# **Economic Impacts and Contributions of Sportfishing** in Alaska, 2007

by

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and

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December 2008

**Alaska Department of Fish and Game** 

**Division of Sport Fish** 



#### **Symbols and Abbreviations**

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

Weights and measures (metric)		General		Measures (fisheries)	
centimeter	cm	Alaska Administrative		fork length	FL
deciliter	dL	Code	AAC	mideye to fork	MEF
gram	g	all commonly accepted		mideye to tail fork	METF
hectare	ha	abbreviations	e.g., Mr., Mrs.,	standard length	SL
kilogram	kg		AM, PM, etc.	total length	TL
kilometer	km	all commonly accepted			
liter	L	professional titles	e.g., Dr., Ph.D.,	Mathematics, statistics	
meter	m		R.N., etc.	all standard mathematical	
milliliter	mL	at	(a)	signs, symbols and	
millimeter	mm	compass directions:		abbreviations	
		east	E	alternate hypothesis	$H_A$
Weights and measures (English)		north	N	base of natural logarithm	e
cubic feet per second	ft <sup>3</sup> /s	south	S	catch per unit effort	CPUE
foot	ft	west	W	coefficient of variation	CV
gallon	gal	copyright	©	common test statistics	$(F, t, \chi^2, etc.)$
inch	in	corporate suffixes:		confidence interval	CI
mile	mi	Company	Co.	correlation coefficient	0.1
nautical mile	nmi	Corporation	Corp.	(multiple)	R
ounce	oz	Incorporated	Inc.	correlation coefficient	
pound	lb	Limited	Ltd.	(simple)	r
quart	qt	District of Columbia	D.C.	covariance	cov
yard	yd	et alii (and others)	et al.	degree (angular )	0
yara	yu	et cetera (and so forth)	etc.	degrees of freedom	df
Time and temperature		exempli gratia		expected value	E
day	d	(for example)	e.g.	greater than	>
degrees Celsius	°C	Federal Information	Č	greater than or equal to	≥
degrees Fahrenheit	°F	Code	FIC	harvest per unit effort	HPUE
degrees kelvin	K	id est (that is)	i.e.	less than	<
hour	h	latitude or longitude	lat. or long.	less than or equal to	<b>≤</b>
minute	min	monetary symbols	Č	logarithm (natural)	ln
second	S	(U.S.)	\$, ¢	logarithm (base 10)	log
5000114	J	months (tables and	• • • • • • • • • • • • • • • • • • • •	logarithm (specify base)	log <sub>2</sub> etc.
Physics and chemistry		figures): first three		minute (angular)	1
all atomic symbols		letters	Jan,,Dec	not significant	NS
alternating current	AC	registered trademark	®	null hypothesis	Ho
ampere	A	trademark	TM	percent	%
calorie	cal	United States		probability	P
direct current	DC	(adjective)	U.S.	probability of a type I error	•
hertz	Hz	United States of		(rejection of the null	
horsepower	hp	America (noun)	USA	hypothesis when true)	α
hydrogen ion activity	pН	U.S.C.	United States	probability of a type II error	
(negative log of)	P		Code	(acceptance of the null	
parts per million	ppm	U.S. state	use two-letter	hypothesis when false)	β
parts per thousand	ppt,		abbreviations	second (angular)	"
r or r	% %		(e.g., AK, WA)	standard deviation	SD
volts	V			standard error	SE
watts	W			variance	~-
	• •			population	Var
				sample	var
				Sample	

#### PROFESSIONAL PUBLICATION NO. 08-01

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December 2008

The Professional Paper Publication Series includes manuscripts that address issues of concern to the department and are prepared for publication outside the Alaska Department of Fish and Game publication series. These papers primary audience are fisheries professionals and is available through the Alaska State Library and on the Internet: <a href="http://www.sf.adfg.state.ak.us/statewide/divreports/html/intersearch.cfm">http://www.sf.adfg.state.ak.us/statewide/divreports/html/intersearch.cfm</a>. This report has undergone regional and outside review.

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This document should be cited as:

Southwick Associates Inc. and W. J. Romberg, A. E. Bingham, G. B. Jennings, and R. A. Clark. 2008. Economic impacts and contributions of sportfishing in Alaska, 2007. Alaska Department of Fish and Game, Professional Paper No. 08-01, Anchorage.

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### **TABLE OF CONTENTS**

	rage
LIST OF TABLES	iii
LIST OF FIGURES	vi
EXECUTIVE SUMMARY	ix
Angler Survey	
Alaska Sportfishing Guide Business Survey	xii
Economic Analysis/Modeling	xii
Economic Contributions of Sportfishing	xiii
Statewide Spending and Economic Contributions	
Angler Spending and Economic Contributions in the Southeast Region	
Angler Spending and Economic Contributions in the Interior Region	
ECONOMIC IMPACTS AND CONTRIBUTIONS OF SPORTFISHING IN ALASKA, 2007	
ABSTRACT	1
INTRODUCTION	1
STUDY DESIGN AND METHODS	4
DATA COLLECTION	5
Survey Design	5
Sampling Frame and Sample Sizes	9
Questionnaire Design	12
Questionnaire Mailing and Response Processing Protocols  Data Entry and Quality Controls	
DATA ANALYSIS	21
Non-Package Trip Expenditures	21
Package Trip Expenditures	24
Fishing Equipment Expenditures	26
Real Estate Expenditures	28
Aggregation of Seasonal Per-Day Trip Expenditures to Reflect Total Angler Days	29
ECONOMIC ANALYSIS/MODELING	32
Industry Sector Assignment.	34
Alaska Sportfishing Guide Business Survey	35
Regional Economic Models	36
RESULTS	38
Angler Effort and Economic Contributions	38
Overview	
Statewide	45
Angler Days	
Expenditures Economic Contributions	
Southeast Region	
Angler Days	
Expenditures	

### **TABLE OF CONTENTS**

Economic Contributions	Page
Southcentral Region	
Angler Days	
Expenditures	69
Economic Contributions	
Interior Region.	
Angler Days Expenditures	
Economic Contributions	
Cook Inlet Subregion	90
Angler Days	
Expenditures	
Southeast Marine Subregion	
Angler Days	
Expenditures	101
Economic Contributions	
SUMMARY AND DISCUSSION	
Major Findings	
Study Limitations	
Sampling Errors	
Response Bias	
Interpreting the Results.	115
APPENDIX A: WAVE I RESIDENT SURVEY MATERIALS	120
APPENDIX B: WAVE II RESIDENT SURVEY MATERIALS	131
APPENDIX C: WAVE II NONRESIDENT SURVEY MATERIALS	143
APPENDIX D: ECONOMIC SURVEY MAP INSERTS	156
APPENDIX E: SPORTFISHING GUIDE BUSINESS SURVEY MATERIALS	159
APPENDIX F: SURVEY RESPONSE RATES AND GUIDE BUSINESS SURVEY SUMMARY RESUL	TS 165
APPENDIX G: STATISTICAL SUMMARY OF SURVEY RESPONSES	169
APPENDIX H: OUTLIER VALUES DELETED FROM THE ANALYSIS	210
APPENDIX I: ESTIMATED DAYS OF SPORTFISHING EFFORT AND ASSOCIATED STANI DEVIATIONS, 2007	
APPENDIX J: NUMBER OF USABLE RESPONSES WITHIN EACH ANALYSIS STRATA	219
APPENDIX K: ALLOCATION PROCEDURES FOR GENERATION OF THE ANGLER SURVEY SAM	4PLE 221
APPENDIX L: DETAILED ESTIMATES OF AVERAGE SPENDING	243
APPENDIX M: DETAILED ESTIMATES OF TOTAL SPENDING	
APPENDIX N: DETAILED ECONOMIC CONTRIBUTIONS OF TRIP AND PACKAGE SPENDING	
APPENDIX O: DETAILED INDUSTRY IMPACTS OF ANGLER SPENDING	

### LIST OF TABLES

<b>Table</b>		<b>Page</b>
E1.	Economic contributions of sportfishing in Alaska, 2007.	ix
E2.	Angler survey timeline and highlights.	xii
E3.	Number and percentage of licensed sport anglers in Alaska, by residence, 2007*	xiii
E4.	Estimated number and percent distribution of angler days, by residency*, by region and subregion,	
	2007	
E5.	Economic contributions from sportfishing in alaska compared to total economic activity in each regio	nxv
E6.	Statewide expenditures by resident and nonresident anglers, 2007.	xvi
E7.	Statewide economic contributions of all spending for sportfishing, by residency, 2007.	xvii
E8.	Expenditures in the southeast region by resident and nonresident anglers, 2007.	
E9.	Economic contributions of angler spending in the southeast region, 2007.	xix
E10.	Expenditures in the southcentral region by resident and nonresident anglers, 2007.	
E11.	Economic contributions of angler spending in the southcentral region, 2007	
E12.	Expenditures in the interior region by resident and nonresident anglers, 2007.	
E13.	Economic contributions of angler spending in the interior region, 2007.	xxiii
Table		Page
1.	Angler survey sample size, target sample and time period, mailing timeline, and overall response rate	
	by survey wave.	6
2.	Percentage of sportfishing licenses sold prior to April 30 that had been entered into the license	
	database by June 21, 2001-2006.	9
3.	Expected number of responses by region and residency strata based upon sampling scheme and	
	response rates to the ADF&G Statewide Harvest Survey.	10
4.	Average spending profile for specific non-package trip expenditures for nonresident, guided trips by	
	time period, 2007	
5.	Categories of fishing and fishing-related equipment.	27
6.	Estimates of the average percent allocation to fishing activities for fishing-related equipment	
	expenditures, 2007.	
7.	Estimated percent of fishing days from angler responses, by season, residency, watertype and area of	
	the state, during 2007.	
8.	IMPLAN sector assignments for angler trip expenditures.	
9.	IMPLAN sector assignments for angler equipment and real estate expenditures.	
10.	Number and percentage of licensed sport anglers in Alaska, by residence, 2007.	
11.	Estimated number and percentage of angler days of sport fishing in Alaska, by region, 2007	39
12.	Estimated number and percent distribution of angler days, by residency, by region and subregion,	4.0
4.0	2007	
13.	Estimated number and percent distribution of angler-days, by water type, region and subregion, 2007.	
14.	Estimated number and percent distribution of angler-days, by guided/nonguided, region and subregion 2007.	
15.	Spending by anglers on sportfishing in Alaska, 2007.	42
16.	Average trip and package spending per angler-day, by region and subregion, 2007.	
17.	Average expenditures by anglers for equipment and real estate, by region and subregion where the	
	spending occurred, 2007	
18.	Total spending on sportfishing by anglers in Alaska, by residency, region, and subregion, 2007	
19.	Statewide angler days by residency, water type, and guided/unguided, 2007	
20.	Total statewide spending for sportfishing by residency and expenditure category,2007.	46

### **LIST OF TABLES (Continued)**

Γable	Pa	age
21.	Statewide average TRIP spending per angler-day, and average annual spending for EQUIPMENT and	
	REAL ESTATE per angler, 2007.	47
22.	Detailed spending for sportfishing in Alaska by residency, 2007.	48
23.	Detailed TRIP and PACKAGE by residency, use of guides, and type of water fished, 2007	
24.	Statewide economic contributions of ALL spending for sportfishing, by residency, 2007	51
25.	Employment (jobs) directly and indirectly supported by angler expenditures statewide, by industry in	
	which the employment occurs, 2007.	53
26.	Statewide economic contributions of expenditures for sportfishing EQUIPMENT and REAL ESTATE	
	in Alaska, by residency, 2007.	54
27.	Statewide economic contributions of combined TRIP-RELATED and PACKAGE spending for	
20	sportfishing, by residency, use of guides, and type of water.	55
28.	Tax revenues generated statewide from the economic contributions of sportfishing, 2007.	
29.	Southeast Region angler days, by residency, water type, and guided/unguided, 2007.	
30.	Southeast Region spending for sportfishing, by expenditure category and residency, 2007.	
31.	Average expenditures in the Southeast region made by Alaska resident and nonresident anglers, 2007	
32.	Detailed spending for sportfishing in Southeast Alaska, by residency, 2007	60
33.	Detailed TRIP and PACKAGE spending in the Southeast Region, by residency, use of guides, and type	<b>(2</b>
2.4	of water fished, 2007.	
34.	Southeast Region economic contributions of ALL spending for sportfishing, by residency, 2007.	63
35.	Employment (jobs) directly and indirectly supported by angler expenditures in the Southeast region, by	<i>(</i> 1
26	industry in which the employment occurs, 2007.	64
36.	Economic contributions of expenditures for sportfishing EQUIPMENT and REAL ESTATE in the	
27	Southeast region, by residency, 2007.	65
37.	Southeast Region economic contributions of combined TRIP-RELATED and PACKAGE spending for	66
20	sportfishing, by residency, use of guides, and type of water.	00
38.	Tax revenues generated in the Southeast Region from the economic contributions of sportfishing, 2007.	67
39.	Southcentral Region angler days, by residency, water type, and guided/unguided, 2007	
39. 40.	Southcentral Region total spending for sportfishing by expenditure category and residency, 2007	
40. 41.	Average expenditures in the Southcentral region made by Alaska resident and nonresident anglers,	09
41.	2007	70
42.	Detailed spending for sportfishing in Southcentral Alaska, by residency, 2007.	
42. 43.	Detailed total TRIP and PACKAGE spending in Southcentral Alaska, by residency, use of guides, and	12
43.	type of water fished, 2007.	73
44.	Southcentral Region economic contributions of ALL spending for sportfishing, by residency, 2007	
45.	Employment (jobs) directly and indirectly supported by angler expenditures in the Southcentral region,	/ 4
<b>T</b> 3.	by industry in which the employment occurs, 2007.	75
46.	Economic contributions of expenditures for sportfishing EQUIPMENT and REAL ESTATE in the	13
10.	Southcentral region, by residency, 2007.	76
47.	Southcentral Region economic contributions of combined TRIP-RELATED and PACKAGE spending	, 0
17.	for sportfishing, by residency, use of guides, and type of water.	77
48.	Tax revenues generated in the Southcentral Region from the economic contributions of sportfishing,	, ,
	2007	78
49.	Interior Region angler days, by residency, water type, and guided/unguided,2007.	
50.	Interior Region spending for sportfishing, by expenditure category and residency, 2007.	
51.	Average expenditures in the Interior region made by Alaska resident and nonresident anglers, 2007	
52.	Detailed spending for sportfishing in Interior Alaska, by residency, 2007.	
53.	Detailed total TRIP and PACKAGE spending in the Interior Region, by residency, use of guides, and	
	type of water fished.	84
54.	Interior Region economic contributions of ALL spending for sportfishing, by residency, 2007	85
55.	Employment (jobs) directly and indirectly supported by angler expenditures in the Interior region, by	
	industry in which the employment occurs, 2007.	86

### **LIST OF TABLES (Continued)**

Γable		Page
56.	Interior Region economic contributions of expenditures for sportfishing EQUIPMENT and REAL	Ü
	ESTATE, by residency, 2007.	87
57.	Interior Region economic contributions of combined TRIP-RELATED and PACKAGE spending for	
	sportfishing, by residency, use of guides, and type of water.	
58.	Tax revenues generated in the Interior Region from the economic contributions of sportfishing, 2007	
59.	Cook Inlet subregion angler days, by water type, guided/unguided, and residency, 2007	
60.	Cook Inlet subregion spending for sportfishing, by residency and expenditure category, 2007	
61.	Average expenditures in the Cook Inlet region made by Alaska resident and nonresident anglers, 2007.	
62.	Detailed spending for sportfishing in Cook Inlet subregion, by residency, 2007	
63.	Detailed total TRIP and PACKAGE spending in the Cook Inlet subregion, by residency, use of guides and type of water fished.	95
64.	Cook Inlet subregion economic contributions of ALL spending for sportfishing, by residency, 2007	96
65.	.Employment (jobs) directly and indirectly supported by angler expenditures in the Cook Inlet	
	subregion, by industry in which the employment occurs, 2007.	97
66.	Cook Inlet Subregion economic contributions of expenditures for sportfishing EQUIPMENT and REAL ESTATE, by residency, 2007.	98
67.	Cook Inlet subregion economic contributions of combined TRIP-RELATED and PACKAGE spending	,
	for sportfishing, by residency, use of guides, and type of water.	99
68.	Tax revenues generated in the Cook Inlet subregion from the economic contributions of sportfishing,	
	2007	100
69.	Total angler days, by residency and guided/unguided for Southeast marine waters, 2007.	101
70.	Total spending for sportfishing, by expenditure category and residency for Southeast marine waters,	
	2007	102
71.	Average TRIP spending per angler-day for Southeast marine waters, 2007.	102
72.	Detailed total TRIP and PACKAGE spending by anglers fishing saltwater in Southeast Alaska, by	
	residency and use of guides, 2007.	103
73.	Economic contributions of combined TRIP-RELATED and PACKAGE expenditures by anglers for	
	sportfishing in Southeast marine waters, by residency, and guided/unguided, 2007.	104
74.	Employment (jobs) directly and indirectly supported by angler trip expenditures associated with saltwater fishing in Southeast Alaska in the Southeast region, by industry in which the employment	
	occurs, 2007.	106
75.	Tax revenues generated by saltwater sportfishing trip spending in Southeast Alaska, 2007	
76.	Summary of economic contributions of sportfishing in Alaska, 2007.	
77.	Economic contributions from sportfishing in Alaska compared to total economic activity in each	110
, , .	region	115
78.	Comparison of spending estimates in the current study to an earlier study of sportfishing in Alaska,	1 1 5
70.	with adjustments for inflation, participation, and trends in angler spending.	116
79.	Comparison of spending for saltwater fishing in the current study to expenditure estimates in a recent	
80.	study	
81.	Statewide industry impacts due to resident and nonresident sportfishing anglers' expenditures in Alask	
01.	(including multiplier effects)	

### LIST OF FIGURES

Figur	e I	Page
E1.	Primary study regions.	
E2.	Conceptual framework for estimation of the economic contributions of angler spending in Alaska	xi
1.	Key terms and concepts used throughout this report.	3
2.	Generalized process used to estimate the total economic contribution of sportfishing in Alaska	4
3.	Primary study regions.	
4.	Economic survey map regions	
	LIST OF APPENDICES	
Appe		Page
A1.	Wave I Resident Survey Questionnaire.	
A2.	First mailing cover letter.	
A3.	Second mailing cover letter.	
A4.	Third mailing cover letter	
B1.	Wave II Resident Survey Questionnaire.	
B2.	First mailing cover letter.	
B3.	Second mailing cover letter.	
B4.	Third mailing cover letter	142
C1.	Wave II Nonresident Survey Questionnaire.	
C2.	First mailing cover letter.	
C3.	Second mailing cover letter.	
C4.	Third mailing cover letter	
C5.	Foreign respondent postcard.	
E1.	Sportfishing Guide Business Survey Questionnaire.	
E2.	First mailing cover letter.	
E3.	Second mailing cover letter.	
E4.	Third mailing cover letter	
F1.	Alaska Sportfishing Economic Survey response rates.	
F2.	Alaska Sportfishing Guide Business Survey response rates by region	
F3.	Guide Business survey IMPLAN sector assignments and business expenditure distributions by guided water type, 2007.	
G1.	Summary statistics for survey response variables: Wave 1 resident respondents.	
G2.	Summary statistics for survey response variables: Wave 2 resident respondents.	
G3.	Summary statistics for survey response variables: Wave 2 nonresident respondents.	
H1.	Steps taken to identify and adjust outliers, ADF&G Economic Study, 2007	
I1.	Estimation procedures for standard errors, guided/non-guided angler days fished.	
I2.	Estimated standard errors for anglers' days fished in 2007 by residency, water type, and	
	guided/unguided fishing within regions, ADFG Statewide Harvest Survey.	214
J1.	Number of survey respondents reporting fishing activity by analysis strata.	
K1.	Sampling Strategy, results version.	
K2.	Sampling Strategy, formula version.	227
K3.	Generation of resident/nonresident split for sampling strategy, <b>RESNRES SPLIT</b>	232
K4.	Generation of early/late split for sampling strategy, <b>EARLYLATE</b>	
K5.	Generation of expected response rates for sampling strategy, <b>RESPONSERATES.</b>	
K6.	Allocation of resident and non-resident fishing to region for sampling strategy, FISHALL.	239
K7.	Allocation of resident and non-resident fishing to region for sampling strategy, FISHALL.	241
L1.	Average spending by sportfishing anglers in Alaska statewide, 2007	
L2.	Average spending by sportfishing anglers in Southeast Alaska, 2007.	
L3.	Average spending by sportfishing anglers in Southcentral Alaska, 2007.	
L4.	Average spending by sportfishing anglers in Interior Region of Alaska, 2007	248

### **LIST OF APPENDICES (Continued)**

L5 Average spending by sportfishing anglers in Cook Inlet Region of Alaska, 2007.  Average spending by sportfishing anglers in Southeast Alaska, 2007.  Spending by sportfishing anglers in Alaska, 2007.  Spending by sportfishing anglers in Southeast Alaska, 2007.  Spending by sportfishing anglers in Southeast Alaska, 2007.  Spending by sportfishing anglers in the Interior Region of Alaska, 2007.  Spending by sportfishing anglers in the Cook Inlet Region of Alaska, 2007.  Spending by sportfishing anglers in the Cook Inlet Region of Alaska, 2007.  Spending by sportfishing anglers in the Cook Inlet Region of Alaska, 2007.  Spending by sportfishing anglers in the Cook Inlet Region of Alaska, 2007.  Spending by sportfishing anglers in TRIP.REI.ATED expenditures for sportfishing, by residency, guided/unguided, and type of water, (excluding package spending), 2007.  Statewide economic contributions of TRIP.REI.ATED expenditures for sportfishing, by residency, guided/unguided, and type of water, 2007.  Southeast Region economic contributions of PACKAGE spenditures for sportfishing, by residency, guided/unguided, and type of water, 2007.  Southeast Region economic contributions of PACKAGE expenditures for sportfishing, by residency, guided/unguided, and type of water, excluding package spending), 2007.  Southcentral Region economic contributions of PACKAGE expenditures for sportfishing, by residency, guided/unguided, and type of water, 2007.  Southcentral Region economic contributions of PACKAGE expenditures for sportfishing, by residency, guided/unguided, and type of water, 2007.  Tool Interior Region economic contributions of TRIP-REI.ATED expenditures for sportfishing, by residency, guided/unguided, and type of water, 2007.  Tool Interior Region economic contributions of TRIP-REI.ATED expenditures for sportfishing, by residency, guided/unguided, and type of water, 2007.  Southcentral Region economic contributions of TRIP-REI.ATED expenditures by anglers for sportfishing, by residency and guided, and type of water, 200	Appe		Page
M1. Statewide spending by sportfishing anglers in Alaska, 2007	L5	Average spending by sportfishing anglers in Cook Inlet Region of Alaska, 2007.	249
M2. Spending by sportfishing anglers in Southeast Alaska, 2007	L6.	Average spending by saltwater sportfishing anglers in Southeast Alaska, 2007.	250
Spending by sportfishing anglers in Southcentral Alaska, 2007	M1.	Statewide spending by sportfishing anglers in Alaska, 2007.	253
M4. Spending by sportfishing anglers in the Interior Region of Alaska, 2007. 256 M5. Spending by sportfishing anglers in the Cook Inlet Region of Alaska, 2007. 257 M6. Spending by saltwater sportfishing anglers in Southeast Alaska, 2007. 258 M6. Spending by saltwater sportfishing anglers in Southeast Alaska, 2007. 258 M6. Spending by saltwater sportfishing anglers in Southeast Alaska, 2007. 258 M6. Statewide economic contributions of TRIP-RELATED expenditures for sportfishing, by residency, guided/unguided, and type of water (excluding package spending), 2007. 263 M6. Southeast Region economic contributions of TRIP-RELATED expenditures for sportfishing, by residency, guided/unguided, and type of water, (excluding package spending), 2007. 263 M6. Southeast Region economic contributions of PACKAGE expenditures for sportfishing, by residency, guided/unguided, and type of water, (excluding package spending), 2007. 264 M7. Southeattral Region economic contributions of PACKAGE expenditures for sportfishing, by residency, guided/unguided, and type of water, 2007. 265 M7. Interior Region economic contributions of PACKAGE expenditures for sportfishing, by residency, guided/unguided, and type of water, 2007. 266 M7. Interior Region economic contributions of TRIP-RELATED expenditures for sportfishing, by residency, guided/unguided, and type of water, 2007. 267 M7. Interior Region economic contributions of TRIP-RELATED expenditures for sportfishing, by residency, guided/unguided, and type of water, 2007. 267 M7. Cook Intel Subregion economic contributions of TRIP-RELATED expenditures for sportfishing, by residency, guided/unguided, and type of water, 2007. 267 M7. Southeast Marine Subregion economic contributions of TRIP-RELATED expenditures for sportfishing, by residency, guided/unguided, and type of water, 2007. 270 M7. Southeast Marine Subregion economic contributions of TRIP-RELATED expenditures by anglers for sportfishing, by residency and guided/unguided, 2007. 271 M7. Southeast Marine Subregion economic contribution	M2.	Spending by sportfishing anglers in Southeast Alaska, 2007.	254
Spending by sportfishing anglers in the Cook Inlet Region of Alaska, 2007. 258 M6. Spending by saltwater sportfishing anglers in Southeast Alaska, 2007. 258 N1. Statewide economic contributions of TRIP-RELATED expenditures for sportfishing, by residency, guided/unguided, and type of water, (excluding package spending), 2007. 261 Statewide economic contributions of PACKAGE spending for sportfishing, by residency, guided/unguided, and type of water, 2007. 262 Southeast Region economic contributions of TRIP-RELATED expenditures for sportfishing, by residency, guided/unguided, and type of water (excluding package spending), 2007. 263 Southeast Region economic contributions of PACKAGE expenditures for sportfishing, by residency, guided/unguided, and type of water (excluding package spending), 2007. 264 Southcentral Region economic contributions of combined TRIP-RELATED expenditures for sportfishing, by residency, guided/unguided, and type of water, 2007. 265 N6. Southcentral Region economic contributions of PACKAGE expenditures for sportfishing, by residency, guided/unguided, and type of water, 2007. 266 N7. Interior Region economic contributions of PACKAGE expenditures for sportfishing, by residency, guided/unguided, and type of water, 2007. 267 N8. Interior Region economic contributions of PACKAGE expenditures for sportfishing, by residency, guided/unguided, and type of water, 2007. 268 N8. Cook Inlet Subregion economic contributions of TRIP-RELATED expenditures for sportfishing, by residency, guided/unguided, and type of water, 2007. 269 N7. Cook Inlet Subregion economic contributions of TRIP-RELATED expenditures for sportfishing, by residency, guided/unguided, and type of water, 2007. 270 N8. Southcentral Region economic contributions of TRIP-RELATED expenditures for sportfishing, by residency, and type of water, 2007. 270 N8. Southcentral Region economic contributions of TRIP-RELATED expenditures by anglers for sportfishing, by residency and guided/unguided, 2007. 270 N8. Southcentral Region economic contributi	M3.		
M6. Spending by saltwater sport/fishing anglers in Southeast Alaska, 2007. 258 N1. Statewide economic contributions of TRIP-RELATED expenditures for sportfishing, by residency, guided/unguided, and type of water. (excluding package spending), 2007. 261 N2. Statewide economic contributions of PACKAGE spending for sportfishing, by residency, guided/unguided, and type of water. (2007. 262 N3. Southeast Region economic contributions of TRIP-RELATED expenditures for sportfishing, by residency, guided/unguided, and type of water. (excluding package spending), 2007. 263 N4. Southeast Region economic contributions of PACKAGE expenditures for sportfishing, by residency, guided/unguided, and type of water. (excluding package spending), 2007. 264 N5. Southcentral Region economic contributions of combined TRIP-RELATED expenditures for sportfishing, by residency, guided/unguided, and type of water, 2007. 265 N6. Southcentral Region economic contributions of PACKAGE expenditures for sportfishing, by residency, guided/unguided, and type of water, 2007. 266 N7. Interior Region economic contributions of TRIP-RELATED expenditures for sportfishing, by residency, guided/unguided, and type of water, 2007. 268 N8. Interior Region economic contributions of TRIP-RELATED expenditures for sportfishing, by residency, guided/unguided, and type of water, 2007. 268 N8. Cook Inlet Subregion economic contributions of TRIP-RELATED expenditures for sportfishing, by residency, guided/unguided, and type of water, 2007. 269 N10. Cook Inlet Subregion economic contributions of PACKAGE expenditures for sportfishing, by residency, guided/unguided, and type of water, 2007. 270 N11. Southeast Marine Subregion economic contributions of PACKAGE expenditures by anglers for sportfishing, by residency, and guided/unguided, 2007. 272 N11. Southeast Marine Subregion economic contributions of PACKAGE expenditures by anglers for sportfishing, by residency, and guided/unguided, 2007. 272 N12. Southeast Marine Subregion economic contributions of PACKAGE expenditur	M4.		
N1. Statewide economic contributions of TRIP-RELATED expenditures for sportfishing, by residency, guided/unguided, and type of water, 2007.  N2. Statewide economic contributions of PACKAGE spending for sportfishing, by residency, guided/unguided, and type of water, 2007.  N3. Southeast Region economic contributions of TRIP-RELATED expenditures for sportfishing, by residency, guided/unguided, and type of water. (excluding package spending), 2007.  N4. Southeast Region economic contributions of PACKAGE expenditures for sportfishing, by residency, guided/unguided, and type of water. (excluding package spending), 2007.  N5. Southcentral Region economic contributions of combined TRIP-RELATED expenditures for sportfishing, by residency, guided/unguided, and type of water, 2007.  N6. Southcentral Region economic contributions of PACKAGE expenditures for sportfishing, by residency, guided/unguided, and type of water, 2007.  N6. Interior Region economic contributions of TRIP-RELATED expenditures for sportfishing, by residency, guided/unguided, and type of water, 2007.  N8. Interior Region economic contributions of TRIP-RELATED expenditures for sportfishing, by residency, guided/unguided, and type of water, 2007.  N6. Cook Inlet Subregion economic contributions of TRIP-RELATED expenditures for sportfishing, by residency, guided/unguided, and type of water, 2007.  N8. Cook Inlet Subregion economic contributions of TRIP-RELATED expenditures for sportfishing, by residency, guided/unguided, and type of water, 2007.  N7. Southeast Marine Subregion economic contributions of PACKAGE expenditures for sportfishing, by residency, guided/unguided, and type of water, 2007.  N8. Southeast Marine Subregion economic contributions of PACKAGE expenditures by anglers for sportfishing, by residency and guided/unguided, 2007.  N8. Southeast Marine Subregion economic contributions of PACKAGE expenditures by anglers for sportfishing, by residency and guided/unguided, 2007.  N8. Southeast Marine Subregion economic contributions of PACKAGE expe	M5.	Spending by sportfishing anglers in the Cook Inlet Region of Alaska, 2007	257
guided/unguided, and type of water, (excluding package spending, 2007.  Statewide economic contributions of PACKAGE spending for sportfishing, by residency, guided/unguided, and type of water, 2007.  Southeast Region economic contributions of TRIP-RELATED expenditures for sportfishing, by residency, guided/unguided, and type of water (excluding package spending), 2007.  Southeast Region economic contributions of PACKAGE expenditures for sportfishing, by residency, guided/unguided, and type of water, (excluding package spending), 2007.  Southcentral Region economic contributions of Combined TRIP-RELATED expenditures for sportfishing, by residency, guided/unguided, and type of water, 2007.  Southcentral Region economic contributions of PACKAGE expenditures for sportfishing, by residency, guided/unguided, and type of water, 2007.  Interior Region economic contributions of TRIP-RELATED expenditures for sportfishing, by residency, guided/unguided, and type of water, 2007.  Region economic contributions of TRIP-RELATED expenditures for sportfishing, by residency, guided/unguided, and type of water, 2007.  Southcast Marine Subregion economic contributions of TRIP-RELATED expenditures for sportfishing, by residency, guided/unguided, and type of water, 2007.  Cook Inlet Subregion economic contributions of PACKAGE expenditures for sportfishing, by residency, guided/unguided, and type of water, 2007.  Southeast Marine Subregion economic contributions of TRIP-RELATED expenditures by anglers for sportfishing, by residency, and guided/unguided, 2007.  270  Southeast Marine Subregion economic contributions of PACKAGE expenditures by anglers for sportfishing, by residency and guided/unguided, 2007.  271  Southeast Marine Subregion economic contributions of TRIP-RELATED expenditures by anglers for sportfishing, by residency and guided/unguided, 2007.  272  Industry output, income and employment impacts of resident angler spending statewide.  275  176  177  178  179  179  179  170  170  170  170  170	M6.		258
Statewide economic contributions of PACKAGE spending for sportfishing, by residency, guided/unguided, and type of water, 2007.  N3. Southeast Region economic contributions of TRIP-RELATED expenditures for sportfishing, by residency, guided/unguided, and type of water. (excluding package spending), 2007.  N4. Southeast Region economic contributions of PACKAGE expenditures for sportfishing, by residency, guided/unguided, and type of water. (excluding package spending), 2007.  N5. Southcentral Region economic contributions of combined TRIP-RELATED expenditures for sportfishing, by residency, guided/unguided, and type of water, 2007.  N6. Southcentral Region economic contributions of PACKAGE expenditures for sportfishing, by residency, guided/unguided, and type of water, 2007.  N7. Interior Region economic contributions of PACKAGE expenditures for sportfishing, by residency, guided/unguided, and type of water, 2007.  N8. Interior Region economic contributions of PACKAGE expenditures for sportfishing, by residency, guided/unguided, and type of water, 2007.  N8. Cook Inlet Subregion economic contributions of PACKAGE expenditures for sportfishing, by residency, guided/unguided, and type of water, 2007.  N8. Cook Inlet Subregion economic contributions of PACKAGE expenditures for sportfishing, by residency, guided/unguided, and type of water, 2007.  N8. Southeast Marine Subregion economic contributions of TRIP-RELATED expenditures by anglers for sportfishing, by residency and guided/unguided, 2007.  N1. Southeast Marine Subregion economic contributions of TRIP-RELATED expenditures by anglers for sportfishing, by residency, and guided/unguided, 2007.  N1. Southeast Marine Subregion economic contributions of PACKAGE expenditures by anglers for sportfishing, by residency, and guided/unguided, 2007.  N1. Southeast Marine Subregion economic contributions of PACKAGE expenditures by anglers for sportfishing, by residency, and guided/unguided, 2007.  N1. Southeast Marine Subregion economic contributions of PACKAGE expenditures	N1.		
guided/unguided, and type of water, 2007. 263 Southeast Region economic contributions of TRIP-RELATED expenditures for sportfishing, by residency, guided/unguided, and type of water. (excluding package spending), 2007. 263 NS. Southeast Region economic contributions of PACKAGE expenditures for sportfishing, by residency, guided/unguided, and type of water. (excluding package spending), 2007. 264 NS. Southcentral Region economic contributions of combined TRIP-RELATED expenditures for sportfishing, by residency, guided/unguided, and type of water, 2007. 265 NS. Southcentral Region economic contributions of PACKAGE expenditures for sportfishing, by residency, guided/unguided, and type of water, 2007. 266 NT. Interior Region economic contributions of PACKAGE expenditures for sportfishing, by residency, guided/unguided, and type of water, 2007. 267 NS. Interior Region economic contributions of TRIP-RELATED expenditures for sportfishing, by residency, guided/unguided, and type of water, 2007. 268 NS. Cook Inlet Subregion economic contributions of TRIP-RELATED expenditures for sportfishing, by residency, guided/unguided, and type of water, 2007. 269 NS. Cook Inlet Subregion economic contributions of TRIP-RELATED expenditures for sportfishing, by residency, guided/unguided, and type of water, 2007. 269 NS. Southeast Marine Subregion economic contributions of PACKAGE expenditures by anglers for sportfishing, by residency, and guided/unguided, 2007. 271 NS. Southeast Marine Subregion economic contributions of PACKAGE expenditures by anglers for sportfishing, by residency, and guided/unguided, 2007. 272 NS. Southeast Marine Subregion economic contributions of PACKAGE expenditures by anglers for sportfishing, by residency, and guided/unguided, 2007. 272 NS. Southeast Marine Subregion economic contributions of PACKAGE expenditures by anglers for sportfishing, by residency, and guided/unguided, 2007. 272 NS. Industry output, income and employment impacts of resident angler spending statewide. 276 NS. Industry output, income			261
N3. Southeast Region economic contributions of TRIP-RELATED expenditures for sportfishing, by residency, guided/unguided, and type of water. (excluding package spending), 2007	N2.	Statewide economic contributions of PACKAGE spending for sportfishing, by residency,	
residency, guided/unguided, and type of water. (excluding package spending), 2007. 263 Southeast Region economic contributions of PACKAGE expenditures for sportfishing, by residency, guided/unguided, and type of water. (excluding package spending), 2007. 264 Southcentral Region economic contributions of combined TRIP-RELATED expenditures for sportfishing, by residency, guided/unguided, and type of water, 2007. 265 Southcentral Region economic contributions of PACKAGE expenditures for sportfishing, by residency, guided/unguided, and type of water, 2007. 267 Interior Region economic contributions of TRIP-RELATED expenditures for sportfishing, by residency, guided/unguided, and type of water, 2007. 267 Interior Region economic contributions of PACKAGE expenditures for sportfishing, by residency, guided/unguided, and type of water, 2007. 268 NP. Cook Inlet Subregion economic contributions of TRIP-RELATED expenditures for sportfishing, by residency, guided/unguided, and type of water, 2007. 268 NP. Cook Inlet Subregion economic contributions of TRIP-RELATED expenditures for sportfishing, by residency, guided/unguided, and type of water, 2007. 270 NP. Southeast Marine Subregion economic contributions of TRIP-RELATED expenditures by anglers for sportfishing, by residency and guided/unguided, 2007. 271 NP. Southeast Marine Subregion economic contributions of PACKAGE expenditures by anglers for sportfishing, by residency and guided/unguided, 2007. 272 Industry output, income and employment impacts of all angler spending statewide. 275 Industry output, income and employment impacts of all angler spending statewide. 276 Industry output, income and employment impacts of fesident angler spending in the Southeast Region. 278 Industry output, income and employment impacts of all angler spending in the Southeast Region. 280 NP. Industry output, income and employment impacts of resident angler spending in the Interior Region. 281 NP. Industry output, income and employment impacts of resident angler spending in the Interior Regi			262
N4. Southeast Region economic contributions of PACKAGE expenditures for sportfishing, by residency, guided/unguided, and type of water. (excluding package spending),2007. 264  N5. Southcentral Region economic contributions of combined TRIP-RELATED expenditures for sportfishing, by residency, guided/unguided, and type of water, 2007. 265  N6. Southcentral Region economic contributions of PACKAGE expenditures for sportfishing, by residency, guided/unguided, and type of water, 2007. 266  N7. Interior Region economic contributions of TRIP-RELATED expenditures for sportfishing, by residency, guided/unguided, and type of water, 2007. 267  N8. Interior Region economic contributions of PACKAGE expenditures for sportfishing, by residency, guided/unguided, and type of water, 2007. 268  N8. Cook Inlet Subregion economic contributions of TRIP-RELATED expenditures for sportfishing, by residency, guided/unguided, and type of water, 2007. 269  N10. Cook Inlet Subregion economic contributions of PACKAGE expenditures for sportfishing, by residency, guided/unguided, and type of water, 2007. 270  N11. Southeast Marine Subregion economic contributions of TRIP-RELATED expenditures by anglers for sportfishing, by residency and guided/unguided, 2007. 271  Southeast Marine Subregion economic contributions of TRIP-RELATED expenditures by anglers for sportfishing, by residency, and guided/unguided, 2007. 271  Southeast Marine Subregion economic contributions of PACKAGE expenditures by anglers for sportfishing, by residency, and guided/unguided, 2007. 272  O1. Industry output, income and employment impacts of resident angler spending statewide. 275  Industry output, income and employment impacts of resident angler spending in the Southeast Region. 278  Industry output, income and employment impacts of nonresident angler spending in the Southeast Region. 280  O1. Industry output, income and employment impacts of nonresident angler spending in the Interior Region. 281  Industry output, income and employment impacts of nonresident angler sp	N3.		
guided/unguided, and type of water. (excluding package spending), 2007. 264  N5. Southcentral Region economic contributions of combined TRIP-RELATED expenditures for sportfishing, by residency, guided/unguided, and type of water, 2007. 265  N6. Southcentral Region economic contributions of PACKAGE expenditures for sportfishing, by residency, guided/unguided, and type of water, 2007. 266  N7. Interior Region economic contributions of TRIP-RELATED expenditures for sportfishing, by residency, guided/unguided, and type of water, 2007. 267  N8. Interior Region economic contributions of PACKAGE expenditures for sportfishing, by residency, guided/unguided, and type of water, 2007. 268  N9. Cook Inlet Subregion economic contributions of TRIP-RELATED expenditures for sportfishing, by residency, guided/unguided, and type of water, 2007. 269  N10. Cook Inlet Subregion economic contributions of PACKAGE expenditures for sportfishing, by residency, guided/unguided, and type of water, 2007. 270  N11. Southeast Marine Subregion economic contributions of TRIP-RELATED expenditures by anglers for sportfishing, by residency and guided/unguided, 2007. 271  N12. Southeast Marine Subregion economic contributions of PACKAGE expenditures by anglers for sportfishing, by residency, and guided/unguided, 2007. 272  O1. Industry output, income and employment impacts of all angler spending statewide. 275  O2. Industry output, income and employment impacts of nonresident angler spending statewide. 276  O3. Industry output, income and employment impacts of resident angler spending in the Southeast Region. 278  O5. Industry output, income and employment impacts of resident angler spending in the Southeast Region. 280  O7. Industry output, income and employment impacts of resident angler spending in the Southeast Region. 280  O8. Industry output, income and employment impacts of resident angler spending in the Southcentral Region. 281  Industry output, income and employment impacts of resident angler spending in the Interior Region. 282  Industr			263
N5. Southcentral Region economic contributions of combined TRIP-RELATED expenditures for sportfishing, by residency, guided/unguided, and type of water, 2007	N4.		
sportfishing, by residency, guided/unguided, and type of water, 2007.  Southcentral Region economic contributions of PACKAGE expenditures for sportfishing, by residency, guided/unguided, and type of water, 2007.  N7. Interior Region economic contributions of TRIP-RELATED expenditures for sportfishing, by residency, guided/unguided, and type of water, 2007.  N8. Interior Region economic contributions of PACKAGE expenditures for sportfishing, by residency, guided/unguided, and type of water, 2007.  N8. Cook Inlet Subregion economic contributions of PACKAGE expenditures for sportfishing, by residency, guided/unguided, and type of water, 2007.  N9. Cook Inlet Subregion economic contributions of PACKAGE expenditures for sportfishing, by residency, guided/unguided, and type of water, 2007.  N10. Cook Inlet Subregion economic contributions of PACKAGE expenditures for sportfishing, by residency, guided/unguided, and type of water, 2007.  N11. Southeast Marine Subregion economic contributions of TRIP-RELATED expenditures by anglers for sportfishing, by residency and guided/unguided, 2007.  N11. Southeast Marine Subregion economic contributions of PACKAGE expenditures by anglers for sportfishing, by residency, and guided/unguided, 2007.  N12. Southeast Marine Subregion economic contributions of PACKAGE expenditures by anglers for sportfishing, by residency, and guided/unguided, 2007.  N11. Industry output, income and employment impacts of nonresident angler spending statewide.  N12. Industry output, income and employment impacts of resident angler spending statewide.  N13. Industry output, income and employment impacts of all angler spending in the Southeast Region.  N14. Industry output, income and employment impacts of all angler spending in the Southcentral Region.  N15. Industry output, income and employment impacts of nonresident angler spending in the Southcentral Region.  N16. Industry output, income and employment impacts of nonresident angler spending in the Interior Region.  N18. Industry output, income and emp			264
N6. Southcentral Region economic contributions of PACKAGE expenditures for sportfishing, by residency, guided/unguided, and type of water, 2007	N5.		
residency, guided/unguided, and type of water, 2007.  Interior Region economic contributions of TRIP-RELATED expenditures for sportfishing, by residency, guided/unguided, and type of water, 2007.  NS. Interior Region economic contributions of PACKAGE expenditures for sportfishing, by residency, guided/unguided, and type of water, 2007.  Cook Inlet Subregion economic contributions of TRIP-RELATED expenditures for sportfishing, by residency, guided/unguided, and type of water, 2007.  Cook Inlet Subregion economic contributions of TRIP-RELATED expenditures for sportfishing, by residency, guided/unguided, and type of water, 2007.  Cook Inlet Subregion economic contributions of PACKAGE expenditures for sportfishing, by residency, guided/unguided, and type of water, 2007.  Southeast Marine Subregion economic contributions of TRIP-RELATED expenditures by anglers for sportfishing, by residency, and guided/unguided, 2007.  271  N12. Southeast Marine Subregion economic contributions of PACKAGE expenditures by anglers for sportfishing, by residency, and guided/unguided, 2007.  272  273  O1. Industry output, income and employment impacts of all angler spending statewide.  275  O2. Industry output, income and employment impacts of resident angler spending statewide.  276  O3. Industry output, income and employment impacts of all angler spending in the Southeast Region.  277  O6. Industry output, income and employment impacts of all angler spending in the Southeast Region.  280  O7. Industry output, income and employment impacts of nonresident angler spending in the Southeast Region.  280  O8. Industry output, income and employment impacts of nonresident angler spending in the Southcentral Region.  281  Industry output, income and employment impacts of nonresident angler spending in the Interior Region.  282  O9. Industry output, income and employment impacts of resident angler spending in the Interior Region.  283  O10. Industry output, income and employment impacts of resident angler spending in the Interior Region.  284			265
N7. Interior Region economic contributions of TRIP-RELATED expenditures for sportfishing, by residency, guided/unguided, and type of water, 2007	N6.	1 1 0, 1	
residency, guided/unguided, and type of water, 2007			266
N8. Interior Region economic contributions of PACKAGE expenditures for sportfishing, by residency, guided/unguided, and type of water, 2007	N7.		
guided/unguided, and type of water, 2007		residency, guided/unguided, and type of water, 2007.	267
N9. Cook Inlet Subregion economic contributions of TRIP-RELATED expenditures for sportfishing, by residency, guided/unguided, and type of water, 2007	N8.		
residency, guided/unguided, and type of water, 2007			268
N10. Cook Inlet Subregion economic contributions of PACKAGE expenditures for sportfishing, by residency, guided/unguided, and type of water, 2007	N9.		
residency, guided/unguided, and type of water, 2007			269
N11. Southeast Marine Subregion economic contributions of TRIP-RELATED expenditures by anglers for sportfishing, by residency and guided/unguided, 2007	N10.		
sportfishing, by residency and guided/unguided, 2007	3.74.4		270
N12. Southeast Marine Subregion economic contributions of PACKAGE expenditures by anglers for sportfishing, by residency, and guided/unguided, 2007	N11.		
sportfishing, by residency, and guided/unguided, 2007	3.71.0		271
O1.Industry output, income and employment impacts of all angler spending statewide.275O2.Industry output, income and employment impacts of resident angler spending statewide.276O3.Industry output, income and employment impacts of nonresident angler spending statewide.277O4.Industry output, income and employment impacts of all angler spending in the Southeast Region.278O5.Industry output, income and employment impacts of resident angler spending in the Southeast Region.280O6.Industry output, income and employment impacts of nonresident angler spending in the Southeast Region.280O7.Industry output, income and employment impacts of all angler spending in the Southcentral Region.281O8.Industry output, income and employment impacts of resident angler spending in the Southcentral Region.282O9.Industry output, income and employment impacts of nonresident angler spending in the Southcentral Region.283O10.Industry output, income and employment impacts of all angler spending in the Interior Region.284O11.Industry output, income and employment impacts of resident angler spending in the Interior Region.285O12.Industry output, income and employment impacts of nonresident angler spending in the Cook Inlet Subregion.286O13.Industry output, income and employment impacts of resident angler spending in the Cook Inlet Subregion.287O14.Industry output, income and employment impacts of resident angler spending in the Cook InletSubregion.288O15.Industry output, income and employment impacts of nonresident	N12.		272
O2. Industry output, income and employment impacts of resident angler spending statewide	0.1		
O3. Industry output, income and employment impacts of nonresident angler spending statewide			
O4. Industry output, income and employment impacts of all angler spending in the Southeast Region			
O5. Industry output, income and employment impacts of resident angler spending in the Southeast Region			
O6. Industry output, income and employment impacts of nonresident angler spending in the Southeast Region			
Region			279
O7. Industry output, income and employment impacts of all angler spending in the Southcentral Region	O6.		200
O8. Industry output, income and employment impacts of resident angler spending in the Southcentral Region	07		
Region			281
O9. Industry output, income and employment impacts of nonresident angler spending in the Southcentral Region	08.		202
Region	00		202
<ul> <li>O10. Industry output, income and employment impacts of all angler spending in the Interior Region</li></ul>	09.		202
O11. Industry output, income and employment impacts of resident angler spending in the Interior Region285 O12. Industry output, income and employment impacts of nonresident angler spending in the Interior Region	010	Industry output income and amployment impacts of all angler spending in the Interior Degion	203 194
O12. Industry output, income and employment impacts of nonresident angler spending in the Interior Region			
Region			203
O13. Industry output, income and employment impacts of all angler spending in the Cook Inlet Subregion287 O14. Industry output, income and employment impacts of resident angler spending in the Cook Inlet Subregion	012.		286
O14. Industry output, income and employment impacts of resident angler spending in the Cook Inlet Subregion	O12		
Subregion			401
O15. Industry output, income and employment impacts of nonresident angler spending in the Cook Inlet	014.		288
	015		200
	015.		280

#### **EXECUTIVE SUMMARY**

In 2007, 475,534 resident and nonresident licensed anglers fished 2.5 million days in Alaska and spent nearly \$1.4 billion on licenses and stamps, trip-related expenditures, pre-purchased packages, and equipment and real estate used for fishing. An input—output model of Alaska and the study regions was used to estimate the total economic contributions that the spending created through the economic multiplier effect. The \$1.4 billion of angler spending in Alaska supported 15,879 jobs in Alaska and provided \$545 million of income (Table E1). As the anglers' dollars moved from business to business in the Alaska economy, government revenues were generated through personal income taxes, local property taxes, sales taxes, business taxes, and excise taxes. In total, \$123 million in tax revenues were generated for state and local governments in Alaska and \$123 million for the Federal government.

Table E1.–Economic contributions of sportfishing in Alaska, 2007.

	Resident Anglers	Nonresident Anglers	All Anglers
Licensed anglers	190,644	284,890	475,534
Days fished*	1,459,380	1,080,438	2,539,818
Angler purchases:			
Licenses and Fees	\$6,627,558	\$16,536,955	\$23,164,513
Trip-related (non-package)	\$219,829,151	\$347,358,999	\$567,188,150
Packages	NA**	\$137,519,700	\$137,519,700
Equipment	\$433,693,104	\$41,385,450	\$475,078,554
Real Estate (construction & repair)	\$73,139,537	\$109,697,619	\$182,837,156
Total dollars spent	\$733,289,349	\$652,498,723	\$1,385,788,072
Total economic contribution, including	multiplier effects:		
Industry output	\$668,729,829	\$938,863,856	\$1,607,593,685
Income provided	\$223,373,937	\$321,882,151	\$545,256,088
Jobs supported	6,442	9,437	15,879
Taxes contributed	\$123,142,404	\$123,172,709	\$246,315,114

<sup>\*</sup> Totals reported here do not exactly match published statewide and regional totals from the 2007 SWHS due to the fact that it is not possible to identify the water type or guided/unguided status of some Statewide Harvest Survey (SWHS) responses. The totals reported in this table reflect the summary of all days fished within a region that could be assigned to a specific residency, water type, and guided/unguided category. Approximately 4,177 days fished (0.16% of 2.5 million days) could not be assigned to a stratum and were not included in these totals.

These findings are the result of a study undertaken in 2007 and 2008 to measure the economic contribution that sportfishing makes to the state of Alaska and its regional economies. The development and management of sustainable recreational fisheries requires decision-makers to integrate both biological and socio-economic information associated with use of fishery

<sup>\*\*</sup> Package expenditures refer specifically to purchases of travel packages made by nonresidents prior to departing on their trip to Alaska.

resources. In late 2006, the Alaska Department of Fish and Game's Division of Sport Fish (DSF) issued a request for proposals to conduct a study of the economic impact of sportfishing in Alaska that would cover the 2007 calendar year. This report presents the detailed results of that assessment, including estimates of angler spending and the associated economic activity that provides jobs and income for the residents of Alaska. The results are presented for the entire state of Alaska, with regional breakdowns for the three primary DSF management regions (Southeast, Southcentral and Interior) and for two subregions (Cook Inlet and Southeast marine<sup>1</sup>). The locations of the primary study regions are shown in Figure E1.

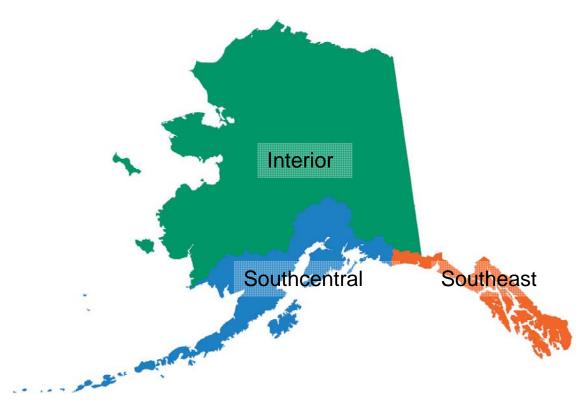


Figure E1.—Primary study regions.

The objectives of the study were accomplished by conducting mail surveys of anglers and sportfishing guide businesses. During 2007 and 2008, licensed resident and nonresident recreational anglers were surveyed to estimate the expenditures that they made related to their sportfishing activities in 2007. The results of that survey were coupled with counts of licensed anglers and estimates of fishing activity (angler-days) provided by the DSF Statewide Harvest Survey (SWHS) to estimate the total amount of fishing-related spending by anglers, the specific goods and services purchased, and the regional locations of the spending. A survey of sportfishing guide businesses was done to accurately account for the money spent by anglers on guided fishing trips. Input-output models of the regional and statewide Alaska economies were then used to estimate the economic multiplier effects of anglers' spending (Figure E2).

 $\mathbf{X}$ 

<sup>&</sup>lt;sup>1</sup> Defined as all saltwater sportfishing areas within ADF&G-DSF's Southeast region.

Output: Trip and package spending: \$992.1 million Average Total Total Direct Income: angler number of trip-related Effects \$354.1 million spending per davs fished spending in day of fishing in 2007 2007 Employment: 11,080 \$277.46 2.5 million \$704.7 million M Output: \$615.5 million L Multiplier Fishing licenses and tags: \$23.2 million Α Income: Effects Ν \$191.1 million Equipment and real estate spending: M Employment: 0 4.799 D Average Total number Ε angler of licensed equipment Output: spending per anglers spending in \$1.6 billion in 2007 2007 year Total Income: **Effects** \$1,383.53 475,534 \$657.9 million \$545.3 million Employment: 15,879

Figure E2.-Conceptual framework for estimation of the economic contributions of angler spending in Alaska.

#### ANGLER SURVEY

A mail survey was used to collect the information about angler spending. An online questionnaire option was also provided to sampled anglers as an alternative method for completing the expenditure questionnaire. In all, 7,500 names were drawn from the pool of residents and nonresidents who bought a fishing license in 2007. The angler expenditure survey was conducted in two waves. In each wave, nonrespondents were sent up to two additional follow-up surveys, for a total of three mailings within each wave. The first wave of surveys (Wave I) included a random sample of 683 Alaska residents who purchased a sportfishing license or were issued a PID/DAV between January 1 and April 30, 2007. The second wave of surveys (Wave II) was sent to a random sample of 2,517 resident anglers and 4,300 nonresident anglers who purchased a sportfishing license or were issued a PID/DAV between January 1 and October 31, 2007 (Table E2). Overall, 2,970 completed, usable surveys were returned.

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<sup>&</sup>lt;sup>2</sup>. These are lifetime hunting, fishing, and trapping licenses valid for the remainder of the recipient's life. DAVs are Alaskan Disabled American Veteran permits. Both PIDs and DAVs are provided free of charge to eligible applicants.

Table E2.—Angler survey timeline and highlights.

Survey Attribute	WAVE I	WAVE II	
Approximate dates that sample was pulled from ADF&G license database	June 2007	November 2007	
Sample size	683	6,817	
Target sample	Residents	Residents & Nonresidents	
Time period covered by the survey	January 1 – June 30	May 1 – October 31	
Date of initial mailing	July 26, 2007	November 19, 2007	
Undeliverable questionnaires	29	224	
Completed questionnaires	379	2,591	
Response rates	58%	39%	
Overall response rate	41.	0%	

#### ALASKA SPORTFISHING GUIDE BUSINESS SURVEY

Because sportfishing guides are a particularly important component of angler spending in Alaska, a separate survey was conducted to obtain information about their business operations. This was necessary to ensure an accurate assessment of the economic contribution that is associated with anglers' spending on guided fishing trips. A brief survey was mailed to 500 sportfishing guide businesses. Three mailings of the guide business surveys were made beginning with the first mailing on December 3, 2007. Of the 500 surveys that were mailed, 29 were returned as undeliverable and 162 were completed for an overall response rate of 34.4%. The information collected in the surveys was used to adjust the IMPLAN economic models that were used in the study to better reflect the actual expenditure patterns of guide businesses in Alaska.

#### ECONOMIC ANALYSIS/MODELING

The expenditures made by anglers for sportfishing activities generated additional economic benefits throughout the Alaska economy beyond the initial angler spending. These additional economic benefits were estimated with IMPLAN regional input-output models that relate changes in specific industries to impacts in other industries within the regional economy. For this study, separate regional models were created to estimate the economic contributions for the statewide Alaska economy and in each of the study regions and subregions. The models produced estimates of the total economic multiplier effects (indirect and induced) from the spending by sport anglers. The direct effect of angler spending refers to the dollars that are captured by Alaska business that provide the goods and services purchased by anglers. Much of the equipment purchased by anglers was manufactured outside of the state and did not have a direct effect on the Alaska economy. In that case, the direct effect consists primarily of retail trade margins and typically is less than the total amount spent by anglers. **Indirect effect** refers to the economic activity (e.g., output, employment, income) that occurred in the industries that supply those businesses that were stimulated by the direct effect. The **induced effect** measures the economic activity that resulted from the household spending of salaries and wages by employees whose jobs were supported by the direct and indirect effects.

#### INDUSTRY SECTOR ASSIGNMENT

Interpretation of the model results depends on the spending under consideration. The term "economic impact" is normally reserved to describe some level of economic activity that would not occur but for the economic stimulus. In the case of recreational activities like sportfishing, it is generally agreed that economic impact comes from spending by visitors to the region. If not for their presence, their spending would never occur in Alaska. If quality sportfishing was no longer available in Alaska for example, nonresident anglers might choose to fish and spend their money elsewhere and thus not generate economic activity in the Alaskan economy. Most resident anglers, on the other hand, choose fishing as an activity on which to spend their recreational dollars locally. If quality sportfishing was no longer available, an unknown portion of residents would likely choose some other local recreational activity on which to spend their money in place of fishing and their spending would still remain in the Alaska economy. This study focused on the total economic contribution from spending by residents and nonresidents. However, the analysis presents the results of angler spending separately for resident and nonresidents to distinguish the total economic impact of sportfishing from its total economic contribution. Additional breakdowns by type of water fished and use of guides are also provided in the full report.

#### **ECONOMIC CONTRIBUTIONS OF SPORTFISHING**

In 2007, nearly 476,000 anglers were licensed for recreational fishing in Alaska, including residents and nonresidents who purchased a fishing license, and residents who were issued a fishing privilege at no cost (PIDs and DAVs). Approximately 60% of all sportfishing licenses were purchased by nonresidents and 40% were issued to residents of Alaska. Nearly three-quarters of all resident licenses were issued to people who lived in the Southcentral region (Table E3).

Table E3.—Number and percentage of licensed sport anglers in Alaska, by residence, 2007\*.

	# Licensed Anglers*	% of Total
Southeast	22,370	4.7%
Southcentral	134,415	28.3%
Interior	33,859	7.1%
Subtotal of Alaska residents	190,644	40.1%
Nonresidents	284,890	59.9%
Statewide Total	475,534	100.0%

Source: Alaska Department of Fish and Game.

<sup>\*</sup>Includes purchased licenses and issued PIDs (Personal Identification cards) and DAVs (Alaska Disabled American Veteran permits).

In 2007, resident anglers accounted for 57.5% of the total angler days of fishing in Alaska, while nonresident anglers accounted for 42.5% of total angler days in the state (Table E4). Two-thirds (66%) of all nonresident fishing effort (in angler-days) occurred in the Southcentral region, followed by Southeast Alaska (30%) and then the Interior Region (4%). The distribution of resident fishing effort by region is similar with approximately 74% of resident angler days occurring in the Southcentral region, followed by the Southeast region (15%) and then the Interior region (11%). In Alaska overall, and in the Southcentral and Interior regions, residents accounted for the majority of angler days. However, in the Southeast region, nonresidents accounted for nearly 60% of the total angler days.

Table E4.–Estimated number and percent distribution of angler days, by residency\*, by region and subregion, 2007.

	RESIDENT		NONRESIDENT		TOTAL	
	Angler- Days	% of Region	Angler- Days	% of Region	Angler- Days	% of Region
Southeast	219,115	40.6%	321,148	59.4%	540,263	100.0%
Southcentral	1,085,962	60.4%	710,843	39.6%	1,796,805	100.0%
Interior	154,303	76.1%	48,447	23.9%	202,750	100.0%
Statewide Total	1,459,380	57.5%	1,080,438	42.5%	2,539,818	100.0%
Subregions						
Southeast Marine	179,873	41.3%	255,465	58.7%	435,338	100.0%
Cook Inlet	761,221	61.2%	481,877	38.8%	1,243,098	100.0%

Source: 2007 Statewide Harvest Survey, Alaska Department of Fish and Game.

<sup>\*</sup> Totals reported here do not exactly match published statewide and regional totals from the 2007 SWHS due to the fact that it is not possible to identify the water type or guided/unguided status of some SWHS survey responses. The totals reported in this table reflect the summary of all days fished within a region that could be assigned to a specific residency, water type, and guided/unguided category. Approximately 4,177 days fished (0.16% of 2.5 million days) could not be assigned to a strata category and thus were not included in these totals.

Sportfishing was an important part of the Alaska economy in 2007, providing jobs and income to many of Alaska's residents. Including the economic multiplier effects, sportfishing supported 15,879 jobs and provided \$545 million of income. By these measures, sportfishing accounted for 2.6% of all income earned in the state and 3.6% of all jobs. The relative contribution of sportfishing to the regional economies varied. It made the greatest relative contribution in the Southeast region where it accounted for approximately 4.8% of the total income and 6.4% of all jobs in the region. In the Interior region, it provided only 0.6% and 1.0% of all income and jobs, respectively (Table E5).

Table E5.–Economic contributions from sportfishing in Alaska compared to total economic activity in each region.

		Total Economic Contribution			
	Angler Spending	Output	Income	Employment	
Southeast					
Sportfishing-related	\$273,504,80	\$295,260,010	\$99,141,694	3,063	
All economic activity**		\$4,927,726,000	\$2,047,290,000	47,799	
% sportfishing-related		6.0%	4.8%	6.4%	
Southcentral					
Sportfishing-related	\$988,558,11	\$1,165,545,513	\$386,463,733	11,535	
All economic activity**		\$38,271,608,000	\$14,289,604,000	300,535	
% sportfishing-related		3.0%	2.7%	3.8%	
Interior					
Sportfishing-related	\$100,560,63	\$86,712,709	\$28,563,882	923	
All economic activity**		\$12,568,651,000	\$4,784,721,000	88,667	
% sportfishing-related		0.7%	0.6%	1.0%	
Statewide Total					
Sportfishing-related	\$1,385,788,07	\$1,607,593,685	\$545,256,088	15,879	
All economic activity**		\$55,766,476,000	\$21,121,616,000	437,001	
% sportfishing-related		2.9%	2.6%	3.6%	

<sup>\*</sup>Including direct and multiplier effects.

<sup>\*\*</sup>Source: 2006 IMPLAN economic models (for comparison purposes only).

#### **Statewide Spending and Economic Contributions**

In total, residents and nonresidents spent nearly \$1.4 billion on sportfishing activities, including licenses, trip and package spending, fishing and fishing-related equipment, and real estate construction and maintenance used primarily for sportfishing. More than one-third (\$567 million) of the total was non-package trip spending. When combined with fishing packages, trip-related spending accounted for one-half (\$705 million) of all sportfishing expenditures. Spending on fishing equipment and fishing-related equipment was \$475 million, and anglers spent a total of \$183 million on maintenance and construction of real estate that was used primarily for sportfishing (Table E6).

Table E6.-Statewide expenditures by resident and nonresident anglers, 2007.

	Resi Ang		Nonres Angl		All Angle	rs
	Total	Per angler-day	Total	Per angler-day	Total	Per angler-day
Licenses and stamps	\$6,627,558	\$4.54	\$16,536,955	\$15.31	\$23,164,513	\$9.12
Trip Expenditures	\$219,829,151	\$150.63	\$347,358,999	\$321.50	\$567,188,150	\$223.32
Package Expenditures	NA*	NA*	\$137,519,700	\$127.28	\$137,519,700	\$54.15
Trips & Packages	\$219,829,151	\$150.63	\$484,878,699	\$448.78	\$704,707,849	\$277.46
	Total	Per angler	Total	Per angler	Total	Per angler
Equipment Expenditures	\$433,693,104	\$2,274.88	\$41,385,450	\$145.27	\$475,078,554	\$999.04
Real Estate Expenditures	\$73,139,537	\$383.64	\$109,697,619	\$385.05	\$182,837,156	\$384.49
Equipment & Real Estate	\$506,832,641	\$2,658.53	\$151,083,069	\$530.32	\$657,915,710	\$1,383.53
Total Expenditures	\$733,289,349		\$652,498,723		\$1,385,788,072	

<sup>\*</sup>Package expenditures refer specifically to travel packages purchased by nonresidents prior to departing on their trip to Alaska.

Generally, residents spent a higher proportion of their fishing dollars on equipment, compared to nonresidents, while nonresidents spent more of their money on trip-related purchases. This is true both in total dollars and on average. Overall, residents accounted for \$733 million of sportfishing spending in Alaska in 2007, compared to \$652 million of spending by nonresidents.

The nearly \$1.4 billion of spending by anglers in Alaska in 2007 directly generated \$354 million of income to 11,080 full and part time employees and proprietors who worked in the Alaska businesses whose products were purchased by anglers. Spending by nonresidents accounted for 6,549 of the jobs and \$208 million of income (Table E7). In addition to the economic activity directly attributable to spending by anglers are the economic multiplier effects (indirect plus induced effects) of that consumer spending. Including both direct and multiplier effects, the nearly \$1.4 billion of spending by anglers produced \$545 million of income, supported 15,879 full and part-time jobs, and provided \$246 million of tax revenues to local, state and federal governments.

Table E7.–Statewide economic contributions of all spending for sportfishing, by residency, 2007.

	Resident Anglers	Nonresident Anglers	All Anglers
Direct effects			
Income	\$146,134,921	\$208,000,960	\$354,135,881
Employment	4,531	6,549	11,080
Multiplier effects			
Income	\$77,239,016	\$113,881,191	\$191,120,207
Employment	1,911	2,888	4,799
Total effects			
Income	\$223,373,937	\$321,882,151	\$545,256,088
Employment	6,442	9,437	15,879
Tax revenues	\$107,433,532	\$138,881,581	\$246,315,114
Local and state	\$56,509,573	\$66,632,831	\$123,142,404
Federal	\$50,923,959	\$72,248,750	\$123,172,709

#### **Angler Spending and Economic Contributions in the Southeast Region**

Residents and nonresidents visiting Alaska spent nearly \$274 million in the Southeast region on sportfishing activities (these numbers do not include spending on license and stamps because those purchases are made from state government and are not attributed to any specific place). Approximately 41% (\$112 million) of the total spending in the region was non-package trip spending. When combined with fishing packages, trip-related spending accounted for more than one-half (55.6%) of all sportfishing expenditures. Spending on fishing equipment and fishing-related equipment was \$68 million, and anglers spent a total of \$54 million on maintenance and construction of real estate that was used primarily for sportfishing (Table E8).

Generally, residents spent a higher proportion of their fishing dollars on equipment, compared to nonresidents, while nonresidents spent more of their money on trip-related purchases. This is true both in total dollars and on average. Nonresident fishing is especially important in the Southeast region where they accounted for more than 85% of all trip-related spending. Overall, nonresidents spent \$175 million for sportfishing in the Southeast region in 2007, compared to \$99 million of spending by residents.

Table E8.–Expenditures in the southeast region by resident and nonresident anglers, 2007.

	Resident Anglers		Nonresident Anglers		All Anglers	
	Total	Per angler-day	Total	Per angler-day	Total	Per angler-day
Trip Expenditures	\$22,467,571	\$102.54	\$89,857,056	\$279.80	\$112,324,626	\$207.91
Package Expenditures	NA*	NA*	\$39,866,502	\$124.14	\$39,866,502	\$73.79
Trips & Packages	\$22,467,571	\$102.54	\$129,723,558	\$403.94	\$152,191,129	\$281.70
	Total	Per angler	Total	Per angler	Total	Per angler
Equipment Expenditures	\$56,606,233	\$296.92	\$10,871,728	\$38.16	\$67,477,961	\$141.90
Real Estate Expenditures	\$19,540,190	\$102.50	\$34,295,525	\$120.38	\$53,835,714	\$113.21
Equipment & Real Estate	\$76,146,422	\$399.42	\$45,167,253	\$158.54	\$121,313,675	\$255.11
Total Expenditures	\$98,613,993		\$174,890,811		\$273,504,804	

<sup>\*</sup>Package expenditures refer specifically to travel packages purchased by nonresidents prior to departing on their trip to Alaska.

The \$274 million of spending by anglers in the Southeast region in 2007 directly generated \$71 million of income to 2,243 full and part time employees and proprietors who worked in the Alaska businesses whose products were purchased by anglers. Spending by nonresidents accounted for 1,662 of the jobs and \$51 million of income (Table E9). In addition to the economic activity directly attributable to spending by anglers are the economic multiplier effects (indirect plus induced effects) of that consumer spending. Including both direct and multiplier effects, the \$274 million of spending by anglers produced \$99 million of income, supported 3,063 full and part-time jobs, and provided \$44 million of tax revenues to local, state and federal governments.

Marine recreational fishing is particularly important in the Southeast region, where 80.6% of all angler-days were in saltwater. Equipment and real estate spending were not allocated by type of water fished, but 86.5% of all trip and package spending in the Southeast region was geared toward saltwater fishing trips. Trip and package spending for saltwater fishing in the Southeast region contributed \$54 million of income, supported 1,897 jobs, and contributed \$26 million of tax revenues. These represent 54.3%, 61.9%, and 60.6% of angler-supported income, jobs and tax revenues in the Southeast region, respectively.

Table E9.–Economic contributions of angler spending in the southeast region, 2007.

	Resident	Nonresident	All
	Anglers	Anglers	Anglers
Direct effects			
Income	\$20,284,669	\$50,987,336	\$71,272,005
Employment	582	1,662	2,243
Multiplier effects			
Income	\$7,031,339	\$20,838,350	\$27,869,689
Employment	209	611	820
Total effects			
Income	\$27,316,008	\$71,825,686	\$99,141,694
Employment	791	2,273	3,063
Tax revenues	\$12,227,368	\$31,368,564	\$43,595,932
Local and state	\$6,376,236	\$15,686,783	\$22,063,019
Federal	\$5,851,132	\$15,681,782	\$21,532,913

#### **Angler Spending and Economic Contributions in the Southcentral Region**

Residents and nonresidents visiting Alaska spent \$989 million in the Southcentral region on sportfishing activities (these numbers do not include spending on license and stamps because those purchases are made from state government and are not attributed to any specific place). Approximately 42% (\$418 million) of the total spending in the region was non-package trip spending. When combined with fishing packages, trip-related spending accounted for slightly more than one-half (51.4%) of all sportfishing expenditures. Spending on fishing equipment and fishing-related equipment was \$357 million, and anglers spent a total of \$123 million on maintenance and construction of real estate that was used primarily for sportfishing (Table E10).

Table E10.–Expenditures in the southcentral region by resident and nonresident anglers, 2007.

	Resident Anglers		Nonresident Anglers		AII Anglers	
	Total	Per angler-day	Total	Per angler-day	Total	Per angler-day
Trip Expenditures	\$181,889,019	\$167.49	\$236,024,061	\$332.03	\$417,913,080	\$232.59
Package Expenditures	NA*	NA*	\$90,130,556	\$126.79	\$90,130,556	\$50.16
Trips & Packages	\$181,889,019	\$167.49	\$326,154,617	\$458.83	\$508,043,635	\$282.75
	Total	Per angler	Total	Per angler	Total	Per angler
Equipment Expenditures	\$328,171,050	\$1,721.38	\$29,013,940	\$101.84	\$357,184,990	\$751.12
Real Estate Expenditures	\$50,895,003	\$266.96	\$72,434,491	\$254.25	\$123,329,493	\$259.35
Equipment & Real Estate	\$379,066,052	\$1,988.35	\$101,448,431	\$356.10	\$480,514,483	\$1,010.47
Total Expenditures	\$560,955,071		\$427,603,048		\$988,558,119	

<sup>\*</sup>Package expenditures refer specifically to travel packages purchased by nonresidents prior to departing on their trip to Alaska.

Generally, residents spent a higher proportion of their fishing dollars on equipment, compared to nonresidents, while nonresidents spent more of their money on trip-related purchases. This is true both in total dollars and on average. Overall, nonresidents spent \$175 million for sportfishing in the Southcentral region in 2007, compared to \$99 million of spending by residents.

The \$989 million of spending in the Southcentral region in 2007 directly generated \$240 million of income to 7,897 full and part time employees and proprietors who worked in the Alaska businesses whose products were purchased by anglers. Spending by nonresidents accounted for 4,329 of the jobs and \$131 million of income (Table E11). In addition to the economic activity directly attributable to spending by anglers are the economic multiplier effects (indirect plus induced effects) of that consumer spending. Including both direct and multiplier effects, the \$989 million of spending by anglers produced \$386 million of income, supported 11,535 full and part-time jobs, and provided \$180 million of tax revenues to local, state and federal governments.

The Cook Inlet subregion is a key fishing and economic component of the Southcentral region. Fishing in the Cook Inlet subregion accounts for 69.2% of all angler-days and 74.1% of all spending that takes place in the Southcentral region. Spending by anglers within the Cook Inlet subregion contributed \$279 million of income and 8,056 jobs to the larger Southcentral region economy, including the economic multiplier effects. That spending also provided \$111 million of the tax revenues generated by angler spending. These represented 72.1%, 69.8%, and 61.9% of all angler-supported income, jobs and tax revenues in the Southcentral region, respectively.

Table E11.–Economic contributions of angler spending in the southcentral region, 2007.

	Resident Nonresident		All
	Anglers	Anglers	Anglers
Direct effects			
Income	\$109,015,231	\$130,743,922	\$239,759,153
Employment	3,569	4,329	7,897
Multiplier effects			
Income	\$65,814,765	\$80,889,815	\$146,704,580
Employment	1,601	2,036	3,637
Total effects			
Income	\$174,829,996	\$211,633,737	\$386,463,733
Employment	5,170	6,365	11,535
Tax revenues	\$86,563,199	\$93,692,068	\$180,255,267
Local and state	\$45,612,530	\$45,187,101	\$90,799,631
Federal	\$40,950,668	\$48,504,967	\$89,455,636

#### **Angler Spending and Economic Contributions in the Interior Region**

Residents and nonresidents visiting Alaska spent \$101 million in the Interior region on sportfishing activities (these numbers do not include spending on licenses and stamps because those purchases are made from state government and are not attributed to any specific place). Approximately 37% (\$37 million) of the total spending in the region was non-package trip spending. When combined with fishing packages, trip-related spending accounted for less than one-half (44.2%) of all sportfishing expenditures. This is compared to slightly more than one-half of total spending statewide that is due to trip and package spending. The substantial difference is largely a result of the lower proportion of nonresident anglers who fish in the Interior region (23.9% of angler-days in the Interior compared to 42.5% statewide). Spending on fishing equipment and fishing-related equipment was \$50 million, and anglers spent less than \$8 million on maintenance and construction of real estate that was used primarily for sportfishing (Table E12).

Table E12.–Expenditures in the interior region by resident and nonresident anglers, 2007.

	Resident Anglers		Nonresident Anglers		All Anglers	
	Total	Per angler-day	Total	Per angler-day	Total	Per angler-day
Trip Expenditures	\$15,472,561	\$100.27	\$ 21,477,883	\$443.33	\$ 36,950,444	\$182.25
Package Expenditures	NA*	NA*	\$ 7,522,641	\$155.28	\$ 7,522,641	\$37.10
Trips & Packages	\$15,472,561	\$100.27	\$ 29,000,524	\$598.60	\$ 44,473,085	\$219.35
	Total	Per angler	Total	Per angler	Total	Per angler
Equipment Expenditures	\$48,915,821	\$256.58	\$1,499,781	\$5.26	\$50,415,603	\$106.02
Real Estate Expenditures	\$2,704,345	\$14.19	\$2,967,604	\$10.42	\$5,671,949	\$11.93
Equipment & Real Estate	\$51,620,166	\$270.77	\$4,467,386	\$15.68	\$56,087,552	\$117.95
Total Expenditures	\$67,092,727		\$33,467,910		\$100,560,637	

<sup>\*</sup> Package expenditures refer specifically to travel packages purchased by nonresidents prior to departing on their trip to Alaska.

Generally, residents spent a higher proportion of their fishing dollars on equipment, compared to nonresidents, while nonresidents spent more of their money on trip-related purchases. This is true both in total dollars and on average. Overall, nonresidents spent \$33 million for sportfishing in the Interior region in 2007, compared to \$67 million of spending by residents.

The \$101 million of spending in the Interior region in 2007 directly generated \$21 million of income to 720 full and part time employees and proprietors who worked in the Alaska businesses whose products were purchased by anglers. Spending by nonresidents accounted for 407 of the jobs and \$11 million of income (Table E13). In addition to the economic activity directly attributable to spending by anglers are the economic multiplier effects (indirect plus induced effects) of that consumer spending. Including both direct and multiplier effects, the \$101 million of spending by anglers produced \$29 million of income, supported 923 full and part-time jobs, and provided \$13 million of tax revenues to local, state and federal governments.

Table E13.-Economic contributions of angler spending in the interior region, 2007.

	Resident	Nonresident	All
	Anglers	Anglers	Anglers
Direct effects			
Income	\$9,940,774	\$10,605,086	\$20,545,860
Employment	313	407	720
Multiplier effects			
Income	\$3,322,932	\$4,695,090	\$8,018,022
Employment	\$86	\$117	203
Total effects			
Income	\$13,263,706	\$15,300,176	\$28,563,882
Employment	399	524	923
Tax revenues	\$6,710,270	\$6,708,875	\$13,419,146
Local and state	\$3,825,310	\$3,396,831	\$7,222,141
Federal	\$2,884,961	\$3,312,044	\$6,197,005



## ECONOMIC IMPACTS AND CONTRIBUTIONS OF SPORTFISHING IN ALASKA, 2007

#### **ABSTRACT**

The economic contribution of sportfishing in Alaska is an important consideration for natural resource managers who must evaluate fishery projects, assist in planning for land and water resource management, and provide input to regulatory or policy decision-makers regarding management or allocation of aquatic resources. This report presents the results of a detailed assessment contracted by the Alaska Department of Fish and Game to measure the economic contribution that sportfishing makes to the state of Alaska and its regional economies. During 2007 and 2008, licensed resident and nonresident recreational anglers were surveyed to estimate the expenditures that they made related to their sportfishing activities in 2007. The results of that survey were coupled with counts of licensed anglers and estimates of fishing activity (angler-days) provided by the ADF&G Statewide Harvest Survey (SWHS) to estimate the total amount of fishing-related spending by anglers, the specific goods and services purchased, and the regional locations of the spending. A survey of sportfishing guide businesses was also conducted to accurately account for the money spent by anglers on guided fishing trips. Input-output models of the regional and statewide Alaska economies were then used to estimate the economic multiplier effects of anglers' spending.

In 2007, 475,534 resident and nonresident licensed anglers fished 2.5 million days in Alaska and spent nearly \$1.4 billion on licenses and stamps, trip-related expenditures, pre-purchased packages, and equipment and real estate used for fishing. The \$1.4 billion of angler spending in Alaska resulted in economic activity that supported 15,879 jobs in Alaska, provided \$545 million of income, and resulted in \$123 million in state/local tax revenues. Nonresident angler spending in Alaska in 2007 (economic impact) was \$653 million, and this supported 9,437 jobs and \$67 million in state/local tax revenues.

The regional distribution of spending by anglers generally followed the distribution of total days fished, with most angler spending occurring in the Southcentral region (72%), followed by the Southeast and the Interior regions with 20% and 7% of total angler spending respectively. Total expenditures on guided sportfishing activities in 2007 totaled \$416 million, which resulted in \$641 million in total economic activity and supported 7,183 jobs. Resident anglers spent an average of \$150 per day of sportfishing activity on trip-related expenses in 2007, while nonresident anglers spent an average of \$448 per day in Alaska on trip-related expenses in 2007.

**Keywords**: Alaska, sportfishing, economic impact, economic contribution, jobs, income, expenditures, IMPLAN models, angler days, economic survey, guide-business survey, Southwick Associates

#### INTRODUCTION

The development and management of sustainable recreational fisheries requires fishery decision-makers to integrate both biological and socio-economic information associated with the use of fishery resources. This report provides estimates of direct expenditures for sportfishing activities in Alaska in 2007 and the associated economic effects of such spending on the Alaska economy. Up to date information is needed by natural resource managers and policy-makers to make informed fishery management decisions. Statewide estimates of the economic impact of sportfishing in Alaska are available every five to seven years as part of the National Survey of Fishing, Hunting, and Wildlife-Associated Recreation (FHWAR)<sup>2</sup>. However, the FHWAR

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U.S. Department of the Interior, Fish and Wildlife Service, and U.S. Department of Commerce, U.S.Census Bureau. 2006 National Survey of Fishing, Hunting, and Wildlife-Associated Recreation.

economic estimates are based upon a relatively small sample of Alaskan households that cannot provide the level of precision desired by the Division of Sport Fish (DSF). Moreover, the FHWAR does not provide estimates of economic impact at the region or subregion level within Alaska as needed by managers and regulatory or policy decision-makers. The last detailed economic impact assessment conducted by the Alaska Department of Fish and Game (ADF&G) DSF was completed in 1999 with estimates for 1993 fishing activity.

In late 2006, DSF issued a request for proposals to conduct a study of the economic impact of sportfishing in Alaska that would cover the 2007 calendar year, and would establish a repeatable protocol to provide periodically-updated estimates of these impacts. The request for proposals was limited to an assessment of the economic impacts and contribution of licensed anglers to Alaska's regional and state economies. Although other types of economic information could have been estimated with additional resources and a different focus for the study, the emphasis on economic impact and economic contribution was directed at providing managers, regulators, or policy makers with basic economic expenditure data and associated economic effects for sportfishing in Alaska. This report presents the detailed results of this assessment, including estimates of the following economic measures (see Figure 1 for definitions) corresponding to sportfishing activities in Alaska on a statewide basis, within the primary DSF management regions (Southeast, Southcentral, and Interior), and for two subregions (Cook Inlet and Southeast marine<sup>3</sup>) in 2007<sup>4</sup>:

- 1. The total resident and nonresident expenditures;
- 2. The total direct, indirect and induced economic effects of resident and nonresident expenditures for sportfishing by sector on the Alaska economy in terms of economic output, income, employment, and government revenues
- 3. The mean trip-related expenditures per angler-day and mean annual equipment expenditures per angler in Alaska for residents and nonresidents for the purpose of approximating changes in economic activity related to changes in fishery participation over time.

Moreover, this assessment sought to establish a consistent and repeatable methodology for collecting and reporting estimates of the economic contribution of sportfishing in Alaska on a periodic basis (every 3-5 years) at the statewide, regional, and subregional level for the purposes of tracking and comparing such estimates over time, as well as making reasonably current estimates available to planning and regulatory decision-makers.

The objectives of the study were accomplished by conducting a survey of resident and nonresident recreational anglers in 2007 and 2008 to estimate the expenditures made by anglers related to their sportfishing activities in 2007. That survey was the basis for estimating the total amount of fishing-related spending by anglers, the specific goods and services purchased, and the regional locations of the spending. Input-output models of the regional and statewide Alaska economies were then used to estimate the multiplier effects of the angler spending. The following sections provide details of the angler survey, the analytical procedures used to estimate statewide and regional angler expenditures from the results of the survey, and the statewide and regional economic models that were developed to estimate the total economic contributions that arose from the angler expenditures.

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<sup>&</sup>lt;sup>3</sup> Defined as all saltwater sportfishing areas within ADF&G-DSF's Southeast region (Figure 3).

<sup>&</sup>lt;sup>4</sup> The specific region and subregion boundaries are defined in the Questionnaire Design section (Figures 2 and 3).

Figure 1.–Key terms and concepts used throughout this report.

<u>Angler:</u> anyone who holds a current Alaska sportfishing license to engage in sportfishing and/or personal use fishing in 2007, dipnetters and shellfish fishermen included. Only the economic effects of sport and personal use fishing (e.g., dipnetting) are captured in this study.

<u>PID:</u> Alaska residents 60 or older are not required to purchase sportfishing licenses, but can apply for an ADF&G Permanent Identification Card (PID). These are free lifetime hunting, fishing, and trapping licenses valid for the remainder of the recipient's life.

**<u>DAV</u>**: a disabled American veteran license allowing participation in sport and personal use fishing, hunting, and trapping in Alaska

**Economic contribution**: the total economic activity resulting from expenditures made by resident and nonresident anglers. In other studies, this is sometime termed economic significance or economic importance.

**Economic impacts**: the effects from nonresident anglers whose expenditures within Alaska represent new dollars or dollars that would otherwise be lost to the state economy.

Economic impacts versus economic contribution: in many circles, there is a difference between these terms. Economic impact typically refers to the new economic activity created within a defined region from dollars originating from outside the region. This includes the dollars brought into Alaska by nonresident anglers, or the dollars brought in by businesses from sales to people and businesses outside of the region. Economic contribution relates to the total economic activity within a region. This would include expenditures by residents and businesses selling to people within the region. In theory, if these dollars were not spent on sportfishing within the region, they would be spent on other activities within the region and therefore would still stimulate economic activity. It is not possible to accurately predict if people would spend dollars within or outside of the region if sportfishing were not available. This study includes both economic impact estimates (nonresidents) as well as economic significance (resident-based) estimates.

<u>Angler Expenditures:</u> the dollars spent for the primary reason of sportfishing. Such expenditures include travel-related expenses for fishing, fishing tackle and other fishing equipment, ancillary equipment that may have multiple uses including supporting the angler's sportfishing activities (e.g., coolers, binoculars), and development and management expenditures for real estate used primarily for the pursuit of sportfishing.

**Economic Multipliers**: the response of a regional economy to some economic stimulus, such as spending by anglers.

<u>Direct effect</u>: the changes in the businesses that are directly affected by angler spending. In the case of consumer purchases, some products are supplied by businesses and industries from outside of the region and the direct effect does not necessarily equal total consumer spending. These direct expenditures initiate other rounds of activity within the economy.

<u>Indirect effect</u>: the changes in inter-industry purchases as suppliers respond to the new demands of those businesses that are directly affected by the angler spending.

<u>Induced effect</u>: the economic activity that results from household spending of labor income associated with the economic activity generated by the direct and indirect effects.

**Economic Activity**: the various metrics that are used to represent the ways in which angler expenditures affect a regional economy. Each of the metrics can be used as measures of the direct, indirect or induced effects.

<u>Output</u>: the total value of an industry's production. Included in output is the value of an industry's inputs plus value added by the industry (payroll, profits, and indirect business taxes).

<u>Income</u>: total payroll, including salaries and wages, as well as benefits such as insurances, retirement benefits paid to employees and business proprietors.

Employment; the total number of both full-time and part-time jobs.

<u>Tax revenues</u>: estimates of all local, state and federal taxes paid by individuals and business (e.g., income taxes, excise taxes, business profits taxes, payroll taxes).

#### STUDY DESIGN AND METHODS

An accurate assessment of the economic impacts and significance of Alaskan sportfishing requires estimates of all sportfishing activity in Alaska and the spending by anglers that is associated with that activity. The total expenditures made by anglers are then analyzed with a model of the Alaska and regional economies to determine the total contribution that angler spending has on the respective economies, including the multiplier effect. The overall process utilized in this study is depicted in Figure 2.

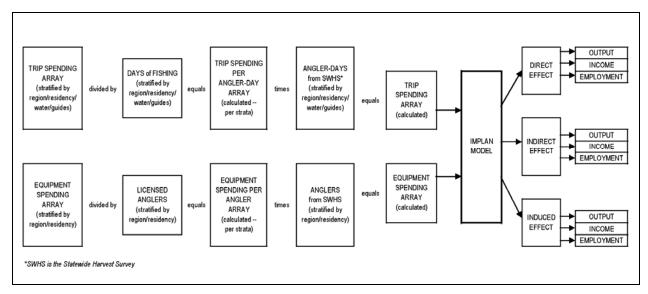


Figure 2.—Generalized process used to estimate the total economic contribution of sportfishing in Alaska.

Several independent sources of angler expenditures are available, such as the FHWAR and previous ADF&G economic studies of sportfishing in Alaska. All of these studies are either several years old, do not provide the requisite data at the regional or subregional level, and/or do not describe the full range of expenditures made by Alaskan anglers. To obtain current and regionally detailed information needed for a full assessment of the economic contributions of Alaska sportfishing, a survey was conducted of people who obtained some form of resident or nonresident Alaska recreational fishing license in 2007.

The angler survey was conducted in two waves. The first wave surveyed resident anglers for fishing activity and expenditures made during the Winter and Spring fisheries in 2007. The second wave measured fishing activity and expenditures made by residents and nonresidents during late Spring and Summer in 2007. Both surveys were structured so that statewide and regional expenditures could be estimated for guided and unguided fishing trips, in fresh and salt water, by resident and nonresidents. The analysis of the survey data provided detailed estimates

for trip-related spending on an angler-day basis, and for annual equipment and real estate<sup>5</sup> expenditures on a per licensed angler basis.

The estimated number of total licensed anglers in 2007 was obtained independently from the DSF license database. Estimates of total days of fishing activity by region and strata were provided by the DSF Statewide Harvest Survey (SWHS), an annual survey administered to a stratified random sample of resident and nonresident households containing at least one licensed Alaska angler. It provides estimates of the days of fishing at detailed regional levels and by residency, water type (fresh and salt water), and use of guides (guided/unguided).

Total annual trip-related expenditure estimates by residency, water type, and use of guides were calculated by multiplying the average trip-related expenditures from the angler surveys by the estimates of days of fishing from the SWHS. Equipment and real estate can be associated with multiple types of sportfishing and are not easily assigned by anglers to a particular type of water or guided/unguided fishing. For that reason, annual equipment and real estate spending was estimated by multiplying the average annual expenditure per angler by the total number of licensed anglers.

The detailed estimates of total annual expenditures were then analyzed with regional and statewide input-output models to estimate total economic significance. The input-output models used in the study are IMPLAN models provided by MIG, Inc. of Stillwater, Minnesota. IMPLAN economic models are widely used for economic impact analyses. These models trace the flow of dollars within an economy to measure how an initial change in one or several economic activities affects an entire economy. The difference between the initial economic change and overall effect across the entire economy is the result of the multiplier effects (known as indirect and induced effects). These multiplier effects are measured in several ways including economic output, employment, and income. In this study, the initial economic change (angler expenditures), coupled with the multiplier effect, represents the total economic contribution of sportfishing.

#### DATA COLLECTION

A mail survey of anglers was conducted to collect information on fishing activity and expenditures sufficient to provide reliable estimates of total expenditures in the study regions by residency, water type, and guided/unguided fishing. The following sections describe the development of the survey instruments, the implementation of the survey, and the compilation and treatment of the collected data.

#### SURVEY DESIGN

A mail survey and a phone survey were initially considered for the angler survey. However, recognizing the need for survey participants to identify the regions where they fished and spent money, a map was needed to define regional boundaries. This prevented the use of a telephone survey. Another reason favoring the use of a mail survey was the lack of phone numbers in the Alaska sportfishing license database and the uncertainty associated with accurately matching addresses to phone numbers using third party data sources. Therefore, a mail survey approach was selected. An online questionnaire option was also provided, with mail survey recipients told

The economic assessment includes expenditures for construction and maintenance of real estate (e.g., cabins, docks, sheds) used primarily for sportfishing, but does not include any purchases or leasing of real estate.

of the online questionnaire option if they preferred to respond via the internet<sup>6</sup>. Each survey recipient was provided a unique access code to prevent others from taking the survey and compromising the project's scientific random sampling framework. Key dates and sample highlights are shown in Table 1.

Table 1.–Angler survey sample size, target sample and time period, mailing timeline, and overall response rate by survey wave.

	WAVE I	WAVE II
Dates that sample was pulled from ADF&G license database	June 2007	November 2007
Sample size	683	6,817
Target sample	Residents	Residents & Nonresidents
Time period covered by the survey	January 1 – June 30	May 1 – October 31
Date of initial mailing	July 26	November 19
Date of 1 <sup>st</sup> follow-up mailing	August 27	December 26
Date of 2 <sup>nd</sup> follow-up mailing	September 27	January 25
Overall response rate	58%	39%

The angler expenditure survey was conducted in two waves. In each wave, nonrespondents were sent up to two additional follow-up surveys, for a total of three mailings of each wave. The first wave of surveys (Wave I) included a random sample of 683 Alaska residents who purchased a sportfishing license or were issued a PID/DAV between January 1 and April 30, 2007. This first wave of surveys were sent out on July 26, 2007, with follow-up mailings to nonrespondents on August 27, 2007 and September 27, 2007. The second wave of surveys (Wave II) were sent to a random sample of 2,517 resident anglers and 4,300 nonresident anglers who purchased a sportfishing license or were issued a PID/DAV between January 1 and October 31, 2007. The first mailing of the second wave of surveys was sent out over a three-day period (November 19-21, 2007) due to the large volume of surveys. Follow-up mailings to second wave nonrespondents took place on December 26, 2007 and January 25, 2008. A shorter recall period was not possible due to a significant lag time between the date of license purchase and when license records become available in the state license database for sampling purposes.

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<sup>&</sup>lt;sup>6</sup> Foreign anglers were provided only with the online option for responding to the survey.

There were two major reasons to not use a single wave of surveys:

- 1. **Seasonal variations in average trip expenditures**: The amount spent by anglers can vary depending on the time of year. For example, winter fisheries in many places are oriented towards ice fishing and a different mix of gear is required. Even during the summer fishing season, expenditures for early season Chinook salmon *Oncorhynchus tshawytscha* fisheries were expected to possibly differ from later season fisheries which range from river to lake fisheries for salmon *Oncorhynchus* spp., rainbow trout *Oncorhynchus mykiss*, Arctic grayling *Thymallus arcticus*, and other species, to saltwater fishing for salmon, Pacific halibut *Hippoglossus stenolepis* and other groundfish (e.g., lingcod *Ophiodon elongates*). To capture these differences, anglers were asked to report their expenditures for a specific trip within defined time periods. This was expected to result in greater recall accuracy of the final expenditure estimates. The time periods covered in the surveys were:
  - a. January 1 through April 30 for residents only, recognizing that few nonresidents participate in fishing in Alaska during this time of year.
  - b. May 1 though June 30 for residents and nonresidents. This period covers early season fisheries for Chinook salmon, steelhead, groundfish and other species.
  - c. July1 through October 31 for residents and nonresidents.
- 2. **Recall Error** an annual survey may force some anglers to report expenses for trips that occurred 12 or more months earlier. Research<sup>7</sup> has shown that anglers can have significant difficulty recalling specific amounts spent a year earlier. This problem is more severe for items with lower prices and/or items that are purchased frequently such as terminal tackle, gasoline and other similar items. Sending two waves of surveys, each with recall periods shorter than annual recall, was expected to help reduce recall error.

Wave I inquired about fishing activity and expenditures for trips taken January 1 through April 30 and May 1 through June 30. Only residents who were issued a sportfishing license or PID/DAV between January 1 and April 30, 2007 were included in the first wave as few nonresidents typically fish in the winter months. To aid in properly assigning expenditures to 2007 resident trips, the Wave I resident survey inquired about the number of trips residents took from January 1 through April 30. The May 1 through June 30 period was included in the Wave I survey to ensure that sufficient responses were received for the early summer fishing time periods, particularly in the event that a survey participant who bought a license between January and April did not actually fish during the January through April time frame. The expenditure profile from this wave was used to estimate expenditure profiles for all winter fisheries, including the November 1 through December 31, 2007 period. The Wave I survey was initiated on July 26, 2007 based on the expected availability of angler mailing lists from the license database and the time required for surveys to be prepared for mailing.

The expenditure of anglers fishing in November and December are assumed to be very similar to angler expenditures made January through April.

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Stynes, Daniel J. and Eric M. White, "Reflections on Measuring Recreation and Travel Spending". <u>Journal of Travel Research</u>, Vol. 45, No. 1, 8-16 (2006)

The Wave II survey inquired about fishing activity and expenditures for May 1 through October 31. Residents and nonresidents were sampled in this wave. Separate resident and nonresident survey instruments (questionnaires) were produced. The trip-related questions asked about the expenditures made for the respondent's most recent trip taken in two time periods: May 1 through June 30 and July 1 through October 31. The Wave II survey was initiated on November 19 based on the expected availability of angler mailing lists from the license database. It was expected that the majority of sportfishing licenses issued during January 1 through October 31 would be entered into the license database by that date. As a result of the timing of the mailing, the Wave II survey likely missed some November and December 2007 fishing trips. To remedy this situation, survey participants were asked about their days of fishing in November through December of 2006. These data from 2006 were used to estimate anglers' distribution of fishing effort in November and December of 2007.

Both survey waves requested anglers report trip-related expenditures by type of angler trip (i.e., guided/unguided), type of water fished (fresh or saltwater) and by region for three key reasons:

- 1. To better capture the differences in angler expenditures for specific types of fishing days.
- 2. To better pair the survey results to the estimates of days of fishing from the SWHS,
- 3. To ensure adequate responses to meet objective criteria for accuracy and precision of expenditure data.

The second wave included nonresident anglers, including foreign anglers. Based on problems associated with sending surveys overseas, non-Canadian foreign anglers were sent a single postcard inviting them to take the survey online. Not knowing the nationalities and languages of people drawn, all surveys and postcards were provided only in English. This approach was taken based on several uncertainties associated with mailing surveys overseas:

- Non-Canadian foreign nonresidents represent a small portion of the nonresident angler population (3-4%)<sup>9</sup>,
- Very high and variable postage costs for 8.5 x 11 mailing envelopes,
- Additional weeks required between survey mailings to send and receive surveys via postal services of other nations with the exception of Canada.

Surveying foreign anglers presented other unique challenges. First, asking respondents to report expenditures in U.S. dollars might dissuade some anglers from completing the questionnaire due to the added burden of making the currency conversion. Second, changes in currency exchange rates during 2007 create uncertainty in the then-current value of the reported expenditures. Finally, fishing trips for non-Canadian foreign anglers are often a part of a larger travel package and it may be difficult for foreign anglers to identify their fishing-related expenditures. For these reasons, it was expected that non-Canadian foreign anglers would not respond at rates comparable to other nonresident anglers who fished in Alaska. Expenditures made by non-Canadian foreign anglers can be expected to be somewhat higher than expenditures made by U.S. anglers based on the additional attention needed by many to overcome language and cultural differences. Therefore, there is potential for underestimating total nonresident spending if foreign anglers are under-represented in the nonresident sample. However, foreign anglers

<sup>&</sup>lt;sup>9</sup> DSF License Database

represent approximately three percent of all nonresident anglers and any potential underestimation of their expenditures was not expected to have a significant impact on the final results.

## SAMPLING FRAME AND SAMPLE SIZES

The 2007 ADF&G sportfishing license database was used as the sampling frame for the expenditure surveys. PIDs and DAVs were included in the license database. <sup>10</sup> To reduce the probability of sampling individuals who may not have fished in 2007, only persons that applied for a PID or DAV license in 2007 were included in the sample frame. There were about 3,800 PIDs and DAVs issued in 2007 and they were proportionally represented in the final sample lists drawn for each survey wave.

From year to year, the percentage of annual license sales entered into the license database by any specific date varies based on the delivery of license sales records by vendors and the workload within the Licensing Section of ADF&G. An analysis was conducted by DSF to examine when 2001-2006 licenses were entered into the license database. Specifically, Table 2 shows the percentage of licenses sold prior to April 30 that were entered into the database by June 21. The results were used as a general guideline as to when licenses were expected to be entered in 2007. Based on trends regarding license data entry dates, a sample selected on June 21 of licenses issued by April 30 was regarded as sufficiently complete for the first wave of resident surveys.

Table 2.—Percentage of sportfishing licenses sold prior to April 30 that had been entered into the license database by June 21, 2001-2006.

Year	Residents	Nonresidents
2001	49.1%	29.7%
2002	66.2%	53.1%
2003	50.2%	44.5%
2004	93.1%	86.4%
2005	75.2%	69.4%
2006	97.4%	89.7%

To help ensure the final sample was representative of the population of anglers active in Alaska in terms of residency (e.g., resident/nonresident), spatial distribution of effort (i.e., fishing regions), water type (salt versus freshwater), and time of fishing (i.e., fishing seasons); and, to help ensure the size of the initial sampling draw (7,500) would result in cell sizes large enough for analyses of specific angler strata, ADF&G licensing and response rate data were used to design the sampling strategy. Details of the data used and of the calculations made are presented in Appendix K.

<sup>&</sup>lt;sup>10</sup> Limited survey data indicates residents holding PIDs may be less likely to go sportfishing in a given year than residents who purchase a license (59% vs. 90%), but it is assumed that those who apply for a PID in a given year are similar in terms of likelihood of going sportfishing as residents who purchase a license.

Using response rates from the past five years of the SWHS and results showing where fishing activity occurred, (including response rates for early and late survey periods), the following sample sizes were allocated by wave:

Wave I = 683 surveys

Wave II = 6.817 surveys

Total N = 7,500 surveys

Based on experience from the SWHS during 2001-2006 and the recommended sample sizes for Waves I and II, surveys sent to randomly-selected licensed anglers in Alaska were expected to generate the distribution of responses presented in Table 3. Even though fewer numbers of responses were expected for the lesser-fished regions and subregions, and recognizing that the Southcentral region may be a major source of fishing by anglers from Southeast and Interior, stratifying the sample to under-sample Southcentral and over sample Southeast and Interior was not recommended as information needed to further stratify the sample was not available.

Table 3.—Expected number of responses by region and residency strata based upon sampling scheme and response rates to the ADF&G Statewide Harvest Survey.

Study Region	Residents	Nonresidents
Southeast	164	595
Southeast Marine	124	497
Southcentral	928	1,324
Cook Inlet	480	669
Interior	129	80

Without the information to accurately estimate the response rate for a survey of the size and complexity of the planned economic survey, the response rates from previous SWHS efforts were considered the best measure available. The response rates that were obtained from the resident and nonresident angler surveys are presented in Appendix F.

Prior to drawing the resident-only sample for Wave I survey from the June 21 incomplete <sup>11</sup> sportfishing license file, we conducted a general evaluation of the coverage quality of this file compared to previous years' complete sportfishing license files. This general evaluation involved a comparison of the distribution of license sales by geographic groupings of license vendors between the incomplete file with complete files in previous years. This comparison for the Wave I sampling involved only license sales to Alaska residents prior to May 1. The grouped vendor location categories used for the comparison were the same groupings used by the annual SWHS<sup>12</sup>. We tested for differences with a chi-square contingency test for the independence of

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The sportfishing license file is termed "incomplete" because not all licenses that are purchased Jan 1-Jun 21 actually appear in the license database due to a lag time that exists between the sale of license, delivery of license books to ADF&G from vendor, and data entry by the Division of Licensing.

For the purposes of SWHS sampling, fishing and hunting license vendors in Alaska are placed into one of 15 geographic groups that correspond to collections of SWHS reporting areas (A-Z).

license sales among years by grouped license vendor location ( $\alpha = 0.10$ ). The incomplete license file at the time of sampling was determined to be representative of expected license sales by location of license vendors. The coverage quality was acceptable and the sample draw from the incomplete file was a simple random sample, with equal probability for all licenses to be drawn.

Similar evaluations and determinations were conducted for the Alaska resident and the nonresident Wave II sample draws in November 2007. The samples were drawn using a constrained 13 stratified random approach based on residency.

In addition to the pre-survey coverage quality determination, we tested the sample for coverage errors. This was done recognizing some level of bias could have been introduced by excluding records from vendors who were late in submitting their licensing sales books. This test was conducted starting on November 1 for the Wave I sample when most of the early period licenses (January 1–April 30) had been entered into the license database. The tests on the version of the license file that was to be used for Wave II sampling were completed by the end of January 2008. They consisted of comparing the license samples drawn June 21 to the complete list (completed by November) to determine the percentage that were actually available on June 21. In addition, the grouped vendor locations (noted in the pre-survey coverage evaluation above) that were used to draw the sample in June were compared to the vendor distribution in the complete 2007 file provided by ADF&G in February 2008 to identify any potential gaps or biases caused by late-reporting vendors. The same tasks were conducted again for the Wave II sample. In both cases, the observed differences were minor and no changes were necessary. If significant differences existed, weights would have been developed and applied to the data post-survey by region.

Three complete mailings (survey, map and cover letter) within each survey wave were conducted to maximize survey response rates. Past experience with the SWHS has shown that total survey response rate is increased by this survey protocol. Responses from the third mailing were used to help identify the presence of non-response bias (described later in this section). Dates associated with each mailing were:

#### Wave I:

Mailing 1 = July 26, 2007

Mailing 2 = August 27, 2007

Mailing 3 =September 27, 2007

## Wave II:

Mailing 1 = November 19-21, 2007

Mailing 2 = December 26-27, 2007

Mailing 3 = January 25, 2008

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<sup>&</sup>lt;sup>13</sup>As noted earlier any residents selected for sampling during the first wave were excluded from the sampling frame used for the second wave sample selection, accordingly the sampling approach was not completely random.

# **QUESTIONNAIRE DESIGN**

The Wave I resident questionnaire and Wave II resident and nonresident questionnaires and corresponding cover letters are presented in Appendices A, B and C, respectively. The maps that accompanied each questionnaire are presented in Appendix D. The questionnaire was designed to provide data on a per angler-day basis, versus a household basis. The SWHS is household-based, but the results are reported 'per angler-day.' so it was necessary to pair the survey expenditure data with SWHS effort data as accurately as possible to develop estimates of Alaska's total sportfishing-related expenditures.

