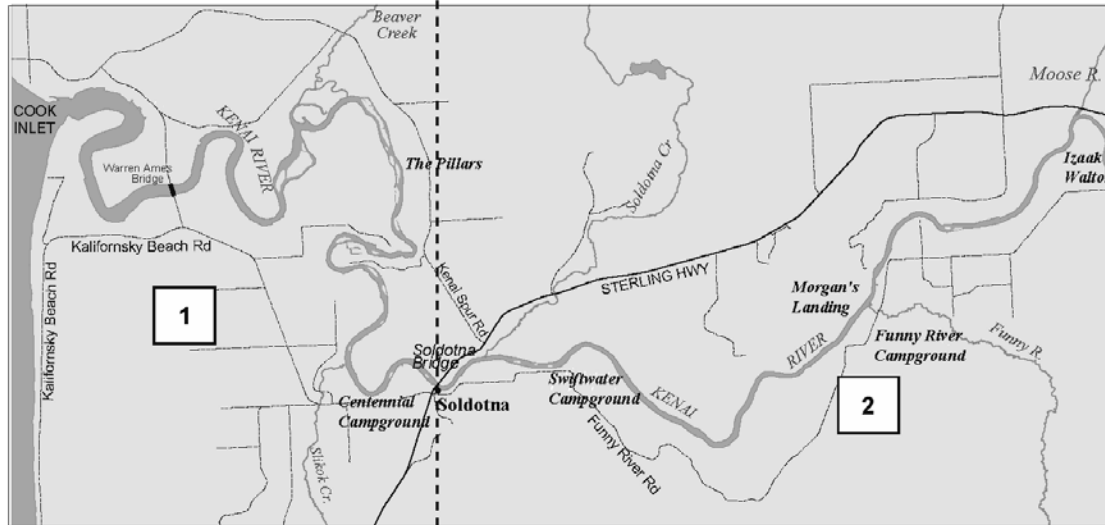
\*\* Include all fishing in the 1,800 yard section of the Kenai River immediately downstream from the Russian River.

\*\*\* Including Sixmile, Granite, East Fork and Canyon Creeks.

P <sub>3</sub>	No. of Household Anglers	No. of Household Trips	Sum of Household Angler's Days Fished	Sea-run King Salmon	Sea-run Silver Salmon	Red Salmon	Pink Salmon	Chum Salmon	Other (specify)
<b>KENAI PENINSULA AREA Dipnet/Gillnet Fishing</b>				CAUGHT	CAUGHT	CAUGHT	CAUGHT	CAUGHT	CAUGHT
NET FISHERIES	▼	▼	▼	▼	▼	▼	▼	▼	▼
9001 China Poot (dipnet)									
9002 Kenai River (dipnet)									
9003 Kasilof River (dipnet)									
9007 Kasilof River (gillnet)									

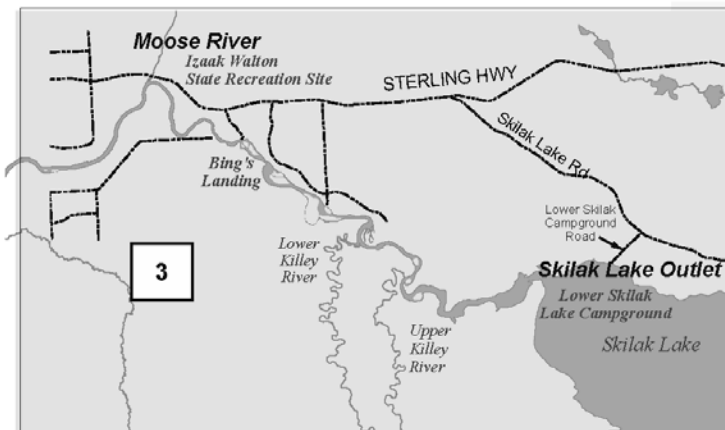


## AREA P KENAI RIVER FISHING SITES

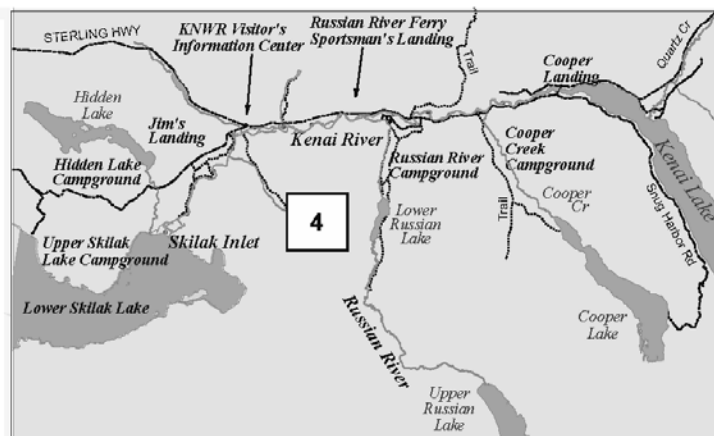


Area Code Letter P  
Site No.1 - Cook Inlet to Soldotna Bridge

Area Code Letter P  
Site No. 2 - Soldotna Bridge to Moose River



Area Code Letter P  
Site No. 3 Kenai River - Moose River to Skilak Outlet



Area Code Letter P  
Site No. 4 Kenai River - Skilak Inlet to Kenai Lake

For map, see page 32.

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

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

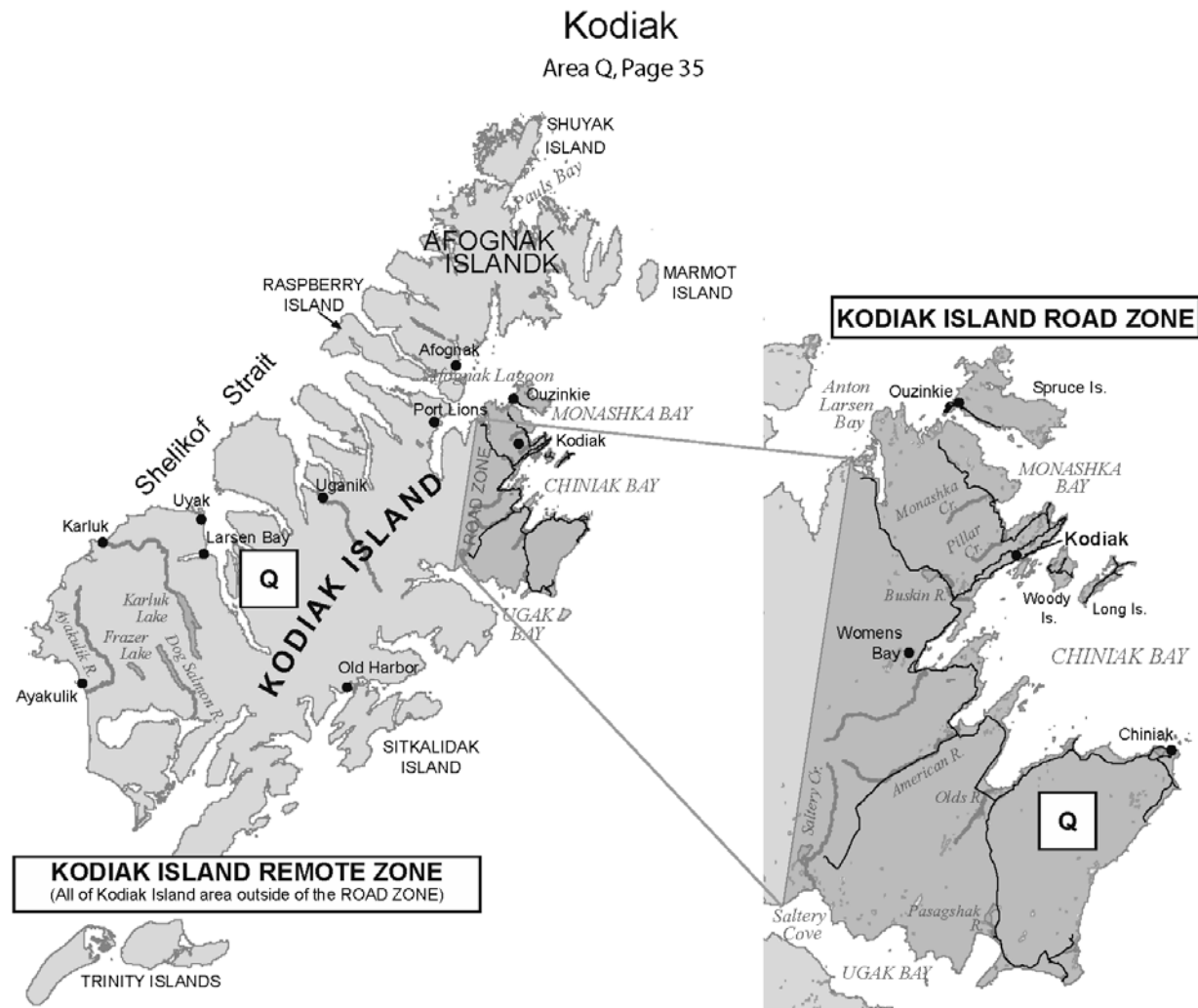
Sum of Each Household Angler's Days Fished. Count any part of a day as one whole day. If 2 or more anglers fish the same day, include that day in each angler's sum. Example: If 2 household anglers fished the same day, Sum of Each Household Angler's Days Fished = 2.

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

DO NOT INCLUDE FISH HARVESTED UNDER SUBSISTENCE REGULATIONS.

P4	No. of House- hold Anglers	No. of House- hold Trips	Sum of Each House- hold Angler's Days Fished	King Salmon prior to July 1		King Salmon after and inc. July 1		Silver Salmon prior to Sept 1		Silver Salmon after and inc. Sept 1		Red Salmon		Pink Salmon		Chum Salmon		Lake Trout		Dolly Varden/ Arctic Char		Steel-head Trout		Rainbow Trout		Arctic Grayling		Whitefish		Northern Pike		Smelt		Other (specify)	
				C	K	C	K	C	K	C	K	C	K	C	K	C	K	C	K	C	K	C	K	C	K	C	K	C	K	C	K	C	K	C	K
				AUG	SEP	AUG	SEP	AUG	SEP	AUG	SEP	AUG	SEP	AUG	SEP	AUG	SEP	AUG	SEP	AUG	SEP	AUG	SEP	AUG	SEP	AUG	SEP	AUG	SEP	AUG	SEP	AUG	SEP	AUG	SEP
KENAI AND KASIOF RIVERS NON-GUIDED																																			
FRESHWATER NON-GUIDED	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼
1 Kenai River - Cook Inlet to Soldotna Bridge																																			
2 Kenai River - Soldotna Bridge to Moose River																																			
3 Kenai River - Moose River to Skilak Outlet																																			
4 Kenai River - Skilak Inlet to Kenai Lake																																			
500 Kasilof River Bank Fishing																																			
600 Kasilof River Boat Fishing																																			

P <sub>5</sub>	No. of House- hold Anglers	No. of House- hold Trips	Sum of Each House- hold Angler's Days Fished	King Salmon prior to July 1		King Salmon after and inc. July 1		Silver Salmon prior to Sept 1		Silver Salmon after and inc. Sept 1		Red Salmon		Pink Salmon		Chum Salmon		Lake Trout		Dolly Varden/ Arctic Char		Steel-head Trout		Rainbow Trout		Arctic Grayling		Whitefish		Northern Pike		Smelt		Other (specify)	
				C	K	C	K	C	K	C	K	C	K	C	K	C	K	C	K	C	K	C	K	C	K	C	K	C	K	C	K	C	K	C	K
				AUG	HT	AUG	HT	AUG	HT	AUG	HT	AUG	HT	AUG	HT	AUG	HT	AUG	HT	AUG	HT	AUG	HT	AUG	HT	AUG	HT	AUG	HT	AUG	HT	AUG	HT	AUG	HT
KENAI AND KASIOF RIVERS GUIDED																																			
FRESHWATER GUIDED				▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	
1	Kenai River - Cook Inlet to Soldotna Bridge																																		
2	Kenai River - Soldotna Bridge to Moose River																																		
3	Kenai River - Moose River to Skilak Outlet																																		
4	Kenai River - Skilak Inlet to Kenai Lake																																		
500	Kasilof River Bank Fishing																																		
600	Kasilof River Boat Fishing																																		



For map, see page 34.

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

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

Sum of Each Household Angler's Days Fished. Count any part of a day as one whole day. If 2 or more anglers fish the same day, include that day in each angler's sum. Example: If 2 household anglers fished the same day, Sum of Each Household Angler's Days Fished = 2.

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

DO NOT INCLUDE FISH HARVESTED UNDER SUBSISTENCE REGULATIONS.

Q	No. of Household Anglers	No. of Household Trips	Sum of Each Household Angler's Days Fished	King Salmon 20" or longer		King Salmon less than 20"		Sea-run Silver Salmon		Land-locked Silvers		Red Salmon	Pink Salmon		Chum Salmon	Dolly Varden/ Arctic Char	Steel-head Trout		Rain-bow Trout		Halibut	Shark	Rock-fish		Lingcod	Pacific Cod		Razor Clams (numbers)	Tanner Crab		Dungeness Crab		Shrimp (gallons)	Other (specify)
				CAUGHT	KEPT	CAUGHT	KEPT	CAUGHT	KEPT	CAUGHT	KEPT		CAUGHT	KEPT			CAUGHT	KEPT	CAUGHT	KEPT			CAUGHT	KEPT		CAUGHT	KEPT		CAUGHT	KEPT	CAUGHT	KEPT		
KODIAK AREA																																		
SALTWATER	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	
736 Boat - Chiniak Bay Area*																																		
800 Boat - Shuyak Area																																		
814 Boat - Afognak Island																																		
812 Boat - Pauls Bay																																		
770 Boat - Uyak Bay																																		
887 Shoreline - Afognak Lagoon (Litnik)																																		
815 Shoreline - Afognak Island (specify)																																		
932 Other Remote Boat sites (specify)																																		
934 Other Roadside Boat sites (specify)**																																		
933 Other Remote Shoreline (specify)																																		
935 Other Roadside Shoreline sites (specify)**																																		
FRESHWATER	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	
114 American River																																		
174 Ayakulik (Red) River																																		
3 Buskin River																																		
277 Karluk Lake and River (above weir***)																																		
278 Karluk R and Lagoon (below weir***)																																		
163 Olds River (or Creek)																																		
275 Pasagshak Drainage																																		
276 Saltery Cove Drainage																																		
108 Roadside Lakes (specify)																																		
109 Lakes (Remote Zone) (specify)																																		
105 Roadside Streams (specify)																																		
106 Other Streams (Remote Zone) (specify)																																		

\* From Cape Greville to Anton Larsen Bay, including Cape Chiniak, Mill Bay, Monashka Bay, Spruce Island and all of Chiniak Bay.

\*\* Includes Narrow Cape, Pasagshak Bay and Saltery Cove areas, and Barry Lagoon.

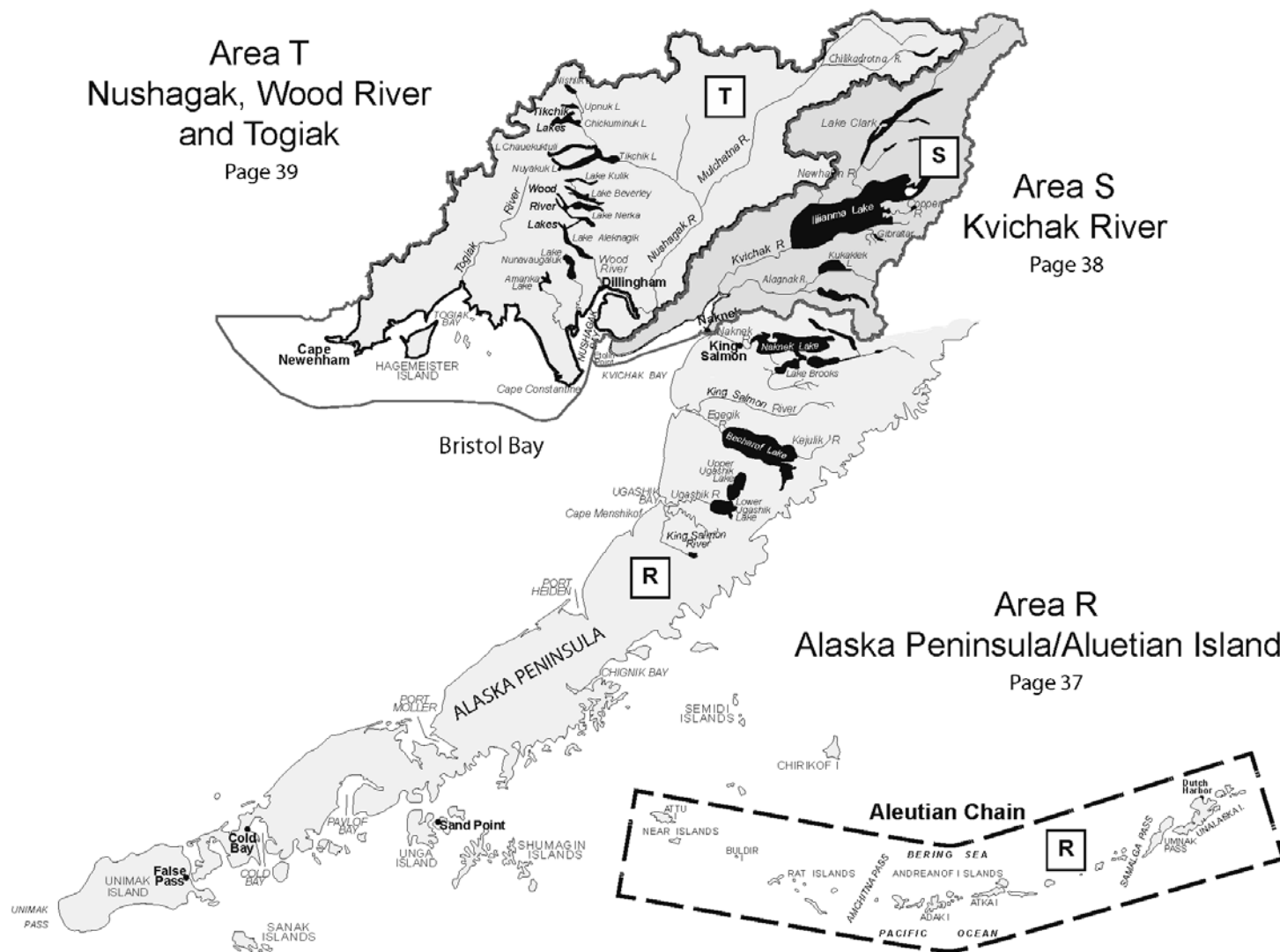
\*\*\* The weir is located on the Karluk River, 0.5 miles upstream of the Lagoon.

## SOUTHWEST ALASKA - AREAS R-T

**Area T**  
Nushagak, Wood River  
and Togiak  
Page 39

**Area S**  
Kvichak River  
Page 38

**Area R**  
Alaska Peninsula/Aluetian Islands  
Page 37



For map, see page 36.

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

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

Sum of Each Household Angler's Days Fished. Count any part of a day as one whole day. If 2 or more anglers fish the same day, include that day in each angler's sum. Example: If 2 household anglers fished the same day, Sum of Each Household Angler's Days Fished = 2.

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

DO NOT INCLUDE FISH HARVESTED UNDER SUBSISTENCE REGULATIONS.