Due to the sampling frame utilized, the sample was limited to licensed anglers only. However, economic impacts are also generated from purchases associated with unlicensed youth anglers under 16 years of age. To account for some youth-related purchases, recognizing youth under 16 years of age do not need a license, survey respondents were asked to report their total expenditures, which could include purchases made for unlicensed youth anglers in their fishing party.

Many trip-related expenditures are made at the group level versus individual level. Examples include a family's restaurant or hotel bills, and fuel for transportation. Economic research by the U.S. Forest Service indicates that it is difficult for many people to separate their share of group expenditures and will report the group's total expenditures rather than their own share <sup>14</sup>. Based on this experience, the survey questionnaires inquired about total expenditures made by the survey respondent (i.e. what they actually spent), without regard to the size of the group or whether the expenditure covered one person or multiple people. Coming from a random sample of licensed anglers, the respondents include a representative sample of people who made expenditures that covered others in a group as well as anglers with few expenditures to report because their costs were paid by someone else.

For subsistence fishers, only expenditures they made for sportfishing trips within the periods noted in each survey were included in the estimation of sportfishing expenditures. Their trips regarded as subsistence fishing were excluded. Persons who purchased a sportfishing license, but may have engaged in both subsistence and sportfishing activities were only asked to report expenditures for sportfishing-related trips and equipment expenditures.

The study questionnaires were designed to collect sportfishing trip and equipment expenditures that could be used to estimate the economic impacts and contributions of sportfishing within each of the three DSF management regions: Southeast, Southcentral, and Interior (Figure 3). In addition to these three regions of the state, the survey was designed to provide data for two additional areas that are subsets of the primary study regions: Cook Inlet – a subregion of Southcentral; and, Southeast marine – based solely on saltwater fishing in the Southeast.

<sup>&</sup>lt;sup>14</sup> Stynes, Daniel and White, Eric. Spending Profiles of National Forest Visitors, NVUM Four Year Report, May 2005

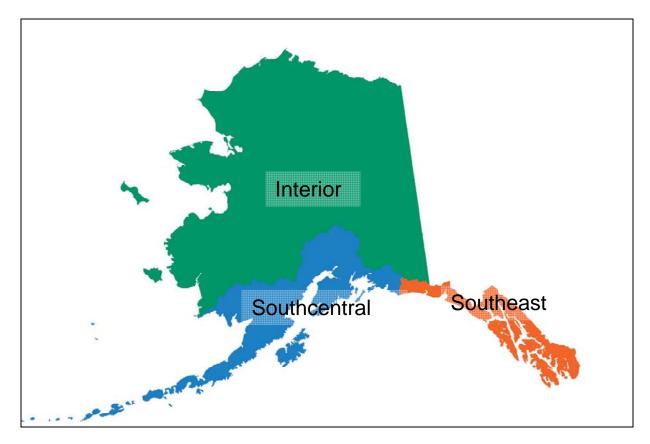


Figure 3.–Primary study regions.

For purposes of collecting data, the state was divided into six areas and survey participants were asked to report trip and equipment expenditures incurred in one or more of the six geographic areas. The six data collection areas were defined as (Figure 4):

- A= Southeast
- B= Prince William Sound/North Gulf Coast
- C= Cook Inlet
- D= Bristol Bay/Aleutians
- E= Tanana/Copper River Valleys
- F= Arctic-Yukon-Kuskokwim

Based on expected sample sizes and response rates, economic impact and contribution estimates were tabulated and reported only for the three DSF management regions plus the Cook Inlet and Southeast marine subregions. The six data collection areas were included in the survey and shown on the map that accompanied the questionnaires primarily to help survey respondents more easily identify where they fished and spent money.

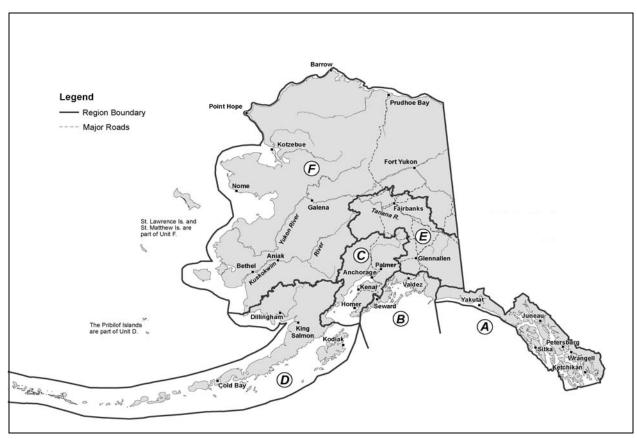


Figure 4.–Economic survey map regions.

The Wave I and II study questionnaires were constructed to collect a variety of expenditure and fishing-related information needed to meet the project objectives. The following categories of questions were included (see Appendices A, B and C for example questionnaires):

- 1. Demographics age and gender data already captured in the ADF&G license database were also collected in the survey. The results were used to help ensure that respondents adequately represented the statewide licensed population. If the survey responses did not adequately match the demographics of all license holders, then the demographic data would have been used to weight the survey data. Statistical tests indicated no bias in the sample on the demographic measures.
- 2. Total number of trips & days for each survey time period (Jan 1-April 30, May 1-June 30, and July 1-October 31) per stratum (resident/nonresident, freshwater/saltwater, guided/charter or unguided, and per region/subregion). These items were critical in creating seasonal weights for the calculation of annual expenditures for each stratum.
- 3. Whether a fishing license was purchased primarily for sportfishing activities ("Did you purchase your license primarily so that you could participate in 'personal use' fisheries?"). This was required to separate types of fishing during the data analysis stage.
- 4. Whether fishing was the primary purpose of trip reported on ("Would you have taken this trip even if you were unable to go fishing?") This question was used to determine whether certain non-fishing expenditures (e.g., restaurants, souvenirs) should be attributed to the fishing trip.
- 5. *Trip-related information* was also sought for the respondent's most recent trip within the specified time periods, including:
  - a. The trip's subregion (where fishing took place, and where expenditures took place)
  - b. Guided/chartered or unguided
  - c. Freshwater or saltwater
  - d. Targeted species
  - e. Number of days in the trip & number of days actually fished
  - f. Region where the last trip occurred
  - g. Was the trip for personal use or subsistence fishing?
- 6. Detailed trip expenditures (fuel, travel costs, ice, bait, guide/charter fees, etc.) Respondents were asked to indicate the amount spent on and regions(s) of purchase for a range of consumable, trip-related goods and services.
- 7. Travel package spending: To include fishing expenditures in Alaska that some nonresident anglers make prior to visiting the state, nonresidents were asked to report any pre-arranged fishing trips they may have purchased and to indicate the amenities that were included in the package price. Because this question focused specifically on expenditures made prior to visiting Alaska, it was not included in the resident survey.
- 8. Annual equipment expenditures: Equipment can be used during more than one trip. Therefore, equipment expenditures were not included in the 'most recent trip' questions.

Equipment expenditures over the past 12 months were requested in both survey waves. For multi-purpose equipment, respondents were asked to indicate the percentage of time the equipment item was used for sportfishing, and only that percentage of the item's cost was used in the equipment expenditure analysis. Nonresidents were asked to report their expenditures for equipment only purchased in Alaska; all respondents were asked to indicate the region in which the equipment was purchased. The list of items included in the survey was reviewed with industry representatives and ADF&G staff in June of 2007 to help ensure items commonly used in Alaska by anglers were properly listed.

- 9. *Real estate:* Respondents were asked to report expenses related to real estate in Alaska that was used primarily for sportfishing purposes. Expense categories included purchase, lease, maintenance and construction of real estate.<sup>15</sup>
- 10. Satisfaction: a question about the respondent's satisfaction with Alaska's sportfishing was added to assist ADF&G staff in assessing satisfaction as a measure of performance. This question was not included in the analysis of economic contribution.

In June 2007, the draft resident angler questionnaires were pre-tested in-person with anglers and industry representatives. A pre-testing session with anglers was scheduled at an Anchorage tackle retailer, Sportsmen's Warehouse. During the night of the pre-test, several anglers did not show and others were recruited directly from the store's sales floor. A private meeting room was used. Each angler was given a \$50 gift certificate from the hosting retailer for participating. Two sessions were held that night, one at 5:30 and the other at 7:00 pm. The session was led by Southwick Associates with assistance by ADF&G staff.

The Wave I and Wave II surveys were both pre-tested. The anglers first took the survey without any input or background provided by the session hosts besides being told they were helping to test and refine an upcoming survey. Once anglers completed the test survey, they were gathered to discuss their impressions in a focus group style setting. The review included:

- 1. Did they have difficulty understanding any of the specific questions?
- 2. How did they interpret any questions suspected as being problematic?
- 3. Did any of the response mechanisms to any specific questions not allow the respondent to provide a full response? In other words, did they feel there was something more we should know about their response that the survey did not record?

Based on feedback received during the pre-test phase, the survey questionnaires were revised as necessary.

The nonresident questionnaires were tested using a different format. Nonresident anglers were recruited in-person by Southwick Associates. One participating nonresident was recruited from the retail floor during the resident pre-test sessions and sent a survey to complete. For the others, the survey was administered in person, then the respondent was interviewed to gain the same type of feedback collected in the resident pre-test sessions. The nonresident recruited from the sales floor was interviewed by phone. Four nonresident pre-test surveys were conducted; three of the participants were Florida residents and one was a resident of Michigan. When the nonresident surveys were revised, feedback from the resident pre-tests was also considered.

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Data analysis revealed that the lack of specificity in the purchase and lease questions yielded unreliable data. Subsequently, expenditures for purchase or lease of real estate were omitted from the estimation of angler expenditures.)

After the final written questionnaires were developed and pre-tested, an online version was developed presenting the same questions, wording and order. In the mailed cover letter and at the beginning of the mail questionnaire, survey recipients were offered the opportunity to take the survey online. The online survey was offered as a convenience that could potentially help boost response rates. The draft online survey was pre-tested internally by Southwick Associates and ADF&G staff and made available for review prior to the mail survey's first mailing. The online survey was activated upon the distribution of the mail survey. Each survey was assigned a code to track responses for the second and third round mailings, and survey respondents were required to use this code to access the survey and prevent from taking it again. This code also prevented survey recipients from encouraging friends to take the survey and potentially biasing the results.

After the survey instruments were complete, they were reviewed and approved by the ADF&G Commissioner, as is done for all public surveys issued by the ADF&G.

## **Questionnaire Mailing and Response Processing Protocols**

Recognizing some residents may be more likely to respond to a survey sent from Alaska and returned to an Alaska address, a mail house in Alaska was used to mail out and receive the mailed survey questionnaires. The mail house was hired by Southwick Associates using a competitive bid process. Criteria for selection included comments from current and past clients, availability to handle the workload during the specified timeframes, the ability to handle complex surveys requiring unique codes and tracking mechanisms per survey, business reply mail capabilities, and printing capabilities. In May, mail houses were identified and contacted by Southwick Associates and provided with desired project specifications. The mail houses that appeared capable were visited in June 2007 by Southwick Associates during a scheduled project trip to Anchorage and the final selection of the mail house contractor was made during this visit. Initial mailing instructions and arrangements were discussed with the selected mail house during this same visit, including contract issues, arrangements for delivery of master copies and more.

For each survey wave, the following protocols were used to administer the questionnaires:

- 1. A complete survey packet consisting of cover letter and questionnaire with map insert was mailed to survey participants by the mail house. Advance notice postcards or letters were not used.
- 2. First class outbound mail and business reply mail was used for all three mailings.
- 3. Three complete mailings (cover letter, questionnaire and map insert) were conducted with a 30-day lag between each mailing.
- 4. First, second and third mailings were distinguished by using different colors of paper stock.
- 5. Unique cover letters were used for each mailing. The cover letters are presented in Appendices A, B and C.
- 6. A survey response incentive was used. All survey participants were notified that their name would be entered into a random drawing for a \$1,000 gift certificate upon receipt of a completed questionnaire.
- 7. Surveys completed online were tracked to prevent mailing a second or third survey to online respondents.

8. The mail house received all returned surveys and forwarded them to Southwick Associates, Inc. for processing. Each returned survey had the respondent's unique code on the envelope to track who responded. This code was only used to determine who was not to receive a second or third mailing.

Questionnaires were returned to the mail house. Returned questionnaires were sorted into two categories: "deliverables" and "undeliverables". "Deliverables" were defined as questionnaires successfully delivered by the U.S. Postal Service (total mailed surveys minus undeliverable surveys). "Undeliverables" were defined as questionnaires the U.S. Postal Service was unable to deliver to the addressee and were returned to the mail house. First class postage was used to ensure undeliverable surveys were returned by the U.S. Postal Service. "Undeliverables" were ultimately sent to Southwick Associates to aid in determining final response rates.

When a questionnaire was received, the unique code on the return mailing label was checked and entered into a database by the mail house. This was used to determine who not to send a second or third mailing. When possible, the mail label database was updated with correct addresses for those questionnaires forwarded by the Post Office personnel as undeliverable. Periodic reports of response numbers were provided to Southwick Associates by the mail house. To ensure confidentiality, no surveys were opened by the mail house. The logged-in and still unopened surveys, as well as the undeliverable surveys, were then packed and shipped on a regular basis to Southwick Associates for data entry. Surveys were sent in batches via overnight delivery services to prevent significant impact if a package was lost in transit. Once received, the surveys were re-checked to ensure proper mail lists were being used by the mail house for the second and third mailings of surveys.

The sampling frame was developed based on historical response rates obtained by the ADF&G of the annual Statewide Harvest Survey (SWHS). Utilizing those surveys as a guide, the expected response rate for this survey was estimated to be 42.9%. The overall response rate achieved by the Alaska Sportfishing Economic Survey was 41.0%. Details of the response rate, broken down by wave and target group, are provided in Appendix F.

An issue developed during the Wave II mailings that may have affected response rates to an unknown degree. In the development of the mailing lists, unique, random alphanumeric ID codes were generated by the online survey contractor and assigned to each recipient of the survey. The codes were required for access to the online version of the questionnaire to ensure that only members of the survey sample had access to the online survey and no person could complete more than one online questionnaire. The same ID numbers were included on each return envelope as the mechanism for tracking mail respondents. Unknown to the survey administrators, every resident was assigned an ID code with a duplicate counterpart in the nonresident sample. As a result, some surveys from the mailing of the Wave II surveys were returned to the mail house with an ID code on the envelope that provided no way for the mail house to determine whether the respondent was from the resident or nonresident mailing list. In many cases, the postmark provided an indication of residency. When no postmark appeared on the envelope, the mail house was instructed to send the unopened surveys to Southwick Associates to be opened and examined to determine the residency of the respondent. This information was then sent to the mail house to adjust the mailing list for the second mailing. However, the duplicate ID issue was not detected until well after the first mailing of Wave II had occurred and it was later determined that not all surveys were correctly logged.

Prior to the second mailing, a prefix was added to the ID code on the return envelopes to distinguish resident and nonresident returns from the second and third mailings. Nevertheless, some respondents received a second or third survey mailing despite having responded to the first mailing. It is also likely that an unknown number of people who did not respond to the first survey were not given a second or third opportunity to respond.

## **Data Entry and Quality Controls**

Data entry was completed by Southwick Associates personnel. Microsoft Access was used to build the data entry screens and manage the data entry tasks. Data entry instructions were developed and provided to each data entry clerk explaining the parameters to use for each variable including:

- 1. Format alpha, numeric or alphanumeric, including when to use symbols such as "\$" and other seldom-used characters.
- 2. Zeros and blank proper values to enter if no response (typically -999) or if a zero is provided as a response.
- 3. Out-of-bounds and text responses how to handle response to questions that do not fit the specific format, such as text replies to numeric questions, responses that are clearly out-of-bounds, protest responses, etc.
- 4. Special cases instructions were provided about how to handle surveys that required close examination by a project statistician or economist.
- 5. Comments when the respondent provides comments outside of established response areas, the capability for these to be entered was provided.

Multiple steps were taken to ensure data quality:

Account for multiple surveys received from the same individual: Due to the initial confusion that resulted from the duplicate IDs, an unknown number of anglers were included in the second and third rounds of the Wave II mailings despite having responded to the first mailings. This is not unusual in most mail surveys due to time lags in adjusting mailing lists while mail is in transit. In this case, 127 people returned a second completed survey. These were identified by the ID code and survey type (resident or nonresident). In each case, the first survey received was retained and subsequent surveys were removed from the data base entirely.

Out-of-Bounds Checks: Microsoft® Access routines and Excel procedures were used to review each variable in the data files to ensure each response fit within an acceptable range. For example, it would not be possible for someone to have fished 62 days within the May to June period. Data entry validation was employed in the data entry screens to block responses that fell outside of accepted parameters. Results that were within accepted parameters but of questionable validity were marked for review by the project statistician and economists. Each was adjusted accordingly, or deleted if a proper response could not be reasonably deduced. Acceptable parameters were reviewed in-person by ADF&G and Southwick Associates prior to finalization. Upon completion of the data entry process, all variables were sorted to examine the upper range of values. All upper level values were compared against the original survey questionnaires to ensure they were not the result of manual data entry error. The resulting maximum values used in the analyses are reported in Appendix I with the detailed mean expenditure estimates.

<u>Outliers</u>: Some responses, while plausible, had a significant impact on the resulting estimates. For example, boats are produced that cost hundreds of thousands of dollars and more. It is reasonable to assume that, while rare, some of these boats were purchased primarily for sportfishing. However, including a survey response that reports a purchase in the hundreds of thousands of dollars has a significant effect on the calculated average expenditures reported in this report and can greatly skew the results upward. Adjustments were needed for these outlier observations.

Several steps were taken to identify and adjust outliers. The first was a sort of all variables to identify high values. ADF&G and Southwick Associates conducted a joint examination of the high values to assess plausibility based on personal knowledge of fishing in Alaska and considering additional data provided by individual respondents. For example, a high expenditure for lodging by itself may appear as a potential outlier, but considered in concert with high values for length of trip and other trip spending such as groceries and meals, then the high lodging value appears reasonable. Finally, each remaining potential outlier was tested to determine its effect on the overall mean. If any single observation increased the statewide mean for that variable by 25 percent or more then it was deemed an outlier and the observed value for that observation was dropped from the analysis to prevent skewing the average. The outliers that were removed from the data as a result of this step are listed in Appendix H.

Assignment of "Other" expenses: In addition to explicit categories of trip and equipment expenses, the questionnaires included an "other" write-in blank to allow respondents to include fishing-related expenses that were not included in the list of specific expenditure items. Every write-in response was individually reviewed for proper categorization in the data set. In most cases, a write-in response could be appropriately assigned to an existing category of trip or equipment expense. For example, several respondents listed items of clothing as "other" trip expenses. These were assigned to the equipment clothing category. Likewise, some items listed as "other" equipment were more properly counted as trip expenses (e.g., groceries) and assigned accordingly. In each case, care was taken to ensure that any expenses were not double-counted (e.g., assigning a write-in expense for groceries to the groceries trip category if an identical value was already entered as a groceries trip expense. This was a particular issue with respect to package expenditures. Several respondents wrote-in "package" as an "other" expense while also including an identical value in the package section of the questionnaire. In each case of potential double-counting, the write-in value was set to missing. In all, 250 of 271 "other" trip expenses were assigned to more appropriate categories and 110 of 127 "other" equipment expenses were assigned to a more appropriate category prior to calculating economic estimates.

Non-response bias: To the extent possible, the survey responses were examined for non-response bias. In any survey, there is always the possibility that the persons who chose to respond are systematically different from the persons who did not respond. If such is the case, then extrapolating the results obtained from the sample to the survey population may produce inaccurate results unless appropriate adjustments are made. Tests for such bias can be made by comparing the responses of people who respond to the first mailing to those who respond to later mailings under the assumption that later responders are more like non-responders. The surveys for each mailing were to be

printed on different colored paper as the means for determining to which mailing people responded. In the Wave II survey, the mail house incorrectly printed both the second and third mailings on the same color paper. The resulting inability to distinguish between responses to the second and third mailings limited our statistical test to comparing only the first mailing responders to all other later responders. An analysis of variance on all expenditure variables found a statistically significant difference (at the 95% confidence level) in the mean expenditure between mailings for only two expenditure categories among the more than 60 expenditure variables in the surveys (ice purchased between May and June, and equipment expenditures for rods and reels). The lack of extensive differences between mailings, especially for expensive items such as boats and vehicles, indicates there was no systematic bias in the mean expenditures of anglers who responded to the first mailing compared to those who responded to subsequent mailings.

## DATA ANALYSIS

There were three main categories of fishing expenditures used in this study: trip expenditures, <sup>16</sup> equipment expenditures and real estate expenditures. Trip expenditures are the most complicated to calculate because they are based upon expenditures made during the most recent fishing trip taken during one of three fishing seasons (winter: January through end of April; spring: May/June; and summer/fall: July through end of October). <sup>17</sup> Because average trip expenditures by anglers in November and December are likely to be similar to those in January through April, total trip expenditures during November and December were estimated based on the number of trips reported during those months and the average trip expenditures reported by those who reported fishing January through April. As a result, trip expenditures needed to be summed across seasons. Equipment and real estate estimates are based on annual expenditures and do not need to be summed across seasons.

Separate analyses were conducted for resident and nonresident anglers, freshwater and saltwater, guided and unguided trips, for each geographic region. These analyses were performed after data manipulations as described below were completed. Resident and nonresident analyses were determined by the residency of the license holder.<sup>18</sup>

Further complicating the analysis of trip expenditures was that these expenditures could vary depending upon: whether the trip was guided or unguided, whether the trip was purchased as part of a package, whether the type of water being fished was saltwater or freshwater, and the subregion of the state being fished. As a result, trip expenditures were analyzed at each relevant combination of factors and then aggregated. The next several subsections explain each procedure for estimating expenditures in greater detail.

## NON-PACKAGE TRIP EXPENDITURES

Trip expenditures were calculated on a per-fishing-day basis. These per-day trip expenditures were calculated based upon specific types of fishing trips (e.g., saltwater versus freshwater).

21

<sup>&</sup>lt;sup>16</sup> Trip expenditures include both package (trip expenditures bundled together as a 'package trip') and non-package spending.

Data to derive expenditure estimates for November/December fishing trips were not collected because 1) these responses to the first wave survey would likely suffer from recall bias and 2) the second wave survey was fielded before November/December.

<sup>&</sup>lt;sup>18</sup> The guided and unguided analyses were determined by responses to questions 13 (Appendix A), 10, 20 (Appendix B), 9 and 20 (Appendix C). Analyses by subregion were based upon responses to questions 14 (Appendix A), 11 and 21 (Appendix B), and 10 and 21 (Appendix C).

<sup>&</sup>lt;sup>19</sup> The trip expenditure question is question 17 in Appendix A, questions 13 and 23 in Appendix B, and questions 13 and 24 in Appendix C.

Because of this, the average per-day trip expenditures could be multiplied by the total number of specific types of fishing days<sup>20</sup> to arrive at regional and state aggregates. In addition to waters fished, type of trip included whether the trip was guided or unguided, whether the trip was purchased as part of a package, and the subregion of the state being fished. Separate analyses were made for each type combination.

The procedures used to calculate per-day trip expenditures were the same across all three time periods/seasons referred to in the angler survey (Jan-Apr, May-June, July-October). The procedure described below uses a resident angler fishing during the Spring season time period as an example.

The first step was to allocate fishing days<sup>21</sup> to type of water (freshwater or saltwater). The survey asked anglers about the types of water they fished on their last spring fishing trip.<sup>22</sup> Anglers were allowed three responses: 'saltwater', 'freshwater' or 'both'. Fishing days were allocated to freshwater or saltwater if the angler stated the trip was either fresh or saltwater. Expenditures for survey responses that identified 'both' water types had to be apportioned to either freshwater or saltwater because later we need to multiply our per-day trip expenditures by the total number of anglers days taken in Alaska during 2007, and angler days are collected by ADF&G as being either freshwater or saltwater days.

To allocate fishing days to freshwater or saltwater for those anglers who stated 'both', the following procedure was used. For each observation, the number of freshwater and saltwater fishing days the angler stated they took in Alaska *during the spring fishing season* was summed.<sup>23</sup> Then, for each 'both' observation, freshwater (F/T) and saltwater (S/T) fishing-day ratios were calculated:

(1a)  $F/T = \underline{\text{(total number of spring freshwater fishing days)}}$ 

(total number of spring fishing days)

(1b) S/T = (total number of spring saltwater fishing days)

(total number of spring fishing days)

These ratios were then multiplied by the total number of days (DAYS) <sup>24</sup> the angler fished during their last spring fishing trip to allocate these 'both' fishing days to either fresh (FRESHDAYS) or saltwater (SALTDAYS).

- (2a) FRESHDAYS = F/T \* DAYS
- (2b) SALTDAYS = S/T \* DAYS

Once days of 'both' fishing were allocated to either freshwater or saltwater, any observations where freshwater days or saltwater days were missing or zero were deleted from further analysis.<sup>25</sup> This was done for two reasons. First, the above variables begin to form the

The number of fishing days for each specific type of fishing by data analysis region was provided by the State of Alaska, Department of Fish and Game from the 2007 Statewide Harvest Survey (SWHS).

<sup>&</sup>lt;sup>21</sup> Based on responses to question 6, Appendix B.

<sup>&</sup>lt;sup>22</sup> Based on responses to question 9, Appendix B.

Based on responses to question 3, Appendix B. This question was also used to calculate similar ratios for summer/fall fishing.

Based on responses to question 6, Appendix B.

Zero or missing responses for days fished for a specific season are valid since a person could have 1) not fished during a particular season but did fish during another season, or 2) may not have fished at all during 2007 yet made non-trip expenditures (e.g. equipment, real estate) and they filled out the survey.

denominator that will be used to divide trip expenditures to generate a per-day trip expenditure. Second, per-day trip expenditures will be later multiplied by the total number of fishing days to generate total trip spending during 2007; the total number of fishing days includes, by definition, only anglers active during 2007. In turn, any non-active anglers in the above calculation were eliminated. However, if trip expenditure information was missing but the angler did fish, the missing expenditures were converted to zero.

The next step was to allocate each trip expenditure line item (e.g., bait, fuel, etc.) to either freshwater or saltwater fishing. To do this, for each observation, two ratios were calculated: one to measure the percent of fishing days on the trip allocated to freshwater (FRAT), and another to measure the percent of fishing days on the trip allocated to saltwater (SRAT).

- (3a) FRAT = FRESHDAYS/DAYS
- (3b) SRAT = SALTDAYS/DAYS

Note that FRESHDAYS and SALTDAYS in equations 3a and 3b include all of the observations whereas FRESHDAYS and SALTDAYS in equations 2a and 2b only include 'both' fishing days.

Each expenditure line item was then multiplied by FRAT and SRAT to allocate the expenditure to fresh and saltwater fishing:

- (4a) FEXP = EXP\*FRAT
- (4b) SEXP = EXP\*SRAT;

where EXP denotes one of the expenditure line items.

The next step in constructing per-day trip expenditures was to allocate total fishing days (freshwater or saltwater) to the subregions fished (using question 11, Appendix B)<sup>27</sup>. First, for each observation, the total number of subregions fished during the trip (RGDAYS) was calculated. To calculate a per subregion number of freshwater days (PRFDAYS), the number of freshwater days was divided by the total subregions fished during the trip. Similarly, to calculate a per subregion number of saltwater days (PRSDAYS) the number of saltwater days was divided by the total subregions fished.

- (5a) PRFDAYS=FRESHDAYS/RGDAYS;
- (5b) PRSDAYS=SALTDAYS/RGDAYS;

The total number of per-subregion freshwater or saltwater fishing days was allocated to the subregions visited by multiplying the per-subregion days by a series of binary (0/1) variables that represented whether the respondent indicated fishing in that subregion. The end result of these calculations is an allocation of the number of per-subregion freshwater or saltwater fishing days occurring in each subregion.

Although fishing could occur in a subregion, it does not mean that was the subregion where the expenditures took place. For example, an angler could have fished in subregion B but bought fuel for the trip in subregion C.<sup>28</sup> Thus, a fishing day in subregion B could have a spillover

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<sup>&</sup>lt;sup>26</sup> Active anglers are those who stated they actually fished at least one day (question 9, Appendix A; questions 6 and 16, Appendix B; questions 5 and 16, Appendix C).

 $<sup>^{27}</sup>$  Based on responses to question 11, Appendix B.

<sup>&</sup>lt;sup>28</sup> Anglers were asked to report the subregion(s) they made each of their purchases (question 13, Appendix B)

economic impact into subregion C – and we wanted to capture all of these impacts. Thus, the next step of the analysis was to allocate each trip expenditure line item to the subregion where the purchase occurred. To do this, the number of subregions (RGEXP) where each expenditure took place (if no location information was available we deleted the observation from further analysis) was calculated. Freshwater and saltwater trip expenditures were then divided by the total number of subregions where the expenditure took place. For example the per-region salt and freshwater expenditures were calculated as:

## (6a) PRFEXP=FEXP/RGEXP

#### (6b) PRSEXP=SEXP/RGEXP

The next calculation was to use a set of binary variables to allocate per-subregion fresh (PRFEXP) and saltwater (PRSEXP) expenditures to the specific subregion where the expenditures took place. These location-specific freshwater and saltwater expenditures were then divided by the per-subregion number of freshwater or saltwater fishing days (PRFDAYS, PRSDAYS) to arrive at final location-specific, per-subregion, per-day, freshwater and saltwater fishing estimates for each expenditure line item.

Because fishing trips can include non-fishing activities, and non-fishing trips may include fishing, it was important when performing this impact analysis to focus the trip-expenditure analysis to only include expenditures where fishing was the primary purpose of the trip, and exclude expenditures when the trip was not primarily taken to fish. Otherwise, the end result would have been an overestimate of the economic impact of sportfishing. In other words, non-fishing expenditures (e.g., *fuel, airfare, travel, rentals, ice, groceries, meals, lodging, gifts, and amusements*) of any trip that would have occurred even if the angler was unable to go fishing were not included. To exclude non-fishing expenditures from trips that would have been taken if the person would not have been able to go fishing, positive responses to question 7 (Appendix B) were used to eliminate the following expenditure categories: *fuel, airfare, travel, rentals, ice, groceries, meals, lodging, gifts, amusements, and other expenditures.* Specifically, when the angler stated they would have taken the trip even if they were unable to go fishing, then the above expenditures were converted to zeros.

## PACKAGE TRIP EXPENDITURES

Package spending refers specifically to pre-arranged travel packages that nonresidents purchased prior to departing on their trip to Alaska. Package trip expenditures were calculated using procedures similar to that used for non-package expenditures with several important differences. First, package trip expenditure information was only collected from nonresidents<sup>29</sup> (question 12, Appendix C) because, in general, nonresidents are much more likely to purchase a travel package for sportfishing than residents. Second, it was not known where the expenditures were actually made; however, it was known which subregions of the state were visited by the angler on their package trip. Third, it was not known how much money was spent for specific line items; only the total amount spent on the package was known. Finally, a change to the treatment of package trip expenditures when the trip was not taken primarily to fish (question 6, Appendix C) was made. How the latter three items impact the calculation procedures is explained below.

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<sup>&</sup>lt;sup>29</sup> Based on responses to question 12, Appendix C.

With respect to estimating the distribution of expenditures across subregions, the 'subregion visited' variable was used the same way the 'subregion of trip expenditure' variable (RGEXP) was used. That is, the number of subregions visited was used to calculate the number of subregions (RGEXP).

With respect to estimating expenditures by line item, total package spending (TOTPKGEXP) was allocated to individual line items (spending on transportation to or from Alaska, transportation once the angler arrived in Alaska, guide fees, lodging, and food) in the following manner. First, for both the spring and summer/fall time seasons/periods, <sup>30</sup> the average spending patterns on these expenditure items for nonresident, non-package, guided fishing trips was calculated (Table 4). The nonresident, non-package, guided spending profile was used as it was assumed it most closely reflected the spending structure of a nonresident package trip.

Table 4.—Average spending profile for specific non-package trip expenditures for nonresident, guided trips by time period, 2007.

	Spring	Summer/Fall
Transportation to or from Alaska	\$583	\$594
Transportation within Alaska	\$122	\$78
Fishing guides &/or charter boats	\$485	\$502
Lodging	\$377	\$387
Meals	\$223	\$246
Total of profile	\$1,790	\$1,807

A set of variables (PEXPTMP) were calculated by multiplying the averages above (EXPAVG) by the set of binary variables (BINEXP) that indicate whether the respondent checked the boxes associated with the spending categories in the package expenditure question.

## (7) PEXPTMP = EXPAVG \* BINEXP

For each of the five expenditure categories above, PEXPTMP was either equal to the average noted in Table 5 (if the category box was checked) or was equal to zero (if the category box was not checked). Next, for each observation, the five variables were summed to obtain a total (TOTTMP). If TOTTMP was zero (meaning the angler did not check any category boxes) then the percent of package spending (PCNTEXP) allocated to each expenditure category reflected the percent of spending indicated by the averages shown in Table 4. If TOTTMP = 0 then:

### (8a) PCNTEXP = EXPAVG / TOTAVG;

where TOTAVG = 1,790 (the sum of column labeled 'Spring' in Table 4) for spring fishing and TOTAVG = 1,807 (the sum of column labeled 'Summer/Fall' in Table 4) for summer/fall fishing.

If TOTTMP was greater than zero, (meaning the angler did check at least one of the category boxes) then the percent of package spending (PCNTEXP) allocated to each expenditure category

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Note: We asked about three fishing seasons for residents but only two for nonresidents; we did not ask nonresidents any questions about their winter fishing since relatively few nonresidents fish in Alaska during the winter months (source: DSF).

reflected the percent of spending indicated by the averages shown in Table 4, taking into account that some of the categories are zero:

## (8b) PCNTEXP = PEXPTMP / TOTTMP.

The total spent on package expenditures (TOTPKGEXP) was then allocated to each expenditure category as:

## (9) PCKGEXP = PCNTEXP \* TOTPKGEXP.

Finally, all of the package trip expenditures for any trip that would have occurred if the angler was unable to go fishing were excluded. Otherwise, the end result would be an overestimate of the economic impact of sportfishing. This is similar to the procedure used for non-package trip expenditures except with non-package expenditures guide fees were not excluded; here all of the package trip expenditures, including the guide fee portion were excluded.

## FISHING EQUIPMENT EXPENDITURES

Fishing equipment expenditures<sup>31</sup> (expenditures for fishing equipment and fishing-related equipment) were calculated based on all observations of the data; that is, any missing fishing equipment expenditure observations were assumed to be equal to zero. Similarly, the missing location-of-purchase codes for these observations were also coded to zero. This allowed the mean per-angler estimates to be multiplied by the total number of licensed anglers in Alaska to represent total fishing-related equipment expenditures. Separate analyses were conducted for nonresident and resident anglers.

Fishing equipment expenditures were allocated to the separate subregions by multiplying the respondent's expenditure by a set of binary variables reflecting the stated location of purchase. If a respondent denoted that their purchase was located in multiple subregions, then the relevant expenditures were divided equally across the subregions. Expenditures from respondents who did not provide a location for their purchase were not included in the analysis.

There were two main types of fishing equipment (Table 5); those that are only used for fishing (e.g. fishing tackle) and those that can be used for fishing and other activities (e.g., boats or other watercraft). One-hundred percent of the stated expenditure for the former type of equipment (hereafter, fishing equipment) was allocated to fishing and used in the estimation procedures. For the latter type of expenditure (hereafter, fishing-related equipment), the respondent's stated expenditure for each line item was multiplied by the relevant stated "percent used for sportfishing" provided by respondent<sup>32</sup> (e.g., question 24, Appendix B).

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<sup>&</sup>lt;sup>31</sup> The fishing equipment questions are listed as question 17 in Appendix A, question 24 in Appendix B and 25 in Appendix C.

<sup>&</sup>lt;sup>32</sup> For example, using responses to question 24, Appendix B.

Table 5.—Categories of fishing and fishing-related equipment.

## **Fishing Equipment:**

Licenses and stamps

Rods, reels, & components

Fishing tackle (lines, leaders, lures, creels, stringers etc)

Tackle boxes, cases to protect fishing equipment

Depth finders, fish finders, other electronics

Landing nets, dipnets & gillnets

Miscellaneous fishing equipment (knives, scales, etc.)

Shellfish fishing equipment (shovels, pots, buckets, etc.)

Fish mounting (taxidermy)

Books and magazines devoted to fishing

## **Fishing-related Equipment:**

Items to store/preserve fish (smoker, vacuum sealer, etc.)

Coolers, fish boxes

Outdoor Clothing (fishing vest, raingear, head net, etc.)

Boots, shoes, waders and other footwear

Life jackets, survival suits or other PFDs

Boats, canoes, rafts, kayaks and other watercraft

**Boat motors** 

Trailers, hitches, and accessories

Other boat parts and accessories

Bear spray, bug spray, sun screen

Firearms for personal protection

Cameras, binoculars, sun glasses

Tents, screen rooms, tarps, backpacks, sleeping bags

Camping trailer (pop-up, self-contained, 5<sup>th</sup> wheel)

Other camping equipment (stoves, grills, lanterns, etc.)

Vehicles (trucks, SUVs, motorhomes, etc.)

Airplanes and related equipment

ATVs, snowmachines

Boat/camper registrations and excise taxes

Vehicle, boat or airplane repair/maintenance

However, many of the respondents who provided a fishing-related equipment expenditure did not provide an answer to the "percent used for sportfishing" question. For each missing line item, the average response for the "percent used for sportfishing" part of the question was calculated based upon responses from those who did complete the question (Table 6). Separate calculations were made for residents and nonresidents. These average percentages were then substituted for the missing data. That is, for each observation, when the respondent provided a fishing-related expenditure but the "percent used for sportfishing" was missing, the missing value was replaced with the appropriate average percentage across all respondents in that group (e.g., residents). Finally, the stated fishing-related expenditure was multiplied by the new "percent used for sportfishing" variable.

Table 6.—Estimates of the average percent allocation to fishing activities for fishing-related equipment expenditures, 2007.

Items	Resident Anglers	Nonresident Anglers
Items to store/preserve fish	77.5%	72.9%
Coolers, fish boxes	76.6%	67.4%
Outdoor Clothing	70.2%	58.6%
Boots, shoes, waders	75.4%	65.9%
Life jackets, survival suits	76.6%	87.8%
Boats, canoes, other watercraft	73.6%	50.0%
Boat motors	78.1%	71.4%
Trailers, hitches, and accessories	66.4%	55.1%
Other boat parts and accessories	79.9%	80.0%
Bear spray, bug spray, etc.	58.9%	59.8%
Firearms	51.8%	33.3%
Cameras, binoculars	50.5%	52.4%
Tents, backpacks, sleeping bags	53.2%	24.6%
Camping trailer	53.8%	1.2%
Other camping equipment	57.1%	44.4%
Vehicles (trucks, SUVs, etc.)	45.1%	46.6%
Airplanes and related equipment	51.2%	57.9%
ATVs, snowmachines	36.1%	0.0%
Boat/camper registrations	76.2%	64.7%
Vehicle, boat or airplane repair	62.5%	57.5%
Other	66.7%	35.4%

## REAL ESTATE EXPENDITURES

Fishing-related real estate expenditures<sup>33</sup> (expenditures for owning or leasing real estate and maintenance or construction expenditures) were calculated based on the entire data set; where any missing real estate expenditure observations were assumed to be equal to zero. Similarly, the missing location codes for these observations were also coded to zero. This allowed the average per-angler estimates to be multiplied by the total number of licensed anglers in Alaska to represent total angler-related real estate expenditures. Separate analyses were conducted for resident and nonresident anglers.

Real estate expenditures were allocated to the separate subregions by multiplying the respondent's stated real estate expenditure by a set of binary variables reflecting the location of the real estate. If a respondent denoted that their real estate was located in more than one subregion, then the relevant expenditures were divided equally across subregions. Real estate expenditures from respondents who did not provide a location for their real estate were not included in the analysis.

<sup>33</sup> The real estate questions are listed as question 18 in Appendix A, 25 in B and 26 in C. The respondent was asked to only report expenditures for real estate used primarily for fishing.

Although information on four types of real estate expenditures was collected, the IMPLAN modeling treats ownership and leasing of real estate similarly; in turn these two expenditures were added together. However, after examining the lease/ownership data collected in the surveys, additional discussion revolved around two key issues: 1) the reliability of the data reported in the surveys to these questions; and, 2) the appropriateness of attributing 100% of real estate spending to sportfishing activity.

With regard to the first issue, the intent of the question was to ascertain average annual costs associated with owned or leased properties. As examples, the question included parenthetical references to mortgage payments, insurance, property taxes, etc. A review of the responses made it clear that many respondents included full purchase prices for real estate. With no way to deduce the true intent of the respondents, there was no mechanism for estimating annual costs associated with real estate or determine the appropriate IMPLAN sectors for analyzing the impacts of those expenditures. Given the lack of specificity in the question and resulting data, it was decided to take a more conservative approach and eliminate entirely any purchase or lease costs from the estimates of angler spending and their multiplier effects. It should be noted a purchase of real estate, while producing a large spending figure, has little impact on the regional economy because it represents simply a transfer of existing assets from one owner to another. The economic impact in such transactions generally derives from the fees paid for the services of intermediaries such as a real estate brokers, lawyers or financial institutions.

The second issue relates to the allocation of real estate construction and maintenance costs to go sportfishing when a portion of that spending might have other attributions. People reported purchasing real estate, constructing structures and maintaining the property for the primary purpose of sportfishing. However, it is reasonable to assume that an unknown portion of these expenditures would not have been made if the survey respondents were not allowed to sell their property for a profit at some later time. Some properties are likely purchased in part for investment purposes.

To find a solution, other economists outside of the project were consulted to discuss options. This included posting the issue and questions on the IMPLAN internet forum, reviewing previous economic studies, and direct phone conversations with IMPLAN economists. No clear solutions were identified from any source. An adjustment to reduce the reported amounts of real estate maintenance and construction attributed to sportfishing by some arbitrary percentage was considered, however, the project team agreed that: 1) the wording of the question asking participants to record real estate maintenance and construction expenditures primarily for sportfishing was sufficiently clear; 2) that actual expenditures reported seemed appropriate and easy to interpret; and, 3) that such expenditures were more likely made to facilitate use of the property for sport fishing activities (than to maintain future profit) and to occur within Alaska. Thus, for the purposes of this analysis and report, we assumed that 100% of the reported real estate maintenance and construction expenses were related to sportfishing and total real estate maintenance and construction expenditures were included in the IMPLAN analysis.

# AGGREGATION OF SEASONAL PER-DAY TRIP EXPENDITURES TO REFLECT TOTAL ANGLER DAYS.

There were three fishing time periods (seasons) included in the trip expenditure analyses: winter fishing (January to the end of April); spring fishing (May-June) and summer/fall fishing (July through the end of October). The survey collected expenditure data on winter fishing trips only

from resident anglers. Spring and summer/fall trip data were collected from both resident and nonresident anglers.

For Wave I, information about the number and types of trips the angler took between January 1 and the end of June was collected for each subregion.<sup>34</sup> Information about the last trip (number of days fishing, spending amount and location, subregions visited, types of water fished, etc.) the angler took in this time period was also collected. Similar information was collected in Wave II concerning the number and types of trips the angler took between May 1 and the end of October was collected for each region<sup>35</sup> as was information about the last trip the angler took in both the spring and summer/fall seasons.

In the analyses of trip data, January through April information from Wave I was treated as one unit of analysis; May-June information from Waves I and II were pooled as a unit of analysis, and July-October information from Wave II was a unit of analysis.

After generating all of the various combinations (e.g., resident, saltwater, guided in subregion A) of season-specific trip expenditure estimates, these estimates were aggregated to represent annual fishing-related activity. Estimates of the total number of fishing days occurring during 2007 from the SWHS were obtained from ADF&G, for the following combinations: saltwater/freshwater, guided/unguided, resident/nonresident, for each subregion. The distributions of season-specific fishing days for each possible freshwater/saltwater, resident/nonresident, and subregion trip combination were then calculated using the responses from specific questions in the survey instrument. These distributions were then applied to the appropriate ADF&G estimate of angler-days to calculate the number of fishing days occurring during each fishing season (Table 7). Since the survey information about the seasonal distribution of guided/unguided trips was not available, the distributions in Table 7 were applied equally to guided and unguided trips.

<sup>34</sup> For example, see questions 5 and 6, Appendix A.

<sup>&</sup>lt;sup>35</sup> For example, question 3, Appendix B and question 2, Appendix C.

<sup>&</sup>lt;sup>36</sup> Using the responses from questions 5 and 6, Appendix A, question 3, Appendix B and question 2, Appendix C.

Table 7.—Estimated percent of fishing days from angler responses, by season, residency, watertype and area of the state, during 2007.

	Season				
Residency and Water Type	Winter*	Spring**	Summer/Fall***		
Resident freshwater	%	%	%		
Southeast	16	51	33		
Prince William Sound /N. Gulf Coast	5	50	45		
Cook Inlet	9	45	46		
Bristol Bay/Aleutians	5	51	44		
Tanana/Copper River Valleys	8	47	46		
Arctic-Yukon-Kuskokwim Areas	11	42	47		
Resident saltwater					
Southeast	9	51	40		
Prince William Sound /N. Gulf Coast	4	40	56		
Cook Inlet	8	55	36		
Bristol Bay/Aleutians	5	60	35		
Tanana/Copper River Valleys	NA	NA	NA		
Arctic-Yukon-Kuskokwim Areas	0	13	88		
Nonresident freshwater					
Southeast	0	31	69		
Prince William Sound /N. Gulf Coast	0	21	79		
Cook Inlet	0	26	74		
Bristol Bay/Aleutians	0	29	71		
Tanana/Copper River Valleys	0	35	65		
Arctic-Yukon-Kuskokwim Areas	0	23	77		
Nonresident saltwater					
Southeast	0	39	61		
Prince William Sound /N. Gulf Coast	0	27	73		
Cook Inlet	0	39	61		
Bristol Bay/Aleutians	0	25	75		
Tanana/Copper River Valleys	NA	NA	NA		
Arctic-Yukon-Kuskokwim Areas	0	100	0		

NA denotes not applicable as there is no saltwater fishing available in the Tanana/Copper River Valleys.

 $<sup>* \</sup>quad \textit{Winter refers to months November-April.}$ 

<sup>\*\*</sup> Spring refers to months May – June.

<sup>\*\*\*</sup> Summer/Fall refers to month July – October.

# ECONOMIC ANALYSIS/MODELING

The expenditures made by anglers for sportfishing activities generate additional economic benefits throughout the Alaska economy beyond the initial angler spending. These additional economic benefits are typically estimated with regional input-output models that relate changes in some specific industry to impacts on other industries in the regional economy. The IMPLAN input-output software provides a flexible tool for conducting economic impact analyses at various geographic levels and was used in this study to estimate the additional economic benefits to the Alaska economy generated by resident and nonresident direct spending on sportfishing activities in Alaska. For the purposes of this study, separate regional models were created to estimate the economic contributions generated at the regional levels and for the statewide Alaska economy. In its base form, the model includes 509 economic sectors, or industries.

Input-output models are driven by some change in economic activity, usually sales. The model produces estimates of the total multiplier effects (indirect and induced) that arise from the spending by sport anglers (the direct effect). Several measures of the economic effects are available, with the most commonly used being output, employment and income. The direct effect refers to the initial stimulus to the economy. In this study, it refers specifically to the dollars spent by sport anglers for trip-related purchases, fishing equipment, and other spending that is immediately attributable to their fishing activity. In the strictest sense, the direct effect does not always equate with angler spending due to economic leakages. Because much of the equipment purchased by anglers is manufactured outside of the state, some of the dollars spent by anglers in Alaska leak immediately beyond the state's borders and do not have a direct effect on the Alaska economy. In that case, angler spending may not equal direct effect in the language of input-output models (the amount of goods and services imported directly to meet the demands of angler spending is shown in Append L). In other cases, the amount of angler spending is the direct effect. For example, spending for lodging and restaurant meals represents purchases of goods and services that are produced entirely where they are bought and the entire purchase is captured in the direct effect on the regional economy. The economic figures reported in the results section include both total angler spending and its associated direct effects on the Alaska economy.

Indirect effect refers to the economic activity (e.g., output, employment, income) that result from the activity in other businesses that supply the industries stimulated by the direct effect. Those indirectly affected industries, in turn, stimulate additional activity among their local suppliers, and so on. For example, if an angler spent \$100 to purchase the services of a guide, the guide uses a portion of the \$100 paid by the angler to purchase boat fuel, equipment, bait, utilities, etc. from local sources. In addition, a portion of the \$100 pays for goods and services from out-of-state providers. In the next round, the in-state business that supplies bait to the guide (as well as all of the other in-state businesses that supply goods and services to the guide), in turn, must use part of the money that it receives from the guide to pay its own business expenses (e.g., fuel, gear, utilities) Their suppliers, in turn, also pay in-state and out-of-state suppliers to support their increased business activity. This indirect activity continues in this way until the effect becomes negligible as a portion of each round of payments for goods and services eventually leaks out of the local economy.

The **induced effect** measures the economic activity that results from the household spending of salaries and wages that were generated from the business activity associated with the direct and indirect effects.

The interpretation of the results of the economic models depends on the changes that drive the model. The term "economic impact" is normally reserved to describe some level of economic activity that would not occur except for the initial economic activity. In the case of recreational activities like sportfishing, it is generally agreed that economic impact comes from spending by visitors to the region. If not for their presence, their spending would never occur. If quality sportfishing was no longer available in Alaska for example, nonresident anglers may choose to fish elsewhere and their spending would not occur in Alaska and thus not generate additional economic effects in the Alaska economy. Most resident anglers, on the other hand, choose fishing as an activity on which to spend their recreational dollars locally. If quality sportfishing was no longer available some residents would likely choose some other local recreational activity on which to spend their money in place of fishing and their spending would still remain in the Alaska economy.

It is generally acknowledged that retained economic activity can also represent a real economic impact. For example, the quality of fishing opportunities in Alaska is such that some anglers choose to fish in Alaska rather than go elsewhere. If the quality of Alaska fishing were to decline, then some dedicated resident anglers may choose to travel outside of the state for sportfishing and their dollars would be lost to the Alaska economy. It is unclear what portion of resident anglers would fall into that category. In another retention scenario, it may be the case in Alaska that there are few recreational alternatives to fishing, so that if the quality of fishing as a recreational activity declined, some portion of anglers may choose to travel outside of the state to pursue an alternative recreational activity (e.g., a Caribbean vacation). It was beyond the scope of this study to investigate either of those scenarios and for purposes of this project any reference to economic impact should be based on the expenditures of nonresident anglers.

The focus of this study was on the total economic activity associated with sportfishing as a measure of its overall contribution to the state's economy. In that case, it was appropriate to include all spending for sportfishing, including both resident and nonresident anglers. That measure is alternately called "economic contribution" or "economic significance", among others. This study was concerned with measuring the economic significance of sportfishing and therefore includes resident spending as part of the direct effect. To help understand the relative contributions that residents and nonresidents make to the economy, results in this report were broken out separately by residency.

## INDUSTRY SECTOR ASSIGNMENT

The economic input-output models are driven by an initial stimulus (the direct effect) to a specific sector, or combination of sectors, of the economy. Anglers make a wide range of purchases to support their fishing activity. To properly measure the effect of such purchases, each purchase must be assigned to one of the 509 specific sectors in the IMPLAN economic models. In some instances, angler purchases are allocated to more than one sector. Table 8 presents the sector assignments for each angler trip expenditure category estimated by the sportfishing survey.

Table 8.–IMPLAN sector assignments for angler trip expenditures.

Economic survey trip spending categories	IMPLAN Sector	Sector Title
Fuel and oil for vehicles, boats, planes	PCE 8140	Gasoline and oil
Guide and charter fees	478 modified	Other amusement, gambling, and recreation industries
Airfare to and from Alaska	391	Air transportation
Commercial travel within Alaska	391,393,395	Air, water, and intra-urban transportation
Fish processing and shipping	71	Seafood product preparation and packaging
Rentals (boat, equipment, autos)	435	General and consumer goods rental except video tapes
Derby tickets	493	Civic, social, professional and similar organizations
Boat launch and dock fees	478	Other amusement, gambling, and recreation industries
Ice	85	Soft drink and ice manufacturing
Bait (natural bait only)	16	Fishing
Groceries, food, liquor bought in stores	PCE1111	Food for off-premise consumption
Restaurants, bars, take-out food	481	Food services and drinking places
Lodging (hotels, campgrounds, cabins)	479, 480	Hotels, motels and other lodging; campgrounds
Souvenirs and gifts	411	Miscellaneous store retailers
Other entertainment expenses	478	Other amusement, gambling, and recreation industries

All of the angler surveys in the study included groceries as an expenditure category. Items purchased at a grocery store represent a market basket of commodities. The IMPLAN software includes a collection of predefined commodity groupings with PCE designations (Personal Consumption Expenditures) that facilitates the assignment of expenditures to a large group of commodities. PCE1111, for example, is the designation for food purchased for off-premise consumption (i.e. groceries). Estimates of spending on groceries were applied to the vector of commodity sectors defined by this grouping. In cases where spending was allocated to multiple IMPLAN sectors (non-PCE groups), the expenditures were divided evenly across the specified sectors. Table 9 presents the sector assignments for equipment expenditure reported by anglers.

Table 9.–IMPLAN sector assignments for angler equipment and real estate expenditures.

Economic survey equipment spending categories	IMPLAN Sector	Sector Title
Equipment		
Rods and reels	381	Sporting and athletic goods manufacturing
Tackle (lines, leaders, lures, etc.)	381	Sporting and athletic goods manufacturing
Tackle boxes	381	Sporting and athletic goods manufacturing
Electronics (e.g, depth finders)	314	Search, detection, and navigation instruments
Nets	381	Sporting and athletic goods manufacturing
Misc. fishing equipment	381	Sporting and athletic goods manufacturing
Shellfish fishing equip.	381	Sporting and athletic goods manufacturing
Taxidermy	473	Independent artists, writers, and performers
Books and magazines	414, 415	Book and periodical publishers
Smokers, vacuum sealers, etc.	329	Cooking and refrigeration appliances
Coolers, fish boxes	177	Plastics plumbing fixtures and all other plastics products
Clothing	107	Cut and sew apparel manufacturing
Boots, waders, other footwear	110	Footwear manufacturing
Life jackets, PFDs	101	Textile bag and canvas mills
Boats, canoes, kayaks, etc.	358	Boat building
Boat motors	286	Other engine equipment manufacturing
Trailers, hitches, etc.	350	Motor vehicle parts manufacturing
Other boat parts	361	All other transportation equipment manufacturing
Bear spray, bug spray, etc.	169	Custom compounding of purchased resins
Firearms	250	Small arms manufacturing
Cameras, binoculars	271	Optical instrument and lens manufacturing
Tents, backpacks, sleeping bags	101	Textile bag and canvas mills
Camping trailer	349	Travel trailer and camper manufacturing
Other camping equipment	381	Sporting and athletic goods manufacturing
Trucks, SUVs, RVs	344	Automobile and light truck manufacturing
Planes and related equip	351	Aircraft manufacturing
ATVs, snowmachines	361	All other transportation equipment manufacturing
Registration and excise taxes	504	State & Local Non-Education
Vehicle, boat, plane repairs	483, 484, 485, 486	Automotive, electronic, machinery and household repair
Other equipment	381	Sporting and athletic goods manufacturing
Real Estate used primarily for fishing		- <del>-</del>
Maintenance and repairs	42	Maintenance and repair of residential structures
Construction of cabins, sheds, etc.	33	New residential 1-unit structures, nonfarm

## ALASKA SPORTFISHING GUIDE BUSINESS SURVEY

Sportfishing guides are a particularly important component of recreational fishing in Alaska, accounting for more than 23% of the total angler days fished in 2007 (ADF&G, SWHS 2007). It is likely an even bigger part of fishing expenditures for specific types of anglers (e.g., nonresidents on guided trips). While properly categorized in IMPLAN sector 478 (other amusement, gambling, and recreation industries), this sector includes many other types of activities and is unlikely a good representation of the fishing guide industry as it exists in Alaska. Due to its importance, it was deemed necessary to conduct a survey of Alaska fishing guides in order to produce model results that more accurately reflect the nature of their industry.

A short survey was developed to gather information that would allow the input-output model to be modified to reflect Alaska guide services. The questionnaire asked respondents to indicate how their businesses expenses are distributed across a range of industries, and what portion of each expense is made in Alaska (Appendix F). As with other industries, the proportion of the goods or services purchased by Alaska guides that was actually produced by Alaskan industries was determined internally by the model. The questionnaire intentionally did not ask guides to report their expenditure estimates in dollar terms in an effort to encourage a higher response to the survey. The resulting information was then used to modify the production function for IMPLAN sector 478 to more accurately reflect the guides' spending patterns.

The guide business survey was conducted in three mailings:

- o December 3, 2007
- o January 4, 2008
- o February 5, 2008

The same mail house that was used to print and distribute the angler expenditure questionnaires was hired to print and distribute the Alaska Sportfishing Guide Business Survey.

A random sample, stratified by type of water guided, was drawn from the ADF&G's list of 1,420 licensed guide businesses operating in 2006 The sampling was weighted by total trips logged, to reflect the likelihood of the guide's expenditure pattern to represent the total expenditures by guides. Two hundred guides were drawn from the total pool of guides who fish primarily in freshwater; 200 guides were drawn from the total pool of guides who fish primarily in saltwater; 100 guides were drawn from the total pool of guides who fish primarily in both fresh and salt water. Prior to mailing the survey, the mailing lists were compared to the list of guides operating in 2007 to eliminate any guides who were no longer in business. Any that were no longer operating were replaced with another guide operation randomly drawn from the 2006 list. The 2007 list was not utilized for the drawing because it did not include any information at the time of sample draw about numbers of trips logged on which to base the sample weighting. Of the 500 surveys that were mailed, 162 were completed and 29 were returned as undeliverable for an overall response rate of 34.4%. Detailed response rates, by region, are presented in Appendix F.

A Microsoft Access database was created for data entry of the guide business survey. Two key vectors of responses were utilized in the modification of the IMPLAN model: 1) the percent that each category of business expense represents of the respondent's total business expenses (i.e., the production function); and, 2) the percent of each business expense category that the respondent purchased in Alaska. Summary data analysis checks were employed to check for errors. For the first response vector, the sum of responses should add to 100%. For the second response vector, no single response should exceed 100%. In several surveys, the sum of responses did not total 100% and the individual response categories were adjusted to force the sum to equal 100% under the following rule. If the sum of the response categories was less than 90% or more than 110% then the survey was discarded as unusable. If the sum fell within that range but was not equal to 100%, the each category response was proportionally adjusted to force the sum to equal 100%.

## REGIONAL ECONOMIC MODELS

Because one IMPLAN sector (478 - Other amusement, gambling, and recreation industries) was modified to reflect the freshwater and saltwater guide production functions estimated from the

Alaska Sportfishing Guide Business Survey, separate regional models were necessary to estimate the economic contribution of saltwater anglers and freshwater anglers.

The following statewide, regional and subregional models were created to estimate the associated contributions of sportfishing. The economic contribution of sportfishing associated with the subregion denoted as Southeast Marine was estimated with the Southeast saltwater model.

- Statewide, total
- Statewide, freshwater
- Statewide, saltwater
- Southeast, total
- Southeast, freshwater
- Southeast, saltwater (also called Southeast marine)
- Southcentral, total
- Southcentral, freshwater
- Southcentral, saltwater
- Interior, total
- Interior, freshwater<sup>37</sup>
- Cook Inlet, total
- Cook inlet, freshwater
- Cook inlet, saltwater

The IMPLAN regional models are based on 2006 economic data obtained from Minnesota IMPLAN Group, the producers of the IMPLAN modeling software. Deflators included within the modeling software were employed to account for inflation effects between the model year data (2006) and the year of reported angler expenditures (2007). Data are available for each of the boroughs in Alaska and adjacent boroughs can be combined to create custom analysis regions. In most cases, the boundaries of the analysis regions follow borough boundaries, thereby facilitating the creation of regional models that match the study regions and subregions. In one location, the boundary of a study region cuts a borough approximately in half. The choice in creating the models was whether to make Valdez-Cordova borough part of the Interior or Southcentral economic model. Upon review and discussion with the ADF&G staff, it was decided to place Valdez-Cordova in the Southcentral region. This had no effect on the estimation of angler spending for each of the study regions. Rather, it expanded the size of the Southcentral economic model slightly, which resulted in a modest overestimation of the economic contribution of sportfishing in the Southcentral region. Conversely, the economic model for the Interior region was slightly smaller than the actual region with the result that the model modestly underestimated the total economic contribution of sportfishing in that region. The extent to which the models underestimate and overestimate the impacts was examined by creating additional models with Valdez-Cordova borough moved into the Interior region and re-running the models to compare the change in total economic contribution. The results showed that any overestimation or underestimation in the models used for the study was negligible.

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<sup>37</sup> no saltwater model for Interior region was created as little saltwater fishing occurs in the region.

# **RESULTS**

#### ANGLER EFFORT AND ECONOMIC CONTRIBUTIONS

In the sections that follow, the economic contributions of sportfishing in Alaska and its regional economies are presented, along with a detailed accounting of where anglers fished, where they spent their money, what they purchased, and how that spending created jobs and income throughout Alaska and the study regions.

Not all angler spending represents economic activity that would not exist if there was no sportfishing in Alaska. In particular, spending by resident anglers represents dollars that already exist in the state economy. Those anglers could easily spend their recreational fishing dollars on other outdoor pursuits with little net effect of total economic activity in the state. Nonresident anglers, on the other hand, represent a source of new dollars that would not enter the Alaska economy if not for the unique fishing opportunities that attract them to the state. Although the focus of this study is on measuring the total economic activity associated with sportfishing including both resident and nonresident spending, the analyses that follow have disaggregated spending and economic contributions by residency to facilitate the identification of new economic activity represented by nonresidents.

Following a general overview of sportfishing effort and expenditures in Alaska in 2007, detailed results are presented for each of the following geographic areas:

- Statewide;
- Each DSF management region (Southeast, Southcentral and Interior); and,
- Two subregions: Cook Inlet<sup>38</sup> and Southeast marine waters.

Each regional section of the report is organized as follows:

- A summary of fishing effort in the region
- A detailed spending profile by resident/nonresident, guided/unguided, and freshwater/saltwater anglers
- An analysis of the economic contributions provided by angler spending, with detailed breakdowns for all spending, expenditures for equipment and real estate used for fishing, and trip spending including purchases of fishing packages.

<sup>&</sup>lt;sup>38</sup> Includes both fresh and saltwater fishing that occurs within the Cook Inlet subregion

#### **OVERVIEW**

In 2007, 475,534 people were licensed for recreational fishing in Alaska, including residents and nonresidents who purchased a fishing license, and residents who were issued a fishing privilege at no cost (PIDs and DAVs). Approximately 60% of all sport fishing licenses were purchased by nonresidents and 40% were issued to residents of Alaska. Nearly three-quarters of all resident licenses were issued to people who lived in the Southcentral region (Table 10).

Table 10.-Number and percentage of licensed sport anglers in Alaska, by residence, 2007\*.

	# Licensed Anglers*	% of Total
Southeast	22,370	4.7%
Southcentral	134,415	28.3%
Interior	33,859	7.1%
Subtotal of Alaska residents	190,644	40.1%
Nonresidents	284,890	59.9%
Statewide Total	475,534	100.0%

Source: Alaska Department of Fish and Game.

The largest portion of the 2.5 million days of fishing that took place in 2007 occurred in the Southcentral region of the state where anglers fished 1.8 million days, or 70.7% of the total (Table 11). This was followed by the Southeast region with 21.2% of the total days fished and the Interior region with 8.0% of total days.

Table 11.-Estimated number and percentage of angler days of sport fishing in Alaska, by region, 2007\*.

	Total Angler Days	% of Total
Southeast	540,263	21.3%
Southcentral	1,796,805	70.7%
Interior	202,750	8.0%
Statewide Total	2,539,818	100.0%

Source: 2007 Statewide Harvest Survey (SWHS), Alaska Department of Fish and Game.

\*Totals reported here do not exactly match published statewide and regional totals from the 2007 SWHS due to the fact that it is not possible to identify the water type or guided/unguided status of some SWHS survey responses. The totals reported in this table reflect the summary of all days fished within a region that could be assigned to a specific residency, water type, and guided/unguided category. Approximately 4,177 days fished (0.16% of 2.5 million days) could not be assigned to a strata category and thus were not included in these totals.

In 2007, resident anglers accounted for 57.5% of the total angler days of fishing in Alaska, while nonresident anglers accounted for 42.5% of total angler days in the state (Table 12). Two-thirds (66%) of all nonresident fishing effort (in angler days) occurred in the Southcentral region,

<sup>\*</sup>Includes purchased licenses and issued PIDs (Personal Identification cards) and DAVs (Alaska Disabled American Veteran permits).

followed by Southeast Alaska (30%) and then the Interior Region (4%). The distribution of resident fishing effort by region is similar with approximately 74% of resident angler days occurring in the Southcentral region, followed by Southeast (15%) and then Interior region (11%) (Table 12). In Alaska overall, and in the Southcentral and Interior regions, residents accounted for the majority of angler days that were taken. However, in the Southeast region, nonresidents accounted for nearly 60% of the total angler days, while residents accounted for 40% of total angler days.

Table 12.–Estimated number and percent distribution of angler days, by residency\*, by region and subregion, 2007.

	RESIDENT		NONRESIDENT		TOTAL	
	Angler-Days	% of Region	Angler- Days	% of Region	Angler- Days	% of Region
Southeast	219,115	40.6%	321,148	59.4%	540,263	100.0%
Southcentral	1,085,962	60.4%	710,843	39.6%	1,796,805	100.0%
Interior	154,303	76.1%	48,447	23.9%	202,750	100.0%
Statewide Total	1,459,380	57.5%	1,080,438	42.5%	2,539,818	100.0%
Subregions						
Southeast Marine	179,873	41.3%	255,465	58.7%	435,338	100.0%
Cook Inlet	761,221	61.2%	481,877	38.8%	1,243,098	100.0%

Source: 2007 Statewide Harvest Survey, Alaska Department of Fish and Game.

\*Totals reported here do not exactly match published statewide and regional totals from the 2007 SWHS due to the fact that it is not possible to identify the water type or guided/unguided status of some SWHS survey responses. The totals reported in this table reflect the summary of all days fished within a region that could be assigned to a specific residency, water type, and guided/unguided category. Approximately 4,177 days fished (0.16% of 2.5 million days) could not be assigned to a strata category and thus were not included in these totals.

At the statewide level, approximately 58.6% of all fishing days occurred in freshwater and 41.4% occurred in saltwater (Table 13). The distribution of freshwater and saltwater fishing days varied considerably by region due largely to the geography of the state. The Southeast region was dominated by saltwater fishing which accounted for 80.6% of all angler-days fished in that region. Conversely, there is almost no saltwater fishing in the Interior region. The Southcentral region had a more balanced mix of freshwater and saltwater fishing.

Table 13.–Estimated number and percent distribution of angler-days, by water type, region and subregion, 2007\*.

	FRESHWATER		SALTWATER		TOTAL	
	Angler- Days	% of Region	Angler- Days	% of Region	Angler- Days	% of Region
Southeast	104,925	19.4%	435,338	80.6%	540,263	100.0%
Southcentral	1,181,904	65.8%	614,901	34.2%	1,796,805	100.0%
Interior	202,630	99.9%	120	0.1%	202,750	100.0%
Statewide Total	1,489,459	58.6%	1,050,359	41.4%	2,539,818	100.0%
Subregions						
Southeast Marine**			435,338		435,338	
Cook Inlet	994,953	80.0%	248,145	20.0%	1,243,098	100.0%

Source: 2007 Statewide Harvest Survey, Alaska Department of fish and Game.

In every region, more angler-days of fishing were done without the aid of a guide than with one. Overall, less than one-fourth of the angler days statewide were guided. The proportion of angler days that were guided varies by region, however, from a low of 10.3% in the Interior region, to 21.7% in Southcentral, to more than one-third of all angler days in the Southeast region (Table 14). The greatest rate of guided fishing occurred among saltwater anglers in the Southeast region where 37.3% of all angler days occurred with the help of a guide.

Table 14.–Estimated number and percent distribution of angler-days, by guided/nonguided, region and subregion, 2007\*.

	GUIDI	GUIDED		UNGUIDED		TOTAL	
	Angler-Days	% of Region	Angler- Days	% of Region	Angler- Days	% of Region	
Southeast	182,340	33.8%	357,923	66.2%	540,263	100.0%	
Southcentral	389,257	21.7%	1,407,548	78.3%	1,796,805	100.0%	
Interior	20,791	10.3%	181,959	89.7%	202,750	100.0%	
Statewide Total	592,388	23.3%	1,947,430	76.7%	2,539,818	100.0%	
Subregions							
Southeast Marine	162,185	37.3%	273,153	62.7%	435,338	100.0%	
Cook Inlet	232,702	18.7%	1,010,396	81.3%	1,243,098	100.0%	

Source: 2007 Statewide Harvest Survey, Alaska Department of fish and Game.

<sup>\*</sup>Totals reported here do not exactly match published statewide and regional totals from the 2007 SWHS due to the fact that it is not possible to identify the water type or guided/unguided status of some SWHS survey responses. The totals reported in this table reflect the summary of all days fished within a region that could be assigned to a specific residency, water type, and guided/unguided category. Approximately 4,177 days fished (0.16% of 2.5 million days) could not be assigned to a strata category and thus were not included in these totals.

<sup>\*\*</sup>This subregion includes salt water only.

<sup>\*</sup>Totals reported here do not exactly match published statewide and regional totals from the 2007 SWHS due to the fact that it is not possible to identify the water type or guided/unguided status of some SWHS survey responses. The totals reported in this table reflect the summary of all days fished within a region that could be assigned to a specific residency, water type, and guided/unguided category. Approximately 4,177 days fished (0.16% of 2.5 million days) could not be assigned to a strata category and thus were not included in these totals.

In 2007, anglers spent a total of \$1.39 billion in Alaska directly related to sportfishing. This estimate of total sportfishing-related expenditures includes licenses and stamps, trip-related spending, purchases of fishing packages by nonresidents, expenditures for fishing equipment, and the cost of constructing and maintaining cabins and other real estate that are used primarily for fishing. Generally, the regional distribution of spending by anglers follows the pattern of days fished: most spending occurred in the Southcentral region (72%), followed by the Southeast and the Interior regions, which accounted for 20% and 7% of total angler spending respectively (Table 15). Licenses and stamps are purchased from the State of Alaska, therefore that spending is not designated to any specific regions but is included in the overall, statewide total.

Table 15.—Spending by anglers on sportfishing in Alaska, 2007.

	Trip Spending	Package Spending*	Equipment Spending	Real Estate Spending	Total Spending
Southeast	\$112,324,626	\$39,866,503	\$67,477,961	\$53,835,714	\$273,504,804
Southcentral	\$417,913,080	\$90,130,556	\$357,184,990	\$123,329,493	\$988,558,119
Interior	\$36,950,444	\$7,522,641	\$50,415,603	\$5,671,949	\$100,560,637
All Regions	\$567,188,150	\$137,519,700	\$475,078,554	\$182,837,156	\$1,362,623,560**
Licenses & stamps					\$23,164,512
Total Spending					\$1,385,788,072
Subregions					
Southeast Marine	<i>\$94,982,568</i>	\$36,630,880	NA***	NA***	NA***
Cook Inlet	\$280,760,879	\$23,774,541	\$313,662,850	\$114,770,705	\$732,968,975

<sup>\*</sup> Nonresidents only.

Table 16 presents the average trip and package spending per angler-day statewide and for each region and subregion based on where the spending occurred. Statewide, across all anglers (resident and nonresident), an average of \$277.46 was spent per angler-day. Because this spending is averaged across all anglers including those who did not purchase a package, the average expenditure per angler-day appears much lower for the package spending (\$54.15 per angler-day) compared to other non-package fishing trips (\$223.32 per angler-day). Spending per angler-day varies somewhat between regions, with the largest differences related to spending on fishing packages. The average spent on packages in the Southeast region (\$73.79 per angler-day) is nearly double the expenditure in the Interior (\$37.10 per angler-day). These differences are largely attributable to differential participation of resident and nonresident anglers in those regions.

<sup>\*\*</sup> Does not include purchases of license and tags which cannot be assigned to any particular region.

<sup>\*\*\*</sup>Equipment expenditures were not assigned to a particular type of water fished because most equipment is multi-purpose.

Table 16.—Average trip and package spending per angler-day, by region and subregion, 2007.

	Trip Spending per Angler-Day	Package* Spending per Angler-Day	Total Trip and Package Spending per Angler-Day
Southeast	\$207.91	\$73.79	\$281.70
Southcentral	\$232.59	\$50.16	\$282.75
Interior	\$182.25	\$37.10	\$219.35
Statewide	\$223.32	\$54.15	\$277.46
Subregions			
Southeast Marine	\$218.18	\$84.14	\$302.32
Cook Inlet	\$225.86	\$19.13	\$2 <i>44</i> .98

<sup>\*</sup>nonresidents only.

The average spending in each region by residents of Alaska and nonresidents for equipment and real estate is shown in Table 17. These figures represent the amount of spending per angler that took place in each region, regardless of where the anglers fished or where they resided. In other words, the table shows how angler spending on fishing equipment and fishing-related equipment is distributed across the state. The average angler in Alaska, including residents and nonresidents, spent \$1,385.40 on equipment and real estate throughout the state. The largest portion of spending took place in the Southcentral region where anglers spent \$1,012.09, on average, or approximately 73% of their total fishing equipment and real estate spending. The large difference between regions is due to the concentration of retail outlets in the Southcentral region compared to other places in the state. Annually, over 70% of total retail sales in Alaska (not only fishing equipment sales) occurs in the Southcentral region. As a result, it is likely that many Alaska residents who reside outside of the region purchase much of their equipment, especially more expensive items such as boats and vehicles, from businesses in the Southcentral region.

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<sup>&</sup>lt;sup>39</sup> Source: "2002 Economic Census, Retail Trade, Geographic Area series, Alaksa: 2002", US Census Bureau.

Table 17.–Average expenditures by anglers for equipment and real estate, by region and subregion where the spending occurred, 2007.

	Equipment Spending per Angler	Real Estate Spending per Angler	Equipment and Real Estate Spending per Angler
Southeast	\$141.75	\$113.21	\$254.97
Southcentral	\$752.74	\$259.35	\$1,012.09
Interior	\$106.41	\$11.93	\$118.34
Statewide	\$1,000.91	\$384.49	\$1,385.40
Subregions			
Southeast Marine	NA*	NA*	NA*
Cook Inlet	\$655.27	\$241.35	\$896.62

<sup>\*</sup> Equipment expenditures were not assigned to a particular type of water fished because most equipment is multi-use and multi-purpose.

Underscoring the importance of nonresident anglers and their contribution to the Alaska economy, Table 18 shows that nonresidents represent a significant part of the total spending on sportfishing despite comprising only 42.5% of all fishing days. Statewide, nonresidents accounted for 46.7% of all spending; in the Southeast, they accounted for 63.9% of all spending. In the sections that follow, a more detailed analysis will show that nonresidents exhibited a marked difference in their patterns of spending compared to resident anglers.

Table 18.–Total spending on sportfishing by anglers in Alaska, by residency, region, and subregion, 2007\*.

	Resident Expenditures	Nonresident Expenditures	Total Expenditures
Southeast	98,613,993	174,890,811	273,504,804
Southcentral	560,955,071	427,603,048	988,558,119
Interior	67,092,727	33,467,910	100,560,637
Statewide Total	726,661,791	635,961,769	1,362,623,560
Subregions			
Southeast Marine	na	na	131,613,448
Cook Inlet	457,938,464	275,030,511	732,968,975

<sup>\*</sup>does not include purchases of license and tags which cannot be ascribed to any particular region.

<sup>\*\*</sup>equipment expenditures were not assigned to a particular type of water fished because most equipment is multi-purpose.

#### **STATEWIDE**

This section presents the detailed expenditures and economic contributions for sportfishing in Alaska on a statewide basis. All of the spending and economic contribution totals in the following statewide tables include the expenditures made by anglers for Alaska sportfishing licenses and stamps. This expenditure amount is **not** included in the subsequent regional and subregional tables in the sections that follow because sportfishing licenses and stamps are purchased from state government and that spending cannot be assigned to a particular region of the state. Therefore, the sum of the region totals reported in the subsequent sections will not be equal to the statewide totals reported in this section.

## **Angler Days**

Of the 2.5 million total angler days of sportfishing in 2007, nearly 1.5 million days (60%) were reported by Alaska residents (Table 19). Most angler-days (77%) were unguided, but the proportion of guided angler days was somewhat higher for saltwater fishing (33%) than freshwater fishing (17%) and varied by residency. For example, nonresidents (43%) were much more likely than residents (9%) to take guided fishing trips. For nonresident anglers fishing in saltwater, nearly 60% of saltwater angler days were guided, whereas only 13% of resident saltwater days were guided. Similarly, 32% of nonresident freshwater angler days were guided days, whereas only 7% of resident freshwater angler days were guided days (Table 19).

Table 19.—Statewide angler days by residency, water type, and guided/unguided\*, 2007.

	RESID	RESIDENT		NONRESIDENT		IGLERS
	Angler-		Angler-		Angler-	
	Days	%	Days	%	Days	%
Freshwater						
Guided	56,449	6.4%	189,336	31.5%	245,785	16.5%
Unguided	831,152	93.6%	412,522	68.5%	1,243,674	83.5%
Total	887,601	100.0%	601,858	100.0%	1,489,460	100.0%
Saltwater						
Guided	71,564	12.5%	275,039	57.5%	346,603	33.0%
Unguided	500,215	87.5%	203,541	42.5%	703,756	67.0%
Total	571,779	100.0%	478,580	100.0%	1,050,359	100.0%
Total Guided	128,013	8.8%	464,375	43.0%	592,388	23.3%
Total Unguided	1,331,367	91.2%	616,063	57.0%	1,947,430	76.7%
TOTAL	1,459,380	100.0%	1,080,438	100.0%	2,539,818	100.0%

Source: 2007 Statewide Harvest Survey, Alaska Department of Fish and Game.

<sup>\*</sup>Totals reported here do not exactly match published statewide and regional totals from the 2007 SWHS due to the fact that it is not possible to identify the water type or guided/unguided status of some SWHS survey responses. The totals reported in this table reflect the summary of all days fished within a region that could be assigned to a specific residency, water type, and guided/unguided category. Approximately 4,177 days fished (0.16% of 2.5 million days) could not be assigned to a strata category and thus were not included in these totals.

### **Expenditures**

In total, residents and nonresidents spent \$1.39 billion on sportfishing activities, including licenses, trip and package spending, fishing and fishing-related equipment, and real estate construction and maintenance. More than one-third (\$567.2 million) of the total was non-package trip spending. When combined with fishing packages, trip-related spending accounted for one-half (\$704.7 million) of all sportfishing expenditures. Spending on fishing equipment and fishing-related equipment was \$475.1 million, and anglers spent a total of \$182.8 million on maintenance and construction of real estate that was used primarily for sportfishing (Table 20).

Table 20.—Total statewide spending for sportfishing by residency and expenditure category, 2007.

	Resident Anglers		Nonresident Anglers		All Anglers	
Expenditures	Spending	%	Spending	%	Spending	%
Licenses & stamps	\$6,627,558	0.9%	\$16,536,955	2.5%	\$23,164,513	1.7%
Trip	\$219,829,151	30.0%	\$347,358,999	53.2%	\$567,188,150	40.9%
Package	\$0	0.0%	\$137,519,700	21.1%	\$137,519,700	9.9%
Equipment	\$433,693,104	59.1%	\$41,385,450	6.3%	\$475,078,554	34.3%
Real Estate	\$73,139,537	10.0%	\$109,697,619	16.8%	\$182,837,156	13.2%
Total	\$733,289,349	100.0%	\$652,498,723	100.0%	\$1,385,788,072	100.0%

<sup>\*</sup>spending on licenses and fees was provided by ADFG from license sales data and is not estimated from survey responses.

In keeping with their greater level of fishing effort, resident anglers spent more than nonresident anglers in total fishing expenditures. Their patterns of spending, however, vary considerably. Most resident angler spending is associated with purchases of equipment used for fishing (\$433.7 million), followed by trip expenditures (\$219.8 million), real estate (\$73.1 million), and licenses and stamps (\$6.6 million). Most nonresident spending is for trip-related expenditures (\$347.4 million), followed by pre-purchased fishing packages (\$137.5 million), real estate (\$109.7 million), fishing equipment (\$41.4 million) and licenses and stamps (\$16.5 million). It should be noted that all spending refers specifically to purchases that were made in Alaska, therefore it is expected that equipment expenditures by nonresidents is disproportionately lower than for residents since anglers typically purchase most of their fishing tackle and equipment closer to where they live.

Table 21 presents a summary of the average spending statewide by resident and nonresident anglers for the major expenditure categories. Trip and package spending is broken down to average spending per angler for each day of fishing (i.e. angler-day). Due to the durable nature of equipment and its use across many trips, equipment and real estate expenditures are shown as the average spent per angler on an annual basis. Overall, anglers spent an average of \$277.46 per day of fishing for all trip and package related purchases (fuel, groceries, bait, lodging, restaurants, etc.), and \$1,385.40 per year on fishing-related equipment and real estate (rods, reels, boats, motors, clothing, maintenance, etc.).

Table 21.–Statewide average TRIP spending per angler-day, and average annual spending for EQUIPMENT and REAL ESTATE per angler, 2007\*.

	Resident Anglers	Nonresident Anglers	All Anglers
		\$ per angler-day	
Licenses and Fees	\$4.54	\$15.31	\$9.12
Trip Expenditures (non-package)	\$150.63	\$321.50	\$223.32
Package Expenditures	NA**	\$127.28	54.15
Total trip & package spending	\$150.63	\$448.78	\$277.46
	annual \$ per licensed angler		
Equipment Expenditures	\$2,279.55	\$145.27	\$1,000.91
Real Estate Expenditures	\$383.64	\$385.05	\$384.49
Total equipment & real estate spending	\$2,663.20	\$530.32	\$1,385.40

<sup>\*</sup>Estimates of average spending for detailed trip and equipment categories are presented in Appendix L.

The patterns of spending on an average basis are similar to those on a total basis: nonresident anglers spent more per day than residents for trip-related items (\$448.78 compared to \$150.63), while the average resident angler spent more in Alaska each year for equipment than the average nonresident (\$2,279.55 compared to \$145.27). Interestingly, the average resident and nonresident angler spent approximately the same amount on real estate for fishing (approximately \$385.00 per year; Table 21).

Anglers make a wide range of purchases to support their fishing activity including fishing licenses and stamps, trip-related expenditures, fishing tackle and other fishing-related equipment, and expenses related to real estate that they use for fishing. Trip-related expenses refer to spending for temporary or consumable goods and services that anglers make while on a particular fishing trip. These range from food and lodging to travel expenses (e.g., fuel or air taxis), groceries, bait, and derby tickets. The full list of trip-related expenditure items and the amount spent by residents and nonresidents is presented in Table 22.

Some nonresident anglers opt to pre-purchase a packaged fishing expedition from one of the many outfitters, guides and lodges in Alaska. Such packages typically offer a range of services for one price including transportation, guides, food and lodging. The survey of nonresidents asked anglers to report spending for any packages that they may have purchased and to indicate which amenities were included in the package.

Equipment expenditures refer to tackle and other items that are used only for fishing, plus other equipment that might be used in other pursuits in addition to fishing. The details of statewide spending for these items is listed in the bottom half of Table 22. The dollar figures represent total amounts spent in 2007 on fishing equipment and only that portion of multi-use equipment that anglers reported was used specifically for fishing.

<sup>\*\*</sup>Package expenditures refer specifically to purchases of travel packages made by nonresidents prior to departing on their trip to Alaska.

Table 22.-Detailed spending for sportfishing in Alaska by residency, 2007.

	Resident	Nonresident	Total
Licenses and Stamps*	\$6,627,558	\$16,536,955	\$23,164,513
Trip Expenditures			
Fuel	\$69,938,850	\$23,595,989	\$93,534,839
Guide	\$32,276,187	\$83,575,429	\$115,851,616
Air	\$3,279,065	\$51,384,030	\$54,663,094
Travel	\$814,830	\$15,044,035	\$15,858,865
Process	\$9,160,869	\$29,156,498	\$38,317,367
Rentals	\$2,304,852	\$24,664,999	\$26,969,851
Derby	\$2,335,998	\$508,735	\$2,844,733
Dock	\$13,037,221	\$2,396,347	\$15,433,567
Ice	\$3,541,733	\$1,261,152	\$4,802,885
Bait	\$6,543,527	\$2,228,259	\$8,771,786
Groceries	\$35,178,270	\$25,666,857	\$60,845,127
Meals	\$15,435,598	\$26,363,169	\$41,798,767
Lodging	\$18,549,878	\$38,394,579	\$56,944,458
Gifts	\$2,679,940	\$17,323,601	\$20,003,541
Amusements	\$4,622,500	\$5,170,488	\$9,792,988
Other	\$129,832	\$624,833	\$754,665
Sub-Total	\$219,829,151	\$347,358,999	\$567,188,150
Package Expenditures	NA	\$137,519,700	\$137,519,700
Equipment Expenditures			
Rods, reels, & components	\$19,604,973	\$5,538,508	\$25,143,481
Fishing tackle	\$12,989,758	\$6,757,985	\$19,747,744
Tackle boxes	\$1,718,940	\$366,129	\$2,085,070
Depth finders, fish finders, etc.	\$8,845,224	\$84,348	\$8,929,572
Landing nets, dipnets & gillnets	\$3,460,528	\$399,823	\$3,860,351
Misc. fishing equip	\$4,682,403	\$1,968,201	\$6,650,604
Shellfish fishing equip	\$2,429,641	\$241,400	\$2,671,041
Fish mounting (taxidermy)	\$1,454,872	\$816,222	\$2,271,094
Books and magazines	\$1,233,909	\$613,573	\$1,847,481
Items to store/preserve fish	\$7,084,928	\$2,244,231	\$9,329,159
Coolers, fish boxes	\$3,054,823	\$1,642,002	\$4,696,825
Clothing	\$6,383,662	\$3,457,840	\$9,841,502
Boots, shoes, waders	\$5,434,312	\$1,658,504	\$7,092,816
Life jackets, survival suits	\$3,620,424	\$151,791	\$3,772,215
Boats, canoes, other watercraft	\$101,074,361	\$4,096,772	\$105,171,133
Boat motors	\$37,160,536	\$722,980	\$37,883,516
Trailers, hitches, and acc	\$7,759,679	\$234,009	\$7,993,687
Other boat parts and acc	\$14,488,956	\$1,053,382	\$15,542,338
Bear spray, bug spray, etc.	\$1,284,685	\$485,861	\$1,770,546
Firearms	\$5,143,008	\$81,983	\$5,224,991
Cameras, binoculars	\$5,286,567	\$894,724	\$6,181,291
Tents, backpacks, sleeping bags	\$3,423,576	\$247,678	\$3,671,254
Camping trailer	\$31,518,386	\$15,757	\$31,534,144
Other camping equip	\$2,616,313	\$286,758	\$2,903,071
Vehicles (trucks,SUVs, etc.)	\$84,317,439	\$3,999,749	\$88,317,188
Airplanes and related equipment	\$4,118,284	\$1,469,050	\$5,587,334
ATVs, snowmachines	\$26,397,301	\$0	\$26,397,301
Boat/camper registrations	\$4,480,408	\$259,799	\$4,740,207
Vehicle, boat or airplane repair	\$22,400,506	\$1,587,726	\$23,988,232
Other	\$224,699 \$433,603,404	\$8,666	\$233,366
Sub-Total	\$433,693,104	\$41,385,450	\$475,078,554
Real Estate Expenditures	<b>.</b>		
Real estate repairs	\$19,896,212	\$30,482,285	\$50,378,496
Real estate construction	\$53,243,325	\$79,215,335	\$132,458,660
Sub-Total	\$73,139,537	\$109,697,619	\$182,837,156
TOTAL SPENDING	\$733,289,349	\$652,498,723	\$1,385,788,072

<sup>\*</sup>License and stamp spending is based on actual revenues reported by ADF&G.

The real estate spending in Table 22 shows the annual costs of construction and maintenance that anglers reported was associated with real estate that is used primarily for sportfishing purposes. These numbers do not include any spending that anglers may have made to purchase or lease real estate used for sportfishing. An effort was made in the survey to capture lease/purchase spending for real estate, but the information that was collected was deemed too unreliable to provide an accurate estimation of that spending and is not included here.

Table 22 presents the detailed breakdown of total spending in all categories by resident and nonresident anglers. While nonresidents spent more in total on trip related purchases than residents, it is not surprising that residents spent considerably more than nonresidents on fuel, bait, and dock/mooring fees, and groceries because those expenditures are incurred with every outing, including one-day trips that are more typical of resident anglers. Nonresidents spent considerably more than residents on those items associated with travel – guide fees, airfare and other travel, rentals, restaurant meals, lodging, and gifts/souvenirs. Since most people purchase equipment closer to where they live, and vacationers typically do not buy a significant amount of equipment while traveling, it is not surprising that residents greatly outspent nonresidents in every equipment category except for the miscellaneous "other" category.

Further breakdowns of trip and package spending are presented in Table 23 which shows total spending by resident/nonresidents, guided/unguided, and by type of water fished. In this breakdown, the greatest amount of trip spending came from nonresident anglers on guided trips fishing in salt water (\$143.4 million). Those anglers also spent the most on packages (\$61.2 million). Nonresidents fishing in saltwater on guided trips accounted for 25.3% of all trip spending in the state and 44.5% of all package spending.

The multi-purpose nature of many equipment items precludes a similarly detailed breakdown of equipment or real estate spending in this report. Additional detailed estimates of total and average spending by each expenditure category are presented in Appendices I and J.

Table 23.-Detailed TRIP and PACKAGE by residency, use of guides, and type of water fished, 2007.

	RESI	DENT	NONRES	ALL	
	Guided	Unguided	Guided	Unguided	ANGLERS
FRESHWATER ANGLERS			Total spending		
Trip Expenditures	_				
Fuel and oil	\$3,129,212	\$29,480,098	\$4,922,338	\$6,757,367	\$44,289,016
Guide and charter fees	\$12,698,961	\$1,557,368	\$29,714,463	\$4,226,079	\$48,196,871
Airfare to and from Alaska	\$1,212,832	\$690,530	\$11,711,734	\$14,739,967	\$28,355,063
Travel within Alaska	\$324,786	\$217,378	\$3,049,525	\$7,231,895	\$10,823,584
Fish processing & shipping	\$319,038	\$2,809,876	\$5,848,647	\$5,389,684	\$14,367,246
Rentals (boats, equipment, etc.)	\$0	\$1,328,506	\$6,981,005	\$8,203,300	\$16,512,811
Derby tickets	\$27,953	\$370,618	\$59,905	\$74,948	\$533,425
Boat launch and dock fees	\$23,853	\$3,563,964	\$42,877	\$1,051,369	\$4,682,063
Ice	\$104,523	\$1,763,285	\$211,662	\$644,359	\$2,723,828
Bait (natural bait only) Groceries bought in stores	\$23,241	\$1,806,026	\$212,766	\$687,435	\$2,729,467
Restaurants, bars, and take-out	\$2,182,531	\$18,117,450 \$6,245,116	\$5,500,681 \$6,770,816	\$9,249,282 \$6,846,464	\$35,049,944
Overnight accommodations	\$2,290,294 \$5,409,901	\$6,345,116 \$6,146,449	\$6,770,816 \$11,932,076	\$6,846,164 \$6,337,160	\$22,252,390 \$20,825,587
Souvenirs and gifts	\$368,755		\$3,975,140	\$6,337,160 \$4,362,994	\$29,825,587 \$0,569,170
Other entertainment		\$861,281 \$1,134,581	\$1,769,103	\$1,378,450	\$9,568,170 \$4,020,245
Other	\$648,081 \$0	\$1,134,361 \$46,262	\$222,219	\$1,376,450 \$10,913	\$4,930,215 \$279,394
Sub-Total	\$28,763,962	\$76,238,790	\$92,924,958	\$77,191,364	\$275,119,074
Sub-Total	\$20,763,962	\$10,230,190	<b>\$92,924,936</b>	\$11,191,304	\$275,119,074
Package Expenditures	NA*	NA*	\$56,729,482	\$10,773,868	\$67,503,350
SALTWATER ANGLERS					
Trip Expenditures	=				
Fuel and oil	\$3,239,308	\$34,090,231	\$5,974,861	\$5,941,422	\$49,245,823
Guide and charter fees	\$17,227,322	\$792,536	\$49,053,787	\$581,100	\$67,654,745
Airfare to and from Alaska	\$1,345,773	\$29,930	\$18,399,826	\$6,532,503	\$26,308,032
Travel within Alaska	\$21,360	\$251,305	\$3,913,595	\$849,020	\$5,035,281
Fish processing & shipping	\$2,149,516	\$3,882,439	\$15,672,242	\$2,245,924	\$23,950,121
Rentals (boats, equipment, etc.)	\$162,890	\$813,456	\$7,759,656	\$1,721,038	\$10,457,040
Derby tickets	\$186,016	\$1,751,410	\$303,526	\$70,356	\$2,311,309
Boat launch and dock fees	\$72,770	\$9,376,634	\$67,450	\$1,234,650	\$10,751,504
Ice	\$210,336	\$1,463,590	\$237,719	\$167,412	\$2,079,056
Bait (natural bait only)	\$89,786	\$4,624,475	\$235,867	\$1,092,192	\$6,042,319
Groceries bought in stores	\$2,333,083	\$12,545,206	\$6,453,108	\$4,463,785	\$25,795,183
Restaurants, bars, and take-out	\$2,355,830	\$4,444,358	\$9,713,051	\$3,033,138	\$19,546,377
Overnight accommodations	\$2,934,412	\$4,059,116	\$16,476,630	\$3,648,713	\$27,118,871
Souvenirs and gifts	\$676,856	\$773,048	\$7,305,937	\$1,679,530	\$10,435,371
Other entertainment	\$374,483	\$2,465,355	\$1,491,367	\$531,569	\$4,862,773
Other	\$6,847	\$76,723	\$383,517	\$8,184	\$475,271
Sub-Total	\$33,386,587	\$81,439,812	\$143,442,141	\$33,800,535	\$292,069,076
Package Expenditures	NA*	NA*	\$61,194,895	\$8,821,455	\$70,016,350
ALL ANGLERS			<del>*************************************</del>	<b>4</b> 0,021,100	<b>4.0,0.0,000</b>
Trip Expenditures	_				
Fuel and oil	\$6,368,520	\$63,570,330	\$10,897,199	\$12,698,790	\$93,534,839
Guide and charter fees	\$29,926,283	\$2,349,904	\$78,768,250	\$4,807,179	\$115,851,616
Airfare to and from Alaska	\$2,558,605	\$720,460	\$30,111,560	\$21,272,469	\$54,663,094
Travel within Alaska	\$346,147	\$468,683	\$6,963,120	\$8,080,915	\$15,858,865
Fish processing & shipping	\$2,468,554	\$6,692,315	\$21,520,890	\$7,635,608	\$38,317,367
Rentals (boats, equipment, etc.)	\$162,890	\$2,141,962	\$14,740,661	\$9,924,338	\$26,969,851
Derby tickets	\$213,969	\$2,122,028	\$363,431	\$145,304	\$2,844,733
Boat launch and dock fees	\$96,623	\$12,940,597	\$110,327	\$2,286,019	\$15,433,567
Ice	\$314,859	\$3,226,874	\$449,381	\$811,770	\$4,802,885
Bait (natural bait only)	\$113,027	\$6,430,500	\$448,633	\$1,779,626	\$8,771,786
Groceries bought in stores	\$4,515,614	\$30,662,656	\$11,953,789	\$13,713,067	\$60,845,127
Restaurants, bars, and take-out	\$4,646,124	\$10,789,474	\$16,483,868	\$9,879,302	\$41,798,767
Overnight accommodations	\$8,344,313	\$10,205,565	\$28,408,706	\$9,985,873	\$56,944,458
Souvenirs and gifts	\$1,045,611	\$1,634,329	\$11,281,077	\$6,042,524	\$20,003,541
Other entertainment	\$1,022,564	\$3,599,936	\$3,260,470	\$1,910,019	\$9,792,988
Other	\$6,847	\$122,985	\$605,736	\$19,097	\$754,665
Sub-Total	\$62,150,549	\$157,678,602	\$236,367,099	\$110,991,900	\$567,188,150
Package Expenditures	NA*	NA*	\$117,924,377	\$19,595,323	\$137,519,700

<sup>\*</sup>Package expenditures refer specifically to travel packages purchased by nonresidents prior to departing on their trip to Alaska.

#### **Economic Contributions**

Expenditures by anglers generate additional economic benefits throughout the Alaska economy. Multiplier effects have been estimated separately for trip spending and package spending, and for equipment and real estate spending combined. All economic contributions have been estimated separately for residents and nonresidents. The direct effects that are shown in the following tables reflect the economic activity associated with angler spending captured within the Alaska economy (i.e., consumer retail spending less the value of goods imported from outside of the regional economy). For that reason, the direct output values in the tables that follow are likely to be less than the reported angler spending for any specific category.

The \$1.39 billion of spending by anglers in Alaska in 2007 generated \$354.1 million of income to 11,080 full and part time employees and proprietors who worked in the Alaska businesses whose products were purchased by anglers. Spending by nonresidents accounted for 6,549 of the jobs and \$208.0 million of income (Table 24). In addition to the economic activity directly attributable to spending by anglers are the multiplier effects (indirect and induced effects) of that consumer spending. The indirect effect results from the increased economic activity among businesses that supply those businesses selling directly to the anglers. For example, the guide that sells directly to anglers, in turn, stimulates additional activity among the businesses that supply the guide's operations. The induced effect is the economic activity produced by household spending of income earned by workers in those businesses that are impacted by both the direct and indirect effects. Including both direct and multiplier effects, the \$1.39 billion of spending by anglers produced \$545.3 million of income and supported 15,879 full and part-time jobs (Table 24).

Table 24.—Statewide economic contributions of ALL spending for sportfishing, by residency, 2007.

	Resident	Nonresident	All
	Anglers	Anglers	Anglers
Direct effects			
Output	\$417,795,502	\$574,317,174	\$992,112,676
Income	\$146,134,921	\$208,000,960	\$354,135,881
Employment (jobs)	4,531	6,549	11,080
Multiplier effects			
Output	\$250,934,327	\$364,546,682	\$615,481,009
Income	\$77,239,016	\$113,881,191	\$191,120,207
Employment (jobs)	1,911	2,888	4,799
Total effects			
Output	\$668,729,829	\$938,863,856	\$1,607,593,685
Income	\$223,373,937	\$321,882,151	\$545,256,088
Employment (jobs)	6,442	9,437	15,879

The relationship between the direct effect (i.e. directly attributable to the spending by anglers) and the total economic activity that it creates is commonly presented in the form of a multiplier. In the case of Alaska sportfishing, the output multiplier of 1.62 (total effect divided by direct effect) means every dollar of activity stimulated by angler spending creates an additional \$0.62 of economic activity elsewhere in the economy. In similar fashion, the income and employment multipliers are 1.54 and 1.43, respectively. This means that for every dollar of income paid to workers in businesses that sell directly to anglers and for every job in a business that sells directly to anglers there is an additional \$0.54 of income and 0.43 additional jobs in other businesses throughout the economy that are supported by angler spending. A study of Alaska sportfishing in 1993 estimated the output, income and employment multipliers to be 1.18, 1.47 and 1.39, respectively<sup>40</sup>. The income and employment multipliers estimated in the two studies are nearly the same. The output multiplier in the 1993 study is considerably lower because that study related total output (including total angler spending plus indirect and induced effects) to total angler spending, while this study appropriately calculates the multiplier as the ratio of total output (including direct, indirect and induced effects of angler spending) to the total direct effect of angler spending. Because some angler spending leaks immediately out of Alaska through imports and has no economic effect, total angler spending is a larger number than its estimated direct effect and the calculation of the multiplier in the 1993 study resulted in a smaller estimated multiplier.

Employment effects are of particular importance to the state and local economy. The jobs supported by angler expenditures are shown in Table 25 categorized by the industry in which the jobs occur. The jobs directly supported by angler spending largely reflect the types of expenditures made by anglers – trip expenditures for food, bait, lodging and guide services, maintenance of real estate used for sportfishing, and retail purchases of fishing and related equipment. Sector 11 in the following table includes farming and commercial fishing and hunting and is directly affected primarily through anglers' purchases of groceries and bait. The broader distribution of jobs indirectly supported by angler spending through the multiplier effect is the result of inter-industry trade flows and the expenditures of household income that comes from angler-supported jobs.

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<sup>&</sup>lt;sup>40</sup> Haley, S.; Berman, M.; Goldsmith, S.; Hill, A., and Kim, H. 1999. *Economics of Sport Fishing in Alaska*. (Institute of Social and Economic Research, University of Alaska Anchorage). Prepared for the Alaska Dept. of Fish and Game. (copy available from UAA: <a href="http://www.iser.uaa.alaska.edu/ResourceStudies/sportfishing.htm">http://www.iser.uaa.alaska.edu/ResourceStudies/sportfishing.htm</a>).

Table 25.–Employment (jobs) directly and indirectly supported by angler expenditures statewide, by industry in which the employment occurs, 2007.

NAICS Industry Categories	Direct Effects	Multiplier Effects	Total Effects		
	Total full and part time jobs				
11 Agriculture, foresty, fishing & hunting	205	107	312		
21 Mining	3	71	74		
22 Utilities	-	43	43		
23 Construction	1,035	54	1,088		
31-33 Manufacturing	163	150	312		
42 Wholesale trade	407	146	554		
48-49 Transportation & warehousing	395	301	696		
44-45 Retail trade	2,650	704	3,353		
51 Information	-	105	105		
52 Finance & insurance	-	161	161		
53 Real estate & rental	334	405	738		
54 Professional- scientific & technical services	-	342	342		
55 Management of companies	-	40	40		
56 Administrative & waste services	5	292	297		
61 Educational services	-	65	65		
62 Health & social services	-	565	565		
71 Arts, entertainment & recreation (e.g., guides)	3,187	174	3,362		
72 Accommodation & food services	2,054	472	2,526		
81 Other services	259	351	610		
92 Government and public administration	384	252	636		
Total Employment Impact	11,080	4,799	15,879		

Table 26 presents a breakdown by residency of the economic contributions that derive from anglers' spending on equipment and real estate maintenance and construction (a subtotal of all spending). Including the direct and multiplier effects, the \$475.1 million spent on equipment and \$182.8 million spent on real estate maintenance and construction related to sport fishing (Table 22) in Alaska in 2007 supported 4,483 jobs and provided \$182.7 million of income. Because resident angler spending on fishing equipment and fishing-related equipment constitutes the bulk of equipment spending in 2007, the majority of the economic contributions from equipment and real estate spending in 2007 (3,048 jobs and \$111.8 million of income) are produced by residents.

Table 26.–Statewide economic contributions of expenditures for sportfishing EQUIPMENT and REAL ESTATE in Alaska, by residency, 2007.

	Resident	Nonresident	All
	Anglers	Anglers	Anglers
Direct effects			
Output	\$198,614,132	\$125,113,775	\$323,727,907
Income	\$77,140,685	\$47,802,456	\$124,943,141
Employment	2,132	831	2,963
Multiplier effects			
Output	\$109,240,870	\$71,253,555	\$180,494,425
Income	\$34,618,938	\$23,151,352	\$57,770,290
Employment	916	604	1,520
Total effects			
Output	\$307,855,002	\$196,367,330	\$504,222,332
Income	\$111,759,623	\$70,953,808	\$182,713,431
Employment	3,048	1,435	4,483

Table 27 shows the economic contributions from spending on trips and packages, broken down by residency, use of guides, and type of water fished. The largest economic contributions come from nonresident anglers fishing in salt water with the services of a guide. Including the direct and multiplier effects, their spending supported 3,479 jobs that provided \$102.6 million of income. That represents 21.9% and 18.8% of all jobs and income supported by sportfishing anglers in Alaska, respectively.

Additional detailed estimates of the industry impacts in Alaska due to angler spending are presented in Appendices K and L.

Table 27.—Statewide economic contributions of combined TRIP-RELATED and PACKAGE spending for sportfishing, by residency, use of guides, and type of water.

	RESIDENT		NONRE	SIDENT	T01	TAL*	
	Guided	Unguided	Guided	Unguided	RESIDENT	NON RESIDENT	ALL ANGLERS
FRESHWATER ANGL		J. J.		J	-	-	
Direct effects							
Output	\$27,980,438	\$77,087,031	\$138,721,920	\$81,322,374	\$105,067,469	\$220,044,294	\$325,111,763
Income	\$8,801,815	\$24,603,743	\$48,086,210	\$32,165,880	\$33,405,558	\$80,252,090	\$113,657,648
Employment	377	732	1,842	914	1,108	2,756	3,865
Multiplier effects							
Output	\$18,583,846	\$49,466,965	\$93,500,027	\$54,471,236	\$68,050,811	\$147,971,263	\$216,022,074
Income	\$5,968,112	\$14,570,551	\$29,608,769	\$16,394,653	\$20,538,663	\$46,003,422	\$66,542,085
Employment	144	336	737	412	480	1,150	1,630
Total effects							
Output	\$46,564,284	\$126,553,996	\$232,221,947	\$135,793,610	\$173,118,280	\$368,015,557	\$541,133,837
Income	\$14,769,927	\$39,174,294	\$77,694,979	\$48,560,533	\$53,944,221	\$126,255,512	\$180,199,733
Employment	521	1,068	2,580	1,327	1,589	3,906	5,495
SALTWATER ANGLE	:RS						
Direct effects							
Output	\$32,500,598	\$81,613,303	\$190,285,190	\$38,873,915	\$114,113,901	\$229,159,105	\$343,273,006
Income	\$10,326,686	\$25,261,992	\$65,459,376	\$14,487,038	\$35,588,678	\$79,946,414	\$115,535,092
Employment	449	841	2,530	432	1,290	2,962	4,252
Multiplier effects							
Output	\$19,798,317	\$53,844,329	\$119,728,141	\$25,593,723	\$73,642,646	\$145,321,864	\$218,964,510
Income	\$6,238,034	\$15,843,381	\$37,190,018	\$7,536,399	\$22,081,415	\$44,726,417	\$66,807,832
Employment	155	360	948	186	515	1,135	1,649
Total effects							
Output	\$52,298,915	\$135,457,632	\$310,013,331	\$64,467,638	\$187,756,547	\$374,480,969	\$562,237,516
Income	\$16,564,720	\$41,105,373	\$102,649,394	\$22,023,437	\$57,670,093	\$124,672,831	\$182,342,924
Employment	604	1,200	3,479	618	1,805	4,097	5,901
ALL ANGLERS							
Direct effects							
Output	\$60,481,036	\$158,700,334	\$329,007,110	\$120,196,289	\$219,181,370	\$449,203,399	\$668,384,769
Income	\$19,128,501	\$49,865,735	\$113,545,586	\$46,652,918	\$68,994,236	\$160,198,504	\$229,192,740
Employment	826	1,572	4,372	1,346	2,399	5,718	8,117
Multiplier effects							
Output	\$38,382,163	\$103,311,294	\$213,228,168	\$80,064,959	\$141,693,457	\$293,293,127	\$434,986,584
Income	\$12,206,146	\$30,413,932	\$66,798,787	\$23,931,052	\$42,620,078	\$90,729,839	\$133,349,917
Employment	299	696	1,686	599	995	2,284	3,279
Total effects							
Output	\$98,863,199	\$262,011,628	\$542,235,278	\$200,261,248	\$360,874,827	\$742,496,526	\$1,103,371,353
Income	\$31,334,647	\$80,279,667	\$180,344,373	\$70,583,970	\$111,614,314	\$250,928,343	\$362,542,657
Employment	1,125	2,268	6,058	1,945	3,393	8,003	11,396

<sup>\*</sup> Total guided and unguided trip related and package spending.