R	No. of House- hold Anglers	No. of House- hold Trips	Sum of Each House- hold Angler's Days Fished	King Salmon 20" or longer	King Salmon less than 20"	Silver Salmon	Red Salmon	Pink Salmon	Chum Salmon	Lake Trout	Dolly Varden/ Arctic Char	Rainbow Trout	Arctic Grayling	Northern Pike	Burbot	Smelt	Halibut	Rockfish	Lingcod	Pacific Cod	Other (specify)	
				C A U G H T	K E E P T	C A U G H T	K E E P T	C A U G H T	K E E P T	C A U G H T	K E E P T	C A U G H T	K E E P T	C A U G H T	K E E P T	C A U G H T	K E E P T	C A U G H T	K E E P T	C A U G H T	K E E P T	C A U G H T
ALASKA PENINSULA/ ALEUTIAN ISLANDS AREA																						
SALTWATER	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼
1 Boat - Cold Bay Area																						
756 Boat - Unalaska Bay																						
900 Boat - Cape Menshikof north to Naknek Bay (specify)*																						
950 Boat - Other Alaska Peninsula (specify)**																						
9991 Boat - Other (specify)																						
9992 Shoreline sites (specify)																						
FRESHWATER	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼
5 Cold Bay Area, including Russel Creek																						
281 Unalaska Bay Streams																						
130 Chignik River																						
11 Ugashik System; Ugashik R. and Upper/Lower Ugashik Lakes																						
12 Becharof System***																						
279 Naknek River downstream section†																						
275 Naknek River upstream section††																						
8 Naknek Lake - Bay of Islands																						
9 Naknek Lake - Other																						
10 Brooks River																						
13 Brooks Lake																						
182 American Creek																						
9994 Other Streams ††† (specify)																						
9993 Other Lakes (specify)																						

\* Includes Ugashik, Egegik, and Naknek bays.

\*\* Any saltwater boat fishing not in Cold Bay or in Unalaska Bay west of Cape Menshikof and Cape Douglas.

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

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

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

††† If King Salmon River, specify location (either near the community of King Salmon, near Egegik Bay, near Ugashik Bay, or near Port Moller).

For map, see page 36.

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

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

Sum of Each Household Angler's Days Fished. Count any part of a day as one whole day. If 2 or more anglers fish the same day, include that day in each angler's sum. Example: If 2 household anglers fished the same day, Sum of Each Household Angler's Days Fished = 2.

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

DO NOT INCLUDE FISH HARVESTED UNDER SUBSISTENCE REGULATIONS.

S	No. of Household Anglers	No. of Household Trips	Sum of Each Household Angler's Days Fished	King Salmon 20" or longer		King Salmon less than 20"		Silver Salmon		Red Salmon		Pink Salmon		Chum Salmon		Lake Trout		Dolly Varden/ Arctic Char		Rainbow Trout		Arctic Grayling		Whitefish		Northern Pike		Burbot		Smelt		Other (specify)	
				C A U G H T	K E E P T	C A U G H T	K E E P T	C A U G H T	K E E P T	C A U G H T	K E E P T	C A U G H T	K E E P T	C A U G H T	K E E P T	C A U G H T	K E E P T	C A U G H T	K E E P T	C A U G H T	K E E P T	C A U G H T	K E E P T	C A U G H T	K E E P T	C A U G H T	K E E P T	C A U G H T	K E E P T	C A U G H T	K E E P T	C A U G H T	K E E P T
<b>KVICHAK RIVER DRAINAGE</b>																																	
<b>SALTWATER</b>	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼
9991 Boat sites (specify)																																	
9992 Shoreline sites (specify)																																	
<b>FRESHWATER</b>	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼
8 Alagnak (Branch) River																																	
141 Battle River																																	
5 Copper River (tributary of Iliamna Lake)																																	
146 Funnel Creek																																	
6 Gibraltar Lake																																	
170 Gibraltar River																																	
125 Iliamna Lake																																	
120 Iliamna River																																	
183 Kukaklek River (Big Ku)																																	
123 Kulik River																																	
3 Kvichak River																																	
9 Lake Clark																																	
134 Moraine Creek																																	
7 Newhalen River																																	
4 Lower Talarik Creek																																	
139 Upper Talarik Creek																																	
9994 Other Streams (specify)																																	
9993 Other Lakes (specify)																																	

For map, see page 36.

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

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

Sum of Each Household Angler's Days Fished. Count any part of a day as one whole day. If 2 or more anglers fish the same day, include that day in each angler's sum. Example: If 2 household anglers fished the same day, Sum of Each Household Angler's Days Fished = 2.

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

DO NOT INCLUDE FISH HARVESTED UNDER SUBSISTENCE REGULATIONS.

T	No. of House- hold Anglers	No. of House- hold Trips	Sum of Each House- hold Angler's Days Fished	King Salmon 20" or longer	King Salmon less than 20"	Silver Salmon	Red Salmon	Pink Salmon	Chum Salmon	Lake Trout	Dolly Varden/ Arctic Char	Rainbow Trout	Arctic Grayling	Whitefish	Northern Pike	Burbot	Smelt	Other (specify)	
NUSHAGAK, WOOD RIVER AND TOGIAK AREA				C A U G H T	K E E P T	C A U G H T	K E E P T	C A U G H T	K E E P T	C A U G H T	K E E P T	C A U G H T	K E E P T	C A U G H T	K E E P T	C A U G H T	K E E P T	C A U G H T	K E E P T
SALTWATER	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼
9991 Boat sites (specify)																			
9992 Shoreline sites (specify)																			
FRESHWATER	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼
207 Nushagak River - Black Point upstream to sonar site (by Portage Creek)*																			
208 Nushagak River - sonar site (by Portage Creek) upstream to outlet of Mulchatna River*																			
190 Nushagak River upstream from outlet of Mulchatna River*																			
3 Remainder of Nushagak System (specify)																			
7 Mulchatna River																			
112 Lake Aleknagik																			
111 Agulowak River																			
128 Agulupak River																			
4 Other Wood River Lakes System**																			
206 Nuyakuk River																			
5 Other Tikchik-Nuyakuk Lake System***																			
6 Togiak River System****																			
9994 Other Streams (specify)																			
9993 Other Lakes (specify)																			

\* Excluding Mulchatna R. and tributaries, Kokwok and Iowitla rivers.

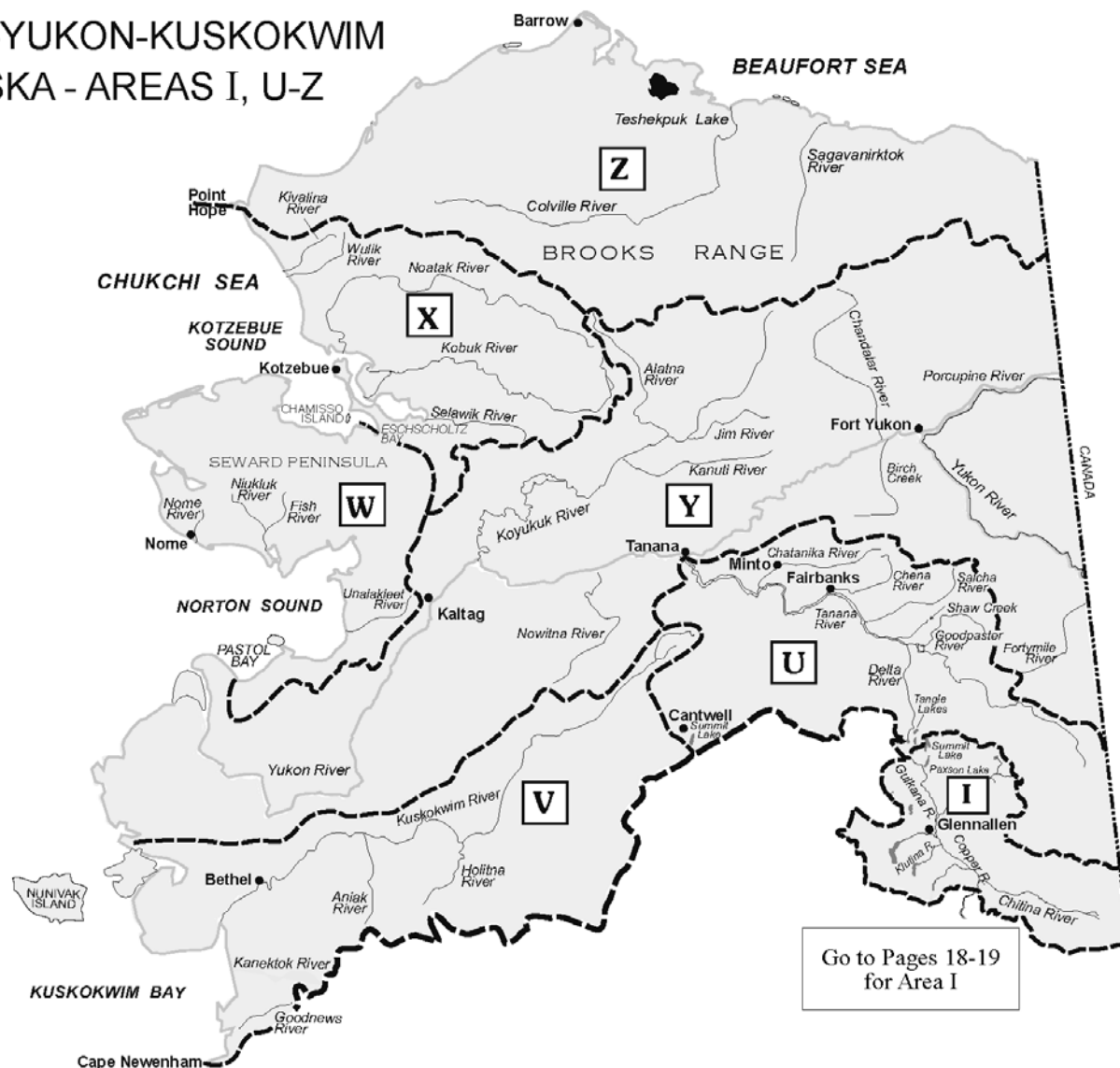
\*\* Including Lakes Nerka, Beverley, and Kulik.

\*\*\* Including Nuyakuk, Tikchik, Chikuminuk, Nishlik, and Upnuk lakes, and Lake Chauekuktuli.

\*\*\*\* Including Togiak River-Lake drainage area.



# ARCTIC-YUKON-KUSKOKWIM ALASKA - AREAS I, U-Z



For map, see page 40.

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

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

Sum of Each Household Angler's Days Fished. Count any part of a day as one whole day. If 2 or more anglers fish the same day, include that day in each angler's sum. Example: If 2 household anglers fished the same day, Sum of Each Household Angler's Days Fished = 2.

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

DO NOT INCLUDE FISH HARVESTED UNDER SUBSISTENCE REGULATIONS.

U	No. of Household Anglers	No. of Household Trips	Sum of Each Household Angler's Days Fished	DO NOT INCLUDE NON-HARVESTED OR NON-SUBSISTENCE SPECIFICATIONS.																																					
				Sea-run King Salmon 20" or longer		Sea-run King Salmon less than 20"		Sea-run Silver Salmon		Chum Salmon		Land-locked Kings, Silvers		Lake Trout		Dolly Varden/ Arctic Char		Rainbow Trout		Arctic Grayling under 12"		Arctic Grayling 12" & over		Least Cisco		Hump-back Whitefish		Round Whitefish		Sheefish		Other Whitefish		Northern Pike less than 30"		Northern Pike over 30"		Burbot		Other (specify)	
				C	A	C	A	C	A	C	A	C	A	C	A	C	A	C	A	C	A	C	A	C	A	C	A	C	A	C	A	C	A	C	A	C	A	C	A		
TANANA RIVER DRAINAGE FRESHWATER STREAMS				U	G	U	G	U	G	U	G	U	G	U	G	U	G	U	G	U	G	U	G	U	G	U	G	U	G	U	G	U	G	U	G	U	G	U	G		
FRESHWATER STREAMS	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼		
137 Brushkana Creek																																									
613 Lower Chatanika R and tributaries (downstream of Elliot Hwy)																																									
614 Upper Chatanika R and tributaries (upstream of Elliot Hwy)																																									
1050 Lower Chena River (including Badger Slough)*																																									
1051 Upper Chena River **																																									
6 Delta Clearwater Creek																																									
17 Delta River (below Tangle Lakes)																																									
8 Goodpaster River																																									
513 Nenana River drainage (not including Brushkana Creek)																																									
319 Piledriver Slough (including Moose Creek)																																									
7 Richardson Clearwater Creek																																									
5 Salcha River																																									
16 Shaw Creek																																									
514 Lower Tanana River downstream from Nenana (mainstem only)																																									
515 Middle Tanana R. between Delta Jct. and Nenana (mainstem only)																																									
516 Upper Tanana River upstream from Delta Jct. (mainstem only)																																									
9994 Other Streams (specify)																																									

\* The lower Chena River and tributaries, from the mouth upstream to the Moose Creek Dam at river mile 45, including all parts of Badger Slough (sometimes called Chena Slough).

\*\* The upper Chena River and tributaries upstream of the Moose Creek Dam at river mile 45.

Page 1 of 2 - Tanana River Drainage is continued on next page.

For map, see page 40.

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

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

Sum of Each Household Angler's Days Fished. Count any part of a day as one whole day. If 2 or more anglers fish the same day, include that day in each angler's sum. Example: If 2 household anglers fished the same day, Sum of Each Household Angler's Days Fished = 2.

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

DO NOT INCLUDE FISH HARVESTED UNDER SUBSISTENCE REGULATIONS.

U	No. of Household Anglers	No. of Household Trips	Sum of Each Household Angler's Days Fished	Sea-run King Salmon 20" or longer		Sea-run King Salmon less than 20"		Sea-run Silver Salmon		Chum Salmon		Land-locked Kings, Silvers		Lake Trout		Dolly Varden/ Arctic Char		Rainbow Trout		Arctic Grayling under 12"		Arctic Grayling 12" & over		Least Cisco		Hump-back Whitefish		Round Whitefish		Sheefish		Other Whitefish		Northern Pike less than 30"		Northern Pike over 30"		Burbot		Other (specify)	
				C A U G H T	K E P T	C A U G H T	K E P T	C A U G H T	K E P T	C A U G H T	K E P T	C A U G H T	K E P T	C A U G H T	K E P T	C A U G H T	K E P T	C A U G H T	K E P T	C A U G H T	K E P T	C A U G H T	K E P T	C A U G H T	K E P T	C A U G H T	K E P T	C A U G H T	K E P T	C A U G H T	K E P T	C A U G H T	K E P T	C A U G H T	K E P T	C A U G H T	K E P T	C A U G H T	K E P T		
TANANA RIVER DRAINAGE LAKES AND PONDS																																									
FRESHWATER LAKES	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	
9 Birch Lake																																									
347 Chena Hot Springs Rd ponds*																																									
18 Chena Lake Recreation Area																																									
584 Coal Mine Road lakes**																																									
408 Dune Lake																																									
163 East Twin Lake																																									
13 Fielding Lake																																									
11 George Lake																																									
189 Harding Lake																																									
201 Koole Lake																																									
583 Meadow Road Lakes***																																									
14 Minto Flats; lakes and rivers of Minto Flats State Game Refuge																																									
10 Quartz Lake																																									
346 Steese ponds ****																																									
15 Tangle Lakes and River †																																									
12 Volkmar Lake																																									
9993 Other Lakes (specify)																																									

\* Ponds along the Chena Hot Springs Road, from mile 30 to mile 50.

\*\* Lakes accessible from the Coal Mine Road, located at Mile 242 Richardson Highway approximately 22 miles south of Delta Junction.

\*\*\* Lakes along the Meadows and Ridge roads in the southern part of the Fort Greely Military Reservation, including Weasel Lake.

\*\*\*\* Ponds along the Steese Highway from mile 30 to mile 40.

† Including Long Tangle, Lower Tangle, Landlocked Tangle, Round Tangle, and Upper Tangle Lakes.

For map, see page 40.

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

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

Sum of Each Household Angler's Days Fished. Count any part of a day as one whole day. If 2 or more anglers fish the same day, include that day in each angler's sum. Example: If 2 household anglers fished the same day, Sum of Each Household Angler's Days Fished = 2.

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

DO NOT INCLUDE FISH HARVESTED UNDER SUBSISTENCE REGULATIONS.

V KUSKOKWIM RIVER/ KUSKOKWIM BAY DRAINAGES	No. of Household Anglers	No. of Household Trips	Sum of Each Household Angler's Days Fished	King Salmon 20" or longer	King Salmon less than 20"	Silver Salmon	Red Salmon	Pink Salmon	Chum Salmon	Lake Trout	Dolly Varden/ Arctic Char	Rainbow Trout	Arctic Grayling	Whitefish	Sheefish	Northern Pike	Burbot	Smelt	Halibut	Other (specify)	
				C A U G H T	K E E P T	C A U G H T	K E E P T	C A U G H T	K E E P T	C A U G H T	K E E P T	C A U G H T	K E E P T	C A U G H T	K E E P T	C A U G H T	K E E P T	C A U G H T	K E E P T	C A U G H T	K E E P T
<b>SALTWATER</b>	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼
9991 Boat sites (specify)																					
9992 Shoreline sites (specify)																					
<b>FRESHWATER</b>	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼
<b>KUSKOKWIM RIVER UPSTREAM OF THE ANIAK RIVER</b>																					
300 Kuskokwim River mainstem, above Aniak River																					
6 Holitna River																					
134 George River																					
301 Other Streams (specify)																					
302 Lakes (specify)																					
<b>KUSKOKWIM RIVER DOWNSTREAM OF THE ANIAK RIVER</b>																					
310 Kuskokwim River mainstem, below Aniak River																					
5 Aniak River																					
43 Kisaralik River																					
19 Kwethluk River																					
311 Other Streams (specify)																					
312 Lakes (specify)																					
<b>KUSKOKWIM BAY STREAMS AND LAKES</b>																					
3 Kanektok River																					
4 Goodnews River																					
321 Other Streams (specify)																					
322 Lakes (specify)																					

PLEASE DO NOT INCLUDE SUBSISTENCE ROD AND REEL FISHING IN THIS SURVEY.

For map, see page 40.

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

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

Sum of Each Household Angler's Days Fished. Count any part of a day as one whole day. If 2 or more anglers fish the same day, include that day in each angler's sum. Example: If 2 household anglers fished the same day, Sum of Each Household Angler's Days Fished = 2.

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

DO NOT INCLUDE FISH HARVESTED UNDER SUBSISTENCE REGULATIONS.

W NORTON SOUND/ SEWARD PENINSULA AREA		No. of Household Anglers	No. of Household Trips	Sum of Each Household Angler's Days Fished	King Salmon 20" or longer		King Salmon less than 20"		Silver Salmon		Red Salmon		Pink Salmon		Chum Salmon		Dolly Varden/ Arctic Char		Arctic Grayling 15" & under		Arctic Grayling over 15"		Whitefish		Northern Pike		Burbot		Smelt		Halibut		King Crab		Other (specify)																								
					C	A	U	G	H	T	C	A	U	G	H	T	C	A	U	G	H	T	C	A	U	G	H	T	C	A	U	G	H	T	C	A	U	G	H	T	C	A	U	G	H	T	C	A	U	G	H	T	C	A	U	G	H	T	C
SALTWATER		▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼																							
9991	Boat sites (specify)																																																										
9992	Shoreline sites (specify)																																																										
FRESHWATER		▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼																								
11	Eldorado River																																																										
112	Fish River and tributaries (excluding Niukluk River)*																																																										
30	Flambeau River																																																										
14	Fox River																																																										
18	Kuzitrin River																																																										
210	Niukluk River and tributaries (BELOW the ADF&G Tower)**																																																										
211	Niukluk River and tributaries (ABOVE the ADF&G Tower)**																																																										
4	Nome River																																																										
94	North River																																																										
6	Pilgrim River																																																										
41	Shaktoolik River																																																										
22	Sinuk River																																																										
12	Snake River																																																										
15	Solomon River																																																										
3	Unalakleet River																																																										
9994	Other Streams (specify)																																																										
9993	Lakes (specify)																																																										

\* Including Pargon, and Rathlatulik rivers, and Boston Creek.

\*\* Including Casadepaga River.

PLEASE DO NOT INCLUDE SUBSISTENCE ROD AND REEL FISHING IN THIS SURVEY.

For map, see page 40.