In addition to the direct state revenue from sportfishing license and stamp sales, the economic activity directly and indirectly generated by sportfishing also produces tax revenues for local, state and federal governments. The IMPLAN model produces generalized estimates of tax revenues that are based on existing statewide ratios of output, income and employment to all tax revenues. It is estimated that sportfishing in 2007 provided \$123.1 million and \$123.2 million of state/local and federal tax revenues, respectively (Table 28). More than one-half of the tax revenues (56.4%) were the result of spending by nonresident anglers.

Table 28.—Tax revenues generated statewide from the economic contributions of sportfishing, 2007.

	State and Local Tax Revenues	Federal Tax Revenues	Total tax Revenues
RESIDENT ANGLERS			
Trip Expenditures (non-package)	\$30,284,825	\$26,527,639	\$56,812,464
Package Expenditures	NA*	NA*	NA*
Equipment & Real Estate Expenditures	\$26,224,749	\$24,396,320	\$50,621,069
Subtotal	\$56,509,573	\$50,923,959	\$107,433,533
NONRESIDENT ANGLERS			
Trip Expenditures (non-package)	\$41,238,975	\$42,456,857	\$83,695,831
Package Expenditures	\$15,672,762	\$15,080,606	\$30,753,368
Equipment & Real Estate Expenditures	\$9,721,095	\$14,711,407	\$24,432,502
Subtotal	\$66,632,831	\$72,248,870	\$138,881,701
ALL ANGLERS			
Trip Expenditures (non-package)	\$71,523,799	\$68,984,495	\$140,508,295
Package Expenditures	\$15,672,762	\$15,080,606	\$30,753,368
Equipment & Real Estate Expenditures	\$37,688,079	\$40,316,522	\$78,004,601
Total	\$123,142,404	\$123,172,709	\$246,315,114

<sup>\*\*</sup>Package expenditures refer specifically to purchases of travel packages made by nonresidents prior to departing on their trip to Alaska.

### **SOUTHEAST REGION**

This section presents the detailed expenditures and economic contributions for sportfishing in the Southeast Region. The spending and contribution totals in the following Southeast Region tables do <u>not</u> include the cost of fishing licenses and stamps because licenses and stamps are purchased from state government and the angler expenditure cannot be assigned to a particular region. However, it is included in the statewide analysis above (Table 20).

# **Angler Days**

Of the total 540,263 days of sportfishing in Southeast Alaska in 2007, more than one-half (321,148) were reported by Alaska residents. Overall, most sportfishing is unguided although nonresidents (51%) are much more likely than residents (8%) to take guided fishing trips. Both resident and nonresident anglers in the Southeast Region are more likely to fish saltwater than freshwater (Table 29).

Table 29.—Southeast Region angler days, by residency, water type, and guided/unguided\*, 2007.

	RESIDENT		NONRESID	ENT	ALL ANGL	ERS
	Angler-		Angler-		Angler-	
	Days	%	Days	%	Days	%
Freshwater						
Guided	2,303	5.9%	17,852	27.2%	20,155	19.2%
Unguided	36,939	94.1%	47,831	72.8%	84,770	80.8%
Total	39,242	100.0%	65,683	100.0%	104,925	100.0%
Saltwater						
Guided	14,853	8.3%	147,332	57.7%	162,185	37.3%
Unguided	165,020	91.7%	108,133	42.3%	273,153	62.7%
Total	179,873	100.0%	255,465	100.0%	435,338	100.0%
Total Guided	17,156	7.8%	165,184	51.4%	182,340	33.8%
Total Unguided	201,959	92.2%	155,964	48.6%	357,923	66.2%
TOTAL	219,115	100.0%	321,148	100.0%	540,263	100.0%

Source: 2007 Statewide Harvest Survey, Alaska Department of Fish and Game.

<sup>\*</sup>Totals reported here do not exactly match published statewide and regional totals from the 2007 SWHS due to the fact that it is not possible to identify the water type or guided/unguided status of some SWHS survey responses. The totals reported in this table reflect the summary of all days fished within a region that could be assigned to a specific residency, water type, and guided/unguided category. Approximately 4,177 days fished (0.16% of 2.5 million days) could not be assigned to a strata category and thus were not included in these totals.

### **Expenditures**

Where anglers spend their money is not necessarily tied to where they fish or where they live. In actuality, an angler on a one-day or multi-day fishing trip might start from their home, purchase fuel, food, or other supplies on the way to their destination, and then make additional purchases such as bait, ice, or guide services, closer to where they fish. The following expenditure tables take this into account by reporting total expenditures in the Southeast region made by all Alaska resident anglers, regardless of where they fished or the region where they live, and by all nonresident anglers who live outside of Alaska regardless of where they fished. In total, resident and nonresident anglers spent \$273.5 million in the Southeast region on trip and package spending, fishing and fishing-related equipment, and real estate construction and maintenance. Forty-one percent (\$112.3 million) of the total is non-package trip spending. When combined with fishing packages, all trip-related spending accounts for 55.7% (\$152.2 million) of all sportfishing expenditures in the region. Spending on fishing and fishing-related equipment (\$67.5 million) represents one-quarter of all spending, while spending for maintenance and construction of real estate that is used primarily for sportfishing represents approximately 19.7% of the total (Table 30).

Table 30.—Southeast Region spending for sportfishing, by expenditure category and residency, 2007.

	Resident Anglers		Nonresident Anglers		All Anglers	
Expenditures	Spending	%	Spending	%	Spending	%
Trip	\$22,467,571	22.8%	\$89,857,056	51.4%	\$112,324,626	41.1%
Package	\$0	0.0%	\$39,866,502	22.8%	\$39,866,502	14.6%
Equipment	\$56,606,233	57.4%	\$10,871,728	6.2%	\$67,477,961	24.7%
Real Estate	\$19,540,190	19.8%	\$34,295,525	19.6%	\$53,835,714	19.7%
Total	\$98,613,993	100.0%	\$174,890,811	100.0%	\$273,504,804	100.0%

<sup>\*</sup>Package expenditures refer specifically to travel packages purchased by nonresidents prior to departing on their trip to Alaska.

Unlike the overall spending in the state, more spending in the Southeast region comes from nonresidents (\$174.9 million) than residents (\$98.6 million). Most resident spending is associated with purchases of equipment used for fishing (\$56.6 million), followed by trip expenditures (\$22.5 million), and real estate (\$19.5 million). The largest amount of spending by nonresidents is for trip-related spending (\$89.9 million) followed by pre-purchased packages (\$39.9 million). Nonresident anglers spent \$34.3 million on real estate and \$10.9 million on fishing equipment (Table 30). It should be noted that all spending refers specifically to purchases that were made in the Southeast region, therefore it is not surprising that equipment expenditures by nonresidents are disproportionately lower than for residents since anglers typically purchase most of their fishing tackle and equipment closer to where they live.

Table 31 presents a summary of the average spending that took place in the Southeast region for the major expenditure categories. Trip and package spending is based on total spending in the region and is averaged across all days of fishing that took place in the region, regardless of where individual resident anglers lived or fished. Due to the durable nature of equipment and its use across many trips, equipment and real estate expenditures are shown as the average spent in the region across all resident and nonresident anglers in Alaska on an annual basis. Overall, anglers fishing in Alaska spent an average of \$281.70 in the Southeast region per day of fishing for all trip and package related purchases (fuel, groceries, bait, lodging, restaurants, etc.) regardless of where they fished. The average angler spent \$254.97 per year in the Southeast region on fishing and related equipment and real estate (rods, reels, boats, motors, clothing, maintenance, etc., Table 31).

Table 31.–Average expenditures in the Southeast region made by Alaska resident and nonresident anglers, 2007\*.

	Resident Anglers	Nonresident Anglers	All Anglers		
		\$ per angler-day			
Trip Expenditures	\$102.54	\$279.80	\$207.91		
Package Expenditures	NA**	\$124.14	\$73.79		
Total trip spending	\$102.54	\$403.94	\$281.70		
	annual \$ per licensed angler				
Equipment Expenditures	\$296.61	\$38.13	\$141.75		
Real Estate Expenditures	\$102.50	\$120.38	\$113.21		
Total equipment & real estate spending	\$399.11	\$158.51	\$254.97		

<sup>\*</sup>Estimates of average spending for detailed trip and equipment categories are presented in Appendix L.

As with total spending, nonresidents, on average, spent more per day on trip-related purchases in the Southeast region than Alaska residents, (\$403.94 compared to \$102.54). Conversely, the average Alaska resident angler spent more in the Southeast for equipment than the average nonresident (\$296.61 compared to \$38.13). The average resident and nonresident angler spent approximately the same amount in the region on real estate used for fishing (approximately \$100 to \$120 per year).

Anglers make a wide range of purchases to support their fishing activity including trip-related expenditures, fishing tackle and other fishing-related equipment, and expenses related to real estate that they use for fishing. Trip-related expenses refer to spending for temporary or consumable goods and services that anglers make while on a particular fishing trip. These range from food and lodging to travel expenses (e.g., fuel, air taxis, etc,), groceries, bait, and derby tickets. The full list of trip items and the amount spent by resident and nonresidents in Southeast Alaska is presented in Table 32.

Some nonresident anglers opt to pre-purchase a packaged fishing expedition from one of the many outfitters, guides and lodges in Alaska. Such packages typically offer a range of services for one price including transportation, guides, food and lodging. The survey of nonresidents asked anglers to report spending for any packages that they may have purchased and to indicate which amenities were included in the package.

Equipment expenditures refer to a list of tackle and other items that are used only for fishing, plus other equipment that might be used in other pursuits in addition to fishing. The details of

<sup>\*\*</sup>Package expenditures refer specifically to purchases of travel packages made by nonresidents prior to departing on their trip to Alaska.

total spending for these items in the Southeast region is listed in the bottom half of Table 32. The dollar figures represent total amounts spent in 2007 on fishing equipment and only that portion of multi-use equipment that anglers reported was used specifically for fishing.

Table 32.—Detailed spending for sportfishing in Southeast Alaska, by residency, 2007.

	Resident	Nonresident	Total
Trip Expenditures			
Fuel	\$7,947,106	\$6,390,155	\$14,337,262
Guide	\$2,116,465	\$24,814,632	\$26,931,097
Air	\$0	\$17,160,414	\$17,160,414
Travel	\$58,390	\$3,907,885	\$3,966,275
Process	\$1,865,731	\$6,837,990	\$8,703,721
Rentals	\$125,956	\$2,269,645	\$2,395,601
Derby	\$815,848	\$89,229	\$905,077
Dock	\$4,166,501	\$759,127	\$4,925,627
Ice	\$233,917	\$123,965	\$357,882
Bait	\$1,601,827	\$739,505	\$2,341,333
Groceries	\$3,031,000	\$5,695,799	\$8,726,800
Meals	\$261,832	\$5,647,443	\$5,909,275
Lodging	\$104,796	\$9,454,174	\$9,558,970
Gifts	\$44,489	\$4,701,743	\$4,746,231
Amusements	\$93,712	\$1,057,630	\$1,151,342
Other	\$0	\$207,720	\$207,720
Sub-Total	\$22,467,571	\$89,857,056	\$112,324,626
Package Expenditures	NA*	\$39,866,502	\$39,866,502
		, , ,	, ,
Equipment Expenditures Rods, reels, & components	\$2,474,141	\$1,092,737	\$3,566,878
Fishing tackle	\$2,105,712	\$1,591,577	\$3,697,289
Tackle boxes	\$165,490	\$59,418	\$224,907
Depth finders, fish finders, etc.	\$1,712,509	\$39,415	\$1,751,924
Landing nets, dipnets & gillnets	\$432,132	\$144,573	\$576,705
Misc. fishing equip	\$924,324	\$679,980	\$1,604,304
Shellfish fishing equip	\$786,118	\$101,634	\$887,752
Fish mounting (taxidermy)	\$0	\$425,444	\$425,444
Books and magazines	\$124,512	\$165,290	\$289,802
Items to store/preserve fish	\$944,379	\$232,835	\$1,177,214
Coolers, fish boxes	\$442,770	\$253,360	\$696,130
Clothing	\$812,730	\$1,447,241	\$2,259,971
Boots, shoes, waders	\$752,157	\$266,267	\$1,018,424
Life jackets, survival suits	\$634,385	\$56,057	\$690,442
Boats, canoes, other watercraft	\$12,356,617	\$1,943,148	\$14,299,765
Boat motors	\$9,369,522	\$15,766	\$9,385,288
Trailers, hitches, and acc	\$2,780,594	\$35,473	\$2,816,067
Other boat parts and acc	\$2,669,856	\$527,557	\$3,197,413
Bear spray, bug spray, etc	\$195,089	\$71,697	\$266,786
Firearms	\$436,087	\$0	\$436,087
Cameras, binoculars	\$618,768	\$196,333	\$815,101
Tents, backpacks, sleeping bags	\$232,173	\$11,800	\$243,973
Camping trailer	\$0	\$0	\$0
Other camping equip	\$366,935	\$48,014	\$414,949
Vehicles (trucks,SUVs, etc)	\$7,055,405	\$53,797	\$7,109,202
Airplanes and related equipment	\$946,030	\$358,214	\$1,304,243
ATVs, snowmachines	\$1,307,325	\$0	\$1,307,325
Boat/camper registrations	\$948,429	\$10,201	\$958,630
Vehicle, boat or airplane repair	\$4,999,739	\$1,043,900	\$6,043,640
Other	\$12,305	\$0	\$12,305
Sub-Total	\$56,606,233	\$10,871,728	\$67,477,961
Real Estate Expenditures			
Real estate repairs	\$6,037,607	\$20,823,127	\$26,860,734
Real estate construction	\$13,502,583	\$13,472,398	\$26,974,980
Sub-Total	\$19,540,190	\$34,295,525	\$53,835,714
TOTAL SPENDING	\$98,613,993	\$174,890,811	\$273,504,804

<sup>\*</sup>Package expenditures refer specifically to purchases of travel packages made by nonresidents prior to departing on their trip to Alaska.

The real estate spending in Table 32 is the annual costs of construction and maintenance that anglers reported was associated with real estate that is used primarily for sportfishing purposes. These numbers do not include any spending that anglers may have made to purchase or lease real estate used for sportfishing. An effort was made in the survey to capture lease/purchase spending for real estate, but the information that was collected was deemed too unreliable to provide an accurate estimation of that spending and is not included here.

The detailed breakdown of total spending in all categories by resident and nonresident anglers in Table 32 shows the differences in their specific purchases. Generally, nonresidents spent more than resident on trip-related items with the exception of fuel, bait and dock/mooring fees. Owing to the enhanced role that nonresidents play in Southeast fishing, it is only in the category of dock/mooring fees that residents spent more. Especially in those categories associated with travel, nonresidents spent considerably more than residents (e.g., guide fees, airfare and other travel, fish processing, rentals, restaurant meals, lodging, gifts/souvenirs, etc.). Since most people purchase equipment closer to where they live, and vacationers typically do not buy a significant amount of equipment while traveling, it is not surprising that residents outspent nonresidents in nearly every equipment category. However, reflecting the prominence of nonresidents in this region, they outspent residents for clothing, footwear, and other equipment, and nearly match resident in several other categories.

Further breakdowns of trip and package spending are presented in Table 33, which shows total spending by resident/nonresidents, guided/unguided, and by type of water fished. In this breakdown, the greatest amount of trip spending came from nonresident anglers on guided trips fishing in salt water (\$52.4 million). Those anglers also spent the most on packages (\$32.6 million). That group of anglers accounted for 46.7% of all trip spending in the region and 81.9% of all package spending.

The multi-purpose nature of many equipment items precludes a similarly detailed breakdown of equipment or real estate spending in the Southeast Region for this report. Additional detailed estimates of total and average spending by expenditure category are presented in Appendices I and J.

Table 33.-Detailed TRIP and PACKAGE spending in the Southeast Region, by residency, use of guides, and type of water fished, 2007.

	RFSI	DENT	NONRE	SIDENT	ALL
	Guided*	Unquided	Guided	Unquided	ANGLERS
FRESHWATER ANGLERS				0.13,0.10.0	
Trip Expenditures					
Fuel and oil		\$383,676	\$219,286	\$512,747	\$1,139,224
Guide and charter fees		\$0	\$2,414,749	\$588,639	\$3,169,947
Airfare to and from Alaska		\$0	\$1,080,118	\$1,758,496	\$2,838,613
Travel within Alaska		\$16,226	\$535,243	\$841,813	\$1,393,282
Fish processing & shipping		\$91,673	\$488,682	\$455,557	\$1,035,912
Rentals (boats, equipment, etc.)		\$0 \$60.656	\$169,494	\$354,121	\$523,615
Derby tickets Boat launch and dock fees		\$69,656 \$9,657	\$0 \$0	\$4,081	\$73,737 \$277.905
		\$8,687	\$0 \$0.488	\$263,239	\$277,805 \$45,364
lce		\$10,216 \$108,566	\$8,488 \$48,740	\$26,661 \$177,223	\$45,364 \$334,529
Bait (natural bait only) Groceries bought in stores		\$226,283	\$386,069	\$816,755	\$1,446,743
Restaurants, bars, and take-out		\$220,263 \$0	\$466,441	\$692,006	\$1,446,743 \$1,158,448
Overnight accommodations		\$0 \$0	\$1,564,947	\$1,386,011	
		· ·			\$2,950,958
Souvenirs and gifts		\$21,429 \$40,200	\$186,409 \$124,068	\$430,943	\$638,782
Other entertainment Other		\$49,299 \$0	\$124,968 \$0	\$140,832 \$0	\$315,099 \$0
Sub-Total		\$985,711	\$7,693,634	\$8,449,125	\$17,342,058
Sub-Total		<b>φ903,711</b>	<b>Φ1,093,034</b>	<b>ФО,449,12</b> 3	\$17,342,036
Package Expenditures		NA*	\$2,070,725	\$1,164,897	\$3,235,622
SALTWATER ANGLERS					
Trip Expenditures		<b>Ф7 000 000</b>	Φ4 F00 400	<b>#4.405.000</b>	<b>640 400 000</b>
Fuel and oil		\$7,232,882	\$1,532,460	\$4,125,662	\$13,198,038
Guide and charter fees		\$84,305	\$21,505,868	\$305,377	\$23,761,150
Airfare to and from Alaska		\$0	\$9,469,274	\$4,852,526	\$14,321,800
Travel within Alaska		\$42,165	\$1,780,545	\$750,283	\$2,572,992
Fish processing & shipping		\$1,265,507	\$5,191,906	\$701,845	\$7,667,809
Rentals (boats, equipment, etc.)		\$58,241	\$740,166	\$1,005,864	\$1,871,986
Derby tickets		\$746,192	\$47,683	\$37,464	\$831,340
Boat launch and dock fees		\$4,126,563	\$2,686	\$493,202	\$4,647,823
lce		\$223,702	\$21,528	\$67,288	\$312,518
Bait (natural bait only)		\$1,482,050	\$47,906	\$465,636	\$2,006,804
Groceries bought in stores		\$2,676,679	\$1,888,464	\$2,604,512	\$7,280,057
Restaurants, bars, and take-out		\$235,603	\$2,333,949	\$2,155,046	\$4,750,827
Overnight accommodations		\$104,796	\$4,109,380	\$2,393,836	\$6,608,012
Souvenirs and gifts		\$23,059	\$3,002,209	\$1,082,181	\$4,107,450
Other entertainment		\$44,412	\$537,568 \$400,537	\$254,262	\$836,243
Other Sub-Total		\$0 <b>\$18,346,157</b>	\$199,537 <b>\$52,411,128</b>	\$8,184 <b>\$21,303,169</b>	\$207,720 \$94,982,568
			ψ32,411,120	Ψ21,303,103	ψ3 <del>-</del> 1,302,300
Package Expenditures		NA*	\$32,652,353	\$3,978,528	\$36,630,880
ALL ANGLERS					
Trip Expenditures Fuel and oil		\$7,616,558	\$1,751,746	\$4,638,409	\$14,337,262
Guide and charter fees		\$7,616,558 \$84,305	\$1,751,746 \$23.920.617	\$4,638,409 \$894,016	\$14,337,262 \$26.931.097
		' '	+ -,,-		+ -,,
Airfare to and from Alaska Travel within Alaska		\$0 \$50,200	\$10,549,392	\$6,611,022	\$17,160,414
Fish processing & shipping		\$58,390 \$4,357,494	\$2,315,788	\$1,592,097 \$1,157,402	\$3,966,275 \$9,703,734
Rentals (boats, equipment, etc.)		\$1,357,181 \$58,241	\$5,680,588	\$1,157,402 \$1,350,095	\$8,703,721 \$2,205,604
Derby tickets		\$58,241 \$815,848	\$909,660 \$47,683	\$1,359,985 \$41,546	\$2,395,601
Boat launch and dock fees		\$4,135,250	\$2,686	\$756,441	\$905,077 \$4,925,627
lce					
Bait (natural bait only)		\$233,917 \$1,590,616	\$30,016 \$96,647	\$93,949 \$642,859	\$357,882 \$2,341,333
Groceries bought in stores		\$2,902,963	\$96,647 \$2,274,532	\$3,421,267	
Restaurants, bars, and take-out		\$2,902,963	\$2,800,391	\$2,847,052	\$8,726,800 \$5,909,275
Overnight accommodations		\$235,603 \$104,796	\$5,674,327	\$2,647,052 \$3,779,846	\$9,558,970
Souvenirs and gifts		\$44,489	\$3,188,618	\$1,513,125	
Other entertainment		\$44,469 \$93,712	\$3,166,616 \$662,536	\$1,513,125 \$395,094	\$4,746,231 \$1,151,342
Other		\$93,712 \$0	\$199,537	\$8,184	\$207,720
Sub-Total		\$19,331,868	\$60,104,762	\$29,752,294	\$112,324,626
				. , ,	
Package Expenditures  *estimates are not reported due to small sai	mula aiza	NA*	\$34,723,078	\$5,143,425	\$39,866,502

\*estimates are not reported due to small sample size.

#### **Economic Contributions**

Expenditures by anglers generate additional economic benefits throughout the Southeast Alaska economy. Multiplier effects have been estimated separately for trip spending and package spending, and for equipment and real estate spending combined. All economic contributions have been estimated separately for residents and nonresidents. The direct effects that are shown in the following tables reflect the economic activity associated with angler spending captured within the regional economy (i.e. consumer retail spending less the value of goods imported from outside of the regional economy). For that reason, the direct output values in the tables that follow are likely to be less than the reported angler spending for any specific category.

The \$273.5 million of spending by anglers in the Southeast region in 2007 generated \$71.3 million of income to 2,243 full and part time employees and proprietors who worked in the Southeast businesses whose products were purchased by anglers. Spending by nonresidents accounted for 1,662 of the jobs and \$51.0 million of income (Table 34). In addition to the economic activity directly attributable to spending by anglers are the multiplier effects (indirect and induced effects) of that consumer spending. The indirect effect results from the increased economic activity among businesses that supply those businesses selling directly to the anglers. For example, the guide that sells directly to anglers, in turn, stimulates additional activity among the businesses that supply the guide's operations. The induced effect is the economic activity produced by household spending of income earned by workers in those businesses that are impacted by both the direct and indirect effects. Including both direct and multiplier effects, the \$273.5 million of spending in the region by anglers produced \$99.1 million of income and supported 3,063 full and part-time jobs (Table 34).

Table 34.—Southeast Region economic contributions of ALL spending for sportfishing, by residency, 2007\*.

	Resident	Nonresident	All
	Anglers	Anglers	Anglers
Direct effects			
Output	\$57,516,133	\$152,306,732	\$209,822,865
Income	\$20,284,669	\$50,987,336	\$71,272,005
Employment (jobs)	582	1,662	2,243
Multiplier effects			
Output	\$21,868,892	\$63,568,253	\$85,437,145
Income	\$7,031,339	\$20,838,350	\$27,869,689
Employment (jobs)	209	611	820
Total effects			
Output	\$79,385,025	\$215,874,985	\$295,260,010
Income	\$27,316,008	\$71,825,686	\$99,141,694
Employment (jobs)	791	2,273	3,063

<sup>\*</sup>Includes contributions of trip, package, equipment and real estate spending.

The relationship between the direct effect (i.e. directly attributable to the spending by anglers) and the total economic activity that it creates is commonly presented in the form of a multiplier. Typically, smaller regional economies will exhibit smaller multipliers due to the reduced opportunities to retain economic activity within the region. In the case of Southeast sportfishing, the output multiplier of 1.41 (total effect divided by direct effect) means every dollar of activity stimulated by angler spending creates an additional \$0.41 of economic activity elsewhere in the economy (compared to a statewide output multiplier of 1.62). In similar fashion, the income and employment multipliers are 1.39 and 1.37, respectively. This means that for every dollar of income paid to workers in businesses that sell directly to anglers and for every job in a business that sells directly to anglers there is an additional \$0.39 of income and 0.37 additional jobs in other businesses throughout the region that are supported by angler spending.

Employment effects are of particular importance to the state and local economy. The jobs supported by angler expenditures are shown in Table 35 categorized by the industry in which the jobs occur. The jobs directly supported by angler spending largely reflect the types of expenditures made by anglers – trip expenditures for food, bait, lodging and guide services, maintenance of real estate used for sportfishing, and retail purchases of fishing and related equipment. Sector 11 in the following table includes farming and commercial fishing and hunting and is directly affected primarily through anglers' purchases of groceries and bait. The broader distribution of jobs indirectly supported by angler spending through the multiplier effect is the result of inter-industry trade flows and the expenditures of household income that comes from angler-supported jobs.

Table 35.–Employment (jobs) directly and indirectly supported by angler expenditures in the Southeast region, by industry in which the employment occurs, 2007.

NAICS Industry Categories	Direct Effects	Multiplier Effects	Total Effects
11 Agriculture, forestry, fishing & hunting	53	35	88
21 Mining	7	1	8
22 Utilities	-	5	5
23 Construction	319	7	326
31-33 Manufacturing	22	13	35
42 Wholesale trade	68	16	84
48-49 Transportation & warehousing	124	65	189
44-45 Retail trade	418	135	553
51 Information	-	23	23
52 Finance & insurance	-	23	23
53 Real estate & rental	40	55	95
54 Professional- scientific & technical services	-	46	46
55 Management of companies	-	1	1
56 Administrative & waste services	2	59	60
61 Educational services	-	9	9
62 Health & social services	-	88	88
71 Arts- entertainment & recreation (e.g., guides)	638	27	665
72 Accommodation & food services	464	97	561
81 Other services	79	67	146
92 Government and public administration	10	48	58
Total Employment Impact	2,243	818	3,063

Table 36 presents a breakdown by residency of the economic contributions that derive from anglers' spending on equipment and real estate in the Southeast region (a subset of total spending). Including the direct and multiplier effects, the \$67.5 million spent on equipment and \$53.8 million spent on real estate (Table 30) supported 873 jobs and provided \$37.0 million of income (Table 36). Due to the different mix of equipment purchased by residents and nonresidents the relative effects of their spending is slightly different than their actual spending. Residents spent more on equipment and real estate (\$76.1 million by residents compared to \$45.2 million by nonresidents), but the nonresident spending produced slightly more income (\$19.3 million compared to \$17.7 million produced by resident spending), while resident spending supported more jobs (472 jobs compared to 401 jobs).

Table 36.–Economic contributions of expenditures for sportfishing EQUIPMENT and REAL ESTATE in the Southeast region, by residency, 2007.

	Resident	Nonresident	All
	Anglers	Anglers	Anglers
Direct effects			
Output	\$36,096,142	\$38,683,245	\$74,779,387
Income	\$13,355,478	\$14,703,471	\$28,058,949
Employment (jobs)	343	265	608
Multiplier effects			
Output	\$13,472,916	\$14,142,004	\$27,614,920
Income	\$4,305,972	\$4,598,336	\$8,904,308
Employment (jobs)	128	136	265
Total effects			
Output	\$49,569,058	\$52,825,249	\$102,394,307
Income	\$17,661,450	\$19,301,807	\$36,963,257
Employment (jobs)	472	401	873

Table 37 shows the economic contributions from spending on trips and packages, broken down by residency, use of guides, and type of water fished. Similar to angler spending, the largest economic contributions come from nonresident anglers fishing in salt water with the services of a guide. Including the direct and multiplier effects, their spending supported 1,274 jobs that provided \$35.2 million of income. That represents 41.6% and 35.5%, respectively, of all jobs and income in the region supported by sportfishing anglers.

Additional detailed estimates of the industry impacts in Southeast Alaska due to angler spending are presented in Appendices K and L.

Table 37.—Southeast Region economic contributions of combined TRIP-RELATED and PACKAGE spending for sportfishing, by residency, use of guides, and type of water.

	RES	SIDENT	NONRES	SIDENT	TO	OTAL*	ALL
	Guided**	Unguided	Guided	Unguided	Resident	Nonresident	ANGLERS
FRESHWATER ANGLER	RS						
Direct effects							
Output		\$907,746	\$8,727,750	\$7,962,183	\$1,115,661	\$16,689,933	\$17,805,594
Income		\$305,200	\$2,759,416	\$2,558,197	\$372,515	\$5,317,613	\$5,690,128
Employment		11	107	95	13	203	216
Multiplier effects							
Output		\$352,723	\$4,084,964	\$3,480,698	\$455,895	\$7,565,662	\$8,021,557
Income		\$112,597	\$1,378,099	\$1,135,496	\$149,823	\$2,513,595	\$2,663,418
Employment		3	39	34	4	73	78
Total effects							
Output		\$1,260,469	\$12,812,714	\$11,442,881	\$1,571,556	\$24,255,595	\$25,827,151
Income		\$417,797	\$4,137,515	\$3,693,693	\$522,338	\$7,831,208	\$8,353,546
Employment		14	147	129	18	276	293
CALTMATER AND ERO							
SALTWATER ANGLERS	<u> </u>						
Direct effects		¢17 41/ 401	¢75 020 757	¢21 002 707	#20.204.220	¢0/ 022 FF4	¢117 007 004
Output		\$17,416,421	\$75,930,757	\$21,002,797	\$20,304,330	\$96,933,554	\$117,237,884
Income		\$5,641,068	\$24,148,749	\$6,817,503	\$6,556,676	\$30,966,252	\$37,522,928
Employment		192	953	241	226	1,194	1,419
Multiplier effects		*****		+		*** *** ***	
Output		\$6,665,412	\$33,423,682	\$8,436,905	\$7,940,081	\$41,860,587	\$49,800,668
Income		\$2,150,884	\$11,048,563	\$2,677,856	\$2,575,544	\$13,726,419	\$16,301,963
Employment		63	321	80	76	402	478
Total effects							
Output		\$24,081,833	\$109,354,439	\$29,439,702	\$28,244,411	\$138,794,141	\$167,038,552
Income		\$7,791,952	\$35,197,312	\$9,495,359	\$9,132,220	\$44,692,671	\$53,824,891
Employment		255	1,274	321	301	1,595	1,897
ALL ANGLERS							
Direct effects							
Output		\$18,324,167	\$84,658,507	\$28,964,980	\$21,419,991	\$113,623,487	\$135,043,478
Income		\$5,946,268	\$26,908,165	\$9,375,700	\$6,929,191	\$36,283,865	\$43,213,056
Employment		202	1,060	336	239	1,396	1,635
Multiplier effects			.,			1,270	1,230
Output		\$7,018,135	\$37,508,646	\$11,917,603	\$8,395,976	\$49,426,249	\$57,822,225
Income		\$2,263,481	\$12,426,662	\$3,813,352	\$2,725,367	\$16,240,014	\$18,965,381
Employment		67	361	114	80	475	555
Total effects		· · ·	331			.,,	
Output		\$25,342,302	\$122,167,153	\$40,882,583	\$29,815,967	\$163,049,736	\$192,865,703
Income		\$8,209,749	\$39,334,827	\$13,189,052	\$9,654,558	\$52,523,879	\$62,178,437
Employment		269	1,421	451	319	1,871	2,190
Ешьюяны		209	1,421	401	319	1,0/1	2,190

<sup>\*</sup> Total guided and unguided trip related and package spending.

<sup>\*\*</sup>Estimates are not reported due to small sample size.

The economic activity directly and indirectly generated by sportfishing also produces tax revenues for local, state and federal governments. The IMPLAN model produces generalized estimates of tax revenues that are based on existing statewide ratios of output, income and employment to all tax revenues. It is estimated that sportfishing expenditures in Southeast Alaska in 2007 provided \$22.1 million and \$21.5 million of state/local and federal tax revenues, respectively (Table 38). Nearly three-fourths of the tax revenues (72.0%) were the result of spending by nonresident anglers.

Table 38.—Tax revenues generated in the Southeast Region from the economic contributions of sportfishing, 2007.

	State and Local Tax Revenues	Federal Tax Revenues	Total tax Revenues
RESIDENT ANGLERS			
Trip Expenditures (non-package)	\$2,861,336	\$2,193,793	\$5,055,129
Package Expenditures			\$0
Equipment & Real Estate Expenditures	\$3,514,900	\$3,657,338	\$7,172,239
Subtotal	\$6,376,236	\$5,851,132	\$12,227,368
NONRESIDENT ANGLERS			
Trip Expenditures (non-package)	\$9,237,295	\$8,056,263	\$17,293,558
Package Expenditures	\$4,135,685	\$3,791,372	\$7,927,057
Equipment & Real Estate Expenditures	\$2,313,802	\$3,834,147	\$6,147,950
Subtotal	\$15,686,783	\$15,681,782	\$31,368,564
ALL ANGLERS			
Trip Expenditures (non-package)	\$12,098,631	\$10,250,056	\$22,348,687
Package Expenditures	\$4,135,685	\$3,791,372	\$7,927,057
Equipment & Real Estate Expenditures	\$5,828,703	\$7,491,486	\$13,320,188
Total	\$22,063,019	\$21,532,913	\$43,595,932

### **SOUTHCENTRAL REGION**

This section presents the detailed expenditures and economic contributions for sportfishing in the Southcentral Region. The spending and contribution totals in the following Southcentral Region tables do not include the cost of fishing licenses and stamps. This expenditure is not included in the subsequent regional tables because licenses and stamps are purchased from state government and cannot be assigned to a particular region. However, it is included in the statewide analysis (Table 20).

## **Angler Days**

Of the total 2.5 million days of sportfishing in Alaska in 2007, 1.8 million days of fishing occurred in Southcentral Alaska. Approximately 1.1 million (61%) of those days were taken by Alaska residents, while nonresidents accounted for 0.7 million anglers days (39%). The majority of the angler days of fishing were unguided although nonresidents (40%) were much more likely than residents (10%) to take guided fishing trips. Both resident and nonresident anglers in the Southcentral Region were more likely to fish freshwater than saltwater (Table 39).

Table 39.—Southcentral Region angler days, by residency, water type, and guided/unguided\*, 2007.

	RESID	ENT	NONRE	SIDENT	ALL ANG	GLERS
	Angler- Days	%	Angler- Days	%	Angler- Days	%
Freshwater						
Guided	46,653	6.7%	158,300	32.4%	204,953	17.3%
Unguided	647,403	93.3%	329,548	67.6%	976,951	82.7%
Total	694,056	100.0%	487,848	100.0%	1,181,904	100.0%
Saltwater						
Guided	56,711	14.5%	127,593	57.2%	184,304	30.0%
Unguided	335,195	85.5%	95,402	42.8%	430,597	70.0%
Total	391,906	100.0%	222,995	100.0%	614,901	100.0%
Total Guided	103,364	9.5%	285,893	40.2%	389,257	21.7%
Total Unguided	982,598	90.5%	424,950	59.8%	1,407,548	78.3%
TOTAL	1,085,962	100.0%	710,843	100.0%	1,796,805	100.0%

Source: 2007 Statewide Harvest Survey, Alaska Department of Fish and Game.

<sup>\*</sup>Totals reported here do not exactly match published statewide and regional totals from the 2007 SWHS due to the fact that it is not possible to identify the water type or guided/unguided status of some SWHS survey responses. The totals reported in this table reflect the summary of all days fished within a region that could be assigned to a specific residency, water type, and guided/unguided category. Approximately 4,177 days fished (0.16% of 2.5 million days) could not be assigned to a strata category and thus were not included in these totals.

### **Expenditures**

Where anglers spend their money is not necessarily tied to where they fish or where they live. In actuality, an angler on a one-day or multi-day fishing trip might start from their home, purchase fuel, food, or other supplies on the way to their destination, and then make additional purchases such as bait, ice, or guide services, closer to where they fish. The following expenditure tables take this into account by reporting total expenditures made in the Southcentral region made by all Alaska resident anglers, regardless of where they fished or the region where they live, and by all nonresident anglers who live outside of Alaska regardless of where they fished. Together, resident and nonresident anglers spent \$988.6 million in Southcentral Alaska related to sportfishing, not including their purchases of licenses and stamps. Of that total, 42.3% (\$417.9 million) was non-package trip spending. When combined with fishing packages, all trip-related spending accounted for 51.4% (\$508.0 million) of all sportfishing expenditures in the region. Spending on fishing and fishing-related equipment (\$357.2 million) represented more than one-third (36.1%) of all spending in the region, while spending for maintenance and construction of real estate that is used primarily for sportfishing was 12.5% of the total. (Table 40).

Table 40.—Southcentral Region total spending for sportfishing by expenditure category and residency, 2007.

	Resident Anglers				All Anglers	
Expenditures	Spending %		Spending	%	Spending	%
Trip	\$181,889,019	32.4%	\$236,024,061	55.2%	\$417,913,080	42.3%
Package	\$0	0.0%	\$90,130,556	21.1%	\$90,130,556	9.1%
Equipment	\$328,171,050	58.5%	\$29,013,940	6.8%	\$357,184,990	36.1%
Real Estate	\$50,895,003	9.1%	\$72,434,491	16.9%	\$123,329,493	12.5%
Total	\$560,955,071	100.0%	\$427,603,048	100.0%	\$988,558,119	100.0%

<sup>\*</sup>Package expenditures refer specifically to travel packages purchased by nonresidents prior to departing on their trip to Alaska.

Similar to statewide spending, more money was spent in the Southcentral region by residents (\$561.0 million) than nonresidents (\$427.6 million). Most resident spending was associated with purchases of equipment used for fishing (\$328.2 million), followed by trip expenditures (\$181.9 million), and real estate (\$50.9 million). More than one-half of spending by nonresidents in the Southcentral region was trip-related (\$236.0 million) followed by pre-purchased packages (\$90.1 million). Nonresident anglers spent \$72.4 million on real estate and \$29.0 million on fishing equipment (Table 40). It should be noted that all spending refers specifically to purchases that were made in the Southcentral region; therefore it is not surprising that equipment expenditures by nonresidents were disproportionately lower than residents since anglers typically purchase most of their fishing tackle and equipment closer to where they live.

Table 41 presents a summary of the average spending that took place in the Southcentral region for the major expenditure categories. Trip and package spending is based on total spending in the region and is averaged across all days of fishing that took place in the region, regardless of where individual resident anglers lived or fished. Due to the durable nature of equipment and its use across many trips, equipment and real estate expenditures are shown as the average spent in the region across all resident and nonresident anglers in Alaska. Overall, anglers fishing in Alaska spent an average of \$282.75 in the Southcentral region per day of fishing for all trip and package related purchases (fuel, groceries, bait, lodging, restaurants, etc.). The average angler spent \$1,012.09 per year in the Southcentral region on fishing and related equipment and real estate (rods, reels, boats, motors, clothing, maintenance, etc.; Table 41).

Table 41.—Average expenditures in the Southcentral region made by Alaska resident and nonresident anglers, 2007\*.

	Resident Anglers	Nonresident Anglers	All Anglers
		\$ per angler-day	
Trip Expenditures	\$167.49	\$332.03	\$232.59
Package Expenditures	NA**	\$126.79	\$50.16
Total trip spending	\$167.49	\$458.83	\$282.75
	annı	ual \$ per licensed ar	ngler
Equipment Expenditures	\$1,725.87	\$101.55	\$752.74
Real Estate Expenditures	\$266.96	\$254.25	\$259.35
Total equipment & real estate spending	\$1,992.83	\$355.80	\$1,012.09

 $<sup>*</sup>Estimates\ of\ average\ spending\ for\ detailed\ trip\ and\ equipment\ categories\ are\ presented\ in\ Appendix\ L.$ 

The patterns of spending on an average basis are similar to those on a total basis: nonresidents, on average, spent more per day for trip-related purchases in the Southcentral region than Alaska residents (\$458.83 per day compared to \$167.49 per day). Conversely, the average Alaska resident spent more in the Southcentral region than the average nonresident for equipment (\$1,725.87 compared to \$101.55). Interestingly, the average expenditure on real estate for fishing (approximately \$260.) was the same for both resident and nonresident anglers.

Anglers make a wide range of purchases to support their fishing activity including trip-related expenditures, fishing tackle and other fishing-related equipment, and expenses related to real estate that they use for fishing. Trip-related expenses refer to spending for temporary or consumable goods and services that anglers make while on a particular fishing trip. These range from food and lodging to travel expenses (e.g., fuel, air taxis, etc.), groceries, bait, and derby tickets. The full list of trip items and the amount spent by resident and nonresidents in Southcentral Alaska is presented in Table 42.

<sup>\*\*</sup>Package expenditures refer specifically to purchases of travel packages made by nonresidents prior to departing on their trip to Alaska.

Some nonresident anglers opt to pre-purchase a packaged fishing expedition from one of the many outfitters, guides and lodges in Alaska. Such packages typically offer a range of services for one price including transportation, guides, food and lodging. The survey of nonresidents asked anglers to report spending for any packages that they may have purchased and to indicate which amenities were included in the package.

Equipment expenditures refer to a list of tackle and other items that are used only for fishing, plus other equipment that might be used in other pursuits in addition to fishing. The details of total spending in the Southcentral region for these items is listed in the bottom half of Table 42. The dollar figures represent total amounts spent in 2007 on fishing equipment and only that portion of multi-use equipment that anglers reported was used specifically for fishing.

The real estate spending in Table 42 shows the annual costs of construction and maintenance that anglers reported was associated with real estate that is used primarily for sportfishing purposes. These numbers do not include any spending that anglers may have made to purchase or lease real estate used for sportfishing. An effort was made in the survey to capture lease/purchase spending for real estate, but the information that was collected was deemed too unreliable to provide an accurate estimation of that spending and is not included here.

The detailed breakdown of total spending in all categories by resident and nonresident anglers in Table 42 shows the differences in their specific purchases. Generally, nonresidents spent more than residents on trip-related items. However, in the Southcentral region, residents spent considerably more than nonresidents on those items associated with every outing, including one-day trips that are more typical of resident anglers (fuel, dock/mooring fees, ice, bait, and groceries). Nonresidents spent considerably more than residents on those items associate with extended travel (e.g., airfare and other travel, lodging, restaurant meals, gifts/souvenirs) and fishing related expenses that they cannot reasonably accommodate on their own (guide fees, fish processing, equipment rentals). Since most people purchase equipment closer to where they live, and vacationers typically do not buy a significant amount of equipment while traveling, it is not surprising that residents outspent nonresidents in nearly every equipment category except the miscellaneous "other" equipment category.

Further breakdowns of trip and package spending are presented in Table 43 which shows total spending by residency, type of water fished, and use of guides. In this breakdown, the greatest amount of trip spending came from nonresident anglers on guided trips fishing in salt water (\$86.1 million). Those anglers accounted for 20.6% of all trip spending. Nonresident anglers on guided fishing trips in fresh water spent the most on package trips (\$49.2 million), or 54.6% of all package spending in the region.

The multi-purpose nature of many equipment items precludes a similarly detailed breakdown of equipment or real estate spending in the Southcentral Region for this report. Detailed estimates of total and average spending by expenditure category are presented in Appendices I and J.

Table 42.-Detailed spending for sportfishing in Southcentral Alaska, by residency, 2007.

	Resident	Nonresident	Total
<u>Trip Expenditures</u>			4.
Fuel	\$54,295,081	\$15,323,766	\$69,618,847
Guide	\$29,089,167	\$53,828,140	\$82,917,307
Air	\$2,397,597	\$32,448,467	\$34,846,064
Travel	\$751,980	\$6,403,613	\$7,155,593
Process	\$7,099,744	\$22,245,717	\$29,345,461
Rentals	\$2,144,824	\$21,886,874	\$24,031,699
Derby	\$1,518,191	\$379,589	\$1,897,780
Dock	\$8,742,469	\$1,624,618	\$10,367,086
Ice	\$3,082,403	\$900,241	\$3,982,644
Bait	\$4,761,052	\$1,432,653	\$6,193,705
Groceries	\$29,025,822	\$18,948,371	\$47,974,193
Meals	\$14,061,048	\$18,656,438	\$32,717,487
Lodging	\$17,953,173	\$27,251,408	\$45,204,580
Gifts	\$2,569,424	\$10,663,926	\$13,233,350
Amusements	\$4,309,182	\$3,636,888	\$7,946,070
Other	\$87,862	\$393,353	\$481,215
Sub-Total	\$181,889,019	\$236,024,061	\$417,913,080
Package Expenditures	NA*	\$90,130,556	\$90,130,556
Equipment Expenditures			
Rods, reels, & components	\$15,269,246	\$4,245,931	\$19,515,177
Fishing tackle	\$9,379,640	\$4,837,907	\$14,217,547
Tackle boxes	\$1,306,540	\$289,359	\$1,595,900
Depth finders, fish finders, etc.	\$6,622,578	\$44,933	\$6,667,511
Landing nets, dipnets & gillnets	\$2,782,113	\$255,250	\$3,037,363
Misc. fishing equip	\$3,283,959	\$1,204,103	\$4,488,062
Shellfish fishing equip	\$1,502,762	\$136,615	\$1,639,377
Fish mounting (taxidermy)	\$1,454,872	\$390,778	\$1,845,650
Books and magazines	\$939,037	\$428,995	\$1,368,032
Items to store/preserve fish	\$5,643,839	\$1,984,562	\$7,628,401
Coolers, fish boxes	\$2,296,735	\$1,313,396	\$3,610,131
Clothing	\$5,056,318	\$1,875,674	\$6,931,992
Boots, shoes, waders	\$4,256,400	\$1,307,575	\$5,563,975
Life jackets, survival suits	\$2,732,546	\$79,968	\$2,812,514
Boats, canoes, other watercraft	\$84,377,363	\$2,153,623	\$86,530,986
Boat motors	\$26,321,397	\$707,214	\$27,028,611
Trailers, hitches, and acc	\$4,498,567	\$198,535	\$4,697,102
Other boat parts and acc	\$10,469,616	\$517,946	\$10,987,563
Bear spray, bug spray, etc	\$894,892	\$370,319	\$1,265,211
Firearms	\$4,249,236	\$81,983	\$4,331,218
Cameras, binoculars	\$4,078,028	\$624,609	\$4,702,636
Tents, backpacks, sleeping bags	\$2,775,877	\$221,010	\$2,996,888
Camping trailer	\$27,400,300	\$15,757	\$27,416,058
Other camping equip	\$1,930,562	\$186,481	\$2,117,042
Vehicles (trucks,SUVs, etc)	\$58,528,989	\$3,914,402	\$62,443,391
Airplanes and related equipment	\$2,697,880	\$874,940	\$3,572,819
ATVs, snowmachines	\$18,649,536	\$0 \$0	\$18,649,536
Boat/camper registrations			
Vehicle, boat or airplane repair	\$2,937,391 \$15,626,970	\$246,644 \$496,764	\$3,184,035 \$16,123,734
Other			
Sub-Total	\$207,861 <b>\$328,171,050</b>	\$8,666 <b>\$29,013,940</b>	\$216,528 <b>\$357,184,99</b> 0
Real Estate Expenditures			
Real estate repairs	\$13,095,701	\$9,265,228	\$22,360,928
Real estate construction	\$37,799,302	\$63,169,263	\$100,968,565
Sub-Total	\$50,895,003	\$72,434,491	\$123,329,493
TOTAL SPENDING	\$560,955,071	\$427,603,048	\$988,558,119

<sup>\*</sup>Package expenditures refer specifically to purchases of travel packages made by nonresidents prior to departing on their trip to Alaska.

Table 43.—Detailed total TRIP and PACKAGE spending in Southcentral Alaska, by residency, use of guides, and type of water fished, 2007.

	RESI	DENT	NONRES	SIDENT	ALL
	Guided	Unguided	Guided	Unguided	ANGLERS
FRESHWATER ANGLERS					
Trip Expenditures	<b>40.740.400</b>	<b>****</b>	<b>#</b> 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	<b>A5.547.400</b>	400 -0-0
Fuel and oil	\$2,742,460	\$24,366,478	\$4,101,499	\$5,517,436	\$36,727,873
Guide and charter fees Airfare to and from Alaska	\$12,038,032 \$1,212,832	\$1,478,417	\$24,892,052 \$9,752,250	\$2,837,944	\$41,246,447 \$24,315,395
Travel within Alaska	\$1,212,632 \$324,786	\$690,530 \$196,692	\$9,752,250 \$2,379,647	\$12,659,783 \$1,794,963	\$4,696,089
Fish processing & shipping	\$319,038	\$2,543,272	\$5,334,817	\$4,931,189	\$13,128,316
Rentals (boats, equipment, etc.)	\$0	\$1,294,435	\$6,482,627	\$7,759,341	\$15,536,403
Derby tickets	\$27,953	\$299,004	\$59,905	\$40,267	\$427,129
Boat launch and dock fees	\$14,288	\$3,435,880	\$42,488	\$778,927	\$4,271,582
Ice	\$85,119	\$1,588,106	\$191,731	\$412,875	\$2,277,831
Bait (natural bait only)	\$16,343	\$1,546,166	\$157,931	\$465,618	\$2,186,057
Groceries bought in stores	\$1,954,615	\$15,657,441	\$4,750,100	\$8,274,104	\$30,636,260
Restaurants, bars, and take-out	\$2,209,260	\$5,617,101	\$5,752,102	\$5,076,313	\$18,654,776
Overnight accommodations	\$5,376,485	\$5,805,912	\$9,808,358	\$4,628,686	\$25,619,442
Souvenirs and gifts	\$368,755	\$788,293	\$3,212,855	\$3,368,461	\$7,738,364
Other entertainment	\$559,685	\$1,001,071	\$1,475,496	\$997,645	\$4,033,897
Other	\$0	\$46,262	\$212,375	\$6,930	\$265,567
Sub-Total	\$27,249,652	\$66,355,060	\$78,606,235	\$59,550,482	\$231,761,428
Package Expenditures	NA*	NA*	\$49,239,651	\$9,308,656	\$58,548,307
SALTWATER ANGLERS	1		<b>\$ 10,200,001</b>	<b>40,000,000</b>	<del>+++++++++++++++++++++++++++++++++++++</del>
Trip Expenditures	•				
Fuel and oil	\$2,446,003	\$24,740,140	\$4,043,535	\$1,661,296	\$32,890,974
Guide and charter fees	\$14,864,487	\$708,231	\$25,822,420	\$275,723	\$41,670,860
Airfare to and from Alaska	\$494,235	\$0	\$8,356,457	\$1,679,976	\$10,530,669
Travel within Alaska	\$21,360	\$209,141	\$2,131,894	\$97,109	\$2,459,503
Fish processing & shipping	\$1,640,966	\$2,596,468	\$10,435,633	\$1,544,079	\$16,217,145
Rentals (boats, equipment, etc.)	\$95,175	\$755,215	\$6,929,732	\$715,174	\$8,495,296
Derby tickets	\$186,016	\$1,005,218	\$255,843	\$23,574	\$1,470,651
Boat launch and dock fees	\$47,398	\$5,244,902	\$64,765	\$738,438	\$6,095,504
lce	\$193,116	\$1,216,061	\$206,545	\$89,090	\$1,704,813
Bait (natural bait only)	\$74,389	\$3,124,154	\$182,548	\$626,556	\$4,007,647
Groceries bought in stores	\$2,079,320	\$9,334,446	\$4,364,441	\$1,559,726	\$17,337,933
Restaurants, bars, and take-out	\$2,283,589	\$3,951,099 \$3,869,740	\$7,005,022 \$11,674,350	\$823,001 \$1,140,004	\$14,062,711 \$10,595,120
Overnight accommodations Souvenirs and gifts	\$2,901,035 \$676,856	\$735,520	\$11,674,359 \$3,584,090	\$498,519	\$19,585,139 \$5,494,985
Other entertainment	\$374,483	\$2,373,944	\$904,726	\$259,021	\$3,912,174
Other	\$6,847	\$34,753	\$174,048	\$0	\$215,647
Sub-Total	\$28,385,275	\$59,899,032	\$86,136,056	\$11,731,288	\$186,151,652
Package Expenditures	NA*	NA*	\$26,739,321	\$4,842,927	\$31,582,248
ALL ANGLERS		INA	Ψ20,700,021	ψ4,042,021	ψ01,002,240
Trip Expenditures	•				
Fuel and oil	\$5,188,462	\$49,106,619	\$8,145,034	\$7,178,732	\$69,618,847
Guide and charter fees	\$26,902,519	\$2,186,648	\$50,714,472	\$3,113,668	\$82,917,307
Airfare to and from Alaska	\$1,707,067	\$690,530	\$18,108,707	\$14,339,760	\$34,846,064
Travel within Alaska	\$346,147	\$405,833	\$4,511,541	\$1,892,072	\$7,155,593
Fish processing & shipping	\$1,960,004	\$5,139,740	\$15,770,450	\$6,475,268	\$29,345,461
Rentals (boats, equipment, etc.)	\$95,175	\$2,049,649	\$13,412,359	\$8,474,515	\$24,031,699
Derby tickets	\$213,969	\$1,304,222	\$315,748	\$63,841	\$1,897,780
Boat launch and dock fees Ice	\$61,686	\$8,680,782	\$107,252	\$1,517,365	\$10,367,086
	\$278,236	\$2,804,167 \$4,670,310	\$398,276 \$340,470	\$501,965 \$1,092,174	\$3,982,644 \$6,193,705
Bait (natural bait only) Groceries bought in stores	\$90,732 \$4,033,935	\$4,670,319 \$24,991,887	\$340,479 \$9,114,541	\$9,833,830	\$6,193,705 \$47,974,193
Restaurants, bars, and take-out	\$4,492,849	\$9,568,200	\$12,757,124	\$5,899,314	\$32,717,487
Overnight accommodations	\$8,277,521	\$9,675,652	\$21,482,717	\$5,768,691	\$45,204,580
Souvenirs and gifts	\$1,045,611	\$1,523,813	\$6,796,946	\$3,866,980	\$13,233,350
Other entertainment	\$934,167	\$3,375,015	\$2,380,222	\$1,256,665	\$7,946,070
Other	\$6,847	\$81,015	\$386,423	\$6,930	\$481,215
Sub-Total	\$55,634,927	\$126,254,092	\$164,742,291	\$71,281,770	\$417,913,080
Bastana Fam. III			ATE ATE	<b>644454</b>	<b>***</b>
<u>Package Expenditures</u> *Package expenditures refer specifically to tr	NA*	NA*	\$75,978,972	\$14,151,584	\$90,130,556

 $<sup>*</sup>Package\ expenditures\ refer\ specifically\ to\ travel\ packages\ purchased\ by\ nonresidents\ prior\ to\ departing\ on\ their\ trip\ to\ Alaska.$ 

#### **Economic Contributions**

Expenditures by anglers generate additional economic benefits throughout the Southcentral Alaska economy. Multiplier effects have been estimated separately for trip spending and package spending, and for equipment and real estate spending combined. All economic contributions have been estimated separately for residents and nonresidents. The direct effects that are shown in the following tables reflect the economic activity associated with angler spending captured within the regional economy (i.e. consumer retail spending less the value of goods imported from outside of the regional economy). For that reason, the direct output values in the tables that follow are likely to be less than the reported angler spending for any specific category.

The \$988.6 million of spending by anglers in the Southcentral region in 2007 generated \$239.8 million of income to 7,897 full and part time employees and proprietors who worked in the Southcentral businesses whose products were purchased by anglers (Table 44). Spending by nonresidents accounted for 4,329 of the jobs and \$130.7 million of income (Table 44). In addition to the economic activity directly attributable to spending by anglers are the multiplier effects (indirect and induced effects) of that consumer spending. The indirect effect results from the increased economic activity among businesses that supply those businesses selling directly to the anglers. For example, the guide that sells directly to anglers, in turn, stimulates additional activity among the businesses that supply the guide's operations. The induced effect is the economic activity produced by household spending of income earned by workers in those businesses that are impacted by both the direct and indirect effects. Including both direct and multiplier effects, the \$988.6 million of spending in the region by anglers produced \$386.5 million of income and supported 11,535 full and part-time jobs (Table 44).

Table 44.–Southcentral Region economic contributions of ALL spending for sportfishing, by residency, 2007.

	Resident	Nonresident	All
	Anglers	Anglers	Anglers
Direct effects			
Output	\$322,078,119	\$374,524,615	\$696,602,734
Income	\$109,015,231	\$130,743,922	\$239,759,153
Employment (jobs)	3,569	4,329	7,897
Multiplier effects			
Output	\$212,759,887	\$256,182,892	\$468,942,779
Income	\$65,814,765	\$80,889,815	\$146,704,580
Employment (jobs)	1,601	2,036	3,637
Total effects			
Output	\$534,838,006	\$630,707,507	\$1,165,545,513
Income	\$174,829,996	\$211,633,737	\$386,463,733
Employment (jobs)	5,170	6,365	11,535

The relationship between the direct effect (i.e. directly attributable to the spending by anglers) and the total economic activity that it creates is commonly presented in the form of a multiplier. Typically, smaller regional economies will exhibit smaller multipliers due to the reduced opportunities to retain economic activity within the region. In the case of Southcentral sportfishing, the output multiplier of 1.67 (total effect divided by direct effect) means every dollar of activity stimulated by angler spending creates an additional \$0.67 of economic activity elsewhere in the economy (this is compared to a statewide output multiplier of 1.62). The

slightly larger regional output multiplier suggests that expenditures within this region are slightly concentrated in sectors that have a higher multiplier. In similar fashion, the income and employment multipliers are 1.61 and 1.46, respectively. This means that for every dollar of income paid to workers in businesses that sell directly to anglers and for every job in a business that sells directly to anglers there is an additional \$0.61 of income and 0.46 additional jobs in other businesses throughout the region that are supported by angler spending.

Employment effects are of particular importance to the state and local economy. The jobs supported by angler expenditures are shown in Table 45 categorized by the industry in which the jobs occur. The jobs directly supported by angler spending largely reflect the types of expenditures made by anglers – trip expenditures for food, bait, lodging and guide services, maintenance of real estate used for sportfishing, and retail purchases of fishing and related equipment. Sector 11 in the following table includes farming and commercial fishing and hunting and is directly affected primarily through anglers' purchases of groceries and bait. The broader distribution of jobs indirectly supported by angler spending through the multiplier effect is the result of inter-industry trade flows and the expenditures of household income that comes from angler-supported jobs.

Table 45.–Employment (jobs) directly and indirectly supported by angler expenditures in the Southcentral region, by industry in which the employment occurs, 2007.

NAICS Industry Categories	Direct Effects	Multiplier Effects	Total Effects
11 Agriculture, forestry, fishing & hunting	145	68	213
21 Mining	3	59	62
22 Utilities	-	34	34
23 Construction	695	40	736
31-33 Manufacturing	133	118	251
42 Wholesale trade	302	104	406
48-49 Transportation & warehousing	231	210	440
44-45 Retail trade	1,964	526	2,490
51 Information	-	75	75
52 Finance & insurance	-	137	137
53 Real estate & rental	308	325	634
54 Professional- scientific & technical services	-	280	280
55 Management of companies	-	42	42
56 Administrative & waste services	3	216	219
61 Educational services	-	51	51
62 Health & social services	-	436	436
71 Arts- entertainment & recreation (e.g., guides)	2,330	130	2,459
72 Accommodation & food services	1,567	352	1,919
81 Other services	173	271	445
92 Government and public administration	44	163	207
Total Employment Impact	7,897	3,638	11,535

Table 46 presents a breakdown by residency of the economic contributions that derive from anglers' spending on equipment and real estate in the Southcentral region (a subset of total spending). Including the direct and multiplier effects, the \$357.2 million spent on equipment and \$123.3 million spent on real estate in Southcentral (Table 40) supported 3,317 jobs and provided \$132.2 million of income. Spending on equipment and real estate by residents supported 2,330 jobs and provided \$84.2 million of income while nonresident angler spending on these items supported 987 jobs and \$48.0 million of income.

Table 46.–Economic contributions of expenditures for sportfishing EQUIPMENT and REAL ESTATE in the Southcentral region, by residency, 2007.

	Resident	Nonresident	All
	Anglers	Anglers	Anglers
Direct effects			
Output	\$146,123,710	\$82,846,695	\$228,970,405
Income	\$56,592,405	\$31,248,169	\$87,840,574
Employment (jobs)	1,597	548	2,145
Multiplier effects			
Output	\$86,806,104	\$51,071,762	\$137,877,866
Income	\$27,641,437	\$16,772,094	\$44,413,531
Employment (jobs)	732	439	1,172
Total effects			
Output	\$232,929,814	\$133,918,457	\$366,848,271
Income	\$84,233,842	\$48,020,263	\$132,254,105
Employment (jobs)	2,330	987	3,317

Table 47 shows the economic contributions from spending on trips and packages, broken down by residency, use of guides, and type of water fished. Similar to angler spending in Southeast Alaska, the largest economic contributions come from nonresident anglers fishing with the services of a guide. Including the direct and multiplier effects, nonresident spending on guided fishing supported 4,197 jobs that provided \$122.7 million of income. That represents 51.1% and 48.3% of all jobs and income supported by sportfishing anglers in the region, respectively. Additional detailed estimates of the industry impacts in Southcentral Alaska due to angler spending are presented in Appendices K and L.

Table 47.—Southcentral Region economic contributions of combined TRIP-RELATED and PACKAGE spending for sportfishing, by residency, use of guides, and type of water.

	RESIDENT		NONRE	SIDENT	T0	TAL*	ALL	
	Guided	Unguided	Guided	Unguided	Resident	Nonresident	ANGLERS	
FRESHWATER ANGLER	RS							
Direct effects								
Output	\$26,235,805	\$63,718,045	\$116,412,556	\$57,793,487	\$89,953,850	\$174,206,043	\$264,159,893	
Income	\$8,089,164	\$18,556,535	\$39,082,125	\$20,849,225	\$26,645,699	\$59,931,350	\$86,577,049	
Employment	367	606	1,592	645	973	2,237	3,210	
Multiplier effects								
Output	\$18,707,451	\$46,090,614	\$83,691,281	\$41,819,471	\$64,798,065	\$125,510,752	\$190,308,817	
Income	\$6,028,334	\$13,691,946	\$26,697,665	\$12,673,171	\$19,720,280	\$39,370,836	\$59,091,116	
Employment	144	305	658	314	449	972	1,421	
Total effects								
Output	\$44,943,256	\$109,808,659	\$200,103,837	\$99,612,958	\$154,751,915	\$299,716,795	\$454,468,710	
Income	\$14,117,498	\$32,248,481	\$65,779,790	\$33,522,396	\$46,365,979	\$99,302,186	\$145,668,165	
Employment	511	911	2,251	958	1,422	3,209	4,631	
CALTIMATED ANGLED	•							
SALTWATER ANGLERS Direct effects	<u>&gt;</u>							
	¢27.457.707	¢E0 242 772	¢102 01E 40E	¢12 EE4 102	¢04 000 EE0	¢117 471 077	\$203,472,436	
Output	\$27,657,787	\$58,342,772	\$103,915,685	\$13,556,192	\$86,000,559	\$117,471,877		
Income	\$8,656,289	\$17,120,838	\$35,081,095	\$4,483,308	\$25,777,127	\$39,564,403	\$65,341,530	
Employment	403	596	1,393	151	998	1,544	2,542	
Multiplier effects	¢17.07F.424	¢42.200.204	¢/0.701.0/4	¢0 070 214	¢/1 1FF 710	¢70 /00 270	¢140.7E/ 00/	
Output	\$17,875,434	\$43,280,284	\$69,721,064	\$9,879,314	\$61,155,718	\$79,600,378	\$140,756,096	
Income	\$5,669,935	\$12,783,113	\$21,808,842	\$2,938,043	\$18,453,048	\$24,746,885	\$43,199,933	
Employment	140	280	554	72	420	625	1,045	
Total effects	<b>#45 522 224</b>	¢101 /22 0E/	¢172 /2/ 740	¢22.425.50/	#147.4F/ 077	¢107.070.0FF	#244 220 F22	
Output	\$45,533,221	\$101,623,056	\$173,636,749	\$23,435,506	\$147,156,277	\$197,072,255	\$344,228,532	
Income	\$14,326,224	\$29,903,951	\$56,889,937	\$7,421,351	\$44,230,175	\$64,311,288	\$108,541,463	
Employment	543	875	1,947	223	1,418	2,169	3,587	
ALL ANGLERS								
Direct effects								
Output	\$53,893,592	\$122,060,817	\$220,328,241	\$71,349,679	\$175,954,409	\$291,677,920	\$467,632,329	
Income	\$16,745,453	\$35,677,373	\$74,163,220	\$25,332,533	\$52,422,826	\$99,495,753	\$151,918,579	
Employment	769	1,202	2,985	796	1,971	3,781	5,752	
Multiplier effects								
Output	\$36,582,885	\$89,370,898	\$153,412,345	\$51,698,785	\$125,953,783	\$205,111,130	\$331,064,913	
Income	\$11,698,269	\$26,475,059	\$48,506,507	\$15,611,214	\$38,173,328	\$64,117,721	\$102,291,049	
Employment	284	584	1,212	385	869	1,597	2,466	
Total effects								
Output	\$90,476,477	\$211,431,715	\$373,740,586	\$123,048,464	\$301,908,192	\$496,789,050	\$798,697,242	
Income	\$28,443,722	\$62,152,432	\$122,669,727	\$40,943,747	\$90,596,154	\$163,613,474	\$254,209,628	
Employment	1,054	1,786	4,197	1,181	2,840	5,378	8,218	

<sup>\*</sup> Total guided and unguided trip related and package spending.

The economic activity directly and indirectly generated by sportfishing also produces tax revenues for local, state and federal governments. The IMPLAN model produces generalized estimates of tax revenues that are based on existing statewide ratios of output, income and employment to all tax revenues. It is estimated that sportfishing expenditures in Southcentral Alaska in 2007 provided \$90.8 million and \$89.5 million of state/local and federal tax revenues, respectively (Table 48). Slightly more than one-half of the tax revenues (51.9%) were the result of spending by nonresident anglers.

Table 48.—Tax revenues generated in the Southcentral Region from the economic contributions of sportfishing, 2007.

	State and Local Tax Revenues	Federal Tax Revenues	Total tax Revenues
RESIDENT ANGLERS			
Trip Expenditures (non-package)	\$25,622,563	\$22,157,351	\$47,779,914
Package Expenditures	\$0	\$0	\$0
Equipment & Real Estate Expenditures	\$19,989,967	\$18,793,317	\$38,783,285
Subtotal	\$45,612,530	\$40,950,668	\$86,563,199
NONRESIDENT ANGLERS			
Trip Expenditures (non-package)	\$27,922,445	\$28,050,063	\$55,972,508
Package Expenditures	\$10,432,039	\$10,252,542	\$20,684,581
Equipment & Real Estate Expenditures	\$6,832,617	\$10,202,363	\$17,034,979
Subtotal	\$45,187,101	\$48,504,967	\$93,692,068
ALL ANGLERS			
Trip Expenditures (non-package)	\$53,545,007	\$50,207,414	\$103,752,422
Package Expenditures	\$10,432,039	\$10,252,542	\$20,684,581
Equipment & Real Estate Expenditures	\$26,822,584	\$28,995,680	\$55,818,264
Total	\$90,799,631	\$89,455,636	\$180,255,267

#### INTERIOR REGION

This section presents the detailed expenditures and economic contributions for sportfishing in the Interior Region. The spending and contribution totals in the following Interior Region tables do <u>not</u> include the cost of fishing licenses and stamps. This expenditure is not included in the subsequent regional tables because licenses and stamps are purchased from state government and cannot be ascribed to a particular region. However, it is included in the statewide analysis (Table 20).

# **Angler Days**

A total 202,750 days of sportfishing occurred in the Interior region in 2007, and over three-fourths of the angler days fished (154,303) were taken by Alaska residents. Overall, nearly 9 of every 10 days in the Interior were unguided, although nonresident anglers (27%) were more likely than residents (5%) to take guided fishing trips in the region. There was almost no saltwater sportfishing in the Interior region except for a few days reported by nonresidents (Table 49).

Table 49.—Interior Region angler days, by residency, water type, and guided/unguided\*,2007.

	RESIDENT		NONRES	SIDENT	ALL ANG	ALL ANGLERS	
	Angler- Days	%	Angler- Days	%	Angler- Days	%	
Freshwater				•			
Guided	7,493	4.9%	13,184	27.3%	20,677	10.2%	
Unguided	146,810	95.1%	35,143	72.7%	181,953	89.8%	
Total	154,303	100.0%	48,327	100.0%	202,630	100.0%	
Saltwater							
Guided	0	0.0%	114	95.0%	114	95.0%	
Unguided	0	0.0%	6	5.0%	6	5.0%	
Total	0	0.0%	120	100.0%	120	100.0%	
Total Guided	7,493	4.9%	13,298	27.4%	20,791	10.3%	
Total Unguided	146,810	95.1%	35,149	72.6%	181,959	89.7%	
TOTAL	154,303	100.0%	48,447	100.0%	202,750	100.0%	

Source: 2007 Statewide Harvest Survey, Alaska Department of Fish and Game.

<sup>\*</sup>Totals reported here do not exactly match published statewide and regional totals from the 2007 SWHS due to the fact that it is not possible to identify the water type or guided/unguided status of some SWHS survey responses. The totals reported in this table reflect the summary of all days fished within a region that could be assigned to a specific residency, water type, and guided/unguided category. Approximately 4,177 days fished (0.16% of 2.5 million days) could not be assigned to a strata category and thus were not included in these totals.

### **Expenditures**

Where anglers spend their money is not necessarily tied to where they fish or where they live. In actuality, an angler on a one-day or multi-day fishing trip might start from their home, purchase fuel, food, or other supplies on the way to their destination, and then make additional purchases such as bait, ice, or guide services, closer to where they fish. The following expenditure tables take this into account by reporting total expenditures in the Interior region made by all Alaska resident anglers, regardless of where they fished or the region where they live, and by all nonresident anglers who live outside of Alaska regardless of where they fished. Resident anglers spent \$67.1 million for sportfishing in the Interior Region in 2007, while nonresident anglers spent approximately \$33.5 million for a combined total of \$100.6 million for trips, packages. equipment and real estate (regional totals do not include the purchase of licenses and stamps.). Thirty-seven percent (\$36.9 million) of the total spending in Interior region is non-package trip spending. When combined with fishing packages, all trip-related spending accounts for 44.2% (\$44.5 million) of all sportfishing expenditures in the region. Spending on fishing and fishing-related equipment (\$50.4 million) represents one-half (50.1%) of all spending in the region, while expenditures for maintenance and construction of real estate used primarily for sportfishing represents 5.6% of the total (Table 50).

Table 50.-Interior Region spending for sportfishing, by expenditure category and residency, 2007.

	Resident Anglers		Nonresident Anglers		All Anglers	
Expenditures	Spending %		Spending	%	Spending	%
Trip	\$15,472,561	23.1%	\$21,477,883	64.2%	\$36,950,444	36.7%
Package	\$0	0.0%	\$7,522,641	22.5%	\$7,522,641	7.5%
Equipment	\$48,915,821	72.9%	\$1,499,781	4.5%	\$50,415,603	50.1%
Real Estate	\$2,704,345	4.0%	\$2,967,604	8.9%	\$5,671,949	5.6%
Total	\$67,092,727	100.0%	\$33,467,910	100.0%	\$100,560,637	100.0%

<sup>\*</sup>Package expenditures refer specifically to travel packages purchased by nonresidents prior to departing on their trip to Alaska.

Similar to statewide spending, more money was spent in the Interior region by residents (\$67.1 million) than nonresidents (\$33.5 million). Nearly three-fourths of resident spending was associated with purchases of equipment used for fishing (\$48.9 million), followed by trip expenditures (\$15.5 million), and fishing-related real estate maintenance and construction (\$2.7 million). Most spending by nonresidents was trip-related (\$21.5 million) followed by pre-purchased packages (\$7.5 million). Nonresident anglers spent \$3.0 million on real estate and \$1.5 million on fishing equipment (Table 50). It should be noted that all spending refers specifically to purchases that were made in the Interior region, therefore it is not surprising that equipment expenditures by nonresidents were disproportionately lower than residents since anglers typically purchase most of their fishing tackle and equipment closer to where they live.

Table 51 presents a summary of the average spending that took place in the Interior region for the major expenditure categories. Trip and package spending is based on total spending in the region and is averaged across all days of fishing that took place in the region, regardless of where individual resident anglers lived or fished. Due to the durable nature of equipment and its use across many trips, equipment and real estate expenditures are shown as the average spent in the region across all resident and nonresident anglers in Alaska Overall, the average angler fishing in Alaska spent of \$219.35 in the Interior per day of fishing for all trip and package related purchases (fuel, groceries, bait, lodging, restaurants, etc.). The average angler spent \$118.34 per year in the Interior region on fishing and related equipment and real estate (rods, reels, boats, motors, clothing, maintenance, etc.; Table 51).

Table 51.-Average expenditures in the Interior region made by Alaska resident and nonresident anglers, 2007\*.

	Resident Anglers	Nonresident Anglers	All Anglers
		\$ per angler-day	
Trip Expenditures	\$100.27	\$443.33	\$182.25
Package Expenditures	NA**	\$155.28	\$37.10
Total trip spending	\$100.27	\$598.60	\$219.35
	anno	ual \$ per licensed ar	ngler
Equipment Expenditures	\$257.07	\$5.60	\$106.41
Real Estate Expenditures	\$14.19	\$10.42	\$11.93
Total equipment & real estate spending	\$271.26	\$16.01	\$118.34

<sup>\*</sup>Estimates of average spending for detailed trip and equipment categories are presented in Appendix L.

As with total spending, nonresidents, on average, spent more per day on trip-related purchases in the Interior region than Alaska residents, (\$598.60 compared to \$100.27). Conversely, the average Alaska resident angler spent more in the Interior for equipment than the average nonresident (\$271.26 compared to \$16.01). The average resident and nonresident angler spent approximately the same small amount in the region on real estate used for fishing (approximately \$10 to \$15 per year).

Anglers make a wide range of purchases to support their fishing activity including trip-related expenditures, fishing tackle and other equipment, and expenses related to real estate that they use for fishing. Trip-related expenses refer to spending for temporary or consumable goods and services that anglers make while on a particular fishing trip. These range from food and lodging to travel expenses (e.g., fuel, air taxis, etc.), groceries, bait, and derby tickets. The full list of trip items and the amount spent by resident and nonresident anglers in Interior Alaska is presented in Table 52.

<sup>\*\*</sup>Package expenditures refer specifically to purchases of travel packages made by nonresidents prior to departing on their trip to Alaska.

Some nonresident anglers opt to pre-purchase a packaged fishing expedition from one of the many outfitters, guides and lodges in Alaska. Such packages typically offer a range of services for one price including transportation, guides, food and lodging. The survey of nonresidents asked anglers to report spending for any packages that they may have purchased and to indicate which amenities were included in the package.

Equipment expenditures refer to a list of tackle and other items that are used only for fishing, plus other equipment that might be used in other pursuits in addition to fishing. The details of total spending in the Interior region for these items is listed in the bottom half of Table 52. The dollar figures represent total amounts spent in 2007 on fishing equipment and only that portion of multi-use equipment that anglers reported was used specifically for fishing.

The real estate amounts shown in Table 52 shows the annual costs of construction and maintenance that Interior anglers reported was associated with real estate that is used primarily for sportfishing purposes. These numbers do not include any spending that anglers may have made to purchase or lease real estate used for sportfishing. An effort was made in the survey to capture lease/purchase spending for real estate, but the information that was collected was deemed too unreliable to provide an accurate estimation of that spending and is not included here.

The detailed breakdown of total spending in all categories by resident and nonresident anglers in Table 52 shows the differences in their specific purchases. Generally, nonresidents spent more than residents on trip-related items. However, in the Interior region, residents spent considerably more than nonresidents on those items associated with every outing, especially fuel and groceries. These are expenditures required of even one-day trips that are more typical of resident anglers. Surprisingly, residents also spent more on fish processing. Nonresidents spent considerably more than residents on those items associated with extended travel (e.g., airfare and other travel, lodging, restaurant meals, gifts/souvenirs) and fishing related expenses that they cannot reasonably accommodate on their own (guide fees, processing, equipment rentals). Since most people purchase equipment closer to where they live, and vacationers typically do not buy a significant amount of equipment while traveling, it is not surprising that residents outspent nonresidents in nearly every equipment category except the miscellaneous "other" equipment category.

Further breakdowns of trip and package spending are presented in Table 53 which shows total spending by residency, type of water fished, and use of guides. This breakdown shows that unguided fishing accounted for approximately 70% of all trip-related spending in the region and that total trip-related spending by residents and nonresidents were roughly the same (approximately \$9 million each). Guided fishing accounted for \$6.6 million. Due to a small sample of saltwater anglers in this region, reliable estimates of spending and impacts are not reported. The SWHS reported that there were only 120 anglers-days of saltwater fishing in the entire region compared to 202,750 total fishing days, rendering any spending by saltwater anglers an insignificant part of the total economic contribution. Similarly, few residents of the Interior region used guides so there is an insufficient number of observations in the sample to report a reliable estimate of spending or impacts and their contribution is likely quite small.

The multi-purpose nature of many equipment items precludes a similarly detailed breakdown of equipment or real estate spending in the Interior Region for this report. Detailed estimates of total and average spending are presented in Appendices I and J.

Table 52.-Detailed spending for sportfishing in Interior Alaska, by residency, 2007.

	Resident	Nonresident	Total
Trip Expenditures			
Fuel	\$7,696,662	\$1,882,068	\$9,578,730
Guide	\$1,070,555	\$4,932,657	\$6,003,212
Air	\$881,467	\$1,775,149	\$2,656,617
Travel	\$4,460	\$4,732,537	\$4,736,998
Process	\$195,395	\$72,790	\$268,185
Rentals	\$34,072	\$508,480	\$542,552
Derby	\$1,959	\$39,918	\$41,876
Dock	\$128,252	\$12,602	\$140,854
Ice	\$225,413	\$236,946	\$462,359
Bait	\$180,648	\$56,101	\$236,749
Groceries	\$3,121,448	\$1,022,687	\$4,144,134
Meals	\$1,112,718	\$2,059,288	\$3,172,006
Lodging	\$491,909	\$1,688,998	\$2,180,908
Gifts	\$66,028	\$1,957,933	\$2,023,960
Amusements	\$219,606	\$475,970	\$695,576
Other	\$41,970	\$23,759	\$65,730
Sub-Total	\$15,472,561	\$21,477,883	\$36,950,444
Package Expenditures	\$0	\$7,522,641	\$7,522,641
Equipment Expenditures			
Rods, reels, & components	\$1,861,586	\$199,840	\$2,061,425
Fishing tackle	\$1,504,407	\$328,501	\$1,832,908
Tackle boxes	\$246,910	\$17,352	\$264,263
Depth finders, fish finders, etc.	\$510,137	\$0	\$510,137
Landing nets, dipnets & gillnets	\$246,283	\$0 \$0	\$246,283
Misc. fishing equip	\$474,119	\$84,118	\$558,237
Shellfish fishing equip	\$140,760	\$3,151	\$143,912
Fish mounting (taxidermy)	\$0	\$0	\$0
Books and magazines	\$170,359	\$19,288	\$189,647
Items to store/preserve fish	\$496,710	\$26,834	\$523,544
Coolers, fish boxes	\$315,319	\$75,245	\$390,564
Clothing	\$513,519 \$514,614	\$134,926	\$649,539
Boots, shoes, waders	\$425,755	\$84,663	\$510,418
Life jackets, survival suits	\$253,493	\$15,766	\$269,259
Boats, canoes, other watercraft	\$4,340,381	\$15,760	\$4,340,381
Boat motors	\$1,469,616	\$0 \$0	\$1,469,616
		\$0 \$0	
Trailers, hitches, and acc	\$480,518 \$1,340,484	\$7,879	\$480,518 \$1,357,363
Other boat parts and acc	\$1,349,484		\$1,357,363
Bear spray, bug spray, etc	\$194,704 \$457,695	\$43,845	\$238,549 \$457,695
Firearms	\$457,685 \$590,774	\$0 \$73,782	\$457,685 \$662,552
Cameras, binoculars	\$589,771 \$415,526		\$663,553 \$430,304
Tents, backpacks, sleeping bags	\$415,526 \$4.118.086	\$14,868	\$430,394
Camping trailer	\$4,118,086	\$0 \$52.263	\$4,118,086
Other camping equip	\$318,817	\$52,263 \$34,540	\$371,080 \$18,764,505
Vehicles (trucks,SUVs, etc)	\$18,733,046	\$31,549	\$18,764,595
ATV a province has	\$474,375 \$6,440,441	\$235,897	\$710,272
ATVs, snowmachines	\$6,440,441	\$0 \$0.054	\$6,440,441
Boat/camper registrations	\$594,588 \$4,772,707	\$2,954	\$597,542
Vehicle, boat or airplane repair	\$1,773,797	\$47,061	\$1,820,858
Other Sub-Total	\$4,533 <b>\$48,915,821</b>	\$0 \$1,499,781	\$4,533 <b>\$50,415,603</b>
Pool Fototo Evpandituras			· •
Real Estate Expenditures	¢762.004	¢202.020	¢4 456 004
Real estate repairs	\$762,904 \$1,044,444	\$393,930	\$1,156,834 \$4,545,445
Real estate construction	\$1,941,441	\$2,573,674	\$4,515,115
Sub-Total	\$2,704,345	\$2,967,604	\$5,671,949
TOTAL SPENDING	\$67,092,727	\$33,467,910	\$100,560,637

<sup>\*</sup>Package expenditures refer specifically to purchases of travel packages made by nonresidents prior to departing on their trip to Alaska.

Table 53.—Detailed total TRIP and PACKAGE spending in the Interior Region, by residency, use of guides, and type of water fished.

Guide and charter fees       \$78,951       \$2,407,661       \$79         Airfare to and from Alaska       \$0       \$879,366       \$32         Travel within Alaska       \$4,460       \$134,634       \$4,59         Fish processing & shipping       \$174,931       \$25,148       \$         Rentals (boats, equipment, etc.)       \$34,072       \$328,884       \$8         Derby tickets       \$1,959       \$0       \$3         Boat launch and dock fees       \$119,396       \$389       \$         Ice       \$164,963       \$11,444       \$20         Bait (natural bait only)       \$151,294       \$6,095       \$4         Groceries bought in stores       \$2,233,726       \$364,512       \$15         Restaurants, bars, and take-out       \$728,015       \$552,272       \$1,07         Overnight accommodations       \$340,537       \$558,771       \$32         Souvenirs and gifts       \$51,559       \$575,876       \$56         Other entertainment       \$84,211       \$168,639       \$23	ded ANGLERS 27,184 \$6,421,919
Trip Expenditures           Fuel and oil         \$4,729,944         \$601,553         \$72           Guide and charter fees         \$78,951         \$2,407,661         \$79           Airfare to and from Alaska         \$0         \$879,366         \$32           Travel within Alaska         \$4,460         \$134,634         \$4,59           Fish processing & shipping         \$174,931         \$25,148         \$           Rentals (boats, equipment, etc.)         \$34,072         \$328,884         \$8           Derby tickets         \$1,959         \$0         \$3           Boat launch and dock fees         \$119,396         \$389         \$           Ice         \$164,963         \$11,444         \$20           Bait (natural bait only)         \$151,294         \$6,095         \$4           Groceries bought in stores         \$2,233,726         \$364,512         \$15           Restaurants, bars, and take-out         \$728,015         \$552,272         \$1,07           Overnight accommodations         \$340,537         \$558,771         \$32           Souvenirs and gifts         \$51,559         \$575,876         \$56           Other         \$0         \$9,844         \$	7.184 <b>\$6.421.919</b>
Fuel and oil         \$4,729,944         \$601,553         \$72           Guide and charter fees         \$78,951         \$2,407,661         \$79           Airfare to and from Alaska         \$0         \$879,366         \$32           Travel within Alaska         \$4,460         \$134,634         \$4,59           Fish processing & shipping         \$174,931         \$25,148         \$           Rentals (boats, equipment, etc.)         \$34,072         \$328,884         \$8           Derby tickets         \$1,959         \$0         \$3           Boat launch and dock fees         \$119,396         \$389         \$           Ice         \$164,963         \$11,444         \$20           Bait (natural bait only)         \$151,294         \$6,095         \$4           Groceries bought in stores         \$2,233,726         \$364,512         \$15           Restaurants, bars, and take-out         \$728,015         \$552,272         \$1,07           Overnight accommodations         \$340,537         \$558,771         \$32           Souvenirs and gifts         \$51,559         \$575,876         \$56           Other         \$0         \$9,844         \$	7.184 <b>\$6.421.919</b>
Guide and charter fees       \$78,951       \$2,407,661       \$79         Airfare to and from Alaska       \$0       \$879,366       \$32         Travel within Alaska       \$4,460       \$134,634       \$4,59         Fish processing & shipping       \$174,931       \$25,148       \$         Rentals (boats, equipment, etc.)       \$34,072       \$328,884       \$8         Derby tickets       \$1,959       \$0       \$3         Boat launch and dock fees       \$119,396       \$389       \$         Ice       \$164,963       \$111,444       \$20         Bait (natural bait only)       \$151,294       \$6,095       \$4         Groceries bought in stores       \$2,233,726       \$364,512       \$15         Restaurants, bars, and take-out       \$728,015       \$552,272       \$1,07         Overnight accommodations       \$340,537       \$558,771       \$32         Souvenirs and gifts       \$51,559       \$575,876       \$56         Other       \$0       \$9,844       \$	7.184 <b>\$6.421.919</b>
Airfare to and from Alaska Travel within Alaska Fish processing & shipping Rentals (boats, equipment, etc.) Derby tickets Boat launch and dock fees Ice Bait (natural bait only) Groceries bought in stores Restaurants, bars, and take-out Overnight accommodations Souvenirs and gifts Other Other  Airfare to and from Alaska \$32 \$4,460 \$1,14,931 \$25,148 \$\$ \$1,959 \$0 \$32,884 \$8 \$1,959 \$0 \$33,950 \$11,444 \$20 \$151,294 \$6,095 \$4 \$71,294 \$6,095 \$4 \$151,294 \$56,095 \$15 \$15 \$15 \$15 \$15 \$15 \$15 \$15 \$15 \$1	
Travel within Alaska       \$4,460       \$134,634       \$4,59         Fish processing & shipping       \$174,931       \$25,148       \$         Rentals (boats, equipment, etc.)       \$34,072       \$328,884       \$8         Derby tickets       \$1,959       \$0       \$3         Boat launch and dock fees       \$119,396       \$389       \$         Ice       \$164,963       \$11,444       \$20         Bait (natural bait only)       \$151,294       \$6,095       \$4         Groceries bought in stores       \$2,233,726       \$364,512       \$15         Restaurants, bars, and take-out       \$728,015       \$552,272       \$1,07         Overnight accommodations       \$340,537       \$558,771       \$32         Souvenirs and gifts       \$51,559       \$575,876       \$56         Other entertainment       \$84,211       \$168,639       \$23         Other       \$0       \$9,844       \$	99,496 <b>\$3,780,477</b>
Fish processing & shipping       \$174,931       \$25,148       \$         Rentals (boats, equipment, etc.)       \$34,072       \$328,884       \$8         Derby tickets       \$1,959       \$0       \$3         Boat launch and dock fees       \$119,396       \$389       \$         Ice       \$164,963       \$11,444       \$20         Bait (natural bait only)       \$151,294       \$6,095       \$4         Groceries bought in stores       \$2,233,726       \$364,512       \$15         Restaurants, bars, and take-out       \$728,015       \$552,272       \$1,07         Overnight accommodations       \$340,537       \$558,771       \$32         Souvenirs and gifts       \$51,559       \$575,876       \$56         Other entertainment       \$84,211       \$168,639       \$23         Other       \$0       \$9,844       \$	21,688 <b>\$1,201,054</b>
Rentals (boats, equipment, etc.)       \$34,072       \$328,884       \$8         Derby tickets       \$1,959       \$0       \$3         Boat launch and dock fees       \$119,396       \$389       \$         Ice       \$164,963       \$11,444       \$20         Bait (natural bait only)       \$151,294       \$6,095       \$4         Groceries bought in stores       \$2,233,726       \$364,512       \$15         Restaurants, bars, and take-out       \$728,015       \$552,272       \$1,07         Overnight accommodations       \$340,537       \$558,771       \$32         Souvenirs and gifts       \$51,559       \$575,876       \$56         Other entertainment       \$84,211       \$168,639       \$23         Other       \$0       \$9,844       \$	
Derby tickets       \$1,959       \$0       \$3         Boat launch and dock fees       \$119,396       \$389       \$         Ice       \$164,963       \$11,444       \$20         Bait (natural bait only)       \$151,294       \$6,095       \$4         Groceries bought in stores       \$2,233,726       \$364,512       \$15         Restaurants, bars, and take-out       \$728,015       \$552,272       \$1,07         Overnight accommodations       \$340,537       \$558,771       \$32         Souvenirs and gifts       \$51,559       \$575,876       \$56         Other entertainment       \$84,211       \$168,639       \$23         Other       \$0       \$9,844       \$	<b>\$2,938 \$203,018 \$9,838 \$452,793</b>
Boat launch and dock fees       \$119,396       \$389       \$         Ice       \$164,963       \$11,444       \$20         Bait (natural bait only)       \$151,294       \$6,095       \$4         Groceries bought in stores       \$2,233,726       \$364,512       \$15         Restaurants, bars, and take-out       \$728,015       \$552,272       \$1,07         Overnight accommodations       \$340,537       \$558,771       \$32         Souvenirs and gifts       \$51,559       \$575,876       \$56         Other entertainment       \$84,211       \$168,639       \$23         Other       \$0       \$9,844       \$	\$6,600 <b>\$32,559</b>
Ice       \$164,963       \$11,444       \$20         Bait (natural bait only)       \$151,294       \$6,095       \$4         Groceries bought in stores       \$2,233,726       \$364,512       \$15         Restaurants, bars, and take-out       \$728,015       \$552,272       \$1,07         Overnight accommodations       \$340,537       \$558,771       \$32         Souvenirs and gifts       \$51,559       \$575,876       \$56         Other entertainment       \$84,211       \$168,639       \$23         Other       \$0       \$9,844       \$	\$9,204 <b>\$132,676</b>
Bait (natural bait only)       \$151,294       \$6,095       \$4         Groceries bought in stores       \$2,233,726       \$364,512       \$15         Restaurants, bars, and take-out       \$728,015       \$552,272       \$1,07         Overnight accommodations       \$340,537       \$558,771       \$32         Souvenirs and gifts       \$51,559       \$575,876       \$56         Other entertainment       \$84,211       \$168,639       \$23         Other       \$0       \$9,844       \$	94,823 <b>\$400,633</b>
Groceries bought in stores       \$2,233,726       \$364,512       \$15         Restaurants, bars, and take-out       \$728,015       \$552,272       \$1,07         Overnight accommodations       \$340,537       \$558,771       \$32         Souvenirs and gifts       \$51,559       \$575,876       \$56         Other entertainment       \$84,211       \$168,639       \$23         Other       \$0       \$9,844       \$	4,594 <b>\$208,881</b>
Overnight accommodations       \$340,537       \$558,771       \$32         Souvenirs and gifts       \$51,559       \$575,876       \$56         Other entertainment       \$84,211       \$168,639       \$23         Other       \$0       \$9,844       \$	\$8,422 <b>\$2,966,941</b>
Souvenirs and gifts       \$51,559       \$575,876       \$56         Other entertainment       \$84,211       \$168,639       \$23         Other       \$0       \$9,844       \$	7,845 <b>\$2,439,167</b>
Other entertainment         \$84,211         \$168,639         \$23           Other         \$0         \$9,844         \$	22,463 <b>\$1,255,187</b>
Other \$0 \$9,844 \$	\$3,590 <b>\$1,191,024</b>
	<b>\$581,219</b>
Sub-Total \$8,898,018 \$6,625,089 \$9,19	\$3,983 <b>\$13,827</b>
	1,758 \$26,015,588
Package Expenditures NA* \$2,070,725 \$1,16	54,897 <b>\$3,235,622</b>
SALTWATER ANGLERS	,551 <b>\$</b> 5,255,022
Trip Expenditures	
Fuel and oil	
Guide and charter fees	
Airfare to and from Alaska	
Travel within Alaska	
Fish processing & shipping	
Rentals (boats, equipment, etc.)	
Derby tickets	
Boat launch and dock fees	
Ice	
Bait (natural bait only)	
Groceries bought in stores Restaurants, bars, and take-out	
Overnight accommodations	
Souvenirs and gifts	
Other entertainment	
Other	
Sub-Total	
Package Expenditures	
ALL ANGLERS	_
Trip Expenditures	
Fuel and oil \$4,729,944 \$601,553 \$72	27,184 <b>\$6,421,919</b>
Guide and charter fees \$78,951 \$2,407,661 \$79	99,496 <b>\$3,780,477</b>
	21,688 <b>\$1,201,054</b>
	95,118 <b>\$4,734,213</b>
	\$2,938 <b>\$203,018</b>
	<b>\$452,793</b>
	<b>\$32,559</b>
	\$9,204 <b>\$132,676</b>
	94,823 <b>\$400,633</b>
	4,594 <b>\$208,881</b>
	\$8,422 <b>\$2,966,941</b> 77,845 <b>\$2,439,167</b>
	22,463 <b>\$1,255,187</b>
	3,590 <b>\$1,191,024</b>
	\$9,973 <b>\$581,219</b>
, , , , , , , , , , , , , , , , , , ,	\$3,983 <b>\$13,827</b>
	1,758 \$26,015,588
Package Expenditures NA* \$2,070,725 \$1,16	<b>34,897</b> \$3,235,622

Shaded cells indicate estimates that were not produced due to small sample size.

#### **Economic Contributions**

Expenditures by anglers generate additional economic benefits throughout the Interior region. Multiplier effects have been estimated separately for trip spending and package spending, and for equipment and real estate spending combined. All economic contributions have been estimated separately for residents and nonresidents. The direct effects that are shown in the following tables reflect the economic activity associated with angler spending captured within the regional economy (i.e. consumer retail spending less the value of goods imported from outside of the regional economy). For that reason, the direct output values in the tables that follow are likely to be less than the reported angler spending for any specific category.

The \$100.6 million of spending by anglers in the Interior region in 2007 generated \$20.6 million of income to 720 full and part time employees and proprietors who worked in the Interior businesses whose products were purchased by anglers (Table 54). Spending by nonresidents accounted for 407 of the jobs and \$10.6 million of income. In addition to the economic activity directly attributable to spending by anglers are the multiplier effects (indirect and induced effects) of that consumer spending. The indirect effect results from the increased economic activity among businesses that supply those businesses selling directly to the anglers. For example, the guide that sells directly to anglers, in turn, stimulates additional activity among the businesses that supply the guide's operations. The induced effect is the economic activity produced by household spending of income earned by workers in those businesses that are impacted by both the direct and indirect effects. Including both direct and multiplier effects, the \$100.6 million of spending in the Interior region by anglers produced \$28.6 million of income and supported 923 full and part-time jobs (Table 54).

Table 54.-Interior Region economic contributions of ALL spending for sportfishing, by residency, 2007.

	Resident	Nonresident	All
	Anglers	Anglers	Anglers
Direct effects			
Output	\$28,968,360	\$31,733,201	\$60,701,561
Income	\$9,940,774	\$10,605,086	\$20,545,860
Employment (jobs)	313	407	720
Multiplier effects			
Output	\$11,165,470	\$14,845,678	\$26,011,148
Income	\$3,322,932	\$4,695,090	\$8,018,022
Employment (jobs)	\$86	\$117	203
Total effects			
Output	\$40,133,830	\$46,578,879	\$86,712,709
Income	\$13,263,706	\$15,300,176	\$28,563,882
Employment (jobs)	399	524	923

The relationship between the direct effect (i.e. directly attributable to the spending by anglers) and the total economic activity that it creates is commonly presented in the form of a multiplier. Typically, smaller regional economies will exhibit smaller multipliers due to the reduced opportunities to retain economic activity within the region. In the case of Interior sportfishing, the output multiplier of 1.43 (total effect divided by direct effect) means every dollar of activity stimulated by angler spending creates an additional \$0.43 of economic activity elsewhere in the economy (compared to a statewide output multiplier of 1.62). Because the Interior Region is an

economically small subregion of the statewide economy, it is expected that each of the multipliers is smaller than their counterpart at the statewide level. The income and employment multipliers are 1.39 and 1.28, respectively. This means that for every dollar of income paid to workers in businesses that sell directly to anglers and for every job in a business that sells directly to anglers there is an additional \$0.39 of income and 0.28 additional jobs in other businesses throughout the region that are supported by angler spending.

Employment effects are of particular importance to the state and local economy. The jobs supported by angler expenditures are shown in Table 55 categorized by the industry in which the jobs occur. The jobs directly supported by angler spending largely reflect the types of expenditures made by anglers – trip expenditures for food, bait, lodging and guide services, maintenance of real estate used for sportfishing, and retail purchases of fishing and related equipment. Sector 11 in the following table includes farming and commercial fishing and hunting and is directly affected primarily through anglers' purchases of groceries and bait. The broader distribution of jobs indirectly supported by angler spending through the multiplier effect is the result of inter-industry trade flows and the expenditures of household income that comes from angler-supported jobs.

Table 55.–Employment (jobs) directly and indirectly supported by angler expenditures in the Interior region, by industry in which the employment occurs, 2007.

NAICS Industry Categories	Direct Effects	Multiplier Effects	Total Effects
44 Aprilante de Caracter districto de la continua			4.4
11 Agriculture, forestry, fishing & hunting	6	5	11
21 Mining	0	2	2
22 Utilities	-	2	2
23 Construction	31	2	33
31-33 Manufacturing	3	3	6
42 Wholesale trade	34	5	39
48-49 Transportation & warehousing	47	20	67
44-45 Retail trade	243	29	272
51 Information	-	5	5
52 Finance & insurance	-	6	6
53 Real estate & rental	4	15	19
54 Professional- scientific & technical services	-	10	10
55 Management of companies	-	0	0
56 Administrative & waste services	0	14	14
61 Educational services	-	3	3
62 Health & social services	-	21	21
71 Arts- entertainment & recreation (e.g., guides)	220	8	228
72 Accommodation & food services	96	21	117
81 Other services	15	13	28
92 Government and public administration	20	21	41
Total Employment Impact	719	202	923

Table 56 presents a breakdown by residency of the economic contributions that derive from anglers' spending on equipment and real estate (a subset of total spending) in the Interior region. Including the direct and multiplier effects, the \$50.4 million spent on equipment and \$5.7 million spent on real estate (Table 56) supported 274 jobs and provided \$9.8 million of income. Equipment and real estate spending by residents supported 239 jobs and provided \$8.0 million of income in 2007 while nonresident angler spending supported 35 jobs and \$1.8 million of income.

Table 56.—Interior Region economic contributions of expenditures for sportfishing EQUIPMENT and REAL ESTATE, by residency, 2007.

	Resident	Nonresident	All
	Anglers	Anglers	Anglers
Direct effects			
Output	\$15,111,402	\$3,472,662	\$18,584,064
Income	\$6,196,345	\$1,360,237	\$7,556,582
Employment	191	23	215
Multiplier effects			
Output	\$5,877,860	\$1,348,185	\$7,226,045
Income	\$1,825,663	\$446,939	\$2,272,602
Employment	48	12	59
Total effects			
Output	\$20,989,262	\$4,820,847	\$25,810,109
Income	\$8,022,008	\$1,807,176	\$9,829,184
Employment	239	35	274

Table 57 shows the economic contributions from spending on trips and packages, broken down by residency, use of guides, and type of water fished. Due to a very small number of saltwater anglers in this region, reliable estimates of spending and impacts are not available and their contribution is likely insignificant. Additional detailed estimates of the industry impacts in the Interior region due to angler spending are presented in Appendices K and L.

Table 57.—Interior Region economic contributions of combined TRIP-RELATED and PACKAGE spending for sportfishing, by residency, use of guides, and type of water.

	RES	SIDENT	NONRE	SIDENT	TO	TAL*	ALL
	Guided	Unguided	Guided	Unguided	Resident	Nonresident	ANGLERS
FRESHWATER ANG	LERS		•				
Direct effects							
Output	_	\$8,091,845	\$10,485,398	\$9,000,088	\$9,315,809	\$19,485,486	\$28,801,295
Income	_	\$2,202,287	\$3,424,294	\$2,982,011	\$2,554,857	\$6,406,305	\$8,961,162
Employment		68	147	99	84	246	330
Multiplier effects							
Output		\$2,993,829	\$5,088,479	\$4,605,357	\$3,519,654	\$9,693,836	\$13,213,490
Income		\$834,983	\$1,643,539	\$1,375,502	\$1,008,873	\$3,019,041	\$4,027,914
Employment		22	41	34	26	75	101
Total effects		_					
Output		\$11,085,674	\$15,573,877	\$13,605,445	\$12,835,463	\$29,179,322	\$42,014,785
Income		\$3,037,270	\$5,067,833	\$4,357,513	\$3,563,730	\$9,425,346	\$12,989,076
Employment		89	188	134	110	321	431
SALTWATER ANGLI	ERS						
Direct effects							
Output	_						_
Income	_						_
Employment							
Multiplier effects							
Output							
Income							
Employment							
Total effects							
Output							
Income							
Employment							
ALL ANGLERS							
Direct effects							
Output		\$8,091,845	\$10,485,398	\$9,000,088	\$9,315,809	\$19,485,486	\$28,801,295
Income		\$2,202,287	\$3,424,294	\$2,982,011	\$2,554,857	\$6,406,305	\$8,961,162
Employment		68	147	99	84	246	330
Multiplier effects							
Output		\$2,993,829	\$5,088,479	\$4,605,357	\$3,519,654	\$9,693,836	\$13,213,490
Income		\$834,983	\$1,643,539	\$1,375,502	\$1,008,873	\$3,019,041	\$4,027,914
Employment		22	41	34	26	75	101
Total effects							
Output		\$11,085,674	\$15,573,877	\$13,605,445	\$12,835,463	\$29,179,322	\$42,014,785
Income		\$3,037,270	\$5,067,833	\$4,357,513	\$3,563,730	\$9,425,346	\$12,989,076
Employment		89	188	134	110	321	431

<sup>\*</sup> Total guided and unguided trip related and package spending.

Shaded cells indicate estimates that were not produced due to small sample size.

The economic activity directly and indirectly generated in the Interior region by sportfishing also produces tax revenues for local, state and federal governments. The IMPLAN model produces generalized estimates of tax revenues that are based on existing statewide ratios of output, income and employment to all tax revenues. It is estimated that sportfishing expenditures in the Interior region in 2007 provided \$7.2 million and \$6.2 million of state/local and federal tax revenues, respectively (Table 58).

Table 58.—Tax revenues generated in the Interior Region from the economic contributions of sportfishing, 2007.

	State and Local Tax Revenues	Federal Tax Revenues	Total tax Revenues
RESIDENT ANGLERS			
Trip Expenditures (non-package)	\$1,669,964	\$1,209,844	\$2,879,807
Package Expenditures	\$0	\$0	\$0
Equipment & Real Estate Expenditures	\$2,155,346	\$1,675,117	\$3,830,463
Subtotal	\$3,825,310	\$2,884,961	\$6,710,270
NONRESIDENT ANGLERS			
Trip Expenditures (non-package)	\$2,127,807	\$2,025,776	\$4,153,583
Package Expenditures	\$1,027,724	\$930,289	\$1,958,013
Equipment & Real Estate Expenditures	\$241,300	\$355,979	\$597,279
Subtotal	\$3,396,831	\$3,312,044	\$6,708,875
ALL ANGLERS			
Trip Expenditures (non-package)	\$3,797,771	\$3,235,620	\$7,033,390
Package Expenditures	\$1,027,724	\$930,289	\$1,958,013
Equipment & Real Estate Expenditures	\$2,396,646	\$2,031,096	\$4,427,742
Total Expenditures	\$7,222,141	\$6,197,005	\$13,419,146

### **COOK INLET SUBREGION**

This section presents the detailed expenditures and economic contributions for sportfishing in the Cook Inlet subregion. The Cook Inlet Subregion (Figure 4) is a part, or subset, of the larger Southcentral region. It was analyzed separately due to its importance as a sportfishing destination in Alaska. The spending and contribution totals in the following Cook Inlet subregion tables do not include the cost of fishing licenses and stamps. This expenditure is not included in the subsequent regional tables because licenses and stamps are purchased from state government and cannot be ascribed to a particular region. However, it is included in the statewide analysis (Table 20).

# **Angler Days**

A total of 1.2 million days of sportfishing occurred in the Cook Inlet subregion in 2007, of which more than 60% (761,221) were reported by Alaska residents and (40%) 481,877 were taken by nonresidents. Approximately 81% of all sportfishing days in the Cook Inlet subregion in 2007 were unguided, although a higher percentage of saltwater days fished were guided (37.5%), than freshwater days (14%; Table 59). Overall nonresidents (35%) are much more likely than residents (8%) to take guided fishing trips, particularly when fishing in saltwater. Approximately 64% of nonresident angler days fished in saltwater were guided, compared to 17% of resident saltwater days. In freshwater, approximately 26.5% of nonresident days fished were guided compared to only 7% of resident angler days (Table 59).

Table 59.—Cook Inlet subregion angler days, by water type, guided/unguided, and residency\*, 2007.