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

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

Sum of Each Household Angler's Days Fished. Count any part of a day as one whole day. If 2 or more anglers fish the same day, include that day in each angler's sum. Example: If 2 household anglers fished the same day, Sum of Each Household Angler's Days Fished = 2.

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

DO NOT INCLUDE FISH HARVESTED UNDER SUBSISTENCE REGULATIONS.

X  NORTHWEST ALASKA AREA	No. of Household Anglers	No. of Household Trips	Sum of Each Household Angler's Days Fished	King Salmon 20" or longer	King Salmon less than 20"	Silver Salmon	Red Salmon	Pink Salmon	Chum Salmon	Lake Trout	Dolly Varden/ Arctic Char 20" & under	Dolly Varden/ Arctic Char over 20"	Arctic Grayling	Whitefish	Sheefish	Northern Pike	Burbot	Smelt	Other (specify)	
				C A U G H T	K E E P T	C A U G H T	K E E P T	C A U G H T	K E E P T	C A U G H T	K E E P T	C A U G H T	K E E P T	C A U G H T	K E E P T	C A U G H T	K E E P T	C A U G H T	K E E P T	C A U G H T
SALTWATER	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼
9991 Boat sites (specify)																				
9992 Shoreline sites (specify)																				
FRESHWATER	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼
78 Desperation Lake																				
13 Feniak Lake																				
16 Kelly River																				
17 Kivalina River																				
4 Kobuk River																				
32 Matcharak Lake																				
3 Noatak River																				
24 Selawik River																				
27 Squirrel River																				
28 Walker Lake																				
5 Wulik River																				
9994 Other Streams (specify)																				
9993 Other Lakes (specify)																				

PLEASE DO NOT INCLUDE SUBSISTENCE ROD AND REEL FISHING IN THIS SURVEY.

For map, see page 40.

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

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

Sum of Each Household Angler's Days Fished. Count any part of a day as one whole day. If 2 or more anglers fish the same day, include that day in each angler's sum. Example: If 2 household anglers fished the same day, Sum of Each Household Angler's Days Fished = 2.

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

DO NOT INCLUDE FISH HARVESTED UNDER SUBSISTENCE REGULATIONS.

Y	No. of Household Anglers	No. of Household Trips	Sum of Each Household Angler's Days Fished	King Salmon 20" or longer	King Salmon less than 20"	Silver Salmon	Red Salmon	Pink Salmon	Chum Salmon	Lake Trout	Dolly Varden/ Arctic Char	Arctic Grayling	Whitefish	Sheefish	Northern Pike less than 30"	Northern Pike 30" and over	Burbot	Other (specify)
				C A U G H T	K E P T	C A U G H T	K E P T	C A U G H T	K E P T	C A U G H T	K E P T	C A U G H T	K E P T	C A U G H T	K E P T	C A U G H T	K E P T	C A U G H T
<b>YUKON RIVER DRAINAGE FRESHWATER</b>																		
<b>YUKON RIVER DRAINAGES DOWNSTREAM FROM KOYUKUK RIVER</b>																		
147	Andreafsky River																	
148	Anvik River																	
182	Innoko River																	
247	Other sites Yukon R. downstream from Koyukuk R. (specify)																	
<b>YUKON RIVER DRAINAGES KOYUKUK RIVER TO FORT YUKON</b>																		
<b>ACCESSED FROM THE DALTON HIGHWAY (HAUL ROAD)</b>																		
15	Jim River																	
400	Kanuti River (accessed from Dalton Hwy)																	
410	Koyukuk R. Middle Fork (accessed from Dalton Hwy)																	
420	Koyukuk R. South Fork (accessed from Dalton Hwy)																	
899	Other Streams accessed from Dalton Hwy (specify)																	
898	Other Lakes accessed from Dalton Hwy (specify)																	
<b>NOT ACCESSED FROM THE DALTON HIGHWAY (HAUL ROAD)</b>																		
500	Kanuti River (not accessed from Dalton Hwy)																	
510	Koyukuk R. Middle Fork (not accessed from Dalton Hwy)																	
520	Koyukuk R. South Fork (not accessed from Dalton Hwy)																	
16	Koyukuk River mainstem*																	
204	Nowitna River																	
94	Dall River																	
202	Beaver and Nome creeks (Steese Hwy)																	
255	Birch Creek (Steese Highway)																	
24	Porcupine River Drainage																	
248	Other sites Koyukuk R. to Ft. Yukon (specify)																	
<b>YUKON RIVER DRAINAGES FORT YUKON TO CANADIAN BORDER</b>																		
249	Other sites (specify)																	

\*Koyukuk R. downstream from confluence with South Fork (not accessed from Dalton Highway).

PLEASE DO NOT INCLUDE SUBSISTENCE ROD AND REEL FISHING IN THIS SURVEY.

For map, see page 40.

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

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

Sum of Each Household Angler's Days Fished. Count any part of a day as one whole day. If 2 or more anglers fish the same day, include that day in each angler's sum. Example: If 2 household anglers fished the same day, Sum of Each Household Angler's Days Fished = 2.

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

DO NOT INCLUDE FISH HARVESTED UNDER SUBSISTENCE REGULATIONS.

Z	No. of Household Anglers	No. of Household Trips	Sum of Each Household Angler's Days Fished	King Salmon 20" or longer		King Salmon less than 20"		Pink Salmon		Chum Salmon		Lake Trout		Dolly Varden/ Arctic Char		Arctic Grayling		Whitefish		Northern Pike		Burbot		Smelt		Other (specify)			
				C	K	C	K	C	K	C	K	C	K	C	K	C	K	C	K	C	K	C	K	C	K	C	K	C	K
				A	U	A	U	A	U	A	U	A	U	A	U	A	U	A	U	A	U	A	U	A	U	A	U	A	U
<b>NORTH SLOPE/ BROOKS RANGE AREA</b>																													
<b>SALTWATER</b>	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼		
9991 Boat sites (specify)																													
9992 Shoreline sites (specify)																													
<b>FRESHWATER</b>	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼		
<b>LAKES NEAR DALTON HIGHWAY (HAUL ROAD)</b>																													
60 Galbraith Lake																													
43 Toolik Lake																													
99 Other Lakes (specify)																													
<b>STREAMS NEAR DALTON HIGHWAY (HAUL ROAD)</b>																													
22 Ivishak River																													
76 Sagavanirktok River																													
100 Other Streams (specify)																													
<b>REMAINDER OF NORTH SLOPE/ BROOKS RANGE FISHING SITES</b>																													
53 Canning River																													
14 Kongakut River																													
9994 Other Streams (specify)																													
9993 Other Lakes (specify)																													

PLEASE DO NOT INCLUDE SUBSISTENCE ROD AND REEL FISHING IN THIS SURVEY.





Dear Sport Angler,

This year marks the 33<sup>rd</sup> year in which the annual Statewide Harvest Survey has been conducted. The angler response rate has consistently been above average for a survey of this magnitude, and for this we have you to thank.

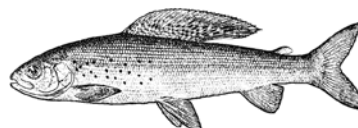
One of the primary goals of Alaska Department of Fish and Game is to provide a diverse mix of recreational fishing opportunities that are of interest to Alaskans and visitors of our state. Your response to this sport fish survey is important, and aids us in providing statewide estimates of participation, catch, and harvest for our fisheries managers. Alaska Department of Fish and Game uses this information to protect and improve recreational fisheries throughout Alaska.

The results of this survey will be available to the public in the fall of 2010. Feel free to call us at (907) 267-2280 or email us at [dfg.dsf.publications@alaska.gov](mailto:dfg.dsf.publications@alaska.gov) if we can assist you.

Please visit our website, which provides current and historic information gathered from this vital survey. Our web address is: <http://www.sf.adfg.state.ak.us/Statewide/ParticipationAndHarvest/index.cfm>

Thank-you again,

Charles Swanton  
Director, Division of Sport Fish



The Alaska Department of Fish and Game (ADF&G) administers all programs and activities free from discrimination based on race, color, national origin, age, sex, religion, marital status, pregnancy, parenthood, or disability. The department administers all programs and activities in compliance with Title VI of the Civil Rights Act of 1964, Section 504 of the Rehabilitation Act of 1973, Title II of the Americans with Disabilities Act (ADA) of 1990, the Age Discrimination Act of 1975, and Title IX of the Education Amendments of 1972. If you believe you have been discriminated against in any program, activity, or facility please write: ADF&G ADA Coordinator, P.O. Box 115526, Juneau, AK 99811-5526; U.S. Fish and Wildlife Service, 4401 N. Fairfax Drive, MS 2042, Arlington, VA 22203; Office of Equal Opportunity, U.S. Department of the Interior, 1849 C Street NW MS 5230, Washington DC 20240. The department's ADA Coordinator can be reached via phone at the following numbers: (VOICE) 907-465-6077, (Statewide Telecommunication Device for the Deaf) 1-800-478-3648, (Juneau TDD) 907-465-3646, or (FAX) 907-465-6078.

# STATE OF ALASKA

## DEPARTMENT OF FISH AND GAME

### DIVISION OF SPORT FISH

**SEAN PARNELL, GOVERNOR**

*Research & Technical Services*

*333 Raspberry Road.*

*Anchorage, AK 99518-1599*

*PHONE: (907) 267-2280*

*FAX: (907) 267-2422*

Dear Alaska Angler,

You have been selected to receive a **2009 Sport Fish Survey**. We conduct this survey every year to measure how much fishing occurs and how many fish are caught and kept by sport anglers in Alaska. This information is essential to our ongoing efforts to maintain and improve Alaska's sport fisheries.

Please help us by doing your best to remember **your household's** 2009 sport fishing activity, record it in the enclosed survey booklet, and return the booklet using the postage-paid envelope. Your voluntary participation is extremely important. *The information provided will be treated confidentially and will not be used for enforcement purposes.*

While the tables and maps may make the survey look a bit complicated, for most people there are only a few pages that must be completed to report a household's sport fishing information.

**If you and other members of your household did not get a chance to go fishing in 2009, we ask that you please complete the General Questions on page 3 of the questionnaire,** and return the survey to us. We mail reminders when the survey is not returned, so returning the booklet in a timely fashion will help ensure that we do not send you the survey again.

Please accept the full-color index of Alaska fresh and salt water species as a small token of thanks for your effort.

**The results of the 2009 Alaska Sport Fish Survey will be available in fall of 2010. If you are interested in seeing the results of previous years' surveys, visit the Alaska Division of Sport Fish website at: [http://www.sf.adfg.state.ak.us/statewide/sf\\_home.cfm](http://www.sf.adfg.state.ak.us/statewide/sf_home.cfm)**

Thank you for your willingness to help us maintain and improve Alaska's sport fisheries.

Sincerely,

Charles O Swanton, Director

# STATE OF ALASKA

SEAN PARNELL, GOVERNOR

## DEPARTMENT OF FISH AND GAME

### DIVISION OF SPORT FISH

Research & Technical Services  
333 Raspberry Road.

Anchorage, AK 99518-1599

PHONE: (907) 267-2280

FAX: (907) 267-2422

Dear Alaska Angler,

A few weeks ago we sent you a **2009 Sport Fishing Survey**. We conduct this survey every year to measure how much fishing occurs and how many fish are caught and kept by sport anglers in Alaska. This information is essential to our ongoing efforts to maintain and improve Alaska's sport fisheries.

Information about your 2009 sport fishing is very valuable to this study because you have been chosen to represent many other sport anglers in Alaska. However, we have yet to receive your completed survey.

Please take a few minutes and recollect **your household's** 2009 sport fishing activity, record it in the enclosed survey booklet, and return the booklet using the postage-paid envelope. *The information provided will be treated confidentially and will not be used for enforcement purposes.*

While the tables and maps may make the survey look a bit complicated, for most people there are only a few pages that must be completed to report a household's sport fishing information.

**If you and other members of your household did not get a chance to go fishing in 2009, we ask that you please complete the General Questions on page 3 of the questionnaire**, and return the survey to us. We mail reminders when the survey is not returned, so returning the booklet in a timely fashion will help ensure that we do not send you the survey again.

Please accept the full-color index of Alaska fresh and salt water species as a small token of thanks for your effort.

**This is the 33<sup>rd</sup> year that the Alaska Sport Fishing Survey has been conducted, and we thank all participants for the success of this project. The results of the 2009 Alaska Sport Fishing Survey will be available in fall of 2010. If you are interested in seeing the results of previous years' surveys, visit the Alaska Division of Sport Fish website: [http://www.sf.adfg.state.ak.us/statewide/sf\\_home.cfm](http://www.sf.adfg.state.ak.us/statewide/sf_home.cfm).**

Thank you for your willingness to help us maintain and improve Alaska's sport fisheries.

Sincerely,



Charles O Swanton, Director

# STATE OF ALASKA

## DEPARTMENT OF FISH AND GAME

### DIVISION OF SPORT FISH

**SEAN PARNELL, GOVERNOR**

*Research & Technical Services*

*333 Raspberry Road.*

*Anchorage, AK 99518-1599*

*PHONE: (907) 267-2280*

*FAX: (907) 267-2422*

Dear Angler,

Re: Sport Fishing in Alaska, 2009

At this time of year, we realize that your 2009 fishing experience is becoming a distant memory. We are, however, requesting your help by asking that you complete the Alaska **2009 Sport Fishing Survey**. We appreciate your willingness to consider our request by supplying your best recollection of your household's sport fishing participation, catch, and harvest. Your response will help guide decisions that protect and enhance Alaska's excellent sport fishing opportunities.

This survey is mailed annually to about 10% of Alaska sportfishing license holders. The information gained helps Alaska Department of Fish and Game determine where anglers fished and how many fish they caught and kept within Alaska's sport fisheries. The results are used for sport fisheries planning and management purposes, and by anglers planning for the best sport fishing experience.

The study is drawing to a close, and this is the last contact that will be made in this year's survey. Hearing from everyone who was mailed a survey helps assure that the results are as accurate as possible. Even if you or other household members didn't fish in 2009, we ask that you complete the General Questions on page 3 and mail the survey back to us in the envelope provided.

If you have already returned your completed form, please disregard this letter and accept my thanks.

Sincerely,



Charles O. Swanton,

Director

*ALASKA DEPARTMENT OF FISH AND GAME*

# *2009 Sport Fish Survey*



*We are interested in knowing about your Alaskan fishing experiences in 2009.*

*Even if you did not fish in 2009, please answer the questions on page 3.*

*Use the Mapsite booklet to assist you in finding Areas and Site descriptions.*

*We ask that you do not include subsistence caught fish.*

*Thank-you*



Alaska Department of Fish and Game  
Division of Sport Fish (RTS)  
333 Raspberry Road  
Anchorage, Alaska 99518  
(907) 267-2280

PLEASE ANSWER THE GENERAL QUESTIONS ON PAGE 3.  
INSTRUCTIONS FOR RECORDING YOUR FISHING ACTIVITIES ARE ON PAGES 4 AND 5.  
COMPLETE THIS SURVEY BOOKLET, AND RETURN IT IN THE ENCLOSED ENVELOPE.

THANK YOU!  
YOUR PARTICIPATION SUPPORTS SUSTAINABLE SPORT FISHERIES THROUGHOUT THE STATE OF ALASKA.

#### LIST OF SECTIONS

SECTIONS	PAGE
SALTWATER, NON CHARTER TRIP	6
SALTWATER, CHARTER TRIP	7
FRESHWATER, NON GUIDED TRIP	8
FRESHWATER, GUIDED TRIP	9
PERSONAL USE DIPNETTING, NON GUIDED TRIP	10
PERSONAL USE DIPNETTING, GUIDED TRIP	10
SHELLFISH, NON GUIDED TRIP	11
SHELLFISH, GUIDED TRIP	11

#### DEFINITIONS

**Chartered/Guided:** You paid or otherwise compensated a sport fish guide or guide business to personally direct and accompany you in fishing activities. However, a person who provides only transportation services (including air) or rents out vessels or skiffs without remaining to direct your fishing activities is not a guide or charter operator for the purposes of this study.

**Household:** A household is defined as all people sharing a principal place of residence. This **excludes** persons renting (subletting) within a home, or relatives that live in separate homes. A person paying rent for your basement apartment is not part of your household, nor is your visiting son or daughter. Record only harvest for household members.

**Personal use:** Personal use fisheries are designated by the Alaska Board of Fisheries for specific areas and gear types, and are allowed only in these legally defined areas. These fisheries require an **Alaska resident** sportfishing license or Alaska Department of Fish and Game Permanent Identification card for participation, and are distinguished by the requirement that the harvest must be for personal use only. These fisheries are NOT open to non-Alaska residents.

**Subsistence Fisheries:** Subsistence fisheries are legally defined rural fisheries for community residents and their household only, and are based on customary and traditional use of the resource. Do not report subsistence harvest in this survey, as the Division of Sport Fish does not manage these fisheries.

The Alaska Department of Fish and Game administers all programs and activities free from discrimination based on race, color, national origin, age, sex, religion, marital status, pregnancy, parenthood, or disability. The department administers all programs and activities in compliance with Title VI of the Civil Rights Act of 1964, Section 504 of the Rehabilitation Act of 1973, Title II of the Americans with Disabilities Act of 1990, the Age Discrimination Act of 1975, and Title IX of the Education Amendments of 1972. If you believe you have been discriminated against in any program, activity, or facility, or if you desire further information please write to ADF&G, ADA Coordinator, P.O. Box 115526, Juneau, AK 99811-5526; U.S. Fish and Wildlife Service, 4401 N. Fairfax Drive, MS-2042, Arlington, VA 22203 or O.E.O., U.S. Department of the Interior, 1849 C Street Washington DC 20240. The department's ADA Coordinator can be reached via phone at the following numbers: (VOICE) 907-465-6077, (Statewide Telecommunications Device for the Deaf) 1-800-478-3648, (Juneau TDD) 907-465-3646, or (FAX) 907-465-6078.

## GENERAL QUESTIONS

The questions below apply to people in your household who **PURCHASED** a 2009 Alaska Sportfishing License:

- 1A. How many people in your household purchased a 2009 Alaska sportfishing license? ..... \_\_\_\_\_
- 1B. How many people recorded in 1A (above) sport fished in Alaska in 2009? ..... \_\_\_\_\_

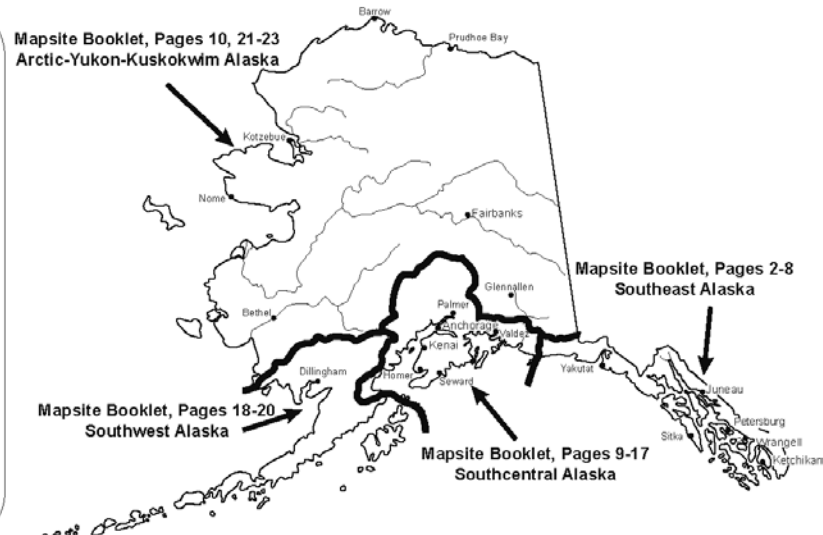
The questions below apply to people in your household who **DID NOT PURCHASE** a 2009 Alaska Sportfishing License:

- 2A. How many people in your household under 16 years of age sport fished in Alaska in 2009? ..... \_\_\_\_\_
- 2B. An Alaska resident 60 years of age and older, or an Alaska resident disabled veteran qualifies for a permanent identification card for Alaska sportfishing. How many people in your household have a permanent identification card, including those who did not sport fish in Alaska? ..... \_\_\_\_\_
- 2C. How many people recorded in 2B (above) sport fished in Alaska in 2009? ..... \_\_\_\_\_

The question below applies to **all people in your household** and the 2009 sportfishing season:

3. How many **total** people in your household sport fished in Alaska during 2009? ..... \_\_\_\_\_

.....  
Please provide comments on sportfishing in Alaska during 2009:



## INSTRUCTIONS

**Period covered:** January 1 through December 31, 2009.

**What if your household did not sport fish in 2009?** Answer the questions on page 3 and return the survey in the postage-paid envelope so we may avoid mailing you additional 2009 surveys.