	RESID	ENT	NONRES	NONRESIDENT		GLERS
	Angler- Days	%	Angler- Days	%	Angler- Days	%
Freshwater						
Guided	40,699	6.6%	98,859	26.5%	139,558	14.0%
Unguided	580,559	93.4%	274,836	73.5%	855,395	86.0%
Total	621,258	100.0%	373,695	100.0%	994,953	100.0%
Saltwater						
Guided	23,450	16.8%	69,694	64.4%	93,144	37.5%
Unguided	116,513	83.2%	38,488	35.6%	155,001	62.5%
Total	139,963	100.0%	108,182	100.0%	248,145	100.0%
Total Guided	64,149	8.4%	168,553	35.0%	232,702	18.7%
Total Unguided	697,072	91.6%	313,324	65.0%	1,010,396	81.3%
TOTAL	761,221	100.0%	481,877	100.0%	1,243,098	100.0%

Source: 2007 Statewide Harvest Survey, Alaska Department of Fish and Game.

<sup>\*</sup>Totals reported here do not exactly match published statewide and regional totals from the 2007 SWHS due to the fact that it is not possible to identify the water type or guided/unguided status of some SWHS survey responses. The totals reported in this table reflect the summary of all days fished within a region that could be assigned to a specific residency, water type, and guided/unguided category. Approximately 4,177 days fished (0.16% of 2.5 million days) could not be assigned to a strata category and thus were not included in these totals.

## **Expenditures**

Where anglers spend their money is not necessarily tied to where they fish or where they live. In actuality, an angler on a one-day or multi-day fishing trip might start from their home, purchase fuel, food, or other supplies on the way to their destination, and then make additional purchases such as bait, ice, or guide services, closer to where they fish. The following expenditure tables take this into account by reporting total expenditures in the Cook Inlet region made by all Alaska resident anglers, regardless of where they fished or the region where they live, and by all nonresident anglers who live outside of Alaska regardless of where they fished. Anglers spent a total of \$733.0 million in the Cook Inlet subregion in 2007. Nonresidents accounted for \$275.0 million of the total and residents spent 457.9 million. Thirty-eight percent (\$280.8 million) of the total is non-package trip spending. When combined with fishing packages, all trip-related spending accounts for 41.5% (\$304.5 million) of all sportfishing expenditures in the region. Spending on fishing and fishing-related equipment (\$313.7 million) represents 42.8% of all spending. This is not surprising because this region includes a large portion of the state's retail and commercial businesses and many anglers from outside the region likely make some of their purchases in the region, in addition to the purchases of local residents. Spending for maintenance and construction of real estate that is used primarily for sportfishing represents 15.7% of the total regional spending (Table 60).

Table 60.—Cook Inlet subregion spending for sportfishing, by residency and expenditure category, 2007.

	Residen Anglers		Nonresid Anglers		All Anglers	5
Expenditures	Spending	%	Spending	%	Spending	%
Trip	\$123,295,328	26.9%	\$157,465,551	57.3%	\$280,760,879	38.3%
Package	\$0	0.0%	\$23,774,541	8.6%	\$23,774,541	3.2%
Equipment	\$291,710,774	63.7%	\$21,952,076	8.0%	\$313,662,850	42.8%
Real Estate	\$42,932,362	9.4%	\$71,838,343	26.1%	\$114,770,705	15.7%
Total	\$457,938,464	100.0%	\$275,030,511	100.0%	\$732,968,975	100.0%

<sup>\*</sup>Package expenditures refer specifically to travel packages purchased by nonresidents prior to departing on their trip to Alaska.

Similar to statewide spending, more spending in the Cook Inlet comes from residents (\$457.9 million) than nonresidents (\$275.0 million). Nearly two-thirds of resident spending is associated with purchases of equipment used for fishing (\$291.7 million), followed by trip expenditures (\$123.3 million), and real estate (\$42.9 million). The largest amount of spending by nonresidents is trip-related (\$157.5 million) followed by pre-purchased packages (\$23.8 million). Nonresident anglers spent \$71.8 million on real estate maintenance and construction related to sportfishing in the region in 2007 and \$21.9 million on fishing equipment (Table 60). It should be noted that all spending refers specifically to purchases that were made in the Cook Inlet region, therefore it is not surprising that equipment expenditures by nonresidents are disproportionately lower than for residents since anglers typically purchase most of their fishing tackle and equipment closer to where they live.

Table 61 presents a summary of the average spending that took place in the Cook Inlet for the major expenditure categories. Trip and package spending is based on total spending in the region and is averaged across all days of fishing that took place in the region, regardless of where individual resident anglers lived or fished. Due to the durable nature of equipment and its use across many trips, equipment and real estate expenditures are shown as the average spent in the region across all resident and nonresident anglers in Alaska on an annual basis. Overall, anglers spent an average of \$244.98 in the Cook Inlet per day of fishing for all trip and package related purchases (fuel, groceries, bait, lodging, restaurants, etc.). The average angler in Alaska spent \$896.62 per year in the Cook Inlet subregion on fishing and related equipment and real estate (rods, reels, boats, motors, clothing, maintenance, etc.; Table 61).

Table 61.-Average expenditures in the Cook Inlet region made by Alaska resident and nonresident anglers, 2007\*.

	Resident Anglers	Nonresident Anglers	All Anglers
		\$ per angler-day	
Trip Expenditures	\$161.97	\$326.78	\$225.86
Package Expenditures	NA**	\$49.34	\$19.13
Total trip spending	\$161.97	\$376.11	\$244.98
	annı	ual \$ per licensed ar	ngler
Equipment Expenditures	\$1,519.98	\$76.62	\$655.27
Real Estate Expenditures	\$225.20	\$252.16	\$241.35
Total equipment & real estate spending	\$1,745.18	\$328.78	\$896.62

<sup>\*</sup>Estimates of average spending for detailed trip and equipment categories are presented in Appendix L.

As with total spending, nonresidents, on average, spent more per day on trip-related purchases in the Cook Inlet region than Alaska residents, (\$376.11 compared to \$161.97). Conversely, the average Alaska resident angler spent more in the Cook Inlet for equipment than the average nonresident (\$1,745.18 compared to \$328.78). The average resident and nonresident angler spent approximately the same amount in the region on real estate used for fishing (approximately \$225 to \$250 per year).

Anglers make a wide range of purchases to support their fishing activity including trip-related expenditures, fishing tackle and other equipment, and expenses related to real estate that they use for fishing. Trip-related expenses refer to spending for temporary or consumable goods and services that anglers make while on a particular fishing trip. These range from food and lodging to travel expenses (e.g., fuel or air taxis), groceries, bait, and derby tickets. The full list of trip items and the amount spent by resident and nonresidents in the Cook Inlet subregion is presented in Table 62.

<sup>\*\*</sup>Package expenditures refer specifically to purchases of travel packages made by nonresidents prior to departing on their trip to Alaska.

Some nonresident anglers opt to pre-purchase a packaged fishing expedition from one of the many outfitters, guides and lodges in Alaska. Such packages typically offer a range of services for one price including transportation, guides, feed and lodging. The survey of nonresidents asked anglers to report spending for any packages that they may have purchased and to indicate which amenities were included in the package.

Equipment expenditures refer to a list of tackle and other items that are used only for fishing, plus other equipment that might be used in other pursuits in addition to fishing. The details of total spending in the Cook Inlet subregion for these items is listed in the bottom half of Table 62. The dollar figures represent total amounts spent on the fishing equipment and only that portion of multi-use equipment that anglers reported was used specifically for fishing.

The real estate spending in Table 62 shows the annual costs of construction and maintenance that anglers reported was associated with real estate that is used primarily for sportfishing purposes. These numbers do not include any spending that anglers may have made to purchase or lease real estate used for sportfishing. An effort was made in the survey to capture lease/purchase spending for real estate, but the information that was collected was deemed too unreliable to provide an accurate estimation of that spending and is not included here.

The detailed breakdown of total spending in all categories by resident and nonresident anglers in Table 62 shows the differences in their specific purchases. Overall, nonresidents spent more than residents on trip-related items, especially those categories associated with travel (e.g., guide fees, airfare and other travel, rentals, restaurant meals, lodging, gifts/souvenirs, etc.). Because most people purchase equipment closer to where they live, and vacationers typically do not buy a significant amount of equipment while traveling, it is not surprising that residents outspent nonresidents in every equipment category except the miscellaneous "other" equipment category.

Further breakdowns of trip and package spending for Cook Inlet region are presented in Table 63 which shows total spending by resident/nonresidents, guided/unguided, and by type of water fished. In this breakdown, the greatest amount of trip spending came from resident anglers fishing without guides in fresh water (\$58.7 million). However, due to the range of fishing opportunities in the region, their trip spending is nearly matched by nonresidents on guided fishing trips in fresh water (\$55.2 million), nonresidents on guided fishing trips in salt water (\$50.7 million) and nonresidents fishing in freshwater without a guide (\$45.7 million). The largest amount of package spending was by nonresidents fishing with guides in salt water (\$9.5 million) and freshwater (\$8.7 million).

The multi-purpose nature of many equipment items precludes a similarly detailed breakdown of equipment or real estate spending in the Cook Inlet subregion for this report. Additional detailed estimates of total and average spending are presented in Appendices I and J.

Table 62.-Detailed spending for sportfishing in Cook Inlet subregion, by residency, 2007.

	Resident	Nonresident	Total
Trip Expenditures			
Fuel	\$37,011,821	\$10,044,202	\$47,056,024
Guide	\$18,110,318	\$31,265,439	\$49,375,757
Air	\$1,812,166	\$21,302,467	\$23,114,633
Travel	\$589,157	\$3,030,195	\$3,619,352
Process	\$5,012,909	\$15,509,514	\$20,522,423
Rentals	\$1,478,512	\$18,137,545	\$19,616,056
Derby	\$647,639	\$243,895	\$891,534
Dock	\$4,901,916	\$1,062,002	\$5,963,918
Ice	\$2,099,702	\$696,683	\$2,796,385
Bait	\$2,870,067	\$1,104,778	\$3,974,845
Groceries			
	\$22,606,554	\$13,662,403 \$43,463,350	\$36,268,957
Meals	\$10,042,829	\$13,162,259	\$23,205,088
Lodging	\$12,216,060	\$17,774,950	\$29,991,010
Gifts	\$1,889,133	\$7,807,062	\$9,696,196
Amusements	\$1,946,515	\$2,497,644	\$4,444,159
Other	\$60,030	\$164,514	\$224,544
ub-Total	\$123,295,328	\$157,465,551	\$280,760,879
ackage Expenditures	NA*	\$23,774,541	\$23,774,541
quipment Expenditures			
Rods, reels, & components	\$13,259,547	\$3,249,634	\$16,509,181
Fishing tackle	\$7,483,531	\$3,556,936	\$11,040,467
Tackle boxes	\$1,093,528	\$234,280	\$1,327,807
Depth finders, fish finders, etc.	\$5,551,575	\$13,401	\$5,564,976
Landing nets, dipnets & gillnets	\$2,482,010	\$196,128	\$2,678,138
Misc. fishing equip	\$2,584,018	\$868,690	\$3,452,707
Shellfish fishing equip	\$690,714	\$119,282	\$809,996
Fish mounting (taxidermy)	\$1,454,872	\$351,385	\$1,806,257
Books and magazines	\$827,718	\$302,202	\$1,129,920
Items to store/preserve fish	\$4,710,457	\$1,139,791	\$5,850,248
Coolers, fish boxes	\$1,864,918	\$983,159	\$2,848,078
Clothing	\$3,920,066	\$1,347,794	\$5,267,860
Boots, shoes, waders	\$3,591,748	\$1,150,357	\$4,742,105
Life jackets, survival suits	\$2,136,044	\$46,466	\$2,182,509
Boats, canoes, other watercraft	\$80,377,485	\$2,018,037	\$82,395,521
Boat motors			
	\$22,853,409	\$29,280	\$22,882,689
Trailers, hitches, and acc	\$4,217,105	\$123,647	\$4,340,753
Other boat parts and acc	\$7,662,191	\$160,244	\$7,822,435
Bear spray, bug spray, etc	\$704,412	\$287,722	\$992,134
Firearms	\$3,417,279	\$58,334	\$3,475,613
Cameras, binoculars	\$3,488,315	\$525,085	\$4,013,401
Tents, backpacks, sleeping bags	\$2,472,341	\$209,499	\$2,681,840
Camping trailer	\$23,708,102	\$13,788	\$23,721,889
Other camping equip	\$1,554,141	\$176,261	\$1,730,403
Vehicles (trucks,SUVs, etc)	\$53,115,779	\$3,550,618	\$56,666,397
Airplanes and related equipment	\$2,697,880	\$765,104	\$3,462,984
ATVs, snowmachines	\$17,109,683	\$0	\$17,109,683
Boat/camper registrations	\$2,389,419	\$138,116	\$2,527,535
Vehicle, boat or airplane repair	\$14,084,627	\$332,897	\$14,417,524
Other	\$207,861	\$3,939	\$211,800
ub-Total	\$291,710,774	\$21,952,076	\$313,662,850
eal Estate Expenditures			
Real estate repairs	\$6,221,360	\$9,036,749	\$15,258,109
Real estate construction	\$36,711,001	\$62,801,595	\$99,512,596
Sub-Total	\$42,932,362	\$71,838,343	\$114,770,705
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<sup>\*</sup>Package expenditures refer specifically to purchases of travel packages made by nonresidents prior to departing on their trip to Alaska.

Table 63.—Detailed total TRIP and PACKAGE spending in the Cook Inlet subregion, by residency, use of guides, and type of water fished.

	RESID	FNT	NONRES	ALL	
	Guided	Unguided	Guided	Unquided	ANGLERS
FRESHWATER ANGLERS					
Trip Expenditures	<b>#0.470.000</b>	<b>AC4 CC4 570</b>	<b>#</b> 0.400.400	40.000.005	AAA 504 440
Fuel and oil Guide and charter fees	\$2,173,330 \$9,775,368	\$21,901,576 \$491,026	\$3,186,123 \$15,117,765	\$3,263,385 \$1,497,359	\$30,524,413 \$26,881,518
Airfare to and from Alaska	\$9,775,368 \$676,488	\$641.443	\$6,751,271	\$1,497,359 \$9,165,356	\$20,001,510 \$17,234,558
Travel within Alaska	\$324,265	\$196,692	\$1,359,212	\$1,224,923	\$3,105,092
Fish processing & shipping	\$211,402	\$2,416,922	\$4,186,148	\$4,389,265	\$11,203,737
Rentals (boats, equipment, etc.)	\$0	\$984,794	\$5,601,019	\$6,829,749	\$13,415,562
Derby tickets	\$19,034	\$265,911	\$44,050	\$40,009	\$369,003
Boat launch and dock fees	\$14,288	\$2,999,774	\$39,839	\$487,024	\$3,540,924
Ice	\$67,606	\$1,443,246	\$141,983	\$391,344	\$2,044,179
Bait (natural bait only)	\$14,266	\$1,415,536	\$141,380	\$400,092	\$1,971,273
Groceries bought in stores	\$1,845,644	\$14,369,144	\$3,306,773	\$6,744,856	\$26,266,417
Restaurants, bars, and take-out	\$1,878,700	\$5,004,739 \$4,034,446	\$4,354,029	\$4,436,963	\$15,674,430
Overnight accommodations Souvenirs and gifts	\$3,883,292 \$321,053	\$4,921,116 \$695,238	\$7,187,303 \$2,594,590	\$3,402,945 \$2,752,956	\$19,394,656 \$6,363,838
Other entertainment	\$554,469	\$885,321	\$1,182,918	\$2,752,956 \$671,368	\$3,294,077
Other	\$054,409 \$0	\$46,262	\$59,683	\$6,930	\$112,875
Sub-Total	\$21,759,204	\$58,678,740	\$55,254,085	\$45,704,524	\$181,396,553
	<b>+</b> ,,	<b>4</b> ,,	<b>,</b> ,	<b>*</b> 10,101,01	<b>*</b> * * * * * * * * * * * * * * * * * *
Package Expenditures	NA*	NA*"	\$8,680,122	\$5,027,281	\$13,707,403
SALTWATER ANGLERS					
Trip Expenditures	Φ4 FFF 0C4	<b>644 200 054</b>	<b>#0.750.400</b>	<b>#000 F00</b>	£4C E24 C40
Fuel and oil	\$1,555,961 \$7,712,767	\$11,380,954 \$131,159	\$2,758,126 \$14,444,760	\$836,568 \$205 546	\$16,531,610 \$22,494,239
Guide and charter fees Airfare to and from Alaska	\$7,712,767 \$494,235	\$131,158 \$0	\$14,444,769 \$4,506,611	\$205,546 \$879,229	\$22,494,239 \$5,880,075
Travel within Alaska	\$21,360	\$46.840	\$386,468	\$59,592	\$5,880,075
Fish processing & shipping	\$1,021,272	\$1,363,313	\$6,251,152	\$682,949	\$9,318,686
Rentals (boats, equipment, etc.)	\$95,175	\$398,542	\$5,416,541	\$290,235	\$6,200,494
Derby tickets	\$50,954	\$311,741	\$143,625	\$16,211	\$522,531
Boat launch and dock fees	\$13,165	\$1,874,689	\$55,453	\$479,686	\$2,422,993
Ice	\$77,690	\$511,160	\$132,132	\$31,224	\$752,206
Bait (natural bait only)	\$8,838	\$1,431,427	\$138,026	\$425,280	\$2,003,571
Groceries bought in stores	\$1,565,405	\$4,826,360	\$2,828,945	\$781,830	\$10,002,539
Restaurants, bars, and take-out	\$1,733,160	\$1,426,230	\$3,975,969	\$395,298	\$7,530,657
Overnight accommodations	\$2,261,977	\$1,149,674	\$6,839,466	\$345,236	\$10,596,353
Souvenirs and gifts	\$624,221	\$248,621	\$2,220,291	\$239,225	\$3,332,358
Other entertainment	\$223,875	\$282,850	\$522,260	\$121,097	\$1,150,083
Other Sub-Total	\$0 \$17,460,056	\$13,767 <b>\$25.397.328</b>	\$97,902 <b>\$50,717,735</b>	\$0 <b>\$5,789,207</b>	\$111,669 \$99,364,325
Sub-Total	\$17,400,030	\$25,591,526	φ30,717,733	\$3,76 <del>3</del> ,207	φ99,304,3 <b>2</b> 3
Package Expenditures	NA*	NA*	\$9,452,136	\$615,002	\$10,067,138
ALL ANGLERS					
<u>Trip Expenditures</u>		*** ***	<b>^-</b>		
Fuel and oil	\$3,729,291	\$33,282,530	\$5,944,250	\$4,099,953	\$47,056,024
Guide and charter fees	\$17,488,135	\$622,183	\$29,562,533	\$1,702,905	\$49,375,757
Airfare to and from Alaska	\$1,170,723	\$641,443	\$11,257,882	\$10,044,585	\$23,114,633
Travel within Alaska Fish processing & shipping	\$345,625 \$1,232,673	\$243,532 \$3,780,235	\$1,745,680 \$10,437,300	\$1,284,516 \$5,072,214	\$3,619,352 \$20,522,423
Rentals (boats, equipment, etc.)	\$95,175	\$1,383,337	\$11,017,560	\$7,119,985	\$19,616,056
Derby tickets	\$69,987	\$577,652	\$187,675	\$56,220	\$891,534
Boat launch and dock fees	\$27,453	\$4,874,463	\$95,292	\$966,709	\$5,963,918
Ice	\$145,296	\$1,954,406	\$274,115	\$422,568	\$2,796,385
Bait (natural bait only)	\$23,104	\$2,846,963	\$279,406	\$825,372	\$3,974,845
Groceries bought in stores	\$3,411,050	\$19,195,504	\$6,135,717	\$7,526,686	\$36,268,957
Restaurants, bars, and take-out	\$3,611,859	\$6,430,970	\$8,329,998	\$4,832,261	\$23,205,088
Overnight accommodations	\$6,145,270	\$6,070,790	\$14,026,769	\$3,748,181	\$29,991,010
Souvenirs and gifts	\$945,274	\$943,859	\$4,814,882	\$2,992,181	\$9,696,196
Other entertainment	\$778,344	\$1,168,171	\$1,705,178	\$792,466	\$4,444,159
Other	\$0 \$20,240,260	\$60,030	\$157,584 \$105,074,830	\$6,930 <b>\$51,403,734</b>	\$224,544
Sub-Total	\$39,219,260	\$84,076,068	\$105,971,820	\$51,493,731	\$280,760,879
Package Expenditures	NA*	NA*	\$18,132,258	\$5,642,283	\$23,774,541

#### **Economic Contributions**

Expenditures by anglers generate additional economic benefits throughout the Cook Inlet subregion. Multiplier effects have been estimated separately for trip spending and package spending, and for equipment and real estate spending combined. All economic contributions have been estimated separately for residents and nonresidents. The direct effects that are shown in the following tables reflect the economic activity associated with angler spending captured within the regional economy (i.e., consumer retail spending less the value of goods imported from outside of the regional economy). For that reason, the direct output values in the tables that follow are likely to be less than the reported angler spending for any specific category.

The \$733.0 million in spending by anglers in the Cook Inlet subregion in 2007 generated \$171.5 million of income to 5,282 full and part time employees and proprietors who worked in the Cook Inlet businesses whose products were purchased by anglers (Table 64). Spending by nonresidents accounted for 2,583 of the jobs and \$87.3 million of income, while resident spending in the subregion supported 2,699 jobs and \$84.2 million of income. In addition to the economic activity directly attributable to spending by anglers are the multiplier effects (indirect and induced effects) of that consumer spending. The indirect effect results from the increased economic activity among businesses that supply those businesses selling directly to the anglers. For example, the guide that sells directly to anglers, in turn, stimulates additional activity among the businesses that supply the guide's operations. The induced effect is the economic activity produced by household spending of income earned by workers in those businesses that are impacted by both the direct and indirect effects. Including both direct and multiplier effects, the \$733.0 million of spending in the region by anglers produced \$278.8 million of income and supported 8,056 full and part-time jobs (Table 64).

Table 64.—Cook Inlet subregion economic contributions of ALL spending for sportfishing, by residency, 2007.

	Resident	Nonresident	All
	Anglers	Anglers	Anglers
Direct effects		•	
Output	\$246,005,477	\$242,415,467	\$488,420,944
Income	\$84,239,661	\$87,274,061	\$171,513,722
Employment (jobs)	2,699	2,583	5,282
Multiplier effects			
Output	\$167,282,135	\$172,186,759	\$339,468,894
Income	\$52,410,475	\$54,850,355	\$107,260,830
Employment (jobs)	1,311	1,463	2,774
Total effects			
Output	\$413,287,612	\$414,602,226	\$827,889,838
Income	\$136,650,136	\$142,124,416	\$278,774,552
Employment (jobs)	4,010	4,046	8,056

The relationship between the direct effect (i.e. directly attributable to the spending by anglers) and the total economic activity that it creates is commonly presented in the form of a multiplier. Typically, smaller regional economies will exhibit smaller multipliers due to the reduced opportunities to retain economic activity within the region. In the case of Cook Inlet sportfishing, the output multiplier of 1.70 (total effect divided by direct effect) means every dollar of activity stimulated by angler spending creates an additional \$0.70 of economic activity

elsewhere in the regional economy (compared to a statewide output multiplier of 1.62). The income and employment multipliers are 1.63 and 1.53, respectively. This means that for every dollar of income paid to workers in businesses that sell directly to anglers and for every job in a business that sells directly to anglers there is an additional \$0.63 of income and 0.53 additional jobs in other businesses throughout the region that are supported by angler spending. Generally, the economic multipliers for any given sector in a subregion will be smaller than the multiplier for that same sector in the statewide economy because there are fewer businesses to capture and re-circulate the original dollars that are spent. However, different sectors have different multipliers and in the case of anglers' spending in the Cook Inlet their mix of purchases includes more of those sectors with higher multipliers resulting in an overall multiplier that is slightly larger than the statewide multiplier.

Employment effects are of particular importance to the state and local economy. The jobs supported by angler expenditures are shown in Table 65 categorized by the industry in which the jobs occur. The jobs directly supported by angler spending largely reflect the types of expenditures made by anglers – trip expenditures for food, bait, lodging and guide services, maintenance of real estate used for sportfishing, and retail purchases of fishing and related equipment. Sector 11 in the following table includes farming and commercial fishing and hunting and is directly affected primarily through anglers' purchases of groceries and bait. The broader distribution of jobs indirectly supported by angler spending through the multiplier effect is the result of inter-industry trade flows and the expenditures of household income that comes from angler-supported jobs.

Table 65.Employment (jobs) directly and indirectly supported by angler expenditures in the Cook Inlet subregion, by industry in which the employment occurs, 2007.

NAICS Industry Categories	Direct Effects	Multiplier Effects	Total Effects
11 Agriculture, forestry, fishing & hunting	100	172	272
21 Mining	3	39	42
22 Utilities	-	21	21
23 Construction	645	32	676
31-33 Manufacturing	103	87	190
42 Wholesale trade	217	78	295
48-49 Transportation & warehousing	122	148	270
44-45 Retail trade	1,592	412	2,004
51 Information	-	55	55
52 Finance & insurance	-	102	102
53 Real estate & rental	252	234	486
54 Professional- scientific & technical services	-	215	215
55 Management of companies	-	45	45
56 Administrative & waste services	1	152	153
61 Educational services	-	37	37
62 Health & social services	-	320	320
71 Arts- entertainment & recreation (e.g., guides)	1,214	95	1,309
72 Accommodation & food services	868	246	1,114
81 Other services	136	188	324
92 Government and public administration	30	98	128
Total Employment Impact	5,282	2,773	8,056

Table 66 presents a breakdown by residency of the economic contributions that derive from anglers' spending on equipment and real estate (a subset of total spending) in the Cook Inlet subregion. Including the direct and multiplier effects, the \$313.7 million spent by anglers on equipment and \$114.8 million spent on real estate maintenance and construction for sportfishing (Table 60) supported 3,015 jobs and provided \$120.9 million of income. Equipment and real estate spending by residents supported 2,067 jobs and provided \$74.3 million of income in 2007 while nonresident angler spending supported 948 jobs and \$46.6 million of income (Table 66).

Table 66.—Cook Inlet Subregion economic contributions of expenditures for sportfishing EQUIPMENT and REAL ESTATE, by residency, 2007.

	Resident	Nonresident	All
	Anglers	Anglers	Anglers
Direct effects			
Output	\$127,153,461	\$79,645,976	\$206,799,437
Income	\$49,018,559	\$29,960,787	\$78,979,346
Employment (jobs)	1,400	511	1,911
Multiplier effects			
Output	\$78,501,170	\$50,475,633	\$128,976,803
Income	\$25,283,399	\$16,681,108	\$41,964,507
Employment (jobs)	666	437	1,104
Total effects			
Output	\$205,654,631	\$130,121,609	\$335,776,240
Income	\$74,301,958	\$46,641,895	\$120,943,853
Employment (jobs)	2,067	948	3,015

Table 67 shows the economic contributions from spending on trips and packages, broken down by residency, use of guides, and type of water fished. The largest economic contribution came from nonresident anglers fishing in fresh water with the services of a guide. Including the direct and multiplier effects, their spending supported 1,148 jobs that provided \$34.4 million of income. That represents 14.3% and 12.4% of all jobs and income supported by sportfishing anglers in the region, respectively.

Additional detailed estimates of the industry impacts in Cook Inlet subregion due to angler spending are presented in Appendices K and L.

Table 67.—Cook Inlet subregion economic contributions of combined TRIP-RELATED and PACKAGE spending for sportfishing, by residency, use of guides, and type of water.

	RESIDENT		NONRES	SIDENT	TO <sup>-</sup>	ΓAL*	ALL
	Guided	Unguided	Guided	Unguided	Resident	Nonresident	ANGLERS
FRESHWATER ANGLE	RS	<u> </u>		· ·	<u> </u>		
Direct effects							
Output	\$21,062,669	\$56,284,227	\$58,391,376	\$42,992,979	\$77,346,896	\$101,384,355	\$178,731,251
Income	\$6,524,363	\$16,313,969	\$20,328,757	\$15,900,343	\$22,838,332	\$36,229,100	\$59,067,432
Employment	296	529	780	484	825	1,264	2,089
Multiplier effects							
Output	\$15,405,485	\$42,545,387	\$44,212,275	\$32,886,849	\$57,950,872	\$77,099,124	\$135,049,996
Income	\$5,005,585	\$12,748,328	\$14,113,443	\$10,083,634	\$17,753,913	\$24,197,077	\$41,950,990
Employment	121	298	369	273	419	642	1,061
Total effects							
Output	\$36,468,154	\$98,829,614	\$102,603,651	\$75,879,828	\$135,297,768	\$178,483,479	\$313,781,247
Income	\$11,529,948	\$29,062,297	\$34,442,200	\$25,983,977	\$40,592,245	\$60,426,177	\$101,018,422
Employment	417	827	1,148	757	1,244	1,905	3,149
SALTWATER ANGLER	<u>s</u>						
Direct effects							
Output	\$16,816,852	\$24,688,268	\$55,784,453	\$5,600,683	\$41,505,120	\$61,385,136	\$102,890,256
Income	\$5,285,729	\$7,097,041	\$19,269,061	\$1,815,113	\$12,382,770	\$21,084,174	\$33,466,944
Employment	237	236	742	67	473	809	1,282
Multiplier effects							
Output	\$11,468,710	\$19,361,383	\$40,247,611	\$4,364,391	\$30,830,093	\$44,612,002	\$75,442,095
Income	\$3,626,328	\$5,746,835	\$12,643,368	\$1,328,802	\$9,373,163	\$13,972,170	\$23,345,333
Employment	94	132	349	35	226	384	610
Total effects							
Output	\$28,285,562	\$44,049,651	\$96,032,064	\$9,965,074	\$72,335,213	\$105,997,138	\$178,332,351
Income	\$8,912,057	\$12,843,876	\$31,912,429	\$3,143,915	\$21,755,933	\$35,056,344	\$56,812,277
Employment	332	368	1,091	102	700	1,193	1,892
ALL ANGLERS							
Direct effects							
Output	\$37,879,521	\$80,972,495	\$114,175,829	\$48,593,662	\$118,852,016	\$162,769,491	\$281,621,507
Income	\$11,810,092	\$23,411,010	\$39,597,818	\$17,715,456	\$35,221,102	\$57,313,274	\$92,534,376
Employment	533	765	1,522	551	1,298	2,073	3,371
Multiplier effects							
Output	\$26,874,195	\$61,906,770	\$84,459,886	\$37,251,240	\$88,780,965	\$121,711,126	\$210,492,091
Income	\$8,631,913	\$18,495,163	\$26,756,811	\$11,412,436	\$27,127,076	\$38,169,247	\$65,296,323
Employment	216	430	717	308	645	1,026	1,671
Total effects							
Output	\$64,753,716	\$142,879,265	\$198,635,715	\$85,844,902	\$207,632,981	\$284,480,617	\$492,113,598
Income	\$20,442,005	\$41,906,173	\$66,354,629	\$29,127,892	\$62,348,178	\$95,482,521	\$157,830,699
Employment	749	1,195	2,239	859	1,943	3,098	5,042

<sup>\*</sup> Total guided and unguided trip related and package spending.

The economic activity directly and indirectly generated in the Cook Inlet subregion by sportfishing also produces tax revenues for local, state and federal governments. The IMPLAN model produces generalized estimates of tax revenues that are based on existing statewide ratios of output, income and employment to all tax revenues. It is estimated that sportfishing expenditures in the Cook Inlet subregion in 2007 provided \$55.3 million and \$56.3 million of state/local and federal tax revenues, respectively (Table 68). Approximately forty percent of sportfishing tax revenues (50.0%) were the result of spending by nonresident anglers.

Table 68.—Tax revenues generated in the Cook Inlet subregion from the economic contributions of sportfishing, 2007.

	State and Local Tax Revenues	Federal Tax Revenues	Total tax Revenues
RESIDENT ANGLERS			
Trip Expenditures (non-package)	\$17,542,003	\$15,263,172	\$32,805,175
Package Expenditures	\$0	\$0	\$0
Equipment & Real Estate Expenditures	\$17,647,441	\$16,644,408	\$34,291,849
Subtotal	\$35,189,444	\$31,907,580	\$67,097,024
NONRESIDENT ANGLERS			
Trip Expenditures (non-package)	\$11,961,038	\$12,378,025	\$24,339,063
Package Expenditures	\$1,748,741	\$2,070,565	\$3,819,306
Equipment & Real Estate Expenditures	\$6,382,147	\$9,904,980	\$16,287,127
Subtotal	\$20,091,926	\$24,353,570	\$44,445,496
ALL ANGLERS			
Trip Expenditures (non-package)	\$29,503,041	\$27,641,197	\$57,144,237
Package Expenditures	\$1,748,741	\$2,070,565	\$3,819,306
Equipment & Real Estate Expenditures	\$24,029,587	\$26,549,388	\$50,578,976
Total	\$55,281,369	\$56,261,150	\$111,542,520

#### SOUTHEAST MARINE SUBREGION

This section presents the detailed expenditures and economic contributions for saltwater sportfishing in the Southeast Region. Total fishing activity in this region was described in an earlier section. This section focuses specifically on saltwater fishing in the Southeast region due to its importance to sportfishing in Alaska. The spending and contribution totals in the following Southeast Marine subregion tables do not include the cost of fishing licenses and stamps. This expenditure is not included in the subsequent subregional tables because licenses and stamps are purchased from state government and cannot be ascribed to a particular region. Also, because fishing equipment can be used for both freshwater and saltwater fishing, equipment expenditures cannot be allocated solely to saltwater and are not included in the following tables. Total fishing expenditures and economic contributions therefore are not directly comparable to other regions.

### **Angler Days**

By definition, all of the fishing in this subregion occurred in salt water. Of the total 435,338 days of fishing in Southeast marine waters in 2007, more than one-half (255,465) were taken by nonresidents. Most angler-days fished in the subregion (62.7%) were unguided, but among nonresidents over half of all saltwater days fished (57.7%) were guided days (Table 69). Due to a relatively small sample size, the exact proportion of guided days fished by resident anglers in Southeast marine waters is unknown, but it appears to be relatively small compared to nonresidents.

Table 69.–Total angler days, by residency and guided/unguided for Southeast marine waters\*, 2007.

	RESIDENT		NONRESIDENT		ALL ANGLERS	
	Angler- Days	%	Angler- Days	%	Angler- Days	%
Saltwater						
Guided			147,332	57.7%	162,185	37.3%
Unguided			108,133	42.3%	273,153	62.7%
Total	179,873	100.0%	255,465	100.0%	435,338	100.0%

Shaded cells represent estimates that are not reported due to small sample size.

Source: 2007 Statewide Harvest Survey, Alaska Department of Fish and Game.

\*Totals reported here do not exactly match published statewide and regional totals from the 2007 SWHS due to the fact that it is not possible to identify the water type or guided/unguided status of some SWHS survey responses. The totals reported in this table reflect the summary of all days fished within a region that could be assigned to a specific residency, water type, and guided/unguided category. Approximately 4,177 days fished (0.16% of 2.5 million days) could not be assigned to a strata category and thus were not included in these totals.

# **Expenditures**

Where anglers spend their money is not necessarily tied to where they fish or where they live. In actuality, an angler on a one-day or multi-day fishing trip might start from their home, purchase fuel, food, or other supplies on the way to their destination, and then make additional purchases such as bait, ice, or guide services, closer to where they fish. The following expenditure tables take this into account by reporting total trip expenditures associated with Southeast marine fishing made by all Alaska resident anglers, regardless of where they fished or the region where

they live, and by all nonresident anglers who live outside of Alaska regardless of where they fished. In addition to fishing more days, nonresidents spent considerably more than residents for sportfishing in Southeast marine waters. Because equipment and real estate are not included in estimates of spending by type of water and pre-purchased package spending relates only to nonresidents, all resident angler spending is associated with trip-related expenditures (\$21.3 million). Nonresident anglers split their spending between pre-purchased package trips (\$36.6 million) and non-package trip expenditures (\$73.7 million; Table 70).

Table 70.—Total spending for sportfishing, by expenditure category and residency for Southeast marine waters, 2007.

	Resident Anglers		Nonresident Anglers		All Anglers	
Expenditures	Spending	%	Spending	%	Spending	%
Trip	\$21,268,271	100.0%	\$73,714,297	66.8%	\$94,982,568	72.2%
Package	NA**	NA**	\$36,630,880	33.2%	\$36,630,880	27.8%
Equipment	NA*	NA*	NA*	NA*	NA*	NA*
Real Estate	NA*	NA*	NA*	NA*	NA*	NA*
Total	\$21,268,271	100.0%	\$110,345,177	100.0%	\$131,613,448	100.0%

<sup>\*</sup>Equipment and real estate expenditures cannot be ascribed to a particular type of water.

Table 71 presents a summary of the average trip spending that took place in the Southeast region for saltwater fishing for the major expenditure categories. Trip and package spending is based on total spending in the region and is averaged across all days of saltwater fishing that took place in the region, regardless of where individual resident anglers lived or fished. By definition, this subregion includes only saltwater fishing. As a result, no equipment or real estate expenditures are included because multi-purpose, multi-use spending is not assigned to fishing activity by type of water. Overall, anglers fishing Southeast marine waters spent an average of \$302.32 per day of fishing on trip and package expenditures. Alaska residents fishing saltwater in the Southeast an average of \$118.24 in the region, compared to \$431.94 spent in the region by the average nonresident (Table 71).

Table 71.—Average TRIP spending per angler-day for Southeast marine waters, 2007\*.

	Resident Anglers	Nonresident Anglers	All Anglers		
		\$ per angler-day			
Trip Expenditures	\$118.24	\$288.55	\$218.18		
Package Expenditures	NA**	\$143.39	\$84.14		
Total trip spending	\$118.24	\$431.94	\$302.32		
	annual \$ per licensed angler				
Equipment Expenditures	NA***	NA***	NA***		
Real Estate Expenditures	NA***	NA***	NA***		

<sup>\*</sup>Estimates of average spending for detailed trip and equipment categories are presented in Appendix L.

<sup>\*</sup>Package expenditures refer specifically to travel packages purchased by nonresidents prior to departing on their trip to Alaska.

<sup>\*\*</sup>Package expenditures refer specifically to purchases of travel packages made by nonresidents prior to departing on their trip to Alaska.

<sup>\*\*\*</sup>Equipment and real estate expenditures cannot be ascribed to a particular type of water.

Anglers make a wide range of purchases to support their fishing activity including, trip-related expenditures and pre-purchased packages. Trip-related expenses refer to spending for temporary or consumable goods and services that anglers make while on a particular fishing trip. These range from food and lodging to travel expenses (e.g., fuel or air taxis), groceries, bait, and derby tickets. The full list of trip-related expenditure items and the amount spent by residents and nonresidents for Southeast marine sportfishing in 2007 is presented in Table 72.

Some nonresident anglers opt to pre-purchase a packaged fishing expedition from one of the many outfitters, guides and lodges in Alaska. Such packages typically offer a range of services for one price including transportation, guides, food and lodging. The survey of nonresidents asked anglers to report spending for any packages that they may have purchased and to indicate which amenities were included in the package.

A further breakdown of trip and package spending is presented in Table 72 which shows total spending by resident/nonresidents, and by guided/unguided fishing. No reliable estimates are available for resident anglers who took guided saltwater fishing trips in the region due to the small number of observations resulting from the angler expenditure survey. In this breakdown, the greatest amount of trip spending came from nonresident anglers on guided trips (\$52.4 million). Those anglers also spent the most on packages (\$32.6 million). Nonresident guided anglers accounted for 55.2% of all saltwater trip spending in the region in 2007 and 89.1% of all package spending. Similar detailed breakdowns of angler spending on a "per day" basis are provided in Appendix L.

Table 72.—Detailed total TRIP and PACKAGE spending by anglers fishing saltwater in Southeast Alaska, by residency and use of guides, 2007.

	RESI	DENT	NONRES	IDENT	ALL
	Guided*	Unguided	Guided	Unguided	ANGLERS
SALTWATER ANGLERS					
Trip Expenditures		_			
Fuel and oil		\$7,232,882	\$1,532,460	\$4,125,662	\$13,198,038
Guide and charter fees		\$84,305	\$21,505,868	\$305,377	\$23,761,150
Airfare to and from Alaska		\$0	\$9,469,274	\$4,852,526	\$14,321,800
Travel within Alaska		\$42,165	\$1,780,545	\$750,283	\$2,572,992
Fish processing & shipping		\$1,265,507	\$5,191,906	\$701,845	\$7,667,809
Rentals (boats, equipment, etc.)		\$58,241	\$740,166	\$1,005,864	\$1,871,986
Derby tickets	_	\$746,192	\$47,683	\$37,464	\$831,340
Boat launch and dock fees	-	\$4,126,563	\$2,686	\$493,202	\$4,647,823
Ice	-	\$223,702	\$21,528	\$67,288	\$312,518
Bait (natural bait only)	-	\$1,482,050	\$47,906	\$465,636	\$2,006,804
Groceries bought in stores	_	\$2,676,679	\$1,888,464	\$2,604,512	\$7,280,057
Restaurants, bars, and take-out	_	\$235,603	\$2,333,949	\$2,155,046	\$4,750,827
Overnight accommodations	-	\$104,796	\$4,109,380	\$2,393,836	\$6,608,012
Souvenirs and gifts		\$23,059	\$3,002,209	\$1,082,181	\$4,107,450
Other entertainment		\$44,412	\$537,568	\$254,262	\$836,243
Other		\$0	\$199,537	\$8,184	\$207,720
Total		\$18,346,157	\$52,411,128	\$21,303,169	\$94,982,568
Package Expenditures		NA NA	\$32,652,353	\$3,978,528	\$36,630,880

\*estimates are not reported due to small sample size.

#### **Economic Contributions**

Expenditures by anglers generate additional economic benefits throughout the Southeast Alaska regional economy. Multiplier effects have been estimated separately for trip spending and package spending, and for equipment and real estate spending combined. All economic contributions have been estimated separately for residents and nonresidents. The direct effects that are shown in the following tables reflect the economic activity associated with angler spending on saltwater sportfishing captured within the regional economy (i.e. consumer retail spending less the value of goods imported from outside of the regional economy). For that reason, the direct output values in the tables that follow are likely to be less than the reported angler spending for any specific category.

Table 73 presents economic contributions from trip and package spending by residency for sportfishing in Southeast Alaska marine waters. Since it is generally not possible to ascribe sportfishing equipment and real estate spending to a particular water type, the following estimates of the economic contribution of sportfishing in Southeast marine waters do not include the economic contributions from equipment and real estate spending occurring in the region. The economic contribution estimates shown in Table 73 represent only the trip and package expenditure economic effects, not a full representation of economic activity in the region from saltwater fishing. The \$131.6 million spent in the region by saltwater anglers generated \$37.5 million of income to 1,419 full and part time workers and proprietors who worked in the Southeast businesses that sold directly to those anglers. Spending by nonresidents accounted for 1,194 of the jobs and \$30.9 million of income, while resident saltwater sportfishing in Southeast Alaska accounted for 226 jobs and \$6.6 million in income (Table 73). Additional detailed estimates of the industry impacts in Southeast marine waters due to angler spending are presented in Appendices K and L.

Table 73.—Economic contributions of combined TRIP-RELATED and PACKAGE expenditures by anglers for sportfishing in Southeast marine waters, by residency, and guided/unguided, 2007.

	RESIDENT		NONRES	NONRESIDENT		TOTAL*	
	Guided**	Unguided	Guided	Unguided	Resident	Nonresident	ANGLERS
SALTWATER ANGLEI	RS_						
Direct effects							
Output		\$17,416,421	\$75,930,757	\$21,002,797	\$20,304,330	\$96,933,554	\$117,237,884
Income		\$5,641,068	\$24,148,749	\$6,817,503	\$6,556,676	\$30,966,252	\$37,522,928
Employment		192	953	241	226	1,194	1,419
Multiplier effects							
Output		\$6,665,412	\$33,423,682	\$8,436,905	\$7,940,081	\$41,860,587	\$49,800,668
Income		\$2,150,884	\$11,048,563	\$2,677,856	\$2,575,544	\$13,726,419	\$16,301,963
Employment		63	321	80	76	402	478
Total effects							
Output		\$24,081,833	\$109,354,439	\$29,439,702	\$28,244,411	\$138,794,141	\$167,038,552
Income		\$7,791,952	\$35,197,312	\$9,495,359	\$9,132,220	\$44,692,671	\$53,824,891
Employment		255	1,274	321	301	1,595	1,897

<sup>\*</sup> Total guided and unguided trip related and package spending.

<sup>\*\*</sup>Estimates are not reported due to small sample size.

In addition to the economic activity directly attributable to spending by anglers are the multiplier effects (indirect and induced effects) of that consumer spending. The indirect effect results from the increased economic activity among businesses that supply those businesses selling directly to the anglers. For example, the guide that sells directly to anglers, in turn, stimulates additional activity among the businesses that supply the guide's operations. The induced effect is the economic activity produced by household spending of income earned by workers in those businesses that are impacted by both the direct and indirect effects. Including both direct and multiplier effects, the \$131.6 million of spending by anglers fishing saltwater in Southeast Alaska produced \$53.8 million of income and supported 1,897 full and part-time jobs (Table 73).

The relationship between the direct effect (i.e. directly attributable to the spending by anglers) and the total economic activity that it creates is commonly presented in the form of a multiplier. In the case of saltwater sportfishing in Southeast Alaska, the output multiplier of 1.42 (total effect divided by direct effect) means every dollar of activity stimulated by angler spending creates an additional \$0.42 of economic activity elsewhere in the regional economy. In similar fashion, the income and employment multipliers are 1.43 and 1.34, respectively. This means that for every dollar of income paid to workers in businesses that sell directly to anglers and for every job in a business that sells directly to anglers there is an additional \$0.43 of income and 0.34 additional jobs in other businesses throughout the regional economy that are supported by angler spending.

Employment effects are of particular importance to the state and local economy. The jobs supported by angler expenditures are shown in Table 74 categorized by the industry in which the jobs occur. The jobs directly supported by angler spending largely reflect the types of expenditures made by anglers – trip expenditures for food, bait, lodging and guide services, maintenance of real estate used for sportfishing, and retail purchases of fishing and related equipment. Sector 11 in the following table includes farming and commercial fishing and hunting and is directly affected primarily through anglers' purchases of groceries and bait. The broader distribution of jobs indirectly supported by angler spending through the multiplier effect is the result of inter-industry trade flows and the expenditures of household income that comes from angler-supported jobs.

Table 74.–Employment (jobs) directly and indirectly supported by angler trip expenditures associated with saltwater fishing in Southeast Alaska in the Southeast region, by industry in which the employment occurs, 2007.

NAICS Industry Categories	Direct Effects	Multiplier Effects	Total Effects
11 Agriculture, forestry, fishing & hunting	46	30	76
21 Mining	6	1	7
22 Utilities	0	3	3
23 Construction	0	5	5
31-33 Manufacturing	18	7	25
42 Wholesale trade	57	8	65
48-49 Transportation & warehousing	97	37	134
44-45 Retail trade	174	56	230
51 Information	0	13	13
52 Finance & insurance	0	14	14
53 Real estate & rental	31	34	65
54 Professional- scientific & technical services	0	24	24
55 Management of companies	0	1	1
56 Administrative & waste services	2	38	39
61 Educational services	0	5	5
62 Health & social services	0	48	48
71 Arts- entertainment & recreation (e.g., guides)	574	16	590
72 Accommodation & food services	388	59	448
81 Other services	21	43	65
92 Government and public administration	6	36	42
Total Employment Impact	1,419	477	1,897

The economic activity directly and indirectly generated in the Southeast by saltwater anglers also produces tax revenues for local, state and federal governments. The IMPLAN model produces generalized estimates of tax revenues that are based on existing statewide ratios of output, income and employment to all tax revenues. It is estimated that saltwater sportfishing expenditures in Southeast Alaska in 2007 provided \$14.2 million and \$12.2 million of state/local and federal tax revenues, respectively (Table 75). Nonresidents accounted for 81.8% of all tax revenues in the Southeast region attributed to saltwater anglers.

Table 75.—Tax revenues generated by saltwater sportfishing trip spending in Southeast Alaska, 2007.

	State and Local Tax Revenues	Federal Tax Revenues	Total tax Revenues
RESIDENT ANGLERS			
Trip Expenditures (non-package)	\$2,713,584	\$2,077,440	\$4,791,024
Package Expenditures			\$0
Equipment & Real Estate Expenditures	NA	NA	NA
Subtotal	\$2,713,584	\$2,077,440	\$4,791,024
NONRESIDENT ANGLERS			
Trip Expenditures (non-package)	\$7,624,199	\$6,583,477	\$14,207,676
Package Expenditures	\$3,849,158	\$3,520,701	\$7,369,858
Equipment & Real Estate Expenditures	NA	NA	NA
Subtotal	\$11,473,357	\$10,104,178	\$21,577,534
ALL ANGLERS			
Trip Expenditures (non-package)	\$10,337,783	\$8,660,917	\$18,998,700
Package Expenditures	\$3,849,158	\$3,520,701	\$7,369,858
Equipment & Real Estate Expenditures	NA	NA	NA
Total	\$14,186,941	\$12,181,618	\$26,368,559

## SUMMARY AND DISCUSSION

This study was conducted to provide current information regarding the economic contributions made by sportfishing to Alaska and its regional economies. Natural resource managers typically need to include economic considerations when planning land and water resource management or providing input to regulatory and policy decision-makers. Effective management requires accurate information at a level of analysis that enables decision-makers to address specific issues that affect a particular population or region. This study (ADF&G Sportfishing Economic Study, 2007, by Southwick Associates Inc, subsequently referred to as ADF&G Economic Study 2007) addresses that need by measuring the economic contributions of sportfishing in key regions of Alaska, broken down by residency of the anglers, the type of water they fished, and whether the fishing was guided or unguided.

## **MAJOR FINDINGS**

In 2007, a total of 475,534 resident and nonresident licensed anglers fished 2.5 million days in Alaska and spent \$1.39 billion on licenses and stamps, trip-related expenditures, pre-purchased packages, and equipment and real estate used for fishing. An input-output model of Alaska and the study regions was used to estimate the total economic contributions that the spending created through the economic multiplier effect. The \$1.39 billion of angler spending in Alaska supported 15,879 jobs in Alaska and provided \$545.3 million of income (Table 76). Although residents spent more than nonresidents (\$733.3 million compared to \$652.5 million), it was the nonresident spending that made a larger economic contribution (more jobs and income). This was the result of differences in the kinds of expenditures made by residents and nonresidents. Resident anglers spent more of their money on equipment that is manufactured primarily outside of Alaska while nonresidents spent most their money on trip-related purchases and pre-arranged packages that include services such as guides, lodging and meals produced by Alaska businesses.

As anglers' dollars move from business to business in the Alaska economy, government revenues are generated by local property taxes, sales taxes, business taxes, excise taxes, etc. In total, \$123.1 million in tax revenues were generated for state and local governments in Alaska and \$123.2 million for the Federal government.

# Detailed fishing activity, spending and economic contributions are provided in the report for each study region. Some of the highlights include:

- Approximately three-quarters of all fishing and spending in Alaska took place in the Southcentral region. The \$988.6 million spent by anglers in that region:
  - Provided \$386.5 million of income
  - Supported 11,535 jobs
- In Cook Inlet, located within the Southcentral region, anglers spent \$733.0 million that:
  - Provided \$278.8 million of income
  - Supported 8,056 jobs
- Approximately one-fifth of all fishing and spending took place in the Southeast region. The \$273.5 million spent by anglers in that region:
  - Provided \$99.1 million of income
  - Supported 3,063 jobs
- Saltwater fishing is particularly important in the Southeast region. The \$131.6 million that was spent by marine anglers in that region:
  - Provided \$53.8 million of income
  - Supported 1,897 jobs
- Approximately 8% of all fishing and spending took place in the Interior region. The \$100.6 million spent by anglers in that region:
  - Provided \$28.6 million of income
  - Supported 923 jobs
- The regions of Alaska vary markedly in the types of fishing that they offer:
  - The Southeast region is dominated by saltwater fishing 81% of all fishing days were in saltwater.
  - The Interior region is dominated by freshwater fishing over 99% of all fishing days were in freshwater.
  - The Southcentral region offers a more balanced mix of fishing 66% freshwater and 34% saltwater.
- Most fishing in Alaska is unguided, although the use of guides ranges from 10% of angler days in the Interior to 34% in the Southeast.
- Guides are more likely to be used by nonresidents (43% of nonresident angler days compared to 9% of residents), and by anglers who fish saltwater (33% of angler days in saltwater compared to 16% in freshwater).

Table 76 summarizes the fishing activity in Alaska broken down by residents and nonresidents, along with their total spending by major category. More licenses are sold to nonresidents than residents, but not surprisingly, residents account for more of the total fishing activity in the state (days fished) since most nonresident fishing occurs during short-term visits. Residents spent more money in Alaska for fishing than nonresidents, but the nonresident spending makes a bigger contribution to the state's economy. This is due to the larger proportion of nonresident spending that is focused on goods and services that are provided directly by Alaskan businesses; whereas Alaska residents spend a larger percentage of their money on equipment manufactured outside of Alaska, resulting in less direct impact on the in-state economy.

Since little of the fishing equipment that Alaskans bought is produced within the state, much of that spending leaks quickly out of the Alaska economy and has a multiplier effect that is limited only to those in-state business that are involved in making the goods available to consumers in Alaska. That is why it is possible for industry output to be less than actual angler spending, as is the case with resident expenditures. The only industry output in Alaska that is associated with the purchase of goods produced elsewhere (e.g., boats, motors, vehicles, fishing tackle, etc.) is the wholesale and retail margin retained by those businesses in Alaska, and the transportation sector that moves the goods within the state.

Table 76.—Summary of economic contributions of sportfishing in Alaska, 2007.

	Resident	Nonresident	All			
	Anglers	Anglers	Anglers			
Licensed anglers*	190,644	284,890	475,534			
Days fished**	1,459,380	1,080,438	2,539,818			
Angler purchases:						
Licenses and Fees	\$6,627,558	\$16,536,955	\$23,164,513			
Trip-related (non-package)	\$219,829,151	\$347,358,999	\$567,188,150			
Packages	NA***	\$137,519,700	\$137,519,700			
Equipment	\$433,693,104	\$41,385,450	\$475,078,554			
Real Estate (construction & repair)	\$73,139,537	\$109,697,619	\$182,837,156			
Total dollars spent	\$733,289,349	\$652,498,723	\$1,385,788,072			
Total economic contribution, including multiplier effects:						
Industry output	\$668,729,829	\$938,863,856	\$1,607,593,685			
Income provided	\$223,373,937	\$321,882,151	\$545,256,088			
Jobs supported	6,442	9,437	15,879			

<sup>\*</sup> Source: Alaska Department of Fish and Game. Includes purchased licenses and issued PIDs (Personal Identification cards) and DAVs (Alaska Disabled American Veteran permits).

<sup>\*\*</sup>Totals reported here do not exactly match published statewide and regional totals from the 2007 SWHS due to the fact that it is not possible to identify the water type or guided/unguided status of some SWHS survey responses. The totals reported in this table reflect the summary of all days fished within a region that could be assigned to a specific residency, water type, and guided/unguided category. Approximately 4,177 days fished (0.16% of 2.5 million days) could not be assigned to a stratum and were not included in these totals.

<sup>\*\*</sup>Package expenditures refer specifically to purchases of travel packages made by nonresidents prior to departing on their trip to Alaska.

#### STUDY LIMITATIONS

The results presented in this report are based on a survey of anglers who obtained an Alaska sportfishing license in 2007, including Alaska residents and nonresidents. The estimates that were produced are subject to limitations that are inherent in survey research, including sampling errors, nonsampling errors, and response bias.

## **Sampling Errors**

Within the limits of the project budget, an effort was made to obtain a sufficient number of responses from a representative sample of licensed anglers to produce reliable estimates at the desired levels of analysis (guided/unguided by residency by water type within each geographic region). Estimates were not reported for any level of disaggregation where the number of observations was deemed insufficient (see Appendix J for a description of the usable responses within each analysis strata and the specific strata for which estimates are not reported in the study). Summary statistics, including standard deviation, for all data elements collected in the angler surveys are presented in Appendix G although they are not necessarily indicative of the margins of error associated with the final estimates contained in the report. This is due to the additional calculations required to estimate total spending in Alaska based on the survey responses. The procedures for estimating the economic contributions of angler spending included a number of steps and data transformations which made it prohibitively difficult to calculate the sampling error associated with each of the many estimates. For example, estimates of annual trip expenditures are the result of pooling survey estimates across multiple time periods, each with its own margin of error. The regional annual means for residents and nonresidents were disaggregated by type of water fished and whether or not the fishing was guided. The resulting mean expenditure estimates per angler-day for each time period were then multiplied by estimates of total annual angler-days in each region, which were derived from a separate survey conducted by ADF&G with its own set of sampling and nonsampling errors. The estimates of total spending for each data collection region were then aggregated into the study regions. The resulting annual expenditure totals were then processed through input-output models that introduce an additional layer of potential, but unknown estimation errors. The end result is a valid estimation of the economic contribution of sportfishing in Alaska, albeit with an unknown margin of error. Ultimately, the study design, survey methodology and sample sizes were developed carefully in consideration of the study objectives and the estimates produced by the study can be considered an accurate representation of the economic contributions of sportfishing to the Alaska economy.

# **Nonsampling Errors**

Potential nonsampling errors can arise from several sources that are unrelated to the precision of the estimates produced by the study but have the potential to introduce bias in the study results. These errors generally derive from the overall study design and implementation procedures. They can include the sample frame from which the mailing list was drawn, omission of important expenditure categories, data entry/coding/cleaning, the wording of questions in the survey instrument, and recall bias. Considerable care was taken in the design of the study to minimize these sources of error; however the following may have affected the results. Unlike sampling errors, their effects are not measurable.

Potential sources of nonsampling errors include:

- The survey instruments attempted to include all expenditures that are reasonably associated with fishing. However, in the compromise between collecting large amounts of detailed data and limiting the size of the questionnaire to encourage respondents to complete the survey, it is possible that some fishing related expenditures have not been included in the total estimates of anglers' spending. In an effort to ensure that the key types of expenditures were included in the study, development of the survey instrument included the participation and careful scrutiny by staff of ADF&G who are familiar with fishing activity in Alaska.
- A respondent's misinterpretation of survey questions can lead to the inclusion of
  inaccurate or inappropriate responses. In addition to the multiple layers of review and
  editing, the survey questionnaire was pre-tested by Alaska residents and nonresidents in a
  procedure that included both in-person and telephone feedback. Following completion of
  the survey, the responses were carefully reviewed to remove illogical responses as part of
  the process of identifying outlier values.
- The data entry procedures included a screening process for out-of-bound values to minimize data entry errors. In addition, all upper-bound values were compared to the original source questionnaires for verification. Final decisions regarding outlier values were made in conjunction with ADF&G staff.
- The sample frame for the study was defined as all anglers who were issued licenses to sport fishing in 2007, including those that were purchased, PIDs or DAVs in 2007. However, the sportfishing population includes other nonlicensed anglers who may also spend money as a result of their fishing activity. This includes primarily youth age 15 and younger who are not required to purchase a license. To an unknown extent, they are included in the survey when a respondent's expenditures include spending on meals, lodging, bait, equipment, etc. for an unlicensed angler. As a snapshot of all anglers' spending, the sample also includes respondents whose fishing expenses were paid by someone else and would report \$0.00 of spending. On the other hand, unlicensed anglers, such as youth, were not given an opportunity to complete their own survey. It is currently not possible to directly estimate the economic contribution of unlicensed anglers on the Alaska economy given how the DSF Statewide Harvest Survey is currently conducted and the difficultly of reaching the unlicensed population.
- The estimate of total angler days used in calculating estimated trip expenditures is based on the DSF Statewide Harvest Survey—which is a household survey used to estimate all sportfishing catch, effort and harvest in Alaska whether by licensed anglers or those who are not required to have a license (e.g., youth under age 15). It is not possible under the current study design to produce separate estimates of licensed and unlicensed angling effort (days fished) from the SWHS, so the total estimate of days fished in Alaska was used. The inclusion of unlicensed effort in the total expenditure calculation would have the impact of inflating the trip expenditure estimates by a small amount. However, this effect is likely balanced out by the fact that unlicensed angler expenditures were not captured as part of the angler survey used in this study due to the difficulty of reaching the unlicensed population of anglers.

### **Response Bias**

The results of the survey could be affected by the ability of respondents to accurately recall information regarding their past fishing activity, and from the decision by specific types of respondents within the sample to forego participating in the survey altogether. Potential sources of response bias errors include:

- Recall error is an issue in any survey that asks respondents to report information from an
  event that took place at some previous point in time. This study tried to limit this source of
  error by conducting two waves of survey mailings (in the Summer and Fall/Winter) to
  restrict the amount of time between receipt of the survey and the fishing trip on which
  respondents were asked to report.
- Telescoping error is the tendency of respondents to report significant events as having occurred more recently than they actually did. In the angler survey, this type of error might have led some respondents to reference a bigger or more expensive fishing trip as being the last one taken within the surveys' reference periods while forgetting about a smaller trip that might have occurred later. If this occurred, it could bias the reported expenditures upward. Telescoping is more often associated with shorter recall periods, so the survey recall periods were designed as a compromise to minimize both recall errors and telescoping errors.
- The ability of respondents to allocate expenditures for multi-purpose items to a specific use is a particular concern when it involves expensive items because small differences in the percent allocated to fishing might produce unexpected results. In the equipment category, purchases of boats is an example of this type of equipment expenditure, and at \$101.1 million spending by residents it is also the largest equipment expenditure(\$530 per angler). For comparison, total retail boat sales in 2002 (the latest year for which government statistics are available) were \$391 for every adult male age 18-64 living in Alaska that year (adjusted for inflation to 2007 dollars)<sup>41</sup>. By that comparison, \$530 per angler, for individuals who are more likely to buy a boat than the average resident, does not seem unreasonable.
- Surveys are subject to the possibility that the persons who choose to respond are systematically different from persons who do not respond and extrapolating the survey results may not accurately reflect the study population. Tests for such nonresponse bias can be made by comparing the responses of people who respond to the first mailing to those who respond to later mailings under the assumption that later responders are more like non-responders. An analysis of variance on all expenditure variables found a statistically significant difference (at the 95% confidence level) in the mean expenditure between mailings for only two of the more than 60 expenditure categories in the survey (ice purchased between May and June, and equipment expenditures for rods and reels). The lack of extensive differences between mailings, especially for expensive items such as boats and vehicles, suggests that there was no systematic nonresponse bias in the survey.

<sup>&</sup>lt;sup>41</sup> United States Census Bureau. 2005. Alaska: 2002 Economic census, retail trade geographic area series. U.S. Department of Commerce Economics and Statistics Administration, Washington, D. C.

- The study experienced unexpected problems in data collection due to the occurrence of duplicate identification numbers and a printing error. This is discussed in detail elsewhere in the report and summarized here, however, it is believed that the results of the study were not adversely impacted to a significant degree.
  - O During the first mailing of the Wave II surveys, respondents on the resident mailing list were issued the same set of identification numbers that were also issued to nonresidents. When completed surveys were returned, the mail house that received the surveys was not always able to identify the appropriate respondent (i.e., in cases where there was no postmark to distinguish resident from nonresidents). The problem was mitigated by having employees of Southwick Associates open the envelopes to make the resident-nonresident determination, and distinct identification numbers were issued for the second and third mailings. Still, an unknown number of anglers who did not respond to the first mailing were not sent additional mailings, while some anglers who responded to the first mailing received additional mailings.
  - o In the third mailing of the Wave II surveys, the questionnaires were printed on the same color paper as the second mailing. Since the paper color was intended to be the means for determining to which mailings the anglers responded, this limited the ability to measure overall response bias. This did not affect the first mailing and no response bias was detected between the first mailing and the subsequent (second and third) mailings.

#### INTERPRETING THE RESULTS

Sportfishing was an important part of the Alaska economy in 2007, providing jobs and income to many of Alaska's residents. Including the multiplier effects, sportfishing supported nearly 16,000 jobs and provided \$545.3 million of income. Table 77 places this into perspective by comparing the economic contribution of sportfishing to the total economic activity in each of the study regions. The table shows that sportfishing's relative contribution varies, by region. It is of greatest relative importance in the Southeast region where it accounted for approximately 4.8% of the total income and 6.4% of all jobs in the region. Conversely, it is of less relative importance in the Interior, where it provided 0.6% and 1.0% of all income and jobs, respectively (to maintain comparability, the estimates of output, income and employment due to sportfishing that were generated by using the IMPLAN models are compared to similar measures for all economic activity as reported by the IMPLAN models; the latest available IMPLAN economic data for Alaska is 2006).

Table 77.–Economic contributions from sportfishing in Alaska compared to total economic activity in each region.

	Angler	Total Economic Contribution*			
	Spending	Output	Income	Employment	
Southeast					
Sportfishing-related	\$273,504,804	\$295,260,010	\$99,141,694	3,063	
All economic activity**		\$4,927,726,000	\$2,047,290,000	47,799	
% sportfishing-related		6.0%	4.8%	6.4%	
Southcentral					
Sportfishing-related	\$988,558,119	\$1,165,545,513	\$386,463,733	11,535	
All economic activity**		\$38,271,608,000	\$14,289,604,000	300,535	
% sportfishing-related		3.0%	2.7%	3.8%	
Interior					
Sportfishing-related	\$100,560,637	\$86,712,709	\$28,563,882	923	
All economic activity**		\$12,568,651,000	\$4,784,721,000	88,667	
% sportfishing-related		0.7%	0.6%	1.0%	
Statewide Total					
Sportfishing-related	\$1,385,788,072	\$1,607,593,685	\$545,256,088	15,879	
All economic activity**		\$55,766,476,000	\$21,121,616,000	437,001	
% sportfishing-related		2.9%	2.6%	3.6%	

<sup>\*</sup>Including direct and multiplier effects.

The number of jobs supported by sportfishing statewide in 2007 (15,879) is essentially the same as the total number of jobs in the state's entire manufacturing sector in 2006 (approximately 15,900<sup>42</sup>). The economic importance of the two sources of economic activity are not directly

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<sup>\*\*</sup>Source: 2006 IMPLAN economic models.

<sup>&</sup>lt;sup>42</sup> Source: IMPLAN economic data for the state of Alaska, 2006.

comparable because the contribution of sportfishing includes the multiplier effect of angler spending (some of which is included in the manufacturing sector). Nevertheless, it is useful as a context for assessing the number of jobs directly and indirectly associated with sportfishing.

It also is useful to compare the results of the current survey to other studies of sportfishing in Alaska. The most comparable study was conducted by the Institute of Social and Economic Research at the University of Alaska Anchorage (ISER)<sup>43</sup>. That study was completed in 1999 and based on surveys of anglers conducted primarily in 1993. It found that anglers spent \$540 million on sportfishing activities during the 1993 fishing season, while this study (Southwick) estimates total spending at \$1.39 billion in 2007 (Table 78). To account for differences in the number of anglers, the totals are converted to expenditures per angler based on total license sales in the respective years. Finally, to account for inflation during the period between 1993 and 2007, the ISER average expenditures per angler are converted to 2007 dollars based on the U.S. Department of Labor's Consumer Price Index. The result shows that this study's estimates are 36.2% higher than the inflation-adjusted ISER estimate. Trends in angler expenditures have shown a steady rise in the purchases made by the average angler. This increased spending can be estimated by comparing the results of national angler surveys conducted by the U.S. Fish and Wildlife Service in 1991 and 2006<sup>44</sup>, <sup>45</sup>. Using the same procedures that were employed to compare the 1993 ISER study to the current study, the results show that the average angler in the U.S. spent 40.6% more in 2006 than in 1991, after adjusting for inflation. On that basis, the estimates of total spending produced by the current study appear to be comparable to the estimates of the earlier ISER study.

Table 78.—Comparison of spending estimates in the current study to an earlier study of sportfishing in Alaska, with adjustments for inflation, participation, and trends in angler spending.

Study	Year	TOTAL spending	# anglers	\$/angler	Inflation- adjusted \$/angler
ALASKA					
ISER	1993	\$540,000,000	362,093	\$1,491	\$2,140
ADF&G Economic Study 2007	2007	\$1,385,788,072	475,534		\$2,914
difference					36.2%
<u>us</u>					
USFWS	1991	\$24,000,000,000	35,578,000	\$675	\$997
USFWS	2006	\$42,000,000,000	29,952,000		\$1,402
difference					40.6%

<sup>43</sup> Haley, Sharman, et al. The Economics of Sportfishing in Alaska, Institute of Social and Economic Research, University of Alaska Anchorage, December 1999.

Census Bureau. 2001 National Survey of Fishing, Hunting, and Wildlife-Associated Recreation.

116

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<sup>&</sup>lt;sup>44</sup> U.S. Department of the Interior, Fish and Wildlife Service, and U.S. Department of Commerce, U.S.

Census Bureau. 2006 National Survey of Fishing, Hunting, and Wildlife-Associated Recreation.

<sup>&</sup>lt;sup>45</sup> U.S. Department of the Interior, Fish and Wildlife Service, and U.S. Department of Commerce, U.S.

More recently, the National Marine Fisheries Service (NMFS) released its state-level estimates of the economic contribution of recreational marine fishing 46. The NMFS study estimates that saltwater anglers in Alaska spent \$499.1 million in 2006, including trip and equipment expenditures, but not including expenditures for fishing packages. The ADF&G 2007 study did not allocate equipment expenditures by type of water fished, but an approximate allocation can be made on the basis of angler-days attributed to saltwater (41.4%). Using that allocation, equipment and real estate spending in this study that can be attributed to salt water is \$272.1 million. As a result, the NMFS study estimates of trip and equipment spending are consistently 11%-12% lower, and suggests that the estimates of total saltwater spending in both studies are somewhat similar (Table 79).

Table 79.—Comparison of spending for saltwater fishing in the current study to expenditure estimates from 2006 NMFS Marine Expenditure Survey.

	ADF&G Economic Study 2007	NMFS Study 2006*	Difference
Angler-Days	1,050,359	NA	-
Percent of Total Fishing	41.4%		
Trip spending (non-package)	292,069,076	257,572,000	11.8%
Equipment & real estate spending	272,085,515	241,544,000	11.2%
Total spending	564,154,590	499,116,000	11.5%

<sup>\*</sup> Gentner, Brad, and Scott Steinbeck. 2008. The economic contribution of marine angler expenditures in the United States, 2006.

Table 80 shows which industries in Alaska were affected by the expenditures made by sportfishing anglers in Alaska in 2007 (additional details of the industry impacts are provided in Appendix O). These figures represent the total contribution of angler spending, including the direct effect of spending and the multiplier effects. The largest employment impacts occur in sector 71 (arts, entertainment & recreation – e.g., guides), sector 44-45 (retail trade), and sector 72 (accommodation & food services). Sportfishing contributed 9,332 jobs in these three sectors, combined. That is more than 58% of the total number of jobs supported by sportfishing. These sectors are characterized by a significant level of seasonal and part-time employment which generally leads to lower average annual wages. Because average wages in these sectors are among the lowest of the major industry sectors, it is not surprising that the relative contribution of sportfishing to total income is less than its contribution to total jobs. This is made clear in Table 81 where it shows that sportfishing accounts for 3.7% of all jobs statewide, but only 2.6% of total income. This is a pattern that holds true for each of the regions, as well. The highest average wages in Alaska occur in the state's mining (primarily oil and gas), utilities, management, and construction industries and with the exception of construction, sportfishing contributes little to the economic activity in these high wage sectors.

<sup>&</sup>lt;sup>46</sup> Gentner, Brad, and Scott Steinback. 2008. The Economic Contribution of Marine Angler Expenditures in the United States, 2006. U.S. Dep. Commerce, NOAA Tech. Memo. NMFSF/SPO-94, 301 p.

Table 80.-Statewide industries affected by sportfishing anglers' expenditures in Alaska (including multiplier effects).

NAICS Industry Categories	Output	Income	Jobs
11 Ag, Forestry, Fish & Hunting	\$11,505,704	\$3,286,760	312
21 Mining	\$54,942,427	\$14,212,919	74
22 Utilities	\$18,749,962	\$4,251,608	43
23 Construction	\$190,667,861	\$73,329,024	1,089
31-33 Manufacturing	\$146,622,482	\$12,148,088	314
42 Wholesale Trade	\$80,807,105	\$30,540,597	561
48-49 Transportation & Warehousing	\$104,367,201	\$36,150,850	699
44-45 Retail trade	\$231,341,569	\$97,083,148	3,493
51 Information	\$22,910,578	\$5,290,195	107
52 Finance & insurance	\$32,419,273	\$9,357,746	162
53 Real estate & rental	\$79,230,449	\$26,247,581	744
54 Professional- scientific & tech services	\$39,361,393	\$17,073,359	345
55 Management of companies	\$7,403,223	\$3,193,217	41
56 Administrative & waste services	\$22,204,906	\$8,509,106	300
61 Educational services	\$3,309,539	\$1,537,386	66
62 Health & social services	\$49,750,195	\$27,119,391	571
71 Arts, entertainment, recreation (e.g., guides)	\$197,450,887	\$62,808,215	3,363
72 Accommodation & food services	\$182,588,793	\$61,785,118	2,530
81 Other services	\$50,645,014	\$18,680,740	612
92 Government & non NAICs	\$95,377,191	\$38,007,196	639
Total Angler Expenditures	\$1,621,655,731	\$550,612,229	16,065

The spending by nonresident anglers impacts somewhat different industries than those affected by resident anglers. Because nonresidents are more likely to employ guides, stay in temporary accommodations and eat meals in restaurants, a larger proportion of their impact affects those industries compared to residents. A larger proportion of residents' spending, on the other hand, is focused on purchasing equipment. As a result, resident spending has a relatively greater association with jobs and income in the retail trade sector than does spending by nonresidents. Interestingly, while the distribution of industries affected by anglers' spending varies significantly between residents and nonresidents, the total proportions represented by the three major sectors (retail trade; arts, entertainment & recreation; accommodation & food services) are nearly the same for both residents and nonresidents.

Table 81.–Statewide industry impacts due to resident and nonresident sportfishing anglers' expenditures in Alaska (including multiplier effects).

	RESIDEN	Γ ANGLERS	NONRESIDE	NT ANGLERS
NAICS Industry Categories	Income	Employment	Income	Employment
44-45 Retail trade	27.4%	33.7%	10.8%	13.5%
71 Arts, entertainment & recreation	7.6%	14.0%	14.1%	25.7%
72 Accommodation & food services	6.9%	10.0%	14.2%	19.7%
Subtotal	41.9%	57.7%	39.1%	58.9%
				'
All other industries	58.1%	42.3%	60.9%	41.1%
Total Angler Expenditures	100.0%	100.0%	100.0%	100.0%

Finally, the unique quality of Alaska's fishing experience attracts a large number of sport anglers from outside its borders. Almost 60% of the jobs and income attributed to sportfishing activity can be considered an economic impact to the state's economy that would not exist if not for sportfishing. In the Southeast region, nonresidents account for nearly three-fourths of the total economic contribution of sport anglers. Over 9,400 jobs and \$321.9 million of income are the result of the people that travelled to Alaska and subsequently went sportfishing. Directly comparable studies of other visitor activity in Alaska are not readily available, however, a recent study of visitors commissioned by the Alaska Department of Commerce found that people visiting Alaska for vacation/pleasure spent \$1.5 billion during the 2006/2007 tourism season (not including the cost of transportation to enter or exit the state.)<sup>47</sup> Based on this measure, the \$741 million spent by nonresident sport anglers in 2007 represents approximately 50% of all visitor spending, underscoring the importance of fishing to Alaska's tourism industry.

<sup>&</sup>lt;sup>47</sup> Alaska Visitor Statistics Program V: Fall/Winter 2006-2007 McDowell Group, Inc.

### APPENDIX A: WAVE I RESIDENT SURVEY MATERIALS

### Wave I – Resident Survey

- Questionnaire
- 1<sup>st</sup> mailing cover letter
- 2<sup>nd</sup> mailing cover letter
- 3<sup>rd</sup> mailing cover letter

Appendix A1.-Wave I Resident Survey Questionnaire.



### Alaska SportFishing Economic Survey

INTRODUCTION: Thank you for participating in this survey. The purpose of the survey is to quantify the economic contributions of sportfishing to Alaska's economy. "Sportfishing" is defined as the taking of fish and shellfish (clams, crabs, shrimp, etc) under Alaska sportfishing license and regulations, including personal use fishing (e.g. dipnetting). Please do not report activities and expenditures associated with subsistence fishing, which is defined as the taking or possession of fish, shellfish, or other fisheries resources for subsistence uses.

**Section A – GENERAL:** In this section, we are interested in learning some general information about your sportfishing activities in Alaska.

1.	How often do y	ou go sportfishing in Alaska? (check only one)
	☐ Every yea	ır
	□ Almost ev	very year
	□ Every few	years
	□ Infrequer	tly, once in several years
	☐ This is my	first year
2.	<b>Did you buy an</b> dipnetting, gill r	Alaska sportfishing license in 2007 <u>primarily</u> to go personal use fishing (e.g., netting, etc.)?
	□ Yes	□ No
3.		ble, please report the number of days you went sportfishing in November and 6. (Please enter "0" if you did not fish in this period.)
	Number of s	caltwater fishing days Number of freshwater fishing days
4.	Did you go spo	tfishing in Alaska between January 1st and June 30th, 2007? (check one)
	□ Yes	□ No → PLEASE SKIP TO SECTION D - PAGE 5
		HING ACTIVITY: In this section, we want to know how often you went sport ween January 1st and April 30th 2007 and between May 1st and June 30th, 2007.

\*\*\* PLEASE REFER TO THE ENCLOSED MAP TO ANSWER THESE QUESTIONS \*\*\*

Section B. SPORTFISHING ACTIVITY: In this section, we want to know how often you went sport fishing in Alaska between January 1st and April 30th 2007 and between May 1st and June 30th, 2007.

#### \*\*\* PLEASE REFER TO THE ENCLOSED MAP TO ANSWER THESE QUESTIONS \*\*\*

5. JANUARY through APRIL: How many days did you go freshwater and saltwater fishing in each region between January 1st and April 30th, 2007? Please fill in an answer for each region. (Enter "0" if you did not fish in that region.)

	Number of days of freshwater fishing (January thru April)	Number of days of saltwater fishing (January thru April)
EXAMPLE	3	O
Region A		
Region B		
Region C		
Region D		
Region E		No saltwater in region E
Region F		

6. MAY through JUNE: How many days did you go freshwater and saltwater fishing in each region between May 1st and June 30th, 2007? Please fill in an answer for each region. (Enter "0" if you did not fish in that region.)

	Number of days of <u>freshwater</u> fishing MAY thru JUNE	Number of days of <u>saltwater</u> fishing MAY thru JUNE
EXAMPLE	4	2
Region A		
Region B		
Region C		
Region D		
Region E		No saltwater in region E
Region F		

2

-continued-

**Section C – LAST TIME YOU WENT SPORTFISHING:** Now we would like to know about the <u>last time</u> you went sportfishing in Alaska <u>between January 1st and June 30th, 2007</u>. Please remember, "sportfishing" includes personal use (e.g., dipnetting) and shellfish fishing, but does not include subsistence fishing.

## \*\*\* <u>ALL</u> OF THESE QUESTIONS REFER TO THE LAST TIME YOU WENT SPORTFISHING IN ALASKA \*\*\* \*\*\* <u>BETWEEN JANUARY 1<sup>ST</sup> AND JUNE 30<sup>TH</sup>, 2007</u> \*\*\*

7.	When was the last (Check one.)	time you went sp	ortfishing in Ala	ska <u>between J</u>	ANUARY 1ST AN	ID JUNE 30TH, 2007?	
	☐ January	□ February	□ March	□ April	□ Мау	□ June	
	<u>trip</u> including fishing take a whole day. work, this would be	g days, travel day For example, if th	s and non-fishin e <u>last time</u> you v ay.	g days? Note went fishing yo	that single-day u only fished fo	ng was this <u>last fishin</u> trips do not need to r a few hours after	
9.	days of fishing as "1		-	-	vent fishing in A	<b>slaska?</b> (Count parti	lc
10.	Would you have tal ☐ Yes	ken this trip even i □ No	if you were unal	ble to go fishing	<b>g?</b> (check one)		
11.	Was this trip prima □ rod & reels		) I dipnetting (pe	rsonal use) [	□ shellfish fishir	ng	
12.	<b>Was this trip prima</b> □ in freshwate		) ] in saltwater	נ	⊐ in both fresh	water & saltwater	
13.	Did you pay for a g ☐ Yes	guide or a charter	r boat on this trip	o? (check one)	)		
14.	Where did this trip	occur? Please rel	er to the map ir	ncluded with th	is survey. (Che	ck all that apply.)	
	□ Region A		Region B		Region C		
	□ Region D		Region E		Region F		
			3 -contin	ued-			

15. Which species did you <u>target</u> the <u>last time</u> you went sportfishing in Alaska <u>between JANUARY</u> AND JUNE 30 <sup>TH</sup> , 2007? Please note the species you targeted may not necessarily be the fish accaught on your trip. (Check all that apply.)							
☐ King Salmon (Chinook)	□ Steelhead						
□ Silver Salmon (Coho)	$\square$ Trout (rainbow, cutthroat, lake trout, etc.)						
□ Red Salmon (Sockeye)	□ Halibut						
□ Other Salmon ( <i>Pink, Chum</i> )	□ Shellfish (clams, crab, shrimp,etc.)						
<ul> <li>Other freshwater (Dolly Varden, char, burbot, Arctic grayling, northern pike, sheefish, etc.)</li> </ul>	□ Other saltwater (lingcod, rockfish, shark, etc.)						

16. As best as possible, please tell us how much <u>you spent</u> and <u>where you bought</u> the following TRIP-RELATED items <u>ON THE TRIP DESCRIBED ABOVE</u>. Please write in the amount you spent and, referring to the included map, please circle the letter of the region or regions where you made the

purchase(s). We will ask about your equipment purchases in later questions.

Items purchased on last trip (between JANUARY 1 <sup>ST</sup> AND JUNE 30™, 2007).	Total Amount Spent	Region or regions where you bought the item
EXAMPLE	\$ 25	ABCDEF
Licenses and stamps	\$	ABCDEF
Fuel and oil for your car, truck, boat, airplane, ATV & other transportation	\$	A B C D E F
Guide and charter fees	\$	ABCDEF
Transportation services (air taxis, boat ferries, shuttle vans, taxi, etc.)	\$	A B C D E F
Boat launch and dockage fees	\$	A B C D E F
Ice	\$	A B C D E F
Bait (natural bait only, do not include lures)	\$	A B C D E F
Groceries, food, liquor bought in stores (not in restaurants or bars)	\$	A B C D E F
Restaurants, bars, and take-out food purchases	\$	A B C D E F
Heating and cooking fuels	\$	ABCDEF
Fish processing & shipping	\$	A B C D E F
Rentals (boats, equipment, autos, etc.)	\$	A B C D E F
Overnight accommodations (hotels/motels, B&B's, campgrounds, cabin rental, etc.)	\$	A B C D E F
Derby tickets	\$	A B C D E F
Souvenirs and gifts	\$	A B C D E F
Other entertainment expenses during fishing trip (movies, etc.)	\$	A B C D E F
Other (please specify):	\$	A B C D E F

-continued-

**Section D. FISHING EQUIPMENT EXPENDITURES:** In this section, we want to know about sportfishing and related equipment you bought **IN ALASKA during** the last 12 months, including equipment purchased for personal use (e.g., dipnet) and/or shellfish fishing.

17. As best as possible, please tell us how much <u>you</u> spent and <u>where</u> you bought the following fishing equipment and fishing related gear <u>in the last 12 months</u>. Only report purchases made in Alaska – exclude purchases from catalogs and web sites of out-of-state companies. <u>Include purchases you made for yourself and for others</u>. Write in the amount spent and, referring to the included map, circle the letter of the region or regions where you made the purchase(s). Since some items can be used for non-fishing activities, please estimate the percentage that the purchased fishing related gear is used for sportfishing.

Items purchased <u>WITHIN THE LAST 12 MONTHS</u> :	Total amount spent	whe	ere	on o you ite	bou m	-		% Used for sport fishing:
EXAMPLE	\$ 40	Αf	$^{\odot}$	C (	<b>D</b>	Ę	F	65 %
FISHING EQUIPMENT:								
Licenses and stamps	\$	Α	В	С	D	Е	F	100 %
Rods, reels, & components	\$	Α	В	С	D	Е	F	100 %
Fishing tackle (lines, leaders, lures, creels, stringers etc)	\$	Α	В	С	D	Е	F	100 %
Tackle boxes, cases to protect fishing equipment	\$	Α	В	С	D	Е	F	100 %
Depth finders, fish finders, other electronics	\$	Α	В	С	D	Е	F	100 %
Landing nets, dipnets & gillnets	\$	Α	В	С	D	Е	F	100 %
Miscellaneous fishing equipment (knives, scales, etc.)	\$	Α	В	С	D	Е	F	100 %
Shellfish fishing equipment (shovels, pots, buckets, etc.)	\$	Α	В	С	D	Е	F	100 %
Fish mounting (taxidermy)	\$	Α	В	С	D	Е	F	100 %
Books and magazines devoted to fishing	\$	Α	В	С	D	Е	F	100 %
FISHING-RELATED GEAR:								
Items to store/preserve fish (smoker, vacuum sealer, etc.)	\$	Α	В	С	D	Е	F	%
Coolers, fish boxes	\$	Α	В	С	D	Е	F	%
Clothing (fishing vest, raingear, head net, etc.)	\$	Α	В	С	D	Е	F	%
Boots, shoes, waders and other footwear	\$	Α	В	С	D	Е	F	%
Life jackets, survival suits or other PFDs,	\$	Α	В	С	D	Е	F	%
Boats, canoes, rafts, kayaks and other watercraft	\$	Α	В	С	D	Ε	F	%
Boat motors	\$	Α	В	С	D	Е	F	%
Trailers, hitches, and accessories	\$	Α	В	С	D	Е	F	%
Other boat parts and accessories	\$	Α	В	С	D	Е	F	%
Bear spray, bug spray, sun screen	\$	Α	В	С	D	Е	F	%
Firearms for personal protection	\$	Α	В	С	D	Е	F	%
Cameras, binoculars, sun glasses	\$	Α	В	С	D	Е	F	%
Tents, screen rooms, tarps, backpacks, sleeping bags	\$	Α	В	С	D	Е	F	%
Camping trailer (pop-up, self-contained, 5 <sup>th</sup> wheel)	\$	Α	В	С	D	Е	F	%
Other camping equipment (stoves, grills, lanterns, etc.)	\$	Α	В	С	D	Е	F	%
Vehicles (trucks, SUVs, motorhomes, etc.)	\$	Α	В	С	D	Е	F	%
Airplanes and related equipment	\$	Α	В	С	D	Е	F	%
ATVs, snowmachines	\$	Α	В	С	D	Е	F	%
Boat/camper registrations and excise taxes	\$	Α	В	С	D	Е	F	%
Vehicle, boat or airplane repair/maintenance	\$	Α	В	С	D	Е	F	%
Other (please specify):	\$	Α	В	С	D	Е	F	%

## 18. Please report how much <u>you</u> spent <u>IN THE PAST 12 MONTHS</u> related to any Alaska real estate that was purchased or used <u>primarily for sportfishing purposes</u>. (If you spent nothing, enter "0".)

Real estate spending for fishing within the <u>last 12 months</u> :	Amount spent	Please circle where the property is located
EXAMPLE	\$ 25,000	A B C D E F
Expenses related to real estate <b>owned</b> or <b>shared</b> for fishing (including mortgage payments, insurance, property taxes, etc.)	\$	ABCDEF
Expenses related to land, cabins and/or other real estate property <b>leased</b> or <b>rented</b> for fishing, including boat slips and storage	\$	ABCDEF
Maintenance and repairs to real estate property	\$	ABCDEF
Construction of cabins, sheds, and other buildings	\$	ABCDEF

**Section E. BACKGROUND INFORMATION:** To help us learn more about who fishes in Alaska, please answer these final questions. All answers you provide will be kept fully confidential. Your answers will help us evaluate the survey to best represent ALL Alaska anglers, even those not surveyed.

19.	. In which region is your primo	ıry residence? (Us	ing the map included with this survey, (check one.)
	□ Region A □ Region D	□ Region B □ Region E	□ Region C □ Region F
20.	. What is your gender?		
	□ Male	□ Female	
21.	. What year were your born?		19
22.	Which category best describ	es the highest lev	el of education you have completed? (Check one)
	Did not graduate from	high school	
	☐ High school graduate	or GED	
	□ 1-3 years college (som	ie college)	
	□ College graduate (ba	chelor degree or e	equivalent)
	□ Postgraduate, master'	s degree, doctora	te, law degree, other professional degree
23.	Which best describes your h	ousehold's annual	before-tax income? (Check one)
	□ Less than \$9,999		\$60,000 - \$69,999
	<b>\$10,000 - \$19,999</b>		\$70,000 - \$79,999
	\$20,000 - \$29,999		\$80,000 - \$89,999
	\$30,000 - \$39,999		\$90,000 - \$99,999
	\$40,000 - \$49,999		\$100,000 - \$249,999
	\$50,000 - \$59,999		\$250,000 or more

If you have any additional comments you wish to share about this study please provide them here:



### Thank you for your help and participation!

Please return the survey in the self- addressed, postage paid envelope. Even if you did not fish, your returned survey is <u>very</u> important to us.

By returning your completed survey, you are automatically entered into a drawing for a \$1,000 gift certificate redeemable at a local sporting goods retailer of your choice!

We wish you the best of success and safety in your future fishing efforts!

Appendix A2.–First mailing cover letter.

## STATE OF ALASKA

### DEPARTMENT OF FISH AND GAME

OFFICE OF THE COMMISSIONER

SARAH PALIN. GOVERNOR

P.O. BOX 115526 JUNEAU, AK 99811-5526 PHONE: (907) 465-4100 FAX: (907) 465-2332

(DATE)

Dear Alaska angler:

You have been selected to participate in a study aimed at measuring the economic significance of sport fishing in Alaska. You were selected to be part of this study as a result of having purchased an Alaska sport fishing license in 2007. Even if you did not fish in Alaska last year or do not really care about these issues, we would still like to hear from you. You are one of a small group of people that have been selected to represent the activities of all Alaskan anglers, so it is very important that we hear from you. The entire survey should only take you about 10 minutes to complete.

In appreciation for your help, our project contractor, Southwick Associates, Inc. will enter the names of all those who return a completed survey into a drawing for a \$1,000 gift certificate redeemable at a local sporting goods retailer of your choice.

When you have completed the survey, please return it in the enclosed <u>postage-paid</u> envelope. If you prefer, you can take the survey online at [TO BE DETERMINED]. Your user code for the online survey is XXYYZZ.

The information you provide will be kept confidential and will only used by ADF&G and the project contractor, Southwick Associates, Inc. (www.SouthwickAssociates.com) to produce summary estimates of the economic significance of sport fishing in Alaska. If you have any questions, comments or concerns about the study, you may contact the project manager, Bill Romberg, at 907-267-2366, or by e-mail at william.romberg@alaska.gov.

I'd like to thank you again for agreeing to participate in this important study.

Sincerely,

Kelly Hepler, Director,

Division of Sport Fish

Kes ball

Appendix A3.—Second mailing cover letter.

# STATE OF ALASKA

### DEPARTMENT OF FISH AND GAME

OFFICE OF THE COMMISSIONER

SARAH PALIN, GOVERNOR

P.O. BOX 115526 JUNEAU, AK 99811-5526 PHONE: (907) 465-4100 FAX: (907) 465-2332

{Date} Dear Alaska Angler,

In July, we sent you a survey about your sportfishing activities in Alaska during the first six months of 2007. Many of the other anglers who received the survey have already responded, but we have not yet received your completed questionnaire.

The Alaska Department of Fish and Game is conducting the survey to better understand the economic importance of sportfishing to the state's economy. Information about your experience is very valuable to this study because you have been chosen to represent many other sport anglers in Alaska. Therefore, it is very important that we hear from you.

Enclosed is a replacement questionnaire. Please take a few minutes to respond to the survey and return it in the postage-paid envelope. If you prefer, you can take the survey online at

www.southwickassociates.com/alaskasurvey. Your user code for the online survey is XXYYZZ. *Your responses to the survey questions will be kept strictly confidential* and will only be used by the research team to develop statistically-valid estimates of economic activity associated with sportfishing in Alaska.

In appreciation for your help, our project contractor, Southwick Associates, Inc. will enter the names of all those who return a completed survey into a drawing for a \$1,000 gift certificate redeemable at a local sporting goods retailer of your choice.

If you have any questions about the survey, you may contact the project manager, Bill Romberg, at 907-267-2366, or by e-mail at william.romberg@alaska.gov.

I'd like to thank you again for agreeing to participate in this important study.

Sincerely,

Charlie O. Swanton

Director,

Division of Sport Fish

Appendix A4.— Third mailing cover letter.

## STATE OF ALASKA

### DEPARTMENT OF FISH AND GAME

OFFICE OF THE COMMISSIONER

SARAH PALIN, GOVERNOR

P.O. BOX 115526 JUNEAU, AK 99811-5526 PHONE: (907) 465-4100 FAX: (907) 465-2332

{Date}

Dear Alaska Angler,

Approximately four weeks ago, we sent you a second questionnaire as part of our study to learn about sportfishing activities in Alaska. So far, we have received responses from many of the other anglers who were sent the survey, but your completed questionnaire has not been returned.

We are sending you another questionnaire since it is important that we obtain information from as many people in our sample as possible. Because your fishing experiences and expenditures are representative of many other anglers, the information that you provide will be invaluable for making an accurate assessment of sportfishing's economic impact to the state.

Please take a few minutes to complete the survey and return it in the postage-paid envelope. If you prefer, you can take the survey online at www.southwickassociates.com/alaskasurvey. Your user code for the online survey is XXYYZZ.

We realize that confidentiality is important to you, and it is important to us. *Your survey will not be shared with anyone outside of the research team.* 

Upon receiving your completed survey, our project contractor, Southwick Associates, Inc. will enter your name into a drawing for a \$1,000 gift certificate to be used at a local sporting goods store of your choice. If you have any questions about the survey, you may contact the project manager, Bill Romberg, at 907-267-2366, or by e-mail at william.romberg@alaska.gov.

I'd like to thank you again for agreeing to participate in this important study.

Sincerely,

Charlie O. Swanton

Director,

Division of Sport Fish

### APPENDIX B: WAVE II RESIDENT SURVEY MATERIALS

### Wave II – Resident Survey

- o Questionnaire
- o 1<sup>st</sup> mailing cover letter
- o 2<sup>nd</sup> mailing cover letter
- o 3<sup>rd</sup> mailing cover letter

Appendix B1.-Wave II Resident Survey Questionnaire.



## Alaska Sportfishing Economic Survey

Completing the survey online\* or by mail will enter your name into a drawing for a \$1,000 gift certificate redeemable at the local sporting-goods retailer of your choice!

INTRODUCTION: Thank you for participating in this survey. The purpose of the survey is to quantify the economic contributions of sportfishing to Alaska's economy. "Sportfishing" is defined as the taking of fish and shellfish (clams, crabs, shrimp, etc) under an Alaska sportfishing license and regulations, including personal use fishing (e.g. dipnetting). Please do not report activities and expenditures associated with subsistence fishing, which is defined as the taking or possession of fish, shellfish, or other fisheries resources for subsistence uses.

**Section A – GENERAL:** In this section, we are interested in learning some general information about your sportfishing activities in Alaska.

1. Did you buy an Alaska sportfishing license in 2007 primarily to go personal use fishing (e.g.,

	dipnetting, gill netting, etc.)?	J					•
	☐ Yes ☐ No						
2.	As best as possible, please report November and December, 2006.					Alaska durii	<u>ng</u>
	Number of saltwater fishing day	/s	N	lumber of fre	shwater fishi	ng days	
3.	As best as possible, please report each region of Alaska from May to enclosed map for the locations of any sport fishing between May 1st a	hrough Jun	e and from	July through	n October, 2	007. See th	e
MA	Y 1 <sup>st</sup> thru JUNE 30 <sup>th</sup> 2007	Region A	Region B	Region C	Region D	Region E	Region F
F	reshwater days						
	altwater days					No Saltwater in Region E	
JUI	LY 1 <sup>st</sup> thru OCTOBER 31 <sup>st</sup> 2007	Region A	Region B	Region C	Region D	Region E	Region F
F	reshwater days						

No Saltwater

in Region E

Appendix B1.-Page 2 of 8.

Saltwater days.....

<sup>\*</sup>If you prefer to take this survey online, please refer to the enclosed letter for your unique access code and web link.
-continued-

Section B1 – LAST TIME YOU WENT SPORTFISHING IN MAY THRU JUNE: Now we would like to know about the <u>last time</u> you went sportfishing in Alaska <u>between May 1<sup>st</sup> and June 30<sup>th</sup>, 2007</u>. Please remember, "sportfishing" includes personal use (e.g., dipnetting) and clamming/shellfish harvesting (e.g., crabs, shrimps), but does not include subsistence fishing.

## ALL OF THESE QUESTIONS REFER TO THE LAST TIME YOU WENT SPORTFISHING IN ALASKA \*\*\* BETWEEN MAY 1<sup>ST</sup> AND JUNE 30<sup>TH</sup>, 2007 \*\*\*

4.	<ol> <li>When was the last time you went s one.)</li> </ol>	portfishing in Alaska <u>betwee</u>	n MAY 1 <sup>st</sup> AND JUNE 30 <sup>th</sup> , 2007? (Check
	□ May □ June	☐ I did not fish betwee B2, page 4)	n May 1st and June 30th (Skip to section
	trip including fishing days, travel da	ys and non-fishing days? No e <u>last time</u> you went fishing I nted as "1" day.	g activities. How long was this fishing ote that single-day trips do not need to MAY thru JUNE you only fished for a few
6.	How many days did you <u>actually fis</u> 1 <sup>st</sup> AND JUNE 30 <sup>th</sup> ? (Count partial day Number of days actually	ys of fishing as "1" day).	ou went fishing in Alaska between MAY
7.	Would you have taken this trip even	if you were unable to go fish	ning? (check one)
	□ Yes □ No		
В.			
	□ rod & reel sportfishing	☐ dipnetting (personal use)	□ shellfish fishing
9.	Was this trip primarily (check one	<del>)</del> )	
	☐ in freshwater	□ in saltwater	☐ in both freshwater & saltwater
10.	D. Did you pay for a guide or a charte	r boat on this trip? (check one	e)
	☐ Yes ☐ No		
11.	1. Where did this trip occur? Please r	efer to the map included with	this survey. (Check all that apply )
		-	□ Region C
	-	-	□ Region F
		2	
		-continued-	

Appendix B1.–Page 3 of 8.

12. Which species did you <u>target</u> the <u>last time</u> you wen <u>JUNE 30<sup>TH</sup>, 2007</u> ? Please note the species you targ caught on your trip. (Check all that apply.)	t sportfishing in A eted may not nece	laska <u>bet</u> ssarily be	ween e the f	MAY ish a	<u>′ 1<sup>s⊤</sup></u> a nctua	and Ily	
☐ King Salmon (Chinook) ☐ Steelhead							
☐ Silver Salmon (Coho)	☐ Trout (rainbow, d	cutthroat, i	ake tro	οut, ε	etc.)		
☐ Red Salmon (Sockeye)	☐ Halibut	,		,	ŕ		
☐ Other Salmon ( <i>Pink</i> , <i>Chum</i> )	☐ Shellfish (clams, crab, shrimp,etc.)						
,	☐ Other saltwater (lingcod, rockfish, shark, etc.)						
			V				
RIP RELATED SPENDING IN MAY THRU JUNE					3		
<ol> <li>As best as possible, please tell us how much <u>you specified</u> TRIP-RELATED items <u>ON THE FISHING TRIP DESCR</u></li> </ol>	IBED ABOVE. Plea	ise write i	n the	amo	unt y		
and, referring to the included map, please circle the l purchase(s). We will ask about your equipment purch Items purchased on last trip (between MAY 1 <sup>ST</sup> AND JUNE 30 <sup>TH</sup> , 2007).		tions.	ion or bou	regi ght ti	ions '	where	
purchase(s). We will ask about your equipment purch Items purchased on last trip (between MAY 1 <sup>ST</sup> AND JUNE 30 <sup>TH</sup> , 2007). EXAMPLE:	nases in later ques Total Amount Spent	tions.	ion or bou	regi	ions '	where	
purchase(s). We will ask about your equipment purchased on last trip (between MAY 1 <sup>ST</sup> AND JUNE 30 <sup>TH</sup> , 2007).  EXAMPLE:  Licenses and stamps	Total Amount Spent	Reg	ion or bou	regight to	ions '	where em(s)	F F
purchase(s). We will ask about your equipment purchased on last trip (between MAY 1 <sup>ST</sup> AND JUNE 30 <sup>TH</sup> , 2007).  EXAMPLE:  Licenses and stamps	nases in later ques Total Amount Spent  \$ 25	Reg A A A	ion or boug B B	regight to	ions he ite	where em(s) E E	F F
purchase(s). We will ask about your equipment purchased on last trip (between MAY 1 <sup>ST</sup> AND JUNE 30 <sup>TH</sup> , 2007).  EXAMPLE:  Licenses and stamps	Total Amount Spent	Reg	ion or boug	regight to	ions he ite	where em(s)	F F F
purchase(s). We will ask about your equipment purchased on last trip (between MAY 1 <sup>ST</sup> AND JUNE 30 <sup>TH</sup> , 2007).  EXAMPLE:  Licenses and stamps  Fuel and oil for your car, RV, boat, airplane, etc.  Airline tickets.	nases in later ques Total Amount Spent  \$ 25	Reg A A A	ion or boug B B	regight the CCCCCC	ions he ite	where em(s)  E E E E	F F F F
Items purchased on last trip (between MAY 1 <sup>ST</sup> AND JUNE 30 <sup>TH</sup> , 2007).  EXAMPLE:  Licenses and stamps  Fuel and oil for your car, RV, boat, airplane, etc.  Airline tickets.  Commercial transportation (air taxi, ferry, shuttle, etc.)	Total Amount Spent  \$ 25 \$ \$	Reg A A A A	ion or boug	regight to	D D D D	where em(s)  E E E E E	F F F F
purchase(s). We will ask about your equipment purchased on last trip (between MAY 1 <sup>ST</sup> AND JUNE 30 <sup>TH</sup> , 2007).  EXAMPLE:  Licenses and stamps  Fuel and oil for your car, RV, boat, airplane, etc.  Guide and charter fees  Airline tickets.  Commercial transportation (air taxi, ferry, shuttle, etc.)  Fish processing & shipping.	Total Amount Spent  \$ 25 \$ \$ \$ \$ \$ \$	Reg A A A A A	ion or bough	regight to	be ite	where em(s)  E E E E E E E	F F F F F
Items purchased on last trip (between MAY 1 <sup>ST</sup> AND JUNE 30 <sup>TH</sup> , 2007).  EXAMPLE:  Licenses and stamps.  Fuel and oil for your car, RV, boat, airplane, etc.  Guide and charter fees  Airline tickets.  Commercial transportation (air taxi, ferry, shuttle, etc.)  Fish processing & shipping.  Rentals (boats, equipment, autos, etc.)	Total Amount Spent  \$ 25 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	Reg A A A A A A	ion or boug	regight to	D D D D	where em(s)  E E E E E E E	F F F F F
purchase(s). We will ask about your equipment purchased on last trip (between MAY 1 <sup>ST</sup> AND JUNE 30 <sup>TH</sup> , 2007).  EXAMPLE:  Licenses and stamps  Fuel and oil for your car, RV, boat, airplane, etc.  Guide and charter fees  Airline tickets.  Commercial transportation (air taxi, ferry, shuttle, etc.)  Fish processing & shipping.	Total Amount Spent  \$ 25 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	Reg A A A A A A A A A A A A A A A A A A A	ion or bough	regi ght ti	D D D D D	where em(s)  E E E E E E E	F F F F F F
Items purchased on last trip (between MAY 1 <sup>ST</sup> AND JUNE 30 <sup>TH</sup> , 2007).  EXAMPLE: Licenses and stamps Fuel and oil for your car, RV, boat, airplane, etc.  Guide and charter fees Airline tickets Commercial transportation (air taxi, ferry, shuttle, etc.) Fish processing & shipping.  Rentals (boats, equipment, autos, etc.)  Derby tickets  Boat launch and dockage fees	sases in later ques Total Amount Spent  \$ 25 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	Reg A A A A A A A A A A A A A A A A A A A	ion or boug	regight the CCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC	D D D D D D D D D D D D D D D D D D D	where E E E E E E E E E E E E E E E E E E	F F F F F F F
Items purchased on last trip (between MAY 1 <sup>ST</sup> AND JUNE 30 <sup>TH</sup> , 2007).  EXAMPLE:  Licenses and stamps  Fuel and oil for your car, RV, boat, airplane, etc.  Guide and charter fees  Airline tickets.  Commercial transportation (air taxi, ferry, shuttle, etc.)  Fish processing & shipping.  Rentals (boats, equipment, autos, etc.)	Total Amount Spent  \$ 25 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	Reg  A A A A A A A A A A A A A A A A A A	B B B B B B B B	regight til	D D D D D D D D D D D D D D D D D D D	where E E E E E E E E E E E E E E E E E E	F F F F F F F
Items purchased on last trip (between MAY 1 <sup>ST</sup> AND JUNE 30 <sup>TH</sup> , 2007).  EXAMPLE: Licenses and stamps Fuel and oil for your car, RV, boat, airplane, etc.  Guide and charter fees Airline tickets Commercial transportation (air taxi, ferry, shuttle, etc.) Fish processing & shipping.  Rentals (boats, equipment, autos, etc.)  Derby tickets  Boat launch and dockage fees	sases in later ques Total Amount Spent  \$ 25 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	Reg  A A A A A A A A A A A A A A A A A A	B B B B B B B B B	regight the CCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC	D D D D D D D D D D D D D D D D D D D	where E E E E E E E E E E E E E E E E E E	F F F F F F F
Items purchased on last trip (between MAY 1 <sup>ST</sup> AND JUNE 30 <sup>TH</sup> , 2007).  EXAMPLE: Licenses and stamps Fuel and oil for your car, RV, boat, airplane, etc.  Guide and charter fees Airline tickets Commercial transportation (air taxi, ferry, shuttle, etc.) Fish processing & shipping.  Rentals (boats, equipment, autos, etc.)  Derby tickets  Boat launch and dockage fees  Ce	Total Amount Spent  \$ 25 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	Reg  A A A A A A A A A A A A A A A A A A	ion or boug	regight til	bions he ite	where E E E E E E E E E E E E E E E E E E	F F F F F F F
Items purchased on last trip (between MAY 1 <sup>ST</sup> AND JUNE 30 <sup>TH</sup> , 2007).  EXAMPLE:  Licenses and stamps  Fuel and oil for your car, RV, boat, airplane, etc.  Guide and charter fees  Airline tickets.  Commercial transportation (air taxi, ferry, shuttle, etc.)  Fish processing & shipping.  Rentals (boats, equipment, autos, etc.)  Derby tickets  Boat launch and dockage fees  ce  Bait (natural bait only, do not include lures)	Total Amount Spent  \$ 25 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	Reg  A A A A A A A A A A A A A A A A A A	B B B B B B B B B B B B B B B B B B B	regii ght tl C C C C C C C C C	bons he ite	where E E E E E E E E E E E E E E E E E E	F F F F F F F
Items purchased on last trip (between MAY 1 <sup>ST</sup> AND JUNE 30 <sup>TH</sup> , 2007).  EXAMPLE:  Licenses and stamps  Fuel and oil for your car, RV, boat, airplane, etc.  Guide and charter fees  Airline tickets.  Commercial transportation (air taxi, ferry, shuttle, etc.)  Fish processing & shipping.  Rentals (boats, equipment, autos, etc.)  Derby tickets  Boat launch and dockage fees  ce  Bait (natural bait only, do not include lures)  Groceries, food, liquor bought in stores	sases in later ques Total Amount Spent  \$ 25 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	Reg  A A A A A A A A A A A A A A A A A A	B B B B B B B B B B B B B B B B B B B	reginate the control of the control	bons he ite	where E E E E E E E E E E E E E E E E E E	F F F F F F F F F
Items purchased on last trip (between MAY 1 <sup>ST</sup> AND JUNE 30 <sup>TH</sup> , 2007).  EXAMPLE: Licenses and stamps Fuel and oil for your car, RV, boat, airplane, etc.  Guide and charter fees Airline tickets Commercial transportation (air taxi, ferry, shuttle, etc.) Fish processing & shipping Rentals (boats, equipment, autos, etc.) Derby tickets Boat launch and dockage fees Ce Bait (natural bait only, do not include lures) Restaurants, bars, and take-out food purchases	sases in later ques Total Amount Spent  \$ 25 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	A	B B B B B B B B B B B B B B B B B B B	regight the CCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC	bons whe ite	where E E E E E E E E E E E E E E E E E E	F F F F F F F F F
Items purchased on last trip (between MAY 1 <sup>ST</sup> AND JUNE 30 <sup>TH</sup> , 2007).  EXAMPLE: Licenses and stamps Fuel and oil for your car, RV, boat, airplane, etc.  Guide and charter fees Airline tickets Commercial transportation (air taxi, ferry, shuttle, etc.) Fish processing & shipping.  Rentals (boats, equipment, autos, etc.)  Derby tickets  Boat launch and dockage fees  ce  Bait (natural bait only, do not include lures)  Groceries, food, liquor bought in stores  Restaurants, bars, and take-out food purchases  Dvernight lodging (hotels, campgrounds, cabins)	sases in later ques Total Amount Spent  \$ 25 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	Reg  A A A A A A A A A A A A A A A A A A	B B B B B B B B B B B B B B B B B B B	regight the CCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC	bions he ite	where E E E E E E E E E E E E E E E E E E	F F F F F F F F F F F F F F F F F F F
Items purchased on last trip (between MAY 1 <sup>ST</sup> AND JUNE 30 <sup>TH</sup> , 2007).  EXAMPLE:  Licenses and stamps  Fuel and oil for your car, RV, boat, airplane, etc.  Guide and charter fees  Airline tickets  Commercial transportation (air taxi, ferry, shuttle, etc.)  Fish processing & shipping  Rentals (boats, equipment, autos, etc.)  Derby tickets  Boat launch and dockage fees  Cee  Bait (natural bait only, do not include lures)  Groceries, food, liquor bought in stores  Restaurants, bars, and take-out food purchases  Dvernight lodging (hotels, campgrounds, cabins)  Souvenirs and gifts	sases in later ques Total Amount Spent  \$ 25 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	A	B B B B B B B B B B B B B B B B B B B		bons he ite	where E E E E E E E E E E E E E E E E E E	F F F F F F F F F

Section B2 – LAST TIME YOU WENT SPORTFISHING IN JULY THRU OCTOBER: In this section, we would like to know about the <u>last time</u> you went sportfishing in Alaska <u>between July 1<sup>st</sup> and October 31<sup>st</sup>, 2007</u>. Please remember, "sportfishing" includes personal use (e.g., dipnetting) and clamming/shellfish fishing including crab, but does not include subsistence fishing.

## <u>ALL</u> OF THESE QUESTIONS REFER TO THE LAST TIME YOU WENT SPORTFISHING IN ALASKA \*\*\* BETWEEN July 1<sup>ST</sup> AND October 31<sup>ST</sup>, 2007 \*\*\*

14		time you went s	portfishing in Alas	ka <u>between JUL</u>	Y 1st AND OCTOBER 31st, 2007?
	(Check one.) □ July	□ August	□ September	□ October	☐ I did not fish between July 1st and Oct 31st (Skip to section C, page 6)
15.	<u>trip</u> including fishin take a whole day. F a few hours after wo	g days, travel da or example, if th ork, this would b	ys and non-fishing e <u>last time</u> you we	days? Note that the standard of the standard o	vities. How long was this fishing nat single-day trips do not need to thru OCTOBER you only fished for
16.	How many days did	you <u>actually fisl</u>	h during this last ti	me that you we	nt fishing in Alaska between JULY
		of days actually			
17.	Would you have tak	en this trip even	if you were unable	to go fishing?	(check one)
18.	□ Yes  Was this trip <i>prima</i>	□ No			
	□ rod & reel sp	ortfishing	□ dipnetting (perso	nal use) 🛛	shellfish fishing
19.	Was this trip <u>prima</u>	<mark>arily</mark> (check one	e)		
	□ in freshwatel		□ in saltwater		in both freshwater & saltwater
20.	Did you pay for a g	juide or a charte	r boat on this trip?	(check one)	
	□ Yes	□ No			
21.	Where did this trip	occur? Please r	efer to the map inc	luded with this	survey. (Check all that apply.)
	□ Region A		☐ Region B	□ Re	egion C
	☐ Region D		☐ Region E	□ Re	egion F

-continued-

22. Which species did you <u>target</u> the <u>last time</u> you we	ent sportfishing in Al	laska <u>bet</u>	ween	JUL'	<u>Y 1<sup>ST</sup></u>	AND	
OCTOBER 31 <sup>ST</sup> , 2007? Please note the species yo caught on your trip. (Check all that apply.)	ou targeted may not	necessar	ily be	tne	risn a	ictuai	lly
☐ King Salmon (Chinook)	☐ Steelhead						
☐ Silver Salmon (Coho)	☐ Trout (rainbow, c	outthroat l	aka tr	out e	ato 1		
· · · ·	•	ullinoal, i	ane iii	our, e	7(U.)		
☐ Red Salmon (Sockeye)	☐ Halibut	نسمام مامسم		_ \			
☐ Other Salmon (Pink, Chum)	☐ Shellfish (clams, crab, shrimp,etc.)				4- 1		
<ul> <li>Other freshwater (Dolly Varden, char, burbot, Arctic grayling, northern pike, sheefish, etc.)</li> </ul>					ark, e	IC.)	
Arollo graylling, Horthern pike, Sheelish, etc.)		4					
				II.			
			$\Delta X$	$\Delta \Delta$			
TRIP RELATED SPENDING IN JULY THRU OCTOBE	R \	$\Omega M$	/ \				
	A [ _ ]	14-71			V		
23. As best as possible, please tell us how much you s	pent and where you	bought t	he fol	lowii	าต		
TRIP-RELATED items ON THE TRIP DESCRIBED AS						and,	
referring to the included map, please circle the lette	er of the region or re	gions wh	ere y	ou m	ade t	he	
purchase(s). We will ask about your equipment pur		tions.					
	Total						
Itome nurchaeod on lact trin	Amount	) Pog	ian ai	rogi	one i	whore	^ V/^II
(between JULY 1 <sup>ST</sup> AND OCTOBER 31 <sup>ST</sup> , 2007).	Amount Spent	Reg	ion or bou	r regi ght ti	ions <sup>v</sup> he ite	where m(s)	e you
Items purchased on last trip (between JULY 1 <sup>ST</sup> AND OCTOBER 31 <sup>ST</sup> , 2007).	Spent		bou	ght t	he ite	m(s)	
EXAMPLE:	\$ 25	Α	bou <sub>9</sub>	ght t	he ite	em(s)	F
EXAMPLE: Licenses and stamps	\$ 25 \$	A	B B	C C	D D	em(s) E	F
EXAMPLE:  Licenses and stamps  Fuel and oil for your car, RV, boat, airplane, etc	\$ 25 \$ \$	A A A	B B B	C C C	D D D	em(s) E E	F F
EXAMPLE:  Licenses and stamps  Fuel and oil for your car, RV, boat, airplane, etc  Guide and charter fees	\$ 25 \$ \$ \$	A A A	B B B B	C C C	D D D D	E E E E	F F F
EXAMPLE:  Licenses and stamps	\$ 25 \$ \$ \$ \$ \$ \$ \$	A A A A	B B B B	C C C	D D D D	E E E E E	F F F F
EXAMPLE:  Licenses and stamps  Fuel and oil for your car, RV, boat, airplane, etc  Guide and charter fees  Airline tickets  Commercial transportation (air taxi, ferry, shuttle, etc.)	\$ 25 \$ \$ \$ \$ \$	A A A A A	B B B B B	C C C C	D D D D	E E E E E	F F F F
EXAMPLE:  Licenses and stamps  Fuel and oil for your car, RV, boat, airplane, etc  Guide and charter fees  Airline tickets  Commercial transportation (air taxi, ferry, shuttle, etc.)  Fish processing & shipping	\$ 25 \$ \$ \$ \$ \$ \$	A A A A A A	B B B B B B	C C C C C C	D D D D D	E E E E E	F F F F
EXAMPLE:  Licenses and stamps  Fuel and oil for your car, RV, boat, airplane, etc  Guide and charter fees  Airline tickets  Commercial transportation (air taxi, ferry, shuttle, etc.)  Fish processing & shipping  Rentals (boats, equipment, autos, etc.)	\$ 25 \$ \$ \$ \$ \$ \$	A A A A A A	B B B B B B	C C C C C C C	D D D D D D D D D D D D D D D D D D D	E E E E E E	F F F F F
EXAMPLE:  Licenses and stamps  Fuel and oil for your car, RV, boat, airplane, etc  Guide and charter fees  Airline tickets  Commercial transportation (air taxi, ferry, shuttle, etc.)  Fish processing & shipping  Rentals (boats, equipment, autos, etc.)  Derby tickets	\$ 25 \$ \$ \$ \$ \$ \$ \$	A A A A A A A	B B B B B B B	C C C C C C C C	D D D D D D D D D D D D D D D D D D D	E E E E E E E E E E E E E E E E E E E	F F F F F F
EXAMPLE:  Licenses and stamps	\$ 25 \$ \$ \$ \$ \$ \$ \$ \$ \$	A A A A A A A	B B B B B B B B B B B B B B B B B B B	C C C C C C C C C	D D D D D D D D D D D D D D D D D D D	E E E E E E E E E E E E E E E E E E E	F F F F F F
EXAMPLE:  Licenses and stamps  Fuel and oil for your car, RV, boat, airplane, etc  Guide and charter fees  Airline tickets  Commercial transportation (air taxi, ferry, shuttle, etc.)  Fish processing & shipping  Rentals (boats, equipment, autos, etc.)  Derby tickets  Boat launch and dockage fees  Ice	\$ 25 \$ \$ \$ \$ \$ \$ \$	A A A A A A A	B B B B B B B B	C C C C C C C C C C C C C C C C C C C	D D D D D D D D D D D D D D D D D D D	E E E E E E E E E E E E E E E E E E E	F F F F F F F
EXAMPLE:  Licenses and stamps  Fuel and oil for your car, RV, boat, airplane, etc  Guide and charter fees  Airline tickets  Commercial transportation (air taxi, ferry, shuttle, etc.)  Fish processing & shipping  Rentals (boats, equipment, autos, etc.)  Derby tickets  Boat launch and dockage fees  Ice  Bait (natural bait only, do not include lures)	\$ 25 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	A A A A A A A	B B B B B B B B B B B B B B B B B B B	C C C C C C C C C	D D D D D D D D D D D D D D D D D D D	E E E E E E E E E E E E E E E E E E E	F F F F F F
EXAMPLE:  Licenses and stamps  Fuel and oil for your car, RV, boat, airplane, etc  Guide and charter fees  Airline tickets  Commercial transportation (air taxi, ferry, shuttle, etc.)  Fish processing & shipping  Rentals (boats, equipment, autos, etc.)  Derby tickets  Boat launch and dockage fees  Ice	\$ 25 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	A A A A A A A A	B B B B B B B B B B		D D D D D D D D D D D D D D D D D D D	Em(s) E E E E E E E E E E E E E E E E E E E	F F F F F F F
EXAMPLE:  Licenses and stamps  Fuel and oil for your car, RV, boat, airplane, etc  Guide and charter fees  Airline tickets  Commercial transportation (air taxi, ferry, shuttle, etc.)  Fish processing & shipping  Rentals (boats, equipment, autos, etc.)  Derby tickets  Boat launch and dockage fees  Ice  Bait (natural bait only, do not include lures)  Groceries, food, liquor bought in stores	\$ 25 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	A A A A A A A A A	B B B B B B B B B B B B B B B B B B B		D D D D D D D D D D D D D D D D D D D		F F F F F F F F
EXAMPLE:  Licenses and stamps  Fuel and oil for your car, RV, boat, airplane, etc  Guide and charter fees  Airline tickets  Commercial transportation (air taxi, ferry, shuttle, etc.)  Fish processing & shipping  Rentals (boats, equipment, autos, etc.)  Derby tickets  Boat launch and dockage fees  Ice  Bait (natural bait only, do not include lures)  Groceries, food, liquor bought in stores  Restaurants, bars, and take-out food purchases	\$ 25 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	A A A A A A A A A	B B B B B B B B B B B B B B B B B B B		D D D D D D D D D D D D D D D D D D D	E E E E E E E E E E E E E E E E E E E	F F F F F F F F F
EXAMPLE:  Licenses and stamps	\$ 25 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	A A A A A A A A A A	B B B B B B B B B B B B B B B B B B B		D D D D D D D D D D D D D D D D D D D		F F F F F F F F F
EXAMPLE:  Licenses and stamps  Fuel and oil for your car, RV, boat, airplane, etc  Guide and charter fees Airline tickets  Commercial transportation (air taxi, ferry, shuttle, etc.)  Fish processing & shipping  Rentals (boats, equipment, autos, etc.)  Derby tickets  Boat launch and dockage fees Ice  Bait (natural bait only, do not include lures)  Groceries, food, liquor bought in stores  Restaurants, bars, and take-out food purchases  Overnight lodging (hotels, campgrounds, cabins)  Souvenirs and gifts	\$ 25 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	A A A A A A A A A A A A A A A A A A A	B B B B B B B B B B B B B B B B B B B		D D D D D D D D D D D D D D D D D D D		F F F F F F F F F F

Section C. FISHING EQUIPMENT EXPENDITURES: In this section, we want to know about sportfishing and related equipment you bought <u>IN ALASKA during the last 12 months</u>, including equipment purchased for personal use (e.g., dipnet) and/or shellfish fishing.

24. As best as possible, please tell us how much YOU spent and <a href="where">where</a> you bought the following fishing equipment and fishing related gear in the last 12 months. Only report purchases made in Alaska – exclude purchases from catalogs and web sites of out-of-state companies. <a href="Include purchases YOU made for yourself">Include purchases YOU made for yourself</a> and for others. Write in the amount spent and, referring to the included map, circle the letter of the region or regions where you made the purchase(s). Since some items can be used for non-fishing activities, please estimate the percentage that the purchased fishing related gear is used for sportfishing.

	an	otal nount pent		Region or regions where you bought the item(s)			em(s) for spo		% Used for sport fishing:		
EXAMPLE: Clothing	\$	40		А	<b>B</b>	C (	<b>(D)</b>	Е	F	. ]	65 %
FISHING EQUIPMENT:											
Licenses and stamps	\$			Α	В	С	D	E	F		100 %
Rods, reels, & components	\$			Α	В	С	D	Е	F		100 %
Fishing tackle (lines, leaders, lures, creels, stringers etc)	\$			Α	В	С	D	Е	F		100 %
Tackle boxes, cases to protect fishing equipment	\$			Α	В	С	D	Е	F		100 %
Depth finders, fish finders, other electronics	\$			Α	В	С	D	Ε	F		100 %
Landing nets, dipnets & gillnets	\$			Α	В	С	D	Е	F		100 %
Miscellaneous fishing equipment (knives, scales, etc.)	\$			Α	В	С	D	Е	F		100 %
Shellfish fishing equipment (shovels, pots, buckets, etc.)	\$			Α	В	С	D	Е	F		100 %
Fish mounting (taxidermy)	\$			Α	В	С	D	Ε	F		100 %
Books and magazines devoted to fishing	\$			Α	В	С	D	Ε	F		100 %
FISHING-RELATED GEAR OR OTHER NON-FISHING P	URC	HASE	<b>S</b> : ]								
Items to store/preserve fish (smoker, vacuum sealer, etc.)	\$			Α	В	С	D	Ε	F		%
Coolers, fish boxes	\$			Α	В	С	D	Ε	F		%
Clothing (fishing vest, raingear, head net, etc.)	\$			Α	В	С	D	Ε	F		%
Boots, shoes, waders and other footwear	\$			Α	В	С	D	Е	F		%
Life jackets, survival suits or other PFDs,	\$			Α	В	С	D	Ε	F		%
Boats, canoes, rafts, kayaks and other watercraft	\$			Α	В	С	D	Ε	F		%
Boat motors	\$			Α	В	С	D	Е	F		%
Trailers, hitches, and accessories	\$			Α	В	С	D	Ε	F		%
Other boat parts and accessories	\$			Α	В	С	D	Е	F		%
Bear spray, bug spray, sun screen	\$			Α	В	С	D	Ε	F		%
Firearms for personal protection	\$			Α	В	С	D	Ε	F		%
Cameras, binoculars, sun glasses	\$			Α	В	С	D	Ε	F		%
Tents, screen rooms, tarps, backpacks, sleeping bags	\$			Α	В	С	D	Ε	F		%
Camping trailer (pop-up, self-contained, 5 <sup>th</sup> wheel)	\$			Α	В	С	D	Ε	F		%
Other camping equipment (stoves, grills, lanterns, etc.)	\$			Α	В	С	D	Ε	F		%
Vehicles (trucks, SUVs, motorhomes, etc.)	\$			Α	В	С	D	Ε	F		%
Airplanes and related equipment	\$			Α	В	С	D	Е	F		%
ATVs, snowmachines	\$			Α	В	С	D	Е	F		%
Boat/camper registrations and excise taxes	\$			Α	В	С	D	Ε	F		%
Vehicle, boat or airplane repair/maintenance	\$		Ī	Α	В	С	D	Е	F	Ī	%
Other, including non-fishing related purchases (please specify):	\$			Α	В	С	D	Е	F		%

## 25. Please report how much <u>you</u> spent <u>IN THE PAST 12 MONTHS</u> related to any Alaska real estate that was purchased or used <u>primarily for sportfishing purposes</u>.

	Amount spent	Please circle where the property is located
EXAMPLE: Maintenance and repairs	\$ 2,500	A B C D E F
Expenses related to real estate <b>owned</b> or <b>shared</b> for fishing (including mortgage payments, insurance, property taxes, etc.)	\$	ABCDEF
Expenses related to land, cabins and/or other real estate property leased or rented for fishing, including boat slips and storage	\$	ABCDEF
Maintenance and repairs to real estate property	\$	ABCDEF
Construction of cabins, sheds, and other buildings	\$	ABCDEF

**Section D. BACKGROUND INFORMATION:** To help us learn more about who fishes in Alaska, please answer these final questions. All answers you provide will be kept fully confidential. Your answers will help ensure that the survey represents ALL Alaska anglers, even those not surveyed.

26.	In which region is your prima	nry residence? (Pl	ease use the map included with this survey check one,
	□ Region A	☐ Region B	☐ Region C
	☐ Region D	☐ Region E	☐ Region F
27.	What is your gender?		
	□ Male	□ Female	
<b>2</b> 8.	What year were you born?		19
29.	Which category best describ  ☐ Did not graduate from hi	-	el of education you have completed? (Check one)
	☐ High school graduate or	=	
	☐ 1-3 years college (some		
	☐ College graduate (bache	<del>-</del> /	valent)
	• • •		aw degree, other professional degree
	<u> </u>	aogico, acotorato, r	am degree, editer protectional degree
30.	Which best describes your h	ousehold's annua	I, before-tax income? (Check one)
	☐ Less than \$9,999		□ \$60,000 - \$69,999
	□ \$10,000 - \$19,999		□ \$70,000 - \$79,999
	□ \$20,000 - \$29,999		□ \$80,000 - \$89,999
	□ \$30,000 - \$39,999	I	□ \$90,000 - \$99,999
	□ \$40,000 - \$49,999	I	□ \$100,000 - \$249,999
	□ \$50,000 - \$59,999	1	□ \$250,000 or more

7

Generally	Neutral	Coporally	
Dissatisfied	rosiiai	Generally Satisfied	Very Satisfied
			I comments you wish to share about this study ple

Thank you for your help and participation!

Please return the survey in the self- addressed, postage paid envelope. Even if you did not fish, your returned survey is <u>very</u> important to us.

We wish you the best of success and safety in your future fishing efforts!

Appendix B2.–First mailing cover letter.

# STATE OF ALASKA

### DEPARTMENT OF FISH AND GAME

OFFICE OF THE COMMISSIONER

SARAH PALIN, GOVERNOR

P.O. BOX 115526 JUNEAU, AK 99811-5526 PHONE: (907) 465-4100 FAX: (907) 465-2332

{DATE}

Dear Alaska Angler:

You have been selected to participate in a study aimed at measuring the economic significance of sport fishing in Alaska. You were selected to be part of this study as a result of having purchased an Alaska sport fishing license in 2007. Even if you did not fish in Alaska this year or do not really care about these issues, we would still like to hear from you. You are one of a small group of people that have been selected to represent the activities of all Alaskan anglers, so it is very important that we hear from you.

In appreciation for your help, our project contractor, Southwick Associates, Inc. will enter the names of all those who return a completed survey into a drawing for a \$1,000 gift certificate redeemable at a local sporting goods retailer of your choice.

When you have completed the survey, please return it in the enclosed <u>postage-paid</u> envelope. If you prefer, you can take the survey online at www.southwickassociates.com/alaskasurvey. Your user code for the online survey is XXYYZZ.

The information you provide will be kept confidential and will only used by ADF&G and the project contractor, Southwick Associates, Inc. (www.SouthwickAssociates.com) to produce summary estimates of the economic significance of sport fishing in Alaska. If you have any questions, comments or concerns about the study, you may contact the project manager, Bill Romberg, at 907-267-2366, or by e-mail at william.romberg@alaska.gov.

Thank you again for agreeing to participate in this important study.

Sincerely,

Charlie O. Swanton

Director, Division of Sport Fish

Appendix B3.–Second mailing cover letter.

# STATE OF ALASKA

### DEPARTMENT OF FISH AND GAME

OFFICE OF THE COMMISSIONER

SARAH PALIN, GOVERNOR

P.O. BOX 115526 JUNEAU, AK 99811-5526 PHONE: (907) 465-4100 FAX: (907) 465-2332

{Date} Dear Alaska Angler,

In November, we sent you a survey about your sportfishing activities in Alaska during May through October of 2007. Many of the other anglers who received the survey have already responded, but we have not yet received your completed questionnaire.

The Alaska Department of Fish and Game is conducting the survey to better understand the economic importance of sportfishing to the state's economy. Information about your experience is very valuable to this study because you have been selected at random to represent many other sport anglers in Alaska. Therefore, it is very important that we hear from you.

Enclosed is a replacement questionnaire. Please take a few minutes to respond to the survey and return it in the postage-paid envelope. If you prefer, you can take the survey online at

www.southwickassociates.com/alaskasurvey1. Your user code for the online survey is XXYYZZ. *Your responses to the survey questions will be kept strictly confidential* and will only be used by the research team to develop statistically-valid estimates of economic activity associated with sportfishing in Alaska.

In appreciation for your help, our project contractor, Southwick Associates, Inc. will enter the names of all those who return a completed survey into a drawing for a \$1,000 gift certificate redeemable at a local sporting goods retailer of your choice.

If you have any questions about the survey, you may contact the project manager, Bill Romberg, at 907-267-2366, or by e-mail at william.romberg@alaska.gov.

I'd like to thank you again for agreeing to participate in this important study.

Sincerely,

Charlie O. Swanton

Director, Sport Fish Division

Appendix B4.—Third mailing cover letter.

# STATE OF ALASKA

#### DEPARTMENT OF FISH AND GAME

OFFICE OF THE COMMISSIONER

SARAH PALIN, GOVERNOR

P.O. BOX 115526 JUNEAU, AK 99811-5526 PHONE: (907) 465-4100 FAX: (907) 465-2332

{Date} Dear Alaska Angler,

Approximately four weeks ago, we sent you a second questionnaire as part of our study to learn about sportfishing activities in Alaska. So far, many of the other anglers who were sent the survey have returned a completed questionnaire, but we have not yet received yours.

We are sending you another questionnaire because it is important that we obtain information from as many people in our sample as possible. Your fishing experiences and expenditures are representative of many other anglers, therefore the information that you provide will be invaluable for making an accurate assessment of sportfishing's economic impact to the state.

Please take a few minutes to complete the survey and return it in the postage-paid envelope. If you prefer, you can take the survey online at www.southwickassociates.com/alaskasurvey1. Your user code for the online survey is XXYYZZ.

We realize that confidentiality is important to you, and it is important to us. Your survey will not be shared with anyone outside of the research team.

Upon receiving your completed survey, our project contractor, Southwick Associates, Inc. will enter your name into a drawing for a \$1,000 gift certificate to be used at a local sporting goods store of your choice. If you have any questions about the survey, you may contact the project manager, Bill Romberg, at 907-267-2366, or by e-mail at william.romberg@alaska.gov.

I'd like to thank you again for agreeing to participate in this important study.

Sincerely,

Charlie O. Swanton

Director, Sport Fish Division

## APPENDIX C: WAVE II NONRESIDENT SURVEY MATERIALS

### Wave II – Nonresident Survey

- o Questionnaire
- o 1<sup>st</sup> mailing cover letter
- o 2<sup>nd</sup> mailing cover letter
- o 3<sup>rd</sup> mailing cover letter
- o Foreign respondent postcard

Appendix C1.—Wave II Nonresident Survey Questionnaire.



### Alaska Sportfishing Economic Survey

Completing the survey online\* or by mail will enter your name into a drawing for a \$1,000 gift certificate redeemable at the local sporting-goods retailer of your choice!

INTRODUCTION: Thank you for participating in this survey. The purpose of the survey is to quantify the economic contributions of sportfishing to Alaska's economy. "Sportfishing" is defined as the taking of fish and shellfish (clams, crabs, shrimp, etc) under an Alaska sportfishing license and regulations.

Section A – GENERAL: In this section, we are interested in learning some general information about your sportfishing activities in Alaska.

1. As best as possible, please report the number of days you went sportfishing in Alaska for each of the two time periods listed below. (Please enter "0" if you did not fish in this period.)

	Number of saltwater fishing days:	Number of freshwater fishing days:
November through December, 2006:		
January through April, <u>2007</u>		

2. As best as possible, please report the number of days you went freshwater or saltwater fishing in each region of Alaska from May through June and from July through October, 2007. See the enclosed map for the locations of the regions. (Enter "0" if you did not fish in a region. If you did not do any sport fishing between May 1st and October 31st of this year, then skip to Section C on page 6.)

MAY 1 <sup>st</sup> thru JUNE 30 <sup>th</sup> 2007	Region A	Region B	Region C	Region D	Region E	Region F
Freshwater days						
Saltwater days					No Saltwater in Region E	
JULY 1 <sup>st</sup> thru OCTOBER 31 <sup>st</sup> 2007	Region A	Region B	Region C	Region D	Region E	Region F
JULY 1 <sup>st</sup> thru OCTOBER 31 <sup>st</sup> 2007  Freshwater days	1 7	. ≅	Region C	Region D	Region E	Region F

<sup>\*</sup>If you prefer to take this survey online, please refer to the enclosed letter for your unique access code and web link.

-continued-

Section B1 – LAST TIME YOU WENT SPORTFISHING IN MAY THRU JUNE: Now we would like to know about your <u>last trip to Alaska</u> between May 1<sup>st</sup> and June 30<sup>th</sup>, 2007 in which you went fishing.

# ALL OF THESE QUESTIONS REFER TO YOUR LAST TRIP <u>IN ALASKA</u> DURING WHICH YOU FISHED AT LEAST ONCE \*\*\* BETWEEN MAY 1<sup>ST</sup> AND JUNE 30<sup>TH</sup>, 2007 \*\*\*

3.	When was the last tim	e vou went sportfis	hing in Alaska	between MAY 1 <sup>st</sup> AND .	JUNE 30 <sup>th</sup> . 2007?
	(Check one.)	- <b>, ,</b>	<b>g</b>		, —
	□ May	□ June		did not fish between May to section B2, page 4)	y 1st and June 30th (Skip
4.	How long was this trip	to Alaska including	g fishing days, t	travel days and non-fis	hing days?
	Total number of da	ys involved in last tri	p to Alaska (that	included fishing):	days
5.	How many days did yo (Count partial days of fis	u <u>actually fish</u> duri hing as "1" day).	ng this last trip	to Alaska between MA	Y 1 <sup>st</sup> AND JUNE 30 <sup>th</sup> ?
	Number of days ac	tually fished:			days
6.	Would you have taken ☐ Yes	this trip even if you □ No	ı were unable to	o go fishing? (check on	e)
7.	Was your fishing duri □ rod & reel sport		<b>ly</b> <i>(check one)</i> ellfish fishing		
8.	Was your fishing duri ☐ in freshwater		<b>l<u>v</u></b> (check one) saltwater		eshwater & saltwater
9.	Did you pay for a guid ☐ Yes	de or a charter boat □ No	at any time du	ring this trip? (check or	ne)
10.	Where did you fish du	ıring this trip? Plea	se refer to the I	map included with this	survey. (Check all that
	☐ Region A	☐ Region	В	☐ Region C	
	☐ Region D	☐ Region	Е	☐ Region F	

Appendix C1.-Page 3 of 8.

11. Which species did you <u>target</u> during your last trip to Please note the species you targeted may not neces (Check all that apply.)	Alaska <u>be</u> ssarily be t	etwe the fi	en MA` sh acti	<u>Ү 1<sup>sт</sup></u> ually	and <u>J</u> caugl	UNE ht on	30 <sup>TH</sup> your	200 trip.	<u>7</u> ?	
☐ King Salmon (Chinook) ☐ Steelhead				Halibı	ut					
☐ Silver Salmon (Coho) ☐ Trout (all types)					ish (cl	lams	shrin	np et	tc)	
☐ Red Salmon (Sockeye) ☐ Other freshwate		dly			saltw					
☐ Other Salmon (Pink, Chum) Varden, butbot, pik					shark			, igoc	<b>u</b> ,	
Li Other Saimon (Filix, Chain)	,	,	,	,		,				
12. TRAVEL PACKAGE SPENDING: As best as possible DEPARTING ON YOUR TRIP for any pre-purchased trips, etc. Referring to the included map, please circular trip. (Enter "0" if none.)	travel pac	kage er of	es such	n as o gion(	ruise s) yo	s, tra u visi Regi	ivel to ted a on o	ours s pa r reg	guions	your
EXAMPLE:		\$ :	2500		Α	<u>у</u> В	ou v		E E	F
Pre-arranged cruise, package tour or chartered trip (includin	na	-	2500	_			Δ			
fishing excursions purchased through a cruise line)		\$			Α	В	<u>}</u> c	D	E	F
Which of the following were included in the pre-arranged p	_				A	( K				
Transportation to or from Alaska				_	Do	not ir	clude	anv	of th	lese
Fishing guides &/or charter boats				- /0000		endit				1030
Lodging (mark "yes" if you were on a cruise)	🗆 Yes			000k W000		npleti				3
Meals				1000110 W	bel	ow/	\			
Fishing License	🗖 165		14	V \	// /					
<ol> <li>NON-PACKAGE SPENDING: As best as possible, ple where you bought the following TRIP-RELATED item PACKAGE. Please write the amount you spent and,</li> </ol>	ns <u>NOT INC</u> referring t	to the	DED AS e includ	S PAF ded n	RT OF	ANY	TRA	VEL etter	of th	ne .
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where you bought the following TRIP-RELATED item PACKAGE. Please write the amount you spent and, region or regions where you made the purchase(s). Above, please do not report it again below.  EXAMPLE:  Licenses and stamps  Fuel and oil for your car, RV, boat, airplane, etc  Guide and charter fees  Airline tickets to and from Alaska  Commercial travel within Alaska (air, ferry, shuttle, etc.)  Fish processing & shipping  Rentals (boats, equipment, autos, etc.)  Derby tickets  Boat launch and dockage fees  Ice  Bait (natural bait only, do not include lures)  Groceries, food, liquor bought in stores  Restaurants, bars, and take-out food purchases  Overnight lodging (hotels, campgrounds, cabins)  Souvenirs and gifts  Other entertainment expenses during fishing trip	Total amount spent \$ 250 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	to thing addy i	Regwhere  A B A B A B A B A B A B A B A B A B A	ion o o you iten	r regineration of the control of the	ANY circle ase in ons the the	TRA the I	VEL etter stion	of the #12 Purchoutsi Ala	ne nased de of ska

Section B2 – LAST TIME YOU WENT SPORTFISHING IN JULY THRU OCTOBER: Now we would like to know about your <u>last trip to Alaska between July 1<sup>st</sup> and October 31<sup>st</sup>, 2007 in which you went <u>fishing</u>.</u>

# ALL OF THESE QUESTIONS REFER TO YOUR LAST TRIP IN ALASKA DURING WHICH YOU FISHED AT LEAST ONCE \*\*\* BETWEEN JULY 1<sup>ST</sup> AND OCTOBER 31<sup>ST</sup>, 2007 \*\*\*

14	. When was the last (Check one.)	time you went s	portfishing in Alas	ka <u>between JULY 1</u>	1 st AND OCTOBER 31 st, 2007?
	□ July	□ August	□ September	□ October	☐ I did not fish between July 1st and Oct 31st (Skip to section C, page 6)
15.	How long was this t	<u>rip</u> to Alaska inc	luding fishing day	s, travel days and r	non-fishing days?
	Total number of	days involved in	last trip to Alaska (th	nat included fishing):	days
16.	(Count partial days of	f fishing as "1" dag	<u>n</u> during this last to y).	ip to Alaska betwe	en MAY 1 <sup>st</sup> AND JUNE 30 <sup>th</sup> ?
	Number of days	actually fished:			days
17.	Would you have tak □ Yes	en this trip even □ No	if you were unable	e to go fishing? (ch	eck one)
18.	Was your fishing d □ rod & reel sp		<i>imarily</i> (check or □ shellfish fishing	ne)	
19.	Was your fishing d □ in freshwater		<u>imarily</u> (check or □ in saltwater		both freshwater & saltwater
20.	Did you pay for a g ☐ Yes	juide or a charte □ No	r boat at any time o	during this trip? (cl	neck one)
21.	Where did you fish apply.)	during this trip?	?? Please refer to t	he map included w	rith this survey. (Check all that
	□ Region A		☐ Region B	☐ Regio	on C
	☐ Region D		☐ Region E	☐ Regio	on F

Appendix C1.–Page 5 of 8.

22. Which species did you <u>target</u> during your last tri <u>2007</u> ? Please note the species you targeted may (Check all that apply.)	p to Al not ne	aska ecess	<u>betv</u> arily	be th	JUL\ ne fis	<u>′ 1<sup>sт</sup></u> sh ac	ANE tuall	y ca	TOB ught	ER on	31 <sup>s1</sup> you	r trip.
☐ King Salmon (Chinook) ☐ Steelhea	d					□ На	alibu	t				
☐ Silver Salmon (Coho) ☐ Trout (all	types)					□ SI	hellfis	sh				
☐ Red Salmon (Sockeye) ☐ Other fre			ar. D	olly			ther	saltw	ater	fish	(line	icod.
☐ Other Salmon (Pink, Chum) Varden, but						rocki					1	,
23. TRAVEL PACKAGE SPENDING: As best as poss DEPARTING ON YOUR TRIP TO ALASKA for any tours, etc. Referring to the included map, please trip. (Enter "0" if none.)	y pre-p	urcha the l	ased etter	trav	el pa ie reg	ckag	jes s (s) y	uch ou vi	as c isited	ruis d as reg	ses, par jion	travel t of your
EXAMPLE		\$	25	500	Т	A Vision	A (		20000000	D	E	F
Pre-arranged cruise, package tour or chartered trip (inc		\$	V	~		1//	A 1	TV	ć	D	E	F
fishing excursions purchased through a cruise line	)		AV	11	M	177	A.	9 ~	<u> </u>	<u> </u>		Γ
Which of the following were included in the pre-arrange Transportation to or from Alaska Transportation once you arrived in Alaska Fishing guides &/or charter boats Lodging & accommodations Meals Fishing License		□ Ye □ Ye	s s s	\ 0 0 0	No No No No No No No		co	not i pend mplei low	liture	s w	hen	of these #24
<ol> <li>NON-PACKAGE SPENDING: As best as possible, where you bought the following TRIP-RELATED in PACKAGE. Please write in the amount you spent</li> </ol>	tems <u>N</u> and, r	<u>IOT II</u> eferri	NCL ng te	UDEC the	AS inclu	PAR uded	T OI	F AN o, ple	Y TF	ciro	<u>EL</u> :le ti	ne letter
where you bought the following TRIP-RELATED in	tems <u>N</u> and, r chase(: T am	NOT II eferri s). If y otal nount	ng to	UDEE the alrea	AS inclu	PAR uded port on or you	r reg	o, ple purc	Y TR ease chas	ciro	EL cle ti que Pu oi	ne letter estion #23 urchased utside of
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Section C. FISHING EQUIPMENT EXPENDITURES: In this section, we want to know about sportfishing and related equipment you bought IN ALASKA during the last 12 months.

25. As best as possible, please tell us how much YOU spent and where you bought the following fishing equipment and fishing related gear in the last 12 months. Only report purchases made in Alaska – exclude purchases made prior to arriving in Alaska. Include purchases YOU made for yourself and for others. Write in the amount spent and, referring to the included map, circle the letter of the region or regions where you made the purchase(s). Since some items can be used for non-fishing activities, please estimate the percentage that the purchased fishing related gear is used for sportfishing.

	Total amount spent					egion t the				% Used for sport fishing:
EXAMPLE: Clothing	\$ 40		Α	(8)	)C	<b>(D)</b>	Ε	F		65 %
FISHING EQUIPMENT:	•									
Licenses and stamps	\$		Α	В	С	D	Е	F		100 %
Rods, reels, & components	\$		Α	В	С	D	Е	F		100 %
Fishing tackle (lines, leaders, lures, creels, stringers etc)	\$		Α	В	С	D	Е	F		100 %
Tackle boxes, cases to protect fishing equipment	\$		Α	В	С	D	Ε	F		100 %
Depth finders, fish finders, other electronics	\$		Α	В	С	D	Ε	F		100 %
Landing nets, dipnets & gillnets	\$		Α	В	С	D	Е	F		100 %
Miscellaneous fishing equipment (knives, scales, etc.)	\$		Α	В	С	D	Ε	F		100 %
Shellfish fishing equipment (shovels, pots, buckets, etc.)	\$		Α	В	С	D	Ε	F		100 %
Fish mounting (taxidermy)	\$		Α	В	С	D	Ε	F		100 %
Books and magazines devoted to fishing	\$		Α	В	С	D	Ε	F		100 %
FISHING-RELATED GEAR OR OTHER NON-FISHING P	URCHASE	S:							_	
Items to store/preserve fish (smoker, vacuum sealer, etc.)	\$		Α	В	С	D	Ε	F		%
Coolers, fish boxes	\$		Α	В	С	D	Ε	F	ΙГ	%
Clothing (fishing vest, raingear, head net, etc.)	\$		Α	В	С	D	Е	F	ΙГ	%
Boots, shoes, waders and other footwear	\$		Α	В	С	D	Ε	F	ΙГ	%
Life jackets, survival suits or other PFDs,	\$		Α	В	С	D	Ε	F	ΙГ	%
Boats, canoes, rafts, kayaks and other watercraft	\$		Α	В	С	D	Ε	F	ΙГ	%
Boat motors	\$		Α	В	С	D	Ε	F		%
Trailers, hitches, and accessories	\$	ĺĺ	Α	В	С	D	Ε	F		%
Other boat parts and accessories	\$		Α	В	С	D	Ε	F		%
Bear spray, bug spray, sun screen	\$		Α	В	С	D	Ε	F		%
Firearms for personal protection	\$		Α	В	С	D	Ε	F	ΙŒ	%
Cameras, binoculars, sun glasses	\$		Α	В	С	D	Ε	F	ΙŒ	%
Tents, screen rooms, tarps, backpacks, sleeping bags	\$		Α	В	С	D	Ε	F		%
Camping trailer (pop-up, self-contained, 5 <sup>th</sup> wheel)	\$		Α	В	С	D	Ε	F		%
Other camping equipment (stoves, grills, lanterns, etc.)	\$		Α	В	С	D	Е	F		%
Vehicles (trucks, SUVs, motorhomes, etc.)	\$		Α	В	С	D	Е	F		%
Airplanes and related equipment	\$		Α	В	С	D	Ε	F		%
ATVs, snowmachines	\$		Α	В	С	D	Ε	F		%
Boat/camper registrations and excise taxes	\$		Α	В	С	D	Ε	F		%
Vehicle, boat or airplane repair/maintenance	\$		Α	В	С	D	Ε	F		%
Other, including non-fishing related purchases (please specify):	\$		Α	В	С	D	Е	F		%

□ \$50,000 - \$59,999

## 26. Please report how much <u>you</u> spent <u>IN THE PAST 12 MONTHS</u> related to any <u>Alaska real estate</u> that was purchased or used <u>primarily for sportfishing purposes</u>.

	Amount spent	Please circle where the property is located
EXAMPLE: Maintenance and repairs	\$ 25,000	A B C D E F
Expenses related to real estate <b>owned</b> or <b>shared</b> for fishing (including mortgage payments, insurance, property taxes, expenses are considered in the contract of the contra		ABCDEF
Expenses related to land, cabins and/or other real estate prelated or rented for fishing, including boat slips and storage		ABCDEF
Maintenance and repairs to real estate property	\$	ABCDEF
Construction of cabins, sheds, and other buildings	\$	ABCDEF
Section D. BACKGROUND INFORMATION: To he answer these final questions. All answers you providensure that the survey represents ALL Alaska anglers	le will be kept fully confi	dential. Your answers will help
27. What is your gender?	19	
20. What year were you born?	19	
29. Which category best describes the highest level ☐ Did not graduate from high school ☐ High school graduate or GED ☐ 1.0 processes the results are (some settle results)	of education you have c	ompleted? (Check one)
<ul><li>□ 1-3 years college (some college)</li><li>□ College graduate (bachelor degree or equiva</li></ul>	lent)	
☐ Postgraduate, master's degree, doctorate, lav	•	al degree
30. Which best describes your household's annual,  ☐ Less than \$9,999	<b>before-tax income?</b> <i>(Che</i> \$60,000 - \$69,999	eck one)
•	\$70,000 - \$79,999	
,	\$80,000 - \$89,999	
,	\$90,000 - \$99,999	
	\$100,000 - \$249,999	

7

□ \$250,000 or more

-continued-

Appendix C1.–Page 8 of 8.

	Very Dissatisfied	Generally Dissatisfied	Neutral	Generally Satisfied	Very Satisfied
If you hav	/e any additional	l comments you w	<i>i</i> ish to share ab	out this study plea	ase provide them here:
		Thank you for	your help and	participation!	
Please	return the surve	y in the self- addr	essed, postage survev is v <i>ery</i> in	paid envelope. I	Even if you did not fish,

We wish you the best of success and safety in your future fishing efforts!

Appendix C2.–First mailing cover letter.

# STATE OF ALASKA

### DEPARTMENT OF FISH AND GAME

OFFICE OF THE COMMISSIONER

#### SARAH PALIN. GOVERNOR

P.O. BOX 115526 JUNEAU, AK 99811-5526 PHONE: (907) 465-4100 FAX: (907) 465-2332

{DATE}
Dear Alaska Angler:

You have been selected to participate in a study aimed at measuring the economic significance of sport fishing in Alaska. You were selected to be part of this study as a result of having purchased an Alaska sport fishing license in 2007. Even if you did not fish in Alaska this year or do not really care about these issues, we would still like to hear from you. You are one of a small group of people that have been selected to represent the views of all anglers who visit Alaska to fish, so it is very important that we receive your completed survey.

In appreciation for your help, our project contractor, Southwick Associates, Inc. will enter the names of all those who return a completed survey into a drawing for a \$1,000 gift certificate redeemable at a local sporting goods retailer of your choice.

When you have completed the survey, please return it in the enclosed <u>postage-paid</u> envelope. If you prefer, you can take the survey online at www.southwickassociates.com/alaskasurvey2. Your user code for the online survey is XXYYZZ.

The information you provide will be kept confidential and will only used by the ADF&G and the project contractor, Southwick Associates, Inc. (www.SouthwickAssociates.com) to produce summary estimates of the economic significance of sport fishing in Alaska. If you have any questions, comments or concerns about the study, you may contact the project manager, Bill Romberg, at 907-267-2366, or by e-mail at william.romberg@alaska.gov.

Thank you again for agreeing to participate in this important study.

Sincerely,

Charlie O. Swanton

Director, Sport Fish Division

Appendix C3.—Second mailing cover letter.

# STATE OF ALASKA

### DEPARTMENT OF FISH AND GAME

OFFICE OF THE COMMISSIONER

SARAH PALIN, GOVERNOR

P.O. BOX 115526 JUNEAU, AK 99811-5526 PHONE: (907) 465-4100 FAX: (907) 465-2332

{Date} Dear Alaska Angler,

In November, we sent you a survey about your sportfishing activities in Alaska during May through October of 2007. Many of the other anglers who received the survey have already responded, but we have not yet received your completed questionnaire.

The Alaska Department of Fish and Game is conducting the survey to better understand the economic importance of sportfishing to the state's economy. Information about your experience is very valuable to this study because you have been selected at random to represent many other sport anglers who visit Alaska to fish. Therefore, it is very important that we hear from you.

Enclosed is a replacement questionnaire. Please take a few minutes to respond to the survey and return it in the postage-paid envelope. If you prefer, you can take the survey online at

www.southwickassociates.com/alaskasurvey2. Your user code for the online survey is XXYYZZ. *Your responses to the survey questions will be kept strictly confidential* and will only be used by the research team to develop statistically-valid estimates of economic activity associated with sportfishing in Alaska.

In appreciation for your help, our project contractor, Southwick Associates, Inc. will enter the names of all those who return a completed survey into a drawing for a \$1,000 gift certificate redeemable at a local sporting goods retailer of your choice.

If you have any questions about the survey, you may contact the project manager, Bill Romberg, at 907-267-2366, or by e-mail at william.romberg@alaska.gov.

I'd like to thank you again for agreeing to participate in this important study.

Sincerely,

Charlie O. Swanton

Appendix C4. –Third mailing cover letter.

# STATE OF ALASKA

### DEPARTMENT OF FISH AND GAME

OFFICE OF THE COMMISSIONER

SARAH PALIN, GOVERNOR

P.O. BOX 115526 JUNEAU, AK 99811-5526 PHONE: (907) 465-4100 FAX: (907) 465-2332

{Date} Dear Alaska Angler,

Approximately four weeks ago, we sent you a second questionnaire as part of our study to learn about sportfishing activities in Alaska. So far, many of the other anglers who were sent the survey have returned a completed questionnaire, but we have not yet received yours.

We are sending you another questionnaire because it is important that we obtain information from as many people in our sample as possible. Your fishing experiences and expenditures are representative of many other anglers, therefore the information that you provide will be invaluable for making an accurate assessment of sportfishing's economic impact to the state.

Please take a few minutes to complete the survey and return it in the postage-paid envelope. If you prefer, you can take the survey online at www.southwickassociates.com/alaskasurvey2. Your user code for the online survey is XXYYZZ.

We realize that confidentiality is important to you, and it is important to us. Your survey will not be shared with anyone outside of the research team.

Upon receiving your completed survey, our project contractor, Southwick Associates, Inc. will enter your name into a drawing for a \$1,000 gift certificate to be used at a local sporting goods store of your choice. If you have any questions about the survey, you may contact the project manager, Bill Romberg, at 907-267-2366, or by e-mail at william.romberg@alaska.gov.

I'd like to thank you again for agreeing to participate in this important study.

Sincerely,

Charlie O. Swanton

### Appendix C5.-Foreign respondent postcard.

#### Dear Alaska Angler:

You have been selected to participate in a study aimed at measuring the economic significance of sport fishing in Alaska. Your name was randomly drawn from the list people who purchased an Alaska fishing license in 2007. Even if you did not fish in Alaska this year, we would still like to hear from you.

To participate in the study, we are asking you complete an online survey that will ask about your fishing experience in Alaska during 2007. In appreciation, our project contractor, Southwick Associates, Inc. will enter the names of all those who complete a survey into a drawing for a \$1,000 gift certificate redeemable at a sporting goods retailer of your choice.

The survey can be completed online at www.southwickassociates.com/alaskasurvey2. Your user code for the online survey is XXYYZZ.

Your responses will be kept confidential and will be used only to produce summary estimates of the economic significance of sport fishing in Alaska. If you have questions about the study, you may contact Bill Romberg of the Alaska Department of Fish and Game at 907-267-2366, or by e-mail at william.romberg@alaska.gov.

Thank you again for agreeing to participate in this important study.

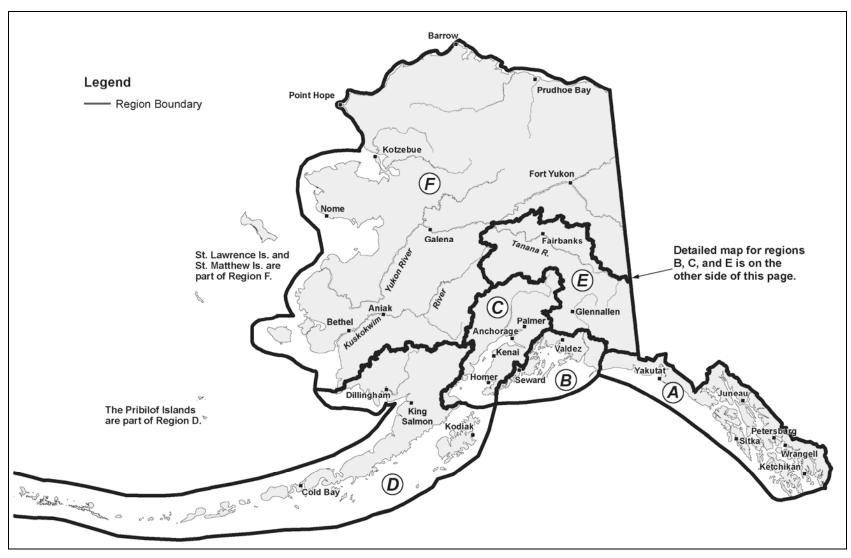
Sincerely,

Charlie O. Swanton

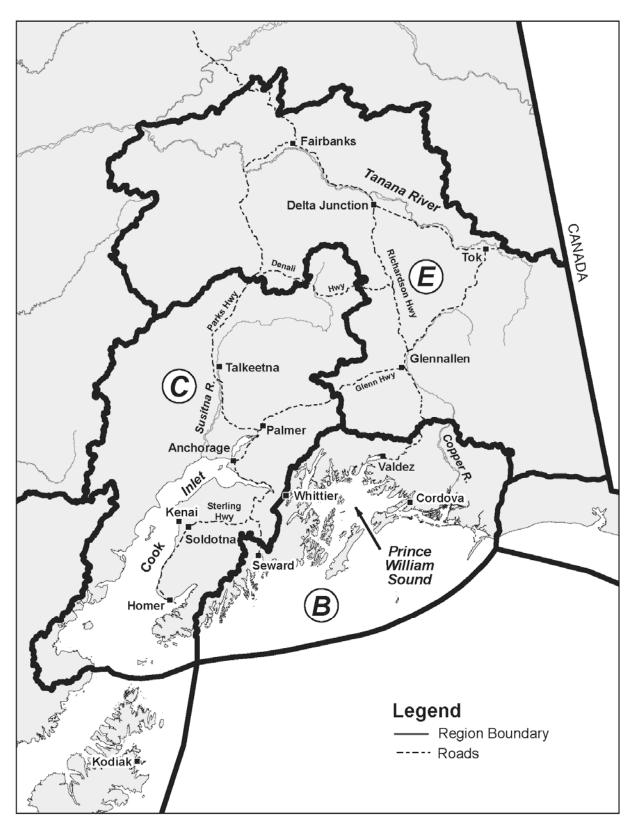
Director, Division of Sport Fish

### APPENDIX D: ECONOMIC SURVEY MAP INSERTS

Map inserts included in all survey mailings.



Appendix D1.-Map insert of Economic Study Survey subregions included in all survey mailings.



Appendix D2.-Detailed map insert for regions B, C, and D included in all survey mailings.

### APPENDIX E: SPORTFISHING GUIDE BUSINESS SURVEY MATERIALS

### Alaska Sportfishing Guide Business Survey

- o Questionnaire
- o 1<sup>st</sup> mailing cover letter
- o 2<sup>nd</sup> mailing cover letter
- o 3<sup>rd</sup> mailing cover letter

Appendix E1. – Sportfishing Guide Business Survey Questionnaire.



hire in Alaska?

years

### **Alaska Sportfishing Guide Business Survey**

INTRODUCTION: Thank you for participating in this survey. This is part of a broader effort to estimate the contribution that sportfishing makes to the Alaska economy. A separate survey is underway to learn about the expenditures made by anglers in 2007. Because guiding services are such an integral part of sportfishing in Alaska, it is important that we have a clear understanding of the services that guide businesses provide, and how guide business revenues benefit the state and regional economies.

If you have any questions about this survey, please call Bill Romberg of the Alaska Department of Fish and Game, Sport Fish Division at 907-267-2366. If you want a copy of the study results (available in late 2008), please email Bill Romberg at william.romberg@alaska.gov.

**GENERAL:** In this section, we are interested in learning some general information about your guiding activities in Alaska.

1. Approximately how many years has your company been providing sportfishing guide services for

2. What types of services do you provide for your clients on a typical guided sportfishing trip?

"Provide" means your business arranged and paid for the service on be (Check all that apply)	ehalf of your clie	nt.
	Freshwater Trips	Saltwater Trips
EXAMPLE:	✓	
Fishing licenses		
Lodging		
Meals		
Fish Processing (your business cleans and packages fish for the client, <u>not</u> subcontracted to another)		
Transportation to and from Alaska		
Transportation within Alaska		
Other (please specify)		

**BUSINESS EXPENSES:** In order to determine the contribution of sportfishing guide business activities to the Alaska economy, we need to know general information about how your business expenses were distributed in 2007 and where those expenses occur.

3. We do not need to know your actual business expenses. In the first column of the table write in the PERCENT that each category represents of your total businesses expenses in 2007. Include expenses you incur for the business and on behalf of your clients (e.g., licenses, lodging, meals, etc.) The total for the first column should add to 100%. In the second column, report the approximate percentage of each business expense that you purchase from sources within the state of Alaska. These are business expenses incurred by you as the owner, not expenses incurred by your clients.

BUSINESS EXPENSES	Percent of Total	Percentage purchased in Alaska
EXAMPLE: Business services	3%	75%
Business and guide licenses & permits	%	100%
Licenses purchased for your paying anglers	%	100%
Fuel and oil (boat, plane, car/truck, etc.)	%	%
Restaurants and prepared meals	%	100%
Wages, salaries and payments to owners (hired labor and your own pay)	%	%
<b>Equipment purchases</b> (boats, motors, vehicles, trailers, gear, etc.)	%	%
Equipment rental	%	%
Equipment maintenance and repair	%	%
Bait	%	%
Groceries	%	%
<b>Lodging</b> (for you, employees and provided to clients)	%	%
Airline tickets	%	%
Other public transportation	%	%
Business services (accounting, advertising, legal, etc.)	%	%
Real estate located in Alaska	%	100%
Utilities	%	%
Taxes	%	%
Insurance	%	%
Other (please specify)	%	%
TOTAL	100 %	

If you have any additional comments about the survey or the information you provided, please provide them here.

Appendix E2.–First mailing cover letter.

# STATE OF ALASKA

### DEPARTMENT OF FISH AND GAME

OFFICE OF THE COMMISSIONER

#### SARAH PALIN. GOVERNOR

P.O. BOX 115526 JUNEAU, AK 99811-5526 PHONE: (907) 465-4100 FAX: (907) 465-2332

{DATE}

Your business has been randomly selected to participate in a study aimed at measuring the economic significance of sport fishing in Alaska. You were selected to be part of this study as a result of having purchased an Alaska Sportfishing Guide Business license in 2007. The purpose of this study is to better understand the kinds of services that guide businesses and outfitters provide as part of the overall sportfishing industry in our state.

The enclosed survey is confidential, very brief, and does not ask you to provide any private information about the revenues that you receive from your guiding operations. An estimate of what sportfishing anglers spend on guide services is being developed from a separate survey of anglers that is currently underway. Instead, this survey asks you to tell us the kinds of services that you provide and the distribution of your business expenses. When you have completed the survey, please return it in the enclosed <u>postage-paid</u> envelope. The information you provide will only be used by ADF&G and the project contractor, Southwick Associates, Inc. (www.SouthwickAssociates.com) to more accurately estimate the economic significance of sport fishing in Alaska. If you have any questions, comments or concerns about the study, you may contact the project manager, Bill Romberg, at 907-267-2366, or by e-mail at william.romberg@alaska.gov.

Thank you again for agreeing to participate in this important study.

Sincerely,

Charlie O. Swanton

Appendix E3.– Second mailing cover letter.

# STATE OF ALASKA

### DEPARTMENT OF FISH AND GAME

OFFICE OF THE COMMISSIONER

#### SARAH PALIN, GOVERNOR

P.O. BOX 115526 JUNEAU, AK 99811-5526 PHONE: (907) 465-4100 FAX: (907) 465-2332

{DATE}

In December, we sent you a survey asking about your sportfishing guide business. Many of the other guide businesses that were surveyed have responded, but we have not yet received your completed questionnaire. Enclosed is a replacement questionnaire. Please take a few minutes to respond to the survey and return it in the postage-paid envelope. The survey is very brief and does not ask you to provide any private information about the revenues that you receive from your guiding operations. It asks you to tell us about the kinds of services that you provide and the distribution of your business expenses.

The Alaska Department of Fish and Game is conducting the survey as part of a larger study of the economic importance of sportfishing to the state's economy. Your business was among a sample that was randomly selected to represent all Alaska sportfishing guide businesses. Therefore, it is very important that we hear from you.

When you have completed the survey, please return it in the enclosed <u>postage-paid</u> envelope. The information you provide will only be used by ADF&G and the project contractor, Southwick Associates, Inc. (www.SouthwickAssociates.com). If you have any questions, comments or concerns about the study, you may contact the project manager, Bill Romberg, at 907-267-2366, or by e-mail at william.romberg@alaska.gov.

Thank you again for agreeing to participate in this important study.

Sincerely,

Charlie O. Swanton

Appendix E4.-Third mailing cover letter.

# STATE OF ALASKA

### DEPARTMENT OF FISH AND GAME

OFFICE OF THE COMMISSIONER

SARAH PALIN, GOVERNOR

P.O. BOX 115526 JUNEAU, AK 99811-5526 PHONE: (907) 465-4100 FAX: (907) 465-2332

{Date}

Approximately four weeks ago, we sent you a second questionnaire as part of our study of sportfishing activities in Alaska. So far, many of the other guide businesses that were surveyed have responded, but we have not yet received your completed questionnaire.

We are sending you another questionnaire because it is important that we obtain information from as many guide businesses in our sample as possible. The survey is very brief and does not ask you to provide any private information about the revenues that you receive from your guide business operations. However, data about the kinds of services that you provide and the distribution of your business expenses are important for making an accurate assessment of sportfishing's economic impact to the state.

Please take a few minutes to complete the survey and return it in the postage-paid envelope. We realize that confidentiality is important to you, and it is important to us. *Your survey will not be shared with anyone outside of the research team.* 

Upon receiving your completed survey, our project contractor, Southwick Associates, Inc. will enter your name into a drawing for a \$1,000 gift certificate to be used at a local sporting goods store of your choice. If you have any questions about the survey, you may contact the project manager, Bill Romberg, at 907-267-2366, or by e-mail at william.romberg@alaska.gov.

I'd like to thank you again for agreeing to participate in this important study.

Sincerely,

Charlie O. Swanton

### APPENDIX F: SURVEY RESPONSE RATES AND GUIDE BUSINESS SURVEY SUMMARY RESULTS

This appendix presents the response rates from the angler survey, by wave, and the response rates to the guide's business survey, by region.

- Alaska Sportfishing Economic Survey response rates
- Alaska Sportfishing Guide Business Survey response rates by region
- Guides business survey IMPLAN sector assignments and business expenditure distributions by guided water type

Appendix F1.-Alaska Sportfishing Economic Survey response rates.

	Resident	Nonresident Lower 49	Nonresident Canada	Nonresident Foreign	TOTAL
Wave I					
Mailed:	683	0	0	0	683
Undeliverable:	29	0	0	0	29
Returns:	379	0	0	0	379
Response rate:	58.0%				58.0%
Wave II					
Mailed:	2,517	4,029	119	152	6,817
Undeliverable:	98	87	16	0	224
Returns:	784	1,761	20	26	2,591
Response rate:	32.4%	44.7%	19.4%	17.1%	39.3%
TOTAL MAILED:	3,200	4,029	119	152	7,500
TOTAL RETURNED:	1,163	1,761	20	26	2,970
OVERALL RESPONSE:	37.8%	44.7%	19.4%	17.1%	41.0%

Appendix F2.-Alaska Sportfishing Guide Business Survey response rates by region.

Region	Returned	Mailed	Response Rate
	11010111100		110.00
A – Southeast	51	160	31.9%
B – Prince Wm. Sound / N. Gulf Coast	3	11	27.3%
C – Cook Inlet	61	238	25.6%
D – Bristol Bay / Aleutians	31	72	43.1%
E – Tanana/Copper River Valleys	2	8	25.0%
F – Arctic-Yukon-Kuskokwim Areas	7	11	63.6%
Sub-total	155*	500	31.0%
Undeliverable		29**	
Unidentified respondent	7		
Total	162	471	34.4%

<sup>\*</sup>Does not include 7 surveys with regions that could not be identified.

<sup>\*\*</sup>A minimum of 29 known surveys were returned as undeliverable.

Appendix F3.–Guide Business survey IMPLAN sector assignments and business expenditure distributions by guided water type, 2007.

			Freshwat	ter Guides	Saltwat	er Guides
Business				Mean %		Mean %
Expense	IMPLAN		Mean %	Purchased	Mean %	Purchased
Category	Sector	Sector title	of Total	in Alaska	of Total	in Alaska
Business licenses	504	State & Local Non-Education	5.5%	100.0%	2.0%	100.0%
Anglers licenses	504	State & Local Non-Education	0.5%	100.0%	1.1%	100.0%
Fuel and oil	PCE8140	Gasoline and oil Food services and drinking	11.1%	93.3%	22.3%	96.4%
Meals	481	places	3.0%	100.0%	1.6%	100.0%
Payroll	5001 286, 344, 349,	Households Boats, motors, trailers, vehicles,	20.1%	83.6%	17.0%	91.5%
Equipment	358, 381	fishing equip Machinery and equipment rental	9.5%	68.3%	12.6%	80.3%
Rental	434 483, 484, 485,	and leasing Automotive, electronic,	0.6%	100.0%	0.6%	85.1%
Maintenance	486	machinery and household repair	5.6%	90.3%	9.5%	91.3%
Bait	16	Fishing Food for off-premise	1.3%	88.1%	3.0%	79.2%
Groceries	PCE1111	consumption	7.8%	90.4%	4.0%	94.4%
Airline tickets	391	Air transportation	2.9%	86.1%	1.3%	69.6%
Lodging Local	479, 480	Hotels, motels and other lodging Air, water and ground	2.9%	94.4%	2.9%	100.0%
transportation	391, 393, 395 437, 438, 447,	transportation	4.3%	82.7%	0.2%	100.0%
Business services	455, 456, 459	Business services	5.7%	72.5%	3.7%	77.9%
Real estate	431	Real estate Water, sewer and electrical	2.2%	100.0%	2.1%	100.0%
Utilities	32, 30	utilities	2.9%	92.2%	2.5%	95.1%
Taxes	504	State & Local Non-Education	4.0%	90.6%	4.1%	94.6%
Insurance Other business	427	Insurance carriers	6.7%	69.2%	6.0%	59.8%
expenses	459	Other business services	3.6%	78.6%	3.4%	77.0%
Total			100.00%		100.00%	

### APPENDIX G: STATISTICAL SUMMARY OF SURVEY RESPONSES

Appendix G presents summary statistics for each response variable for the three angler surveys. The summary statistics include: variable name assigned to the question; descriptive label; number of non-missing responses; mean response value; minimum response value; maximum response value; and standard deviation of the response values.

These summary statistics should <u>not</u> be confused with the mean values reported elsewhere in this report or as measures of the reliability of the final study estimates, and should <u>not</u> be used as estimates of average spending by Alaska anglers. The raw data on which these summaries are based underwent numerous transformations including final adjustments for missing observations, pooling across time periods, disaggregation by type of water fished and use of guides, aggregation across regions, and derivation of population estimates by applying estimates of total angler-days, among others. For a full description of the procedures used to produce the study estimates, see the methodology section of the report.

The tables in this appendix include:

- Wave 1 resident survey summary statistics
- Wave 2 resident survey summary statistics
- Wave 2 nonresident survey summary statistics

Appendix G1.– Summary statistics for survey response variables: Wave 1 resident respondents.

40 45	3.78 4.53
45	4.53
45	4.53
	·
45	3.66
43	3.00
30	2.42
50	2.12
45	6.26
	0.20
20	2.04
25	2.16
15	1.23
50	6.08
27	3.02
50	4.66
15	1 (0
15	1.68
1	0.04
'	0.06
	•
	•
	•
	•
1	•
30	2.79
	/
60	9.67
1	0.46
	15 50 27 50 15 1

**NOTE: Summary statistics of raw survey data.** The mean values reported here do not necessarily represent average spending by all Alaska anglers; the standard deviations do to not apply to final spending estimates. This table includes raw survey data that underwent numerous transformations to produce the final study estimates.

Appendix G1.–Page 2 of 13

Variable	Label	N	Mean	Min	Max	Std Dev
fish_type_1	1=Rod&Reel 2=Shellfish Fishing	303	1.12	1	3	0.39
water_type_1	1=In Freshwater; 2=In Saltwater; 3=In Both	306	1.61	1	3	0.63
charter_1	1=Yes; 0=No	305	0.10	0	1	0.30
trip1_A	Did you fish in Region A 1=Yes; 0=No	310	0.23	0	1	0.42
trip1_B	Did you fish in Region B 1=Yes; 0=No	310	0.15	0	1	0.36
trip1_C	Did you fish in Region C 1=Yes; 0=No	310	0.46	0	1	0.50
trip1_D	Did you fish in Region D 1=Yes; 0=No	310	0.05	0	1	0.21
trip1_E	Did you fish in Region E 1=Yes; 0=No	310	0.12	0	1	0.32
trip1_F	Did you fish in Region F 1=Yes; 0=No	310	0.02	0	1	0.14
King_1	King Salmon 1=Yes; 0=No	309	0.54	0	1	0.50
Silver_1	Silver Salmon 1=Yes; 0=No	309	0.10	0	1	0.31
Red_1	Red Salmon 1=Yes: 0=No	309	0.17	0	1	0.37
OtherSalm_1	Other Salmon 1=Yes; 0=No	309	0.07	0	1	0.26
OtherFresh_1	Other Freshwater 1=Yes; 0=No	309	0.16	0	1	0.36
Steel_1	Steelhead 1=Yes; 0=No	309	0.03	0	1	0.18
Trout_1	Trout 1=Yes; 0=No	309	0.24	0	1	0.43
Halibut_1	Halibut 1=Yes; 0=No	309	0.35	0	1	0.48
Shell_1	Shellfish 1=Yes; 0=No	309	0.08	0	1	0.27
PtherSalt_1	Other Saltwater 1=Yes; 0=No	309	0.09	0	1	0.29
pkg_1	Total Cost of pre-arranged cruise, package tour, or charter trip	0	0.07	O		0.27
pkg_1 pkg_1_A	Visited 1=Yes; 0=No	0		•	•	•
pkg_1_N pkg_1_B	Visited 1=Yes: 0=No	0		•	•	•
pkg_1_B pkg_1_C	Visited 1=Yes; 0=No	0			•	•
pkg_1_C pkg_1_D	Visited 1=Yes: 0=No	0			•	•
	Visited 1=Yes; 0=No	0			•	•
pkg_1_E pkg_1_F	Visited 1=Yes: 0=No	0			•	
	Transportation to/from Alaska 1=Yes; 0=No	0	•	•	•	•
pkg_1_air	·	0			•	•
pkg_1_trans	Transportation in Alaska 1=Yes; 0=No Guides &/or charter boat 1=Yes; 0=No	0		•	•	•
pkg_1_guide		0			•	•
pkg_1_lodge	Lodging 1=Yes; 0=No	0		•	•	•
pkg_1_food	Meals 1=Yes; 0=No			•	•	•
pkg_1_lic	Fishing License 1=Yes; 0=No	0			200	. 27.40
Lic_1	Total Amount Spent on License and Stamp	303	29.23	0	300	37.49
Lic_1_A	Purchased in region A: 1=Yes; 0=No	197	0.23	0	1	0.42
Lic_1_B	Purchased in region B: 1=Yes; 0=No	197	0.06	0	1	0.24
Lic_1_C	Purchased in region C: 1=Yes; 0=No	197	0.53	0	1	0.50
Lic_1_D	Purchased in region D: 1=Yes; 0=No	197	0.06	0	1	0.23
Lic_1_E	Purchased in region E: 1=Yes; 0=No	197	0.15	0	1	0.36
Lic_1_F	Purchased in region F: 1=Yes; 0=No	197	0.03	0	1	0.16
Lic_1_out	Purchased Outside Alaska 1=Yes; 0=No	0	107.50			
Fuel_1	Total Amount Spent on Fuel	303	127.59	0	3,500	276.77
Fuel_1_A	Purchased in region A: 1=Yes; 0=No	252	0.21	0	1	0.41
Fuel_1_B	Purchased in region B: 1=Yes; 0=No	252	0.11	0	1	0.31
Fuel_1_C	Purchased in region C: 1=Yes; 0=No	252	0.55	0	1	0.50
Fuel_1_D	Purchased in region D: 1=Yes; 0=No	252	0.05	0	1	0.22
Fuel_1_E	Purchased in region E: 1=Yes; 0=No	252	0.18	0	1	0.38
Fuel_1_F	Purchased in region F: 1=Yes; 0=No	252	0.03	0	1	0.16
Fuel_out_1	Purchased Outside Alaska 1=Yes; 0=No	0				
Guide_1	Total Amount Spent on Guide	303	48.33	0	6,000	359.08
Guide_1_A	Purchased in region A: 1=Yes; 0=No	32	0.09	0	1	0.30
Guide_1_B	Purchased in region B: 1=Yes; 0=No	32	0.34	0	1	0.48
Guide_1_C	Purchased in region C: 1=Yes; 0=No	32	0.56	0	1	0.50
Guide_1_D	Purchased in region D: 1=Yes; 0=No	32	0	0	0	0
Guide_1_E	Purchased in region E: 1=Yes; 0=No	32	0	0	0	0
Guide_1_F	Purchased in region F: 1=Yes; 0=No	32	0	0	0	0

**NOTE: Summary statistics of raw survey data.** The mean values reported here do not necessarily represent average spending by all Alaska anglers; the standard deviations do to not apply to final spending estimates. This table includes raw survey data that underwent numerous transformations to produce the final study estimates.

Appendix G1.–Page 3 of 13

Variable	Label	N	Mean	Min	Max	Std Dev
Guide_out_1	Purchased Outside Alaska 1=Yes; 0=No	0				
Air_1	Total Amount Spent on Airfare	0				
Air_1_A	Region A 1=Yes; 0=No	0				
Air_1_B	Region B 1=Yes; 0=No	0				
Air_1_C	Region C 1=Yes; 0=No	0				
Air_1_D	Region D 1=Yes; 0=No	0				
Air_1_E	Region E 1=Yes; 0=No	0				
Air_1_F	Region F 1=Yes; 0=No	0				
Air_out_1	Purchased Outside Alaska 1=Yes; 0=No	0				
Travel_1	Total Amount Spent on Commercial Travel Within Alaska	303	10.29	0	650	57.15
Travel_1_A	Purchased in region A: 1=Yes; 0=No	25	0.16	0	1	0.37
Travel_1_B	Purchased in region B: 1=Yes; 0=No	25	0.08	0	1	0.28
Travel_1_C	Purchased in region C: 1=Yes; 0=No	25	0.64	0	1	0.49
Travel_1_D	Purchased in region D: 1=Yes; 0=No	25	0	0	0	0
Travel_1_E	Purchased in region E: 1=Yes; 0=No	25	0.04	0	1	0.20
Travel_1_F	Purchased in region F: 1=Yes; 0=No	25	0	0	0	0
Travel_out_1	Purchased Outside Alaska 1=Yes; 0=No	0				
Process_1	Total Amount Spent on Fish Processing	303	12.73	0	350	46.84
Process_1_A	Purchased in region A: 1=Yes; 0=No	35	0.17	0	1	0.38
Process_1_B	Purchased in region B: 1=Yes; 0=No	35	0.29	0	i l	0.46
Process_1_C	Purchased in region C: 1=Yes; 0=No	35	0.51	0	i l	0.51
Process_1_D	Purchased in region D: 1=Yes; 0=No	35	0.51	0	0	0.51
Process_1_E	Purchased in region E: 1=Yes; 0=No	35	0	0	0	0
Process_1_F	Purchased in region F: 1=Yes; 0=No	35	0	0	0	0
Process_out_1	Purchased Outside Alaska 1=Yes; 0=No	0	o l	U	O	O
Rentals_1	Total Amount Spent on Rentals (boats, auto, etc)	303	2.26	0	400	24.88
Rentals_1_A	Purchased in region A: 1=Yes; 0=No	7	0	0	0	24.00
Rentals_1_B	Purchased in region B: 1=Yes; 0=No	7	0.14	0	1	0.38
Rentals_1_C	Purchased in region C: 1=Yes; 0=No	7	0.14	0	1	0.53
Rentals_1_D	Purchased in region D: 1=Yes; 0=No	7	0.14	0	i	0.38
Rentals_1_E	Purchased in region E: 1=Yes; 0=No	7	0.14	0	0	0.30
Rentals_1_F	Purchased in region F: 1=Yes; 0=No	7	0	0	0	0
Rentals_out_1	Purchased Outside Alaska 1=Yes; 0=No	0	O	U	O	U
Derby_1	Total Amount Spent on Derby Tickets	303	3.87	0	300	20.26
Derby_1_A	Purchased in region A: 1=Yes; 0=No	32	0.44	0	1	0.50
Derby_1_A Derby_1_B	Purchased in region B: 1=Yes; 0=No	32	0.44	0	1	0.37
Derby_1_B Derby_1_C	Purchased in region C: 1=Yes; 0=No	32	0.10	0	1	0.46
Derby_1_C Derby_1_D	Purchased in region D: 1=Yes; 0=No	32	0.20	0	0	0.40
Derby_1_E	Purchased in region E: 1=Yes; 0=No	32	0	0	0	0
Derby_1_E Derby_1_F	Purchased in region F: 1=Yes; 0=No	32	0	0	0	0
Derby_out_1	Purchased Outside Alaska 1=Yes; 0=No	0	o l	U	U	U
Dock 1	Total Amount Spent on Dockage	303	27.41	0	1,795	148.67
Dock_1_A	Purchased in region A: 1=Yes; 0=No	82	0.24	0	1,773	0.43
Dock_1_A Dock_1_B	Purchased in region B: 1=Yes; 0=No	82	0.24	0	1	0.43
Dock_1_B Dock_1_C	Purchased in region C: 1=Yes; 0=No	82	0.20	0	1	0.40
	Purchased in region D: 1=Yes; 0=No	82	0.46	0		0.50
Dock_1_D		82	0.04	-	1	
Dock_1_E	Purchased in region E: 1=Yes; 0=No			0	1	0.11
Dock_1_F	Purchased in region F: 1=Yes; 0=No	82	0	0	0	0
Dock_out_1	Purchased Outside Alaska 1=Yes; 0=No	202	7.00		350	20 07
Ice_1	Total Amount Spent on Ice	303	7.89	0	350	28.07
Ice_1_A	Purchased in region A: 1=Yes; 0=No	121	0.15	0	1	0.36
Ice_1_B	Purchased in region B: 1=Yes; 0=No	121	0.18	0	1	0.39
Ice_1_C	Purchased in region C: 1=Yes; 0=No	121	0.60	0	1	0.49
Ice_1_D	Purchased in region D: 1=Yes; 0=No	121	0.02	0	1	0.13
Ice_1_E	Purchased in region E: 1=Yes; 0=No	121	0.15	0	1	0.36

**NOTE: Summary statistics of raw survey data.** The mean values reported here do not necessarily represent average spending by all Alaska anglers; the standard deviations do to not apply to final spending estimates. This table includes raw survey data that underwent numerous transformations to produce the final study estimates.

Appendix G1.–Page 4 of 13

Variable	Label	N	Mean	Min	Max	Std Dev
Ice_1_F	Purchased in region F: 1=Yes; 0=No	121	0.02	0	1	0.13
Ice_out_1	Purchased Outside Alaska 1=Yes; 0=No	0				
Bait_1	Total Amount Spent on Bait	303	9.08	0	250	20.73
Bait_1_A	Purchased in region A: 1=Yes; 0=No	119	0.29	0	1	0.45
Bait_1_B	Purchased in region B: 1=Yes; 0=No	119	0.12	0	1	0.32
Bait_1_C	Purchased in region C: 1=Yes; 0=No	119	0.48	0	1	0.50
Bait_1_D	Purchased in region D: 1=Yes; 0=No	119	0.03	0	1	0.16
Bait_1_E	Purchased in region E: 1=Yes; 0=No	119	0.09	0	1	0.29
Bait_1_F	Purchased in region F: 1=Yes; 0=No	119	0	0	0	0
Bait_out_1	Purchased Outside Alaska 1=Yes; 0=No	0				
Groceries_1	Total Amount Spent on Groceries, Food, and Liquor	304	74.89	0	2,500	179.77
Groceries_1_A	Purchased in region A: 1=Yes; 0=No	227	0.19	0	1	0.39
Groceries_1_B	Purchased in region B: 1=Yes; 0=No	227	0.11	0	1	0.31
Groceries_1_C	Purchased in region C: 1=Yes; 0=No	227	0.55	0	1	0.50
Groceries_1_D	Purchased in region D: 1=Yes; 0=No	227	0.04	0	1	0.18
Groceries_1_E	Purchased in region E: 1=Yes; 0=No	227	0.16	0	1	0.37
Groceries_1_F	Purchased in region F: 1=Yes; 0=No	227	0.02	0	1	0.15
Groceries_out_1	Purchased Outside Alaska 1=Yes; 0=No	0				
Meals_1	Total Amount Spent on Restaurants, bars, and Take-Out	303	34.80	0	1,500	108.32
Meals_1_A	Purchased in region A: 1=Yes; 0=No	105	0.08	0	1	0.27
Meals_1_B	Purchased in region B: 1=Yes; 0=No	105	0.19	0	1	0.39
Meals_1_C	Purchased in region C: 1=Yes; 0=No	105	0.64	0	1	0.48
Meals_1_D	Purchased in region D: 1=Yes; 0=No	105	0.03	0	1	0.17
Meals_1_E	Purchased in region E: 1=Yes; 0=No	105	0.14	0	1	0.35
Meals_1_F	Purchased in region F: 1=Yes; 0=No	105	0.01	0	1	0.10
Meals_out_1	Purchased Outside Alaska 1=Yes; 0=No	0	0.0.	ŭ	•	00
Lodging_1	Total Amount Spent on Lodging	303	26.65	0	700	93.04
Lodging_1_A	Purchased in region A: 1=Yes; 0=No	55	0.02	0	1	0.13
Lodging_1_B	Purchased in region B: 1=Yes; 0=No	55	0.27	0	1	0.45
Lodging_1_C	Purchased in region C: 1=Yes; 0=No	55	0.67	0	1	0.47
Lodging_1_D	Purchased in region D: 1=Yes; 0=No	55	0.02	0	1	0.13
Lodging_1_E	Purchased in region E: 1=Yes; 0=No	55	0.13	0	1	0.34
Lodging_1_F	Purchased in region F: 1=Yes; 0=No	55	0.02	0	1	0.13
Lodge_out_1	Purchased Outside Alaska 1=Yes; 0=No	0	0.02			0110
Gifts_1	Total Amount Spent on Souvenirs and Gifts	303	5.59	0	400	33.11
Gifts_1_A	Purchased in region A: 1=Yes; 0=No	18	0.06	0	1	0.24
Gifts_1_B	Purchased in region B: 1=Yes; 0=No	18	0.33	0	1	0.49
Gifts_1_C	Purchased in region C: 1=Yes; 0=No	18	0.67	0	1	0.49
Gifts_1_D	Purchased in region D: 1=Yes; 0=No	18	0	0	0	0
Gifts_1_E	Purchased in region E: 1=Yes; 0=No	18	0.11	0	1	0.32
Gifts_1_F	Purchased in region F: 1=Yes; 0=No	18	0.06	0	1	0.24
Gifts_out_1	Purchased Outside Alaska 1=Yes; 0=No	0	0.00			0.2 .
Amusement_1	Total Amount Spent on Other Entertainment	304	5.83	0	300	32.43
Amusement_1_A	Purchased in region A: 1=Yes; 0=No	23	0.17	0	1	0.39
Amusement_1_B	Purchased in region B: 1=Yes; 0=No	23	0.22	0	i	0.42
Amusement_1_C	Purchased in region C: 1=Yes; 0=No	23	0.39	0	1	0.50
Amusement_1_D	Purchased in region D: 1=Yes; 0=No	23	0.09	0	1	0.29
Amusement_1_E	Purchased in region E: 1=Yes; 0=No	23	0.13	0	1	0.34
Amusement_1_F	Purchased in region F: 1=Yes; 0=No	23	0.10	0	0	0.01
Amusement_out_1	Purchased Outside Alaska 1=Yes; 0=No	0		0	ŭ	Ŭ
Other_1	Total Amount Spent on Other	303	0	0	0	0
Other_1_A	Purchased in region A: 1=Yes; 0=No	22	0.14	0	1	0.35
Other_1_B	Purchased in region B: 1=Yes; 0=No	22	0.14	0	1	0.33
Other_1_C	Purchased in region C: 1=Yes; 0=No	22	0.50	0	1	0.27
Other_1_D	Purchased in region D: 1=Yes; 0=No	22	0.05	0	1	0.31
- JUIGI_1_D	i dionasca in region D. 1-103, U-NU		0.00	U	ı	U.Z I

Appendix G1.–Page 5 of 13

Variable	Label	N	Mean	Min	Max	Std Dev
Other_1_E	Purchased in region E: 1=Yes; 0=No	22	0.14	0	1	0.35
Other_1_F	Purchased in region F: 1=Yes; 0=No	22	0	0	0	0
Other_out_1	Purchased Outside Alaska 1=Yes; 0=No	0				
LastMo_JulOct	1=July; 2=August; 3=September; 4=October; 5=Did not fish	0				
tripdays_2	Total number of days in last trip to Alaska	0				
fich days 2	Number of days fishing in Alaska between July 1st and Oct. 31st,					
fishdays_2	2007	0				
commit_2	Purchased in region A: 1=Yes; 0=No	0				
fish_type_2	1=Rod&Reel 2=Shellfishing	0				
water_type_2	1=In Freshwater; 2=In Saltwater; 3=In Both	0				
charter_2	Purchased in region B: 1=Yes; 0=No	0				
trip2_A	Region A; 1=Yes; 0=No	0				
trip2_B	Region B; 1=Yes; 0=No	0				
trip2_C	Region C; 1=Yes; 0=No	0				
trip2_D	Region D; 1=Yes; 0=No	0				
trip2_E	Region E; 1=Yes; 0=No	0				
trip2_F	Region F; 1=Yes; 0=No	0				
King_2	King Salmon 1=Yes; 0=No	0				
Silver_2	Silver Salmon 1=Yes; 0=No	0				
Red_2	Red Salmon 1=Yes; 0=No	0				
OtherSalm_2	Other Salmon 1=Yes; 0=No	0				
OtherFresh_2	Other Freshwater 1=Yes; 0=No	0				
Steel_2	Steelhead 1=Yes; 0=No	0				
Trout_2	Trout 1=Yes; 0=No	0				
Halibut_2	Halibut 1=Yes; 0=No	0				
Shell_2	Shellfish 1=Yes; 0=No	0				
PtherSalt_2	Other Saltwater 1=Yes; 0=No	0				
pkg_2	Total Cost of Pre-arranged cruise, package tour, or charter trip	0				
pkg_2_A	Visited 1=Yes; 0=No	0				
pkg_2_B	Visited 1=Yes; 0=No	0				
pkg_2_C	Visited 1=Yes; 0=No	0				
pkg_2_D	Visited 1=Yes; 0=No	0				
pkg_2_E	Visited 1=Yes; 0=No	0				
pkg_2_F	Visited 1=Yes; 0=No	0				
pkg_2_air	Transportation to/from Alaska 1=Yes; 0=No	0				
pkg_2_trans	Transportation in Alaska 1=Yes; 0=No	0				
pkg_2_guide	Guides &/or charter boat 1=Yes; 0=No	0				•
pkg_2_lodge	Lodging 1=Yes; 0=No	0				
pkg_2_food	Meals 1=Yes; 0=No	0		•		
pkg_2_lic	Fishing License 1=Yes; 0=No	0				
Lic_2	Total Amount Spent on License and Stamp	0				
Lic_2_A	Purchased in region A: 1=Yes; 0=No	0		•	•	
Lic_2_B	Purchased in region B: 1=Yes; 0=No	0				
Lic_2_C	Purchased in region C: 1=Yes; 0=No	0		•	•	
Lic_2_D	Purchased in region D: 1=Yes; 0=No	0				
Lic_2_E	Purchased in region E: 1=Yes; 0=No	0		•	•	
Lic_2_F	Purchased in region F: 1=Yes; 0=No	0			•	
Lic_2_out	Purchased Outside Alaska 1=Yes; 0=No	0	(25.00		1 200	012 17
Fuel_2	Total Amount Spent on Fuel	2	625.00	50	1,200	813.17
Fuel_2_A	Purchased in region A: 1=Yes; 0=No	2	0.50	0	1	0.71
Fuel_2_B	Purchased in region B: 1=Yes; 0=No	2	0.50	0	1	0.71
Fuel_2_C	Purchased in region C: 1=Yes; 0=No	2	0.50	0	1	0.71
Fuel_2_D	Purchased in region D: 1=Yes; 0=No	2	0 50	0	0	0 71
Fuel_2_E	Purchased in region E: 1=Yes; 0=No	2 2	0.50	0	1	0.71
Fuel_2_F	Purchased in region F: 1=Yes; 0=No		0	U	0	0

Appendix G1.-Page 6 of 13

Variable	Label	N	Mean	Min	Max	Std Dev
Fuel_out_2	Purchased Outside Alaska 1=Yes; 0=No	0				
Guide_2	Total Amount Spent on Guide	0				
Guide_2_A	Purchased in region A: 1=Yes; 0=No	0				
Guide_2_B	Purchased in region B: 1=Yes; 0=No	0				
Guide_2_C	Purchased in region C: 1=Yes; 0=No	0				
Guide_2_D	Purchased in region D: 1=Yes; 0=No	0				
Guide_2_E	Purchased in region E: 1=Yes; 0=No	0				
Guide_2_F	Purchased in region F: 1=Yes; 0=No	0			•	·
Guide_out_2	Purchased Outside Alaska 1=Yes; 0=No	0			•	•
Air_2	Total Amount Spent on Airfare	0			•	•
Air_2_A	Purchased in region A: 1=Yes; 0=No	0	•	•	•	•
Air_2_R	Purchased in region B: 1=Yes; 0=No	0	•	•	•	•
Air_2_C	Purchased in region C: 1=Yes; 0=No	0	•	•	•	•
Air_2_0	Purchased in region D: 1=Yes; 0=No	0		•	•	•
Air_2_E	Purchased in region E: 1=Yes; 0=No	0	•		•	•
Air_2_E Air_2_F	Purchased in region F: 1=Yes; 0=No	0	•	•	•	•
	Purchased Outside Alaska 1=Yes; 0=No	0	•	•	•	•
Air_out_2 Travel_2	Total Amount Spent on Commercial Travel Within Alaska	0	•		•	
	·	0	•		•	
Travel_2_A	Purchased in region A: 1=Yes; 0=No		•	•	•	•
Travel_2_B	Purchased in region B: 1=Yes; 0=No	0			•	•
Travel_2_C	Purchased in region C: 1=Yes; 0=No	0			•	•
Travel_2_D	Purchased in region D: 1=Yes; 0=No	0	•			•
Travel_2_E	Purchased in region E: 1=Yes; 0=No	0	•	•		
Travel_2_F	Purchased in region F: 1=Yes; 0=No	0	•	•		
Travel_out_2	Purchased Outside Alaska 1=Yes; 0=No	0	•		•	
Process_2	Total Amount Spent on Fish Processing	0				
Process_2_A	Purchased in region A: 1=Yes; 0=No	0				
Process_2_B	Purchased in region B: 1=Yes; 0=No	0				
Process_2_C	Purchased in region C: 1=Yes; 0=No	0				•
Process_2_D	Purchased in region D: 1=Yes; 0=No	0				
Process_2_E	Purchased in region E: 1=Yes; 0=No	0				•
Process_2_F	Purchased in region F: 1=Yes; 0=No	0				
Process_out_2	Purchased Outside Alaska 1=Yes; 0=No	0				
Rentals_2	Total Amount Spent on Rentals (boats, auto, etc)	0				
Rentals_2_A	Purchased in region A: 1=Yes; 0=No	0				
Rentals_2_B	Purchased in region B: 1=Yes; 0=No	0				
Rentals_2_C	Purchased in region C: 1=Yes; 0=No	0			•	
Rentals_2_D	Purchased in region D: 1=Yes; 0=No	0			•	
Rentals_2_E	Purchased in region E: 1=Yes; 0=No	0				
Rentals_2_F	Purchased in region F: 1=Yes; 0=No	0				
Rentals_out_2	Purchased Outside Alaska 1=Yes; 0=No	0				
Derby_2	Total Amount Spent on Derby Tickets	0				
Derby_2_A	Purchased in region A: 1=Yes; 0=No	0				
Derby_2_B	Purchased in region B: 1=Yes; 0=No	0				
Derby_2_C	Purchased in region C: 1=Yes; 0=No	0				
Derby_2_D	Purchased in region D: 1=Yes; 0=No	0				
Derby_2_E	Purchased in region E: 1=Yes; 0=No	0				
Derby_2_F	Purchased in region F: 1=Yes; 0=No	0			.	
Derby_out_2	Purchased Outside Alaska 1=Yes; 0=No	0				
Dock_2	Total Amount Spent on Dockage	0				
Dock_2_A	Purchased in region A: 1=Yes; 0=No	0			.	
Dock_2_B	Purchased in region B: 1=Yes; 0=No	0			.	
Dock_2_C	Purchased in region C: 1=Yes; 0=No	0			.	<u>.</u> [
Dock_2_D	Purchased in region D: 1=Yes; 0=No	0				
Dock_2_E	Purchased in region E: 1=Yes; 0=No	0			.	
		J	•	•	•	•

Appendix G1.–Page 7 of 13

Variable	Label	N	Mean	Min	Max	Std Dev
Dock_2_F	Purchased in region F: 1=Yes; 0=No	0				
Dock_out_2	Purchased Outside Alaska 1=Yes; 0=No	0				
lce_2	Total Amount Spent on Ice	0				
Ice_2_A	Purchased in region A: 1=Yes; 0=No	0				
Ice_2_B	Purchased in region B: 1=Yes; 0=No	0				
Ice_2_C	Purchased in region C: 1=Yes; 0=No	0				
lce_2_D	Purchased in region D: 1=Yes; 0=No	0				
Ice_2_E	Purchased in region E: 1=Yes; 0=No	0				
Ice_2_F	Purchased in region F: 1=Yes; 0=No	0				
Ice_out_2	Purchased Outside Alaska 1=Yes; 0=No	0				
Bait_2	Total Amount Spent on Bait	0				
Bait_2_A	Purchased in region A: 1=Yes; 0=No	0				
Bait_2_B	Purchased in region B: 1=Yes; 0=No	0				
Bait_2_C	Purchased in region C: 1=Yes; 0=No	0				
Bait_2_D	Purchased in region D: 1=Yes; 0=No	0				
Bait_2_E	Purchased in region E: 1=Yes; 0=No	0				
Bait_2_F	Purchased in region F: 1=Yes; 0=No	0			•	·
Bait_out_2	Purchased Outside Alaska 1=Yes; 0=No	0		•	•	
Groceries_2	Total Amount Spent on Groceries, Food, and Liquor	0		•	•	
Groceries_2_A	Purchased in region A: 1=Yes; 0=No	0		•	•	
Groceries_2_R Groceries_2_B	Purchased in region B: 1=Yes; 0=No	0	•	•	•	
Groceries_2_B Groceries_2_C	Purchased in region C: 1=Yes; 0=No	0	•	•	•	
Groceries_2_D	Purchased in region D: 1=Yes; 0=No	0	•	•	•	•
Groceries_2_E	Purchased in region E: 1=Yes; 0=No	0	•	•	•	•
Groceries_2_E Groceries_2_F	Purchased in region F: 1=Yes; 0=No	0	•	•	•	
Groceries_out_2	Purchased Outside Alaska 1=Yes; 0=No	0	•	•	•	
Meals_2	Total Amount Spent on Restaurants, bars, and Take-Out	0	•	•	•	
Meals_2_A	Purchased in region A: 1=Yes; 0=No	0	•	•	•	
Meals_2_B	Purchased in region B: 1=Yes; 0=No	0	•	•	•	
Meals_2_C	Purchased in region C: 1=Yes; 0=No	0	•	•	•	
Meals_2_D	Purchased in region D: 1=Yes; 0=No	0	•	•	•	
Meals_2_E	Purchased in region E: 1=Yes; 0=No	0	•	•	•	
Meals_2_F	Purchased in region F: 1=Yes; 0=No	0	•	•	•	
Meals_out_2	Purchased Outside Alaska 1=Yes; 0=No	0	•	•	•	
	Total Amount Spent on Lodging	0	•	•	•	
Lodging_2		0	•	•	•	•
Lodging_2_A	Purchased in region A: 1=Yes; 0=No			•	•	
Lodging_2_B	Purchased in region B: 1=Yes; 0=No	0	•	•	•	
Lodging_2_C	Purchased in region C: 1=Yes; 0=No	0	•	•	•	
Lodging_2_D	Purchased in region D: 1=Yes; 0=No	0	•		•	
Lodging_2_E	Purchased in region E: 1=Yes; 0=No	0	•	•	•	
Lodging_2_F	Purchased in region F: 1=Yes; 0=No	0			•	
Lodge_out_2	Purchased Outside Alaska 1=Yes; 0=No	0			•	
Gifts_2	Total Amount Spent on Souvenirs and Gifts	0		•	•	
Gifts_2_A	Purchased in region A: 1=Yes; 0=No	0			•	
Gifts_2_B	Purchased in region B: 1=Yes; 0=No	0		•	•	
Gifts_2_C	Purchased in region C: 1=Yes; 0=No	0			•	
Gifts_2_D	Purchased in region D: 1=Yes; 0=No	0			•	
Gifts_2_E	Purchased in region E: 1=Yes; 0=No	0				
Gifts_2_F	Purchased in region F: 1=Yes; 0=No	0				
Gifts_out_2	Purchased Outside Alaska 1=Yes; 0=No	0				
Amusement_2	Total Amount Spent on Other Entertainment	0				
Amusement_2_A	Purchased in region A: 1=Yes; 0=No	0				
Amusement_2_B	Purchased in region B: 1=Yes; 0=No	0	.		.	
Amusement_2_C	Purchased in region C: 1=Yes; 0=No	0	.		.	
Amusement_2_D	Purchased in region D: 1=Yes; 0=No	0				

**NOTE: Summary statistics of raw survey data.** The mean values reported here do not necessarily represent average spending by all Alaska anglers; the standard deviations do to not apply to final spending estimates. This table includes raw survey data that underwent numerous transformations to produce the final study estimates.

Appendix G1.–Page 8 of 13

Variable	Label	N	Mean	Min	Max	Std Dev
Amusement_2_E	Purchased in region E: 1=Yes; 0=No	0				
Amusement_2_F	Purchased in region F: 1=Yes; 0=No	0				
Amusement_out_2	Purchased Outside Alaska 1=Yes; 0=No	0				
Other_2	Total Amount Spent on Other	0				
Other_2_A	Purchased in region A: 1=Yes; 0=No	0				
Other_2_B	Purchased in region B: 1=Yes; 0=No	0				
Other_2_C	Purchased in region C: 1=Yes; 0=No	0				
Other_2_D	Purchased in region D: 1=Yes; 0=No	0				
Other_2_E	Purchased in region E: 1=Yes; 0=No	0				
Other_2_F	Purchased in region F: 1=Yes; 0=No	0				
Other_out_2	Purchased Outside Alaska 1=Yes; 0=No	0				
Eq_Lic	Total Amount Spent on License and Stamps	353	41.97	0	300	32.66
Eq_Lic_A	Purchased in region A: 1=Yes; 0=No	315	0.20	0	1	0.40
Eq_Lic_B	Purchased in region B: 1=Yes; 0=No	315	0.06	0	1	0.24
Eq_Lic_C	Purchased in region C: 1=Yes; 0=No	315	0.53	0	1	0.50
Eq_Lic_D	Purchased in region D: 1=Yes; 0=No	315	0.28	0	75	4.23
Eq_Lic_E	Purchased in region E: 1=Yes; 0=No	315	0.17	0	1	0.37
Eq_Lic_F	Purchased in region F: 1=Yes; 0=No	315	0.03	0	1	0.16
Eq_RodReel	Total Amount Spent on Rods, Reels, and Components	353	127.86	0	2,500	257.69
Eq_Rods_A	Purchased in region A: 1=Yes; 0=No	186	0.17	0	1	0.38
Eq_Rods_B	Purchased in region B: 1=Yes; 0=No	186	0.05	0	1	0.23
Eq_Rods_C	Purchased in region C: 1=Yes; 0=No	186	0.56	0	1	0.50
Eq_Rods_D	Purchased in region D: 1=Yes; 0=No	186	0.04	Ő	1	0.20
Eq_Rods_E	Purchased in region E: 1=Yes; 0=No	186	0.16	0	1	0.36
Eq_Rods_F	Purchased in region F: 1=Yes; 0=No	186	0.02	0	1	0.15
Eq_Tackle	Total Amount Spent on Fishing Tackle	353	88.59	0	3,170	208.56
Eq_Tackle_A	Purchased in region A: 1=Yes; 0=No	258	0.20	0	1	0.40
Eq_Tackle_B	Purchased in region B: 1=Yes; 0=No	258	0.08	0	1	0.27
Eq_Tackle_C	Purchased in region C: 1=Yes; 0=No	258	0.53	0	1	0.50
Eq_Tackle_D	Purchased in region D: 1=Yes; 0=No	258	0.05	0	1	0.22
Eq_Tackle_E	Purchased in region E: 1=Yes; 0=No	258	0.16	Ő	1	0.37
Eq_Tackle_F	Purchased in region F: 1=Yes; 0=No	258	0.02	0	1	0.12
Eq_Tacklebox	Total Amount Spent on Tackle Boxes	353	10.25	0	400	32.56
Eq_Tacklebox_A	Purchased in region A: 1=Yes; 0=No	79	0.16	Ő	1	0.37
Eq_Tacklebox_B	Purchased in region B: 1=Yes; 0=No	79	0.04	0	1	0.19
Eq_Tacklebox_C	Purchased in region C: 1=Yes; 0=No	79	0.57	Ő	1	0.50
Eq_Tacklebox_D	Purchased in region D: 1=Yes; 0=No	79	0.06	0	1	0.25
Eq_Tacklebox_E	Purchased in region E: 1=Yes; 0=No	79	0.09	0	1	0.29
Eq_Tacklebox_F	Purchased in region F: 1=Yes; 0=No	79	0.01	0	1	0.11
Eq_Electronics	Total Amount Spent on Fish/Depth Finder	353	72.72	0	5,412	391.56
Eq_Elec_A	Purchased in region A: 1=Yes; 0=No	43	0.30	0	1	0.46
Eq_Elec_B	Purchased in region B: 1=Yes; 0=No	43	0.07	0	1	0.46
Eq_Elec_C	Purchased in region C: 1=Yes; 0=No	43	0.35	0	1	0.48
Eq_Elec_D	Purchased in region D: 1=Yes; 0=No	43	0.02	0	1	0.40
Eq_Elec_E	Purchased in region E: 1=Yes; 0=No	43	0.02	0	1	0.15
Eq_Elec_F	Purchased in region F: 1=Yes; 0=No	43	0.07	0	0	0.20
Eq_Nets	Total Amount Spent on Dip/Gill Nets	353	20.89	0	1,000	69.38
Eq_Nets_A	Purchased in region A: 1=Yes; 0=No	85	0.14	0	1,000	0.35
Eq_Nets_B	Purchased in region B: 1=Yes; 0=No	84	0.14	0	1	0.33
	Purchased in region C: 1=Yes; 0=No	85	0.55			
Eq_Nets_C		85		0	1 1	0.50 0.15
Eq_Nets_D	Purchased in region D: 1=Yes; 0=No		0.02	0		
Eq_Nets_E	Purchased in region E: 1=Yes; 0=No	85 95	0.12	0	1	0.32
Eq_Nets_F	Purchased in region F: 1=Yes; 0=No	85	0.04	0	1	0.19
Eq_Misc	Total Amount Spent on Miscellaneous Fishing Equipment	353	26.93	0	500	54.07
Eq_Misc_A	Purchased in region A: 1=Yes; 0=No	151	0.21	0	1	0.41

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Appendix G1.–Page 9 of 13

Eq_Misc_B Pur		N	Mean	Min	Max	Std Dev
1 1	urchased in region B: 1=Yes; 0=No	151	0.09	0	1	0.28
Eq_Misc_C Pur	urchased in region C: 1=Yes; 0=No	151	0.55	0	1	0.50
Eq_Misc_D Pur	urchased in region D: 1=Yes; 0=No	151	0.05	0	1	0.21
Eq_Misc_E Pur	urchased in region E: 1=Yes; 0=No	151	0.12	0	1	0.33
	urchased in region F: 1=Yes; 0=No	151	0.01	0	1	0.08
Eq_Shellfish Tot	otal Amount Spent on	352	11.26	0	600	55.73
Eq_Shellfish_A Pur	urchased in region A: 1=Yes; 0=No	44	0.32	0	1	0.47
	urchased in region B: 1=Yes; 0=No	44	0.05	0	1	0.21
	urchased in region C: 1=Yes; 0=No	44	0.45	0	1	0.50
	urchased in region D: 1=Yes; 0=No	43	0	0	0	0
	urchased in region E: 1=Yes; 0=No	43	0.02	0	1	0.15
	urchased in region F: 1=Yes; 0=No	44	0	0	0	0
-	otal Amount Spent on Taxidermy	353	13.60	0	4,500	240.00
	urchased in region A: 1=Yes; 0=No	11	0	0	0	0
	urchased in region B: 1=Yes; 0=No	11	0	0	0	0
	urchased in region C: 1=Yes; 0=No	11	0.36	0	1	0.50
	urchased in region D: 1=Yes; 0=No	11	0	0	0	0
	urchased in region E: 1=Yes; 0=No	11	0	0	0	0
	urchased in region F: 1=Yes; 0=No	11	0	0	0	0
	otal Amount Spent on	353	8.54	0	350	28.79
	urchased in region A: 1=Yes; 0=No	76	0.13	0	1	0.34
	urchased in region B: 1=Yes; 0=No	76	0.07	0	1	0.25
	urchased in region C: 1=Yes; 0=No	76	0.62	0	1	0.49
	urchased in region D: 1=Yes; 0=No	76	0.03	0	1	0.16
	urchased in region E: 1=Yes; 0=No	76	0.11	0	1	0.31
	urchased in region F: 1=Yes; 0=No	76	0.03	0	1	0.16
	otal Amount Spent on Preserving/Smoking	353	47.28	0	600	92.84
	urchased in region A: 1=Yes; 0=No	142	0.18	0	1	0.39
	urchased in region B: 1=Yes; 0=No	141	0.08	0	1	0.27
	urchased in region C: 1=Yes; 0=No	142	1.09	0	75	6.27
	urchased in region D: 1=Yes; 0=No	142	0.04	0	1	0.20
	urchased in region E: 1=Yes; 0=No	142	0.10	0	1	0.30
	urchased in region F: 1=Yes; 0=No	142	0.02	0	1	0.14
	used for sportfishing	62	84.19	0	100	27.64
	otal Amount Spent on Coolers	353	21.64	0	300	48.50
	urchased in region A: 1=Yes; 0=No	115	0.17	0	1	0.38
	urchased in region B: 1=Yes; 0=No	115	0.09	0	1	0.28
	urchased in region C: 1=Yes; 0=No	115	0.59	0	1	0.49
	urchased in region D: 1=Yes; 0=No	115	0.03	0	1	0.18
	urchased in region E: 1=Yes; 0=No	115	0.09	0	1	0.28
·	urchased in region F: 1=Yes; 0=No	115	0	0	0	0
	used for sportfishing	59	80.34	20	100	27.68
	otal Amount Spent on Clothing	353	50.08	0	1,200	120.96
	urchased in region A: 1=Yes; 0=No	125	0.19	0	1	0.40
	urchased in region B: 1=Yes; 0=No	125	0.06	0	1	0.23
	urchased in region C: 1=Yes; 0=No	125	0.55	0	1	0.50
	urchased in region D: 1=Yes; 0=No	125	0.07	0	1	0.26
	urchased in region E: 1=Yes; 0=No	125	0.10	0	1	0.31
	urchased in region F: 1=Yes; 0=No	124	0.01	0	1	0.09
	used for sportfishing	60	77.58	0	100	32.03
	otal Amount Spent on Boots, and Shoes	353	43.31	0	550	77.21
	urchased in region A: 1=Yes; 0=No	144	0.17	0	1	0.38
	urchased in region B: 1=Yes; 0=No	144	0.05	0	1	0.22
	urchased in region C: 1=Yes; 0=No	144	0.57	0	1	0.50
	urchased in region D: 1=Yes; 0=No	144	0.06	0	1	0.24

**NOTE: Summary statistics of raw survey data.** The mean values reported here do not necessarily represent average spending by all Alaska anglers; the standard deviations do to not apply to final spending estimates. This table includes raw survey data that underwent numerous transformations to produce the final study estimates.