**What if your household did sport fish in 2009?**

- Answer the questions on page 3.
- Read the instructions on page 5, referring to the example below.
- Use the Mapsite booklet to identify sites. Complete the pages in this booklet that cover the types of fishing done by you or your household members.
- Return the survey in the postage-paid envelope.

**Who to include:** Report your household's sportfishing only. Do not include visiting friends or relatives.

**What to include:** Report all your household sport, shellfish and personal use fishing information. If you are the beneficiary (the one who keeps the fish) of a proxy, report that fishing activity as part of your household.

**What to exclude:** Do not report commercially caught or subsistence caught fish. A sportfishing guide should not report client information. Do not report fish caught while proxy fishing for someone outside your household. Report only your own household information.

**When to reply:** Return this form after completing all 2009 sportfishing, including ice fishing.

**Please help reduce costs:** We mail up to 2 reminders to those who do not respond. You can help reduce costs by replying promptly.

**SPORT ANGLERS LIVING OUTSIDE OF THE UNITED STATES:** The postage permit that we have for return mail is valid only within the United States. Because the survey helps us to offer world class fishing experiences for all anglers, we ask that you return the survey by supplying your own postage.

If you have questions about this survey, please call (907) 267-2280 or contact us via email at: [dfg.dsf.publications@alaska.gov](mailto:dfg.dsf.publications@alaska.gov)

### HOW TO RECORD YOUR HOUSEHOLD'S Sportfishing: See the step by step instructions on page 5.

EXAMPLE: A man and his wife fished together on 3 trips to the Kenai River, near the Soldotna Bridge. They both fished 1 day on each of these trips, and caught a total of 4 silver salmon and kept 3. The man then fished alone on 1 additional trip for half a day (for the survey purposes, any part of a day is counted as a whole day) but he didn't catch anything on this trip.

This survey respondent should record these trips with the following information (see the facing page for more detailed instructions).

#### 1 FRESHWATER Sportfishing NON GUIDED

Fishing Sites	3 Area Code Letter	4 Site Number	5 Fishery Type B O A T B A N K	6 No. of Household Anglers	7 No. of Household Trips	8 Sum of Each Household Angler's Days Fished	9 Silver Salmon		Pink Salmon		Red Salmon		Rainbow Trout		Chum Salmon		Dolly Varden/ Arctic Char	
							C A U G H T	K E P T	C A U G H T	K E P T	C A U G H T	K E P T	C A U G H T	K E P T	C A U G H T	K E P T		
<i>Kenai River - Cook Inlet to Soldotna Bridge</i>	<i>P</i>	<i>1</i>	<i>✓</i>	<i>2</i>	<i>4</i>	<i>7</i>	<i>4</i>	<i>3</i>	EXAMPLE									



## HOW TO RECORD YOUR HOUSEHOLD'S 2009 SPORTFISHING

### ► USE THESE INSTRUCTIONS TOGETHER WITH THE EXAMPLE ON PAGE 4.

- 1 ► **Sections:** Use the Sections Listing on page 2 to identify the pages you will need to complete based on your household's 2009 sportfishing activities. Please be sure to record your fishing as saltwater or freshwater, guided or non-guided by choosing the appropriate sections. Do not combine saltwater and freshwater fishing on one line.
- 2 ► **Site Name:** Write the name of each site where you fished. Names of some commonly fished sites are provided in the Mapsite booklet included in this packet (see instructions 3 and 4). If you cannot locate a fishing site in the Mapsite book, please write the area and the name of the location, using multiple lines if necessary.
- 3 ► **Area Code Letter:** The Mapsite booklet divides Alaska into areas labeled A through Z. Use the Mapsite booklet to determine the area code letter for each of your fishing locations and write it in the column marked Area Code Letter.
- 4 ► **Site Number:** The Mapsite booklet lists the names and site numbers of some commonly fished sites in Alaska. Determine the correct site number for each location and write it in the Site Number column. If you do not find your site in the Mapsite booklet, please be sure to record the Area Code Letter and the fishing site with a brief description in the **Site Name** column.
- 5 ► **Fishery Type:** Mark whether you fished from a boat or from the shore/bank. If you fished from both a boat and on the shore/bank at the same location, check both boxes.
- 6 ► **Number of Household Anglers:** Record how many anglers in your household fished at this site.
- 7 ► **Number of Household Trips:** Record the number of trips made to this site (a trip, which may last one or more days, is a visit to a fishing location).
- 8 ► **Sum of Each Household Angler's Days Fished:** Add up the **TOTAL** number of days each household member fished at this site. Count any part of a day as a whole day. If two or more anglers fished the same day, include that day in each angler's sum. Then total all anglers' days for that site. Example: If three household anglers fish two days at the same site, the sum of the household anglers' days fished = 6.
- 9 ► **Caught:** Write how many fish were caught, whether or not they were kept.
- 10 ► **Kept:** Write how many fish were kept.

Thank you! Please return the survey in the envelope provided. You may keep the Mapsite booklet.

**NON CHARTER** — YOU DID NOT PAY to be personally directed during your fishing trip.

# SALTWATER

[illegible]

In Area Code Letters A-H "Large" are king salmon 28 inches and over, "Small" are king salmon less than 28 inches.  
In Area Code Letters I-Z "Large" are king salmon 20 inches and over, "Small" are king salmon less than 20 inches.

**CHARTER** — YOU PAID to be personally directed during your fishing trip.

# SALTWATER

[illegible]

In Area Code Letters A-H "Large" are king salmon 28 inches and over, "Small" are king salmon less than 28 inches. In Area Code Letters I-Z "Large" are king salmon 20 inches and over, "Small" are king salmon less than 20 inches.

**NON GUIDED** — YOU DID NOT PAY to be personally directed during your fishing trip.

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

Sum of Each Household Angler's Days Fished = 2.

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

DO NOT INCLUDE FISH HARVESTED UNDER SUBSISTENCE REGULATIONS.

[illegible]

In Area Code Letters A-G "Large" are king salmon 28 inches and over, "Small" are king salmon less than 28 inches. In Area Code Letters H-Z "Large" are king salmon 20 inches and over, "Small" are king salmon less than 20 inches.

**GUIDED** — YOU PAID to be personally directed during your fishing trip.

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

Sum of Each Household Angler's Days Fished = 2.

DO NOT INCLUDE FISH HARVESTED UNDER SUBSISTENCE REGULATIONS.

[illegible]

In Area Code Letters A-G "Large" are king salmon 28 inches and over, "Small" are king salmon less than 28 inches. In Area Code Letters H-Z "Large" are king salmon 20 inches and over, "Small" are king salmon less than 20 inches.

**PERSONAL USE DIPNETTING — SALMON ONLY****NON GUIDED** — YOU DID NOT PAY to be personally directed during your fishing trip.

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

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

Sum of Each Household Angler's Days Fished. Count any part of a day as one whole day. If 2 or more anglers fish the same day, include that day in each angler's sum. Example: If 2 household anglers fished the same day, Sum of Each Household Angler's Days Fished = 2.

For each type of fish, write the total number caught and the number kept by your household.  
DO NOT INCLUDE FISH HARVESTED UNDER SUBSISTENCE REGULATIONS.

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

**PERSONAL USE DIPNETTING — SALMON ONLY****GUIDED** — YOU PAID to be personally directed during your fishing trip.

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

**SHELLFISH — CRABS, CLAMS, AND SHRIMP****NON GUIDED** — YOU DID NOT PAY to be personally directed during your fishing trip.

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

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

Sum of Each Household Angler's Days Fished. Count any part of a day as one whole day. If 2 or more anglers fish the same day, include that day in each angler's sum. Example: If 2 household anglers fished the same day, Sum of Each Household Angler's Days Fished = 2.

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

**DO NOT INCLUDE FISH HARVESTED UNDER SUBSISTENCE REGULATIONS.**

Fishing Sites			No. of Household Anglers	No. of Household Trips	Sum of Each Household Angler's Days Fished	Razor Clams (numbers)	Hardshell Clams (gallons)	Shrimp (gallons)	King Crab		Dungeness Crab		Tanner Crab		Other Shellfish (specify)	
Site Name	Area Code Letter	Site Number				KEPT	KEPT	KEPT	CAUGHT	KEPT	CAUGHT	KEPT	CAUGHT	KEPT	CAUGHT	KEPT

**RAZOR CLAMS**

Razor Clams have long, narrow, smooth shells that can grow to longer than 7 inches. The shells are covered with a thin tissue-like layer that varies in color from brown to yellowish-brown depending upon the clam size. In older clams the tissue covering is usually eroded. The shells are thin and the shell edges sharp.

**SHELLFISH — CRABS, CLAMS, AND SHRIMP****GUIDED** — YOU PAID to be personally directed during your fishing trip.

Fishing Sites			No. of Household Anglers	No. of Household Trips	Sum of Each Household Angler's Days Fished	Razor Clams (numbers)	Hardshell Clams (gallons)	Shrimp (gallons)	King Crab		Dungeness Crab		Tanner Crab		Other Shellfish (specify)	
Site Name	Area Code Letter	Site Number				KEPT	KEPT	KEPT	CAUGHT	KEPT	CAUGHT	KEPT	CAUGHT	KEPT	CAUGHT	KEPT

**HARDSHELL CLAMS**

The **butter clam** shell is thick and white. It has heavy concentric growth rings, but no vertical ridges. The shell's inner edge is smooth. Butter clams are 3 to 5 inches long.



The **littleneck clam** shells are usually white, but may be brown or have brown markings. The shells have concentric growth rings and distinct vertical ridges. Littleneck clams are about 2 inches long.



Dear Sport Angler:

The year 2009 marks the 33<sup>rd</sup> year in which the annual Statewide Harvest Survey has been conducted. The angler response rate has consistently been above average for a survey of this magnitude, and for this we have you to thank.

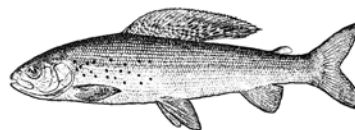
Your response to this survey is important, and aids us in providing statewide estimates of participation, catch, and harvest for our fishery managers. Alaska Department of Fish and Game uses this information to protect and improve recreational fisheries throughout Alaska.

The results of this survey will be available to the public in the fall of 2010. Feel free to call us at (907) 267-2280 or email us at [dfg.dsf.publications @ alaska.gov](mailto:dfg.dsf.publications@alaska.gov) if we can assist you.

Please visit our website, which provides current and historic information gathered from this vital survey. Our web address is: <http://www.sf.adfg.state.ak.us/Statewide/ParticipationAndHarvest/index.cfm>

Thank-you again,

Charles Swanton  
Director, Division of Sport Fish

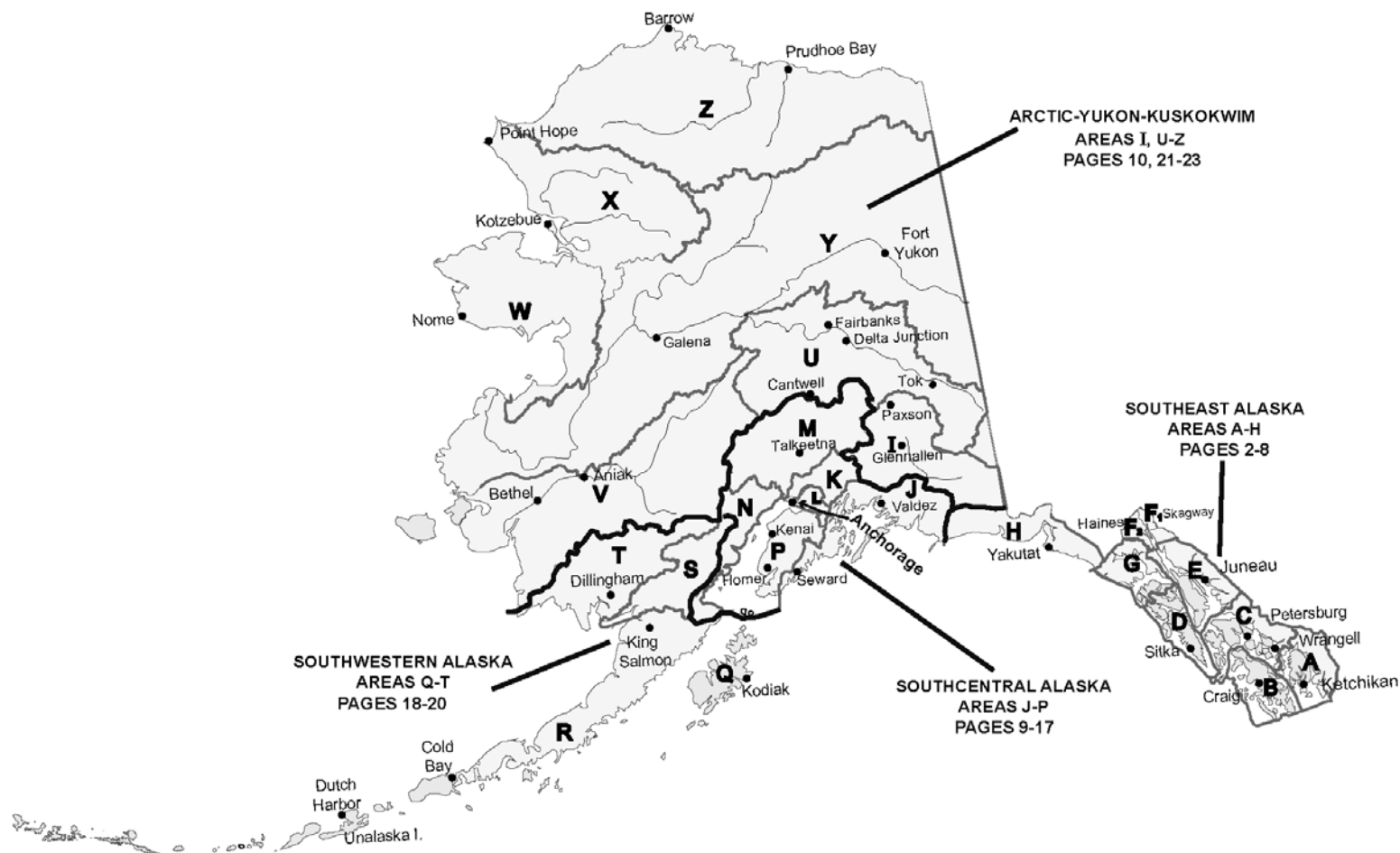




# MAPSITE BOOKLET

## *Maps, Area Descriptions, and Fish Size Categories*

Use the map below to find the pages that apply to your household's sport fishing in 2009



TO SAVE POSTAGE, PLEASE DO NOT RETURN THIS BOOKLET WITH YOUR QUESTIONNAIRE.**A KETCHIKAN AREA****Saltwater**

<u>No.</u>	<u>Site Name</u>
1	East and West Behm Canals
1008	Terminal Harvest Areas near Ketchikan *†
5	Yes Bay
6	Bell Island
728	Mountain Point
730	Carroll Inlet
737	Herring Cove
9991	Other Boat Sites (specify site names)
9992	Other Shoreline Sites (specify site names)

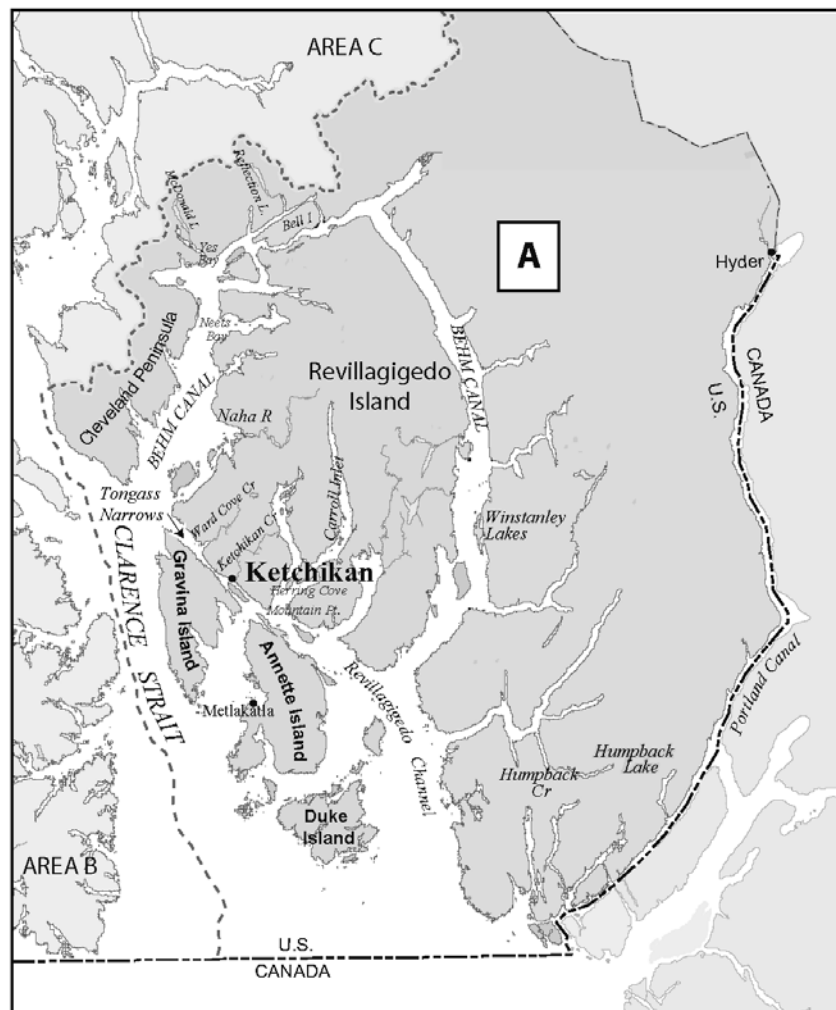
**Freshwater**

<u>No.</u>	<u>Site Name</u>
10	Ward Cove Creek
9	Naha River
214	Ketchikan Creek
134	Humpback Creek
165	Reflection Lake
180	Ward Lake
200	McDonald Lake Drainage
187	Winstanley Lakes
9994	Other Streams (specify site names)
9993	Other Lakes (specify site names)

\* Includes the Neets Bay and Mountain Point harvest areas.

† A terminal harvest area is where associated boundaries and liberalized harvest limits or methods and means are established by emergency order.

Fish Size Categories  
 AREA A KING SALMON  
 "Large" are 28 inches and over;  
 "Small" are less than 28 inches.

**KETCHIKAN AREA**

TO SAVE POSTAGE, PLEASE DO NOT RETURN THIS BOOKLET WITH YOUR QUESTIONNAIRE.