Appendix G1.-Page 10 of 13

Variable	Label	N	Mean	Min	Max	Std Dev
Eq_Boots_E	Purchased in region E: 1=Yes; 0=No	144	0.09	0	1	0.29
Eq_Boots_F	Purchased in region F: 1=Yes; 0=No	144	0.01	0	1	0.08
Eq_BootsPct	% used for sportfishing	70	84.64	5	100	25.98
Eq_LJackets	Total Amount Spent on Life Jackets, and Survival Suits	353	22.38	0	1,000	81.58
Eq_LJackets_A	Purchased in region A: 1=Yes; 0=No	66	0.17	0	1	0.38
Eq_LJackets_B	Purchased in region B: 1=Yes; 0=No	65	0.05	0	1	0.21
Eq_LJackets_C	Purchased in region C: 1=Yes; 0=No	65	0.51	0	1	0.50
Eq_LJackets_D	Purchased in region D: 1=Yes; 0=No	66	0.05	0	1	0.21
Eq_LJackets_E	Purchased in region E: 1=Yes; 0=No	66	0.14	0	1	0.35
Eq_LJackets_F	Purchased in region F: 1=Yes; 0=No	66	0.02	0	1	0.12
Eq_LJacketsPct	% used for sportfishing	29	83.97	10	100	30.66
Eq_Boats	Total Amount Spent on Boats, Canoes, Watercraft, etc	352	920.23	0	78,000	6,185.37
Eq_Boats_A	Purchased in region A: 1=Yes; 0=No	45	0.13	0	1	0.34
Eq_Boats_B	Purchased in region B: 1=Yes; 0=No	45	0.02	0	1	0.15
Eq_Boats_C	Purchased in region C: 1=Yes; 0=No	45	0.58	0	1	0.50
Eq_Boats_D	Purchased in region D: 1=Yes; 0=No	45	0	0	0	0
Eq_Boats_E	Purchased in region E: 1=Yes; 0=No	45	0.11	0	1	0.32
Eq_Boats_F	Purchased in region F: 1=Yes; 0=No	45	0	0	0	0
Eq_BoatsPct	% used for sportfishing	21	85.95	25	100	24.17
Eq_Motors	Total Amount Spent on Boat Motors	353	641.44	0	38,000	3,399.75
Eq_Motors_A	Purchased in region A: 1=Yes; 0=No	44	0.23	0	1	0.42
Eq_Motors_B	Purchased in region B: 1=Yes; 0=No	44	0.02	0	1	0.15
Eq_Motors_C	Purchased in region C: 1=Yes; 0=No	44	0.50	0	1	0.51
Eq_Motors_D	Purchased in region D: 1=Yes; 0=No	44	0	0	0	0
Eq_Motors_E	Purchased in region E: 1=Yes; 0=No	44	0.09	0	1	0.29
Eq_Motors_F	Purchased in region F: 1=Yes; 0=No	44	0	0	0	0
Eq_MotorsPct	% used for sportfishing	19	88.16	50	100	19.38
Eq_Trailers	Total Amount Spent on Boat Trailers	352	105.53	0	6,700	573.78
Eq_Trailers_A	Purchased in region A: 1=Yes; 0=No	64	0.19	0	1	0.39
Eq_Trailers_B	Purchased in region B: 1=Yes; 0=No	65	0.03	0	1	0.17
Eq_Trailers_C	Purchased in region C: 1=Yes; 0=No	65	0.55	0	1	0.50
Eq_Trailers_D	Purchased in region D: 1=Yes; 0=No	65	0.03	0	1	0.17
Eq_Trailers_E	Purchased in region E: 1=Yes; 0=No	65	0.06	0	1	0.24
Eq_Trailers_F	Purchased in region F: 1=Yes; 0=No	65	0.03	0	1	0.17
Eq_TrailersPct	% used for sportfishing	32	69.22	0	100	35.45
Eq_OtherParts	Total Amount Spent on Other Boat Parts	353	118.92	0	5,000	502.38
Eq_OtherParts_A	Purchased in region A: 1=Yes; 0=No	85	0.21	0	1	0.41
Eq_OtherParts_B	Purchased in region B: 1=Yes; 0=No	85	0.04	0	1	0.19
Eq_OtherParts_C	Purchased in region C: 1=Yes; 0=No	85	0.47	0	1	0.50
Eq_OtherParts_D	Purchased in region D: 1=Yes; 0=No	85	0.04	0	1	0.19
Eq_OtherParts_E	Purchased in region E: 1=Yes; 0=No	85	0.18	0	1	0.38
Eq_OtherParts_F	Purchased in region F: 1=Yes; 0=No	85	0	0	0	0
Eq_OtherPartsPct	% used for sportfishing	43	86.86	10	100	24.66
Eq_BearSpray	Total Amount Spent on Bear Spray, Bug Spray, etc	353	14.11	0	650	41.96
Eq_BearSpray_A	Purchased in region A: 1=Yes; 0=No	141	0.16	0	1	0.36
Eq_BearSpray_B	Purchased in region B: 1=Yes; 0=No	141	0.08	0	1	0.27
Eq_BearSpray_C	Purchased in region C: 1=Yes; 0=No	141	0.53	0	1	0.50
Eq_BearSpray_D	Purchased in region D: 1=Yes; 0=No	140	0.05	0	1	0.22
Eq_BearSpray_E	Purchased in region E: 1=Yes; 0=No	140	0.17	0	1	0.38
Eq_BearSpray_F	Purchased in region F: 1=Yes; 0=No	141	0.02	0	1	0.14
Eq_BearSprayPct	% used for sportfishing	75	63.75	0	100	32.61
Eq_Firearms	Total Amount Spent on Firearms	353	64.75	0	2,000	218.66
Eq_Firearms_A	Purchased in region A: 1=Yes; 0=No	50	0.10	0	1	0.30
Eq_Firearms_B	Purchased in region B: 1=Yes; 0=No	50	0.06	0	1	0.24
Eq_Firearms_C	Purchased in region C: 1=Yes; 0=No	50	0.56	0	1	0.50

**NOTE: Summary statistics of raw survey data.** The mean values reported here do not necessarily represent average spending by all Alaska anglers; the standard deviations do to not apply to final spending estimates. This table includes raw survey data that underwent numerous transformations to produce the final study estimates.

Appendix G1.-Page 11 of 13

Eq. Firearms   Feq. Cameras   Fer. Firearms   Feq. Cameras   Fer. Firearms   Feq. Cameras   Feg. Camer	Variable	Label	N	Mean	Min	Max	Std Dev
E.g., Fineams, P.d. E.g., Fineams, P.d. E.g., Fineams, P.d. E.g., Cameras E.g., Cameras E.g., Cameras, A. E.g., Cameras, A. E.g., Cameras, A. E.g., Cameras, A. Purchased in region 8: 14-Yes: 0-No Purchased in region 1: 14-Yes: 0-No Purchased in r	Eq_Firearms_D	Purchased in region D: 1=Yes; 0=No	50	0.06	0	1	0.24
Eq. Cameras A   Purchased in region 1: 1-Yes: 0-No   96   0.00   0.10   0.260   20018	Eq_Firearms_E	Purchased in region E: 1=Yes; 0=No	50	0.12	0	1	0.33
Eq. Cameras A   Foundation	Eq_Firearms_F	Purchased in region F: 1=Yes; 0=No	50	0	0	0	0
Eq. Cameras. A         Purchased in region A: 1-Yes: 0-No         96         0.20         0         1         0.40           Eq. Cameras. B         Purchased in region D: 1-Yes: 0-No         96         0.54         0         1         0.50           Eq. Cameras. D         Purchased in region D: 1-Yes: 0-No         96         0.54         0         1         0.50           Eq. Cameras. E         Purchased in region D: 1-Yes: 0-No         96         0.04         0         1         0.24           Eq. Cameras. A         Purchased in region F: 1-Yes: 0-No         96         0.04         0         1         0.34           Eq. Cameras. A         Purchased in region F: 1-Yes: 0-No         96         0.04         0         0         0           Eq. Tents. C         Purchased in region B: 1-Yes: 0-No         70         0.09         0         1         0.02           Eq. Tents. D         Purchased in region B: 1-Yes: 0-No         70         0.09         0         1         0.47           Eq. Tents. E         Purchased in region F: 1-Yes: 0-No         70         0.07         0.09         0         1         0.47           Eq. Tents. E         Purchased in region B: 1-Yes: 0-No         70         0.01         0         1         0.4	Eq_FirearmsPct	% used for sportfishing	29	52.07	0	100	36.63
Fq. Cameras, B		Total Amount Spent on Camera, Binoculars, Sun Glasses	353	55.97	0	2,600	200.18
Eq. Cameras, B.         Purchased in region B: 1-Yes: 0-No         96         0.06         0         1         0.24           Eq. Cameras, C.         Purchased in region D: 1-Yes: 0-No         96         0.04         0         1         0.20           Eq. Cameras, D.         Purchased in region E: 1-Yes: 0-No         96         0.04         0         1         0.20           Eq. Cameras F.         Purchased in region E: 1-Yes: 0-No         96         0.04         0         1         0.20           Eq. Cameras F.         Purchased in region E: 1-Yes: 0-No         96         0.04         0         1         0.20           Eq. Tents G.         Purchased in region E: 1-Yes: 0-No         70         0.04         0         1         0.20           Eq. Tents B.         Purchased in region A: 1-Yes: 0-No         70         0.04         0         1         0.28           Eq. Tents B.         Purchased in region C: 1-Yes: 0-No         70         0.07         0.07         0         1         0.02           Eq. Tents P.         Purchased in region E: 1-Yes: 0-No         70         0.01         0         1         0.12           Eq. Tents P.         Purchased in region E: 1-Yes: 0-No         70         0.01         0         1 <td< td=""><td>Eq_Cameras_A</td><td>Purchased in region A: 1=Yes; 0=No</td><td>96</td><td>0.20</td><td>0</td><td>1</td><td>0.40</td></td<>	Eq_Cameras_A	Purchased in region A: 1=Yes; 0=No	96	0.20	0	1	0.40
Eq. Cameras. C. Eq. Cameras. E. Purchased in region E: 1-Yes: 0-No         96         0.04         0         1         0.50           Eq. Cameras. F. Eq. Cameras. E. Eq. Cameras. E. C. Cameras. E. C. Cameras. E. E. Cameras. E. E. Cameras. E. E. Cameras. E. Purchased in region F: 1-Yes: 0-No         96         0.14         0         1         0.34           Eq. Tents. A. E. C. Total Amount Spent on Tents, etc         353         31.73         0         1,000         95.74           Eq. Tents. B. Purchased in region B: 1-Yes: 0-No         70         0.09         0         1         0.20           Eq. Tents. B. Purchased in region B: 1-Yes: 0-No         70         0.09         0         1         0.20           Eq. Tents. D. Purchased in region D: 1-Yes: 0-No         70         0.09         0         1         0.47           Eq. Tents. E. Purchased in region D: 1-Yes: 0-No         70         0.01         0         1         0.42           Eq. Tents. F. Purchased in region D: 1-Yes: 0-No         70         0.01         0         1         0.02           Eq. Tents. F. Purchased in region F: 1-Yes: 0-No         70         0.03         0         1         0.12           Eq. Tents. F. Purchased in region D: 1-Yes: 0-No         70         0.03	Eq_Cameras_B		96	0.06	0	1	0.24
F.Q. Cameras, D.   Purchased in region D: 1-Yes: 0-No   96   0.04   0   1   0.20   F.Q. Cameras, F.   Purchased in region F: 1-Yes: 0-No   96   0.04   0   1   0.20   F.Q. Cameras, F.   Purchased in region F: 1-Yes: 0-No   96   0.0   0   0   0   F.Q. Cameras, F.   Purchased in region F: 1-Yes: 0-No   96   0.0   0   0   0   F.Q. Cameras, F.   Purchased in region F: 1-Yes: 0-No   70   0.04   0   1   0.20   F.Q. Tentis, A.   Purchased in region A: 1-Yes: 0-No   70   0.04   0   1   0.20   F.Q. Tentis, B.   Purchased in region B: 1-Yes: 0-No   70   0.07   0.07   0.07   0.07   F.Q. Tentis, C.   Purchased in region C: 1-Yes: 0-No   70   0.07   0.07   0.07   0.07   F.Q. Tentis, D.   Purchased in region F: 1-Yes: 0-No   70   0.07   0.07   0.07   0.07   F.Q. Tentis, F.   Purchased in region F: 1-Yes: 0-No   70   0.07   0.07   0.07   0.07   0.07   F.Q. Tentis, F.   Purchased in region F: 1-Yes: 0-No   70   0.01   0   0   1   0.17   F.Q. Tentis, F.   Purchased in region F: 1-Yes: 0-No   70   0.03   0   1   0.17   F.Q. Tentis, F.   Purchased in region F: 1-Yes: 0-No   70   0.03   0   0   0.03   F.Q. Campers, A.   Purchased in region B: 1-Yes: 0-No   27   0.07   0   0   0.03   F.Q. Campers, A.   Purchased in region B: 1-Yes: 0-No   27   0.07   0   1   0.27   F.Q. Campers, C.   Purchased in region B: 1-Yes: 0-No   27   0.07   0   1   0.27   F.Q. Campers, D.   Purchased in region B: 1-Yes: 0-No   27   0.07   0   1   0.27   F.Q. Campers, D.   Purchased in region B: 1-Yes: 0-No   27   0.07   0   1   0.27   F.Q. Campers, D.   Purchased in region B: 1-Yes: 0-No   27   0.04   0   1   0.19   F.Q. Campers, D.   Purchased in region B: 1-Yes: 0-No   27   0.05   0   0   F.Q. Campers, D.   Purchased in region B: 1-Yes: 0-No   27   0.05   0   0   0   F.Q. Campers, D.   Purchased in region B: 1-Yes: 0-No   27   0.05   0   0   0   0   F.Q. Campers, D.   Purchased in region B: 1-Yes: 0-No   27   0.05   0   0   0   0   0   0   F.Q. Campers, D.   Purchased in region B: 1-Yes: 0-No   27   0.05   0   0   0   0   0   0   0   0   0			96	0.54	0	1	0.50
Eq. Cameras. E   Purchased in region E: 1=Yes: 0=No   96   0.14   0   1   0.34   Eq. CamerasPct   % used for sportfishing   49   53.88   5   100   31.95   Cq. Tents   Total Amount Spent on Tents, etc   333   31.73   0   1.000   95.74   Cq. Tents, A   Purchased in region F   1=Yes: 0=No   70   0.04   0   1   0.20   Cq. Tents, B   Purchased in region B: 1=Yes: 0=No   70   0.09   0   1   0.20   Cq. Tents, C   Purchased in region D: 1=Yes: 0=No   70   0.00   0   1   0.22   Cq. Tents, C   Purchased in region D: 1=Yes: 0=No   70   0.00   0   1   0.12   Cq. Tents, E   Purchased in region D: 1=Yes: 0=No   70   0.01   0   1   0.30   Cq. Tents, E   Purchased in region D: 1=Yes: 0=No   70   0.01   0   1   0.30   Cq. Tents, E   Purchased in region D: 1=Yes: 0=No   70   0.03   0   1   0.17   Cq. Tents, E   Purchased in region D: 1=Yes: 0=No   70   0.03   0   1   0.17   Cq. Tents, E   Purchased in region D: 1=Yes: 0=No   70   0.03   0   1   0.17   Cq. Tents, E   Purchased in region D: 1=Yes: 0=No   70   0.03   0   1   0.17   Cq. Tents, E   Purchased in region A: 1=Yes: 0=No   27   0   0   0   0   0   0   0   0   0			96		0	1	
Eq. Cameras F   Purchased in region F: 1-Ves; 0-No   96   0   0   0   0   0   0   0   0   0	Eq_Cameras_E	Purchased in region E: 1=Yes; 0=No	96		0	1	
Fa_CamerasPct   Fa_CamerasPct   Fa_CamerasPct   Total Amount Spent on Tents, etc   353   31.73   0   1,000   95,74   Eq_Tents_A   Purchased in region A: 1=Yes; 0=No   70   0.04   0   1   0.20   Eq_Tents_B   Purchased in region B: 1=Yes; 0=No   70   0.09   0   1   0.28   Eq_Tents_C   Purchased in region C: 1=Yes; 0=No   70   0.07   0.07   0   0.01   0   1   0.25   Eq_Tents_B   Purchased in region C: 1=Yes; 0=No   70   0.00   0   1   0.12   Eq_Tents_D   Purchased in region D: 1=Yes; 0=No   70   0.00   0   1   0.12   Eq_Tents_E   Purchased in region E: 1=Yes; 0=No   70   0.00   0   1   0.13   Eq_Tents_E   Purchased in region E: 1=Yes; 0=No   70   0.00   0   1   0.30   Eq_Tents_E   Purchased in region E: 1=Yes; 0=No   70   0.03   0   1   0.17   Eq_TentsPct   Size   Si			96		0	0	
Eq_Tents   Total Amount Spent on Tents, etc   353   33.73   0   1,000   95.74   Eq_Tents_B   Purchased in region A: 1=Yes; 0=No   70   0.04   0   1   0.22   Eq_Tents_B   Purchased in region B: 1=Yes; 0=No   70   0.07   0.09   0   1   0.28   Eq_Tents_D   Purchased in region D: 1=Yes; 0=No   70   0.07   0.07   0.07   0.07   0.07   0.07   Eq_Tents_D   Purchased in region D: 1=Yes; 0=No   70   0.01   0   1   0.12   Eq_Tents_D   Purchased in region D: 1=Yes; 0=No   70   0.01   0   1   0.12   Eq_Tents_F   Purchased in region E: 1=Yes; 0=No   70   0.01   0   1   0.30   Eq_Tents_F   Purchased in region E: 1=Yes; 0=No   70   0.01   0   1   0.30   Eq_Tents_F   Purchased in region B: 1=Yes; 0=No   70   0.01   0   1   0.35   Eq_Campers A   Purchased in region B: 1=Yes; 0=No   27   0.00   0   0   0   0   Eq_Campers_D   Purchased in region B: 1=Yes; 0=No   27   0.07   0   0   0   0   0   Eq_Campers_D   Purchased in region B: 1=Yes; 0=No   27   0.07   0   1   0.27   Eq_Campers_D   Purchased in region B: 1=Yes; 0=No   27   0.05   0   1   0.36   Eq_Campers_D   Purchased in region B: 1=Yes; 0=No   27   0.05   0   0   0   0   Eq_Campers_D   Purchased in region B: 1=Yes; 0=No   27   0.05   0   0   0   0   Eq_Campers_D   Purchased in region B: 1=Yes; 0=No   27   0.05   0   0   0   0   0   Eq_Campers_D   Purchased in region B: 1=Yes; 0=No   27   0.00   0   0   0   0   0   Eq_Compers_D   Purchased in region B: 1=Yes; 0=No   27   0.00   0   0   0   0   0   0   Eq_Compers_D   Purchased in region B: 1=Yes; 0=No   27   0.00   0   0   0   0   0   0   0   0			49	53.88		100	31.95
Eq_Tents_A   Purchased in region A: 1=Yes; 0=No   70   0.04   0   1   0.20   Eq_Tents_B   Purchased in region B: 1=Yes; 0=No   70   0.09   0   1   0.28   Eq_Tents_C   Purchased in region D: 1=Yes; 0=No   70   0.01   0   1   0.47   Eq_Tents_D   Purchased in region D: 1=Yes; 0=No   70   0.01   0   1   0.12   Eq_Tents_E   Purchased in region E: 1=Yes; 0=No   70   0.01   0   1   0.30   Eq_Tents_F   Purchased in region E: 1=Yes; 0=No   70   0.03   0   1   0.17   Eq_Tents_F   Purchased in region E: 1=Yes; 0=No   70   0.03   0   1   0.17   Eq_Tents_F   Purchased in region E: 1=Yes; 0=No   70   0.03   0   1   0.17   Eq_Tents_F   Purchased in region C: 1=Yes; 0=No   27   0.00   0   35.09   Eq_Campers_A   Eq_Campers_B   Purchased in region B: 1=Yes; 0=No   27   0.00   0   0   0   Eq_Campers_B   Purchased in region B: 1=Yes; 0=No   27   0.00   0   0   0   Eq_Campers_B   Purchased in region C: 1=Yes; 0=No   27   0.00   0   0   0   Eq_Campers_B   Purchased in region B: 1=Yes; 0=No   27   0.00   0   0   0   Eq_Campers_B   Purchased in region D: 1=Yes; 0=No   27   0.00   0   0   0   Eq_Campers_B   Purchased in region B: 1=Yes; 0=No   27   0.00   0   0   0   Eq_Campers_B   Purchased in region B: 1=Yes; 0=No   27   0.00   0   0   0   Eq_Campers_B   Purchased in region B: 1=Yes; 0=No   27   0.00   0   0   0   Eq_Campers_B   Purchased in region B: 1=Yes; 0=No   27   0.00   0   0   0   Eq_Campers_B   Purchased in region B: 1=Yes; 0=No   27   0.00   0   0   0   Eq_Cohler_Camp_A   Eq_Ohler_Camp_B   Equipment   353   20.89   0   1,400   95.40   Eq_Ohler_Camp_B   Purchased in region B: 1=Yes; 0=No   50   0.02   0   1   0.33   Eq_Ohler_Camp_B   Purchased in region B: 1=Yes; 0=No   50   0.02   0   1   0.35   Eq_Ohler_Camp_B   Purchased in region B: 1=Yes; 0=No   50   0.02   0   1   0.35   Eq_Ohler_Camp_B   Purchased in region B: 1=Yes; 0=No   50   0.00   0   0   0   Eq_Ohler_Camp_B   Purchased in region B: 1=Yes; 0=No   50   0.00   0   0   0   0   Eq_Ohler_Camp_B   Purchased in region B: 1=Yes; 0=No   50   0.00   0   0   0   0   Eq_Oh			353				
Eq_Tents_B   Purchased in region B: 1=Yes; 0=No   70   0.09   0   1   0.28   Eq_Tents_C   Purchased in region C: 1=Yes; 0=No   70   0.07   0.07   0.07   0.07   Eq_Tents_D   Purchased in region E: 1=Yes; 0=No   70   0.01   0   1   0.12   Eq_Tents_F   Purchased in region E: 1=Yes; 0=No   70   0.01   0   1   0.30   Eq_Tents_F   Purchased in region E: 1=Yes; 0=No   70   0.03   0   1   0.37   Eq_Tents_F   Purchased in region E: 1=Yes; 0=No   70   0.03   0   1   0.37   Eq_Tents_F   Purchased in region E: 1=Yes; 0=No   70   0.03   0   1   0.37   Eq_Tents_F   Purchased in region E: 1=Yes; 0=No   27   0   0   0   0   0   Eq_Campers_A   Purchased in region A: 1=Yes; 0=No   27   0.07   0   0   0   0   Eq_Campers_B   Purchased in region B: 1=Yes; 0=No   27   0.052   0   1   0.57   Eq_Campers_B   Purchased in region E: 1=Yes; 0=No   27   0.052   0   1   0.51   Eq_Campers_B   Purchased in region B: 1=Yes; 0=No   27   0.04   0   1   0.19   Eq_Campers_B   Purchased in region E: 1=Yes; 0=No   27   0.04   0   1   0.19   Eq_Campers_B   Purchased in region B: 1=Yes; 0=No   27   0.04   0   1   0.36   Eq_Campers_B   Purchased in region B: 1=Yes; 0=No   27   0.052   0   1   0.36   Eq_Campers_B   Purchased in region B: 1=Yes; 0=No   27   0.052   0   1   0.36   Eq_Campers_B   Purchased in region B: 1=Yes; 0=No   27   0.052   0   0   0   0   Eq_Campers_B   Purchased in region B: 1=Yes; 0=No   27   0.05   0   0   0   0   Eq_Campers_B   Purchased in region B: 1=Yes; 0=No   50   0.12   0   1   0.36   Eq_Other_Camp_B   Purchased in region B: 1=Yes; 0=No   50   0.02   0   1   0.36   Eq_Other_Camp_B   Purchased in region B: 1=Yes; 0=No   50   0.08   0   1   0.27   Eq_Other_Camp_B   Purchased in region B: 1=Yes; 0=No   50   0.08   0   1   0.27   Eq_Other_Camp_B   Purchased in region B: 1=Yes; 0=No   50   0.08   0   0   0   0   Eq_Other_Camp_B   Purchased in region B: 1=Yes; 0=No   50   0.08   0   0   0   0   Eq_Other_Camp_B   Purchased in region B: 1=Yes; 0=No   50   0.00   0   0   0   0   Eq_Other_Camp_B   Purchased in region B: 1=Yes; 0=No					0		
Eq_Tents_C   Purchased in region C: 1=Yes: 0=No   70   0.67   0   1   0.47			70			1	
Eq_Tents_D   Purchased in region D: 1=Ves; 0=No   70   0.01   0   1   0.12			70				
Eq_Tents_E         Purchased in region E: 1=Yes: 0=No         70         0.10         0         1         0.30           Eq_Tents_F         Purchased in region E: 1=Yes: 0=No         70         0.03         0         1         0.17           Eq_Tents_F         Wused for sportfishing         36         58.33         0         100         35.09           Eq_Campers_A         Purchased in region C anging Trailer         353         303.97         0         25,000         2,162.64           Eq_Campers_B         Purchased in region B: 1=Yes: 0=No         27         0.07         0         1         0.27           Eq_Campers_C         Purchased in region C: 1=Yes: 0=No         27         0.07         0         1         0.51           Eq_Campers_B         Purchased in region D: 1=Yes: 0=No         27         0.04         0         1         0.15           Eq_Campers_F         Purchased in region D: 1=Yes: 0=No         27         0.04         0         0         0           Eq_Campers_F         Purchased in region D: 1=Yes: 0=No         27         0.0         0         0         0           Eq_Other_Camp_B         Eq_Campers_B         Purchased in region B: 1=Yes: 0=No         50         0.12         0         1         0.03 <td></td> <td></td> <td></td> <td></td> <td></td> <td>1</td> <td></td>						1	
Eq_Tents.F         Purchased in region F: 1=Yes; 0=No         70         0.03         0         1         0.17           Eq_TentsPct         % used for sportlishing         36         58.33         0         100         35.09           Eq_Campers         Total Amount Spent on Camping Trailer         353         303.97         0         25.000         2,162.64           Eq_Campers_A         Purchased in region A: 1=Yes; 0=No         27         0.07         0         1         0.27           Eq_Campers_C         Purchased in region D: 1=Yes; 0=No         27         0.07         0         1         0.27           Eq_Campers_D         Purchased in region D: 1=Yes; 0=No         27         0.05         0         1         0.15           Eq_Campers_D         Purchased in region E: 1=Yes; 0=No         27         0.15         1         0.36           Eq_Campers_F         Purchased in region E: 1=Yes; 0=No         27         0.15         0         0         0         0           Eq_Campers_Pct         Re_Colher_Camp_A         Vurchased in region B: 1=Yes; 0=No         27         0.15         0         1         0.33         1         0.03         3         1.40         9         5.33         5         100         3         <							
Eq_Campers							
Eq_Campers A Eq_Campers A Eq_Campers A Purchased in region A: 1=Ves; 0=No         27         0         0         2,62,64         4         0							
Eq_Campers_A Eq_Campers_B Eq_Campers_C Eq_Campers_C Eq_Campers_C Eq_Campers_D Eq_Campers_D Eq_Campers_D Eq_Campers_D Eq_Campers_D Eq_Campers_D Eq_Campers_D Purchased in region D: 1=Ves; 0=No         27         0.07         0         1         0.27           Eq_Campers_D Eq_Campers_D Eq_Campers_F Eq_Campers_F Eq_Campers_D Eq_Campers_D Eq_Campers_D Eq_Campers_D Eq_Campers_D Eq_Campers_D Eq_Campers_D Eq_Campers_D Eq_Campers_D Eq_Campers_D Eq_Campers_D Eq_Campers_D Eq_Campers_D Eq_Campers_D Eq_Campers_D Eq_Campers_D Eq_Campers_D Eq_Campers_D Hurchased in region D: 1=Ves; 0=No         27         0.04         0         1         0.36           Eq_Campers_D Eq_Campers_D Eq_Campers_D Eq_Campers_D Eq_Campers_D Eq_Campers_D Eq_Campers_D Eq_Campers_D Eq_Campers_D Eq_Campers_D Eq_Campers_D Eq_Campers_D Eq_Campers_D Purchased in region D: 1=Ves; 0=No         27         0.04         0 </td <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>							
Eq_Campers_B         Purchased in region B: 1=Yes; 0=No         27         0.07         0         1         0.27           Eq_Campers_C         Purchased in region D: 1=Yes; 0=No         27         0.04         0         1         0.19           Eq_Campers_D         Purchased in region D: 1=Yes; 0=No         27         0.04         0         1         0.19           Eq_Campers_E         Purchased in region D: 1=Yes; 0=No         27         0.05         0         0         0           Eq_Campers_F         Purchased in region E: 1=Yes; 0=No         27         0.0         0							-
Eq_Campers_C         Purchased in region C: 1=Yes; 0=No         27         0.52         0         1         0.51           Eq_Campers_D         Purchased in region E: 1=Yes; 0=No         27         0.04         0         1         0.19           Eq_Campers_E         Purchased in region E: 1=Yes; 0=No         27         0.15         0         0         0           Eq_Campers_F         Purchased in region E: 1=Yes; 0=No         27         0         0         0         0           Eq_Campers_C         Purchased in region F: 1=Yes; 0=No         27         0         0         0         0           Eq_Other_Camp_A         Wused for sportfishing         9         53.33         5         100         36.14           Eq_Other_Camp_A         Purchased in region A: 1=Yes; 0=No         50         0.12         0         1         0.33           Eq_Other_Camp_A         Purchased in region B: 1=Yes; 0=No         50         0.08         0         1         0.27           Eq_Other_Camp_D         Purchased in region D: 1=Yes; 0=No         50         0.02         0         1         0.14           Eq_Other_Camp_D         Purchased in region D: 1=Yes; 0=No         50         0.02         0         1         0.14           Eq				-			
Eq_Campers_D         Purchased in region D: 1=Yes; 0=No         27         0.04         0         1         0.19           Eq_Campers_F         Purchased in region E: 1=Yes; 0=No         27         0.15         0         1         0.36           Eq_Campers_F         Purchased in region F: 1=Yes; 0=No         27         0         0         0         0           Eq_Cother_Camp_A         Wused for sportfishing         9         53.33         5         100         36.14           Eq_Other_Camp_A         Purchased in region A: 1=Yes; 0=No         50         0.02         0         1         0.33           Eq_Other_Camp_B         Purchased in region B: 1=Yes; 0=No         50         0.08         0         1         0.50           Eq_Other_Camp_B         Purchased in region D: 1=Yes; 0=No         50         0.58         0         1         0.50           Eq_Other_Camp_E         Purchased in region E: 1=Yes; 0=No         50         0.02         0         1         0.14           Eq_Vehicles_Camp_F         Purchased in region E: 1=Yes; 0=No         50         0.14         0         1         0.35           Eq_Vehicles_A         Purchased in region A: 1=Yes; 0=No         50         0.04         0         0         0         0							
Eq_Campers_E         Purchased in region E: 1=Yes; 0=No         27         0.15         0         1         0.36           Eq_Campers_F         Purchased in region E: 1=Yes; 0=No         27         0							
Eq_Campers_F         Purchased in region F: 1=Yes; 0=No         27         0         0         0         0           Eq_CampersPct         % used for sportfishing         9         53.33         5         100         36.14           Eq_Other_Camp_A         Total Amount Spent on Other Camping Equipment         353         20.89         0         1,400         95.40           Eq_Other_Camp_A         Purchased in region A: 1=Yes; 0=No         50         0.12         0         1         0.33           Eq_Other_Camp_B         Purchased in region B: 1=Yes; 0=No         50         0.08         0         1         0.27           Eq_Other_Camp_D         Purchased in region D: 1=Yes; 0=No         50         0.58         0         1         0.50           Eq_Other_Camp_E         Purchased in region D: 1=Yes; 0=No         50         0.02         0         1         0.14           Eq_Other_Camp_F         Purchased in region E: 1=Yes; 0=No         50         0.14         0         1         0.35           Eq_Vehicles_A         Purchased in region E: 1=Yes; 0=No         50         0         0         0         0         0         0         35         3.1322.28         0         61,000         66,603.80         1         0.25         0							
Eq_CampersPct         % used for sportifshing         9         53.33         5         100         36.14           Eq_Other_Camp_A         Purchased in region A: 1=Yes; 0=No         50         0.12         0         1,400         95.40           Eq_Other_Camp_B         Purchased in region B: 1=Yes; 0=No         50         0.02         0         1         0.33           Eq_Other_Camp_B         Purchased in region B: 1=Yes; 0=No         50         0.08         0         1         0.27           Eq_Other_Camp_C         Purchased in region C: 1=Yes; 0=No         50         0.58         0         1         0.50           Eq_Other_Camp_E         Purchased in region D: 1=Yes; 0=No         50         0.02         0         1         0.14           Eq_Other_Camp_F         Purchased in region E: 1=Yes; 0=No         50         0.0         0         0         0           Eq_Vehicles_A         Purchased in region N: 1=Yes; 0=No         35         1,322.28         0         61,000         6,603.80           Eq_Vehicles_B         Purchased in region D: 1=Yes; 0=No         35         0.11         0         1         0.28           Eq_Vehicles_C         Purchased in region D: 1=Yes; 0=No         35         0.11         0         1         0.25 </td <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>							
Eq_Other_Camp         Total Amount Spent on Other Camping Equipment         353         20.89         0         1,400         95.40           Eq_Other_Camp_A         Purchased in region A: 1=Yes; 0=No         50         0.12         0         1         0.33           Eq_Other_Camp_B         Purchased in region B: 1=Yes; 0=No         50         0.08         0         1         0.27           Eq_Other_Camp_C         Purchased in region D: 1=Yes; 0=No         50         0.58         0         1         0.50           Eq_Other_Camp_B         Purchased in region D: 1=Yes; 0=No         50         0.02         0         1         0.14           Eq_Other_Camp_E         Purchased in region E: 1=Yes; 0=No         50         0.02         0         0         0           Eq_Other_CampPE         Purchased in region F: 1=Yes; 0=No         50         0         0         0         0         0           Eq_Other_CampE         Purchased in region D: 1=Yes; 0=No         35         0.11         0         1         0.35           Eq_Othicles         Purchased in region D: 1=Yes; 0=No         35         0.11         0         1         0.32           Eq_Vehicles_D         Purchased in region D: 1=Yes; 0=No         35         0.09         0         1 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>_</td>							_
Eq_Other_Camp_A         Purchased in region A: 1=Yes; 0=No         50         0.12         0         1         0.33           Eq_Other_Camp_B         Purchased in region B: 1=Yes; 0=No         50         0.08         0         1         0.27           Eq_Other_Camp_C         Purchased in region C: 1=Yes; 0=No         50         0.02         0         1         0.50           Eq_Other_Camp_E         Purchased in region E: 1=Yes; 0=No         50         0.02         0         1         0.14           Eq_Other_Camp_E         Purchased in region F: 1=Yes; 0=No         50         0.14         0         1         0.35           Eq_Other_CampPct         Purchased in region F: 1=Yes; 0=No         50         0							
Eq_Other_Camp_B         Purchased in region B: 1=Yes; 0=No         50         0.08         0         1         0.27           Eq_Other_Camp_C         Purchased in region C: 1=Yes; 0=No         50         0.58         0         1         0.50           Eq_Other_Camp_D         Purchased in region D: 1=Yes; 0=No         50         0.02         0         1         0.14           Eq_Other_Camp_E         Purchased in region E: 1=Yes; 0=No         50         0.04         0         1         0.35           Eq_Other_Camp_E         Purchased in region E: 1=Yes; 0=No         50         0							
Eq_Other_Camp_C         Purchased in region C: 1=Yes; 0=No         50         0.58         0         1         0.50           Eq_Other_Camp_D         Purchased in region D: 1=Yes; 0=No         50         0.02         0         1         0.14           Eq_Other_Camp_E         Purchased in region F: 1=Yes; 0=No         50         0.14         0         1         0.35           Eq_Other_CampPct         Purchased in region F: 1=Yes; 0=No         50         0							
Eq_Other_Camp_D         Purchased in region D: 1=Yes; 0=No         50         0.02         0         1         0.14           Eq_Other_Camp_E         Purchased in region E: 1=Yes; 0=No         50         0.14         0         1         0.35           Eq_Other_Camp_F         Purchased in region F: 1=Yes; 0=No         50         0         0         0         0           Eq_Other_CampPct         We used for sportfishing         24         63.33         5         100         35.53           Eq_Vehicles         Total Amount Spent on Vehicles         353         1,322.28         0         61,000         6,603.80         62,000         6,603.80         62,000         0							
Eq_Other_Camp_E         Purchased in region E: 1=Yes; 0=No         50         0.14         0         1         0.35           Eq_Other_Camp_F         Purchased in region F: 1=Yes; 0=No         50         0         0         0         0           Eq_Other_CampPct         % used for sportfishing         24         63.33         5         100         35.53           Eq_Vehicles         Total Amount Spent on Vehicles         353         1,322.28         0         61,000         6,603.80           Eq_Vehicles_A         Purchased in region A: 1=Yes; 0=No         35         0.11         0         1         0.32           Eq_Vehicles_B         Purchased in region B: 1=Yes; 0=No         35         0.09         0         1         0.28           Eq_Vehicles_C         Purchased in region D: 1=Yes; 0=No         35         0.09         0         1         0.51           Eq_Vehicles_E         Purchased in region D: 1=Yes; 0=No         35         0.09         0         1         0.28           Eq_Vehicles_F         Purchased in region E: 1=Yes; 0=No         35         0.09         0         1         0.28           Eq_Vehicles_F         Purchased in region E: 1=Yes; 0=No         35         0.09         0         0         0      <							
Eq_Other_Camp_F         Purchased in region F: 1=Yes; 0=No         50         0         0         0           Eq_Other_CampPct         % used for sportfishing         24         63.33         5         100         35.53           Eq_Vehicles         Total Amount Spent on Vehicles         353         1,322.28         0         61,000         6,603.80           Eq_Vehicles_A         Purchased in region B: 1=Yes; 0=No         35         0.11         0         1         0.32           Eq_Vehicles_B         Purchased in region B: 1=Yes; 0=No         35         0.09         0         1         0.28           Eq_Vehicles_C         Purchased in region D: 1=Yes; 0=No         35         0.09         0         1         0.51           Eq_Vehicles_D         Purchased in region D: 1=Yes; 0=No         35         0.03         0         1         0.17           Eq_Vehicles_E         Purchased in region F: 1=Yes; 0=No         35         0.09         0         1         0.28           Eq_Vehicles_F         Purchased in region F: 1=Yes; 0=No         35         0.09         0         1         0.28           Eq_Vehicles_F         Purchased in region F: 1=Yes; 0=No         35         0         0         0         0         0         0							
Eq_Other_CampPct         % used for sportfishing         24         63.33         5         100         35.53           Eq_Vehicles         Total Amount Spent on Vehicles         353         1,322.28         0         61,000         6,603.80           Eq_Vehicles_A         Purchased in region A: 1=Yes; 0=No         35         0.11         0         1         0.32           Eq_Vehicles_B         Purchased in region B: 1=Yes; 0=No         35         0.09         0         1         0.28           Eq_Vehicles_C         Purchased in region C: 1=Yes; 0=No         35         0.49         0         1         0.51           Eq_Vehicles_D         Purchased in region D: 1=Yes; 0=No         35         0.09         0         1         0.51           Eq_Vehicles_E         Purchased in region E: 1=Yes; 0=No         35         0.09         0         1         0.28           Eq_Vehicles_F         Purchased in region F: 1=Yes; 0=No         35         0.09         0         1         0.28           Eq_Vehicles_F         Purchased in region F: 1=Yes; 0=No         35         0.09         0         0         0         0         0         0         0         0         0         0         0         0         0         0							
Eq_Vehicles         Total Amount Spent on Vehicles         353         1,322.28         0         61,000         6,603.80           Eq_Vehicles_A         Purchased in region A: 1=Yes; 0=No         35         0.11         0         1         0.32           Eq_Vehicles_B         Purchased in region B: 1=Yes; 0=No         35         0.09         0         1         0.28           Eq_Vehicles_C         Purchased in region C: 1=Yes; 0=No         35         0.49         0         1         0.51           Eq_Vehicles_D         Purchased in region D: 1=Yes; 0=No         35         0.03         0         1         0.17           Eq_Vehicles_E         Purchased in region E: 1=Yes; 0=No         35         0.09         0         1         0.28           Eq_Vehicles_F         Purchased in region F: 1=Yes; 0=No         35         0.09         0         1         0.28           Eq_Vehicles_F         Purchased in region F: 1=Yes; 0=No         35         0.09         0							
Eq_Vehicles_A         Purchased in region A: 1=Yes; 0=No         35         0.11         0         1         0.32           Eq_Vehicles_B         Purchased in region B: 1=Yes; 0=No         35         0.09         0         1         0.28           Eq_Vehicles_C         Purchased in region C: 1=Yes; 0=No         35         0.49         0         1         0.51           Eq_Vehicles_D         Purchased in region D: 1=Yes; 0=No         35         0.03         0         1         0.17           Eq_Vehicles_E         Purchased in region E: 1=Yes; 0=No         35         0.09         0         1         0.28           Eq_Vehicles_F         Purchased in region F: 1=Yes; 0=No         35         0.09         0         1         0.25							
Eq_Vehicles_B         Purchased in region B: 1=Yes; 0=No         35         0.09         0         1         0.28           Eq_Vehicles_C         Purchased in region C: 1=Yes; 0=No         35         0.49         0         1         0.51           Eq_Vehicles_D         Purchased in region D: 1=Yes; 0=No         35         0.03         0         1         0.17           Eq_Vehicles_E         Purchased in region E: 1=Yes; 0=No         35         0.09         0         1         0.28           Eq_Vehicles_F         Purchased in region F: 1=Yes; 0=No         35         0.09         0         1         0.28           Eq_Vehicles_F         Purchased in region F: 1=Yes; 0=No         35         0.09         0         1         0.25         1         0.25         1         0.25         0         0         0         0         0         0         0	· ·						
Eq_Vehicles_C         Purchased in region C: 1=Yes; 0=No         35         0.49         0         1         0.51           Eq_Vehicles_D         Purchased in region D: 1=Yes; 0=No         35         0.03         0         1         0.17           Eq_Vehicles_E         Purchased in region E: 1=Yes; 0=No         35         0.09         0         1         0.28           Eq_Vehicles_F         Purchased in region F: 1=Yes; 0=No         35         0         0         0         0           Eq_Vehicles_Pct         % used for sportfishing         12         63.75         5         100         41.35           Eq_Planes         Total Amount Spent on Airplanes and Related Equipment         353         522.33         0         125,000         7,162.76           Eq_Planes_A         Purchased in region A: 1=Yes; 0=No         16         0.06         0         1         0.25           Eq_Planes_B         Purchased in region B: 1=Yes; 0=No         16         0.38         0         1         0.50           Eq_Planes_D         Purchased in region D: 1=Yes; 0=No         16         0.06         0         1         0.25           Eq_Planes_E         Purchased in region F: 1=Yes; 0=No         16         0.06         0         1         0.25     <							
Eq_Vehicles_D         Purchased in region D: 1=Yes; 0=No         35         0.03         0         1         0.17           Eq_Vehicles_E         Purchased in region E: 1=Yes; 0=No         35         0.09         0         1         0.28           Eq_Vehicles_F         Purchased in region F: 1=Yes; 0=No         35         0         0         0         0           Eq_VehiclesPct         % used for sportfishing         12         63.75         5         100         41.35           Eq_Planes         Total Amount Spent on Airplanes and Related Equipment         353         522.33         0         125,000         7,162.76           Eq_Planes_A         Purchased in region A: 1=Yes; 0=No         16         0.06         0         1         0.25           Eq_Planes_B         Purchased in region B: 1=Yes; 0=No         16         0.38         0         1         0.50           Eq_Planes_D         Purchased in region D: 1=Yes; 0=No         16         0.06         0         1         0.25           Eq_Planes_E         Purchased in region E: 1=Yes; 0=No         16         0.06         0         1         0.25           Eq_Planes_F         Purchased in region F: 1=Yes; 0=No         16         0.06         0         1         0.25 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>							
Eq_Vehicles_E         Purchased in region E: 1=Yes; 0=No         35         0.09         0         1         0.28           Eq_Vehicles_F         Purchased in region F: 1=Yes; 0=No         35         0         0         0         0           Eq_VehiclesPct         % used for sportfishing         12         63.75         5         100         41.35           Eq_Planes         Total Amount Spent on Airplanes and Related Equipment         353         522.33         0         125,000         7,162.76           Eq_Planes_A         Purchased in region A: 1=Yes; 0=No         16         0.06         0         1         0.25           Eq_Planes_B         Purchased in region B: 1=Yes; 0=No         16         0.38         0         1         0.50           Eq_Planes_D         Purchased in region D: 1=Yes; 0=No         16         0.38         0         1         0.50           Eq_Planes_E         Purchased in region E: 1=Yes; 0=No         16         0.06         0         1         0.25           Eq_Planes_F         Purchased in region F: 1=Yes; 0=No         16         0.06         0         1         0.25           Eq_Planes_F         Purchased in region F: 1=Yes; 0=No         16         0.06         0         1         0.25		ů .					
Eq_Vehicles_F         Purchased in region F: 1=Yes; 0=No         35         0         0         0         0           Eq_VehiclesPct         % used for sportfishing         12         63.75         5         100         41.35           Eq_Planes         Total Amount Spent on Airplanes and Related Equipment         353         522.33         0         125,000         7,162.76           Eq_Planes_A         Purchased in region A: 1=Yes; 0=No         16         0.06         0         1         0.25           Eq_Planes_B         Purchased in region B: 1=Yes; 0=No         16         0         0         0         0           Eq_Planes_C         Purchased in region D: 1=Yes; 0=No         16         0.38         0         1         0.50           Eq_Planes_B         Purchased in region D: 1=Yes; 0=No         16         0.06         0         0         0           Eq_Planes_E         Purchased in region E: 1=Yes; 0=No         16         0.06         0         1         0.25           Eq_Planes_F         Purchased in region F: 1=Yes; 0=No         16         0.06         0         1         0.25           Eq_PlanesPct         % used for sportfishing         5         72.00         10         100         40.87							
Eq_VehiclesPct       % used for sportfishing       12       63.75       5       100       41.35         Eq_Planes       Total Amount Spent on Airplanes and Related Equipment       353       522.33       0       125,000       7,162.76         Eq_Planes_A       Purchased in region A: 1=Yes; 0=No       16       0.06       0       1       0.25         Eq_Planes_B       Purchased in region B: 1=Yes; 0=No       16       0       0       0       0         Eq_Planes_C       Purchased in region C: 1=Yes; 0=No       16       0.38       0       1       0.50         Eq_Planes_D       Purchased in region D: 1=Yes; 0=No       16       0.06       0       0       0         Eq_Planes_E       Purchased in region E: 1=Yes; 0=No       16       0.06       0       1       0.25         Eq_Planes_F       Purchased in region F: 1=Yes; 0=No       16       0.06       0       1       0.25         Eq_PlanesPct       % used for sportfishing       5       72.00       10       100       40.87         Eq_ATV       Total Amount Spent on ATVs, and Snowmobiles       353       681.97       0       20,000       2,390.92         Eq_ATV_A       Purchased in region A: 1=Yes; 0=No       45       0.04					-		
Eq_Planes         Total Amount Spent on Airplanes and Related Equipment         353         522.33         0         125,000         7,162.76           Eq_Planes_A         Purchased in region A: 1=Yes; 0=No         16         0.06         0         1         0.25           Eq_Planes_B         Purchased in region B: 1=Yes; 0=No         16         0         0         0         0           Eq_Planes_C         Purchased in region C: 1=Yes; 0=No         16         0.38         0         1         0.50           Eq_Planes_D         Purchased in region D: 1=Yes; 0=No         16         0         0         0         0         0           Eq_Planes_E         Purchased in region E: 1=Yes; 0=No         16         0.06         0         1         0.25           Eq_Planes_F         Purchased in region F: 1=Yes; 0=No         16         0.06         0         1         0.25           Eq_PlanesPct         % used for sportfishing         5         72.00         10         100         40.87           Eq_ATV         Total Amount Spent on ATVs, and Snowmobiles         353         681.97         0         20,000         2,390.92           Eq_ATV_A         Purchased in region A: 1=Yes; 0=No         45         0.04         0         1							
Eq_Planes_A       Purchased in region A: 1=Yes; 0=No       16       0.06       0       1       0.25         Eq_Planes_B       Purchased in region B: 1=Yes; 0=No       16       0       0       0       0         Eq_Planes_C       Purchased in region C: 1=Yes; 0=No       16       0.38       0       1       0.50         Eq_Planes_D       Purchased in region D: 1=Yes; 0=No       16       0.06       0       0       0         Eq_Planes_E       Purchased in region E: 1=Yes; 0=No       16       0.06       0       1       0.25         Eq_Planes_F       Purchased in region F: 1=Yes; 0=No       16       0.06       0       1       0.25         Eq_PlanesPct       % used for sportfishing       5       72.00       10       100       40.87         Eq_ATV       Total Amount Spent on ATVs, and Snowmobiles       353       681.97       0       20,000       2,390.92         Eq_ATV_A       Purchased in region A: 1=Yes; 0=No       45       0.04       0       1       0.21							
Eq_Planes_B         Purchased in region B: 1=Yes; 0=No         16         0         0         0         0           Eq_Planes_C         Purchased in region C: 1=Yes; 0=No         16         0.38         0         1         0.50           Eq_Planes_D         Purchased in region D: 1=Yes; 0=No         16         0         0         0         0           Eq_Planes_E         Purchased in region E: 1=Yes; 0=No         16         0.06         0         1         0.25           Eq_Planes_F         Purchased in region F: 1=Yes; 0=No         16         0.06         0         1         0.25           Eq_PlanesPct         % used for sportfishing         5         72.00         10         100         40.87           Eq_ATV         Total Amount Spent on ATVs, and Snowmobiles         353         681.97         0         20,000         2,390.92           Eq_ATV_A         Purchased in region A: 1=Yes; 0=No         45         0.04         0         1         0.21							
Eq_Planes_C       Purchased in region C: 1=Yes; 0=No       16       0.38       0       1       0.50         Eq_Planes_D       Purchased in region D: 1=Yes; 0=No       16       0       0       0       0         Eq_Planes_E       Purchased in region E: 1=Yes; 0=No       16       0.06       0       1       0.25         Eq_Planes_F       Purchased in region F: 1=Yes; 0=No       16       0.06       0       1       0.25         Eq_PlanesPct       % used for sportfishing       5       72.00       10       100       40.87         Eq_ATV       Total Amount Spent on ATVs, and Snowmobiles       353       681.97       0       20,000       2,390.92         Eq_ATV_A       Purchased in region A: 1=Yes; 0=No       45       0.04       0       1       0.21							_
Eq_Planes_D         Purchased in region D: 1=Yes; 0=No         16         0         0         0         0           Eq_Planes_E         Purchased in region E: 1=Yes; 0=No         16         0.06         0         1         0.25           Eq_Planes_F         Purchased in region F: 1=Yes; 0=No         16         0.06         0         1         0.25           Eq_PlanesPct         % used for sportfishing         5         72.00         10         100         40.87           Eq_ATV         Total Amount Spent on ATVs, and Snowmobiles         353         681.97         0         20,000         2,390.92           Eq_ATV_A         Purchased in region A: 1=Yes; 0=No         45         0.04         0         1         0.21				-			-
Eq_Planes_E         Purchased in region E: 1=Yes; 0=No         16         0.06         0         1         0.25           Eq_Planes_F         Purchased in region F: 1=Yes; 0=No         16         0.06         0         1         0.25           Eq_PlanesPct         % used for sportfishing         5         72.00         10         100         40.87           Eq_ATV         Total Amount Spent on ATVs, and Snowmobiles         353         681.97         0         20,000         2,390.92           Eq_ATV_A         Purchased in region A: 1=Yes; 0=No         45         0.04         0         1         0.21				_			_
Eq_Planes_F         Purchased in region F: 1=Yes; 0=No         16         0.06         0         1         0.25           Eq_PlanesPct         % used for sportfishing         5         72.00         10         100         40.87           Eq_ATV         Total Amount Spent on ATVs, and Snowmobiles         353         681.97         0         20,000         2,390.92           Eq_ATV_A         Purchased in region A: 1=Yes; 0=No         45         0.04         0         1         0.21				-			_
Eq_PlanesPct         % used for sportfishing         5         72.00         10         100         40.87           Eq_ATV         Total Amount Spent on ATVs, and Snowmobiles         353         681.97         0         20,000         2,390.92           Eq_ATV_A         Purchased in region A: 1=Yes; 0=No         45         0.04         0         1         0.21							
Eq_ATV         Total Amount Spent on ATVs, and Snowmobiles         353         681.97         0         20,000         2,390.92           Eq_ATV_A         Purchased in region A: 1=Yes; 0=No         45         0.04         0         1         0.21							
Eq_ATV_A         Purchased in region A: 1=Yes; 0=No         45         0.04         0         1         0.21							
	Eq_ATV_B	Purchased in region B: 1=Yes; 0=No	45	0.04	0	1	0.21

**NOTE: Summary statistics of raw survey data.** The mean values reported here do not necessarily represent average spending by all Alaska anglers; the standard deviations do to not apply to final spending estimates. This table includes raw survey data that underwent numerous transformations to produce the final study estimates.

Appendix G1.-Page 12 of 13

Variable	Label	N	Mean	Min	Max	Std Dev
Eq_ATV_C	Purchased in region C: 1=Yes; 0=No	45	0.40	0	1	0.50
Eq_ATV_D	Purchased in region D: 1=Yes; 0=No	45	0.04	0	1	0.21
Eq_ATV_E	Purchased in region E: 1=Yes; 0=No	45	0.20	0	1	0.40
Eq_ATV_F	Purchased in region F: 1=Yes; 0=No	45	0.09	0	1	0.29
Eq_ATVPct	% used for sportfishing	23	32.17	0	100	34.77
Eq_Registration	Total Amount Spent on Boat/Camper Registration	353	43.05	0	6,750	371.05
Eq_Registration_A	Purchased in region A: 1=Yes; 0=No	71	0.25	0	1	0.44
Eq_Registration_B	Purchased in region B: 1=Yes; 0=No	71	0.03	0	1	0.17
Eq_Registration_C	Purchased in region C: 1=Yes; 0=No	71	0.48	0	1	0.50
Eq_Registration_D	Purchased in region D: 1=Yes; 0=No	71	0.03	0	1	0.17
Eq_Registration_E	Purchased in region E: 1=Yes; 0=No	71	0.11	0	1	0.32
Eq_Registration_F	Purchased in region F: 1=Yes; 0=No	71	0	0	0	0
Eq_RegistrationPct	% used for sportfishing	33	86.06	25	100	25.82
Eq_Repair	Total Amount Spent on Vehicle Repair/Maintenance	353	305.31	0	10,000	1,064.54
Eq_Repair_A	Purchased in region A: 1=Yes; 0=No	92	0.24	0	1	0.43
Eq_Repair_B	Purchased in region B: 1=Yes; 0=No	92	0.04	0	1	0.21
Eq_Repair_C	Purchased in region C: 1=Yes; 0=No	91	0.51	0	1	0.50
Eq_Repair_D	Purchased in region D: 1=Yes; 0=No	92	0.02	0	1	0.15
Eq_Repair_E	Purchased in region E: 1=Yes; 0=No	92	0.10	0	1	0.30
Eq_Repair_F	Purchased in region F: 1=Yes; 0=No	92	0.01	0	1	0.10
Eq_RepairPct	% used for sportfishing	46	71.63	0	100	36.16
Eq_respairs of	Total Amount Spent on Other, including non-fishing related	10	71.00		100	00.10
Eq_Other	purchases	379	0.30	0	75	4.36
Eq_Other_A	Purchased in region A: 1=Yes; 0=No	25	0.24	0	1	0.44
Eq_Other_B	Purchased in region B: 1=Yes; 0=No	25	0.12	0	1	0.33
Eq_Other_C	Purchased in region C: 1=Yes; 0=No	25	0.36	0	1	0.49
Eq_Other_D	Purchased in region D: 1=Yes; 0=No	25	0.30	0	0	0.47
Eq_Other_E	Purchased in region E: 1=Yes; 0=No	25	0.08	0	1	0.28
Eq_Other_F	Purchased in region F: 1=Yes; 0=No	25	0.00	0	0	0.20
Eq_OtherPct	% used for sportfishing	12	83.33	0	100	32.57
Own	Amount Spent on Real Estate Owned/Shared for Fishing	286	2,778.95	0	150,000	15,085.13
Own_A	Region A 1=Yes; 0=No	47	0.19	0	1	0.40
Own_B	Region B 1=Yes; 0=No	47	0.06	0	1	0.45
Own_C	Region C 1=Yes; 0=No	47	0.40	0	1	0.50
Own_D	Region D 1=Yes; 0=No	46	0.02	0	1	0.15
Own_E	Region E 1=Yes; 0=No	47	0.02	0	1	0.13
Own_F	Region F 1=Yes; 0=No	47	0.02	0	1	0.25
Lease	Amount Spent on Real Estate Leased/Rented for Fishing	286	35.10	0	2,000	202.53
Lease A	Region A 1=Yes; 0=No	28	0.25	0	2,000	0.44
Lease B	Region B 1=Yes; 0=No	28	0.23	0		0.44
Lease_C	Region C 1=Yes; 0=No	28	0.21	0	1	0.42
Lease_D	Region D 1=Yes; 0=No	28	0.21	0	Ö	0.42
Lease_E	Region E 1=Yes; 0=No	28	0.07	0	1	0.26
Lease_F	Region F 1=Yes; 0=No	28	0.07	0	0	0.20
Maintain	Amount Spent on Repairs/Maintenance for Real Estate	286	156.49	0	17,000	1,123.90
Maint_A	Region A 1=Yes; 0=No	34	0.26	0	17,000	0.45
Maint_B	Region B 1=Yes; 0=No	34	0.20	0	0	0.43
	Region C 1=Yes; 0=No	34	_	0		-
Maint_C Maint_D	Region D 1=Yes; 0=No	34	0.32 0.03	0	1 1	0.47 0.17
	Region E 1=Yes; 0=No	34	0.03			0.17
Maint_E Maint_E	Region F 1=Yes; 0=No	34	0.06	0	1	0.24
Maint_F	Amount Spent on Construction of Buildings, Cabins, Etc	286	559.18	0	75,000	
Cabin A				-		5,026.44
Cabin_A	Region A 1=Yes; 0=No	24	0.17	0	1	0.38
Cabin_B	Region B 1=Yes; 0=No	24	0	0	0	0 40
Cabin_C	Region C 1=Yes; 0=No	24	0.38	0	1	0.49

Appendix G1.-Page 13 of 13

Variable	Label	N	Mean	Min	Max	Std Dev
Cabin_D	Region D 1=Yes; 0=No	24	0	0	0	0
Cabin_E	Region E 1=Yes; 0=No	24	0.04	0	1	0.20
Cabin_F	Region F 1=Yes; 0=No	24	0	0	0	0
Sex	1=Male; 2=Female	373	1.19	1	2	0.39
B_year	Year of Birth	372	1,962.66	1,934	1,991	11.35
Educ	1=Did not Graduate H.S.; 2=H.S. Graduate or GED; 3=1-3 Years					
Euuc	of College; 4=College Graduate; 5=Postgraduate, Masters,Ph.D	367	3.26	1	5	1.05
	1=Less Than 9,999; 2=10k-19,999; 3=20k-29,999; 4=30k-39,999;					
HH Income	5=40k-49,999; 6=50k-59,999; 7=60k-69,999; 8=70k-79,999;					
TITI_ITICOTTIE	9=80k-89,999; 10=90k-99,999; 11=100k-249,999; 12=250k or					
	More	359	7.65	1	12	3.13
Satis	1=Very Dissatisfied; 2=Generally Dissatisfied; 3=Neutral;					
Salis	4=Generally Satisfied; 5=Very Satisfied	0				

Appendix G2- Summary statistics for survey response variables: Wave 2 resident respondents.

Variable	Label	N	Mean	Min	Max	StdDev
NovDec_salt	Number of days fishing in Saltwater, November Thru December, 2006	769	1.77	0	60	7.34
1404200_3aik	Number of days fishing in Freshwater, November Thru December,	707	,,	ŭ	00	7.01
NovDec_fresh	2006	769	3.01	0	60	8.66
JanApr_salt	Number of days fishing in Saltwater, January Thru April, 2007	0				
Jan_Apr_fresh	Number of days fishing in Freshwater, January Thru April, 2007	0				
	Number of days fishing in Freshwater, May 1st Thru June 30th,	700	0.00	0	40	0.10
MayJun_frsh_A	2007; Region A	733	0.29	0	40	2.10
MayJun_frsh_B	Number of days fishing in Freshwater, May 1st Thru June 30th, 2007; Region B	733	0.29	0	20	1.62
waysun_nsn_b	Number of days fishing in Freshwater, May 1st Thru June 30th,	733	0.27	U	20	1.02
MayJun_frsh_C	2007; Region C	733	2.67	0	45	6.19
	Number of days fishing in Freshwater, May 1st Thru June 30th,			-		
MayJun_frsh_D	2007; Region D	733	0.20	0	30	1.67
	Number of days fishing in Freshwater, May 1st Thru June 30th,					
MayJun_frsh_E	2007; Region E	733	0.93	0	40	3.86
Marriage fresh	Number of days fishing in Freshwater, May 1st Thru June 30th,	700	0.04	0	10	0.51
MayJun_frsh_F	2007; Region F Number of days fishing in Saltwater, May 1st Thru June 30th,	733	0.04	0	10	0.51
MayJun_salt_A	2007; Region A	733	1.09	0	60	4.71
waysun_san_A	Number of days fishing in Saltwater, May 1st Thru June 30th,	733	1.07	U	00	4.71
MayJun_salt_B	2007; Region B	733	0.66	0	20	2.54
.,	Number of days fishing in Saltwater, May 1st Thru June 30th,			-		
MayJun_salt_C	2007; Region C	733	0.77	0	20	2.25
	Number of days fishing in Saltwater, May 1st Thru June 30th,					
MayJun_salt_D	2007;Region D	733	0.13	0	19	1.20
Movilum colt F	Number of days fishing in Saltwater, May 1st Thru June 30th,	722	0	0	0	0
MayJun_salt_F	2007; Region F Number of days fishing in Freshwater, July 1st Thru October 31st,	733	0	0	0	0
JulOct_frsh_A	2007; Region A	733	0.38	0	25	2.17
Suicot_iisii_/t	Number of days fishing in Freshwater, July 1st Thru October 31st,	700	0.00	ŭ	20	2.17
JulOct_frsh_B	2007; Region B	733	0.42	0	32	2.36
	Number of days fishing in Freshwater, July 1st Thru October 31st,					
JulOct_frsh_C	2007; Region C	733	4.09	0	120	11.23
110 1 ( 1 5	Number of days fishing in Freshwater, July 1st Thru October 31st,	700	0.00	0	0.4	1.00
JulOct_frsh_D	2007; Region D	733	0.30	0	24	1.99
JulOct_frsh_E	Number of days fishing in Freshwater, July 1st Thru October 31st, 2007; Region E	733	1.15	0	60	4.60
Juloci_II3II_E	Number of days fishing in Freshwater, July 1st Thru October 31st,	755	1.13	O	00	4.00
JulOct_frsh_F	2007; Region F	733	0.11	0	20	1.03
	Number of days fishing in Saltwater, July 1st Thru October 31st,					
JulOct_salt_A	2007; Region A	733	1.56	0	90	7.37
	Number of days fishing in Saltwater, July 1st Thru October 31st,					= 00
JulOct_salt_B	2007; Region B	733	1.44	0	90	5.32
JulOct colt C	Number of days fishing in Saltwater, July 1st Thru October 31st, 2007; Region C	733	0.00	0	30	2 44
JulOct_salt_C	Number of days fishing in Saltwater, July 1st Thru October 31st,	133	0.89	U	30	2.66
JulOct_salt_D	2007; Region D	733	0.15	0	20	1.17
	Number of days fishing in Saltwater, July 1st Thru October 31st,		55	Ĭ		
JulOct_salt_F	2007; Region F	733	0.01	0	5	0.20
LastMo_MayJun	1=May; 2=June; 3=Did not fish between May 1st and June 30st	691	2.20	1	3	0.54
tripdays_1	Total days involved in last trip to Alaska	523	2.98	0	60	5.13
fichdove 1	Number of days actually fished in Alaska between May 1st and	E27	2 52	0	ΛE	E 0.2
fishdays_1 commit_1	June 30th 1=Yes; 0=No	527 523	3.53 0.32	0 0	45 1	5.83 0.47
COMMITTEE I	1-163, 0-110	JZJ	0.32	U	ı	0.47

**NOTE: Summary statistics of raw survey data.** The mean values reported here do not necessarily represent average spending by all Alaska anglers; the standard deviations do to not apply to final spending estimates. This table includes raw survey data that underwent numerous transformations to produce the final study estimates.

Appendix G2.–Page 2 of 13

Variable	Label	N	Mean	Min	Max	StdDev
fish_type_1	1=Rod&Reel 2=Shellfish Fishing	514	1.11	1	3	0.41
water_type_1	1=In Freshwater; 2=In Saltwater; 3=In Both	516	1.50	1	3	0.62
charter_1	1=Yes; 0=No	525	0.09	0	1	0.29
trip1_A	Did you fish in Region A 1=Yes; 0=No	540	0.16	0	1	0.37
trip1_B	Did you fish in Region B 1=Yes; 0=No	540	0.13	0	1	0.34
trip1_C	Did you fish in Region C 1=Yes; 0=No	540	0.51	0	1	0.50
trip1_D	Did you fish in Region D 1=Yes; 0=No	540	0.04	0	1	0.20
trip1_E	Did you fish in Region E 1=Yes; 0=No	540	0.13	0	1	0.34
trip1_F	Did you fish in Region F 1=Yes; 0=No	540	0.01	0	1	0.11
King_1	King Salmon 1=Yes; 0=No	539	0.48	0	1	0.50
Silver_1	Silver Salmon 1=Yes; 0=No	539	0.13	0	1	0.33
Red_1	Red Salmon 1=Yes; 0=No	540	0.22	0	1	0.41
OtherSalm 1	Other Salmon 1=Yes; 0=No	539	0.05	0	1	0.21
OtherFresh_1	Other Freshwater 1=Yes; 0=No	539	0.14	0	1	0.35
Steel_1	Steelhead 1=Yes; 0=No	539	0.01	0	1	0.07
Trout_1	Trout 1=Yes; 0=No	539	0.18	0	1	0.38
Halibut 1	Halibut 1=Yes; 0=No	539	0.27	0	1	0.44
Shell_1	Shellfish 1=Yes; 0=No	539	0.08	0	1	0.27
PtherSalt 1	Other Saltwater 1=Yes: 0=No	539	0.06	0	1	0.24
pkg_1	Total Cost of pre-arranged cruise, package tour, or charter trip	0				
pkg_1_A	Visited 1=Yes; 0=No	0				
pkg_1_B	Visited 1=Yes; 0=No	0				
pkg_1_C	Visited 1=Yes; 0=No	0				
pkg_1_D	Visited 1=Yes; 0=No	0				
pkg_1_E	Visited 1=Yes; 0=No	ő	•	•		•
pkg_1_F	Visited 1=Yes; 0=No	0	·	·		•
pkg_1_air	Transportation to/from Alaska 1=Yes; 0=No	0				· ·
pkg_1_trans	Transportation in Alaska 1=Yes; 0=No	0				
pkg_1_guide	Guides &/or charter boat 1=Yes; 0=No	0				· ·
pkg_1_lodge	Lodging 1=Yes; 0=No	0				·
pkg_1_food	Meals 1=Yes; 0=No	0				· ·
pkg_1_lic	Fishing License 1=Yes; 0=No	0				
Lic_1	Total Amount Spent on License and Stamp	525	30.78	0	200	27.87
Lic_1_A	1=Yes; 0=No	411	0.15	0	1	0.35
Lic_1_B	1=Yes; 0=No	411	0.08	0	1	0.28
Lic_1_C	1=Yes; 0=No	411	0.55	0	1	0.50
Lic_1_D	1=Yes; 0=No	411	0.03	0	1	0.16
Lic_1_E	1=Yes; 0=No	411	0.14	0	1	0.34
Lic_1_F	1=Yes; 0=No	411	0.01	0	1	0.10
Lic_1_out	Purchased Outside Alaska 1=Yes; 0=No	0				
Fuel_1	Total Amount Spent on Fuel	525	136.55	0	3,500	271.00
Fuel_1_A	1=Yes; 0=No	461	0.14	0	1	0.35
Fuel_1_B	1=Yes; 0=No	461	0.10	0	1	0.31
Fuel_1_C	1=Yes; 0=No	460	0.57	0	1	0.50
Fuel_1_D	1=Yes; 0=No	461	0.03	0	1	0.16
Fuel_1_E	1=Yes; 0=No	460	0.16	0	1	0.37
Fuel_1_F	1=Yes; 0=No	460	0.01	0	1	0.09
Fuel out 1	Purchased Outside Alaska 1=Yes; 0=No	0				
Guide_1	Total Amount Spent on Guide	525	34.14	0	2,000	148.18
Guide_1_A	1=Yes; 0=No	77	0.03	0	1	0.16
Guide_1_N Guide_1_B	1=Yes; 0=No	77	0.19	0	1	0.40
Guide_1_C	1=Yes; 0=No	77	0.47	0	1	0.50
Guide_1_D	1=Yes; 0=No	77	0.47	0	1	0.11
Guide_1_E	1=Yes; 0=No	77	0.03	0	1	0.16
Guide_1_E Guide_1_F	1=Yes; 0=No	77	0.03	0	0	0.10
Caldo_1_I	1 100, 0 110	11	U	U	U	J

**NOTE: Summary statistics of raw survey data.** The mean values reported here do not necessarily represent average spending by all Alaska anglers; the standard deviations do to not apply to final spending estimates. This table includes raw survey data that underwent numerous transformations to produce the final study estimates.

Appendix G2.–Page 3 of 13

Variable	Label	N	Mean	Min	Max	StdDev
Guide_out_1	Purchased Outside Alaska 1=Yes; 0=No	0				
Air_1	Total Amount Spent on Airfare	525	8.74	0	2,300	107.56
Air_1_A	Region A 1=Yes; 0=No	32	0.06	0	1	0.25
Air_1_B	Region B 1=Yes; 0=No	32	0	0	0	0
Air_1_C	Region C 1=Yes; 0=No	32	0.19	0	1	0.40
Air_1_D	Region D 1=Yes; 0=No	32	0.03	0	1	0.18
Air_1_E	Region E 1=Yes; 0=No	32	0	0	0	0
Air_1_F	Region F 1=Yes; 0=No	32	0.03	0	1	0.18
Air_out_1	Purchased Outside Alaska 1=Yes; 0=No	0				
Travel_1	Total Amount Spent on Commercial Travel Within Alaska	526	6.98	0	2,000	94.85
Travel_1_A	1=Yes; 0=No	38	0.05	0	1	0.23
Travel_1_B	1=Yes; 0=No	38	0.13	0	1	0.34
Travel_1_C	1=Yes; 0=No	38	0.18	0	1	0.39
Travel_1_D	1=Yes; 0=No	38	0	0	0	0
Travel_1_E	1=Yes; 0=No	38	0	0	0	0
Travel_1_F	1=Yes; 0=No	38	0.03	0	1	0.16
Travel_out_1	Purchased Outside Alaska 1=Yes; 0=No	0				
Process_1	Total Amount Spent on Fish Processing	525	10.66	0	300	38.03
Process_1_A	1=Yes; 0=No	83	0.14	0	1	0.35
Process_1_B	1=Yes; 0=No	83	0.08	0	1	0.28
Process_1_C	1=Yes; 0=No	83	0.48	0	1	0.50
Process_1_D	1=Yes; 0=No	83	0.01	0	1	0.11
Process_1_E	1=Yes; 0=No	83	0.04	0	1	0.19
Process_1_F	1=Yes; 0=No	83	0	0	0	0
Process_out_1	Purchased Outside Alaska 1=Yes; 0=No	0	2.45			
Rentals_1	Total Amount Spent on Rentals (boats, auto, etc)	525	2.65	0	400	27.10
Rentals_1_A	1=Yes; 0=No	30	0.03	0	1	0.18
Rentals_1_B	1=Yes; 0=No	30	0.07	0	1 1	0.25 0.35
Rentals_1_C	1=Yes; 0=No 1=Yes; 0=No	30 30	0.13 0	0 0	0	0.35
Rentals_1_D Rentals_1_E	1=Yes; 0=No	30	0.07	0	1	0.25
Rentals_1_F	1=Yes; 0=No	30	0.07	0	0	0.25
Rentals_out_1	Purchased Outside Alaska 1=Yes; 0=No	0	U	U	U	U
Derby_1	Total Amount Spent on Derby Tickets	525	3.40	0	100	11.80
Derby_1_A	1=Yes; 0=No	79	0.23	0	100	0.42
Derby_1_A Derby_1_B	1=Yes; 0=No	79	0.23	0	1	0.42
Derby_1_B Derby_1_C	1=Yes; 0=No	79	0.14	0	1	0.48
Derby_1_D	1=Yes; 0=No	79	0.03	0	1	0.46
Derby_1_E	1=Yes; 0=No	79	0.00	0	0	0.10
Derby_1_F	1=Yes; 0=No	79	0	0	0	0
Derby_out_1	Purchased Outside Alaska 1=Yes; 0=No	0	Ŭ	o	J	ŭ
Dock_1	Total Amount Spent on Dockage	524	23.57	0	1,800	117.48
Dock_1_A	1=Yes; 0=No	165	0.16	0	1	0.37
Dock_1_B	1=Yes; 0=No	165	0.17	0	1	0.38
Dock_1_C	1=Yes; 0=No	165	0.50	0	1	0.50
Dock_1_D	1=Yes; 0=No	165	0.02	0	1	0.13
Dock_1_E	1=Yes; 0=No	165	0.05	0	1	0.22
Dock_1_F	1=Yes; 0=No	165	0	0	0	0
Dock_out_1	Purchased Outside Alaska 1=Yes; 0=No	0				
Ice_1	Total Amount Spent on Ice	525	5.98	0	150	12.74
Ice_1_A	1=Yes; 0=No	235	0.09	0	1	0.28
Ice_1_B	1=Yes; 0=No	235	0.13	0	1	0.33
Ice_1_C	1=Yes; 0=No	235	0.57	0	1	0.50
lce_1_D	1=Yes; 0=No	235	0.02	0	1	0.13
Ice_1_E	1=Yes; 0=No	235	0.13	0	1	0.33

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Appendix G2.–Page 4 of 13

Variable	Label	N	Mean	Min	Max	StdDev
Ice_1_F	1=Yes; 0=No	235	0.00	0	1	0.07
Ice_out_1	Purchased Outside Alaska 1=Yes; 0=No	0				
Bait_1	Total Amount Spent on Bait	525	9.97	0	250	26.16
Bait_1_A	1=Yes; 0=No	195	0.27	0	1	0.44
Bait_1_B	1=Yes; 0=No	195	0.17	0	1	0.38
Bait_1_C	1=Yes; 0=No	195	0.42	0	1	0.49
Bait_1_D	1=Yes; 0=No	195	0.02	0	1	0.14
Bait_1_E	1=Yes; 0=No	195	0.06	0	1	0.23
Bait_1_F	1=Yes; 0=No	195	0	0	0	0
Bait_out_1	Purchased Outside Alaska 1=Yes; 0=No	0				
Groceries_1	Total Amount Spent on Groceries, Food, and Liquor	525	88.98	0	2,000	159.52
Groceries_1_A	1=Yes; 0=No	416	0.13	0	1	0.34
Groceries_1_B	1=Yes; 0=No	416	0.11	0	1	0.31
Groceries_1_C	1=Yes; 0=No	416	0.56	0	1	0.50
Groceries_1_D	1=Yes; 0=No	416	0.03	0	1	0.17
Groceries_1_E	1=Yes; 0=No	416	0.15	0	1	0.36
Groceries_1_F	1=Yes; 0=No	416	0.01	0	1	0.10
Groceries_out_1	Purchased Outside Alaska 1=Yes; 0=No	0			.	
Meals_1	Total Amount Spent on Restaurants, bars, and Take-Out	525	30.25	0	1,000	73.97
Meals_1_A	1=Yes; 0=No	214	0.04	0	1	0.19
Meals_1_B	1=Yes; 0=No	214	0.16	0	1	0.37
Meals_1_C	1=Yes; 0=No	214	0.57	0	1	0.50
Meals_1_D	1=Yes; 0=No	214	0.01	0	1	0.12
Meals_1_E	1=Yes; 0=No	214	0.14	0	1	0.34
Meals_1_F	1=Yes; 0=No	214	0.00	0	1	0.07
Meals_out_1	Purchased Outside Alaska 1=Yes; 0=No	0	0.00	o		0.07
Lodging_1	Total Amount Spent on Lodging	526	29.30	0	1,568	114.17
Lodging_1_A	1=Yes; 0=No	143	0.02	0	1	0.14
Lodging_1_B	1=Yes; 0=No	143	0.15	0	1	0.36
Lodging_1_C	1=Yes; 0=No	143	0.61	0	1	0.49
Lodging_1_D	1=Yes; 0=No	143	0.01	0	1	0.12
Lodging_1_E	1=Yes; 0=No	143	0.10	0	1	0.31
Lodging_1_F	1=Yes; 0=No	143	0.10	0	0	0.01
Lodge_out_1	Purchased Outside Alaska 1=Yes; 0=No	0	· ·	O	O	o l
Gifts_1	Total Amount Spent on Souvenirs and Gifts	525	8.95	0	1,500	73.57
Gifts_1_A	1=Yes; 0=No	61	0.02	0	1	0.13
Gifts_1_B	1=Yes; 0=No	61	0.15	0	1	0.36
Gifts_1_C	1=Yes; 0=No	61	0.44	0	1	0.50
Gifts_1_D	1=Yes; 0=No	61	0.03	0	1	0.18
Gifts_1_E	1=Yes; 0=No	61	0.05	0	1	0.22
Gifts_1_F	1=Yes; 0=No	61	0	0	0	0
Gifts_out_1	Purchased Outside Alaska 1=Yes; 0=No	0				
Amusement_1	Total Amount Spent on Other Entertainment	525	10.94	0	1,500	75.95
Amusement_1_A	1=Yes; 0=No	77	0.06	0	1	0.25
Amusement_1_B	1=Yes; 0=No	77	0.10	0	1	0.31
Amusement_1_C	1=Yes; 0=No	77	0.40	0	1	0.49
Amusement_1_D	1=Yes; 0=No	78	0.01	0	1	0.17
Amusement_1_E	1=Yes; 0=No	77	0.14	0	1	0.35
Amusement_1_F	1=Yes; 0=No	77	0.01	0	1	0.11
Amusement_out_1	Purchased Outside Alaska 1=Yes; 0=No	0	0.01	0	'	0.11
Other_1	Total Amount Spent on Other	525	0.38	0	200	8.73
Other_1_A	1=Yes; 0=No	57	0.04	0	1	0.73
Other_1_B	1=Yes; 0=No	57	0.04	0	1	0.17
Other_1_C	1=Yes; 0=No	57	0.40	0	1	0.49
Other_1_D	1=Yes; 0=No	57	0.40	0	1	0.47
OHIOL_1_D	1-103,0-110	JI	0.03	U	1	0.23

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Appendix G2.–Page 5 of 13

Variable	Label	N	Mean	Min	Max	StdDev
Other_1_E	1=Yes; 0=No	57	0.07	0	1	0.26
Other_1_F	1=Yes; 0=No	57	0	0	0	0
Other_out_1	Purchased Outside Alaska 1=Yes; 0=No	0				
LastMo_JulOct	1=July; 2=August; 3=September; 4=October; 5=Did not fish	644	2.53	1	5	1.26
tripdays_2	Total number of days in last trip to Alaska	644	3.57	0	90	6.57
	Number of days fishing in Alaska between July 1st and Oct. 31st,					
fishdays_2	2007	643	3.83	0	95	7.99
commit_2	1=Yes; 0=No	644	0.34	0	1	0.47
fish_type_2	1=Rod&Reel 2=Shellfishing	641	1.16	1	3	0.43
water_type_2	1=In Freshwater; 2=In Saltwater; 3=In Both	644	1.59	1	3	0.64
charter_2	1=Yes; 0=No	647	0.11	0	1	0.31
trip2_A	Region A; 1=Yes; 0=No	647	0.11	0	1	0.36
trip2_B	Region B; 1=Yes; 0=No	648	0.10	0	1	0.42
trip2_C	Region C; 1=Yes; 0=No	648	0.23	0	1	0.42
					1	
trip2_D	Region D; 1=Yes; 0=No	647	0.05	0		0.21
trip2_E	Region E; 1=Yes; 0=No	647	0.11	0	1	0.31
trip2_F	Region F; 1=Yes; 0=No	647	0.02	0	1	0.13
King_2	King Salmon 1=Yes; 0=No	645	0.18	0	1	0.38
Silver_2	Silver Salmon 1=Yes; 0=No	645	0.47	0	1	0.50
Red_2	Red Salmon 1=Yes; 0=No	645	0.24	0	1	0.43
OtherSalm_2	Other Salmon 1=Yes; 0=No	646	0.07	0	1	0.26
OtherFresh_2	Other Freshwater 1=Yes; 0=No	646	0.14	0	1	0.35
Steel_2	Steelhead 1=Yes; 0=No	645	0.02	0	1	0.14
Trout_2	Trout 1=Yes; 0=No	645	0.18	0	1	0.39
Halibut_2	Halibut 1=Yes; 0=No	645	0.24	0	1	0.43
Shell_2	Shellfish 1=Yes; 0=No	646	0.06	0	1	0.23
PtherSalt_2	Other Saltwater 1=Yes; 0=No	646	0.08	0	1	0.27
pkg_2	Total Cost of Pre-arranged cruise, package tour, or charter trip	0				
pkg_2_A	Visited 1=Yes; 0=No	0				
pkg_2_B	Visited 1=Yes; 0=No	0				
pkg_2_C	Visited 1=Yes; 0=No	0				
pkg_2_D	Visited 1=Yes; 0=No	0				
pkg_2_E	Visited 1=Yes; 0=No	0				
pkg_2_F	Visited 1=Yes; 0=No	0				
pkg_2_air	Transportation to/from Alaska 1=Yes; 0=No	0				
pkg_2_trans	Transportation in Alaska 1=Yes; 0=No	0				
pkg_2_guide	Guides &/or charter boat 1=Yes; 0=No	0				
pkg_2_lodge	Lodging 1=Yes; 0=No	0				
pkg_2_food	Meals 1=Yes; 0=No	0		•	·	·
pkg_2_lic	Fishing License 1=Yes; 0=No	0			•	·
Lic_2	Total Amount Spent on License and Stamp	647	15.09	0	650	34.24
Lic_2_A	1=Yes; 0=No	251	0.13	0	1	0.33
Lic_2_R	1=Yes; 0=No	251	0.13	0	1	0.33
Lic_2_B	1=Yes; 0=No	251	0.12	0	1	0.50
Lic_2_D	1=Yes; 0=No	251	0.04	0	1	0.30
Lic_2_D Lic_2_E	1=Yes; 0=No	251	0.04	0	1	0.19
	1=Yes; 0=No	251	0.17	0	1	0.36
Lic_2_F			0.01	U	1	0.09
Lic_2_out	Purchased Outside Alaska 1=Yes; 0=No	0	151 50			
Fuel_2	Total Amount Spent on Fuel	647	151.58	0	8,000	400.62
Fuel_2_A	1=Yes; 0=No	522	0.14	0	1	0.35
Fuel_2_B	1=Yes; 0=No	522	0.20	0	1	0.40
Fuel_2_C	1=Yes; 0=No	522	0.54	0	1	0.50
Fuel_2_D	1=Yes; 0=No	522	0.03	0	1	0.17
Fuel_2_E	1=Yes; 0=No	522	0.16	0	1	0.37
Fuel_2_F	1=Yes; 0=No	522	0.01	0	1	0.12

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Appendix G2.-Page 6 of 13

Variable	Label	N	Mean	Min	Max	StdDev
Fuel_out_2	Purchased Outside Alaska 1=Yes; 0=No	0				
Guide_2	Total Amount Spent on Guide	647	58.41	0	5,000	312.93
Guide_2_A	1=Yes; 0=No	73	0.04	0	1	0.20
Guide_2_B	1=Yes; 0=No	73	0.36	0	1	0.48
Guide_2_C	1=Yes; 0=No	73	0.32	0	1	0.47
Guide_2_D	1=Yes; 0=No	73	0.05	0	1	0.23
Guide_2_E	1=Yes; 0=No	73	0.10	0	1	0.30
Guide_2_F	1=Yes; 0=No	73	0	0	0	0
Guide_out_2	Purchased Outside Alaska 1=Yes; 0=No	0	.			
Air_2	Total Amount Spent on Airfare	647	17.96	0	2,000	136.19
Air_2_A	1=Yes; 0=No	29	0.03	0	1	0.19
Air_2_B	1=Yes; 0=No	29	0.03	0	1	0.19
Air_2_C	1=Yes; 0=No	29	0.38	0	1	0.49
Air_2_D	1=Yes; 0=No	29	0.14	0	1	0.35
Air_2_E	1=Yes; 0=No	29	0.03	0	1	0.19
Air_2_F	1=Yes; 0=No	29	0.03	0	1	0.19
Air_out_2	Purchased Outside Alaska 1=Yes; 0=No	0	0.00	Ü		0.17
Travel_2	Total Amount Spent on Commercial Travel Within Alaska	646	13.98	0	4,300	194.12
Travel_2_A	1=Yes; 0=No	29	0.10	0	1,000	0.31
Travel_2_B	1=Yes; 0=No	29	0.24	0	1	0.44
Travel_2_C	1=Yes; 0=No	29	0.24	0	1	0.47
Travel_2_D	1=Yes; 0=No	29	0.51	0	0	0.47
Travel_2_E	1=Yes; 0=No	29	0.03	0	1	0.19
Travel_2_F	1=Yes; 0=No	29	0.03	0	0	0.17
Travel_out_2	Purchased Outside Alaska 1=Yes; 0=No	0	U	U	U	U
Process_2	Total Amount Spent on Fish Processing	647	16.00	0	1,000	72.19
Process_2_A	1=Yes; 0=No	91	0.11	0	1,000	0.31
Process_2_B	1=Yes; 0=No	91	0.11	0	1	0.46
Process_2_C	1=Yes; 0=No	91	0.31	0	1	0.40
Process_2_D	1=Yes; 0=No	91	0.44	0	1	0.30
Process_2_E	1=Yes; 0=No	91	0.01	0	1	0.10
Process_2_F	1=Yes; 0=No	91	0.03	0	0	0.10
Process_out_2	Purchased Outside Alaska 1=Yes; 0=No	0	U	U	U	U
Rentals_2	Total Amount Spent on Rentals (boats, auto, etc)	647	6.02	0	700	49.53
	1=Yes; 0=No	26	0.02	0		0.20
Rentals_2_A Rentals_2_B		26	0.04	0	1 1	0.20
Rentals_2_C	1=Yes; 0=No 1=Yes; 0=No	26	0.19	0	1	0.40
Rentals_2_C Rentals_2_D	1=Yes; 0=No	26	0.27	0	1	0.43
Rentals_2_E	1=Yes; 0=No	26	0.04		1	0.20
Rentals_2_F	1=Yes; 0=No	26	0.19	0 0	0	0.40
	Purchased Outside Alaska 1=Yes; 0=No	0	U	U	U	U
Rentals_out_2 Derby_2	Total Amount Spent on Derby Tickets	647	2.91	0	300	15.30
Derby_2_A	1=Yes; 0=No	63	0.16	0	300	0.37
	1=Yes; 0=No	63	0.10	0	1	0.50
Derby_2_B	1=Yes; 0=No	63	0.41	-	1	0.30
Derby_2_C			0.24	0		
Derby_2_D	1=Yes; 0=No 1=Yes; 0=No	63		0	1	0.18
Derby_2_E	1=Yes; 0=No 1=Yes; 0=No	63	0.02	0	1	0.13
Derby_2_F	Purchased Outside Alaska 1=Yes; 0=No	63	0	0	0	U
Derby_out_2		_	20.00		1 000	112 10
Dock_2	Total Amount Spent on Dockage	647	20.00	0	1,800	112.19
Dock_2_A	1=Yes; 0=No	151	0.13	0	1	0.33
Dock_2_B	1=Yes; 0=No	151	0.32	0	1	0.47
Dock_2_C	1=Yes; 0=No	151	0.45	0	1	0.50
Dock_2_D	1=Yes; 0=No	151	0.01	0	1	0.11
Dock_2_E	1=Yes; 0=No	151	0.03	0	1	0.16

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Appendix G2.–Page 7 of 13

Variable	Label	N	Mean	Min	Max	StdDev
Dock_2_F	1=Yes; 0=No	151	0	0	0	0
Dock_out_2	Purchased Outside Alaska 1=Yes; 0=No	0				
Ice_2	Total Amount Spent on Ice	647	7.69	0	200	15.73
Ice_2_A	1=Yes; 0=No	276	0.09	0	1	0.29
Ice_2_B	1=Yes; 0=No	276	0.26	0	1	0.44
Ice_2_C	1=Yes; 0=No	276	0.51	0	1	0.50
lce_2_D	1=Yes; 0=No	276	0.02	0	1	0.15
Ice_2_E	1=Yes; 0=No	276	0.13	0	1	0.33
Ice_2_F	1=Yes; 0=No	276	0	0	0	0
Ice_out_2	Purchased Outside Alaska 1=Yes; 0=No	0				
Bait_2	Total Amount Spent on Bait	648	10.39	0	500	32.42
Bait_2_A	1=Yes; 0=No	207	0.23	0	1	0.42
Bait_2_B	1=Yes; 0=No	207	0.30	0	1	0.46
Bait_2_C	1=Yes; 0=No	207	0.37	0	1	0.48
Bait_2_D	1=Yes; 0=No	207	0.01	0	1	0.10
Bait_2_E	1=Yes; 0=No	207	0.08	0	1	0.28
Bait_2_F	1=Yes; 0=No	207	0	0	0	0
Bait_out_2	Purchased Outside Alaska 1=Yes; 0=No	0				
Groceries_2	Total Amount Spent on Groceries, Food, and Liquor	647	95.37	0	2,500	218.04
Groceries_2_A	1=Yes; 0=No	463	0.13	0	1	0.33
Groceries_2_B	1=Yes; 0=No	463	0.20	0	1	0.40
Groceries_2_C	1=Yes; 0=No	463	0.53	0	1	0.50
Groceries_2_D	1=Yes; 0=No	463	0.03	0	1	0.17
Groceries_2_E	1=Yes; 0=No	463	0.14	0	1	0.35
Groceries_2_F	1=Yes; 0=No	463	0.00	0	1	0.07
Groceries_out_2	Purchased Outside Alaska 1=Yes; 0=No	0				
Meals_2	Total Amount Spent on Restaurants, bars, and Take-Out	647	38.68	0	2,000	108.65
Meals_2_A	1=Yes; 0=No	274	0.04	0	1	0.20
Meals_2_B	1=Yes; 0=No	274	0.30	0	1	0.46
Meals_2_C	1=Yes; 0=No	274	0.50	0	1	0.50
Meals_2_D	1=Yes; 0=No	274	0.03	0	1	0.18
Meals_2_E	1=Yes; 0=No	274	0.14	0	1	0.34
Meals_2_F	1=Yes; 0=No	274	0.00	0	1	0.06
Meals_out_2	Purchased Outside Alaska 1=Yes; 0=No	0				
Lodging_2	Total Amount Spent on Lodging	647	49.04	0	3,800	221.85
Lodging_2_A	1=Yes; 0=No	169	0.04	0	1	0.19
Lodging_2_B	1=Yes; 0=No	169	0.37	0	1	0.48
Lodging_2_C	1=Yes; 0=No	169	0.45	0	1	0.50
Lodging_2_D	1=Yes; 0=No	169	0.03	0	1	0.17
Lodging_2_E	1=Yes; 0=No	169	0.08	0	1	0.27
Lodging_2_F	1=Yes; 0=No	169	0.01	0	1	0.08
Lodge_out_2	Purchased Outside Alaska 1=Yes; 0=No	0	. 0.45		1 500	/ E 7 E
Gifts_2	Total Amount Spent on Souvenirs and Gifts	647	8.45	0	1,500	65.75
Gifts_2_A	1=Yes; 0=No	59	0.03	0	1	0.18
Gifts_2_B	1=Yes; 0=No	59	0.32	0	1	0.47
Gifts_2_C	1=Yes; 0=No	59	0.37	0	1	0.49
Gifts_2_D	1=Yes; 0=No	59	0.05	0	1	0.22
Gifts_2_E	1=Yes; 0=No	59 50	0.07	0	1	0.25
Gifts_2_F	1=Yes; 0=No Purchased Outside Alaska 1=Yes; 0=No	59	0	0	0	0
Gifts_out_2		0	12.04		400	40.70
Amusement_2	Total Amount Spent on Other Entertainment	647	12.86	0	600	60.70
Amusement_2_A	1=Yes; 0=No	80	0.09	0	1	0.28
Amusement_2_B	1=Yes; 0=No	80	0.24	0	1	0.43
Amusement_2_C	1=Yes; 0=No	80	0.36	0	1	0.48
Amusement_2_D	1=Yes; 0=No	80	0.03	0	1	0.16

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Appendix G2.-Page 8 of 13

Variable	Label	N	Mean	Min	Max	StdDev
Amusement_2_E	1=Yes; 0=No	80	0.16	0	1	0.37
Amusement_2_F	1=Yes; 0=No	80	0.01	0	1	0.11
Amusement_out_2	Purchased Outside Alaska 1=Yes; 0=No	0				
Other_2	Total Amount Spent on Other	647	0.23	0	50	2.95
Other_2_A	1=Yes; 0=No	46	0.07	0	1	0.25
Other_2_B	1=Yes; 0=No	46	0.17	0	1	0.38
Other_2_C	1=Yes; 0=No	46	0.48	0	1	0.51
Other_2_D	1=Yes; 0=No	45	0	0	0	0
Other_2_E	1=Yes; 0=No	46	0.11	0	1	0.31
Other_2_F	1=Yes; 0=No	46	0	0	0	0
Other_out_2	Purchased Outside Alaska 1=Yes; 0=No	0				
Eq_Lic	Total Amount Spent on License and Stamps	704	40.35	0	1,000	47.42
Eq_Lic_A	1=Yes: 0=No	608	0.15	0	1	0.36
Eq_Lic_B	1=Yes; 0=No	608	0.09	0	1	0.28
Eq_Lic_C	1=Yes; 0=No	608	0.56	0	1	0.50
Eq_Lic_D	1=Yes; 0=No	608	0.04	0	1	0.20
Eq_Lic_E	1=Yes; 0=No	608	0.15	0	1	0.36
Eq_Lic_F	1=Yes; 0=No	608	0.01	0	1	0.10
Eq_RodReel	Total Amount Spent on Rods, Reels, and Components	704	107.89	0	6,000	311.42
Eq_Rods_A	1=Yes; 0=No	342	0.15	0	0,000	0.35
Eq_Rods_B	1=Yes; 0=No	342	0.13	0	1	0.33
Eq_Rods_C	1=Yes; 0=No	342	0.62	0	1	0.49
Eq_Rods_D	1=Yes; 0=No	342	0.02	0	1	0.49
Eq_Rods_E	1=Yes; 0=No	342	0.04	0	1	0.10
Eq_Rods_F	1=Yes; 0=No	342	0.13	0	1	0.34
Eq_Tackle	· ·	704	69.58	0	2,358	135.96
Eq_Tackle_A	Total Amount Spent on Fishing Tackle 1=Yes: 0=No	485	09.56	0	2,336	0.36
Eq_Tackle_B	1=Yes; 0=No	485	0.10	0	1	0.33
Eq_Tackle_C	1=Yes; 0=No	485	0.13	0	1	0.33
Eq_Tackle_C Eq_Tackle_D	1=Yes; 0=No	485	0.04	0	1	0.49
	1=Yes; 0=No	485	0.04	0	1	0.20
Eq_Tackle_E		485			1	0.30
Eq_Tackle_F	1=Yes; 0=No	704	0.01 10.07	0	300	29.50
Eq_Tacklebox	Total Amount Spent on Tackle Boxes			0		
Eq_Tacklebox_A	1=Yes; 0=No	148	0.10	0	1	0.30
Eq_Tacklebox_B	1=Yes; 0=No	148 148	0.11	0	1 1	0.32
Eq_Tacklebox_C	1=Yes; 0=No		0.63	0	-	0.48
Eq_Tacklebox_D	1=Yes; 0=No	148	0.02	0	1	0.14 0.36
Eq_Tacklebox_E	1=Yes; 0=No	149	0.15	0	1	
Eq_Tacklebox_F Eq_Electronics	1=Yes; 0=No	148	0.01	0	1 5,000	0.08 300.55
	Total Amount Spent on Fish/Depth Finder	703	44.59	0		
Eq_Elec_A	1=Yes; 0=No	54	0.17	0	1	0.38
Eq_Elec_B	1=Yes; 0=No	54	0.13	0	1	0.34
Eq_Elec_C	1=Yes; 0=No	54	0.57	0	1	0.50
Eq_Elec_D	1=Yes; 0=No	54	0.06	0	1	0.23
Eq_Elec_E	1=Yes; 0=No	54	0.09	0	1	0.29
Eq_Elec_F	1=Yes; 0=No	54	0	0	0	0
Eq_Nets	Total Amount Spent on Dip/Gill Nets	503	28.90	0	500	61.23
Eq_Nets_A	1=Yes; 0=No	186	0.08	0	] ]	0.27
Eq_Nets_B	1=Yes; 0=No	186	0.09	0	1	0.29
Eq_Nets_C	1=Yes; 0=No	186	0.55	0	1	0.50
Eq_Nets_D	1=Yes; 0=No	186	0.02	0	1	0.13
Eq_Nets_E	1=Yes; 0=No	186	0.09	0	1	0.28
Eq_Nets_F	1=Yes; 0=No	186	0.01	0	1	0.07
Eq_Misc	Total Amount Spent on Miscellaneous Fishing Equipment	706	28.50	0	1,000	75.80
Eq_Misc_A	1=Yes; 0=No	273	0.15	0	1	0.36

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Appendix G2.–Page 9 of 13

Variable	Label	N	Mean	Min	Max	StdDev
Eq_Misc_B	1=Yes; 0=No	273	0.13	0	1	0.33
Eq_Misc_C	1=Yes; 0=No	273	0.55	0	1	0.50
Eq_Misc_D	1=Yes; 0=No	273	0.03	0	1	0.17
Eq_Misc_E	1=Yes; 0=No	273	0.15	0	1	0.36
Eq_Misc_F	1=Yes; 0=No	273	0	0	0	0
Eq_Shellfish	Total Amount Spent on	704	16.07	0	2,000	118.73
Eq_Shellfish_A	1=Yes; 0=No	69	0.20	0	1	0.41
Eq_Shellfish_B	1=Yes; 0=No	69	0.14	0	1	0.35
Eq_Shellfish_C	1=Yes; 0=No	69	0.62	0	1	0.49
Eq_Shellfish_D	1=Yes; 0=No	69	0.01	0	1	0.12
Eq_Shellfish_E	1=Yes; 0=No	69	0.06	0	1	0.24
Eq_Shellfish_F	1=Yes; 0=No	70	0	0	0	0
Eq_Taxidermy	Total Amount Spent on Taxidermy	704	5.85	0	1,500	72.45
Eq_Taxidermy_A	1=Yes; 0=No	9	0	0	0	0
Eq_Taxidermy_B	1=Yes; 0=No	9	0	0	0	0
Eq_Taxidermy_C	1=Yes; 0=No	9	0.67	0	1	0.50
Eq_Taxidermy_D	1=Yes; 0=No	9	0.07	0	0	0.00
Eq_Taxidermy_E	1=Yes; 0=No	9	0	0	0	0
Eq_Taxidermy_F	1=Yes; 0=No	9	0	0	0	0
Eq_Books	Total Amount Spent on	704	7.19	0	240	22.87
Eq_Books_A	1=Yes: 0=No	125	0.09	0	1	0.28
Eq_Books_B	1=Yes; 0=No	125	0.07	0	1	0.23
Eq_Books_C	1=Yes; 0=No	125	0.12	0	1	0.33
Eq_Books_D	1=Yes; 0=No	125	0.04	0	0	0.40
Eq_Books_E	1=Yes; 0=No	125	0.16	0	1	0.37
Eq_Books_F	1=Yes; 0=No	125	0.10	0	0	0.37
Eq_Books_r Eq_Preserve	Total Amount Spent on Preserving/Smoking	704	55.87	0	3,500	183.69
Eq_Preserve_A	1=Yes; 0=No	269	0.14	0	3,300	0.35
Eq_Preserve_B	1=Yes; 0=No	269	0.14	0	1	0.33
	1=Yes; 0=No	269	0.09	0	1	0.49
Eq_Preserve_C	, , , , , , , , , , , , , , , , , , ,	269	0.01	0	1	0.49
Eq_Preserve_D	1=Yes; 0=No	269			1	0.17
Eq_Preserve_E	1=Yes; 0=No	269	0.11 0.01	0	1	0.09
Eq_Preserve_F	1=Yes; 0=No			0		
Eq_PreservePct	% used for sportfishing	163	75.14	0	150	35.88
Eq_Coolers	Total Amount Spent on Coolers	704	24.47	0	1,000	62.36
Eq_Coolers_A	1=Yes; 0=No	222	0.09	0	1	0.29
Eq_Coolers_B	1=Yes; 0=No	222	0.12	0	1	0.33
Eq_Coolers_C	1=Yes; 0=No	222	0.64	0	1	0.48
Eq_Coolers_D	1=Yes; 0=No	222 222	0.02	0	1	0.15
Eq_Coolers_E	1=Yes; 0=No		0.11	0	1	0.31
Eq_Coolers_F	1=Yes; 0=No	222	74.70	0	100	0
Eq_CoolersPct	% used for sportfishing	128	74.70	0	100	36.03
Eq_Clothing	Total Amount Spent on Clothing	704	59.96	0	1,500	129.97
Eq_Clothing_A	1=Yes; 0=No	271	0.11	0	1	0.32
Eq_Clothing_B	1=Yes; 0=No	271	0.13	0	1	0.33
Eq_Clothing_C	1=Yes; 0=No	271	0.63	0	1	0.48
Eq_Clothing_D	1=Yes; 0=No	271	0.04	0	1	0.19
Eq_Clothing_E	1=Yes; 0=No	271	0.11	0	1	0.31
Eq_Clothing_F	1=Yes; 0=No	271	0.01	0	1	0.09
Eq_ClothingPct	% used for sportfishing	172	67.73	0	100	36.37
Eq_Boots	Total Amount Spent on Boots, and Shoes	704	43.33	0	1,150	90.70
Eq_Boots_A	1=Yes; 0=No	259	0.11	0	1	0.31
Eq_Boots_B	1=Yes; 0=No	259	0.11	0	1	0.31
Eq_Boots_C	1=Yes; 0=No	259	0.64	0	1	0.48
Eq_Boots_D	1=Yes; 0=No	259	0.03	0	1	0.17

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Appendix G2.-Page 10 of 13

Variable	Label	N	Mean	Min	Max	StdDev
Eq_Boots_E	1=Yes; 0=No	259	0.09	0	1	0.29
Eq_Boots_F	1=Yes; 0=No	259	0.01	0	1	0.09
Eq_BootsPct	% used for sportfishing	164	71.41	0	100	37.44
Eq_LJackets	Total Amount Spent on Life Jackets, and Survival Suits	704	30.80	0	3,000	140.27
Eq_LJackets_A	1=Yes; 0=No	126	0.19	0	1	0.39
Eq_LJackets_B	1=Yes; 0=No	126	0.12	0	1	0.33
Eq_LJackets_C	1=Yes; 0=No	126	0.53	0	1	0.50
Eq_LJackets_D	1=Yes; 0=No	126	0.06	0	1	0.23
Eq_LJackets_E	1=Yes; 0=No	126	0.10	0	1	0.31
Eq_LJackets_F	1=Yes; 0=No	126	0.01	0	1	0.09
Eq_LJacketsPct	% used for sportfishing	79	73.90	0	100	34.81
Eq_Boats	Total Amount Spent on Boats, Canoes, Watercraft, etc	703	727.80	0	60,000	4,098.25
Eq_Boats_A	1=Yes; 0=No	87	0.15	0	1	0.36
Eq_Boats_B	1=Yes; 0=No	87	0.11	0	1	0.32
Eq_Boats_C	1=Yes; 0=No	87	0.60	0	1	0.49
Eq_Boats_D	1=Yes; 0=No	87	0.02	0	1	0.15
Eq_Boats_E	1=Yes; 0=No	87	0.09	0	1	0.29
Eq_Boats_F	1=Yes; 0=No	87	0.01	0	1	0.11
Eq_BoatsPct	% used for sportfishing	47	68.63	0	100	37.44
Eq_Motors	Total Amount Spent on Boat Motors	703	183.79	0	20,000	1,144.80
Eq_Motors_A	1=Yes; 0=No	49	0.16	0	1	0.37
Eq_Motors_B	1=Yes; 0=No	49	0.16	0	1	0.37
Eq_Motors_C	1=Yes; 0=No	49	0.47	0	1	0.50
Eq_Motors_D	1=Yes; 0=No	49	0.04	0	1	0.20
Eq_Motors_E	1=Yes; 0=No	49	0.08	0	1	0.28
Eq_Motors_F	1=Yes; 0=No	49	0.02	0	1	0.14
Eq_MotorsPct	% used for sportfishing	30	71.95	0	100	36.25
Eq_Trailers	Total Amount Spent on Boat Trailers	704	41.95	0	5,000	243.25
Eq_Trailers_A	1=Yes; 0=No	111	0.15	0	1	0.36
Eq_Trailers_B	1=Yes; 0=No	111	0.14	0	1	0.35
Eq_Trailers_C	1=Yes; 0=No	111	0.51	0	1	0.50
Eq_Trailers_D	1=Yes; 0=No	111	0.02	0	1	0.13
Eq_Trailers_E	1=Yes; 0=No	111	0.18	0	1	0.39
Eq_Trailers_F	1=Yes; 0=No	111	0	0	0	0
Eq_TrailersPct	% used for sportfishing	68	65.67	0	100	35.76
Eq_OtherParts	Total Amount Spent on Other Boat Parts	704	101.03	0	10,000	509.02
Eq_OtherParts_A	1=Yes; 0=No	141	0.22	0	1	0.42
Eq_OtherParts_B	1=Yes; 0=No	141	0.13	0	1	0.34
Eq_OtherParts_C	1=Yes; 0=No	141	0.50	0	1	0.50
Eq_OtherParts_D	1=Yes; 0=No	141	0.04	0	1	0.20
Eq_OtherParts_E	1=Yes; 0=No	141	0.10	0	1	0.30
Eq_OtherParts_F	1=Yes; 0=No	141	0.01	0	1	0.08
Eq_OtherPartsPct	% used for sportfishing	85	76.37	0	100	36.13
Eq_BearSpray	Total Amount Spent on Bear Spray, Bug Spray, etc	704	12.82	0	300	26.62
Eq_BearSpray_A	1=Yes; 0=No	296	0.11	0	1	0.32
Eq_BearSpray_B	1=Yes; 0=No	296	0.11	0	1	0.32
Eq_BearSpray_C	1=Yes; 0=No	296	0.57	0	1	0.50
Eq_BearSpray_D	1=Yes; 0=No	296	0.04	0	1	0.21
Eq_BearSpray_E	1=Yes; 0=No	296	0.17	0	1	0.38
Eq_BearSpray_F	1=Yes; 0=No	296	0.00	0	1	0.06
Eq_BearSprayPct	% used for sportfishing	185	58.03	0	100	36.67
Eq_Firearms	Total Amount Spent on Firearms	704	54.34	0	2,085	209.07
Eq_Firearms_A	1=Yes; 0=No	78	0.13	0	1	0.34
Eq_Firearms_B	1=Yes; 0=No	78	0.13	0	1	0.34
Eq_Firearms_C	1=Yes; 0=No	78	0.63	0	1	0.49

**NOTE: Summary statistics of raw survey data.** The mean values reported here do not necessarily represent average spending by all Alaska anglers; the standard deviations do to not apply to final spending estimates. This table includes raw survey data that underwent numerous transformations to produce the final study estimates.