**B PRINCE OF WALES ISLAND AREA**

**Saltwater**

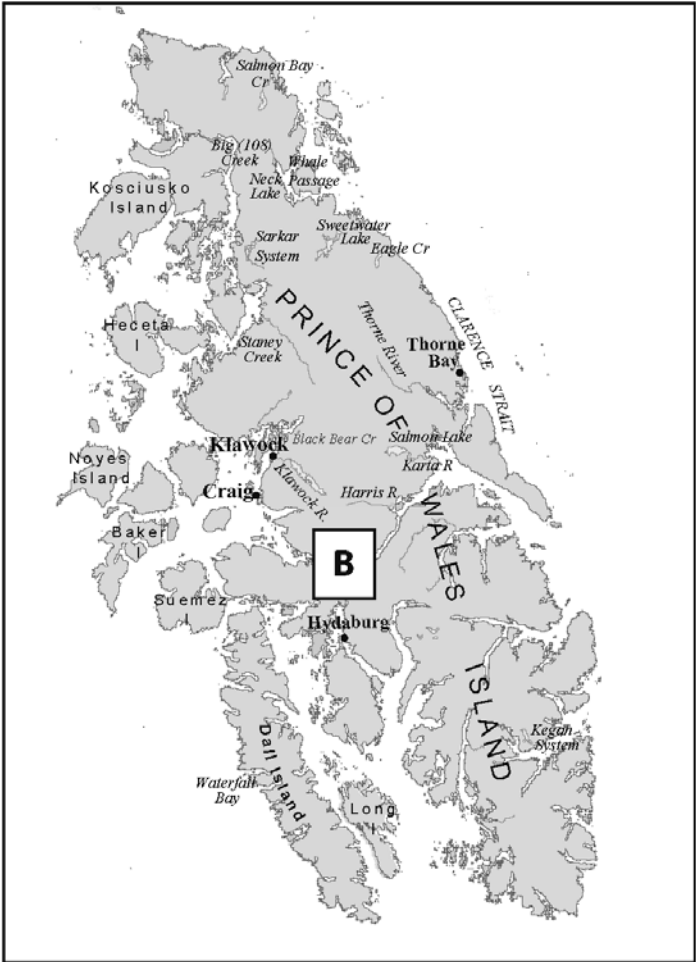
No.	Site Name
736	Waterfall Bay
1008	Eastside Prince of Wales Island
1010	Westside Prince of Wales Island
1055	Neck Lake Outlet Fishery (located in the Whale Passage area)
9991	Other Saltwater (specify site names)

**Freshwater**

No.	Site Name
216	Big (108) Creek
115	Black Bear Creek
120	Eagle Creek
124	Harris River
3	Karta River
219	Kegan System (Stream, Lake)
5	Klawock River
191	Salmon Bay Creek
243	Salmon Lake
220	Sarkar System (Stream, Lake)
158	Staney Creek
218	Sweetwater System (Stream, Lake)
217	Thorne System (Stream, Lake)
9994	Other Streams (specify site names)
9993	Other Lakes (specify site names)

Fish Size Categories  
AREA B KING SALMON  
"Large" are 28 inches and over;  
"Small" are less than 28 inches.

**PRINCE OF WALES ISLAND AREA**



TO SAVE POSTAGE, PLEASE DO NOT RETURN THIS BOOKLET WITH YOUR QUESTIONNAIRE.

## C KAKE, PETERSBURG, WRANGELL, STIKINE AREA

### Saltwater

No.	Site Name
728	Frederick Sound (near Petersburg)
1	Terminal Harvest Area near Petersburg * †
720	Wrangell Narrows
758	Thomas Bay
906	Rest of Petersburg Area
3	Greys Pass/Banana Point
794	Sumner Strait from Strait Island to Greys Pass**
798	Snow Passage
908	Wrangell Area
776	Kake Area
907	Petersburg Road System
909	Wrangell Road System
9991	Other Saltwater (specify site names)

### Freshwater

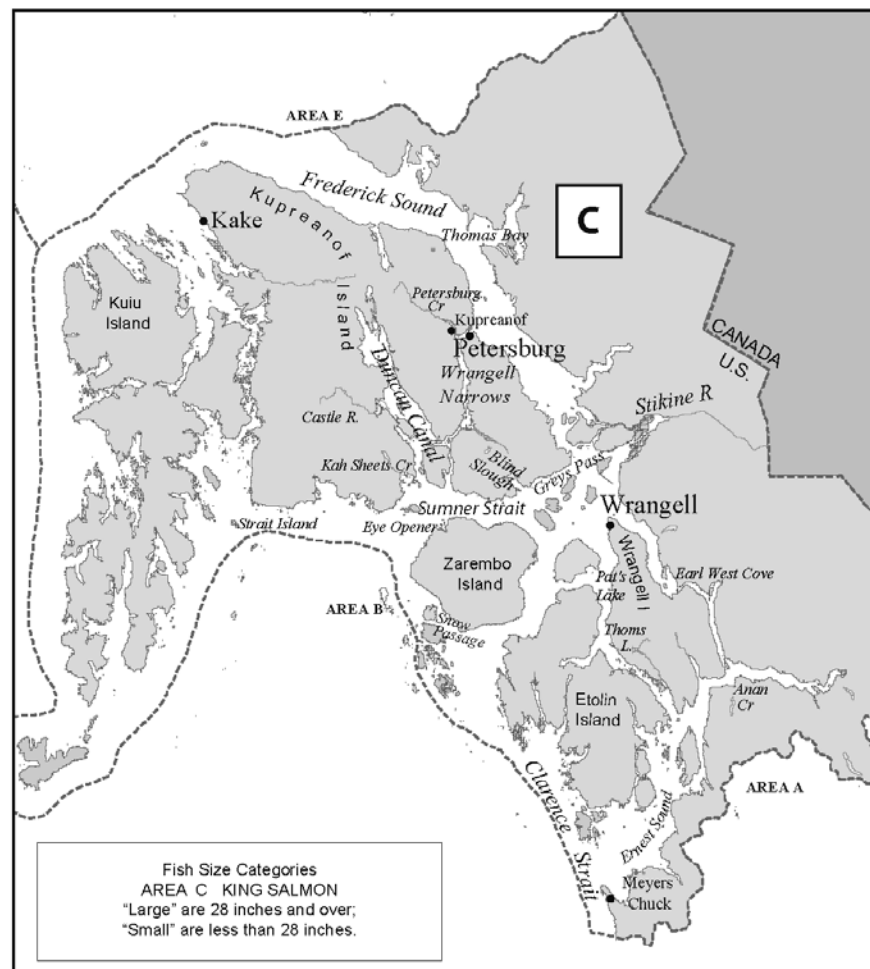
No.	Site Name
9	Anan Creek
5	Blind Slough (in Wrangell Narrows)
8	Castle River
147	Kah Sheets Creek
202	Pat's Lake (Trout Lake)
10	Petersburg Creek
175	Stikine River
216	Thoms Creek and Lake
9994	Other Streams (specify site names)
9993	Other Lakes (specify site names)

\* Described as that portion of Wrangell Narrows, south of 56° 46' N. latitude (Martinsen's Dock) and north of the latitude of the northern tip of Woewodski Island.

\*\* Waters adjacent to South Mitkof Island shore (Woodpecker Cove, Station Island), Zarembo Island (Baht Harbor, Craig Pt.) and South Kupreanof Island (Kah Sheets Bay, Level islands, and Eye Opener).

† A terminal harvest area is where associated boundaries and liberalized harvest limits or methods and means are established by emergency order.

## KAKE, PETERSBURG, WRANGELL, STIKINE AREA



TO SAVE POSTAGE, PLEASE DO NOT RETURN THIS BOOKLET WITH YOUR QUESTIONNAIRE.

## D SITKA AREA

### Saltwater

- | No.  | Site Name                            |
|------|--------------------------------------|
| 724  | Sitka Sound (specify site names)     |
| 13   | Silver Bay                           |
| 850  | Hidden Falls                         |
| 1053 | Sitka Road System                    |
| 1044 | Outer Coast of Kruzof Island         |
| 766  | Salisbury Sound                      |
| 1050 | West Chichagof Island                |
| 1046 | Tenakee area                         |
| 1048 | East side of Baranof Island          |
| 9991 | Other Saltwater (specify site names) |

### Freshwater

- | No.  | Site Name                          |
|------|------------------------------------|
| 186  | Baranof lake or stream             |
| 8    | Eva lake or stream                 |
| 231  | Plotnikof lake or stream           |
| 232  | Rezanof drainage (lakes, streams)  |
| 148  | Salmon Lake                        |
| 14   | Sitkoh lake or stream              |
| 9994 | Other Streams (specify site names) |
| 9993 | Other Lakes (specify site names)   |



Fish Size Categories  
 AREA D KING SALMON  
 "Large" are 28 inches and over;  
 "Small" are less than 28 inches.

TO SAVE POSTAGE, PLEASE DO NOT RETURN THIS BOOKLET WITH YOUR QUESTIONNAIRE.**E JUNEAU AREA****Saltwater**

- | No.  | Site Name  |
|------|--|
| 956  | Terminal Harvest Area *†   |
| 1000 | Saltwater near Juneau (Lower Lynn Canal south to Point Couverden, Favorite Channel, and upper Stephens Passage south to Doty Cove)** |
| 754  | Lower Stephens Passage area (south of Doty Cove)   |
| 758  | Angoon Area  |
| 923  | Auke Creek Mouth   |
| 939  | Macaulay Hatchery  |
| 3    | Other Juneau Road System   |
| 9991 | Other Saltwater (specify site names)   |

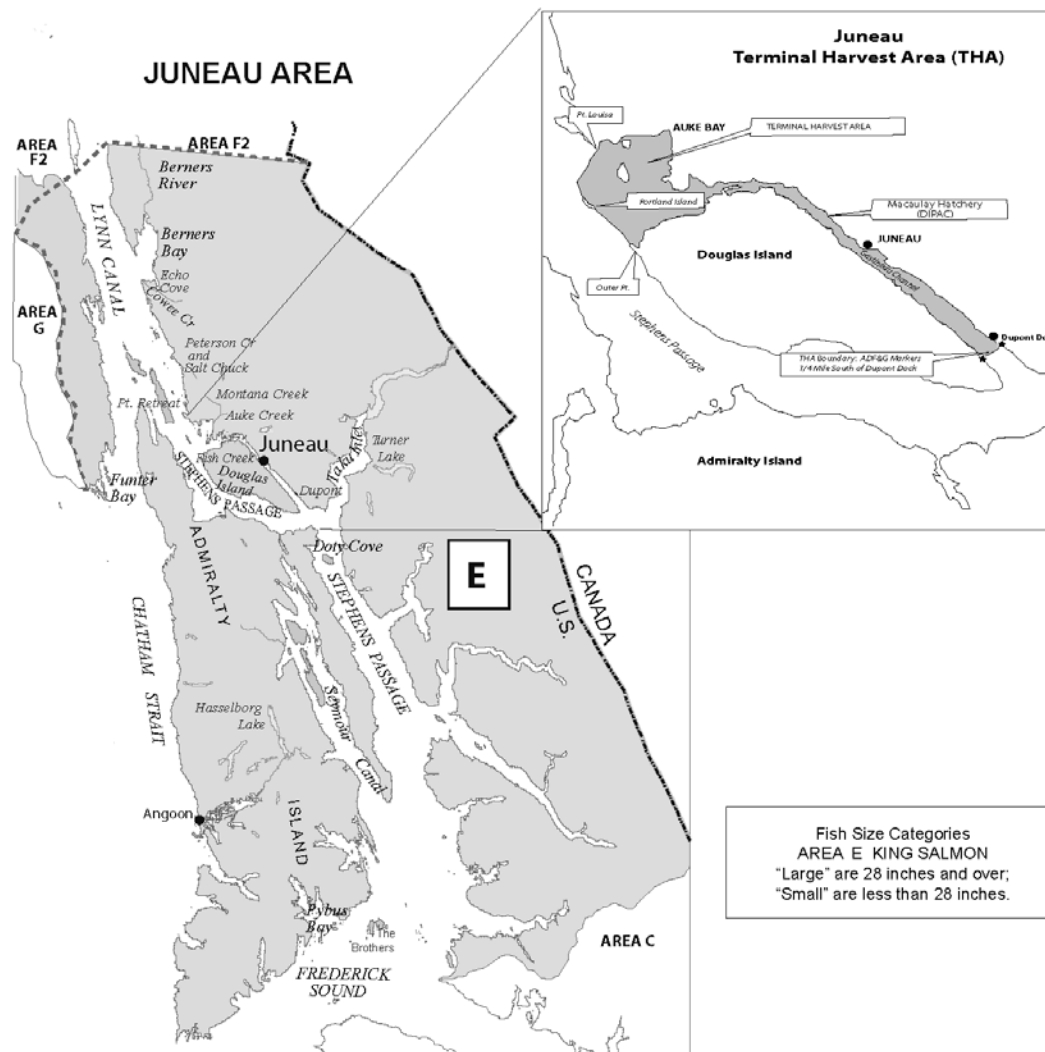
**Freshwater**

- | No.  | Site Name                              |
|------|--|
| 143  | Fish Creek inc. mouth (Douglas Island) |
| 175  | Peterson Creek and Salt Chuck          |
| 211  | Twin Lakes                             |
| 168  | Montana Creek, including mouth         |
| 213  | Cowee Creek (near Echo Cove)           |
| 6    | Other Juneau Road System               |
| 9    | Hasselborg Lake                        |
| 11   | Turner Lake                            |
| 9994 | Other Streams (specify site names)     |
| 9993 | Other Lakes (specify site names)       |

\* Described as marine waters east of a line from Pt. Louisa to the eastern shore of Portland Island, to the north tip of Outer Point on Douglas Island and the waters west of Dupont (see map at right).

\*\* Excluding Terminal Harvest Area.

† A terminal harvest area is where associated boundaries and liberalized harvest limits or methods and means are established by emergency order.



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F1 SKAGWAY AREA

Saltwater Skagway Area

No.	Site Name
736	Taiya Inlet
9991	Other Saltwater (specify site names)

Freshwater Skagway Area

121	Pullen Creek and Pond
9994	Other Skagway Area Streams (specify site names)
9993	Other Skagway Area Lakes (specify site names)

F2 HAINES AREA

Saltwater Haines Area

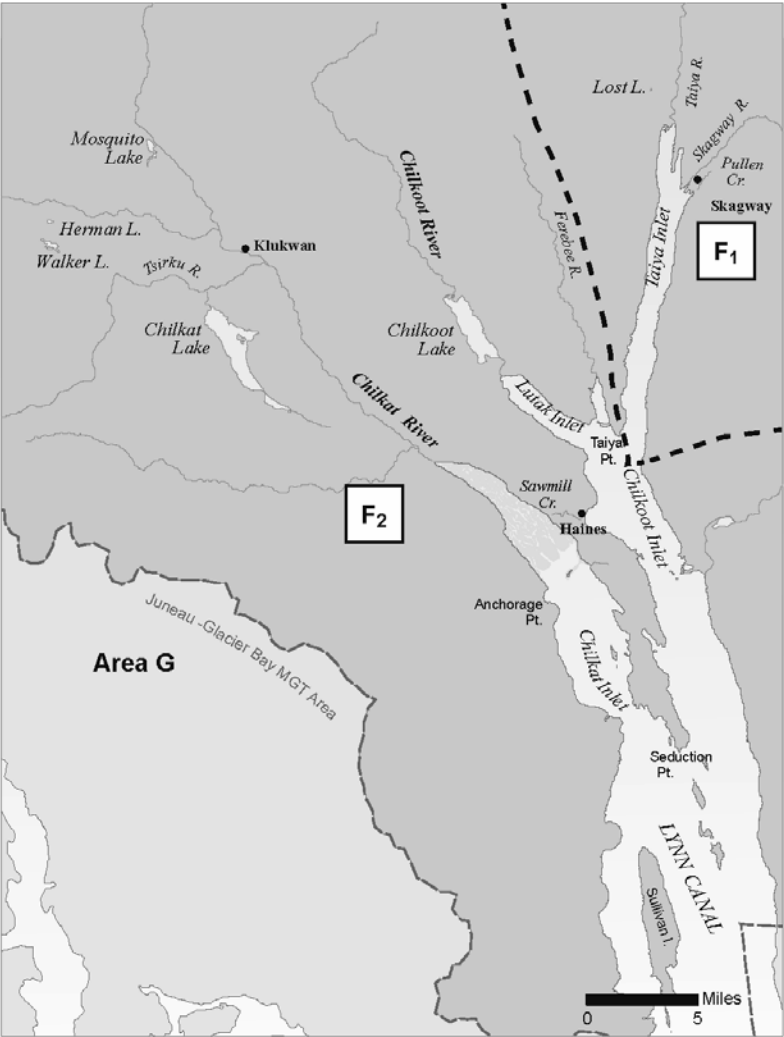
No.	Site Name
732	Chilkoot Inlet
730	Chilkat Inlet
9991	Other Haines Saltwater (specify site)

Freshwater Haines Area

3	Chilkoot River
5	Chilkoot Lake
107	Chilkat River
130	Chilkat Lake
9994	Other Haines Area Streams (specify site names)
9993	Other Haines Area Lakes (specify site names)

Fish Size Categories  
AREA F KING SALMON  
"Large" are 28 inches and over;  
"Small" are less than 28 inches.

HAINES/SKAGWAY AREA



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- | No.  | Site Name  |
|------|--|
| 736  | Glacier Bay proper (INSIDE Glacier Bay National Park)*     |
| 972  | Glacier Bay National Park (NOT within Glacier Bay Proper)* |
| 968  | Icy Strait (NOT within Glacier Bay National Park)          |
| 970  | Cross Sound (NOT within Glacier Bay National Park)         |
| 800  | Outer coast Yakobi Island                                  |
| 802  | Homeshore area   |
| 740  | Gustavus area  |
| 908  | Hoonah area  |
| 769  | Berg Bay   |
| 804  | Northern Chichagof Island                                  |
| 9991 | Other Saltwater (specify site names)                       |

**Freshwater**

- | No.  | Site Name                          |
|------|------------------------------------|
| 110  | Salmon River                       |
| 105  | Bartlett River                     |
| 127  | Mud Bay River                      |
| 128  | Game Creek                         |
| 129  | Neka River                         |
| 9994 | Other Streams (specify site names) |
| 9993 | Other Lakes (specify site names)   |

\* Glacier Bay proper is described as all marine contiguous water inside or north of a line from Pt. Carolus and Pt. Gustavus.

Fish Size Categories  
AREA G KING SALMON  
"Large" are 28 inches and over;  
"Small" are less than 28 inches.

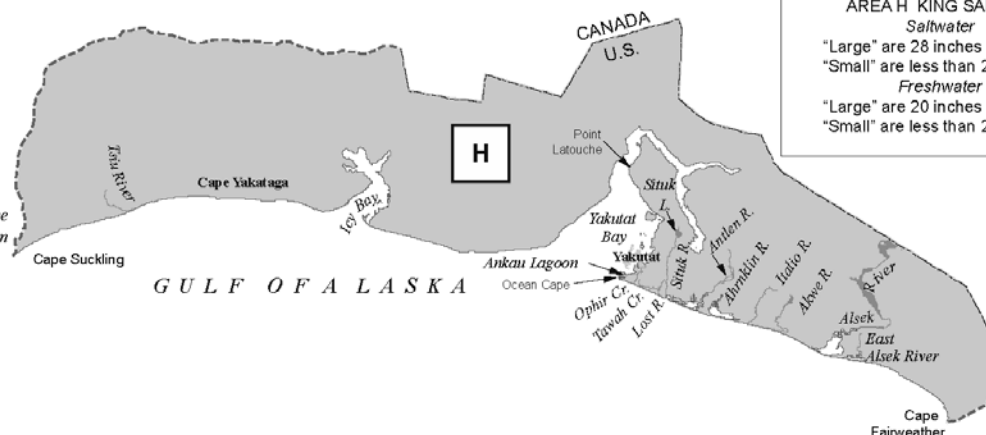
**GLACIER BAY AREA****H YAKUTAT AREA****Saltwater**

- | No.  | Site Name                            |
|------|--------------------------------------|
| 724  | Yakutat Bay                          |
| 750  | Ankau Lagoon                         |
| 9991 | Other Saltwater (specify site names) |

**Freshwater**

- | No.  | Site Name                          |
|------|------------------------------------|
| 135  | East Alsek River                   |
| 117  | Italio River                       |
| 120  | Lost River                         |
| 148  | Situk River, above weir**          |
| 149  | Situk River, below weir**          |
| 134  | Tsiu River                         |
| 9994 | Other Streams (specify site names) |
| 9993 | Other Lakes (specify site names)   |

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

**YAKUTAT AREA**

Fish Size Categories  
AREA H KING SALMON  
Saltwater

"Large" are 28 inches and over;  
"Small" are less than 28 inches.

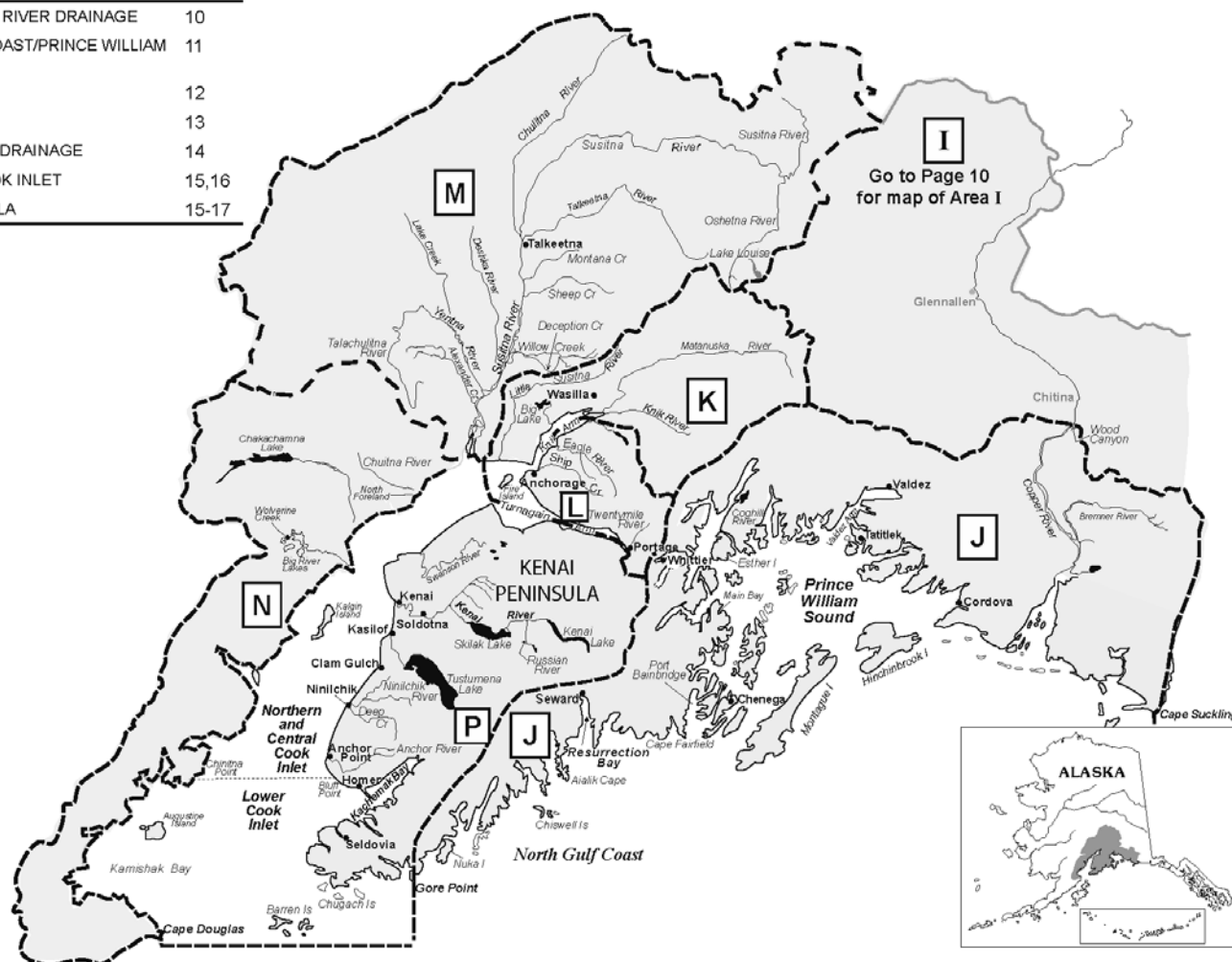
Freshwater

"Large" are 20 inches and over;  
"Small" are less than 20 inches.



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Area Code Letter	Area Description	Page
I	UPPER COPPER RIVER DRAINAGE	10
J	NORTH GULF COAST/PRINCE WILLIAM SOUND	11
K	KNIK ARM	12
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M	SUSITNA RIVER DRAINAGE	14
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**SPORT FISH SURVEY AREAS I - P**

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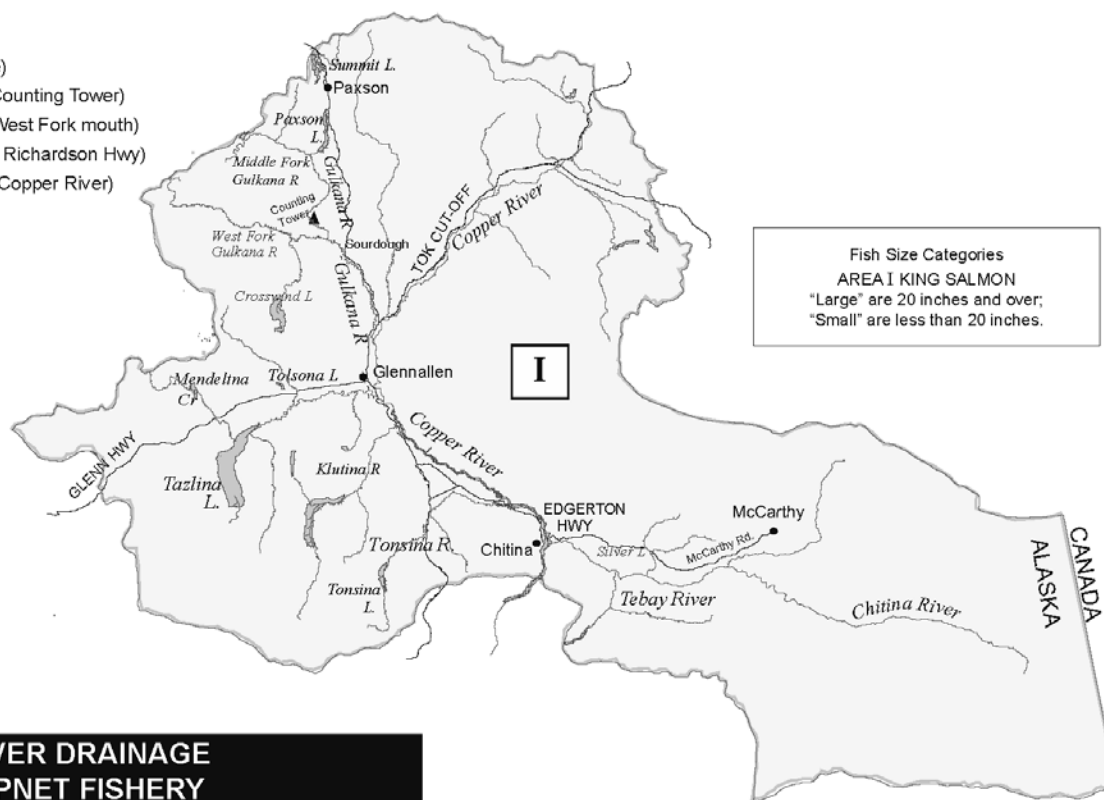
# I UPPER COPPER RIVER DRAINAGE SPORTFISHING

## SPORT FISHERIES

### *Freshwater*

<u>No.</u>	<u>Site Name</u>
8	Crosswind Lake
650	Gulkana River (Above Paxson Lake)
501	Gulkana River (Paxson L outlet to Counting Tower)
502	Gulkana River (Counting Tower to West Fork mouth)
600	Gulkana River (West Fork mouth to Richardson Hwy)
16	Gulkana River (Richardson Hwy to Copper River)
371	Middle Fork (Gulkana River tributary)
372	West Fork (Gulkana River tributary)
416	Klutina River
212	Mendeltna Creek
13	Paxson Lake
14	Summit Lake (near Paxson)
398	Tolsona Lake
287	Tonsina River
4	Silver Lake
9994	Other Streams (specify site names)
9993	Other Lakes (specify Site names)

## UPPER COPPER RIVER DRAINAGE



# I UPPER COPPER RIVER DRAINAGE PERSONAL USE DIPNET FISHERY

## Personal Use DIPNET FISHERY

<u>No.</u>	<u>Site Name</u>
9010	Copper River (near Chitina) Do not include fishwheel or subsistence dipnetting

TO SAVE POSTAGE, PLEASE DO **NOT** RETURN THIS BOOKLET WITH YOUR QUESTIONNAIRE.**J PRINCE WILLIAM SOUND/  
NORTH GULF COAST****SALTWATER SPORTFISHING FROM BOAT****Trip ENDED in Seward - Fish were caught in:**

No.	Site Name
1101	Resurrection Bay
1105	North Gulf Coast West of Aialik Cape
1106	North Gulf Coast East of Aialik Cape
1103	Western Prince William Sound
1104	Other site (specify)

**Trip ENDED in Whittier, Chenega, or other site in  
Western Prince William Sound - Fish were caught in:**

No.	Site Name
1201	Western Prince William Sound
1202	Eastern Prince William Sound
1203	Other Site (specify)

**Trip ENDED in Valdez - Fish were caught in:**

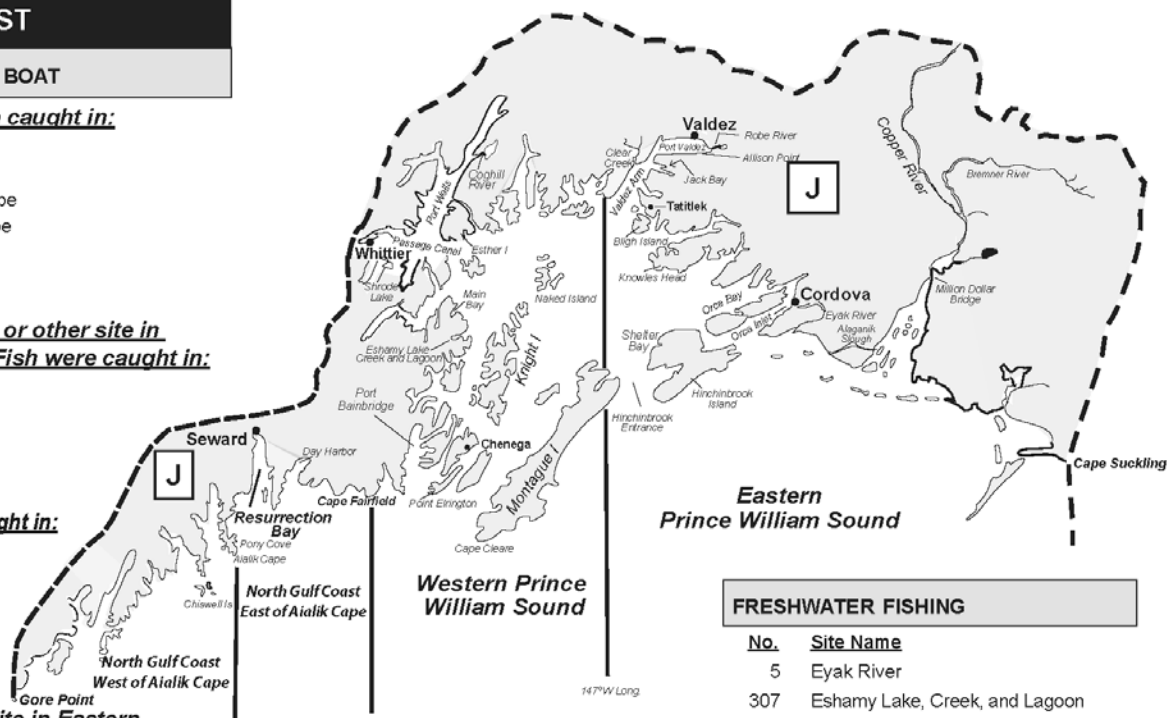
No.	Site Name
1301	Western Prince William Sound
1302	Eastern Prince William Sound
1305	Valdez Arm
1303	Other Site (specify)

**Trip ENDED in Cordova or other site in Eastern  
Prince William Sound - Fish were caught in:**

No.	Site Name
1401	Western Prince William Sound
1402	Eastern Prince William Sound
1403	Other Site (specify)

**Trip ENDED in OTHER Saltwater area than those listed  
above - Fish were caught in:**

No.	Site Name
9991	Other site (specify)

**PRINCE WILLIAM SOUND/NORTH GULF COAST AREA****FRESHWATER FISHING**

No.	Site Name
5	Eyak River
307	Eshamy Lake, Creek, and Lagoon
7	Coghill River
114	Alaganik Slough
222	Robe River
308	Clear Creek
12	Shrode Lake
9994	Other Streams (specify site names)
9993	Other Lakes (specify site names)

**SALTWATER FISHING FROM SHORELINE**

No.	Site Name
1008	Resurrection Bay (Seward)
759	Whittier, Passage Canal
727	Valdez Road System
747	Remainder of Valdez Arm (specify)
729	Orca Inlet (Cordova)
831	Allison Point
9992	Other Shoreline Site (specify)

Fish Size Categories  
AREA J KING SALMON  
"Large" are 20 inches and over;  
"Small" are less than 20 inches.

TO SAVE POSTAGE, PLEASE DO **NOT** RETURN THIS BOOKLET WITH YOUR QUESTIONNAIRE.**K KNIK ARM AREA****KNIK ARM AREA****Saltwater****No. Site Name**

- 1 Fish Creek Area  
9991 Other Saltwater (specify site names)

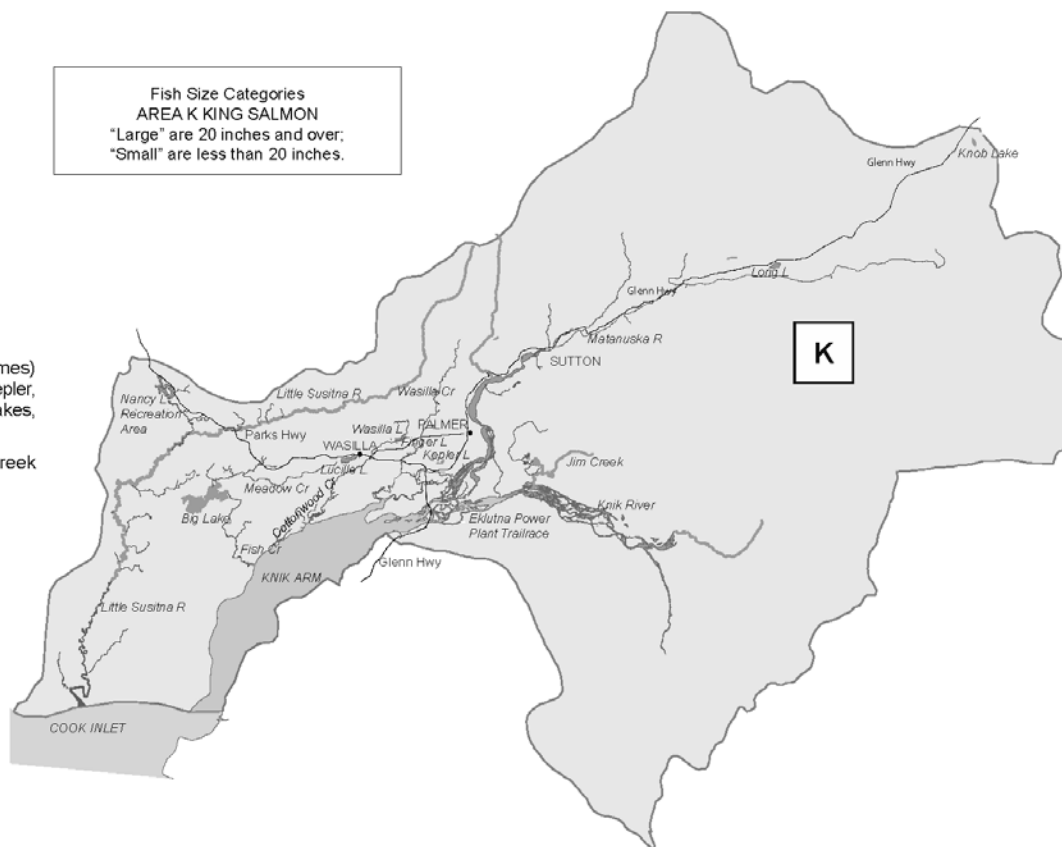
**Freshwater****Knik Arm Area****No. Site Name**

- 12 Big Lake  
7 Cottonwood Creek  
14 Eklutna Power Plant Raceway  
9 Finger Lake  
234 Fish Creek, Big Lake Drainage  
10 Kepler Lake Complex (specify site names)  
Includes Bradley, Canoe, Echo, Irene, Kepler, Klair, Matanuska, Silver, and Victor lakes, and Long Lake  
5 Knik River and tributaries including Jim Creek  
4 Little Susitna River  
11 Lucille Lake  
6 Wasilla Creek (Rabbit Slough)  
8 Wasilla Lake  
9994 Other Streams (specify site names)  
9993 Other Lakes (specify site names)  
If Long Lake, specify location:  
• Kepler Lakes Complex (K 294)  
• Mile 85 Glenn Hwy (K 221)  
• In the Willow area (K 316)  
• In the Big Lake area (K 300)

**Nancy Lake Recreation Area Sites****No. Site Name**

- 13 Nancy Lake  
241 South Rolly Lake  
244 Other sites within Recreation Area (specify)

Fish Size Categories  
AREA K KING SALMON  
"Large" are 20 inches and over;  
"Small" are less than 20 inches.