Appendix G2.–Page 11 of 13

FG_Firenams_F   1-yes; 0-No	Variable	Label	N	Mean	Min	Max	StdDev
FG_FicenamsPet   Sq. Leger for sportfishing   Fg_FicenamsPet   Sq. Leger for sportfishing   Fg_Ficenams   Fg_Fic	Eq_Firearms_D	1=Yes; 0=No	78	0.01	0	1	0.11
Eq. Cameras	Eq_Firearms_E	1=Yes; 0=No	78	0.13	0	1	0.34
Eq. Cameras A Ca, Cameras A Eq. Cameras Company Eq. Camer	Eq_Firearms_F	1=Yes; 0=No	78	0	0	0	0
Eq. Cameras. A         1=Ves: 0=No         224         0.12         0         1         0.33           Eq. Cameras. B         1=Ves: 0=No         224         0.63         0         1         0.48           Eq. Cameras. D         1=Ves: 0=No         224         0.04         0         1         0.48           Eq. Cameras. E         1=Ves: 0=No         224         0.04         0         1         0.03           Eq. Cameras. E         1=Ves: 0=No         224         0.04         0         1         0.03           Eq. Cameras. P         1=Ves: 0=No         224         0.00         0         1         0.03           Eq. Cameras. A         1=Ves: 0=No         224         0.00         0         1         0.03           Eq. Cameras. D         1=Ves: 0=No         153         0.01         0         1         0.03           Eq. Tents. B         1=Ves: 0=No         153         0.01         0         1         0.02           Eq. Tents. B         1=Ves: 0=No         153         0.05         0         1         0.04           Eq. Tents. B         1=Ves: 0=No         153         0.05         0         1         0.04           Eq. Tents. B <td>Eq_FirearmsPct</td> <td>% used for sportfishing</td> <td>49</td> <td>51.63</td> <td>0</td> <td>100</td> <td>36.65</td>	Eq_FirearmsPct	% used for sportfishing	49	51.63	0	100	36.65
Eq. Cameras, B Eq. Cameras, C Eq. C	Eq_Cameras		704	68.76	0	3,100	213.10
Eq. Cameras, C	Eq_Cameras_A	1=Yes; 0=No	224	0.12	0	1	0.33
Eq. Cameras, C.   a   ves. 0 = No   224   0.63   0   1   0.48   0.62   0.64   0.04   0.04   0.05	Eq_Cameras_B	1=Yes; 0=No	224	0.08	0	1	0.27
Eq. Cameras, D. Eq. Cameras, E. Eves; O=No.         133         0.01         0         1         0.03         0         1         0.04         1         0.03         0         1         0.04         1         0.04         1         0.04         1         0.04         1         0.04         1         0.04         1         0.04         1         0.04         1         0.04         1         0.04         1         0.04         1         0.04         1         0.04         1         0.04         1         0.04         0         0         0         0         0         0         <		1=Yes; 0=No	224	0.63	0	1	0.48
Eq. Cameras, Eq. Cameras, Eq. Cameras, F.         1-Yes' 0-No         224         0.00         0         1         0.03           Eq. Cameras, F.         1-Yes' 0-No         224         0.00         0         1         0.07           Eq. Tents, C.         Total Amount Spent on Tents, etc         704         43.34         0         1,000         123.91           Eq. Tents, B.         1-Yes' 0-No         153         0.07         0         1         0.05           Eq. Tents, B.         1-Yes' 0-No         153         0.00         0         1         0.06           Eq. Tents, D.         1-Yes' 0-No         153         0.05         0         1         0.48           Eq. Tents, D.         1-Yes' 0-No         153         0.03         0         1         0.48           Eq. Tents, F.         1-Yes' 0-No         153         0.01         0         1         0.08           Eq. Tents, F.         1-Yes' 0-No         153         0.01         0         1         0         0           Eq. Campers, B.         1-Yes' 0-No         33         0.01         0         0         0         0         0         0         0         0         0         0         0	•	1=Yes; 0=No	224		0	1	0.19
Eq. Cameras, F.         1-Yes; 0-No         224         0.00         0         1         0.07           Eq. Cameras, F.         % used for sportfishing         142         49.64         0         100         36.25           Eq. Tents         Total Amount Spent on Tents, etc         704         43.94         0         1,000         123.91           Eq. Tents, B         1-Yes; 0-No         153         0.07         0         1         0.31           Eq. Tents, B         1-Yes; 0-No         153         0.05         0         1         0.48           Eq. Tents, B         1-Yes; 0-No         153         0.05         0         1         0.48           Eq. Tents, B         1-Yes; 0-No         153         0.01         0         1         0.66           Eq. Tents, B         1-Yes; 0-No         153         0.01         0         1         0.66           Eq. Tents, B         1-Yes; 0-No         153         0.01         0         1         0.08           Eq. Tents, B         1-Yes; 0-No         33         0.01         0         1         0.08           Eq. Tents, B         1-Yes; 0-No         33         0.01         0         0         0		1=Yes; 0=No	224	0.14	0	1	0.35
Eq. CamerasPct         & used for sportfishing         142         49,44         0         100         36,25           Eq. Tents_A         1-Yes: 0-No         153         0.07         0         1         0.31           Eq. Tents_B         1-Yes: 0-No         153         0.07         0         1         0.31           Eq. Tents_B         1-Yes: 0-No         153         0.05         0         1         0.48           Eq. Tents_C         1-Yes: 0-No         153         0.05         0         1         0.48           Eq. Tents_D         1-Yes: 0-No         153         0.06         0         1         0.08           Eq. Tents_D         1-Yes: 0-No         153         0.01         0         1         0.08           Eq. Tents_D         1-Yes: 0-No         153         0.01         0         1         0.36           Eq. Campers         1-Yes: 0-No         153         0.01         0         1         0.08           Eq. Campers         1-Yes: 0-No         33         0.00         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0 <td< td=""><td></td><td>1=Yes; 0=No</td><td>224</td><td>0.00</td><td>0</td><td>1</td><td></td></td<>		1=Yes; 0=No	224	0.00	0	1	
Eq_Tents   Total Amount Spent on Tents, etc   704   43.94   0   1,000   123.91   Eq_Tents_B   1=Yes; 0=No   153   0.10   0   1   0.31   Eq_Tents_B   1=Yes; 0=No   153   0.07   0   1   0.26   Eq_Tents_C   1=Yes; 0=No   153   0.07   0   1   0.26   Eq_Tents_D   1=Yes; 0=No   153   0.06   0   1   0.48   Eq_Tents_D   1=Yes; 0=No   153   0.16   0   1   0.36   Eq_Tents_F   1=Yes; 0=No   153   0.16   0   1   0.36   Eq_Tents_F   1=Yes; 0=No   153   0.16   0   1   0.08   Eq_Campers A   1=Yes; 0=No   33   0.06   0   0   0   0   Eq_Campers A   1=Yes; 0=No   33   0.06   0   1   0.24   Eq_Campers_D   1=Yes; 0=No   33   0.06   0   1   0.24   Eq_Campers_D   1=Yes; 0=No   33   0.06   0   1   0.33   Eq_Campers_F   1=Yes; 0=No   33   0.02   0   0   0   Eq_Compers_F   1=Yes; 0=No   0   0   0   0   0   0   Eq_Compers_F   1=Yes; 0=No   0   0   0   0   0   0   Eq_Compers_F   1=Yes; 0=No   0   0   0   0   0   0   Eq_Compers_F   1=Yes; 0=No   0   0   0   0   0   0   Eq_Compers_F   1=Yes; 0=No   0   0   0   0   0   0   Eq_Compers_F   1=Yes; 0=No   0   0   0   0   0   0   Eq_Compers_F   1=Yes; 0=No   0   0		% used for sportfishing	142	49.64	0	100	36.25
Eq_Tents_A   1=Yes; 0=No	Eq Tents		704	43.94	0	1,000	
Eq_Tents_B         1=Yes; 0=No         153         0.07         0         1         0.26           Eq_Tents_C         1=Yes; 0=No         153         0.65         0         1         0.48           Eq_Tents_D         1=Yes; 0=No         153         0.03         0         1         0.16           Eq_Tents_F         1=Yes; 0=No         153         0.01         0         1         0.06           Eq_Tents_F         1=Yes; 0=No         153         0.01         0         1         0.06           Eq_Tents_F         1=Yes; 0=No         153         0.01         0         1         0.06           Eq_Tents_B         1=Yes; 0=No         153         0.01         0         1         0.08           Eq_Campers_B         1=Yes; 0=No         33         0.0         0 <td></td> <td></td> <td></td> <td></td> <td>0</td> <td></td> <td></td>					0		
Eq_Tents_C         1=Yes; 0=No         153         0.65         0         1         0.48           Eq_Tents_D         1=Yes; 0=No         153         0.03         0         1         0.16           Eq_Tents_F         1=Yes; 0=No         153         0.01         0         1         0.36           Eq_Tents_F         1=Yes; 0=No         153         0.01         0         1         0.36           Eq_Tents_F         1=Yes; 0=No         153         0.01         0         1         0.08           Eq_Tents_F         1=Yes; 0=No         133         0.01         0         0         0           Eq_Campers_A         1=Yes; 0=No         33         0.06         0         1         0.24           Eq_Campers_B         1=Yes; 0=No         33         0.06         0         1         0.44           Eq_Campers_B         1=Yes; 0=No         33         0.06         0         1         0.44           Eq_Campers_B         1=Yes; 0=No         33         0.02         0         1         0.44           Eq_Campers_B         1=Yes; 0=No         33         0.02         0         1         0.44           Eq_Campers_B         1=Yes; 0=No					0	1	
Eq_Tents_D         1=Yes; 0=No         153         0.03         0         1         0.16           Eq_Tents_F         1=Yes; 0=No         153         0.01         0         1         0.06           Eq_Tents_F         1=Yes; 0=No         153         0.01         0         1         0.08           Eq_Tents_Pct         % used for sportfishing         100         51.32         0         100         37.50           Eq_Campers_A         1=Yes; 0=No         33         0.06         0         0         0           Eq_Campers_B         1=Yes; 0=No         33         0.06         0         1         0.44           Eq_Campers_B         1=Yes; 0=No         33         0.06         0         1         0.44           Eq_Campers_B         1=Yes; 0=No         33         0.03         0         1         0.44           Eq_Campers_B         1=Yes; 0=No         33         0.03         0         1         0.44           Eq_Campers_P         1=Yes; 0=No         33         0.03         0         1         0.17           Eq_Campers_Pot         1=Yes; 0=No         33         0.02         0         0         0         0         0         0					0	1	
Eq_Tentls_E         1=Yes; 0=No         153         0.16         0         1         0.36           Eq_Tentls_Fe         1=Yes; 0=No         153         0.01         0         1         0.08           Eq_TentlsPct         % used for sportfishing         100         51.32         0         100         37.50           Eq_Campers_A         1=Yes; 0=No         33         0         0         0         0         0           Eq_Campers_B         1=Yes; 0=No         33         0.06         0         1         0.24           Eq_Campers_C         1=Yes; 0=No         33         0.06         0         1         0.44           Eq_Campers_B         1=Yes; 0=No         33         0.06         0         1         0.14           Eq_Campers_B         1=Yes; 0=No         33         0.03         0         1         0.17           Eq_Campers_B         1=Yes; 0=No         33         0.12         0         1         0.17           Eq_Campers_P         1=Yes; 0=No         33         0.12         0         1         0.33           Eq_Campers_P         1=Yes; 0=No         33         0.12         0         1         0.33           Eq_Campers_D		1=Yes: 0=No			0	1	
Eq_Tents_F         1=Yes; 0=No         153         0.01         0         1         0.08              Eq_TentsPert         Kused for sportlishing         100         51.32         0         100         37.50              Eq_Campers         Total Amount Spent on Camping Trailer         704         425.52         0         39,000         30.080.30           Eq_Campers_A         1=Yes; 0=No         33         0.06         0         1         0.24           Eq_Campers_C         1=Yes; 0=No         33         0.06         0         1         0.24           Eq_Campers_D         1=Yes; 0=No         33         0.06         0         1         0.04           Eq_Campers_D         1=Yes; 0=No         33         0.06         0         1         0.04           Eq_Campers_D         1=Yes; 0=No         33         0.07         0         1         0.04           Eq_Campers_E         1=Yes; 0=No         33         0.01         0						1	
Eq_TentsPct         % used for sportlishing         100         51.32         0         100         37.50           Eq_Campers         1 rest; 0 - No         33         0 <td< td=""><td></td><td></td><td></td><td></td><td>0</td><td>1</td><td></td></td<>					0	1	
Eq_Campers         Total Amount Spent on Camping Trailer         704         425.52         0         39,000         3,008.03           Eq_Campers_B         1=Ves; 0=No         33         0         0         0         0           Eq_Campers_B         1=Ves; 0=No         33         0.06         0         1         0.24           Eq_Campers_B         1=Ves; 0=No         33         0.06         0         1         0.44           Eq_Campers_B         1=Ves; 0=No         33         0.03         0         1         0.04           Eq_Campers_E         1=Ves; 0=No         33         0.03         0         1         0.03           Eq_Campers_F         1=Yes; 0=No         33         0.02         0         0         0           Eq_Campers_Pct         4=Yes; 0=No         33         0.02         0         0         0           Eq_Other_Camp_A         1=Yes; 0=No         130         0.12         0         1         0.33           Eq_Other_Camp_A         1=Yes; 0=No         130         0.10         0         1         0.30           Eq_Other_Camp_C         1=Yes; 0=No         130         0.02         0         1         0.49           Eq_Ot						100	
Eq. Campers, A Eq. Campers, B Eq. Campers, C I = Yes; 0=No         33         0         0         0         0         0         0         1         0.24         Eq. Campers, C I = Yes; 0=No         33         0.06         0         1         0.24         Eq. Campers, C I = Yes; 0=No         33         0.06         0         1         0.24         Eq. Campers, C I = Yes; 0=No         33         0.06         0         1         0.04         0 <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>							
Eq_Campers_B         1=Yes; 0=No         33         0.06         0         1         0.24           Eq_Campers_D         1=Yes; 0=No         33         0.076         0         1         0.44           Eq_Campers_D         1=Yes; 0=No         33         0.03         0         1         0.17           Eq_Campers_E         1=Yes; 0=No         33         0.02         0         0         0           Eq_Campers_D         1=Yes; 0=No         33         0.12         0         1         0.33           Eq_Campers_D         1=Yes; 0=No         33         0.0         0         0         0           Eq_Campers_D         1=Yes; 0=No         33         0.0         0         0         0           Eq_Cother_Camp_B         1=Yes; 0=No         130         0.12         0         1         0.33           Eq_Other_Camp_B         1=Yes; 0=No         130         0.12         0         1         0.49           Eq_Other_Camp_B         1=Yes; 0=No         130         0.02         0         1         0.49           Eq_Other_Camp_E         1=Yes; 0=No         130         0.02         0         1         0.40           Eq_Other_Camp_E         1=Y							
Eq_Campers_C         1=Yes; 0=No         33         0.76         0         1         0.44           Eq_Campers_E         1=Yes; 0=No         33         0.03         0         1         0.17           Eq_Campers_E         1=Yes; 0=No         33         0.12         0         1         0.33           Eq_Campers_F         1=Yes; 0=No         33         0.12         0         0         0           Eq_Cother_Camp_B         3         0.0         0         0         0         0           Eq_Other_Camp_A         1=Yes; 0=No         130         0.12         0         1         0.33           Eq_Other_Camp_A         1=Yes; 0=No         130         0.10         0         1         0.33           Eq_Other_Camp_B         1=Yes; 0=No         130         0.10         0         1         0.30           Eq_Other_Camp_D         1=Yes; 0=No         130         0.02         0         1         0.15           Eq_Other_Camp_E         1=Yes; 0=No         130         0.09         0         0         0           Eq_Other_Camp_E         1=Yes; 0=No         130         0.09         0         1         0.49           Eq_Other_Camp_E         1=Y							0.24
Eq_Campers_D         1=Yes; 0=No         33         0.03         0         1         0.17           Eq_Campers_F         1=Yes; 0=No         33         0.12         0         1         0.33           Eq_Campers_F         4-Yes; 0=No         33         0         0         0         0           Eq_Cother_Camp         % used for sportfishing         20         56.25         0         100         35.39           Eq_Other_Camp_A         1=Yes; 0=No         130         0.12         0         1         0.33           Eq_Other_Camp_B         1=Yes; 0=No         130         0.10         0         1         0.33           Eq_Other_Camp_B         1=Yes; 0=No         130         0.10         0         1         0.33           Eq_Other_Camp_B         1=Yes; 0=No         130         0.19         0         1         0.49           Eq_Other_Camp_E         1=Yes; 0=No         130         0.19         0         1         0.40           Eq_Other_Camp_E         1=Yes; 0=No         130         0.19         0         0         0         0         0         0         0         0         0         0         0         0         0         0							
Eq_Campers_E         1=Yes; 0=No         33         0.12         0         1         0.33           Eq_Campers_F         1=Yes; 0=No         33         0         0         0         0           Eq_CampersPct         % used for sportfishing         20         56.25         0         100         35.39           Eq_Other_Camp         Total Amount Spent on Other Camping Equipment         704         29.54         0         3,000         136.63           Eq_Other_Camp_A         1=Yes; 0=No         130         0.12         0         1         0.33           Eq_Other_Camp_B         1=Yes; 0=No         130         0.10         0         1         0.33           Eq_Other_Camp_B         1=Yes; 0=No         130         0.10         0         1         0.49           Eq_Other_Camp_D         1=Yes; 0=No         130         0.02         0         1         0.49           Eq_Other_Camp_E         1=Yes; 0=No         130         0.19         0         1         0.40           Eq_Other_Camp_E         1=Yes; 0=No         130         0.19         0         1         0.40           Eq_Other_Camp_E         1=Yes; 0=No         130         0.19         0         1         0.							
Eq_Campers_F         1=Yes; 0=No         33         0         0         0         0           Eq_CampersPct         % used for sportfishing         20         56.25         0         100         35.39           Eq_Other_Camp_A         1=Yes; 0=No         130         0.12         0         1         0.33           Eq_Other_Camp_B         1=Yes; 0=No         130         0.10         0         1         0.33           Eq_Other_Camp_B         1=Yes; 0=No         130         0.10         0         1         0.30           Eq_Other_Camp_D         1=Yes; 0=No         130         0.09         0         1         0.49           Eq_Other_Camp_E         1=Yes; 0=No         130         0.09         0         1         0.49           Eq_Other_Camp_F         1=Yes; 0=No         130         0.09         0         0         0           Eq_Other_Camp_F         1=Yes; 0=No         130         0.09         0         0         0           Eq_Vehicles_A         1=Yes; 0=No         130         0.09         0         0         0           Eq_Vehicles_B         1=Yes; 0=No         53         0.08         0         1         0.27           Eq_Vehicle					-	-	
Eq_CampersPct         % used for sportfishing         20         56.25         0         100         35.39           Eq_Other_Camp_A         1=Yes; 0=No         130         0.12         0         1         0.33           Eq_Other_Camp_B         1=Yes; 0=No         130         0.10         0         1         0.33           Eq_Other_Camp_B         1=Yes; 0=No         130         0.09         0         1         0.30           Eq_Other_Camp_C         1=Yes; 0=No         130         0.09         0         1         0.49           Eq_Other_Camp_E         1=Yes; 0=No         130         0.09         0         1         0.15           Eq_Other_Camp_E         1=Yes; 0=No         130         0.09         0         0         0         0           Eq_Other_Camp_E         1=Yes; 0=No         130         0.09         0						-	
Eq_Other_Camp         Total Amount Spent on Other Camping Equipment         704         29.54         0         3,000         136.63           Eq_Other_Camp_A         1=Yes; 0=No         130         0.12         0         1         0.33           Eq_Other_Camp_B         1=Yes; 0=No         130         0.10         0         1         0.30           Eq_Other_Camp_C         1=Yes; 0=No         130         0.09         0         1         0.49           Eq_Other_Camp_E         1=Yes; 0=No         130         0.02         0         1         0.49           Eq_Other_Camp_E         1=Yes; 0=No         130         0.02         0         1         0.40           Eq_Other_Camp_E         1=Yes; 0=No         130         0.19         0         0         0           Eq_Other_Camp_E         1=Yes; 0=No         130         0.09         0         0         0           Eq_Other_Camp_E         1=Yes; 0=No         85         56.41         0         100         37.38           Eq_Other_Camp_E         1=Yes; 0=No         83         0.80         0         1         0.27           Eq_Other_Camp_E         1=Yes; 0=No         53         0.08         0         1         0.27 </td <td></td> <td></td> <td></td> <td>-</td> <td></td> <td>_</td> <td>35.39</td>				-		_	35.39
Eq_Other_Camp_A         1=Yes; 0=No         130         0.12         0         1         0.33           Eq_Other_Camp_B         1=Yes; 0=No         130         0.10         0         1         0.30           Eq_Other_Camp_C         1=Yes; 0=No         130         0.02         0         1         0.49           Eq_Other_Camp_D         1=Yes; 0=No         130         0.02         0         1         0.49           Eq_Other_Camp_E         1=Yes; 0=No         130         0.09         0         0         0         0           Eq_Other_Camp_E         1=Yes; 0=No         130         0.19         0							
Eq_Other_Camp_B         1=Yes; 0=No         130         0.10         0         1         0.30           Eq_Other_Camp_C         1=Yes; 0=No         130         0.59         0         1         0.49           Eq_Other_Camp_D         1=Yes; 0=No         130         0.02         0         1         0.15           Eq_Other_Camp_E         1=Yes; 0=No         130         0.09         0         0         0           Eq_Other_CampPct         1=Yes; 0=No         130         0         0         0         0           Eq_Other_CampPct         % used for sportfishing         85         56.41         0         100         37.38           Eq_Vehicles         Total Amount Spent on Vehicles         704         1,248.15         0         58,000         5,959.79           Eq_Vehicles_A         1=Yes; 0=No         53         0.08         0         1         0.27           Eq_Vehicles_B         1=Yes; 0=No         53         0.08         0         1         0.30           Eq_Vehicles_C         1=Yes; 0=No         53         0.57         0         1         0.30           Eq_Vehicles_E         1=Yes; 0=No         53         0.15         0         1         0.36 </td <td></td> <td></td> <td></td> <td></td> <td></td> <td>1</td> <td></td>						1	
Eq_Other_Camp_C         1=Yes; 0=No         130         0.59         0         1         0.49           Eq_Other_Camp_D         1=Yes; 0=No         130         0.02         0         1         0.15           Eq_Other_Camp_E         1=Yes; 0=No         130         0.19         0         1         0.40           Eq_Other_CampPct         1=Yes; 0=No         130         0.0         0 <t< td=""><td></td><td></td><td></td><td></td><td></td><td>1</td><td></td></t<>						1	
Eq_Other_Camp_D         1=Yes; 0=No         130         0.02         0         1         0.15           Eq_Other_Camp_E         1=Yes; 0=No         130         0.19         0         1         0.40           Eq_Other_Camp_E         1=Yes; 0=No         130         0         0         0         0           Eq_Other_CampPct         1=Yes; 0=No         85         56.41         0         100         37.38           Eq_Vehicles         Total Amount Spent on Vehicles         704         1,248.15         0         58,000         5,759.79           Eq_Vehicles_A         1=Yes; 0=No         53         0.08         0         1         0.27           Eq_Vehicles_B         1=Yes; 0=No         53         0.09         0         1         0.27           Eq_Vehicles_C         1=Yes; 0=No         53         0.09         0         1         0.27           Eq_Vehicles_D         1=Yes; 0=No         53         0.09         0         1         0.20           Eq_Vehicles_E         1=Yes; 0=No         53         0.15         0         1         0.36           Eq_Vehicles_F         1=Yes; 0=No         53         0.15         0         0         0         0 </td <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>							
Eq_Other_Camp_E       1=Yes; 0=No       130       0.19       0       1       0.40         Eq_Other_Camp_F       1=Yes; 0=No       130       0       0       0       0         Eq_Other_CampPct       % used for sportfishing       85       56.41       0       100       37.38         Eq_Vehicles       Total Amount Spent on Vehicles       704       1,248.15       0       58,000       5,959.79         Eq_Vehicles_A       1=Yes; 0=No       53       0.08       0       1       0.27         Eq_Vehicles_B       1=Yes; 0=No       53       0.09       0       1       0.30         Eq_Vehicles_C       1=Yes; 0=No       53       0.02       0       1       0.30         Eq_Vehicles_E       1=Yes; 0=No       53       0.02       0       1       0.36         Eq_Vehicles_F       1=Yes; 0=No       53       0.15       0       1       0.36         Eq_Vehicles_F       1=Yes; 0=No       53       0.15       0       0       0         Eq_Planes       Total Amount Spent on Airplanes and Related Equipment       704       40.13       0       100       34.94         Eq_Planes_B       1=Yes; 0=No       9       0						-	
Eq_Other_Camp_F         1=Yes; 0=No         130         0         0         0           Eq_Other_CampPct         % used for sportfishing         85         56.41         0         100         37.38           Eq_Vehicles         Total Amount Spent on Vehicles         704         1,248.15         0         58,000         5,959.79           Eq_Vehicles_A         1=Yes; 0=No         53         0.08         0         1         0.27           Eq_Vehicles_B         1=Yes; 0=No         53         0.09         0         1         0.30           Eq_Vehicles_C         1=Yes; 0=No         53         0.02         0         1         0.30           Eq_Vehicles_D         1=Yes; 0=No         53         0.02         0         1         0.36           Eq_Vehicles_E         1=Yes; 0=No         53         0.02         0         1         0.36           Eq_Vehicles_F         1=Yes; 0=No         53         0.15         0         1         0.36           Eq_Vehicles_F         1=Yes; 0=No         53         0.15         0         0         0         0           Eq_Planes_B         1=Yes; 0=No         40         40.13         0         100         34.94 <tr< td=""><td></td><td></td><td></td><td></td><td></td><td>-</td><td></td></tr<>						-	
Eq_Other_CampPct         % used for sportfishing         85         56.41         0         100         37.38           Eq_Vehicles         Total Amount Spent on Vehicles         704         1,248.15         0         58,000         5,959.79           Eq_Vehicles_A         1=Yes; 0=No         53         0.08         0         1         0.27           Eq_Vehicles_B         1=Yes; 0=No         53         0.09         0         1         0.30           Eq_Vehicles_C         1=Yes; 0=No         53         0.07         0         1         0.50           Eq_Vehicles_D         1=Yes; 0=No         53         0.02         0         1         0.50           Eq_Vehicles_E         1=Yes; 0=No         53         0.05         0         1         0.36           Eq_Vehicles_F         1=Yes; 0=No         53         0.05         0		· · · · · · · · · · · · · · · · · · ·				0	
Eq_Vehicles         Total Amount Spent on Vehicles         704         1,248.15         0         58,000         5,959.79           Eq_Vehicles_A         1=Yes; 0=No         53         0.08         0         1         0.27           Eq_Vehicles_B         1=Yes; 0=No         53         0.09         0         1         0.30           Eq_Vehicles_C         1=Yes; 0=No         53         0.07         0         1         0.50           Eq_Vehicles_D         1=Yes; 0=No         53         0.02         0         1         0.36           Eq_Vehicles_E         1=Yes; 0=No         53         0.15         0         1         0.36           Eq_Vehicles_F         1=Yes; 0=No         53         0.15         0         0         0           Eq_Planes_A         1=Yes; 0=No         40         40.13         0         100         10           Eq_Planes_B <td></td> <td></td> <td></td> <td>-</td> <td></td> <td>-</td> <td></td>				-		-	
Eq_Vehicles_A       1=Yes; 0=No       53       0.08       0       1       0.27         Eq_Vehicles_B       1=Yes; 0=No       53       0.09       0       1       0.30         Eq_Vehicles_C       1=Yes; 0=No       53       0.57       0       1       0.50         Eq_Vehicles_D       1=Yes; 0=No       53       0.02       0       1       0.14         Eq_Vehicles_E       1=Yes; 0=No       53       0.15       0       1       0.36         Eq_Vehicles_F       1=Yes; 0=No       53       0       0       0       0       0         Eq_Vehicles_F       1=Yes; 0=No       53       0							
Eq_Vehicles_B       1=Yes; 0=No       53       0.09       0       1       0.30         Eq_Vehicles_C       1=Yes; 0=No       53       0.57       0       1       0.50         Eq_Vehicles_D       1=Yes; 0=No       53       0.02       0       1       0.14         Eq_Vehicles_E       1=Yes; 0=No       53       0.15       0       1       0.36         Eq_Vehicles_F       1=Yes; 0=No       53       0       0       0       0         Eq_Vehicles_Pct       % used for sportfishing       40       40.13       0       100       34.94         Eq_Planes       Total Amount Spent on Airplanes and Related Equipment       704       110.44       0       63,000       2,405.16         Eq_Planes_A       1=Yes; 0=No       9       0.22       0       1       0.44         Eq_Planes_B       1=Yes; 0=No       9       0       0       0       0         Eq_Planes_C       1=Yes; 0=No       9       0       0       0       0         Eq_Planes_E       1=Yes; 0=No       9       0       0       0       0         Eq_Planes_F       1=Yes; 0=No       9       0       0       0       0 <tr< td=""><td></td><td></td><td></td><td></td><td>-</td><td>_</td><td></td></tr<>					-	_	
Eq_Vehicles_C       1=Yes; 0=No       53       0.57       0       1       0.50         Eq_Vehicles_D       1=Yes; 0=No       53       0.02       0       1       0.14         Eq_Vehicles_E       1=Yes; 0=No       53       0.15       0       1       0.36         Eq_Vehicles_F       1=Yes; 0=No       53       0       0       0       0         Eq_VehiclesPct       % used for sportfishing       40       40.13       0       100       34.94         Eq_Planes       Total Amount Spent on Airplanes and Related Equipment       704       110.44       0       63,000       2,405.16         Eq_Planes_A       1=Yes; 0=No       9       0       0       0       0         Eq_Planes_B       1=Yes; 0=No       9       0       0       0       0         Eq_Planes_C       1=Yes; 0=No       9       0       0       0       0         Eq_Planes_E       1=Yes; 0=No       9       0       0       0       0         Eq_Planes_F       1=Yes; 0=No       9       0       0       0       0         Eq_PlanesPct       % used for sportfishing       3       16.67       0       50       28.87							
Eq_Vehicles_D       1=Yes; 0=No       53       0.02       0       1       0.14         Eq_Vehicles_E       1=Yes; 0=No       53       0.15       0       1       0.36         Eq_Vehicles_F       1=Yes; 0=No       53       0       0       0       0         Eq_VehiclesPct       % used for sportfishing       40       40.13       0       100       34.94         Eq_Planes       Total Amount Spent on Airplanes and Related Equipment       704       110.44       0       63,000       2,405.16         Eq_Planes_A       1=Yes; 0=No       9       0.22       0       1       0.44         Eq_Planes_B       1=Yes; 0=No       9       0       0       0       0         Eq_Planes_C       1=Yes; 0=No       9       0       0       0       0         Eq_Planes_E       1=Yes; 0=No       9       0       0       0       0         Eq_Planes_F       1=Yes; 0=No       9       0       0       0       0         Eq_Planes_F       1=Yes; 0=No       9       0       0       0       0       0         Eq_Planes_Pct       % used for sportfishing       3       16.67       0       50       28.87 </td <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>							
Eq_Vehicles_E       1=Yes; 0=No       53       0.15       0       1       0.36         Eq_Vehicles_F       1=Yes; 0=No       53       0       0       0       0         Eq_VehiclesPct       % used for sportfishing       40       40.13       0       100       34.94         Eq_Planes       Total Amount Spent on Airplanes and Related Equipment       704       110.44       0       63,000       2,405.16         Eq_Planes_A       1=Yes; 0=No       9       0.22       0       1       0.44         Eq_Planes_B       1=Yes; 0=No       9       0       0       0       0         Eq_Planes_C       1=Yes; 0=No       9       0       0       0       0         Eq_Planes_E       1=Yes; 0=No       9       0       0       0       0         Eq_Planes_F       1=Yes; 0=No       9       0       0       0       0         Eq_PlanesPct       % used for sportfishing       3       16.67       0       50       28.87         Eq_ATV       Total Amount Spent on ATVs, and Snowmobiles       704       459.38       0       22,000       2,209.55         Eq_ATV_A       1=Yes; 0=No       63       0.02       0							
Eq_Vehicles_F       1=Yes; 0=No       53       0       0       0       0         Eq_VehiclesPct       % used for sportfishing       40       40.13       0       100       34.94         Eq_Planes       Total Amount Spent on Airplanes and Related Equipment       704       110.44       0       63,000       2,405.16         Eq_Planes_A       1=Yes; 0=No       9       0.22       0       1       0.44         Eq_Planes_B       1=Yes; 0=No       9       0       0       0       0         Eq_Planes_C       1=Yes; 0=No       9       0       0       0       0         Eq_Planes_E       1=Yes; 0=No       9       0       0       0       0         Eq_Planes_F       1=Yes; 0=No       9       0       0       0       0         Eq_PlanesPct       % used for sportfishing       3       16.67       0       50       28.87         Eq_ATV       Total Amount Spent on ATVs, and Snowmobiles       704       459.38       0       22,000       2,209.55         Eq_ATV_A       1=Yes; 0=No       63       0.02       0       1       0.13							
Eq_VehiclesPct       % used for sportfishing       40       40.13       0       100       34.94         Eq_Planes       Total Amount Spent on Airplanes and Related Equipment       704       110.44       0       63,000       2,405.16         Eq_Planes_A       1=Yes; 0=No       9       0.22       0       1       0.44         Eq_Planes_B       1=Yes; 0=No       9       0       0       0       0         Eq_Planes_C       1=Yes; 0=No       9       0       0       0       0         Eq_Planes_D       1=Yes; 0=No       9       0       0       0       0         Eq_Planes_E       1=Yes; 0=No       9       0       0       0       0         Eq_PlanesPct       1=Yes; 0=No       9       0       0       0       0         Eq_ATV       Total Amount Spent on ATVs, and Snowmobiles       704       459.38       0       22,000       2,209.55         Eq_ATV_A       1=Yes; 0=No       63       0.02       0       1       0.13					-	0	
Eq_Planes       Total Amount Spent on Airplanes and Related Equipment       704       110.44       0       63,000       2,405.16         Eq_Planes_A       1=Yes; 0=No       9       0.22       0       1       0.44         Eq_Planes_B       1=Yes; 0=No       9       0       0       0       0         Eq_Planes_C       1=Yes; 0=No       9       0.44       0       1       0.53         Eq_Planes_D       1=Yes; 0=No       9       0       0       0       0         Eq_Planes_E       1=Yes; 0=No       9       0       0       0       0         Eq_Planes_F       1=Yes; 0=No       9       0       0       0       0         Eq_PlanesPct       % used for sportfishing       3       16.67       0       50       28.87         Eq_ATV       Total Amount Spent on ATVs, and Snowmobiles       704       459.38       0       22,000       2,209.55         Eq_ATV_A       1=Yes; 0=No       63       0.02       0       1       0.13							
Eq_Planes_A       1=Yes; 0=No       9       0.22       0       1       0.44         Eq_Planes_B       1=Yes; 0=No       9       0       0       0       0         Eq_Planes_C       1=Yes; 0=No       9       0.44       0       1       0.53         Eq_Planes_D       1=Yes; 0=No       9       0       0       0       0         Eq_Planes_E       1=Yes; 0=No       9       0       0       0       0         Eq_Planes_F       1=Yes; 0=No       9       0       0       0       0         Eq_PlanesPct       % used for sportfishing       3       16.67       0       50       28.87         Eq_ATV       Total Amount Spent on ATVs, and Snowmobiles       704       459.38       0       22,000       2,209.55         Eq_ATV_A       1=Yes; 0=No       63       0.02       0       1       0.13							
Eq_Planes_B       1=Yes; 0=No       9       0       0       0       0         Eq_Planes_C       1=Yes; 0=No       9       0.44       0       1       0.53         Eq_Planes_D       1=Yes; 0=No       9       0       0       0       0         Eq_Planes_E       1=Yes; 0=No       9       0       0       0       0         Eq_Planes_F       1=Yes; 0=No       9       0       0       0       0         Eq_ATV       Total Amount Spent on ATVs, and Snowmobiles       704       459.38       0       22,000       2,209.55         Eq_ATV_A       1=Yes; 0=No       63       0.02       0       1       0.13						_	
Eq_Planes_C       1=Yes; 0=No       9       0.44       0       1       0.53         Eq_Planes_D       1=Yes; 0=No       9       0       0       0       0         Eq_Planes_E       1=Yes; 0=No       9       0       0       0       0         Eq_Planes_F       1=Yes; 0=No       9       0       0       0       0         Eq_PlanesPct       % used for sportfishing       3       16.67       0       50       28.87         Eq_ATV       Total Amount Spent on ATVs, and Snowmobiles       704       459.38       0       22,000       2,209.55         Eq_ATV_A       1=Yes; 0=No       63       0.02       0       1       0.13				_			_
Eq_Planes_D       1=Yes; 0=No       9       0       0       0       0         Eq_Planes_E       1=Yes; 0=No       9       0       0       0       0         Eq_Planes_F       1=Yes; 0=No       9       0       0       0       0         Eq_PlanesPct       % used for sportfishing       3       16.67       0       50       28.87         Eq_ATV       Total Amount Spent on ATVs, and Snowmobiles       704       459.38       0       22,000       2,209.55         Eq_ATV_A       1=Yes; 0=No       63       0.02       0       1       0.13				-		1	-
Eq_Planes_E       1=Yes; 0=No       9       0       0       0       0         Eq_Planes_F       1=Yes; 0=No       9       0       0       0       0         Eq_PlanesPct       % used for sportfishing       3       16.67       0       50       28.87         Eq_ATV       Total Amount Spent on ATVs, and Snowmobiles       704       459.38       0       22,000       2,209.55         Eq_ATV_A       1=Yes; 0=No       63       0.02       0       1       0.13				_		0	_
Eq_Planes_F       1=Yes; 0=No       9       0       0       0       0         Eq_PlanesPct       % used for sportfishing       3       16.67       0       50       28.87         Eq_ATV       Total Amount Spent on ATVs, and Snowmobiles       704       459.38       0       22,000       2,209.55         Eq_ATV_A       1=Yes; 0=No       63       0.02       0       1       0.13				-			-
Eq_PlanesPct       % used for sportfishing       3       16.67       0       50       28.87         Eq_ATV       Total Amount Spent on ATVs, and Snowmobiles       704       459.38       0       22,000       2,209.55         Eq_ATV_A       1=Yes; 0=No       63       0.02       0       1       0.13				_		_	-
Eq_ATV       Total Amount Spent on ATVs, and Snowmobiles       704       459.38       0       22,000       2,209.55         Eq_ATV_A       1=Yes; 0=No       63       0.02       0       1       0.13			_	ŭ		-	-
Eq_ATV_A     1=Yes; 0=No       63     0.02       0     1       0.13							
	Eq_ATV_B	1=Yes; 0=No	63	0.05	0	1	0.13

**NOTE: Summary statistics of raw survey data.** The mean values reported here do not necessarily represent average spending by all Alaska anglers; the standard deviations do to not apply to final spending estimates. This table includes raw survey data that underwent numerous transformations to produce the final study estimates.

Appendix G2.-Page 12 of 13

Variable	Label	N	Mean	Min	Max	StdDev
Eq_ATV_C	1=Yes; 0=No	63	0.63	0	1	0.49
Eq_ATV_D	1=Yes; 0=No	63	0.02	0	1	0.13
Eq_ATV_E	1=Yes; 0=No	63	0.19	0	1	0.40
Eq_ATV_F	1=Yes; 0=No	63	0.03	0	1	0.18
Eq_ATVPct	% used for sportfishing	41	36.34	0	100	31.62
Eq_Registration	Total Amount Spent on Boat/Camper Registration	704	37.32	0	3,000	212.48
Eq_Registration_A	1=Yes; 0=No	143	0.19	0	1	0.39
Eq_Registration_B	1=Yes; 0=No	143	0.10	0	1	0.30
Eq_Registration_C	1=Yes; 0=No	143	0.56	0	1	0.50
Eq_Registration_D	1=Yes; 0=No	143	0.02	0	1	0.14
Eq_Registration_E	1=Yes; 0=No	143	0.13	0	1	0.33
Eq_Registration_F	1=Yes; 0=No	143	0	0	0	0
Eq_RegistrationPct	% used for sportfishing	88	72.45	0	100	40.22
Eq_Repair	Total Amount Spent on Vehicle Repair/Maintenance	704	202.83	0	16,000	1,044.99
Eq_Repair_A	1=Yes; 0=No	169	0.21	0	1	0.41
Eq_Repair_B	1=Yes; 0=No	169	0.08	0	1	0.27
Eq_Repair_C	1=Yes; 0=No	169	0.52	0	1	0.50
Eq_Repair_D	1=Yes; 0=No	169	0.02	0	1	0.15
Eq_Repair_E	1=Yes; 0=No	169	0.15	0	1	0.36
Eq_Repair_F	1=Yes; 0=No	169	0.01	0	1	0.08
Eq_RepairPct	% used for sportfishing	114	59.18	0	100	42.20
	Total Amount Spent on Other, including non-fishing related					
Eq_Other	purchases	783	2.55	0	700	36.99
Eq_Other_A	1=Yes; 0=No	46	0.11	0	1	0.31
Eq_Other_B	1=Yes; 0=No	46	0.09	0	1	0.28
Eq_Other_C	1=Yes; 0=No	46	0.59	0	1	0.50
Eq_Other_D	1=Yes; 0=No	46	0.04	0	1	0.21
Eq_Other_E	1=Yes; 0=No	46	0.11	0	1	0.31
Eq_Other_F	1=Yes; 0=No	46	0	0	0	0
Eq_OtherPct	% used for sportfishing	26	62.50	0	100	46.27
Own	Amount Spent on Real Estate Owned/Shared for Fishing	418	1,117.63	0	230,000	11,889.91
Own_A	Region A 1=Yes; 0=No	78	0.05	0	1	0.22
Own_B	Region B 1=Yes; 0=No	78	0.05	0	1	0.22
Own_C	Region C 1=Yes; 0=No	78	0.38	0	1	0.49
Own_D	Region D 1=Yes; 0=No	78	0.03	0	1	0.16
Own_E	Region E 1=Yes; 0=No	78	0.04	0	1	0.19
Own_F	Region F 1=Yes; 0=No	78	0	0	0	0
Lease	Amount Spent on Real Estate Leased/Rented for Fishing	420	123.02	0	8,400	609.00
Lease_A	Region A 1=Yes; 0=No	82	0.17	0	1	0.38
Lease_B	Region B 1=Yes; 0=No	82	0.05	0	1	0.22
Lease_C	Region C 1=Yes; 0=No	82	0.30	0	1	0.46
Lease_D	Region D 1=Yes; 0=No	82	0.01	0	1	0.11
Lease_E	Region E 1=Yes; 0=No	82	0.04	0	1	0.19
Lease_F	Region F 1=Yes; 0=No	82	0	0	0	0
Maintain	Amount Spent on Repairs/Maintenance for Real Estate	415	184.61	0	40,000	2,017.10
Maint_A	Region A 1=Yes; 0=No	67	0.09	0	1	0.29
Maint_B	Region B 1=Yes; 0=No	67	0.03	0	1	0.17
Maint_C	Region C 1=Yes; 0=No	67	0.27	0	1	0.45
Maint_D	Region D 1=Yes; 0=No	67	0.01	0	1	0.12
Maint_E	Region E 1=Yes; 0=No	51	0.06	0	1	0.24
Maint_F	Region F 1=Yes; 0=No	67	0	0	0	0
Cabin	Amount Spent on Construction of Buildings, Cabins, Etc	414	470.29	0	80,000	4,515.73
Cabin_A	Region A 1=Yes; 0=No	59	0.07	0	1	0.25
Cabin_B	Region B 1=Yes; 0=No	59	0.03	0	1	0.18
Cabin_C	Region C 1=Yes; 0=No	59	0.24	0	1	0.43

**NOTE: Summary statistics of raw survey data.** The mean values reported here do not necessarily represent average spending by all Alaska anglers; the standard deviations do to not apply to final spending estimates. This table includes raw survey data that underwent numerous transformations to produce the final study estimates.

Appendix G2.-Page 13 of 13

Variable	Label	N	Mean	Min	Max	StdDev
Cabin_D	Region D 1=Yes; 0=No	59	0.02	0	1	0.13
Cabin_E	Region E 1=Yes; 0=No	59	0.03	0	1	0.18
Cabin_F	Region F 1=Yes; 0=No	59	0.02	0	1	0.13
Sex	1=Male; 2=Female	757	1.30	1	2	0.46
B_year	Year of Birth	751	1,963.11	1,922	1,991	11.89
	1=Did not Graduate H.S.; 2=H.S. Graduate or GED; 3=1-3 Years					
Educ	of College; 4=College Graduate; 5=Postgraduate, Masters,Ph.D	749	3.31	1	5	1.10
	1=Less Than 9,999; 2=10k-19,999; 3=20k-29,999; 4=30k-39,999;					
	5=40k-49,999; 6=50k-59,999; 7=60k-69,999; 8=70k-79,999;					
	9=80k-89,999; 10=90k-99,999; 11=100k-249,999; 12=250k or					
HH_Income	More	717	7.72	1	12	3.12
	1=Very Dissatisfied; 2=Generally Dissatisfied; 3=Neutral;					
Satis	4=Generally Satisfied; 5=Very Satisfied	753	3.87	1	5	1.01

**NOTE: Summary statistics of raw survey data.** The mean values reported here do not necessarily represent average spending by all Alaska anglers; the standard deviations do to not apply to final spending estimates. This table includes raw survey data that underwent numerous transformations to produce the final study estimates.

Appendix G3.—Summary statistics for survey response variables: Wave 2 nonresident respondents.

Variable	Label	N	Mean	Min	Max	StdDev
	Number of days fishing in Saltwater, November Thru December,			-		
NovDec_salt	2006	1632	0.03	0	7	0.36
NauDaa faaab	Number of days fishing in Freshwater, November Thru	1/22	0.04	0	1.4	0.50
NovDec_fresh	December, 2006	1632	0.04	0	14	0.59
JanApr_salt	Number of days fishing in Saltwater, January Thru April, 2007	1632	0.14	0	12	0.81
Jan_Apr_fresh	Number of days fishing in Freshwater, January Thru April, 2007	1632	0.16	0	14	0.96
Movelup frob A	Number of days fishing in Freshwater, May 1st Thru June 30th,	1735	0.07	0	10	0.61
MayJun_frsh_A	2007; Region A	1733	0.07	0	10	0.01
MayJun_frsh_B	Number of days fishing in Freshwater, May 1st Thru June 30th, 2007; Region B	1735	0.04	0	7	0.40
MayJull_IISII_D	Number of days fishing in Freshwater, May 1st Thru June 30th,	1733	0.04	U	/	0.40
MayJun_frsh_C	2007; Region C	1735	0.46	0	23	1.79
MayJuli_II3II_C	Number of days fishing in Freshwater, May 1st Thru June 30th,	1733	0.40	U	23	1.77
MayJun_frsh_D	2007; Region D	1735	0.12	0	13	0.83
Maysun_nsn_b	Number of days fishing in Freshwater, May 1st Thru June 30th,	1733	0.12	U	13	0.03
MayJun_frsh_E	2007; Region E	1735	0.08	0	15	0.79
maysun_nsn_L	Number of days fishing in Freshwater, May 1st Thru June 30th,	1700	0.00	Ü	10	0.77
MayJun_frsh_F	2007; Region F	1735	0.06	0	22	0.80
	Number of days fishing in Saltwater, May 1st Thru June 30th,					5.55
MayJun_salt_A	2007; Region A	1735	0.59	0	60	2.85
.,	Number of days fishing in Saltwater, May 1st Thru June 30th,					
MayJun_salt_B	2007; Region B	1735	0.12	0	30	1.13
, – –	Number of days fishing in Saltwater, May 1st Thru June 30th,					
MayJun_salt_C	2007; Region C	1735	0.23	0	20	1.00
	Number of days fishing in Saltwater, May 1st Thru June 30th,					
MayJun_salt_D	2007;Region D	1735	0.02	0	5	0.25
	Number of days fishing in Saltwater, May 1st Thru June 30th,					
MayJun_salt_F	2007; Region F	1735	0.00	0	2	0.05
	Number of days fishing in Freshwater, July 1st Thru October			_		
JulOct_frsh_A	31st, 2007; Region A	1735	0.16	0	17	0.95
	Number of days fishing in Freshwater, July 1st Thru October	4705	0.47		00	4.00
JulOct_frsh_B	31st, 2007; Region B	1735	0.16	0	28	1.20
Indo-t feels C	Number of days fishing in Freshwater, July 1st Thru October	1705	1.00	0	00	4.07
JulOct_frsh_C	31st, 2007; Region C	1735	1.33	0	80	4.27
JulOot frob D	Number of days fishing in Freshwater, July 1st Thru October	1725	0.20	0	ΕO	2.14
JulOct_frsh_D	31st, 2007; Region D	1735	0.29	0	50	2.14
JulOct_frsh_E	Number of days fishing in Freshwater, July 1st Thru October 31st, 2007; Region E	1735	0.14	0	30	1.20
Juloci_IISII_L	Number of days fishing in Freshwater, July 1st Thru October	1733	0.14	U	30	1.20
JulOct_frsh_F	31st, 2007; Region F	1735	0.20	0	60	2.25
Juloci_II3II_I	Number of days fishing in Saltwater, July 1st Thru October 31st,	1733	0.20	O	00	2.20
JulOct_salt_A	2007; Region A	1735	0.93	0	60	3.35
34100t_34t_7t	Number of days fishing in Saltwater, July 1st Thru October 31st,	1700	0.70	Ü	00	0.00
JulOct_salt_B	2007; Region B	1735	0.33	0	26	1.26
	Number of days fishing in Saltwater, July 1st Thru October 31st,					
JulOct_salt_C	2007; Region C	1735	0.36	0	30	1.27
	Number of days fishing in Saltwater, July 1st Thru October 31st,					
JulOct_salt_D	2007; Region D	1735	0.06	0	10	0.54
	Number of days fishing in Saltwater, July 1st Thru October 31st,					
JulOct_salt_F	2007; Region F	1735	0	0	0	0
LastMo_MayJun	1=May; 2=June; 3=Did not fish between May 1st and June 30st	1490	2.49	1	3	0.63
tripdays_1	Total days involved in last trip to Alaska	691	14.79	0	180	20.94
ļ	Number of days actually fished in Alaska between May 1st and					
fishdays_1	June 30th	687	4.59	0	60	5.71
commit_1	1=Yes; 0=No	688	0.56	0	1	0.50

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Appendix G3.–Page 2 of 13

Variable	Label	N	Mean	Min	Max	StdDev
fish_type_1	1=Rod&Reel 2=Shellfish Fishing	680	1.00	1	2	0.04
water_type_1	1=In Freshwater; 2=InSaltwater; 3=In Both	684	1.83	1	3	0.68
charter_1	1=Yes; 0=No	684	0.69	0	1	0.46
trip1_A	Did you fish in Region A 1=Yes; 0=No	819	0.32	0	1	0.47
trip1_B	Did you fish in Region B 1=Yes; 0=No	820	0.11	0	1	0.32
trip1_C	Did you fish in Region C 1=Yes; 0=No	820	0.37	0	1	0.48
trip1_D	Did you fish in Region D 1=Yes; 0=No	822	0.06	0	1	0.25
trip1_E	Did you fish in Region E 1=Yes; 0=No	820	0.04	0	1	0.21
trip1_F	Did you fish in Region F 1=Yes; 0=No	821	0.02	0	1	0.14
King_1	King Salmon 1=Yes; 0=No	818	0.56	0	1	0.50
Silver 1	Silver Salmon 1=Yes; 0=No	816	0.17	0	1	0.37
Red_1	Red Salmon 1=Yes; 0=No	816	0.16	0	1	0.37
OtherSalm_1	Other Salmon 1=Yes; 0=No	817	0.06	0	1	0.25
OtherFresh_1	Other Freshwater 1=Yes; 0=No	817	0.07	0	1	0.25
Steel_1	Steelhead 1=Yes; 0=No	816	0.04	0	1	0.20
Trout_1	Trout 1=Yes; 0=No	817	0.13	0	1	0.33
Halibut_1	Halibut 1=Yes; 0=No	816	0.47	0	1	0.50
Shell_1	Shellfish 1=Yes; 0=No	816	0.04	0	1	0.20
PtherSalt_1	Other Saltwater 1=Yes; 0=No	818	0.10	0	1	0.30
pkg_1	Total Cost of pre-arranged cruise, package tour, or charter trip	577	2,198.43	0	50,000	3,654.65
pkg_1_A	Visited 1=Yes; 0=No	636	0.27	0	1	0.44
pkg_1_X pkg_1_B	Visited 1=Yes; 0=No	637	0.27	0	1	0.32
pkg_1_B pkg_1_C	Visited 1=Yes; 0=No	636	0.11	0	1	0.32
pkg_1_0 pkg_1_D	Visited 1=Yes; 0=No	637	0.25	0	1	0.42
pkg_1_E	Visited 1=Yes: 0=No	637	0.06	0	1	0.22
pkg_1_E pkg_1_F	Visited 1=Yes; 0=No	637	0.00	0	1	0.24
pkg_1_i pkg_1_air	Transportation to/from Alaska 1=Yes; 0=No	488	0.36	0	1	0.12
pkg_1_trans	Transportation in Alaska 1=Yes; 0=No	484	0.30	0	1	0.40
pkg_1_trans pkg_1_guide	Guides &/or charter boat 1=Yes; 0=No	495	0.44	0	1	0.50
pkg_1_galac pkg_1_lodge	Lodging 1=Yes; 0=No	487	0.57	0	1	0.50
pkg_1_louge pkg_1_food	Meals 1=Yes; 0=No	483	0.31	0	1	0.50
pkg_1_lic	Fishing License 1=Yes; 0=No	491	0.47	0	1	0.36
Lic_1	Total Amount Spent on License and Stamp	669	82.77	0	667	98.93
Lic_1 Lic_1_A	1=Yes; 0=No	604	0.23	0	1	0.42
Lic_1_A	1=Yes; 0=No	605	0.23	0	1	0.42
Lic_1_B Lic_1_C	1=Yes; 0=No	604	0.39	0	1	0.23
Lic_1_C Lic_1_D	1=Yes; 0=No	605	0.04	0	1	0.47
Lic_1_D Lic_1_E	1=Yes; 0=No	604	0.04	0	1	0.19
Lic_1_E	1=Yes; 0=No	605	0.04	0	1	0.17
Lic_1_i Lic_1_out	Purchased Outside Alaska 1=Yes; 0=No	414	0.00	0	1	0.07
Fuel_1	Total Amount Spent on Fuel	669	261.09	0	19,651	1,028.05
Fuel_1_A	1=Yes; 0=No	454	0.16	0	17,031	0.37
Fuel_1_B	1=Yes; 0=No	454	0.16	0	1	0.37
Fuel_1_C	1=Yes; 0=No	454	0.13	0	1	0.50
Fuel_1_D	1=Yes; 0=No	454	0.48	0	1	0.30
Fuel_1_E	1=Yes; 0=No	454	0.03	0	1	0.17
Fuel_1_E Fuel_1_F	1=Yes; 0=No	453 454	0.13	0	1	0.33
Fuel_out_1	Purchased Outside Alaska 1=Yes; 0=No	329	0.02	0	1	0.13
Guide_1	Total Amount Spent on Guide	670	332.40	0	6,000	739.20
	1=Yes; 0=No	412	0.18		1	0.39
Guide_1_A	1=Yes; 0=N0 1=Yes; 0=N0	412	0.18	0	1	0.39
Guide_1_B	1=Yes; 0=No	412	0.10	0	1	0.30
Guide_1_C	1=Yes; 0=No	412	0.35	0	1	0.48
Guide_1_D						
Guide_1_E	1=Yes; 0=No	412	0.05	0	1	0.22
Guide_1_F	1=Yes; 0=No	412	0.00	0	ı	0.05

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Appendix G3.–Page 3 of 13

Variable	Label	N	Mean	Min	Max	StdDev
Guide_out_1	Purchased Outside Alaska 1=Yes; 0=No	299	0.04	0	1	0.19
Air_1	Total Amount Spent on Airfare	669	581.13	0	8,000	820.56
Air_1_A	Region A 1=Yes; 0=No	463	0.20	0	1	0.40
Air_1_B	Region B 1=Yes; 0=No	463	0.03	0	1	0.18
Air_1_C	Region C 1=Yes; 0=No	463	0.24	0	1	0.43
Air_1_D	Region D 1=Yes; 0=No	463	0.02	0	1	0.15
Air_1_E	Region E 1=Yes; 0=No	463	0.02	0	1	0.15
Air_1_F	Region F 1=Yes; 0=No	463	0	0	0	0
Air_out_1	Purchased Outside Alaska 1=Yes; 0=No	432	0.42	0	1	0.49
Travel_1	Total Amount Spent on Commercial Travel Within Alaska	669	112.73	0	5,000	405.76
Travel_1_A	1=Yes; 0=No	283	0.16	0	1	0.37
Travel_1_B	1=Yes; 0=No	283	0.07	0	1	0.26
Travel_1_C	1=Yes; 0=No	283	0.26	0	1	0.44
Travel_1_D	1=Yes; 0=No	283	0.04	0	1	0.19
Travel_1_E	1=Yes; 0=No	283	0.02	0	1	0.14
Travel_1_F	1=Yes; 0=No	283	0.01	0	1	0.08
Travel_out_1	Purchased Outside Alaska 1=Yes; 0=No	232	0.05	0	1	0.21
Process_1	Total Amount Spent on Fish Processing	671	81.31	0	2,000	167.41
Process_1_A	1=Yes; 0=No	385	0.17	0	1	0.37
Process_1_B	1=Yes; 0=No	385	0.09	0	1	0.28
Process_1_C	1=Yes; 0=No	385	0.37	0	1	0.48
Process_1_D	1=Yes; 0=No	385	0.02	0	1	0.13
Process_1_E	1=Yes; 0=No	385	0.01	0	1	0.09
Process_1_F	1=Yes; 0=No	385	0.00	0	1	0.05
Process_out_1	Purchased Outside Alaska 1=Yes; 0=No	281	0.01	0	1	0.10
Rentals_1	Total Amount Spent on Rentals (boats, auto, etc)	670	138.30	0	6,000	482.38
Rentals_1_A	1=Yes; 0=No	268	0.09	0	1	0.29
Rentals_1_B	1=Yes; 0=No	268	0.03	0	1	0.17
Rentals_1_C	1=Yes; 0=No	268	0.34	0	1	0.47
Rentals_1_D	1=Yes; 0=No	268	0.01	0	1	0.11
Rentals_1_E	1=Yes; 0=No	268	0.02	0	1	0.15
Rentals_1_F	1=Yes; 0=No	268	0	0	0	0
Rentals_out_1	Purchased Outside Alaska 1=Yes; 0=No	224	0.01	0	1	0.09
Derby_1	Total Amount Spent on Derby Tickets	669	2.91	0	300	15.61
Derby_1_A	1=Yes; 0=No	191	0.07	0	1	0.25
Derby_1_B	1=Yes; 0=No	191	0.02	0	1	0.14
Derby_1_C	1=Yes; 0=No	191	0.18	0	1	0.38
Derby_1_D	1=Yes; 0=No	191	0.01	0	1	0.07
Derby_1_E	1=Yes; 0=No	191	0.01	0	1	0.07
Derby_1_F	1=Yes; 0=No	191	0.01	0	1	0.07
Derby_out_1	Purchased Outside Alaska 1=Yes; 0=No	172	0	0	0	0
Dock_1	Total Amount Spent on Dockage	669	14.71	0	3,000	131.43
Dock_1_A	1=Yes; 0=No	183	0.03	0	1	0.18
Dock_1_B	1=Yes; 0=No	183	0.05	0	1	0.22
Dock_1_C	1=Yes; 0=No	183	0.16	0	1	0.37
Dock_1_D Dock_1_E	1=Yes; 0=No 1=Yes; 0=No	184 183	0.01 0.01	0	1	0.10 0.07
Dock_1_E Dock_1_F	1=Yes; 0=No	183	0.01	0	0	0.07
Dock_i_r Dock_out_1	Purchased Outside Alaska 1=Yes; 0=No	160	0	0	0	0
Ice_1	Total Amount Spent on Ice	670	5.57	0	200	16.29
Ice_1 Ice_1_A	1=Yes; 0=No	279	0.11	0	1	0.31
Ice_1_A Ice_1_B	1=Yes; 0=No	279	0.11	0	1	0.31
Ice_1_B	1=Yes; 0=No	279	0.09	0	1	0.20
Ice_1_D	1=Yes; 0=No	279	0.01	0	1	0.47
Ice_1_B	1=Yes; 0=No	279	0.01	0	1	0.00
100_1_L	1-100,0-110	L1/	0.00	V	'	0.10

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Appendix G3.-Page 4 of 13

Variable	Label	N	Mean	Min	Max	StdDev
Ice_1_F	1=Yes; 0=No	279	0.01	0	1	0.10
Ice_out_1	Purchased Outside Alaska 1=Yes; 0=No	221	0.00	0	1	0.07
Bait_1	Total Amount Spent on Bait	669	8.04	0	400	28.61
Bait_1_A	1=Yes; 0=No	246	0.13	0	1	0.34
Bait_1_B	1=Yes; 0=No	246	0.05	0	1	0.22
Bait_1_C	1=Yes; 0=No	246	0.24	0	1	0.43
Bait_1_D	1=Yes; 0=No	246	0	0	0	0
Bait_1_E	1=Yes; 0=No	246	0.02	0	1	0.13
Bait_1_F	1=Yes; 0=No	246	0.00	0	1	0.06
Bait_out_1	Purchased Outside Alaska 1=Yes; 0=No	198	0.01	0	1	0.10
Groceries_1	Total Amount Spent on Groceries, Food, and Liquor	669	213.34	0	5,000	385.83
Groceries_1_A	1=Yes; 0=No	590	0.24	0	1	0.43
Groceries_1_B	1=Yes; 0=No	590	0.14	0	1	0.35
Groceries_1_C	1=Yes; 0=No	590	0.44	0	1	0.50
Groceries_1_D	1=Yes; 0=No	590	0.03	0	1	0.17
Groceries_1_E	1=Yes; 0=No	982	0.04	0	1	0.20
Groceries_1_F	1=Yes; 0=No	589	0.02	0	1	0.13
Groceries_out_1	Purchased Outside Alaska 1=Yes; 0=No	396	0.02	0	1	0.13
Meals_1	Total Amount Spent on Restaurants, bars, and Take-Out	670	213.69	0	4,000	313.57
Meals_1_A	1=Yes; 0=No	610	0.25	0	1	0.43
Meals_1_B	1=Yes; 0=No	610	0.25	0	1	0.43
Meals_1_C	1=Yes; 0=No	610	0.45	0	1	0.50
Meals_1_D	1=Yes; 0=No	610	0.43	0	1	0.30
Meals_1_E	1=Yes; 0=No	610	0.03	0	1	0.17
Meals_1_F	1=Yes; 0=No	610	0.11	0	1	0.31
Meals_out_1	Purchased Outside Alaska 1=Yes; 0=No	411	0.02	0	1	0.13
Lodging_1	Total Amount Spent on Lodging	670	318.80	0	12,285	768.93
	1=Yes; 0=No	424	0.17	0	12,200	0.38
Lodging_1_A	1=Yes; 0=No	424	0.17	0	1	0.36
Lodging_1_B Lodging_1_C	1=Yes; 0=No	424	0.13	0	1	0.50
	1=Yes; 0=No	424	0.43	0	1	0.50
Lodging_1_D			0.04			0.16
Lodging_1_E	1=Yes; 0=No	424	0.11	0	1	0.31
Lodging_1_F	1=Yes; 0=No	424	0.02	0	1 1	0.14
Lodge_out_1	Purchased Outside Alaska 1=Yes; 0=No	305		0	-	
Gifts_1	Total Amount Spent on Souvenirs and Gifts	674	171.77	0	3,000	301.24
Gifts_1_A	1=Yes; 0=No	585	0.29	0	1	0.45
Gifts_1_B	1=Yes; 0=No	583 583	0.13	0	1	0.33
Gifts_1_C	1=Yes; 0=No		0.41	0	1	0.49
Gifts_1_D	1=Yes; 0=No	582	0.02 0.10	0	1	0.15 0.31
Gifts_1_E	1=Yes; 0=No	583		0	1	
Gifts_1_F	1=Yes; 0=No	583	0.02	0	1	0.14
Gifts_out_1	Purchased Outside Alaska 1=Yes; 0=No	528	0.00	0	1	0.06
Amusement_1	Total Amount Spent on Other Entertainment	669	53.28	0	1,000	132.42
Amusement_1_A	1=Yes; 0=No	299	0.15	0	1	0.36
Amusement_1_B	1=Yes; 0=No	299	0.10	0	1	0.30
Amusement_1_C	1=Yes; 0=No	299	0.33	0	1	0.47
Amusement_1_D	1=Yes; 0=No	299	0.03	0	1	0.18
Amusement_1_E	1=Yes; 0=No	299	0.09	0	1	0.28
Amusement_1_F	1=Yes; 0=No	299	0.01	0	1	0.12
Amusement_out_1	Purchased Outside Alaska 1=Yes; 0=No	228	0	0	0	0
Other_1	Total Amount Spent on Other	667	3.26	0	1,425	57.51
Other_1_A	1=Yes; 0=No	201	0.09	0	1	0.29
Other_1_B	1=Yes; 0=No	200	0.03	0	1	0.16
Other_1_C	1=Yes; 0=No	200	0.14	0	1	0.35
Other_1_D	1=Yes; 0=No	200	0.02	0	1	0.14

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Appendix G3.–Page 5 of 13

Variable	Label	N	Mean	Min	Max	StdDev
Other_1_E	1=Yes; 0=No	201	0.02	0	1	0.14
Other_1_F	1=Yes; 0=No	200	0	0	0	0
Other_out_1	Purchased Outside Alaska 1=Yes; 0=No	557	0.01	0	1	0.10
LastMo_JulOct	1=July; 2=August; 3=September; 4=October; 5=Did not fish	1571	2.26	1	5	1.50
tripdays_2	Total number of days in last trip to Alaska	1253	14.77	0	180	19.60
a.pudyo_z	Number of days fishing in Alaska between July 1st and Oct. 31st,	1200		Ü	.00	17100
fishdays_2	2007	1253	5.65	0	90	8.14
commit_2	1=Yes; 0=No	1251	0.51	0	1	0.50
fish_type_2	1=Rod&Reel 2=Shellfishing	1248	1.00	1	2	0.07
water_type_2	1=In Freshwater; 2=In Saltwater; 3=In Both	1246	1.87	1	3	0.73
charter_2	1=Yes; 0=No	1252	0.66	0	1	0.73
trip2_A	Region A; 1=Yes; 0=No	1307	0.32	0	1	0.40
trip2_B	Region B; 1=Yes; 0=No	1307	0.32	0	1	0.47
trip2_C	Region C; 1=Yes; 0=No	1307	0.21	0	1	0.41
·	9	1309	0.44	0	1	0.30
trip2_D	Region D; 1=Yes; 0=No	1307	0.06			0.20
trip2_E	Region E; 1=Yes; 0=No			0	1	
trip2_F	Region F; 1=Yes; 0=No	1308	0.03	0	1	0.17
King_2	King Salmon 1=Yes; 0=No	1327	0.41	0	1	0.49
Silver_2	Silver Salmon 1=Yes; 0=No	1327	0.55	0	1	0.50
Red_2	Red Salmon 1=Yes; 0=No	1327	0.29	0	1	0.45
OtherSalm_2	Other Salmon 1=Yes; 0=No	1328	0.19	0	1	0.39
OtherFresh_2	Other Freshwater 1=Yes; 0=No	1327	0.10	0	1	0.30
Steel_2	Steelhead 1=Yes; 0=No	1327	0.04	0	1	0.20
Trout_2	Trout 1=Yes; 0=No	1327	0.15	0	1	0.36
Halibut_2	Halibut 1=Yes; 0=No	1327	0.53	0	1	0.50
Shell_2	Shellfish 1=Yes; 0=No	1327	0.04	0	1	0.20
PtherSalt_2	Other Saltwater 1=Yes; 0=No	1328	0.14	0	1	0.34
pkg_2	Total Cost of Pre-arranged cruise, package tour, or charter trip	991	1,989.10	0	60,000	3,432.90
pkg_2_A	Visited 1=Yes; 0=No	598	0.41	0	1	0.49
pkg_2_B	Visited 1=Yes; 0=No	597	0.25	0	1	0.43
pkg_2_C	Visited 1=Yes; 0=No	597	0.39	0	1	0.49
pkg_2_D	Visited 1=Yes; 0=No	597	0.07	0	1	0.26
pkg_2_E	Visited 1=Yes; 0=No	597	0.11	0	1	0.31
pkg_2_F	Visited 1=Yes; 0=No	600	0.04	0	1	0.20
pkg_2_air	Transportation to/from Alaska 1=Yes; 0=No	829	0.32	0	1	0.47
pkg_2_trans	Transportation in Alaska 1=Yes; 0=No	817	0.41	0	1	0.49
pkg_2_guide	Guides &/or charter boat 1=Yes; 0=No	835	0.52	0	1	0.50
pkg_2_lodge	Lodging 1=Yes; 0=No	833	0.53	0	1	0.50
pkg_2_food	Meals 1=Yes; 0=No	820	0.44	0	1	0.50
pkg_2_lic	Fishing License 1=Yes; 0=No	820	0.26	0	1	0.44
Lic_2	Total Amount Spent on License and Stamp	1190	75.92	0	1,000	89.83
Lic_2_A	1=Yes; 0=No	919	0.26	0	1	0.44
Lic_2_B	1=Yes; 0=No	918	0.13	0	1	0.34
Lic_2_C	1=Yes; 0=No	918	0.45	0	1	0.50
 Lic_2_D	1=Yes; 0=No	918	0.04	0	1	0.20
Lic_2_E	1=Yes: 0=No	919	0.04	0	1	0.19
Lic_2_F	1=Yes; 0=No	918	0.01	0	1	0.11
Lic_2_out	Purchased Outside Alaska 1=Yes; 0=No	610	0.14	0	1	0.35
Fuel_2	Total Amount Spent on Fuel	1191	217.72	0	10,000	556.09
Fuel_2_A	1=Yes: 0=No	666	0.17	0	1	0.38
Fuel_2_B	1=Yes; 0=No	666	0.24	0	l i	0.42
Fuel_2_C	1=Yes; 0=No	666	0.62	0	l 1	0.49
Fuel_2_D	1=Yes; 0=No	667	0.04	0	l i	0.47
Fuel_2_E	1=Yes; 0=No	665	0.15	0	1	0.35
Fuel_2_F	1=Yes; 0=No	666	0.13	0	1	0.33
. ~~!!	1	550	3.00	,	-	5.10

**NOTE: Summary statistics of raw survey data.** The mean values reported here do not necessarily represent average spending by all Alaska anglers; the standard deviations do to not apply to final spending estimates. This table includes raw survey data that underwent numerous transformations to produce the final study estimates.

Appendix G3.–Page 6 of 13

Variable	Label	N	Mean	Min	Max	StdDev
Fuel_out_2	Purchased Outside Alaska 1=Yes; 0=No	444	0.06	0	1	0.24
Guide_2	Total Amount Spent on Guide	1190	340.69	0	9,300	822.83
Guide_2_A	1=Yes; 0=No	528	0.23	0	1	0.42
Guide_2_B	1=Yes; 0=No	528	0.20	0	1	0.40
Guide_2_C	1=Yes; 0=No	528	0.43	0	1	0.50
Guide_2_D	1=Yes; 0=No	528	0.04	0	1	0.20
Guide_2_E	1=Yes; 0=No	528	0.07	0	1	0.26
Guide_2_F	1=Yes; 0=No	528	0.01	0	1	0.11
Guide_out_2	Purchased Outside Alaska 1=Yes; 0=No	326	0.05	0	1	0.22
Air_2	Total Amount Spent on Airfare	1191	600.52	0	8,000	738.41
Air_2_A	1=Yes; 0=No	637	0.21	0	1	0.41
Air_2_B	1=Yes; 0=No	636	0.04	0	1	0.21
Air_2_C	1=Yes; 0=No	636	0.27	0	1	0.45
Air_2_D	1=Yes; 0=No	636	0.03	0	1	0.17
Air_2_E	1=Yes; 0=No	636	0.02	0	1	0.14
Air_2_F	1=Yes; 0=No	637	0.01	0	1	0.09
Air_out_2	Purchased Outside Alaska 1=Yes; 0=No	659	0.66	0	1	0.47
Travel_2	Total Amount Spent on Commercial Travel Within Alaska	1190	86.31	0	7,000	339.75
Travel_2_A	1=Yes: 0=No	318	0.31	0	1	0.46
Travel_2_B	1=Yes; 0=No	318	0.10	0	1	0.31
Travel_2_C	1=Yes; 0=No	318	0.32	0	1	0.47
Travel_2_D	1=Yes; 0=No	318	0.07	0	1	0.47
Travel_2_E	1=Yes; 0=No	318	0.07	0	1	0.23
Travel_2_F	1=Yes; 0=No	318	0.04	0	1	0.21
Travel_out_2	Purchased Outside Alaska 1=Yes; 0=No	214	0.02	0	1	0.13
Process 2	Total Amount Spent on Fish Processing	1190	90.30	0	2,000	173.19
Process_2_A	1=Yes; 0=No	554	0.23	0	1	0.42
Process_2_B	1=Yes; 0=No	554	0.23	0	1	0.42
Process_2_C	1=Yes; 0=No	553	0.17	0	1	0.40
Process_2_D	1=Yes; 0=No	554	0.44	0	1	0.30
Process_2_E	1=Yes; 0=No	554	0.03	0	1	0.17
Process_2_F	1=Yes; 0=No	554	0.01	0	0	0.00
Process_out_2	Purchased Outside Alaska 1=Yes; 0=No	347	0.00	0	1	0.05
Rentals_2	Total Amount Spent on Rentals (boats, auto, etc)	1190	184.74	0	10,000	551.08
Rentals_2_A	1=Yes; 0=No	353	0.10	0	10,000	0.30
Rentals_2_B	1=Yes; 0=No	353	0.10	0	1	0.30
Rentals_2_C	1=Yes; 0=No	353	0.11	0	1	0.50
Rentals_2_D	1=Yes; 0=No	353	0.03	0	1	0.30
Rentals_2_E	1=Yes; 0=No	353	0.05	0	1	0.10
Rentals_2_F	1=Yes; 0=No	353	0.03	0	1	0.21
Rentals_out_2	Purchased Outside Alaska 1=Yes; 0=No	243	0.01	0	1	0.11
Derby_2	Total Amount Spent on Derby Tickets	1190	1.87	0	200	10.17
Derby_2 Derby_2_A	1=Yes; 0=No	135	0.04	0	1	0.19
Derby_2_A Derby_2_B	1=Yes; 0=No	135	0.04	0	1	0.19
Derby_2_B Derby_2_C	1=Yes; 0=No		0.16	0		0.38
	1=Yes; 0=No	135 135	0.33	0	1 1	0.47
Derby_2_D	1=Yes; 0=No	134		0		0.09
Derby_2_E			0		0	
Derby_2_F	1=Yes; 0=No Purchased Outside Alaska 1=Yes; 0=No	135 107	0.01 0.01	0	1 1	0.12 0.10
Derby_out_2				0		
Dock_2	Total Amount Spent on Dockage	1190	5.96	0	600	36.05
Dock_2_A	1=Yes; 0=No	144	0.10	0	1	0.30
Dock_2_B	1=Yes; 0=No	144	0.09	0	1	0.29
Dock_2_C	1=Yes; 0=No	144	0.35	0	1	0.48
Dock_2_D	1=Yes; 0=No	144	0.02	0	1	0.14
Dock_2_E	1=Yes; 0=No	144	0.01	0	1	0.08

**NOTE: Summary statistics of raw survey data.** The mean values reported here do not necessarily represent average spending by all Alaska anglers; the standard deviations do to not apply to final spending estimates. This table includes raw survey data that underwent numerous transformations to produce the final study estimates.

Appendix G3.–Page 7 of 13

Dock_Qut_Z   Purchased Outside Alaska 1-Yes; 0=No   144   001   0	Variable	Label	N	Mean	Min	Max	StdDev
Ice_2	Dock_2_F	1=Yes; 0=No	144	0.01	0	1	0.08
Ice_2_A	Dock_out_2	Purchased Outside Alaska 1=Yes; 0=No	120	0	0	0	0
Ice 2_B	lce_2	Total Amount Spent on Ice	1190	7.61	0	550	24.70
IR-2_C	Ice_2_A	1=Yes; 0=No	323	0.13	0	1	0.33
Ice_2_D	Ice_2_B	1=Yes; 0=No	323	0.20	0	1	0.40
Ice_2_E	Ice_2_C	1=Yes; 0=No	323	0.53	0	1	0.50
Ice_2LF	Ice_2_D	1=Yes; 0=No	323	0.02	0	1	0.12
Ice_out_2	Ice_2_E	1=Yes; 0=No	323	0.08	0	1	0.27
Ice, out. 2	Ice_2_F	1=Yes; 0=No	323	0.01	0	1	0.11
Batt 2         Total Amount Spent on Bait         1189         8.04         0         8.00         33.64           Balt 2_B         1=Yes; 0=No         229         0.24         0         1         0.43           Balt 2_C         1=Yes; 0=No         229         0.33         0         1         0.36           Balt 2_E         1=Yes; 0=No         229         0.01         0         1         0.09           Balt 2_E         1=Yes; 0=No         229         0.02         0         1         0.09           Balt_QLE         1=Yes; 0=No         229         0         0         0         0         0           Balt_Out_2         Purchased Outside Alaska 1=Yes; 0=No         161         0.01         0         1         0.08           Groceries_2_A         1=Yes; 0=No         882         0.19         0         1         0.08           Groceries_2_A         1=Yes; 0=No         882         0.19         0         1         0.39           Groceries_2_D         1=Yes; 0=No         882         0.54         0         1         0.22           Groceries_2_D         1=Yes; 0=No         882         0.05         0         1         0.22 <t< td=""><td></td><td>Purchased Outside Alaska 1=Yes; 0=No</td><td>215</td><td>0.01</td><td>0</td><td>1</td><td>0.10</td></t<>		Purchased Outside Alaska 1=Yes; 0=No	215	0.01	0	1	0.10
Bail 2_A         1-Yes; 0-No         229         0.24         0         1         0.43           Bail 2_B         1-Yes; 0-No         229         0.15         0         1         0.36           Bail 2_D         1-Yes; 0-No         229         0.01         0         1         0.47           Bail 2_LF         1-Yes; 0-No         229         0.02         0         1         0.09           Bail 2_LF         1-Yes; 0-No         229         0.02         0         0         0         0           Bail 2_LF         1-Yes; 0-No         161         0.01         0         1         0.03           Groceries 2_D         1-Yes; 0-No         161         0.01         0         0         0           Groceries 2_D         1-Yes; 0-No         882         0.24         0         1         0.39           Groceries 2_D         1-Yes; 0-No         882         0.54         0         1         0.50           Groceries 2_LF         1-Yes; 0-No         882         0.54         0         1         0.22           Groceries 2_LF         1-Yes; 0-No         882         0.04         0         1         0.22           Groceries 2_LF         1	Bait_2		1189	8.04	0	800	33.64
Bail_2_C			229	0.24		1	
Bail_2_E	Bait_2_B	1=Yes; 0=No	229	0.15	0	1	0.36
Ball_2_E	Bait_2_C	1=Yes; 0=No	229	0.33	0	1	0.47
Bail_Z_F		1=Yes; 0=No	229	0.01	0	1	0.09
Bail_Out_2					0		
Ball_Out_2         Purchased Outside Alaska 1=Yes; 0=No         161         0.01         0         1         0.08           Groceries_2         A         1=Yes; 0=No         882         0.24         0         1         0.43           Groceries_2 A         1=Yes; 0=No         882         0.19         0         1         0.39           Groceries_2 B         1=Yes; 0=No         882         0.54         0         1         0.50           Groceries_2 D         1=Yes; 0=No         882         0.54         0         1         0.50           Groceries_2 D         1=Yes; 0=No         882         0.05         0         1         0.20           Groceries_2 D         1=Yes; 0=No         1090         0.04         0         1         0.20           Groceries_2 D         1=Yes; 0=No         882         0.02         0         1         0.14           Groceries_2 D         1=Yes; 0=No         882         0.02         0         1         0.14           Groceries_2 D         1=Yes; 0=No         882         0.02         0         1         0.14           Groceries_2 D         1=Yes; 0=No         911         0.02         0         1         0.14		1=Yes; 0=No	229	0	0	0	0
Groceries_2_A   Total Amount Spent on Groceries, Food, and Liquor   1919   215.13   0   5,340   356.49   Groceries_2_A   1=Yes_0=No   882   0.24   0   1   0.43   0.39   Groceries_2_B   1=Yes_0=No   882   0.19   0   1   0.39   Groceries_2_B   1=Yes_0=No   882   0.54   0   1   0.50   0.39   Groceries_2_B   1=Yes_0=No   882   0.55   0   1   0.22   0.55   0   1   0.22   0.55   0   0   0.22   0.55   0   0   0.22   0.55   0   0   0.55   0   0   0   0   0   0   0   0   0							0.08
Groceries_2_A					0	5.340	
Groceries_2_B		•	882				
Groceries_2_C							
Groceries_2_D						1	
Groceries_2_E         1=Yes; 0=No         1090         0.04         0         1         0.20           Groceries_2_F         1=Yes; 0=No         882         0.02         0         1         0.14           Groceries_out_2         Purchased Outside Alaska 1=Yes; 0=No         556         0.04         0         1         0.19           Meals_2         Total Amount Spent on Restaurants, bars, and Take-Out         1191         218.48         0         3,000         306.82           Meals_2_B         1=Yes; 0=No         911         0.27         0         1         0.44           Meals_2_B         1=Yes; 0=No         911         0.57         0         1         0.42           Meals_2_D         1=Yes; 0=No         911         0.57         0         1         0.50           Meals_2_F         1=Yes; 0=No         911         0.05         0         1         0.22           Meals_2_F         1=Yes; 0=No         911         0.02         0         1         0.34           Meals_2_F         1=Yes; 0=No         911         0.02         0         1         0.15           Lodging_2_A         1=Yes; 0=No         611         0.25         0         1         0.33							
Groceries_2_F							
Groceries_out_2   Purchased Outside Alaska 1=Yes; 0=No							
Meals_2 A         Total Amount Spent on Restaurants, bars, and Take-Out         1191         218.48         0         3,000         306.82           Meals_2 B         1=Yes; 0=No         911         0.27         0         1         0.44           Meals_2 B         1=Yes; 0=No         911         0.23         0         1         0.42           Meals_2 C         1=Yes; 0=No         911         0.57         0         1         0.50           Meals_2 D         1=Yes; 0=No         911         0.05         0         1         0.22           Meals_2 E         1=Yes; 0=No         911         0.05         0         1         0.22           Meals_2 F         1=Yes; 0=No         911         0.02         0         1         0.34           Meals_2 P         1=Yes; 0=No         911         0.02         0         1         0.34           Meals_2 D         1=Yes; 0=No         911         0.02         0         1         0.34           Meals_2 P         1=Yes; 0=No         911         0.02         0         1         0.14           Meals_2 P         1=Yes; 0=No         611         0.02         0         1         0.15           Lodging_2 P <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>							
Meals_2_A         1=Yes; 0=No         911         0.27         0         1         0.44           Meals_2_B         1=Yes; 0=No         911         0.23         0         1         0.42           Meals_2_C         1=Yes; 0=No         911         0.57         0         1         0.42           Meals_2_D         1=Yes; 0=No         911         0.05         0         1         0.50           Meals_2_E         1=Yes; 0=No         911         0.05         0         1         0.34           Meals_2_E         1=Yes; 0=No         911         0.02         0         1         0.34           Meals_out_2         Purchased Outside Alaska 1=Yes; 0=No         911         0.02         0         1         0.14           Meals_out_2         Purchased Outside Alaska 1=Yes; 0=No         556         0.02         0         1         0.14           Lodging_2_A         1=Yes; 0=No         611         0.18         0         1         0.39           Lodging_2_B         1=Yes; 0=No         611         0.25         0         1         0.43           Lodging_2_B         1=Yes; 0=No         611         0.06         0         1         0.23           Lodgi						-	
Meals_2_B         1=Yes; 0=No         911         0.23         0         1         0.42           Meals_2_C         1=Yes; 0=No         911         0.57         0         1         0.50           Meals_2_D         1=Yes; 0=No         911         0.05         0         1         0.50           Meals_2_E         1=Yes; 0=No         911         0.05         0         1         0.22           Meals_2_F         1=Yes; 0=No         911         0.02         0         1         0.14           Meals_2_F         1=Yes; 0=No         911         0.02         0         1         0.14           Meals_2_F         1=Yes; 0=No         556         0.02         0         1         0.15           Lodging_2_A         1=Yes; 0=No         611         0.18         0         1         0.39           Lodging_2_B         1=Yes; 0=No         611         0.25         0         1         0.43           Lodging_2_C         1=Yes; 0=No         611         0.55         0         1         0.50           Lodging_2_E         1=Yes; 0=No         611         0.06         0         1         0.23           Lodging_2_E         1=Yes; 0=No <th< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td></th<>							
Meals_2_C         1=Yes; 0=No         911         0.57         0         1         0.50           Meals_2_D         1=Yes; 0=No         911         0.05         0         1         0.22           Meals_2_E         1=Yes; 0=No         911         0.03         0         1         0.24           Meals_2_F         1=Yes; 0=No         911         0.02         0         1         0.14           Meals_out_2         Purchased Outside Alaska 1=Yes; 0=No         556         0.02         0         1         0.15           Lodging_2_A         Total Amount Spent on Lodging         1190         323.28         0         10,500         696.25           Lodging_2_A         1=Yes; 0=No         611         0.18         0         1         0.39           Lodging_2_B         1=Yes; 0=No         611         0.25         0         1         0.50           Lodging_2_C         1=Yes; 0=No         611         0.06         0         1         0.23           Lodging_2_F         1=Yes; 0=No         611         0.06         0         1         0.23           Lodging_2_F         1=Yes; 0=No         611         0.04         0         1         0.25 <t< td=""><td></td><td></td><td></td><td></td><td></td><td>-</td><td></td></t<>						-	
Meals_2_D         1=Yes; 0=No         911         0.05         0         1         0.22           Meals_2_E         1=Yes; 0=No         911         0.13         0         1         0.34           Meals_2_F         1=Yes; 0=No         911         0.02         0         1         0.34           Meals_out_2         Purchased Outside Alaska 1=Yes; 0=No         556         0.02         0         1         0.15           Lodging_2_A         1=Yes; 0=No         611         0.18         0         1         0.39           Lodging_2_B         1=Yes; 0=No         611         0.25         0         1         0.43           Lodging_2_D         1=Yes; 0=No         611         0.05         0         1         0.23           Lodging_2_B         1=Yes; 0=No         611         0.06         0         1         0.23           Lodging_2_B         1=Yes; 0=No         611         0.06         0         1         0.23           Lodging_2_F         1=Yes; 0=No         611         0.04         0         1         0.23           Lodging_2_F         1=Yes; 0=No         395         0.04         0         1         0.20           Gifts_2_B         <							
Meals_2_E         1=Yes; 0=No         911         0.13         0         1         0.34           Meals_2_F         1=Yes; 0=No         911         0.02         0         1         0.14           Meals_out_2         Purchased Outside Alaska 1=Yes; 0=No         556         0.02         0         1         0.15           Lodging_2_B         Total Amount Spent on Lodging         1190         323.28         0         10,500         696.25           Lodging_2_B         1=Yes; 0=No         611         0.18         0         1         0.39           Lodging_2_B         1=Yes; 0=No         611         0.25         0         1         0.43           Lodging_2_D         1=Yes; 0=No         611         0.06         0         1         0.20           Lodging_2_F         1=Yes; 0=No         611         0.06         0         1         0.35           Lodge_out_2         Purchased Outside Alaska 1=Yes; 0=No         611         0.14         0         1         0.20           Gifts_2_A         1=Yes; 0=No         395         0.04         0         1         0.20           Gifts_2_B         1=Yes; 0=No         815         0.30         0         1         0.46							
Meals_2_F         1=Yes; 0=No         911         0.02         0         1         0.14           Meals_out_2         Purchased Outside Alaska 1=Yes; 0=No         556         0.02         0         1         0.15           Lodging_2_A         1=Yes; 0=No         611         0.18         0         1         0.39           Lodging_2_B         1=Yes; 0=No         611         0.25         0         1         0.50           Lodging_2_D         1=Yes; 0=No         611         0.05         0         1         0.23           Lodging_2_B         1=Yes; 0=No         611         0.06         0         1         0.50           Lodging_2_D         1=Yes; 0=No         611         0.06         0         1         0.23           Lodging_2_F         1=Yes; 0=No         611         0.03         0         1         0.35           Lodge_out_2         Purchased Outside Alaska 1=Yes; 0=No         395         0.04         0         1         0.20           Gifts_2_A         1=Yes; 0=No         815         0.30         0         1         0.46           Gifts_2_B         1=Yes; 0=No         815         0.20         0         1         0.46 <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td<>							
Meals_out_2         Purchased Outside Alaska 1=Yes; 0=No         556         0.02         0         1         0.15           Lodging_2         Total Amount Spent on Lodging         1190         323.28         0         10,500         696.25           Lodging_2_A         1=Yes; 0=No         611         0.18         0         1         0.39           Lodging_2_B         1=Yes; 0=No         611         0.25         0         1         0.43           Lodging_2_C         1=Yes; 0=No         611         0.55         0         1         0.50           Lodging_2_B         1=Yes; 0=No         611         0.06         0         1         0.23           Lodging_2_F         1=Yes; 0=No         611         0.03         0         1         0.25           Lodging_2_F         1=Yes; 0=No         611         0.03         0         1         0.20           Gifts_2         Total Amount Spent on Souvenirs and Gifts         1190         194.07         0         7,000         414.51           Gifts_2_B         1=Yes; 0=No         815         0.20         0         1         0.46           Gifts_2_B         1=Yes; 0=No         815         0.53         0         1         0.							
Lodging_2         Total Amount Spent on Lodging         1190         323.28         0         10,500         696.25           Lodging_2_A         1=Yes; 0=No         611         0.18         0         1         0.39           Lodging_2_B         1=Yes; 0=No         611         0.25         0         1         0.43           Lodging_2_C         1=Yes; 0=No         611         0.55         0         1         0.50           Lodging_2_E         1=Yes; 0=No         611         0.06         0         1         0.23           Lodging_2_F         1=Yes; 0=No         611         0.03         0         1         0.35           Lodge_out_2         Purchased Outside Alaska 1=Yes; 0=No         395         0.04         0         1         0.20           Gifts_2_A         1=Yes; 0=No         815         0.30         0         1         0.46           Gifts_2_B         1=Yes; 0=No         815         0.30         0         1         0.46           Gifts_2_B         1=Yes; 0=No         815         0.20         0         1         0.40           Gifts_2_C         1=Yes; 0=No         815         0.05         0         1         0.21							
Lodging_2_A       1=Yes; 0=No       611       0.18       0       1       0.39         Lodging_2_B       1=Yes; 0=No       611       0.25       0       1       0.43         Lodging_2_C       1=Yes; 0=No       611       0.55       0       1       0.50         Lodging_2_D       1=Yes; 0=No       611       0.06       0       1       0.23         Lodging_2_F       1=Yes; 0=No       611       0.03       0       1       0.35         Lodge_out_2       Purchased Outside Alaska 1=Yes; 0=No       611       0.03       0       1       0.20         Gifts_2_A       Total Amount Spent on Souvenirs and Gifts       1190       194.07       0       7,000       414.51         Gifts_2_B       1=Yes; 0=No       815       0.30       0       1       0.46         Gifts_2_B       1=Yes; 0=No       815       0.53       0       1       0.40         Gifts_2_D       1=Yes; 0=No       815       0.53       0       1       0.50         Gifts_2_E       1=Yes; 0=No       815       0.05       0       1       0.33         Gifts_0_t_2_E       1=Yes; 0=No       815       0.02       0       1       0.31 </td <td></td> <td></td> <td></td> <td></td> <td></td> <td>10.500</td> <td></td>						10.500	
Lodging_2_B       1=Yes; 0=No       611       0.25       0       1       0.43         Lodging_2_C       1=Yes; 0=No       611       0.55       0       1       0.50         Lodging_2_D       1=Yes; 0=No       611       0.06       0       1       0.23         Lodging_2_E       1=Yes; 0=No       611       0.14       0       1       0.35         Lodge_out_2       Purchased Outside Alaska 1=Yes; 0=No       611       0.03       0       1       0.16         Lodge_out_2       Purchased Outside Alaska 1=Yes; 0=No       395       0.04       0       1       0.20         Gifts_2       Total Amount Spent on Souvenirs and Gifts       1190       194.07       0       7,000       414.51         Gifts_2_A       1=Yes; 0=No       815       0.30       0       1       0.46         Gifts_2_B       1=Yes; 0=No       815       0.20       0       1       0.40         Gifts_2_D       1=Yes; 0=No       815       0.05       0       1       0.50         Gifts_2_D       1=Yes; 0=No       815       0.05       0       1       0.21         Gifts_2_E       1=Yes; 0=No       815       0.02       0       1 <td></td> <td></td> <td>611</td> <td></td> <td></td> <td>-</td> <td></td>			611			-	
Lodging_2_C       1=Yes; 0=No       611       0.55       0       1       0.50         Lodging_2_D       1=Yes; 0=No       611       0.06       0       1       0.23         Lodging_2_E       1=Yes; 0=No       611       0.14       0       1       0.35         Lodging_2_F       1=Yes; 0=No       611       0.03       0       1       0.16         Lodge_out_2       Purchased Outside Alaska 1=Yes; 0=No       395       0.04       0       1       0.20         Gifts_2       Total Amount Spent on Souvenirs and Gifts       1190       194.07       0       7,000       414.51         Gifts_2_A       1=Yes; 0=No       815       0.30       0       1       0.46         Gifts_2_B       1=Yes; 0=No       815       0.20       0       1       0.40         Gifts_2_C       1=Yes; 0=No       815       0.53       0       1       0.50         Gifts_2_D       1=Yes; 0=No       815       0.05       0       1       0.21         Gifts_2_D       1=Yes; 0=No       815       0.05       0       1       0.21         Gifts_0_t_2_E       1=Yes; 0=No       815       0.05       0       1       0.33						1	
Lodging_2_D       1=Yes; 0=No       611       0.06       0       1       0.23         Lodging_2_E       1=Yes; 0=No       611       0.14       0       1       0.35         Lodging_2_F       1=Yes; 0=No       611       0.03       0       1       0.16         Lodge_out_2       Purchased Outside Alaska 1=Yes; 0=No       395       0.04       0       1       0.20         Gifts_2       Total Amount Spent on Souvenirs and Gifts       1190       194.07       0       7,000       414.51         Gifts_2_A       1=Yes; 0=No       815       0.30       0       1       0.46         Gifts_2_B       1=Yes; 0=No       815       0.20       0       1       0.40         Gifts_2_C       1=Yes; 0=No       815       0.53       0       1       0.50         Gifts_2_D       1=Yes; 0=No       815       0.05       0       1       0.21         Gifts_2_E       1=Yes; 0=No       815       0.12       0       1       0.33         Gifts_2_F       1=Yes; 0=No       814       0.02       0       1       0.15         Gifts_0_L_2       Purchased Outside Alaska 1=Yes; 0=No       746       0.01       0       1						1	
Lodging_2_E       1=Yes; 0=No       611       0.14       0       1       0.35         Lodging_2_F       1=Yes; 0=No       611       0.03       0       1       0.16         Lodge_out_2       Purchased Outside Alaska 1=Yes; 0=No       395       0.04       0       1       0.20         Gifts_2       Total Amount Spent on Souvenirs and Gifts       1190       194.07       0       7,000       414.51         Gifts_2_A       1=Yes; 0=No       815       0.30       0       1       0.46         Gifts_2_B       1=Yes; 0=No       815       0.20       0       1       0.40         Gifts_2_C       1=Yes; 0=No       815       0.53       0       1       0.50         Gifts_2_B       1=Yes; 0=No       815       0.05       0       1       0.21         Gifts_2_E       1=Yes; 0=No       815       0.12       0       1       0.33         Gifts_0ut_2       Purchased Outside Alaska 1=Yes; 0=No       746       0.01       0       1       0.10         Amusement_2_A       1=Yes; 0=No       314       0.19       0       1       0.39         Amusement_2_B       1=Yes; 0=No       314       0.17       0			611	0.06	0	1	
Lodging_2_F       1=Yes; 0=No       611       0.03       0       1       0.16         Lodge_out_2       Purchased Outside Alaska 1=Yes; 0=No       395       0.04       0       1       0.20         Gifts_2       Total Amount Spent on Souvenirs and Gifts       1190       194.07       0       7,000       414.51         Gifts_2_A       1=Yes; 0=No       815       0.30       0       1       0.46         Gifts_2_B       1=Yes; 0=No       815       0.20       0       1       0.40         Gifts_2_C       1=Yes; 0=No       815       0.53       0       1       0.50         Gifts_2_B       1=Yes; 0=No       815       0.05       0       1       0.21         Gifts_2_E       1=Yes; 0=No       815       0.12       0       1       0.33         Gifts_0ut_2       Purchased Outside Alaska 1=Yes; 0=No       746       0.01       0       1       0.10         Amusement_2       Total Amount Spent on Other Entertainment       1190       52.93       0       3,000       176.50         Amusement_2_B       1=Yes; 0=No       314       0.17       0       1       0.37         Amusement_2_C       1=Yes; 0=No       314 <td< td=""><td></td><td></td><td>611</td><td></td><td>0</td><td>1</td><td></td></td<>			611		0	1	
Lodge_out_2         Purchased Outside Alaska 1=Yes; 0=No         395         0.04         0         1         0.20           Gifts_2         Total Amount Spent on Souvenirs and Gifts         1190         194.07         0         7,000         414.51           Gifts_2_A         1=Yes; 0=No         815         0.30         0         1         0.46           Gifts_2_B         1=Yes; 0=No         815         0.20         0         1         0.40           Gifts_2_C         1=Yes; 0=No         815         0.53         0         1         0.50           Gifts_2_D         1=Yes; 0=No         815         0.05         0         1         0.21           Gifts_2_E         1=Yes; 0=No         815         0.12         0         1         0.33           Gifts_0_L_F         1=Yes; 0=No         814         0.02         0         1         0.15           Gifts_out_2         Purchased Outside Alaska 1=Yes; 0=No         746         0.01         0         1         0.10           Amusement_2_A         1=Yes; 0=No         314         0.19         0         1         0.39           Amusement_2_B         1=Yes; 0=No         314         0.17         0         1         0.37<			611	0.03		1	
Gifts_2       Total Amount Spent on Souvenirs and Gifts       1190       194.07       0       7,000       414.51         Gifts_2_A       1=Yes; 0=No       815       0.30       0       1       0.46         Gifts_2_B       1=Yes; 0=No       815       0.20       0       1       0.40         Gifts_2_C       1=Yes; 0=No       815       0.53       0       1       0.50         Gifts_2_D       1=Yes; 0=No       815       0.05       0       1       0.21         Gifts_2_E       1=Yes; 0=No       815       0.12       0       1       0.33         Gifts_0ut_2       1=Yes; 0=No       814       0.02       0       1       0.15         Gifts_out_2       Purchased Outside Alaska 1=Yes; 0=No       746       0.01       0       1       0.10         Amusement_2_A       1=Yes; 0=No       314       0.19       0       3,000       176.50         Amusement_2_B       1=Yes; 0=No       314       0.17       0       1       0.37         Amusement_2_C       1=Yes; 0=No       314       0.47       0       1       0.50						1	
Gifts_2_A       1=Yes; 0=No       815       0.30       0       1       0.46         Gifts_2_B       1=Yes; 0=No       815       0.20       0       1       0.40         Gifts_2_C       1=Yes; 0=No       815       0.53       0       1       0.50         Gifts_2_D       1=Yes; 0=No       815       0.05       0       1       0.21         Gifts_2_E       1=Yes; 0=No       815       0.12       0       1       0.33         Gifts_0_E       1=Yes; 0=No       814       0.02       0       1       0.15         Gifts_out_2       Purchased Outside Alaska 1=Yes; 0=No       746       0.01       0       1       0.10         Amusement_2       Total Amount Spent on Other Entertainment       1190       52.93       0       3,000       176.50         Amusement_2_A       1=Yes; 0=No       314       0.19       0       1       0.37         Amusement_2_B       1=Yes; 0=No       314       0.17       0       1       0.37         Amusement_2_C       1=Yes; 0=No       314       0.47       0       1       0.50	Gifts 2	Total Amount Spent on Souvenirs and Gifts	1190	194.07	0	7,000	414.51
Gifts_2_B       1=Yes; 0=No       815       0.20       0       1       0.40         Gifts_2_C       1=Yes; 0=No       815       0.53       0       1       0.50         Gifts_2_D       1=Yes; 0=No       815       0.05       0       1       0.21         Gifts_2_E       1=Yes; 0=No       815       0.12       0       1       0.33         Gifts_0ut_2       Purchased Outside Alaska 1=Yes; 0=No       746       0.01       0       1       0.10         Amusement_2       Total Amount Spent on Other Entertainment       1190       52.93       0       3,000       176.50         Amusement_2_A       1=Yes; 0=No       314       0.19       0       1       0.37         Amusement_2_B       1=Yes; 0=No       314       0.17       0       1       0.37         Amusement_2_C       1=Yes; 0=No       314       0.47       0       1       0.50							
Gifts_2_C       1=Yes; 0=No       815       0.53       0       1       0.50         Gifts_2_D       1=Yes; 0=No       815       0.05       0       1       0.21         Gifts_2_E       1=Yes; 0=No       815       0.12       0       1       0.33         Gifts_0_F       1=Yes; 0=No       814       0.02       0       1       0.15         Gifts_out_2       Purchased Outside Alaska 1=Yes; 0=No       746       0.01       0       1       0.10         Amusement_2       Total Amount Spent on Other Entertainment       1190       52.93       0       3,000       176.50         Amusement_2_A       1=Yes; 0=No       314       0.19       0       1       0.39         Amusement_2_B       1=Yes; 0=No       314       0.17       0       1       0.37         Amusement_2_C       1=Yes; 0=No       314       0.47       0       1       0.50		1=Yes; 0=No			0	1	
Gifts_2_D       1=Yes; 0=No       815       0.05       0       1       0.21         Gifts_2_E       1=Yes; 0=No       815       0.12       0       1       0.33         Gifts_2_F       1=Yes; 0=No       814       0.02       0       1       0.15         Gifts_out_2       Purchased Outside Alaska 1=Yes; 0=No       746       0.01       0       1       0.10         Amusement_2       Total Amount Spent on Other Entertainment       1190       52.93       0       3,000       176.50         Amusement_2_A       1=Yes; 0=No       314       0.19       0       1       0.39         Amusement_2_B       1=Yes; 0=No       314       0.17       0       1       0.37         Amusement_2_C       1=Yes; 0=No       314       0.47       0       1       0.50					0	1	
Gifts_2_E       1=Yes; 0=No       815       0.12       0       1       0.33         Gifts_2_F       1=Yes; 0=No       814       0.02       0       1       0.15         Gifts_out_2       Purchased Outside Alaska 1=Yes; 0=No       746       0.01       0       1       0.10         Amusement_2       Total Amount Spent on Other Entertainment       1190       52.93       0       3,000       176.50         Amusement_2_A       1=Yes; 0=No       314       0.19       0       1       0.39         Amusement_2_B       1=Yes; 0=No       314       0.17       0       1       0.37         Amusement_2_C       1=Yes; 0=No       314       0.47       0       1       0.50					0	1	
Gifts_2_F       1=Yes; 0=No       814       0.02       0       1       0.15         Gifts_out_2       Purchased Outside Alaska 1=Yes; 0=No       746       0.01       0       1       0.10         Amusement_2       Total Amount Spent on Other Entertainment       1190       52.93       0       3,000       176.50         Amusement_2_A       1=Yes; 0=No       314       0.19       0       1       0.39         Amusement_2_B       1=Yes; 0=No       314       0.17       0       1       0.37         Amusement_2_C       1=Yes; 0=No       314       0.47       0       1       0.50					0	1	
Gifts_out_2       Purchased Outside Alaska 1=Yes; 0=No       746       0.01       0       1       0.10         Amusement_2       Total Amount Spent on Other Entertainment       1190       52.93       0       3,000       176.50         Amusement_2_A       1=Yes; 0=No       314       0.19       0       1       0.39         Amusement_2_B       1=Yes; 0=No       314       0.17       0       1       0.37         Amusement_2_C       1=Yes; 0=No       314       0.47       0       1       0.50		,					
Amusement_2       Total Amount Spent on Other Entertainment       1190       52.93       0       3,000       176.50         Amusement_2_A       1=Yes; 0=No       314       0.19       0       1       0.39         Amusement_2_B       1=Yes; 0=No       314       0.17       0       1       0.37         Amusement_2_C       1=Yes; 0=No       314       0.47       0       1       0.50							
Amusement_2_A       1=Yes; 0=No       314       0.19       0       1       0.39         Amusement_2_B       1=Yes; 0=No       314       0.17       0       1       0.37         Amusement_2_C       1=Yes; 0=No       314       0.47       0       1       0.50							
Amusement_2_B       1=Yes; 0=No       314       0.17       0       1       0.37         Amusement_2_C       1=Yes; 0=No       314       0.47       0       1       0.50							
Amusement_2_C							
						1	
	Amusement_2_D	1=Yes; 0=No	314	0.04	0	1	0.21

**NOTE: Summary statistics of raw survey data.** The mean values reported here do not necessarily represent average spending by all Alaska anglers; the standard deviations do to not apply to final spending estimates. This table includes raw survey data that underwent numerous transformations to produce the final study estimates.