**K1 FISH CREEK PERSONAL USE DIPNET FISHERY****Personal Use DIPNET FISHERY****No. Site Name**

- 9000 Fish Creek (Big Lake Drainage) - Personal Use Sockeye Salmon

TO SAVE POSTAGE, PLEASE DO **NOT** RETURN THIS BOOKLET WITH YOUR QUESTIONNAIRE.**L ANCHORAGE AREA****Saltwater****No. Site Name**

- 9991 Other Boat sites (specify site names)  
 9992 Other Shoreline sites (specify site names)

**Freshwater****Anchorage Area Streams****No. Site Name**

- 14 Ship Creek  
 15 Bird Creek  
 16 Campbell Creek  
 17 Twentymile River  
 218 Ingram Creek  
 18 Eagle River  
 9994 Other Streams (specify)

**Eagle River/Chugiak Lakes****No. Site Name**

- 21 Beach Lake  
 139 Eklutna Lake  
 6 Lower Fire Lake  
 7 Mirror Lake  
 228 Symphony Lake  
 302 Other Eagle River/Chugiak Lakes (specify)

**Anchorage Area Lakes****No. Site Name**

- 4 Campbell Point Lake  
 20 C Street Lake (Taku-Campbell Lake)  
 23 Cheney Lake  
 138 DeLong Lake  
 3 Jewel Lake  
 215 Lake Otis  
 5 Sand Lake  
 24 University (APU) Lake  
 9993 Other Lakes (specify site names)

**Elmendorf Air Force Base Lakes****No. Site Name**

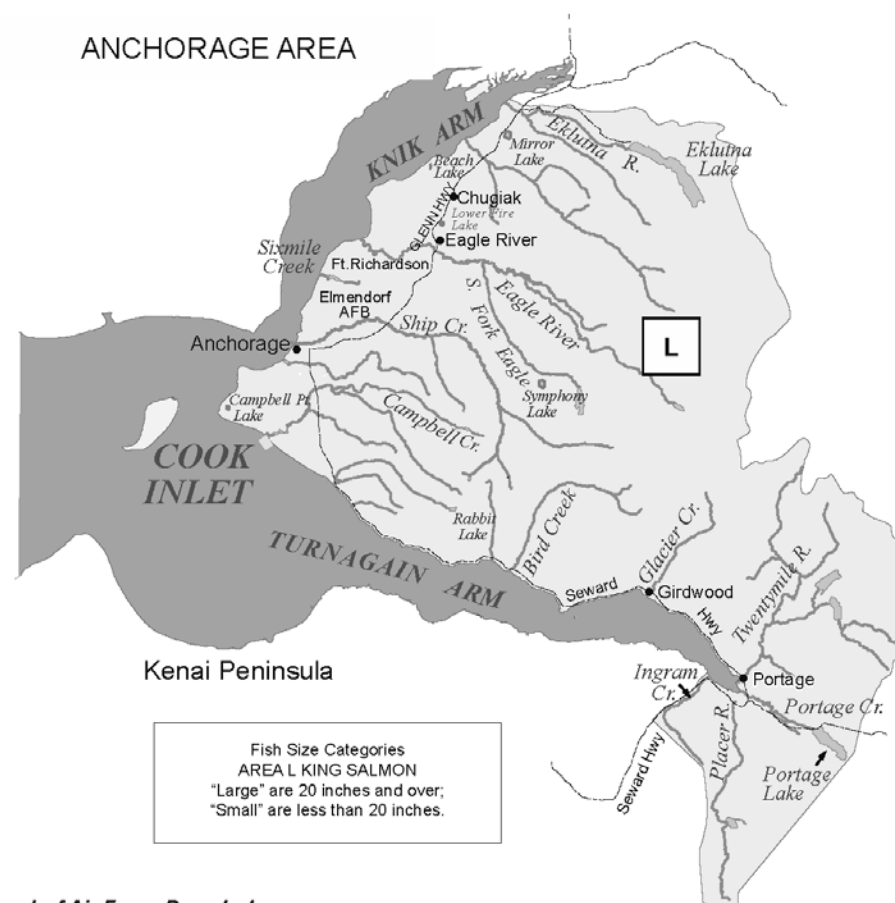
- 22 Fish Lake  
 12 Green Lake  
 13 Hillberg Lake  
 11 Sixmile Lake  
 188 Spring Lake  
 19 Triangle Lake

**Fort Richardson Lakes****No. Site Name**

- 9 Clunie Lake  
 210 Dishno Pond  
 10 Gwen Lake  
 8 Otter Lake  
 208 Walden Lake

**Turnagain Arm Lakes****No. Site Name**

- 226 Rabbit Lake  
 223 Alder Pond  
 227 Tangle Pond  
 229 Airstrip Willow Pond



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**M** SUSITNA RIVER DRAINAGE

SUSITNA RIVER DRAINAGE

*Freshwater*

<u>No.</u>	<u>Site Name</u>
1117	Alexander Creek
1118	Alexander Lake
117	Birch Creek
5	Caswell Creek
8	Clear (Chunilna) Creek
1347	Deshka River above weir (weir is at river mile 7)
1348	Deshka River below weir
1171	Fish Lake Creek & Fish Lakes (Yentna Drainage)
138	Goose Creek
143	Kashwitna River
1004	Lake Creek
3010	Lake Louise
10	Little Willow Creek
6	Montana Creek
9	Sheep Creek
1239	Skwentna River
7	Sunshine Creek
3011	Susitna Lake
1251	Susitna River
1007	Talachulitna River
170	Talkeetna River
1262	Trapper Lake
181	Troublesome Creek
3295	Tyone Creek
4	Willow Creek
1277	Yentna River
9993	Other Lakes (specify site names)
9994	Other Streams (specify site names)



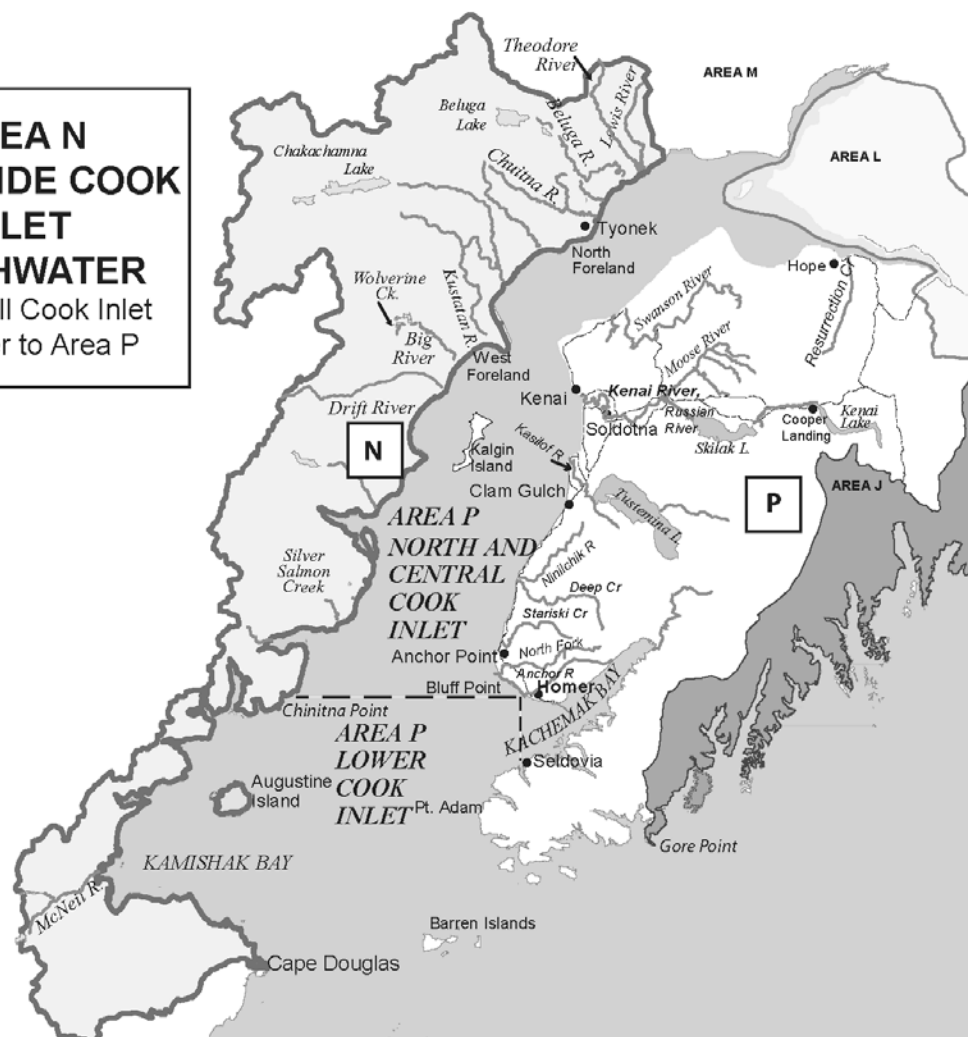
Fish Size Categories  
AREA M KING SALMON  
"Large" are 20 inches and over;  
"Small" are less than 20 inches.

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**AREA N**  
**WEST SIDE COOK**  
**INLET**  
**FRESHWATER**  
Record all Cook Inlet  
saltwater to Area P

**AREA P**  
**KENAI PENINSULA/**  
**COOK INLET**  
For map of Kenai River  
See Page 17

(Does NOT include Resurrection Bay;  
see Page 11, Area J).



For Site Number listings, go to pages 16 and 17

TO SAVE POSTAGE, PLEASE DO **NOT** RETURN THIS BOOKLET WITH YOUR QUESTIONNAIRE.**N WEST SIDE COOK INLET  
SPORTFISHING****Saltwater**

In Area N, all fishing sites are Freshwater.  
Record all Cook Inlet Saltwater to Area P.

**Freshwater****North of North Foreland Fishing Sites****No. Site Name**

- 8 Chuitna River  
10 Lewis River  
9 Theodore River  
332 Other Sites (specify site names)

**South of North Foreland Fishing Sites**

- 186 Kustatan River  
125 Big River Lakes  
340 Wolverine Creek (by Big River Lakes)  
237 Silver Salmon Creek  
333 Other Sites (specify site names)

**P KENAI PENINSULA/COOK  
INLET SPORTFISHING****Saltwater****No. Site Name**

- 980 Cook Inlet north of Bluff and Chinitna Points  
(including saltwaters by Anchor River, Whiskey  
Gulch, Deep Creek and Ninilchik rivers)  
796 Kachemak Bay (including Bluff Point area to  
Seldovia)  
952 Lower Cook Inlet sites west of Gore Point and  
Kachemak Bay (not including Kachemak Bay)  
823 Homer Spit (Fishing on the Spit)  
991 Other Lower Cook Inlet and Kachemak Bay  
Shoreline sites (specify site names)

**P KENAI PENINSULA  
SPORTFISHING****Freshwater****No. Site Name**

- 5 Anchor River  
147 Crescent Lake  
7 Deep Creek  
12 Hidden Lake  
1 Kenai River - Cook Inlet to Soldotna Bridge  
2 Kenai River - Soldotna Bridge to Moose River  
3 Kenai River - Moose River to Skilak Outlet  
4 Kenai River - Skilak Inlet to Kenai Lake  
500 Kasilof River - Bank Fishing  
600 Kasilof River - Boat Fishing  
6 Ninilchik River  
218 Quartz Creek  
261 Resurrection Creek (near Hope)  
8 Stariski Creek  
9 Russian River (include all fishing in the 1,800  
yard section of the Kenai River immediately  
downstream from the Russian River)  
228 Skilak Lake  
334 Swanson River  
14 Swanson River Canoe Route Lakes  
226 Sixmile Creek Drainage, including Granite,  
East Fork, and Canyon Creeks  
15 Swan Lake Canoe System  
244 Tustumena Lake  
9994 Other Streams (specify site names)  
9993 Other Lakes (specify site names)

Fish Size Categories  
AREAS N and P KING SALMON  
"Large" are 20 inches and over;  
"Small" are less than 20 inches.

**P SHELLFISH FISHERIES  
EAST COOK INLET/  
KENAI PENINSULA****Shellfish Fisheries****No. Site Name**

- 797 Kachemak Bay (including Bluff Point to Seldovia)  
1000 CLAMS: Between Anchor Point and Kasilof  
River (including Whiskey Gulch, Deep Creek,  
Ninilchik, Clam Gulch and Coho beaches)  
953 Lower Cook Inlet sites west of Gore Point and  
Kachemak Bay (not including Kachemak Bay)  
4 Other East Cook Inlet Shellfish sites (specify)

**P SHELLFISH FISHERIES  
WEST SIDE COOK INLET****Shellfish Fisheries****No. Site Name**

- 16 Polly Creek Beach/Crescent River Bar  
700 Shellfish, north of Chinitna Point  
710 Shellfish, south of Chinitna Point  
1004 Other West Cook Inlet Shellfish sites (specify)

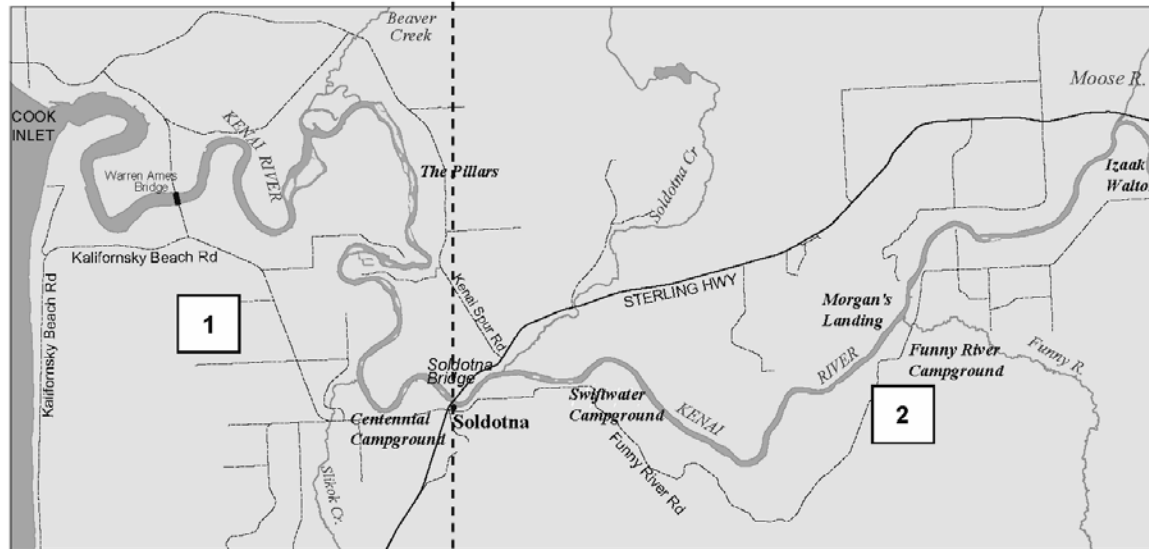
**P PERSONAL USE  
DIPNET FISHERIES  
KENAI PENINSULA****Net Fisheries****No. Site Name**

- 9001 China Poot (dipnet)  
9002 Kenai River (dipnet)  
9003 Kasilof River (dipnet)  
9007 Kasilof River (gillnet)



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## AREA P KENAI RIVER FISHING SITES

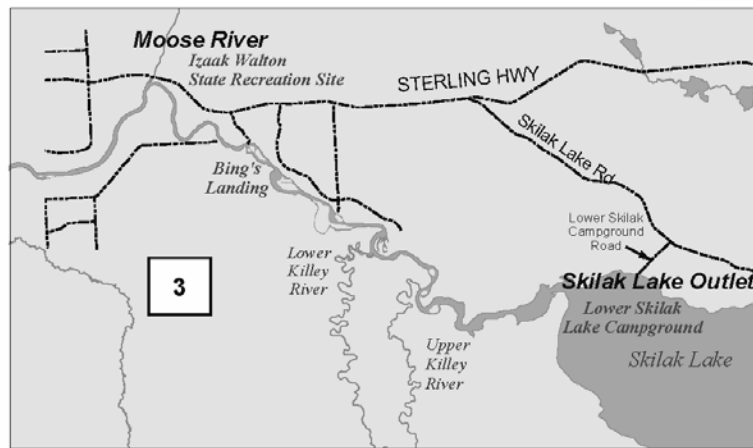


Area Code Letter P

Site No. 1 Kenai River - Cook Inlet to Soldotna Bridge

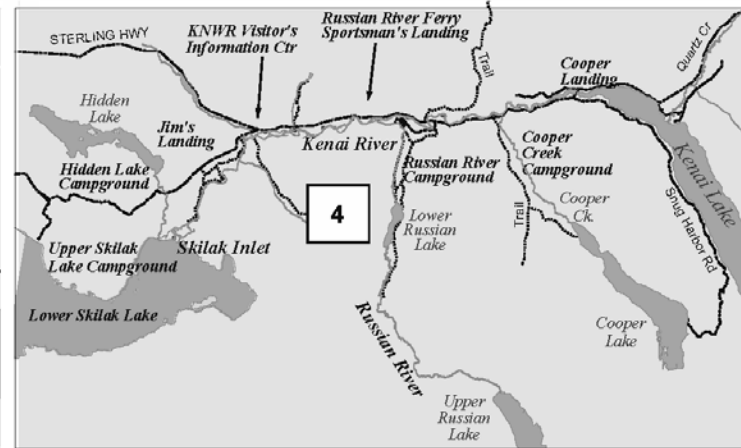
Area Code Letter P

Site No. 2 Kenai River - Soldotna Bridge to Moose River



Area Code Letter P

Site No. 3 Kenai River - Moose River to Skilak Outlet



Area Code Letter P

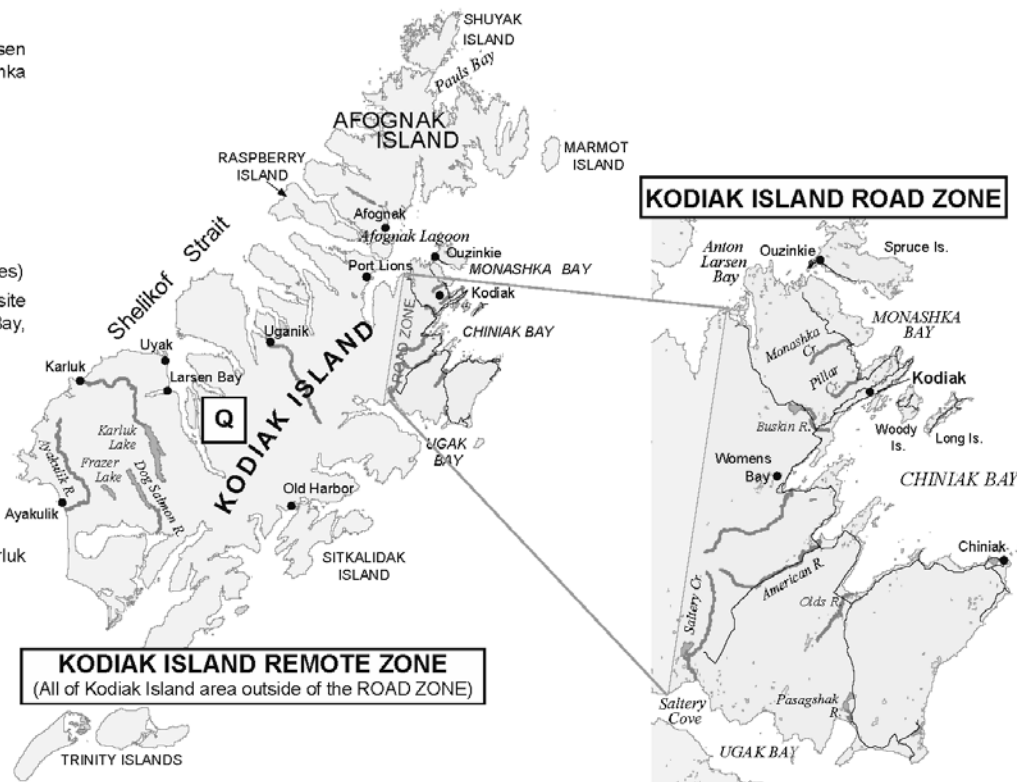
Site No. 4 Kenai River - Skilak Inlet to Kenai Lake

TO SAVE POSTAGE, PLEASE DO NOT RETURN THIS BOOKLET WITH YOUR QUESTIONNAIRE.**Q KODIAK AREA****Saltwater**

- | No. | Site Name   |
|-----|---|
| 736 | Chiniak Bay area from Cape Greville to Anton Larsen Bay, including Cape Chiniak, Mill Bay, Monashka Bay, Spruce Island and all of Chiniak Bay |
| 800 | Shuyak Area   |
| 814 | Afognak Island  |
| 812 | Pauls Bay   |
| 770 | Uyak Bay  |
| 887 | Afognak Lagoon (Litnik)   |
| 932 | Other Remote Saltwater Sites (specify site names)   |
| 934 | Other Roadside Saltwater Sites (specify site names) Includes Narrow Cape, Pasagshak Bay, and Saltery Cove areas, and Barry Lagoon             |

**Freshwater**

- | No. | Site Name  |
|-----|--|
| 114 | American River   |
| 174 | Ayakulik (Red) River   |
| 3   | Buskin River   |
| 277 | Karluk Lake and River ABOVE the weir (the weir is located 0.5 miles upstream of Karluk Lagoon on the Karluk River) |
| 278 | Karluk Lagoon and River BELOW the weir   |
| 163 | Olds River (or Creek)  |
| 275 | Pasagshak Drainage   |
| 276 | Saltery Cove Drainage  |
| 108 | Roadside Lakes (specify site names)  |
| 109 | Other Lakes (Remote Zone) specify site names   |
| 105 | Roadside Streams (specify site names)  |
| 106 | Other Streams (Remote Zone) specify site names   |



Fish Size Categories  
 AREA Q KING SALMON  
 "Large" are 20 inches and over;  
 "Small" are less than 20 inches.

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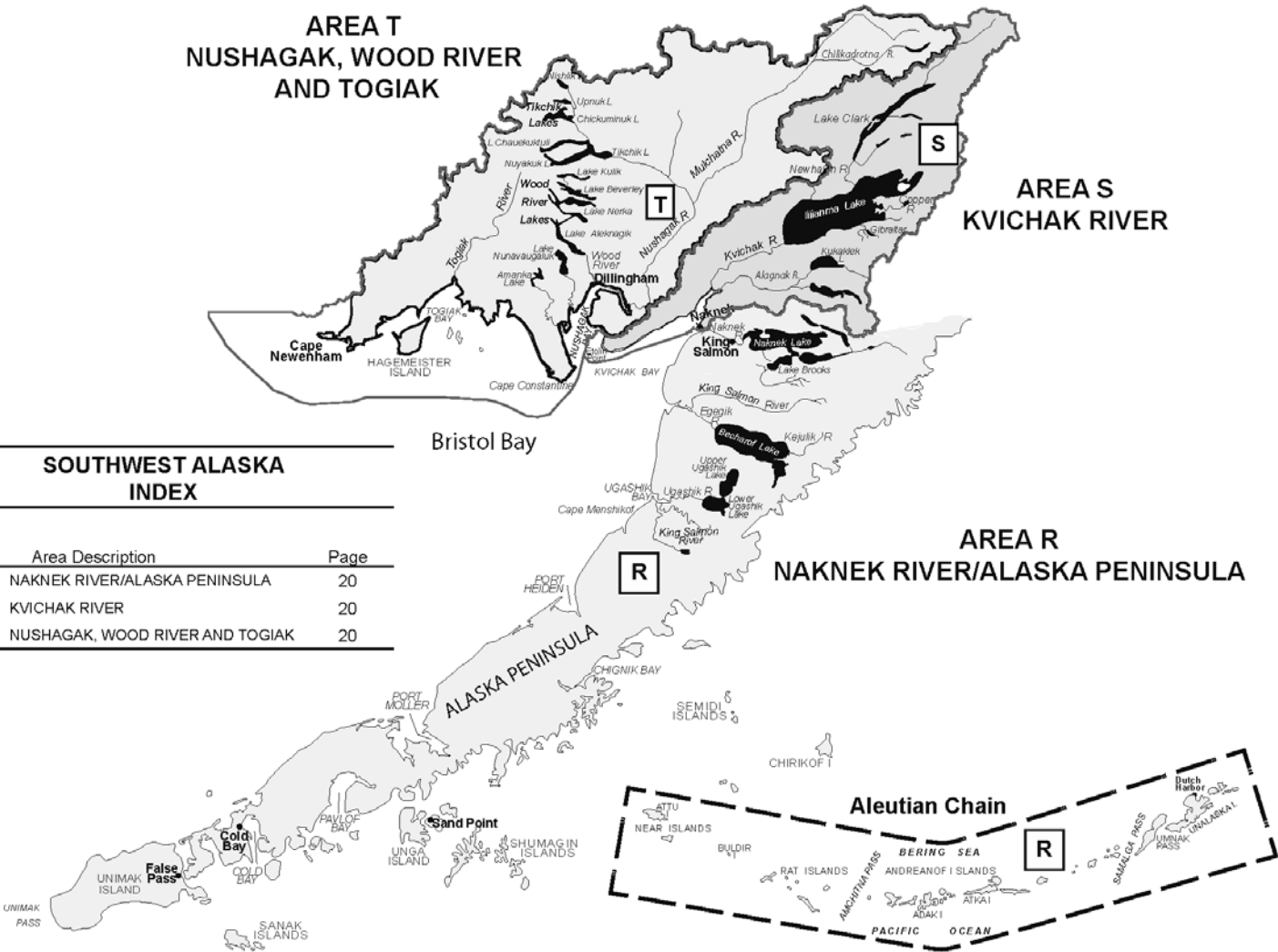
SOUTHWEST ALASKA AREAS R-T

AREA T  
NUSHAGAK, WOOD RIVER  
AND TOGIAK

AREA S  
KVICHAK RIVER

AREA R  
NAKNEK RIVER/ALASKA PENINSULA

SOUTHWEST ALASKA INDEX		
Area Code Letter	Area Description	Page
R	NAKNEK RIVER/ALASKA PENINSULA	20
S	KVICHAK RIVER	20
T	NUSHAGAK, WOOD RIVER AND TOGIAK	20



TO SAVE POSTAGE, PLEASE DO **NOT** RETURN THIS BOOKLET WITH YOUR QUESTIONNAIRE.**SOUTHWEST ALASKA**

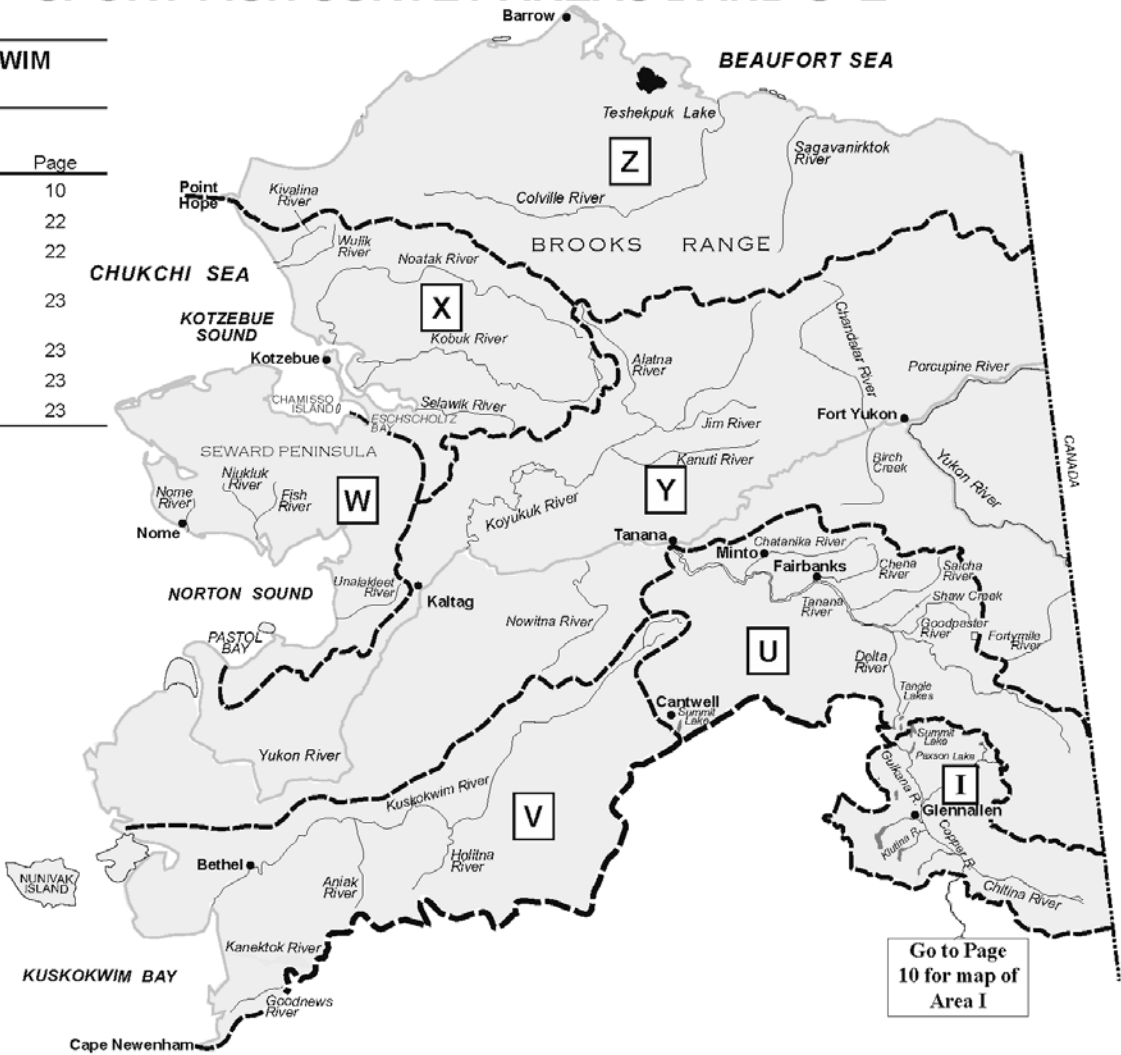
<b>R</b> NAKNEK RIVER/ALASKA PENINSULA AREA	<b>S</b> KVICHAK RIVER DRAINAGE	<b>T</b> NUSHAGAK, WOOD RIVER, AND TOGIAK AREA
<b>Saltwater</b>	<b>Saltwater</b>	<b>Saltwater</b>
<b>No. Site Name</b>	<b>No. Site Name</b>	<b>No. Site Name</b>
1 Cold Bay Area	9991 Specify site names	9991 Specify site names
756 Unalaska Bay Area		
900 Boat - Cape Menshikof north to Naknek Bay (specify includes Ugashik, Egegik, and Naknek Bays)	<b>Freshwater</b>	<b>Freshwater</b>
950 Boat - Other Alaska Peninsula <u>not</u> in Cold Bay, or in Unalaska Bay west of Cape Menshikof and Cape Douglas (specify)	<b>No. Site Name</b>	<b>Nushagak River Sites:</b>
9991 Other Saltwater (specify site names)	8 Alagnak (Branch) River	Do not include Mulchatna River and tributaries, Kokwok, and Iowithla Rivers (See other Area T sites, below)
	141 Battle River	<b>No. Site Name</b>
	5 Copper River (tributary of Iliamna Lake)	207 Nushagak River from Black Point upstream to sonar site (by Portage Creek)
<b>Freshwater</b>	146 Funnel Creek	208 Nushagak River, sonar site (by Portage Creek) upstream to outlet of Mulchatna River
<b>No. Site Name</b>	6 Gilbraltar Lake	190 Nushagak River, upstream from outlet of Mulchatna River
182 American Creek	170 Gilbraltar River	3 Remainder of Nushagak System (specify)
12 Becharof System (including Becharof Lake, Kejulik and Egegik rivers, and Shosky Creek)	125 Iliamna Lake	
13 Brooks Lake	120 Iliamna River	<b>Other Area T Sites:</b>
10 Brooks River	183 Kukaklek River (Big Ku)	<b>No. Site Name</b>
130 Chignik River	123 Kulik River	7 Mulchatna River
5 Cold Bay Area (including Russel Creek)	3 Kvichak River	112 Lake Aleknagik
8 Naknek Lake - Bay of Islands	9 Lake Clark	111 Agulowak River
9 Naknek Lake - Other	134 Moraine Creek	128 Agulukpak River
275 Naknek River upstream section, from Rapids Camp 9 miles upstream to Naknek Lake Outlet, including tributaries	7 Newhalen River	4 Other Wood River Lakes System (includes lakes Nerka, Beverley, and Kulik)
279 Naknek River, downstream section, from Rapids Camp downstream 19 miles to saltwater, including tributaries. Includes Naknek River near the community of King Salmon.	4 Lower Talarik Creek	206 Nuyakuk River
11 Ugashik System, including Ugashik River, and Upper/Lower Ugashik Lakes	139 Upper Talarik Creek	5 Other Tikchik-Nuyakuk Lake System (includes Nuyakuk, Tikchik, Chickuminuk, Nishlik, and Upnuk lakes, and Lake Chauekuktuli)
281 Unalaska Bay Streams	9994 Other Streams (specify site names)	6 Togiak River (Including Togiak River/Lake drainage area)
9994 Other Streams (specify Site names)	9993 Other Lakes (specify site names)	9994 Other Streams (specify site names)
If King Salmon River, specify location:		9993 Other Lakes (specify site names)
• near the community of King Salmon (R 143)		
• near Egegik Bay (R 144)		
• near Ugashik Bay (R 194)		
• near Port Moller (R 195)		
9993 Other Lakes (specify site names)		

Fish Size Categories  
 AREA R-T KING SALMON  
 "Large" are 20 inches and over;  
 "Small" are under 20 inches

TO SAVE POSTAGE, PLEASE DO NOT RETURN THIS BOOKLET WITH YOUR QUESTIONNAIRE.

ARCTIC-YUKON-KUSKOKWIM  
SPORT FISH SURVEY AREAS I AND U-Z

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## ARCTIC-YUKON-KUSKOKWIM

**U TANANA RIVER DRAINAGE****Freshwater Lakes and Ponds**

<b>No.</b>	<b>Site Name</b>
9	Birch Lake
347	Chena Hot Springs Road ponds (along the Chena Hot Springs Road from mile 30 to mile 50)
18	Chena Lake Recreation Area
584	Coal Mine Road Lakes (Accessible from the Coal Mine Road, mile 242 Richardson Hwy, approximately 22 miles south of Delta Junction)
408	Dune Lake
163	East Twin Lake
13	Fielding Lake
11	George Lake
189	Harding Lake
201	Koole Lake
583	Meadow Road Lakes (along the Meadow and Ridge roads in the southern part of Fort Greely Military Reservation, including Weasel Lake)
14	Minto Flats; lakes and rivers of Minto Flats State Game Refuge
10	Quartz Lake
346	Steesse Ponds (along the Steese Highway from mile 30 to mile 40)
15	Tangle Lakes and River (including Long Tangle, Lower Tangle, Landlocked Tangle, Round Tangle, and Upper Tangle lakes)
12	Volkmar Lake
9993	Other Lakes (specify site names)

**Freshwater Streams**

<b>No.</b>	<b>Site Name</b>
137	Brushkana Creek
613	Lower Chatanika River and tributaries (downstream of Elliot Highway)
614	Upper Chatanika River and tributaries (upstream of Elliot Highway)
1050	Lower Chena River (Lower Chena River and tributaries) from the mouth upstream to the Moose Creek Dam at river mile 45. Includes all parts of Badger (Chena) Slough
1051	Upper Chena River (Upper Chena River and tributaries upstream of the Moose Creek Dam at river mile 45)
6	Delta Clearwater Creek
17	Delta River (below Tangle Lakes)
8	Goodpaster River
513	Nenana R. drainage ( <u>not</u> including Brushkana Cr.)
319	Piledriver Slough (including Moose Creek)
7	Richardson Clearwater Creek
5	Salcha River
16	Shaw Creek
514	Lower Tanana River downstream from Nenana (mainstem only)
515	Middle Tanana River between Delta Junction and Nenana (mainstem only)
516	Upper Tanana River upstream from Delta Junction (mainstem only)
9994	Other Streams (specify site names)

**V KUSKOKWIM RIVER-KUSKOKWIM BAY DRAINAGES****Saltwater****No. Site Name**

9991 Specify site names

**Freshwater****Kuskokwim River upstream of Aniak R.****No. Site Name**

300 Kuskokwim River mainstem above Aniak River

6 Holitna River

134 George River

301 Other Streams (specify site names)

302 Lakes (specify Site names)

**Kuskokwim River downstream of Aniak R.****No. Site Name**

310 Kuskokwim River mainstem below Aniak River

5 Aniak River

43 Kisaralik River

19 Kwethluk River

311 Other Streams (specify Site names)

312 Lakes (specify Site names)

**Kuskokwim Bay Streams and Lakes****No. Site Name**

3 Kanektok River

4 Goodnews River

321 Other Streams (specify site names)

322 Lakes (specify site names)

Fish Size Categories  
AREA U-V KING SALMON  
"Large" are 20 inches and over;  
"Small" are less than 20 inches.

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## ARCTIC-YUKON-KUSKOKWIM

**W SEWARD PENINSULA/  
NORTON SOUND  
AREA****Saltwater****No. Site Name**

9991 Specify site names

**Freshwater****No. Site Name**

- 11 Eldorado River
- 112 Fish River and tributaries (including Pargon, Rathlatulik, and Boston Creek; excludes Niukluk River)
- 210 Niukluk River and tributaries (below the ADF&G Tower)
- 211 Niukluk R. and tributaries (above the ADF&G Tower, including Casadepaga River)
- 30 Flambeau River
- 14 Fox River
- 18 Kuzitrin River
- 4 Nome River
- 94 North River
- 6 Pilgrim River
- 41 Shaktolik River
- 22 Sinuk River
- 12 Snake River
- 15 Solomon River
- 3 Unalakleet River
- 9994 Other Streams (specify site names)
- 9993 Lakes (specify site names)

Fish Size Categories  
AREAS W - Z KING SALMON  
"Large" are 20 inches and over;  
"Small" are less than 20 inches.

**X NORTHWEST  
ALASKA  
AREA****Saltwater****Site Name**

9991 Specify site names

**Freshwater****Site Name**

- 78 Desperation Lake
- 13 Feniak Lake
- 16 Kelly River
- 17 Kivalina River
- 4 Kobuk River
- 32 Matcharak Lake
- 3 Noatak River
- 24 Selawik River
- 27 Squirrel River
- 28 Walker Lake
- 5 Wulik River
- 9994 Other Streams (specify site names)
- 9993 Other Lakes (specify site names)

**Y YUKON RIVER DRAINAGE****Yukon R Drainage, Downstream from Koyukuk R****No. Site Name**

- 147 Andreafsky River
- 148 Anvik River
- 182 Innoko River
- 247 Other sites Yukon River downstream from Koyukuk River (specify)

**Yukon R Drainages, Koyukuk R to Ft Yukon****ACCESSED from Dalton Hwy (Haul Road)****No. Site Name**

- 15 Jim River
- 400 Kanuti River (accessed from Dalton Highway)
- 410 Koyukuk River Middle Fork (accessed from Dalton Hwy)
- 420 Koyukuk River South Fork (accessed from Dalton Hwy)
- 899 Other Streams accessed from Dalton Hwy (specify)
- 898 Other Lakes accessed from Dalton Hwy (specify)

**Yukon R Drainages, Koyukuk R to Fort Yukon****NOT ACCESSED from Dalton Hwy (Haul Road)**

- 500 Kanuti River (not accessed from Dalton Hwy)
- 510 Koyukuk River Middle Fork (not accessed from Dalton Hwy)
- 520 Koyukuk River South Fork (not accessed from Dalton Hwy)
- 16 Koyukuk R mainstem (downstream from confluence with South Fork, not accessed from Dalton Hwy)
- 204 Nowitna River
- 94 Dall River
- 202 Beaver and Nome creeks (Steese Highway)
- 255 Birch Creek (Steese Highway)
- 24 Porcupine River Drainage
- 248 Other sites, Koyukuk R to Fort Yukon (specify)

**Yukon R Drainages, Fort Yukon to Canadian Border****No. Site Name**

- 249 Other Sites (specify site names)

**Z NORTH SLOPE/  
BROOKS  
RANGE AREA****Saltwater****No. Site Name**

9991 Specify site names

**Freshwater****Lakes Near Dalton Highway  
(Haul Road)****No. Site Name**

- 43 Toolik Lake
- 60 Galbraith Lake
- 99 Other Lakes (specify)

**Streams Near the Dalton  
Hwy (Haul Road)****No. Site Name**

- 76 Sagavanirktok River
- 100 Other Streams (specify)

**Remainder of North Slope-  
Brooks Range Area****No. Site Name**

- 14 Kongakut River
- 9994 Other Streams (specify)
- 9993 Other Lakes (specify)

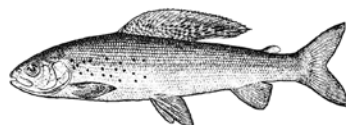
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**THANK YOU!**  
**YOUR PARTICIPATION SUPPORTS SUSTAINABLE SPORT FISHERIES THROUGHOUT THE STATE OF ALASKA.**

Feel free to call us if we can assist you at (907) 267-2280 or, email us at: [dfg.dsf.publications@alaska.gov](mailto:dfg.dsf.publications@alaska.gov)

Please visit our website, which provides current and historic information gathered from this vital survey.  
Our web address is: <http://www.sf.adfg.state.ak.us/Statewide/ParticipationAndHarvest/index.cfm>



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