Appendix G3.–Page 8 of 13

Variable	Label	N	Mean	Min	Max	StdDev
Amusement_2_E	1=Yes; 0=No	314	0.09	0	1	0.28
Amusement_2_F	1=Yes; 0=No	314	0.02	0	1	0.13
Amusement_out_2	Purchased Outside Alaska 1=Yes; 0=No	208	0.01	0	1	0.10
Other_2	Total Amount Spent on Other	1185	7.41	0	2,750	101.51
Other_2_A	1=Yes; 0=No	160	0.18	0	1	0.39
Other_2_B	1=Yes; 0=No	160	0.09	0	1	0.28
Other_2_C	1=Yes; 0=No	160	0.29	0	1	0.46
Other_2_D	1=Yes; 0=No	160	0.03	0	1	0.16
Other_2_E	1=Yes; 0=No	160	0.06	0	1	0.24
Other_2_F	1=Yes; 0=No	160	0.01	0	1	0.08
Other_out_2	Purchased Outside Alaska 1=Yes; 0=No	119	0.07	0	1	0.25
Eq_Lic	Total Amount Spent on License and Stamps	1542	72.29	0	1,000	91.11
Eq_Lic_A	1=Yes; 0=No	1077	0.28	0	1	0.45
Eq_Lic_B	1=Yes; 0=No	1077	0.12	0	1	0.32
Eq_Lic_C	1=Yes; 0=No	1078	0.51	0	1	0.50
Eq_Lic_D	1=Yes; 0=No	1077	0.04	0	1	0.20
Eq_Lic_E	1=Yes; 0=No	1077	0.04	0	1	0.21
Eq_Lic_F	1=Yes; 0=No	1077	0.01	0	1	0.09
Eq_RodReel	Total Amount Spent on Rods, Reels, and Components	1542	24.17	0	1,500	98.24
Eq_Rods_A	1=Yes; 0=No	225	0.16	0	1	0.36
Eq_Rods_B	1=Yes; 0=No	225	0.12	0	1	0.32
Eq_Rods_C	1=Yes; 0=No	225	0.59	0	1	0.49
Eq_Rods_D	1=Yes; 0=No	225	0.04	0	1	0.20
Eq_Rods_E	1=Yes; 0=No	225	0.04	0	1	0.21
Eq_Rods_F	1=Yes; 0=No	225	0	0	0	0
Eq_Tackle	Total Amount Spent on Fishing Tackle	1542	29.40	0	1,500	86.67
Eq_Tackle_A	1=Yes; 0=No	514	0.20	0	1	0.40
Eq_Tackle_B	1=Yes; 0=No	514	0.16	0	1	0.36
Eq_Tackle_C	1=Yes; 0=No	514	0.55	0	1	0.50
Eq_Tackle_D	1=Yes; 0=No	514	0.04	0	1	0.21
Eq_Tackle_E	1=Yes; 0=No	514	0.06	0	1	0.24
Eq_Tackle_F	1=Yes; 0=No	514	0.01	0	1	0.12
Eq_Tacklebox	Total Amount Spent on Tackle Boxes	1542	1.59	0	200	11.11
Eq_Tacklebox_A	1=Yes; 0=No	81	0.15	0	1	0.36
Eq_Tacklebox_B	1=Yes; 0=No	81	0.10	0	1	0.30
Eq_Tacklebox_C	1=Yes; 0=No	81	0.42	0	1	0.50
Eq_Tacklebox_D	1=Yes; 0=No	81	0.01	0	1	0.11
Eq_Tacklebox_E	1=Yes; 0=No	81	0.05	0	1	0.22
Eq_Tacklebox_F	1=Yes; 0=No	81	0	0	0	0
Eq_Electronics	Total Amount Spent on Fish/Depth Finder	1542	6.54	0	200	242.03
Eq_Elec_A	1=Yes; 0=No	33	0.12	0	1	0.33
Eq_Elec_B	1=Yes; 0=No	33	0.03	0	1	0.17
Eq_Elec_C	1=Yes; 0=No	33	0.03	0	1	0.17
Eq_Elec_D	1=Yes; 0=No	33	0.03	0	1	0.17
Eq_Elec_E	1=Yes; 0=No	34	0	0	0	0
Eq_Elec_F	1=Yes; 0=No	33	0	0	0	0
Eq_Nets	Total Amount Spent on Dip/Gill Nets	1542	1.67	0	300	12.90
Eq_Nets_A	1=Yes; 0=No	77	0.16	0	1	0.37
Eq_Nets_B	1=Yes; 0=No	77	0.10	0	1	0.31
Eq_Nets_C	1=Yes; 0=No	78	0.36	0	1	0.48
Eq_Nets_D	1=Yes; 0=No	77	0.03	0	1	0.16
Eq_Nets_E	1=Yes; 0=No	77	0	0	0	0
Eq_Nets_F	1=Yes; 0=No	78	0	0	0	0
Eq_Misc	Total Amount Spent on Miscellaneous Fishing Equipment	1542	10.33	0	1,825	64.86
Eq_Misc_A	1=Yes; 0=No	202	0.23	0	1	0.42

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Appendix G3.–Page 9 of 13

Variable	Label	N	Mean	Min	Max	StdDev
Eq_Misc_B	1=Yes; 0=No	203	0.14	0	1	0.35
Eq_Misc_C	1=Yes; 0=No	203	0.44	0	1	0.50
Eq_Misc_D	1=Yes; 0=No	203	0.04	0	1	0.21
Eq_Misc_E	1=Yes; 0=No	203	0.03	0	1	0.17
Eq_Misc_F	1=Yes; 0=No	203	0	0	0	0
Eq_Shellfish	Total Amount Spent on	1542	1.04	0	300	10.24
Eq_Shellfish_A	1=Yes; 0=No	59	0.14	0	1	0.35
Eq_Shellfish_B	1=Yes; 0=No	59	0.03	0	1	0.18
Eq_Shellfish_C	1=Yes; 0=No	59	0.34	0	1	0.48
Eq_Shellfish_D	1=Yes; 0=No	59	0	0	0	0
Eq_Shellfish_E	1=Yes; 0=No	59	0.02	0	1	0.13
Eq_Shellfish_F	1=Yes; 0=No	59	0.02	0	0	0
Eq_Taxidermy	Total Amount Spent on Taxidermy	1542	4.53	0	1,500	67.81
Eq_Taxidermy_A	1=Yes; 0=No	39	0.13	0	1,000	0.34
Eq_Taxidermy_B	1=Yes; 0=No	38	0.03	0	<u> </u>	0.16
Eq_Taxidermy_C	1=Yes; 0=No	38	0.03	0	1	0.31
Eq_Taxidermy_D	1=Yes; 0=No	38	0.11	0	0	0.51
Eq_Taxidermy_E	1=Yes; 0=No	38	0	0	0	0
Eq_Taxidermy_F	1=Yes; 0=No	39	0	0	0	0
Eq_Books	Total Amount Spent on	1542	2.70	0	200	13.62
Eq_Books_A	1=Yes; 0=No	139	0.21	0	1	0.41
Eq_Books_B	1=Yes; 0=No	139	0.21	0	1	0.41
Eq_Books_C	1=Yes; 0=No	139	0.13	0		0.49
Eq_Books_D	1=Yes; 0=No	139	0.40	0		0.49
	, and the second	139	0.05	0		0.22
Eq_Books_E	1=Yes; 0=No 1=Yes; 0=No	139		-	0	
Eq_Books_F	, and the second	1542	0 12.79	0	1,500	0 67.98
Eq_Preserve Eq_Preserve_A	Total Amount Spent on Preserving/Smoking 1=Yes; 0=No	163	0.15	0	1,500	07.96
	1=Yes; 0=No	163	0.13	0	1	0.30
Eq_Preserve_B	1=Yes; 0=No	163	0.13	0		0.50
Eq_Preserve_C Eq_Preserve_D	1=Yes; 0=No	163	0.49	0		0.50
	1=Yes; 0=No	163	0.03	0		0.17
Eq_Preserve_E Eq_Preserve_F	1=Yes; 0=No	163	0.04	0	0	0.19
Eq_PreservePct	% used for sportfishing	103	72.64	0	100	43.54
Eq_Coolers		1542	11.08	0	400	29.78
Eq_Coolers_A	Total Amount Spent on Coolers 1=Yes; 0=No	355	0.15	0	1	0.36
Eq_Coolers_B	1=Yes; 0=No	355	0.13	0		0.33
Eq_Coolers_C	1=Yes; 0=No	355	0.13	0		0.50
Eq_Coolers_D	1=Yes; 0=No	355	0.05	0		0.30
Eq_Coolers_E	1=Yes; 0=No	355	0.03	0		0.21
Eq_Coolers_F	1=Yes; 0=No	356	0.02	0	1	0.14
Eq_CoolersPct	% used for sportfishing	236	67.25	0	100	44.68
Eq_Clothing	Total Amount Spent on Clothing	1542	24.92	0	2,750	108.44
Eq_Clothing_A	1=Yes; 0=No	319	0.25	0	2,750	0.43
Eq_Clothing_B	1=Yes; 0=No	319	0.23	0		0.43
Eq_Clothing_C	1=Yes; 0=No	319	0.12	0	1	0.52
i- 5-	, and the second		0.43	0	1	0.30
Eq_Clothing_D Eq_Clothing_E	1=Yes; 0=No 1=Yes; 0=No	320 319	0.04	0		0.20
Eq_Clothing_E Eq_Clothing_F	1=Yes; 0=No 1=Yes; 0=No	319	0.03	0		0.17
Eq_ClothingPct	· · · · · · · · · · · · · · · · · · ·	206	58.62		100	43.26
Eq_ClothingPct Eq_Boots	% used for sportfishing Total Amount Spent on Boots, and Shoes			0	400	38.43
		1542	12.18		1	
Eq_Boots_A	1=Yes; 0=No	236	0.11	0	1	0.31
Eq_Boots_B	1=Yes; 0=No 1=Yes; 0=No	236	0.08	0	1 1	0.27
Eq_Boots_C	, and the second	236	0.58	0	1   1	0.50
Eq_Boots_D	1=Yes; 0=No	235	0.03	0		0.17

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Appendix G3.-Page 10 of 13

Variable	Label	N	Mean	Min	Max	StdDev
Eq_Boots_E	1=Yes; 0=No	236	0.05	0	1	0.22
Eq_Boots_F	1=Yes; 0=No	236	0	0	0	0
Eq_BootsPct	% used for sportfishing	149	65.70	0	100	45.72
Eq_LJackets	Total Amount Spent on Life Jackets, and Survival Suits	1542	0.69	0	200	8.85
Eq_LJackets_A	1=Yes; 0=No	40	0.13	0	1	0.33
Eq_LJackets_B	1=Yes; 0=No	40	0.05	0	1	0.22
Eq_LJackets_C	1=Yes; 0=No	40	0.15	0	1	0.36
Eq_LJackets_D	1=Yes; 0=No	40	0	0	0	0
Eq_LJackets_E	1=Yes; 0=No	40	0.03	0	1	0.16
Eq_LJackets_F	1=Yes; 0=No	40	0	0	0	0
Eq_LJacketsPct	% used for sportfishing	9	87.78	0	100	33.08
Eq_Boats	Total Amount Spent on Boats, Canoes, Watercraft, etc	1541	44.29	0	27,000	906.70
Eq_Boats_A	1=Yes; 0=No	45	0.20	0	1	0.40
Eq_Boats_B	1=Yes; 0=No	45	0.02	0	1	0.15
Eq_Boats_C	1=Yes; 0=No	45	0.13	0	1	0.34
Eq_Boats_D	1=Yes; 0=No	45	0.02	0	1	0.15
Eq_Boats_E	1=Yes; 0=No	45	0	0	0	0
Eq_Boats_F	1=Yes; 0=No	45	0	0	0	0
Eq_BoatsPct	% used for sportfishing	8	50.00	0	100	53.45
Eq_Motors	Total Amount Spent on Boat Motors	1542	3.21	0	3,000	83.72
Eq_Motors_A	1=Yes; 0=No	34	0.09	0	1	0.29
Eq_Motors_B	1=Yes; 0=No	34	0.06	0	1	0.24
Eq_Motors_C	1=Yes; 0=No	34	0.06	0	1	0.24
Eq_Motors_D	1=Yes; 0=No	34	0.03	0	1	0.17
Eq_Motors_E	1=Yes; 0=No	34	0.00	0	0	0.17
Eq_Motors_F	1=Yes; 0=No	34	0	0	0	0
Eq_MotorsPct	% used for sportfishing	7	71.43	0	100	48.80
Eq_Trailers	Total Amount Spent on Boat Trailers	1542	1.51	0	500	22.85
Eq_Trailers_A	1=Yes; 0=No	40	0.08	0	1	0.27
Eq_Trailers_B	1=Yes; 0=No	40	0.05	0	1	0.22
Eq_Trailers_C	1=Yes; 0=No	40	0.23	0	1	0.42
Eq_Trailers_D	1=Yes; 0=No	40	0.20	0	0	0
Eq_Trailers_E	1=Yes; 0=No	40	0	0	0	0
Eq_Trailers_F	1=Yes; 0=No	40	0	0	0	0
Eq_TrailersPct	% used for sportfishing	10	55.10	0	100	49.60
Eq_OtherParts	Total Amount Spent on Other Boat Parts	1542	5.04	0	1,000	60.16
Eq_OtherParts_A	1=Yes; 0=No	57	0.21	0	1	0.41
Eq_OtherParts_B	1=Yes; 0=No	57	0.07	0	1	0.26
Eq_OtherParts_C	1=Yes; 0=No	57	0.21	0	1	0.41
Eq_OtherParts_D	1=Yes; 0=No	57	0.04	0	1	0.19
Eq_OtherParts_E	1=Yes; 0=No	57	0.02	0	1	0.13
Eq_OtherParts_F	1=Yes; 0=No	57	0	0	0	0
Eq_OtherPartsPct	% used for sportfishing	19	79.00	0	100	41.78
Eq_BearSpray	Total Amount Spent on Bear Spray, Bug Spray, etc	1542	3.85	0	200	13.16
Eq_BearSpray_A	1=Yes; 0=No	245	0.17	0	1	0.37
Eq_BearSpray_B	1=Yes; 0=No	245	0.12	0	1	0.33
Eq_BearSpray_C	1=Yes; 0=No	245	0.51	0	1	0.50
Eq_BearSpray_D	1=Yes; 0=No	245	0.04	0	1	0.20
Eq_BearSpray_E	1=Yes; 0=No	245	0.10	0	1	0.30
Eq_BearSpray_F	1=Yes; 0=No	245	0.00	0	1	0.06
Eq_BearSprayPct	% used for sportfishing	155	59.85	0	100	43.51
Eq_Firearms	Total Amount Spent on Firearms	1542	0.69	0	450	14.30
Eq_Firearms_A	1=Yes; 0=No	34	0.07	0	1	0.33
Eq_Firearms_B	1=Yes; 0=No	34	0.12	0	1	0.33
Eq_Firearms_C	1=Yes; 0=No	34	0.03	0	1	0.17
Lq_i iicailiis_C	1-103, U-11U	JT	0.10	U	1	0.50

**NOTE: Summary statistics of raw survey data.** The mean values reported here do not necessarily represent average spending by all Alaska anglers; the standard deviations do to not apply to final spending estimates. This table includes raw survey data that underwent numerous transformations to produce the final study estimates.

Appendix G3.–Page 11 of 13

Variable	Label	N	Mean	Min	Max	StdDev
Eq_Firearms_D	1=Yes; 0=No	34	0	0	0	0
Eq_Firearms_E	1=Yes; 0=No	34	0	0	0	0
Eq_Firearms_F	1=Yes; 0=No	34	0	0	0	0
Eq_FirearmsPct	% used for sportfishing	6	33.33	0	100	51.64
Eq_Cameras	Total Amount Spent on Camera, Binoculars, Sun Glasses	1542	7.52	0	1,000	48.25
Eq_Cameras_A	1=Yes; 0=No	125	0.22	0	1	0.41
Eq_Cameras_B	1=Yes; 0=No	125	0.06	0	1	0.23
Eq_Cameras_C	1=Yes; 0=No	125	0.42	0	1	0.50
Eq_Cameras_D	1=Yes; 0=No	125	0.02	0	1	0.15
Eq_Cameras_E	1=Yes; 0=No	125	0.02	0	1	0.13
Eq_Cameras_F	1=Yes; 0=No	125	0.01	0	1	0.20
Eq_CamerasPct	% used for sportfishing	73	52.41	0	100	40.59
Eq_Camerasi et Eq_Tents	Total Amount Spent on Tents, etc	1542	3.23	0	500	28.28
Eq_Tents_A	1=Yes; 0=No	60	0.12	0	1	0.32
Eq_Tents_B	1=Yes; 0=No	60	0.12	0	1	0.32
Eq_Tents_C	1=Yes; 0=No	60	0.08	0	1	0.26
Eq_Tents_D	1=Yes; 0=No	60	0.26	0	1	0.45
Eq_Tents_E Eq_Tents_E	1=Yes; 0=No	60	0.07	0	1	0.23
		60				
Eq_Tents_F	1=Yes; 0=No		0	0	0	0
Eq_TentsPct	% used for sportfishing	25	24.60	0	100	40.87
Eq_Campers	Total Amount Spent on Camping Trailer	1543	13.33	0	17,000	437.38
Eq_Campers_A	1=Yes; 0=No	32	0.09	0	1	0.30
Eq_Campers_B	1=Yes; 0=No	32	0.03	0	1	0.18
Eq_Campers_C	1=Yes; 0=No	32	0.06	0	1	0.25
Eq_Campers_D	1=Yes; 0=No	32	0.03	0	1	0.18
Eq_Campers_E	1=Yes; 0=No	32	0	0	0	0
Eq_Campers_F	1=Yes; 0=No	32	0	0	0	0
Eq_CampersPct	% used for sportfishing	4	1.25	0	5	2.50
Eq_Other_Camp	Total Amount Spent on Other Camping Equipment	1542	2.99	0	400	21.56
Eq_Other_Camp_A	1=Yes; 0=No	77	0.13	0	1	0.34
Eq_Other_Camp_B	1=Yes; 0=No	77	0.03	0	1	0.16
Eq_Other_Camp_C	1=Yes; 0=No	77	0.40	0	1	0.49
Eq_Other_Camp_D	1=Yes; 0=No	77	0.03	0	1	0.16
Eq_Other_Camp_E	1=Yes; 0=No	77	0.09	0	1	0.29
Eq_Other_Camp_F	1=Yes; 0=No	77	0	0	0	0
Eq_Other_CampPct	% used for sportfishing	37	44.35	0	100	45.05
Eq_Vehicles	Total Amount Spent on Vehicles	1542	47.71	0	17,000	522.28
Eq_Vehicles_A	1=Yes; 0=No	72	0.08	0	1	0.28
Eq_Vehicles_B	1=Yes; 0=No	72	0.10	0	1	0.30
Eq_Vehicles_C	1=Yes; 0=No	72	0.36	0	1	0.48
Eq_Vehicles_D	1=Yes; 0=No	72	0.03	0	1	0.17
Eq_Vehicles_E	1=Yes; 0=No	72	0.01	0	1	0.12
Eq_Vehicles_F	1=Yes; 0=No	72	0	0	0	0
Eq_VehiclesPct	% used for sportfishing	28	46.61	0	100	47.45
Eq_Planes	Total Amount Spent on Airplanes and Related Equipment	1542	12.56	0	2,000	112.65
Eq_Planes_A	1=Yes; 0=No	53	0.15	0	1	0.36
Eq_Planes_B	1=Yes; 0=No	53	0.02	0	1	0.14
Eq_Planes_C	1=Yes; 0=No	53	0.23	0	1	0.42
Eq_Planes_D	1=Yes; 0=No	53	0.04	0	1	0.19
Eq_Planes_E	1=Yes; 0=No	53	0.02	0	1	0.14
Eq_Planes_F	1=Yes; 0=No	53	0.04	0	1	0.19
Eq_PlanesPct	% used for sportfishing	19	57.89	0	100	50.73
Eq_ATV	Total Amount Spent on ATVs, and Snowmobiles	1542	0.16	0	150	4.45
Eq_ATV_A	1=Yes; 0=No	29	0.07	0	1	0.26
Eq_ATV_B	1=Yes; 0=No	29	0.03	0	1	0.19

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Appendix G3.-Page 12 of 13

Variable	Label	N	Mean	Min	Max	StdDev
Eq_ATV_C	1=Yes; 0=No	29	0	0	0	0
Eq_ATV_D	1=Yes; 0=No	29	0	0	0	0
Eq_ATV_E	1=Yes; 0=No	29	0	0	0	0
Eq_ATV_F	1=Yes; 0=No	29	0	0	0	0
Eq_ATVPct	% used for sportfishing	2	0	0	0	0
Eq_Registration	Total Amount Spent on Boat/Camper Registration	1542	1.65	0	500	18.31
Eq_Registration_A	1=Yes; 0=No	51	0.10	0	1	0.30
Eq_Registration_B	1=Yes; 0=No	51	0.08	0	1	0.27
Eq_Registration_C	1=Yes; 0=No	51	0.24	0	1	0.43
Eq_Registration_D	1=Yes: 0=No	51	0.04	0	1	0.20
Eq_Registration_E	1=Yes: 0=No	51	0.02	0	1	0.14
Eq_Registration_F	1=Yes; 0=No	51	0	0	0	0
Eq_RegistrationPct	% used for sportfishing	19	64.74	0	100	46.71
Eq_Repair	Total Amount Spent on Vehicle Repair/Maintenance	1542	13.23	0	4,000	143.92
Eq_Repair_A	1=Yes; 0=No	83	0.22	0	1	0.41
Eq_Repair_B	1=Yes; 0=No	83	0.06	0	1	0.24
Eq_Repair_C	1=Yes; 0=No	83	0.29	0	1	0.46
Eq_Repair_D	1=Yes; 0=No	83	0.02	0	1	0.15
Eq_Repair_E	1=Yes; 0=No	83	0.04	0	1	0.19
Eq_Repair_F	1=Yes; 0=No	83	0.02	0	1	0.15
Eq_RepairPct	% used for sportfishing	36	57.50	0	100	45.19
- '	Total Amount Spent on Other, including non-fishing related					
Eq_Other	purchases	1807	0.21	0	200	5.23
Eq_Other_A	1=Yes; 0=No	106	0.25	0	1	0.43
Eq_Other_B	1=Yes; 0=No	106	0.09	0	1	0.29
Eq_Other_C	1=Yes; 0=No	107	0.30	0	1	0.46
Eq_Other_D	1=Yes; 0=No	106	0.01	0	1	0.10
Eq_Other_E	1=Yes; 0=No	106	0.05	0	1	0.21
Eq_Other_F	1=Yes; 0=No	106	0.01	0	1	0.10
Eq_OtherPct	% used for sportfishing	69	35.35	0	100	43.39
Own	Amount Spent on Real Estate Owned/Shared for Fishing	1094	945.11	0	400,000	14,752.32
Own_A	Region A 1=Yes; 0=No	84	0.05	0	1	0.21
Own_B	Region B 1=Yes; 0=No	85	0.02	0	1	0.15
Own_C	Region C 1=Yes; 0=No	85	0.14	0	1	0.35
Own_D	Region D 1=Yes; 0=No	86	0.05	0	1	0.21
Own_E	Region E 1=Yes; 0=No	85	0.02	0	1	0.15
Own_F	Region F 1=Yes; 0=No	85	0.01	0	1	0.11
Lease	Amount Spent on Real Estate Leased/Rented for Fishing	1085	383.40	0	310,000	9,447.68
Lease_A	Region A 1=Yes; 0=No	122	0.14	0	1	0.35
Lease_B	Region B 1=Yes; 0=No	122	0.02	0	1	0.16
Lease_C	Region C 1=Yes; 0=No	122	0.32	0	1	0.47
Lease_D	Region D 1=Yes; 0=No	122	0.04	0	1	0.20
Lease_E	Region E 1=Yes; 0=No	122	0.01	0	1	0.09
Lease_F	Region F 1=Yes; 0=No	122	0	0	0	0
Maintain	Amount Spent on Repairs/Maintenance for Real Estate	1069	186.72	0	125,000	4,000.74
Maint_A	Region A 1=Yes; 0=No	83	0.06	0		0.24
Maint_B	Region B 1=Yes; 0=No	83	0	0	0	0
Maint_C	Region C 1=Yes; 0=No	83	0.13	0		0.34
Maint_D	Region D 1=Yes; 0=No	83	0.04	0	1	0.19
Maint_E	Region E 1=Yes; 0=No	83	0.01	0	1	0.11
Maint_F	Region F 1=Yes; 0=No	83	0	0	0	0 200 04
Cabin A	Amount Spent on Construction of Buildings, Cabins, Etc	1071	466.69	0	200,000	8,280.96
Cabin_A Cabin_B	Region A 1=Yes; 0=No Region B 1=Yes; 0=No	80 80	0.08	0	0	0.27
	Region C 1=Yes; 0=No	80	0.11	0	1	0.32
Cabiii_C	Negion C 1=163, U=110	ου	0.11	V		U.JZ

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## Appendix G3.-Page 13 of 13

Variable	Label	N	Mean	Min	Max	StdDev
Cabin_D	Region D 1=Yes; 0=No	80	0.01	0	1	0.11
Cabin_E	Region E 1=Yes; 0=No		0.01	0	1	0.11
Cabin_F	Region F 1=Yes; 0=No	80	0	0	0	0
Sex	1=Male; 2=Female	1749	1.21	1	2	0.41
B_year	Year of Birth	1745	1,954	1,909	1,992	14.34
	1=Did not Graduate H.S.; 2=H.S. Graduate or GED; 3=1-3 Years					
Educ	of College; 4=College Graduate; 5=Postgraduate, Masters,Ph.D	1745	3.51	1	5	1.12
	1=Less Than 9,999; 2=10k-19,999; 3=20k-29,999; 4=30k-					
	39,999; 5=40k-49,999; 6=50k-59,999; 7=60k-69,999; 8=70k-					
	79,999; 9=80k-89,999; 10=90k-99,999; 11=100k-249,999;					
HH_Income	12=250k or More	1660	8.84	1	12	2.79
	1=Very Dissatisfied; 2=Generally Dissatisfied; 3=Neutral;					
Satis	4=Generally Satisfied; 5=Very Satisfied	1774	4.23	1	5	1.12

# APPENDIX H: OUTLIER VALUES DELETED FROM THE ANALYSIS

Appendix H1.-Steps taken to identify and adjust outliers, ADF&G Economic Study, 2007.

Several steps were taken to identify and adjust outliers. The first was an ordering of all variables by value to identify extreme values. ADF&G, with Southwick Associates, conducted a joint examination of the extreme values to assess plausibility based on personal knowledge of fishing in Alaska and considering additional data provided by individual respondents. For example, a large expenditure for lodging by itself may appear as a potential outlier, but considered in concert with large values for length of trip and other trip spending such as groceries and meals, the large lodging value appears reasonable. Finally, each remaining potential outlier was tested to determine its effect on the mean value across all other responses within the same survey wave. If any single observation increased the statewide mean by 25 percent or more then it was deemed an outlier and replaced by a missing value.

The following observations were identified as outliers and the value set to missing. The removal of these outliers is reflected in the summary statistics presented in Appendix G.

### Wave I Resident Survey:

- Question 17: \$4,000 for shellfish fishing equipment
- Question 17: \$17,000 for trailers, hitches and accessories
- Question 17: \$300,000 for boats, canoes, kayaks, etc.

### Wave II Resident Survey:

- Question 13: \$3,000 for boat launch
- Question 23: \$3,000 for commercial transportation
- Question 24: \$15,000 for depth finders and electronics
- Question 24: \$200,000 for boats, canoes, kayaks, etc.
- Question 24: \$40,000 for boat motors
- Question 25: \$230,000 for real estate

#### Wave II Nonresident Survey:

- Question 24: \$4,000 for bait
- Question 25: \$100,000 for boats, canoes, kayaks, etc.
- Question 25: \$9,500 for electronics

# APPENDIX I: ESTIMATED DAYS OF SPORTFISHING EFFORT AND ASSOCIATED STANDARD DEVIATIONS, 2007

Appendix I1.—Estimation procedures for standard errors, guided/non-guided angler days fished.

ADF&G, Division of Sport Fish (DSF) generates estimates and standard errors annually for guided/non-guided estimates of anglers days fished at the survey area/resident type/water type level by apportioning the ratios of guided/non-guided estimates from the supplemental Statewide Harvest Survey (SWHS) into estimates from the combined supplemental and standard SWHS survey. DSF uses these guided/non-guided estimates as the starting point for nearly all guided/non-guided data requests.

The DSF standard approach would have worked for the final set of days fished aggregations for this economic study, however, the Southwick Associates project team had already summed the detailed point estimates of days fished provided by DSF September 10, 2008 up to the new aggregations. Considering that guided/non-guided proportions change with each level of aggregation and that the original point estimates needed to be matched in the bootstrap process, the bootstrap approach needed to be changed to reflect the original aggregations.

The final 2007 SAS program for providing bootstrapped estimates of days fished was titled Bootstrap\_DF\_condensed.sas. The guided/non-guided point estimates for days fished were calculated at the original, detailed levels, and bootstrapped at that level, using 1,000 iterations. Standard errors were calculated by applying summary statistics to the bootstrap data set at the region/resident type and water type level, the state/water type/resident type level, and Cook Inlet at the resident type and water type level.

This detailed approach rather than the DSF standard method of estimating guided/non-guided standard errors and point estimates will need to be employed if the study is repeated in order to maintain historic continuity with the results contained in this report.

Appendix I2.—Estimated standard errors for anglers' days fished in 2007 by residency, water type, and guided/unguided fishing within regions, ADFG Statewide Harvest Survey.

### **Table Legend**

Non = Nonresident
Res = Resident
F = Freshwater
S = Saltwater
Tot = Total

Est = Estimated total days fished (2007 SWHS)

Mean = Bootstrap mean of total days fished

%Bias = % difference in Total and bootstrap mean

STD = Standard Error of estimated total days fished from bootstrap mean

LCL = Lower 95% confidence level UCL = Upper 95% confidence level

OUT = output bin: equal to "1" if bootstrap mean outside 95% confidence

interval

Table I2.—Estimated standard errors for anglers' days fished in 2007 by residency, water type, and guided/unguided fishing within regions, ADFG Statewide Harvest Survey., Appendix I2.—Page 2 of 5

					DF estimates	
region	RESTYPE	WATERTYP	type	guided	private	total
Southeast	NON	F	0 EST	17,853	47,830	65,683
Southeast	NON	F	1 MEAN	17,887	47,566	65,453
Southeast	NON	F	2 %BIAS	0	1	0
Southeast	NON	F	3 STD	1,956	2,941	3,282
Southeast	NON	F	4 LCL	14,309	41,942	59,136
Southeast	NON	F	5 UCL	21,971	53,487	72,059
Southeast	NON	F	6 OUT			
Southeast	NON	S	0 EST	147,333	108,133	255,466
Southeast	NON	S	1 MEAN	147,337	108,044	255,381
Southeast	NON	S	2 %BIAS	0	0	0
Southeast	NON	S	3 STD	4,710	5,044	5,976
Southeast	NON	S	4 LCL	138,229	98,332	244,312
Southeast	NON	S	5 UCL	156,633	118,018	267,464
Southeast	NON	S	6 OUT			
Southeast	NON	Tot	0 EST	165,186	155,963	321,149
Southeast	NON	Tot	1 MEAN	165,224	155,610	320,834
Southeast	NON	Tot	2 %BIAS	0	0	0
Southeast	NON	Tot	3 STD	5,175	5,808	6,964
Southeast	NON	Tot	4 LCL	155,357	144,257	306,808
Southeast	NON	Tot	5 UCL	175,702	166,445	334,418
Southeast	NON	Tot	6 OUT			
Southeast	RES	F	0 EST	2,303	36,948	39,251
Southeast	RES	F	1 MEAN	2.058	36,860	39,184
Southeast	RES	F	2 %BIAS	11	0	. 0
Southeast	RES	F	3 STD	1,004	4,071	4,062
Southeast	RES	F	4 LCL	334	29,432	31,805
Southeast	RES	F	5 UCL	4,269	45,174	47,414
Southeast	RES	F	6 OUT	,	- ,	,
Southeast	RES	S	0 EST	14,857	165,033	179,890
Southeast	RES	S	1 MEAN	14,777	165,905	180,683
Southeast	RES	S	2 %BIAS	1	-1	0
Southeast	RES	S	3 STD	3,208	9,548	9,751
Southeast	RES	S	4 LCL	8,795	148,110	162,621
Southeast	RES	S	5 UCL	21,357	184,613	199,443
Southeast	RES	S	6 OUT	, , , ,		
Southeast	RES	Tot	0 EST	17,159	201,982	219,141
Southeast	RES	Tot	1 MEAN	16,835	202,765	219,866
Southeast	RES	Tot	2 %BIAS	2	0	C
Southeast	RES	Tot	3 STD	3,386	10,510	10,733
Southeast	RES	Tot	4 LCL	10,683	183,644	199,929
Southeast	RES	Tot	5 UCL	23,817	223,215	241,656
Southeast	RES	Tot	6 OUT	20,011		2 , 0 0 0
Southcentral	NON	F	0 EST	158,300	330,008	488,308
Southcentral	NON	F	1 MEAN	157,980	329,670	487,690
Southcentral	NON	F	2 %BIAS	0	0	0
Southcentral	NON	F	3 STD	7,616	13,050	15,793
Southcentral	NON	F	4 LCL	143,732	305,715	456,588
Southcentral	NON	F	5 UCL	173,761	356,078	520,064
Southcentral	NON	F	6 OUT		555,075	020,007
Southcentral	NON	S	0 EST	127,592	95,403	222,995
Southcentral	NON	S	1 MEAN	127,716	95,185	222,909
Southcentral	NON	S	2 %BIAS	0	93,183	222,909

Appendix I2.—Page 3 of 5.

					DF estimates	
region	RESTYPE	WATERTYP	type	guided	private	total
Southcentral	NON	S	3 STD	4,272	4,673	5,159
Southcentral	NON	S	4 LCL	119,518	86,420	212,900
Southcentral	NON	S	5 UCL	136,058	104,785	233,004
Southcentral	NON	S	6 OUT			
Southcentral	NON	Tot	0 EST	285,892	425,411	711,303
Southcentral	NON	Tot	1 MEAN	285,696	424,855	710,599
Southcentral	NON	Tot	2 %BIAS	0	0	(
Southcentral	NON	Tot	3 STD	8,507	13,846	16,41
Southcentral	NON	Tot	4 LCL	269,030	399,565	679,12
Southcentral	NON	Tot	5 UCL	302,963	451,967	744,50
Southcentral	NON	Tot	6 OUT			
Southcentral	RES	F	0 EST	46,661	648,398	695,05
Southcentral	RES	F	1 MEAN	46,259	648,549	695,15
Southcentral	RES	F	2 %BIAS	1	0	
Southcentral	RES	F	3 STD	4,081	16,385	16,67
Southcentral	RES	F	4 LCL	38,591	615,939	661,62
Southcentral	RES	F	5 UCL	54,894	681,327	726,70
Southcentral	RES	F	6 OUT	50.745		200.00
Southcentral	RES	S	0 EST	56,715	336,206	392,99
Southcentral	RES	S	1 MEAN	56,891	335,729	392,88
Southcentral	RES	S S	2 %BIAS 3 STD	0	0	40.00
Southcentral	RES	S		3,574	12,288	12,60
Southcentral Southcentral	RES RES	S	4 LCL 5 UCL	50,368	312,451	368,81
	RES	S	6 OUT	64,692	360,260	417,46
Southcentral Southcentral	RES	Tot	0 EST	103,376	984,604	1,088,04
Southcentral	RES	Tot	1 MEAN	103,376	984,278	1,088,03
Southcentral	RES	Tot	2 %BIAS	0	0	1,000,00
Southcentral	RES	Tot	3 STD	5,446	19,524	19,68
Southcentral	RES	Tot	4 LCL	93,039	946,148	1,048,58
Southcentral	RES	Tot	5 UCL	114,597	1,021,380	1,125,89
Southcentral	RES	Tot	6 OUT	111,001	1,021,000	1,120,00
Interior	NON	F	0 EST	13,183	35,144	48,42
Interior	NON	F	1 MEAN	13,340	34,983	48,41
Interior	NON	F	2 %BIAS	-1	0	,
Interior	NON	F	3 STD	1.779	3,526	3,58
Interior	NON	F	4 LCL	10,113	28,754	41,86
Interior	NON	F	5 UCL	16,942	42,483	55,63
Interior	NON	F	6 OUT			· · ·
Interior	NON	S	0 EST	114	0	11
Interior	NON	S	1 MEAN	88	0	11
Interior	NON	S	2 %BIAS	23	0	
Interior	NON	S	3 STD	86	0	7
Interior	NON	S	4 LCL	0	0	
Interior	NON	S	5 UCL	274	0	27
Interior	NON	S	6 OUT			
Interior	NON	Tot	0 EST	13,297	35,144	48,53
Interior	NON	Tot	1 MEAN	13,429	34,983	48,53
Interior	NON	Tot	2 %BIAS	-1	0	
Interior	NON	Tot	3 STD	1,778	3,526	3,58
Interior	NON	Tot	4 LCL	10,191	28,754	41,96
Interior	NON	Tot	5 UCL	17,034	42,483	55,68
Interior	NON	Tot	6 OUT		-	
Interior	RES	F	0 EST	7,479	147,342	154,82
Interior	RES	F	1 MEAN	7,498	147,059	154,87
Interior	RES	F	2 %BIAS	0	0	
Interior	RES	F	3 STD	2,200	7,942	7,92

Appendix I2.—Page 4 of 5.

					DF estimates	
region	RESTYPE	WATERTYP	type	guided	private	total
Interior	RES	F	4 LCL	3,745	132,137	140,110
Interior	RES	F	5 UCL	12,294	163,233	171,665
Interior	RES	F	6 OUT			
Interior	RES	S	0 EST	0	33	675
Interior	RES	S	1 MEAN	0	34	675
Interior	RES	S	2 %BIAS	0	-3	0
Interior	RES	S	3 STD	0	34	267
Interior	RES	S	4 LCL	0	0	245
Interior	RES	S	5 UCL	0	102	1,263
Interior	RES	S	6 OUT			
Interior	RES	Tot	0 EST	7,479	147,375	155,496
Interior	RES	Tot	1 MEAN	7,498	147,094	155,553
Interior	RES	Tot	2 %BIAS	0	0	0
Interior	RES	Tot	3 STD	2,200	7,943	7,953
Interior	RES	Tot	4 LCL	3,745	132,171	140,790
Interior	RES	Tot	5 UCL	12,294	163,267	172,185
Interior	RES	Tot	6 OUT			
Cook Inlet	NON	F	0 EST	98,859	274,835	373,694
Cook Inlet	NON	F	1 MEAN	98,780	274,475	373,256
Cook Inlet	NON	F	2 %BIAS	0.08	0.13	0.12
Cook Inlet	NON	F	3 STD	5,825	12,407	14,378
Cook Inlet	NON	F	4 LCL	87,850	251,260	345,795
Cook Inlet	NON	F	5 UCL	110,628	299,934	402,946
Cook Inlet	NON	F	6 OUT			
Cook Inlet	NON	S	0 EST	69,694	38,488	108,182
Cook Inlet	NON	S	1 MEAN	69,762	38,417	108,179
Cook Inlet	NON	S	2 %BIAS	-0.10	0.18	0.00
Cook Inlet	NON	S	3 STD	2,913	2,699	3,338
Cook Inlet	NON	S	4 LCL	63,992	33,335	101,224
Cook Inlet	NON	S	5 UCL	75,364	43,649	114,813
Cook Inlet	NON	S	6 OUT			
Cook Inlet	RES	F	0 EST	40,706	580,628	621,334
Cook Inlet	RES	F	1 MEAN	40,677	580,309	620,986
Cook Inlet	RES	F	2 %BIAS	0.07	0.05	0.06
Cook Inlet	RES	F	3 STD	3,739	15,862	16,123
Cook Inlet	RES	F	4 LCL	33,446	549,734	589,571
Cook Inlet	RES	F	5 UCL	48,070	612,355	651,933
Cook Inlet	RES	F	6 OUT			
Cook Inlet	RES	S	0 EST	23,452	117,414	140,918
Cook Inlet	RES	S	1 MEAN	23,474	117,499	141,145
Cook Inlet	RES	S	2 %BIAS	-0.09	-0.07	-0.16
Cook Inlet	RES	S	3 STD	1,988	6,112	6,089
Cook Inlet	RES	S	4 LCL	19,703	105,827	129,441
Cook Inlet	RES	S	5 UCL	27,591	129,681	152,683
Cook Inlet	RES	S	6 OUT			
State	NON	F	0 EST	189,336	412,982	602,413
State	NON	F	1 MEAN	189,207	412,219	601,561
State	NON	F	2 %BIAS	0	0	0
State	NON	F	3 STD	7,995	13,418	16,033
State	NON	F	4 LCL	173,413	387,796	571,064
State	NON	F	5 UCL	204,908	439,652	632,495
State	NON	F	6 OUT	<u> </u>		
State	NON	S	0 EST	275,038	203,537	478,575
State	NON	S	1 MEAN	275,141	203,229	478,403
State	NON	S	2 %BIAS	0	0	0
State State	NON NON	S	3 STD 4 LCL	6,106 263,244	6,704 190,922	7,043 464,666

Appendix I2.—Page 5 of 5.

				DF estimates		
region	RESTYPE	WATERTYP	type	guided	private	total
State	NON	S	5 UCL	287,676	216,320	492,033
State	NON	S	6 OUT			
State	NON	Tot	0 EST	464,375	616,518	1,080,988
State	NON	Tot	1 MEAN	464,348	615,448	1,079,964
State	NON	Tot	2 %BIAS	0	0	0
State	NON	Tot	3 STD	9,519	14,508	16,321
State	NON	Tot	4 LCL	446,233	585,874	1,048,914
State	NON	Tot	5 UCL	483,082	644,151	1,111,739
State	NON	Tot	6 OUT			
State	RES	F	0 EST	56,443	832,688	889,131
State	RES	F	1 MEAN	55,815	832,469	889,214
State	RES	F	2 %BIAS	1	0	0
State	RES	F	3 STD	4,685	18,082	18,152
State	RES	F	4 LCL	46,709	798,501	854,634
State	RES	F	5 UCL	65,572	867,952	924,425
State	RES	F	6 OUT			•
State	RES	S	0 EST	71,572	501,272	573,555
State	RES	S	1 MEAN	71,668	501,668	574,241
State	RES	S	2 %BIAS	0	0	0
State	RES	S	3 STD	4,889	14,854	15,046
State	RES	S	4 LCL	63,136	474,096	546,086
State	RES	S	5 UCL	81,383	530,146	603,300
State	RES	S	6 OUT			
State	RES	Tot	0 EST	128,015	1,333,960	1,462,686
State	RES	Tot	1 MEAN	127,484	1,334,137	1,463,455
State	RES	Tot	2 %BIAS	0	0	0
State	RES	Tot	3 STD	6,780	21,733	21,452
State	RES	Tot	4 LCL	114,639	1,294,044	1,421,760
State	RES	Tot	5 UCL	141,432	1,375,794	1,504,416
State RES	Tot	6 OUT				

# APPENDIX J: NUMBER OF USABLE RESPONSES WITHIN EACH ANALYSIS STRATA.

Table J1 presents the number of survey respondents who reported fishing activity, by analysis strata, including region of residence, type of water fished, and whether or not the reported fishing trip was guided. Cells highlighted in red indicate those analysis strata for which estimates are not reported due to small sample size.

Appendix J1.-Number of survey respondents reporting fishing activity by analysis strata.

	Survey Respondents' Region of Residency						
Analysis region	Southeast Southcentral			Interior			
Map area	а	b	С	d	е	f	
Resident - guided							
FRESHWATER	2	14	34	4	4	0	
SALTWATER	4	43	50	2	1	0	
Resident - unguided	·						
FRESHWATER	37	56	438	31	146	19	
SALTWATER	186	157	171	31	5	0	
Nonresident - unguided							
FRESHWATER	36	51	205	36	42	26	
SALTWATER	160	63	87	6	5	1	
Nonresident - guided							
FRESHWATER	66	122	378	73	40	20	
SALTWATER	413	185	316	24	22	1	
Resident guided and unguided							
FRESHWATER	39	70	472	35	150	19	
SALTWATER	190	200	221	33	6	0	
Nonresident guided and unguided							
FRESHWATER	102	173	583	109	82	46	
SALTWATER	573	248	403	30	27	2	

less than 50 respondents
less than 70
Estimates not reportable

# APPENDIX K: ALLOCATION PROCEDURES FOR GENERATION OF THE ANGLER SURVEY SAMPLE

The following tables present five separate spreadsheets (SAMPLING STRATEGY, RESNRES SPLIT, EARLYLATE, RESPONSERATES, and FISHALL). We provide two versions of each spreadsheet; one provides the numerical results (denoted as the results version) while the other presents the formula and links used (denoted as the formula version). The SAMPLING STRATEGY spreadsheet contains all of the calculations, and the links to the other four spreadsheets, used to allocate the draw of 7,500 to individual strata. The RESNRES SPLIT spreadsheet contains the data and calculations to derive a five-year average of the proportion of anglers that are Alaska residents and those that are nonresidents. The EARLYLATE spreadsheet contains the data and calculations to derive a six-year average of the proportion of fishing licenses that were issued early (before May 1<sup>st</sup>) or late (after May 1<sup>st</sup>). The RESPONSERATES spreadsheet contains the data and calculations used to estimate the likely response rate for each of the three survey mailings (across residency and time of license sale); these mailing-specific response rate calculations are based upon actual mailing-specific response rates to a similar length fishing survey administered by ADF&G during 2004. The FISHALL spreadsheet provides the calculations used to determine the percent distribution of angler effort across the various fishing regions and by type of water fished (fresh/salt).

ALLOCATION OF RESIDENT AND NON-RESIDENT FISHING TO REGION FOR SAMPLING STRATEGY

#### Filename: Sampling Strategy.xls

The tables included in this Appendix provided detailed information on how the survey sample for the 2007 angler expenditure survey was allocated by residency and season of year to provide generalizable survey results for sportfishing expenditures by licensed anglers in Alaska. The sampling strategy developed was based on a number of ADF&G, Division of Sport Fish data sources which are described below.

#### **ADF&G Data Sources for Sampling Strategy.xls**

**Angler Data\_SF11\_06.xls**: A Division of Sport Fish spreadsheet file containing historical angling statistics by year and strata (e.g., licenses sales, unique licensed angler counts, estimated number of anglers, etc.) from a variety of ADF&G research projects and databases which is updated annually.

- a) PIDs spreadsheet contains number of Alaska Permanent Identification cards (PIDs) issued in a given year
- b) Licensed Anglers (Lic File) spreadsheet contains a summary of unique individuals who purchased an Alaska sportfishing in a given year by residency. Data source: ADF&G Historical License Database

**SalesByMonthAndRes\_EconStudy2007\_5yr\_average.xls**: A Division of Sport Fish spreadsheet file containing results of an ad hoc analysis conducted to show the distribution of Alaska sport fishing license sales by month within residency groups for the years 1996-2006, and the distribution of license sales by month for the 5-year average from 2002-2006.

**2006SWHS-SampleSizeANDCalendar.xls**: A Division of Sport Fish spreadsheet file that contains the detailed sample allocation strategy and mailing dates for the 2006 DSF Statewide Harvest Survey. The 'split between ASSETS-Other' spreadsheet contains the relative size of the nonresident angler strata in Alaska based on recent three-year average (2002-2004).

**NT\_DF\_2005\_subregion\_strata\_comg\_resregion\_ed.xls:** A Division of Sport Fish spreadsheet file that contains a summary of the estimated total number of trips and total number of angler days fished in Alaska within each of the primary economic study regions by residency, water type (freshwater, saltwater) fished, and whether guided or unguided based upon the 2005 DSF Statewide Harvest Survey.

Appendix K1.–Sampling Strategy, results version.

# RESULTS VERSION

D	Е	F	G	Н	I	J	L
	INITIAL DRAW						ESTIMATED
12	OF 7500						NUMBER OF
13						REGION AND	OBSERVATIONS
						WATER TYPE OF	BY RESIDENCY,
14					RESIDENCY	FISHING	FISHING
				ESTIMATED			LOCATION AND
	RESIDENT &			RESPONSE			EARLY-LATE
15	PIDS <sup>A</sup>		$EARLY^{B}$	RATE <sup>C</sup>	SOUTHEAST <sup>D</sup>	SE-FRESH <sup>E</sup>	SPLITS
16	0.43		0.21	0.45	0.13	0.23	9
17	0.15		V.= 1	00	0.15	SE-SALT	
18						0.74	29
19						SC-1	
20						0.01	0
21						SC-COOK	v
22						0.01	0
23						INTER	v
24						0.01	0
25			LATE			SE-FRESH	v
26			0.79	0.36		0.23	27
27						SE-SALT	
28						0.74	85
29						SC-1	
30						0.01	1
31						SC-COOK	
32						0.01	1
33						INTER	
34						0.01	1
					SOUTH		
35					CENTRAL		
36			EARLY		0.70	SE-FRESH	
37						0.00	1
38						SE-SALT	
39						0.01	2
40						SC-1	

Appendix K1.–Page 2 of 4.

D	Е	F	G	Н	I	J	L
41						0.43	93
42						SC-COOK	
43						0.53	113
44						INTER	
45						0.03	7
46			LATE			SE-FRESH	
47						0.00	3
48						SE-SALT	
49						0.01	6
50						SC-1	
51						0.43	277
52						SC-COOK	
53						0.53	338
54						INTER	
55						0.03	20
56					INTERIOR		
57			EARLY		0.17	SE-FRESH	
58						0.00	0
59						SE-SALT	
60						0.01	1
61						SC-1	
62						0.37	19
63						SC-COOK	
64						0.13	7
65						INTER	
66						0.49	25
67			LATE			SE-FRESH	
68						0.00	0
69						SE-SALT	
70						0.01	2
71						SC-1	
72						0.37	57
73						SC-COOK	
74						0.13	21
75						INTER	

Appendix K1.—Page 3 of 4.

D	endix K1.–Page 3 of 4.	F	G	Н	I	J	L
76						0.49	76
		OTHER US					
77	NONRESIDENTS	RESIDENTS <sup>F</sup>	LATE			SE-FRESH	
78	0.57	0.94	1.00	0.47		0.04	84
79						SE-SALT	
80						0.25	476
81						SC-1	-
82						0.33	629
83						SC-COOK	
84						0.33	630
85						INTER	
86						0.04	74
87		CANADIAN	LATE			SE-FRESH	
88		0.03	1.00	0.50		0.13	8
89		0.03	1.00	0.50		SE-SALT	
90						0.20	12
91						SC-1	
92						0.25	15
93						SC-COOK	10
94						0.37	22
95						INTER	
96						0.06	3
70		OTHER				0.00	<u>v</u>
97		FOREIGN	LATE			SE-FRESH	
98		0.04	1.00	0.29		0.13	6
99		0.01	1.00	0.27		SE-SALT	•
100						0.20	9
101						SC-1	
102						0.25	11
103						SC-COOK	1.1
103						0.37	16
105		+				INTER	10
105						0.06	2

-continued-

Appendix K1.-Page 4 of 4.

N	0	Р	Q
10	SUMMARY		
11			
12			
13	ESTIMATED TO	TAL OBSERVATIONS BY RESIDENCY AN	D LOCATION OF FISHING
14		<u>RES</u>	<u>NRES</u>
15	SE-FRESH	40	98
16	SE-SALT	124	497
17			
18	SC-1	448	655
19	SC-COOK	480	669
20			
21	INTERIOR	129	80
22			
23	TOTAL, by residency	1221	1998
24	GROSS:	3219	

- A Resident and non-resident split based upon a five-year average (2001-05) split between resident licensed anglers plus PIDS issued and non-resident licensed anglers. These data are from the 'PIDs' spreadsheet and the 'Licensed Anglers (Lic File)' spreadsheet located in the "Angler Data\_SF11\_06" excel file. Data used for the calculation recreated in the RESNRES SPLIT spreadsheet in Sampling Strategy.xls.
- B Early late splits for residents based upon those presented in the 'salesbymonth table' spreadsheet located in the "SalesByMonthAndRes\_EconStudy2007\_5yr\_average.xls" file. Calculated split is based on a a five-year average (2002-06). November & December sales allocated to Early. Weight for non-residents is equal to one since we only survey them in the late season. Data used for the calculation recreated in the EARLYLATE spreadsheet in Sampling Strategy.xls.
- C Response rate estimates are calculated based upon data presented in the "2006SWHS-SampleSizeANDCalender.xls" file. Calculations are shown in the RESPONSERATES spreadsheet in Sampling Strategy.xls.
- D Resident split by region based upon a five-year average (2001-05). These data are from the 'Licensed Anglers (Lic File)' spreadsheet located in the "Angler Data SF11 06.xls" file.
- E Allocation of resident and non-resident fishing to region based on the "NT\_DF\_2005\_subregion\_strata\_comb\_resregion\_ed.xls" spreadsheet. Calculations shown in FISHALL spreadsheet in Sampling Strategy.xls. Note: unknown residency is not allocated to any group.
- F Calculations to split non-resident by type based upon two data series:1) 'Split between ASSETS-OTHER' spreadsheet in the "2006SWHS-SampleSizeANDCalendar.xls" file and 2) 'Total Anglers(SWHS)' spreadsheet in the "Angler Data\_SF11\_06.xls" file. In the first, a three-year average (2002-04) split is provided between all three non-resident angler types. In the second, a five-year average (2001-05) split between other US and Foreign (it is assumed that Foreign here includes both Canadian and Foreign anglers). The numbers here use the second data series to calculate the split between the 'other US non-residents' and the 'Canadian/Foreign combined non-residents'. The first data series is used to split the 'Canadian/Foreign combined non-residents' into its individual components

226

# Appendix K2.–Sampling Strategy, formula version.

#### FORMULA VERSION.

D	Е	F	G	Н	I	J	L
12	INITIAL DRAW OF 7500						
13							
						REGION AND	
						WATER TYPE	ESTIMATED NUMBER OF
14					RESIDENCY	OF FISHING	OBSERVATIONS BY
				ESTIMATED			RESIDENCY, FISHING
				RESPONSE	SOUTHEAST		LOCATION AND EARLY-
15	RESIDENT & PIDS <sup>A</sup>		EARLY	$RATE^{C}$	D	SE-FRESH <sup>E</sup>	LATE SPLITS
				=responserates!			=E\$12*E\$16*G\$16*H\$16*I\$1
16	='resnres split'!I8		=earlylate!G10	E15	0.13	=fishall!J33	6*J16
17	=ROUND(\$E\$12*E16,0)		=ROUND(E\$17*G16,0)			SE-SALT	
							=E\$12*E\$16*G\$16*H\$16*I\$1
18						=fishall!K33	6*J18
19						SC-1	
							=E\$12*E\$16*G\$16*H\$16*I\$1
20						=fishall!L33	6*J20
21						SC-COOK	
							=E\$12*E\$16*G\$16*H\$16*I\$1
22						=fishall!M33	6*J22
23						INTERIOR	
							=E\$12*E\$16*G\$16*H\$16*I\$1
24						=fishall!N33	6*J24
25			LATE			SE-FRESH	
				=responserates!I			=E\$12*E\$16*G\$26*H\$26*I\$1
26			=earlylate!H10	15		=J16	6*J26
27			=ROUND(E\$17*G26,0)			SE-SALT	
							=E\$12*E\$16*G\$26*H\$26*I\$1
28						=J18	6*J28
29						SC-1	
							=E\$12*E\$16*G\$26*H\$26*I\$1
30						=J20	6*J30
31						SC-COOK	
							=E\$12*E\$16*G\$26*H\$26*I\$1
32						=J22	6*J32
33						INTER	

Appendisx K2.-Page 2 of 5

	x K2.–Page 2 of 5.				<u> </u>	r	1
D	Е	F	G	Н	I	J	L
							=E\$12*E\$16*G\$26*H\$26*I\$1
34						=J24	6*J34
35					SC RES		
36			EARLY		0.70	SE-FRESH	
							=E\$12*E\$16*G\$16*H\$16*I\$3
37						=fishall!J42	6*J37
38						SE-SALT	
30						SE SHET	=E\$12*E\$16*G\$16*H\$16*I\$3
39						=fishall!K42	6*J39
40						SC-1	0 337
40						SC-1	=E\$12*E\$16*G\$16*H\$16*I\$3
4.1						=fishall!L42	
41							6*J41
42						SC-COOK	
							=E\$12*E\$16*G\$16*H\$16*I\$3
43						=fishall!M42	6*J43
44						INTERIOR	
							=E\$12*E\$16*G\$16*H\$16*I\$3
45						=fishall!N42	6*J45
46			LATE			SE-FRESH	
							=E\$12*E\$16*G\$26*H\$26*I\$3
47						=J37	6*J47
48						SE-SALT	
						00000000	=E\$12*E\$16*G\$26*H\$26*I\$3
49						=J39	6*J49
50						SC-1	0 317
30						BC-1	=E\$12*E\$16*G\$26*H\$26*I\$3
51						=J41	6*J51
52						SC-COOK	0.331
32						SC-COOK	E0104E01(4C00(41100(4100)
52						142	=E\$12*E\$16*G\$26*H\$26*I\$3
53						=J43	6*J53
54						INTER	
							=E\$12*E\$16*G\$26*H\$26*I\$3
55						=J45	6*J55
56					INTERIOR		
57			EARLY		0.17	SE-FRESH	
							=E\$12*E\$16*G\$16*H\$16*I\$5
58						=fishall!J51	7*J58
59						SE-SALT	
3,				J	j.	JE STILL	J

	2.–Page 3 of 5.						
D	E	F	G	Н	I	J	L
							=E\$12*E\$16*G\$16*H\$16*I\$5
60						=fishall!K51	7*J60
61						SC-1	
							=E\$12*E\$16*G\$16*H\$16*I\$5
62						=fishall!L51	7*J62
63						SC-COOK	
							=E\$12*E\$16*G\$16*H\$16*I\$5
64						=fishall!M51	7*J64
65						INTER	
							=E\$12*E\$16*G\$16*H\$16*I\$5
66						=fishall!N51	7*J66
67			LATE			SE-FRESH	
							=E\$12*E\$16*G\$26*H\$26*I\$5
68						=J58	7*J68
69						SE-SALT	
							=E\$12*E\$16*G\$26*H\$26*I\$5
70						=J60	7*J70
71						SC-1	
							=E\$12*E\$16*G\$26*H\$26*I\$5
72						=J62	7*J72
73						SC-COOK	
							=E\$12*E\$16*G\$26*H\$26*I\$5
74						=J64	7*J74
75						INTER	
							=E\$12*E\$16*G\$26*H\$26*I\$5
76						=J66	7*J76
77	NONRESIDENTS	OTHER US	LATE			SE-FRESH	
				=responserates!			=E\$12*E\$78*F\$78*G\$78*H\$7
78	='resnres split'!J8	0.94	1	Q15		=fishall!J22	8*J78
79	=ROUND(\$E\$12*E78,0)		=ROUND(E\$79*F78,0)			SE-SALT	
	( )						=E\$12*E\$78*F\$78*G\$78*H\$7
80						=fishall!K22	8*J80
81						SC-1	
							=E\$12*E\$78*F\$78*G\$78*H\$7
82						=fishall!L22	8*J82
83						SC-COOK	
							=E\$12*E\$78*F\$78*G\$78*H\$7
84						=fishall!M22	8*J84
85						INTER	
			aontinuo	1		11 ( 1 1 1 1 1	1

Appendix K2.–Page 4 of 5

D	2Page 4 of 5 E	F	G	Н	I	J	L
			-				=E\$12*E\$78*F\$78*G\$78*H\$7
86						=fishall!N22	8*J86
87		CANADIAN	LATE			SE-FRESH	
				=responserates!I			=E\$12*E\$78*F\$88*G\$88*H\$8
88		0.03	1	41		=fishall!J11	8*J88
89			=ROUND(E\$79*F88,0)			SE-SALT	
							=E\$12*E\$78*F\$88*G\$88*H\$8
90						=fishall!K11	8*J90
91						SC-1	
							=E\$12*E\$78*F\$88*G\$88*H\$8
92						=fishall!L11	8*J92
93						SC-COOK	
							=E\$12*E\$78*F\$88*G\$88*H\$8
94						=fishall!M11	8*J94
95						INTER	
							=E\$12*E\$78*F\$88*G\$88*H\$8
96						=fishall!N11	8*J96
		OTHER					
97		FOREIGN	LATE			SE-FRESH	
0.0		0.04		=responserates!		700	=E\$12*E\$78*F\$98*G\$98*H\$9
98		0.04	I (DATA (DATA) (DATA (DATA) (DATA (DATA) (DATA (DATA) (DATA (DATA)	Q41		=J88	8*J98
99			=ROUND(E\$79*F98,0)			SE-SALT	
100						100	=E\$12*E\$78*F\$98*G\$98*H\$9
100						=J90	8*J100
101						SC-1	E#104E#704E#004@#004II#0
102						=J92	=E\$12*E\$78*F\$98*G\$98*H\$9 8*J102
							8*J102
103	-					SC-COOK	=E\$12*E\$78*F\$98*G\$98*H\$9
104						=J94	=E\$12*E\$/8*F\$98*G\$98*H\$9 8*J104
104						INTER	0°J104
103						INIEK	=E\$12*E\$78*F\$98*G\$98*H\$9
106						=J96	8*J106
100						-190	8.1100

# Appendix K2.–Page 5 of 5.

N	0	Р	Q				
10	SUMMARY						
11	ESTIMATED TOTAL OBSERVATIONS BY RESIDENCY AND LOCATION OF FISHING						
12							
13							
14		RES	NRES				
15	SE-FRESH	=L16+L26+L37+L47+L58+L68	=L78+L88+L98				
16	SE-SALT	=L18+L28+L39+L49+L60+L70	=L80+L90+L100				
17							
18	SC-1	=L20+L30+L41+L51+L62+L72	=L82+L92+L102				
19	SC-COOK	=L22+L32+L43+L53+L64+L74	=L84+L94+L104				
20							
21	INTERIOR	=L24+L34+L45+L55+L66+L76	=L86+L96+L106				
22							
	TOTAL, by						
23	residency	=SUM(P15:P21)	=SUM(Q15:Q21)				
24	GROSS:	=P23+Q23					

232

Appendix K3.—Generation of resident/nonresident split for sampling strategy, **RESNRES SPLIT**.

#### RESULTS VERSION

	В	С	D	Е	F	G	Н	I	J
				TOTAL		TOTAL			
			RESIDENT	RESIDENT	NONRESIDENT	RESIDENT &			
		DAV/PIDS	LICENSES	LICENSES	LICENSES	NONRESIDENT		PERCENT	PERCENT
		ISSUED	ISSUED	ISSUED	ISSUED	ISSUED		RESIDENT	NONRESIDENT
3	2001	3,976	178,947	182,923	236,488	419,411		0.436	0.564
4	2002	4,253	178,422	182,675	241,419	424,094		0.431	0.569
5	2003	4,934	184,575	189,509	235,515	425,024		0.446	0.554
6	2004	4,637	189,552	194,189	272,377	466,566		0.416	0.584
7	2005	4,052	189,089	193,141	284,154	477,295		0.405	0.595
								$0.427^{\mathrm{A}}$	$0.573^{B}$
FORMUL	A VERSION	7							
				TOTAL		TOTAL			
			RESIDENT	RESIDENT	NONRESIDENT	RESIDENT &			
		DAV/PIDS	LICENSES	LICENSES	LICENSES	NONRESIDENT		PERCENT	PERCENT
		ISSUED	ISSUED	ISSUED	ISSUED	ISSUED		RESIDENT	NONRESIDENT
	2001	3,976	178,947	=SUM(B3:C3)	236,488	=SUM(D3:E3)		=D3/F3	=E3/F3
	2002	4,253	178,422	=SUM(B4:C4)	241,419	=SUM(D4:E4)		=D4/F4	=E4/F4
	2003	4,934	184,575	=SUM(B5:C5)	235,515	=SUM(D5:E5)		=D5/F5	=E5/F5
	2004	4,637	189,552	=SUM(B6:C6)	272,377	=SUM(D6:E6)		=D6/F6	=E6/F6
	2005	4,052	189,089	=SUM(B7:C7)	284,154	=SUM(D7:E7)		=D7/F7	=E7/F7
						_	•	=SUM(I3:I7)/5	=SUM(J3:J7)/5

A Used in cell E16 in the SAMPLING STRATEGY spreadsheet

B Used in cell E78 in the SAMPLING STRATEGY spreadsheet

233

Appendix K4.—Generation of early/late split for sampling strategy, **EARLYLATE**.

#### RESULTS VERSION

	В	С	D	Е	F	G	Н
		NUMBER OF	NUMBER OF	TOTAL		PERCENT OF	
		EARLY	LATE	NUMBEROF		LICENCED	PERCENT OF
		LICENSED	LICENSED	LICENSED		ISSUED	LICENCED
		ISSUED	ISSUED	ISSUED		EARLY	ISSUED LATE
4	2001	38,701	144,604	183,305		0.211	0.789
5	2002	37,757	145,108	182,865		0.206	0.794
6	2003	41,848	147,492	189,340		0.221	0.779
7	2004	38,899	155,099	193,998		0.201	0.799
8	2005	43,143	150,073	193,216		0.223	0.777
9	2006	40,396	144,980	185,376		0.218	0.782
10						0.213 <sup>A</sup>	0.787 <sup>B</sup>
FORMUL	A VERSION						
	2001	38701	144604	=SUM(C4:D4)		=C4/E4	=D4/E4
	2002	37757	145108	=SUM(C5:D5)		=C5/E5	=D5/E5
	2003	41848	147492	=SUM(C6:D6)		=C6/E6	=D6/E6
	2004	38899	155099	=SUM(C7:D7)		=C7/E7	=D7/E7
	2005	43143	150073	=SUM(C8:D8)		=C8/E8	=D8/E8
	2006	40396	144980	=SUM(C9:D9)	_	=C9/E9	=D9/E9
	1: 11 646:	1 9 1 1 1 1 1 1				=SUM(G4:G9)/6	=SUM(H4:H9)/6

A Used in cell G16 in the SAMPLING STRATEGY spreadsheet

B Used in cell G26 in the SAMPLING STRATEGY spreadsheet

Appendix K5.—Generation of expected response rates for sampling strategy, **RESPONSERATES.** 

**RESULTS VERSION - EARLY RESIDENT** 

	В	C	D	Е		
7			t			
8				1		
9	Wave 1	$0.27^{A}$	$0.95^{B}$	0.25		
10				0.75		
11	Wave 2	0.20	0.95	0.14		
12				0.61		
13	Wave 3	0.10	0.95	0.05		
14						
15	Cumul	Cumulative response rate		0.45 <sup>C</sup>		
FORMULA	A VERSION					
	Wave 1	0.27	0.95	=C9*D9		
				=E8-E9		
	Wave 2	0.20	0.95	=E10*C11*D11		
				=E10-E11		
	Wave 3	0.10	0.95	=E12*C13*D13		
				=(E9+E11+E13)		

A Wave specific response rates (for Resident and Other USA) are from the 'AK & Other USA' spreadsheet (column P); "2006SWHS-SampleSizeANDCalender.xls" file. These response rates are based on actual 2004 wave specific response rates.

- B To be conservative, all response rates discounted by 0.95
- C Used in cell H16 in the SAMPLING STRATEGY spreadsheet.

**RESULTS VERSION - LATE RESIDENT** 

	F	G	Н	I
7				
8				1
9	Wave 1	$0.20^{A}$	$0.95^{B}$	0.19
10				0.81
11	Wave 2	0.17	0.95	0.13
12				0.68
13	Wave 3	0.06	0.95	0.04
14				
15				0.36 <sup>C</sup>
FORMULA	A VERSION			
	Wave 1	0.20	0.95	=G9*H9
				=18-19
	Wave 2	0.17	0.95	=I10*G11*H11
				=I10-I11
	Wave 3	0.06	0.95	=I12*G13*H13
				=(19+111+113)

- A Wave specific response rates (for Resident and Other USA) are from the 'AK & Other USA' spreadsheet (column P); "2006SWHS-SampleSizeANDCalender.xls" file. These response rates are based on actual 2004 wave specific response rates.
- B To be conservative, all response rates discounted by 0.95
- C Used in cell H26 in the SAMPLING STRATEGY spreadsheet

**RESULTS VERSION - LATE OTHER USA** 

	N	0	P	Q
7				
8				1
9	Wave 1	$0.31^{A}$	$0.95^{B}$	0.29
10				0.71
11	Wave 2	0.20	0.95	0.14
12				0.57
13	Wave 3	0.08	0.95	0.04
14				
15				<b>0.47</b> <sup>C</sup>
FORMULA	A VERSION			
	Wave 1	0.31	0.95	=O9*P9
				=Q8-Q9
	Wave 2	0.20	0.95	=Q10*O11*P11
				=Q10-Q11
	Wave 3	0.08	0.95	=Q12*O13*P13
		· · · · · · · · · · · · · · · · · · ·		=(Q9+Q11+Q13)

- A Wave specific response rates (for Resident and Other USA) are from the 'AK & Other USA' spreadsheet (column P); "2006SWHS-SampleSizeANDCalender.xls" file. These response rates are based on actual 2004 wave specific response rates.
- B To be conservative, all response rates discounted by 0.95
- C Used in cell H78 in the SAMPLING STRATEGY spreadsheet

**RESULTS VERSION - LATE CANADA** 

	F	G	Н	I
33				
34				1
35	Wave 1	$0.32^{A}$	$0.95^{B}$	0.31
36				0.69
37	Wave 2	0.23	0.95	0.15
38				0.54
39	Wave 3	0.09	0.95	0.05
40				
41				0.50 <sup>C</sup>
FORMUL	A VERSION			
	Wave 1	0.32	0.95	=I34*G35*H35
				=134-135
	Wave 2	0.23	0.95	=I36*G37*H37
				=136-137
	Wave 3	0.09	0.95	=I38*G39*H39
				=(I35+I37+I39)

- A Wave specific response rates (for Resident and Other USA) are from the 'AK & Other USA' spreadsheet (column P); "2006SWHS-SampleSizeANDCalender.xls" file. These response rates are based on actual 2004 wave specific response rates.
- B To be conservative, all response rates discounted by 0.95
- C Used in cell H88 in the SAMPLING STRATEGY spreadsheet

**RESULTS VERSION - LATE FOREIGN** 

	N	0	P	Q
33				
34				1
35	Wave 1	$0.17^{A}$	$0.95^{B}$	0.16
36				0.84
37	Wave 2	0.13	0.95	0.11
38				0.73
39	Wave 3	0.04	0.95	0.02
40				
41				0.29 <sup>C</sup>
FORMULA	A VERSION			
	Wave 1	0.17	0.95	=Q34*O35*P35
				=Q34-Q35
	Wave 2	0.13	0.95	=Q36*O37*P37
				=Q36-Q37
	Wave 3	0.04	0.95	=Q38*O39*P39
				=(Q35+Q37+Q39)

- A Wave specific response rates (for Resident and Other USA) are from the 'AK & Other USA' spreadsheet (column P); "2006SWHS-SampleSizeANDCalender.xls" file. These response rates are based on actual 2004 wave specific response rates.
- B To be conservative, all response rates discounted by 0.95.
- C Used in cell H98 in the SAMPLING STRATEGY spreadsheet

Appendix K6.–Allocation of resident and non-resident fishing to region for sampling strategy, **FISHALL**.

### RESULTS VERSION

	В	С	D	J	K	L	M	N
			TOTAL					
	RESIDENCY	WATER TYPE	NUMBER OF			% FISHING		
	RESIDENCY	WATERTYPE	ANGLERS	SE-F	SE-S	% FISHING SC-other	SC anals	INTERIOR
	CANADIAN			SE-F	SE-S	SC-other	SC-cook	INTERIOR
4	& FOREIGN	FRESH	2,751					
5		SALT	4,337					
6		FRESH	6,987					
7		SALT	917					
8		FRESH	1,130					
9		SALT	4,183					
10		FRESH	1,205					
11			21,510	0.128	0.202	0.247	0.367	0.056
14	OTHER US	FRESH	15,991					
15		SALT	90,230					
16		FRESH	95,349					
17		SALT	24,182					
18		FRESH	21,091					
19		SALT	98,290					
20		FRESH	13,906					
21		SALT	74					
22	~ ~ · · · · · · · · · · · · · · · · · ·		359,113	0.045	0.251	0.332	0.333	0.039
26	SOUTHEAST	EDECH	7 771					
26	ALASKA	FRESH	7,771					
27		SALT	24,649					
28 29		FRESH SALT	239 35					
29		SALI	33		1			

# Appendix K6.–Page 2 of 2.

	В	С	D	J	K	L	M	N
			TOTAL NUMBER OF					
	RESIDENCY	WATER TYPE	ANGLERS			% FISHING		
30		FRESH	155					
31		SALT	260					
32		FRESH	211					
33			33,320	0.233	0.740	0.012	0.008	0.006
	SOUTH CENTRAL							
34	ALASKA	FRESH	865					
35		SALT	1,930					
36		FRESH	96,060					
37		SALT	15,709					
38		FRESH	15,413					
39		SALT	76,135					
40		FRESH	6,488					
41		SALT	78					
42			212,678	0.004	0.009	0.430	0.526	0.031
	INTERIOR		4.00					
43	ALASKA	FRESH	120					
44		SALT	496					
45		FRESH	4,187					
46		SALT	1,718					
47		FRESH	581					
48		SALT	15,812					
49		FRESH	21,516					
50		SALT	242					
51			44,672	0.003	0.011	0.367	0.132	0.487

Appendix K7.-Allocation of resident and non-resident fishing to region for sampling strategy, **FISHALL.** 

#### FORMULA VERSION

	В	С	D	J	K	L	M	N
		WATED	TOTAL					
	RESIDENCY	WATER TYPE	NUMBER OF ANGLERS			% FISHIN	JG	
	RESIDENCI	TILL	ANGLERS	SE-F	SE-S	SC-other	SC-cook	INTERIOR
	CANADIAN			SE I	SE S	SC ciner	SC COOK	HVIERGR
4	& FOREIGN	FRESH	2751					
5		SALT	4337					
6		FRESH	6987					
7		SALT	917					
8		FRESH	1130					
9		SALT	4183					
10		FRESH	1205					
11			=SUM(D4:D10)	=D4/D11	=D5/D11	=(D8+D9)/D11	=(D6+D7)/D11	=D10/D11
14	OTHER US	FRESH	15991					
15		SALT	90230					
16		FRESH	95349					
17		SALT	24182					
18		FRESH	21091					
19		SALT	98290					
20		FRESH	13906					
21		SALT	74					
22			=SUM(D14:D21)	=D14/\$D22	=D15/\$D22	=(D18+D19)/\$D22	=(D16+D17)/\$D22	=(D20+D21)/\$D22
26	SOUTHEAST	EDEGH	7771					
26	ALASKA	FRESH	7771					
27		SALT	24649					
28		FRESH	239					
29		SALT	35					

# Appendix K7.–Page 2 of 2.

	В	С	D	J	K	L	M	N
	RESIDENCY	WATER TYPE	TOTAL NUMBER OF ANGLERS			% FISHIN	NG	
30		FRESH	155					
31		SALT	260					
32		FRESH	211					
33			=SUM(D26:D32)	=D26/D33	=D27/D33	=(D30+D31)/D33	=(D28+D29)/D33	=D32/D33
34	SOUTHCENTRAL ALASKA	FRESH	865					
35		SALT	1930					
36		FRESH SALT	96060 15709					
38		FRESH	15413					
39								
40		SALT FRESH	76135 6488					
40		SALT	78					
41		SALI	=SUM(D34:D41)	=D34/\$D42	=D35/\$D42	=(D38+D39)/\$D42	=(D36+D37)/\$D42	=(D40+D41)/\$D42
42			-30M(D34.D41)	-D34/\$D42	-D33/\$D42	-(D36+D39)/\$D42	-(D30+D37)/\$D42	-(D40+D41)/\$D42
43	INTERIOR ALASKA	FRESH	120					
44		SALT	496					
45		FRESH	4187					
46		SALT	1718					
47		FRESH	581					
48		SALT	15812					
49		FRESH	21516					
50		SALT	242					
51			=SUM(D43:D50)	=D43/\$D51	=D44/\$D51	=(D47+D48)/\$D51	=(D45+D46)/\$D51	=(D49+D50)/\$D51

# APPENDIX L: DETAILED ESTIMATES OF AVERAGE SPENDING

The following tables present detailed spending averages for each expenditure category, by region, for each analysis strata. The trip expenditures are the average expenditure in each region per angler-day for residents and nonresidents, by type of water fished, and by use of guides. Average expenditures for equipment are the annual average expenditure in each region per resident and nonresident angler. All figures represent the average spending for all Alaska resident anglers, regardless of where they fished or the region where they live, and by all nonresident anglers who live outside of Alaska regardless of where they fished.

- Statewide average spending
- Southeast Region average spending
- Southcentral Region average spending
- Interior Region average spending
- Cook Inlet Subregion average spending
- Southeast Marine Subregion average spending

Appendix L1.-Average spending by sportfishing anglers in Alaska statewide, 2007

Appendix E1.—Averag	Guided & Unguided	Guided &	Unguided	Resident		Resident	NonResident	NonResident
	Fresh & Salt	Fresh		Unguided		Guided	Unguided	Guided
	Resident & Nonresident	RESIDENT	NONRESIDENT	FRESH SA		FRESH SALT  Igler-day	FRESH SALT	FRESH SALT
licenses	\$ 9.12	\$ 4.54	\$ 15.31	\$ 4.54 \$	4.54	\$ 4.54 \$ 4.54	\$ 15.31 \$ 15.31	\$ 15.31 \$ 15.31
fuel	\$ 36.83	\$ 47.92		\$ 35.47 \$	68.15	\$ 55.43 \$ 45.26	\$ 16.38 \$ 29.19	\$ 26.00 \$ 21.72
guide	\$ 45.61		\$ 77.35	\$ 1.87 \$	1.58	\$ 224.96 \$ 240.73	\$ 10.24 \$ 2.85	\$ 156.94 \$ 178.35
air	\$ 21.52		\$ 47.56	\$ 0.83 \$	0.06	\$ 21.49 \$ 18.81	\$ 35.73 \$ 32.09	\$ 61.86 \$ 66.90
travel	\$ 6.24		\$ 13.92	\$ 0.26 \$	0.50	\$ 5.75 \$ 0.30	\$ 17.53 \$ 4.17	\$ 16.11 \$ 14.23
process	\$ 15.09 \$ 10.62		\$ 26.99 \$ 22.83	\$ 3.38 \$ \$ 1.60 \$	7.76 1.63	\$ 5.65 \$ 30.04 \$ - \$ 2.28	\$ 13.07 \$ 11.03 \$ 19.89 \$ 8.46	\$ 30.89 \$ 56.98 \$ 36.87 \$ 28.21
rentals derby	\$ 10.62	7	\$ 0.47	\$ 0.45 \$	3.50	\$ 0.50 \$ 2.60	\$ 0.18 \$ 0.35	\$ 0.32 \$ 1.10
dock	\$ 6.08		\$ 2.22	\$ 4.29 \$	18.75	\$ 0.42 \$ 1.02	\$ 2.55 \$ 6.07	\$ 0.23 \$ 0.25
ice	\$ 1.89		\$ 1.17	\$ 2.12 \$	2.93	\$ 1.85 \$ 2.94	\$ 1.56 \$ 0.82	\$ 1.12 \$ 0.86
bait	\$ 3.45	\$ 4.48	\$ 2.06	\$ 2.17 \$	9.24	\$ 0.41 \$ 1.25	\$ 1.67 \$ 5.37	\$ 1.12 \$ 0.86
groceries	\$ 23.96		\$ 23.76	\$ 21.80 \$	25.08	\$ 38.66 \$ 32.60	\$ 22.42 \$ 21.93	\$ 29.05 \$ 23.46
meals	\$ 16.46		\$ 24.40	\$ 7.63 \$	8.88	\$ 40.57 \$ 32.92	\$ 16.60 \$ 14.90	\$ 35.76 \$ 35.32
lodging	\$ 22.42		\$ 35.54	\$ 7.40 \$	8.11	\$ 95.84 \$ 41.00	\$ 15.36 \$ 17.93	\$ 63.02 \$ 59.91
gifts	\$ 7.88		\$ 16.03	\$ 1.04 \$	1.55	\$ 6.53 \$ 9.46	\$ 10.58 \$ 8.25	\$ 21.00 \$ 26.56
amusem ent	\$ 3.86 \$ 0.30		\$ 4.79	\$ 1.37 \$	4.93	\$ 11.48 \$ 5.23 \$ - \$ 0.10	\$ 3.34 \$ 2.61 \$ 0.03 \$ 0.04	\$ 9.34 \$ 5.42 \$ 1.17 \$ 1.39
other pkg_air	\$ 0.30 \$ 11.92	\$ 0.09	\$ 0.58 \$ 28.02	\$ 0.06 \$ \$ - \$	0.15	\$ -  \$ 0.10    \$ -  \$ -	\$ 0.03 \$ 0.04 \$ 11.68 \$ 20.80	\$ 1.17 \$ 1.39 \$ 55.71 \$ 38.83
pkg_trans	\$ 2.64		\$ 6.21	\$ -   \$ -   \$	_	\$ -   \$ -	\$ 0.79 \$ 1.11	\$ 14.43 \$ 12.47
pkg_guide	\$ 18.62		\$ 43.78	\$ - \$	_	\$ - \$ -	\$ 2.51 \$ 4.53	\$ 110.89 \$ 88.52
pkg_lodge	\$ 13.55		\$ 31.84	\$ -  \$	-	\$ -  \$ -	\$ 6.80 \$ 7.32	\$ 78.77 \$ 55.24
pkg_meals	\$ 7.41	\$ -	\$ 17.42	\$ -  \$	-	\$ -  \$ -	\$ 4.33 \$ 9.59	\$ 39.82 \$ 27.43
		\$ per licensed angle						
Eq_RodReel	\$ 52.87		\$ 19.44					
Eq_Tackle	\$ 41.53		\$ 23.72					
Eq_Tacklebox	\$ 4.38 \$ 18.78		\$ 1.29 \$ 0.30					
Eq_Electronics Eq_Nets	\$ 8.12		\$ 1.40					
Eq_Misc	\$ 13.99		\$ 6.91					
Eq Shellfish	\$ 5.62		\$ 0.85					
Eq_Taxidermy	\$ 4.78		\$ 2.87					
Eq_Books	\$ 3.89	\$ 6.47	\$ 2.15					
Eq_Preserve	\$ 19.62		\$ 7.88					
Eq_Coolers	\$ 9.88		\$ 5.76					
Eq_Clothing	\$ 20.70 \$ 14.92		\$ 12.14					
Eq_Boots	\$ 14.92 \$ 7.93	7	\$ 5.82 \$ 0.53					
Eq_LJackets	\$ 221.16		\$ 0.53 \$ 14.38					
Eq_Boats Eq_Motors	\$ 79.67		\$ 254					
Eq_Trailers	\$ 16.81		\$ 0.82					
Eq_OtherParts	\$ 32.68		\$ 3.70					
Eq_BearSpray	\$ 3.72		\$ 1.71					
Eq_Firearms	\$ 10.99		\$ 0.29					
Eq_Cameras	\$ 13.00 \$ 7.72		\$ 3.14					
Eq_Tents	\$ 7.72 \$ 66.31		\$ 0.87 \$ 0.06					
Eq_Campers Eq_Other_Camp	\$ 66.31		\$ 1.01					
Eq_Vehicles	\$ 185.72		\$ 14.04					
Eq_Planes	\$ 11.75		\$ 5.16					
Eq_ATV	\$ 55.51	\$ 138.46	\$ -					
Eq_Registration	\$ 11.84	\$ 28.17						
Eq_Repair	\$ 50.44		\$ 5.57					
Eq_Other	\$ 0.49		\$ 0.03					
RE_repair	\$ 105.94 \$ 278.55		\$ 107.00					
RE_construction	\$ 278.55	\$ 279.28	\$ 278.06	1			i l	I I
License expenditures	\$9.12	\$4.54	\$15.31	\$4.54	\$4.54	\$4.54 \$4.54	\$15.31 \$15.31	\$15.31 \$15.3
Trip expenditures (non-package)	\$223.32	\$150.63	\$321.50		\$162.81	\$509.56 \$466.53	\$187.12 \$166.06	\$490.79 \$521.5
Package expenditures	\$54.15	\$0.00	\$127.28	\$0.00	\$0.00	\$0.00 \$0.00	\$26.12 \$43.34	\$299.62 \$222.50
Equipment expenditures	\$1,000.91	\$2,279.55	\$145.27					
Real estate expenditures	\$384.49	\$383.64	\$385.05					

Appendix L2. Average spending by sportfishing anglers in Southeast Alaska, 2007.

		d & Unguided		Guided & U				id ent			Resi				esident			NonRe	
		esh & Salt		Fresh &				uided			Gul				uided			Gui	
	Residen	t & Nonresident		RESIDENT	NONRESIDENT	_	FRESH	SA	S nor		RESH	 ALT	_	FRESH		SALT	_	FRESH	SALT
licenses			Т					T	\$ per	angler-d	A	Λ					T		
fuel	\$	26.54	\$	36.27	\$ 19.90	-   :	10.39	\$	43.83				\$	10.72	\$	38.15	\$	12.28	\$ 10.40
guide	\$	49.85	\$		\$ 77.27		<b>5</b> -	\$	0.51		^	^	\$	12.31	\$	2.82	\$	135.26	\$ 145.97
air	\$	31.76	\$		\$ 53.43			\$			^	^	\$	36.76	\$	44.88	\$	60.50	
travel	\$	7.34	\$		\$ 12.17		0.44	\$	0.26		^	^ l	\$	17.60	\$	6.94	\$	29.98	
process	\$	16.11 4.43	S		\$ 21.29 \$ 7.07		2.48 -	\$	7.67 0.35		^	^	\$	9.52 7.40	\$	6.49 9.30	\$	27.37 9.49	\$ 35.24 \$ 5.02
rentals derby	\$	1.68	s		\$ 0.28		1.89		4.52				\$	0.09	\$	0.35	\$	5.45	\$ 0.32
dock	š	9.12	š		\$ 2.36		0.24	\$	25.01		Α.		\$	5.50	š	4.56	š	_	\$ 0.02
ice	Š	0.66	š		\$ 0.39		0.28		1.36		Α.	Α .	\$	0.56	s s	0.62	\$	0.48	\$ 0.15
bait	\$	4.33	\$		\$ 2.30	-  :	2.94	\$	8.98			^	\$	3.71	\$	4.31	\$	2.73	\$ 0.33
groceries	\$	16.15	\$		\$ 17.74		6.13	\$	16.22		^	^	\$	17.08	\$	24.09	\$	21.63	\$ 12.82
meals	\$	10.94	\$		\$ 17.59		-	\$	1.43		^	^	\$	14.47	\$	19.93	\$	26.13	\$ 15.84
lodging	\$	17.69	\$		\$ 29.44			\$	0.64		î.	^	\$	28.98	\$	22.14	\$	87.66	
gifts	\$	8.79 2.13	\$		\$ 14.64 \$ 3.29		\$ 0.58 \$ 1.33	\$	0.14		^	Â	\$	9.01 2.94	\$	10.01 2.35	\$	10.44 7.00	\$ 20.38 \$ 3.65
amusement other	\$	0.38	s		\$ 0.65		) 1.33 6 -	\$	0.21		Α.	Α.	\$	2.94	\$	0.08	\$	7.00	\$ 1.35
otner pkg_air	\$	12.66	\$		\$ 21.31		• - • -	\$	:		A .	Α.	\$	12.14	\$	9.05	\$	28.77	
pkg trans	\$	4.96	\$		\$ 8.34		· -	\$	:				\$	0.34	s s	1.86	\$	8.67	\$ 15.65
pkg_guide	\$	25.61	\$		\$ 43.08	-   :	-	\$	-		٨	٨	\$	-	\$	7.80	\$	36.31	
pkg_lodge	\$	18.98	\$	-	\$ 31.94		-	\$	-		^	Λ .	\$	7.91	\$	11.48	\$	28.20	\$ 55.20
pkg_meals	\$	11.58	\$	-	\$ 19.48	-   !	\$ -	\$	-		^	^	\$	3.96	\$	6.60	\$	14.04	\$ 34.63
		Annual		licensed angle															
Eq_RodReel	\$	7.50 7.78	\$		\$ 3.84 \$ 5.59														
Eq_Tackle Eq_Tacklebox	\$	0.47	Š		\$ 0.21														
Eq Electronics	š	3.68	Š		\$ 0.14														
Eq_Nets	\$	1.21	š		\$ 0.51														
Eq_Misc	\$	3.37	\$		\$ 2.39														
Eq_Shellfish	\$	1.87	\$		\$ 0.36														
Eq_Taxidermy	\$	0.89	\$		\$ 1.49														
Eq_Books	\$	0.61	\$		\$ 0.58														
Eq_Preserve	\$	2.48	\$		\$ 0.82														
Eq_Coolers Eq_Clothing	\$	1.46 4.75	\$ \$		\$ 0.89 \$ 5.08														
Eq_Clothing Eq_Boots	\$	2.14	Š		\$ 0.93														
Eq_LJackets	\$	1.45	s		\$ 0.20														
Eq_Boats	\$	30.07	š		\$ 6.82														
Eq_Motors	\$	19.74	\$		\$ 0.06														
Eq_Trailers	\$	5.92	\$		\$ 0.12					-	1		1		l				
Eq_OtherParts	\$	6.72	\$		\$ 1.85														
Eq_BearSpray	\$	0.56	\$		\$ 0.25														
Eq_Firearms Eq Cameras	\$	0.92 1.71	\$ \$		\$ - \$ 0.69														
Eq_Cameras Eq_Tents	\$	0.51	\$		\$ 0.04														
Eq_Campers	\$	- 0.51	\$		\$ -														
Eq_Other_Camp	\$	0.87	\$		\$ 0.17														
Eq_Vehicles	\$	14.95	\$	37.01	\$ 0.19														
Eq_Planes	\$	2.74	\$		\$ 1.26														
Eq_ATV	\$	2.75	\$		\$ -														
Eq_Registration	\$	2.02	\$		\$ 0.04														
Eq_Repair	\$	12.71	\$		\$ 3.66														
Eq_Other RE_repair	\$	0.03 56.49	\$ \$		\$ - \$ 73.09														
RE_construction	\$	56.73	\$	70.83															
																		*	
Trip expenditures (non-packa	ge)	\$207.91		\$102.54	\$279.80		\$26.68		\$111.18		\$0.00	\$0.00		\$176.65		\$197.01		\$430.97	\$355.73
Package expenditures Equipment expenditures		\$73.79 \$141.90		\$0.00 \$296.92	\$124.14 \$38.16		\$0.00	1	\$0.00		\$0.00	\$0.00		\$24.35		\$36.79		\$115.99	\$221.62
Real estate expenditures		\$141.90 \$113.21		\$296.92 \$102.50	\$120.38														
real estate exhelialinies		φ113.∠1		φ10∠.00	φ1∠U.36														

Real estate expenditures \$113.21

^Expenditures are not reported due to small sample size.

Appendix L3.-Average spending by sportfishing anglers in Southcentral Alaska, 2007.

	Guided & Un			Guided &				ldent				ident				esiden	nt		NonR		it
	Fresh & S Resident & Nor		-	Fresh RESIDENT	NONRESIDENT	+ +	FRESH	uided SALT		FI	Gui RESH	ided	SALT		FRESH	uided	SALT		FRESH Gu	ded	SALT
									per a	angler-d											
censes		20.75		50.00	e 24.5	.    ,	\$ 37.64	¢ 72.0			50.70		42.42		46.74	_	47.44		25.04		24.00
uel uide	\$ \$	38.75 46.15	\$	50.00 26.79	\$ 21.5 \$ 75.7		\$ 37.64 \$ 2.28	\$ 73.8 \$ 2.1		\$ \$	58.78 258.03	\$	43.13 262.11	\$	16.74 8.61	\$	17.41 2.89	\$ \$	25.91 157.25	\$ \$	31.69 202.38
r r	s	19.39	\$	2.21	\$ 45.6		\$ 2.26 \$ 1.07	\$ -	Ή.	\$		\$	8.71	\$	38.42	\$	17.61	s	61.61	\$	65.49
avel	s	3.98	\$	0.69	\$ 9.0		\$ 0.30	\$ 0.6	2	š	6.96	\$	0.38	\$	5.45	\$	1.02	Š	15.03	\$	16.7
ocess	š	16.33	š	6.54	\$ 31.2		3.93	\$ 7.7		š	6.84	š	28.94	š	14.96	š	16.18	š	33.70	š	81.7
ntals	s	13.37	\$	1.98	\$ 30.7		\$ 2.00	\$ 2.2		š	-	Š	1.68	\$	23.55	\$	7.50	\$	40.95	\$	54.3
erby	\$	1.06	\$	1.40	\$ 0.5		\$ 0.46	\$ 3.0		\$	0.60	\$	3.28	\$	0.12	\$	0.25	\$	0.38	\$	2.0
ck	\$	5.77	\$	8.05	\$ 2.2		\$ 5.31	\$ 15.6		\$		\$	0.84	\$	2.36	\$	7.74	\$	0.27	\$	0.5
•	\$	2.22	\$	2.84	\$ 1.2		\$ 2.45	\$ 3.6		\$	1.82	\$	3.41	\$	1.25	\$	0.93	s	1.21	\$	1.6
it	\$	3.45	\$	4.38	\$ 2.0		\$ 2.39	\$ 9.3		\$	0.35	\$	1.31	\$	1.41	\$	6.57	S	1.00	\$	1.4
oceries	<b>\$</b>	26.70	\$	26.73	\$ 26.6		\$ 24.18	\$ 27.8		\$	41.90	\$	36.67	\$	25.11	\$	16.35	\$	30.01	\$	34.2
eals	\$	18.21	\$	12.95	\$ 26.2		\$ 8.68	\$ 11.7		\$		\$	40.27	\$	15.40	\$	8.63	\$	36.34	\$	54.9
dging	<b>\$</b>	25.16	\$	16.53	\$ 38.3		\$ 8.97	\$ 11.5		\$		\$	51.15	\$	14.05	\$	11.95	s	61.96		91.5
ts	\$	7.36	\$	2.37	\$ 15.0		\$ 1.22	\$ 2.1		\$		\$	11.94	\$	10.22	\$	5.23	S	20.30		28.0
nusem ent	\$	4.42	\$	3.97	\$ 5.1		\$ 1.55	\$ 7.0		\$	12.00	\$	6.60	\$	3.03	\$	2.72	\$	9.32		7.0
her	S S	0.27 11.87	\$	0.08	\$ 0.5 \$ 30.0		\$ 0.07 \$ -	\$ 0.1 \$ -	١,	\$ \$	-	\$	0.12	\$	0.02 12.50	\$	34.10	S	1.34 54.45	\$	1.3 41.8
(g_air (g_trans	s	2.05	\$	_ [	\$ 5.1		» - \$ -	\$ -		\$	-	\$		\$	0.90	\$	0.27	s	14.64	\$	8.1
g guide	s	17.12	\$	_	\$ 43.2		\$ -	\$ -		s		\$		\$	2.91	\$	0.82	\$	115.94	\$	89.0
g_lodge	s	12.43	\$	- 1	\$ 31.4		\$ -	\$ -		\$	-	\$	_	\$	7.19	\$	2.60	s	82.79	\$	51.8
g_meals	š	6.70	š	-	\$ 16.9		\$ -	\$ -		š	-	š	-	š	4.74	š	12.98	š	43.23		18.7
	L		1				-	-		1				•		1		•		•	
		Annual \$	per l	icensed angle	er																
_RodReel	\$	41.04	\$	80.09	\$ 14.9	<u> </u>															
_Tackle	\$	29.90	\$	49.20	\$ 16.9	в															
_Tacklebox	\$	3.36	\$	6.85	\$ 1.0																
_Electronics	\$	14.02	\$	34.74	\$ 0.1																
_Nets	\$	6.39	\$	14.59	\$ 0.9																
_Misc	<b>\$</b>	9.44	\$	17.23	\$ 4.2																
q_Shellfish	\$	3.45	\$	7.88	\$ 0.4																
_Taxidermy	S	3.88	\$	7.63	\$ 1.3																
q_Books	\$   \$	2.88 16.04	\$	4.93 29.60	\$ 1.5 \$ 6.9																
q_Preserve	s	7.59	\$	12.05	\$ 4.6																
q_Coolers	s	14.58	\$	26.52	\$ 6.5																
q_Clothing q_Boots	š	11.70	s	22.33	\$ 4.5																
q_books q LJackets	s	5.91	\$	14.33	\$ 0.2																
g_Boats	s	181.97	\$	442.59	\$ 7.5																
q_Motors	š	56.84	š	138.07	\$ 2.4							J	J				J	J		ļ	
q_Trailers	\$	9.88	\$	23.60	\$ 0.7																
q_OtherParts	\$	23.11	\$	54.92	\$ 1.8	2															
q_BearSpray	\$	2.66	\$	4.69	\$ 1.3																
q_Firearms	\$	9.11	\$	22.29	\$ 0.2																
q_Cameras	\$	9.89	\$	21.39	\$ 2.1																
q_Tents	\$	6.30	\$	14.56	\$ 0.7																
_Campers	\$	57.65	\$	143.72	\$ 0.0																
q_Other_Camp	\$	4.45	\$	10.13	\$ 0.6																
_Vehicles	\$	131.31	\$	307.01	\$ 13.7																
a_Planes	\$   \$	7.51 39.22	\$ \$	14.15 97.82	\$ 3.0 \$ -	'															
q_ATV q Registration	\$ \$	8.32	\$	19.82	\$ 0.5	,															
q_Registration q_Repair	\$	33.91	\$	81.97	\$ 1.7																
q_Kepair q_Other	\$	0.46	\$	1.09	\$ 0.0																
q_outer E_repair	\$	47.02	\$	68.69	\$ 32.5																
E_construction	\$	212.33	\$	198.27																	
Tuin avenandikunan (nan n!		£222 ED		£467.40	¢220	12	\$400.40	¢470 -	70		¢504.00		\$500.52		¢400.70		¢422.07		\$400.50		\$67F.0
Frip expenditures (non-package) Package expenditures		\$232.59 \$50.16		\$167.49 \$0.00	\$332.i \$126.		\$102.49 \$0.00	\$178.7 \$0.0			\$584.09 \$0.00		\$500.53 \$0.00		\$180.70 \$28.25		\$122.97 \$50.76		\$496.56 \$311.05		\$675.0 \$209.5
Equipment expenditures		\$752.74		\$1,725.87	\$101.		Ψ0.00	φυ.υ			ψ0.00		Ψ0.00		Ψ20.23		<b>\$30.70</b>		ψυ11.00		Ψ209.0
Real estate expenditures		\$259.35		\$266.96	\$254.:																

Appendix L4.– Average spending by sportfishing anglers in Interior Region of Alaska, 2007.

	Guided & Unguided		& Unguided		Resi			ident		NonResid			Resident
	Fresh & Salt Resident & Nonresident	RESIDENT	h & Salt NONRESIDENT		FRESH	SALT	FRESH	SALT		FRESH	SALT	FRESH	Guided SALT
	Resident & Nonresident	RESIDENT	NONRESIDENT		rkean		ngler-day	SALI	-	FRESH	SALI	FRESH	SALI
icenses		T	T T	$\overline{}$		y per a	inglei-uay		т			T	
fuel	\$ 47.24	\$ 49.88	\$ 38.85	\$	32.22	Α	^	^	\$	20.69	Α.	\$ 45.6	3 ^
guide	\$ 29.61	\$ 6.94		\$	0.54	^	^	^	\$	22.75	Α.	\$ 182.6	2 ^
air	\$ 13.10	\$ 5.71		\$	-	^	^	A	\$	9.15	Α.	\$ 66.7	
travel	\$ 23.36	\$ 0.03		\$	0.03	Α .	^	^	\$	130.75	^	\$ 10.2	
process	\$ 1.32	\$ 1.27		\$	1.19	A	1 .	^ ^	\$	0.08	^	\$ 1.9	
rentals	\$ 2.68	\$ 0.22		\$	0.23	Â	1 .	_ ^	\$	2.56	â	\$ 24.9	5 2
derby	\$ 0.21	\$ 0.01		\$	0.01	~		_ ^_	\$	0.87	^	\$ -	آءِ آءِ. آءِ
dock ce	\$ 0.69 \$ 2.28	\$ 0.83 \$ 1.46		\$   \$	0.81 1.12	Â	^	^	\$	0.26 5.83	^	\$ 0.0	
bait	\$ 1.17	\$ 1.17		s	1.03	A			\$	1.27	Α.	\$ 0.4	
groceries	\$ 20.44	\$ 20.23		Š	15.22	Α .		Α .	\$	4.51	A	\$ 27.6	
neals	\$ 15.64	\$ 7.21		Š	4.96	Α .		A .	\$	30.67		\$ 41.8	
lodging	\$ 10.76	\$ 3.19		š	2.32	A		A .	\$	9.18	Α.	\$ 42.3	
gifts	\$ 9.98	\$ 0.43		\$	0.35	A	A	A .	\$	16.04	Α.	\$ 43.6	
amus em ent	\$ 3.43	\$ 1.42		\$	0.57	Α	^	^	\$	6.83	^	\$ 12.7	
other	\$ 0.32	\$ 0.27	\$ 0.49	\$	-	A	^	^	\$	0.11	Α.	\$ 0.7	
pko air	\$ 10.39	s -	\$ 43.48	S	-	^	^	î .	\$	3.40	^	\$ 107.2 \$ 19.7	
pkg_trans	\$ 1.78	\$ -	\$ 7.46	\$	-	Â	1 .	1	\$	0.33	â	\$ 19.7	
pkg_guide	\$ 13.37 \$ 8.92	\$ - \$ -	\$ 55.93	\$		Â	1 1	^	\$	2.13	â	\$ 151.2 \$ 99.0	
pkg_lodge	\$ 8.92 \$ 2.65	\$ -	\$ 37.31 \$ 11.09	S	.	~	1 2	_ ^	\$	1.64 1.04	^	\$ 99.0 \$ 33.8	
pkg_meals	2.05	"	11.09	3	-	~		"	•	1.04	"	9 33.0	· ·
	Annua	\$ per licensed ang	lor										
Eq_RodReel	\$ 4.33	\$ 9.76											
Eq_Tackie	\$ 3.85	\$ 7.89											
Eq Tacklebox	\$ 0.56	\$ 1.30											
Eq Electronics	\$ 1.07	\$ 2.68	\$ -										
Eq_Nets	\$ 0.52	\$ 1.29	\$ -										
Eq_Misc	\$ 1.17	\$ 2.49											
Eq_Shellfish	\$ 0.30	\$ 0.74											
Eq_Taxidermy	\$ -	\$ -	\$ -										
Eq_Books	\$ 0.40	\$ 0.89											
Eq_Preserve	\$ 1.10	\$ 2.61											
Eq_Coolers	\$ 0.82	\$ 1.65											
Eq_Clothing	\$ 1.37 \$ 1.07	\$ 2.70 \$ 2.23											
Eq_Boots	\$ 0.57	\$ 1.33											
Eq_LJackets Eq_Boats	\$ 9.13	\$ 22.77											
Eq Motors	\$ 3.09	\$ 7.71											
Eq_Trailers	\$ 1.01	\$ 2.52							1	Į.			1
Eq_OtherParts	\$ 2.85	\$ 7.08											
Eq_BearSpray	\$ 0.50	\$ 1.02											
Eq_Firearms	\$ 0.96	\$ 2.40											
Eq_Cameras	\$ 1.40	\$ 3.09											
Eq_Tents	\$ 0.91	\$ 2.18											
Eq_Campers	\$ 8.66	\$ 21.60											
Eq_Other_Camp	\$ 0.78 \$ 39.46	\$ 1.67 \$ 98.26											
Eq_Vehicles Eq_Planes	\$ 1.49	\$ 2.49											
Eq_ATV	\$ 13.54	\$ 33.78											
Eq_Registration	\$ 1.26	\$ 3.12											
Eq_Repair	\$ 3.83	\$ 9.30											
Eq_Other	\$ 0.01	\$ 0.02											
RE_repair	\$ 2.43	\$ 4.00											
RE_construction	\$ 9.49	\$ 10.18	\$ 9.03				<u> </u>	<u> </u>				<u> </u>	1
Trip expenditures (non-package)	\$182.25	\$100.27			\$60.61	\$0.00	\$0.00			\$261.55	\$0.00	\$502.	
Package expenditures	\$37.10	\$0.00			\$0.00	\$0.00	\$0.00	\$0.00		\$8.55	\$0.00	\$411.	04 \$0.00
Equipment expenditures	\$106.02	\$256.58											
Real estate expenditures	\$11.93	\$14.19	\$10.42										

^Expenditures are not reported due to small sample size.

Appendix L5. Average spending by sportfishing anglers in Cook Inlet Region of Alaska, 2007.

Appendix L5. Avera			spe			1 (			<u> </u>	Aic				_							
	Guided & Un	_			Unguided & Salt	ш		ident uided				ident				esident uided	t.		NonRe	sident ded	t
	Resident & Nor		)	RESIDENT	NONRESIDENT	1 1	FRESH	SAL	Т		FRESH	lucu	SALT		FRESH		SALT		FRESH		SALT
								-	\$ per	angle	r-day			-		_					
licenses	<b>.</b>	27.05		40.00	¢ 20.04	П.	27.70		07.00		52.40		CC 25		44.07	_	24.74		20.02	4	20.57
fuel guide	\$	37.85 39.72	\$	48.62 23.79	\$ 20.84 \$ 64.88		\$ 37.72 \$ 0.85	\$	97.68	\$	53.40 240.19		66.35 328.90	\$   \$	11.87 5.45	\$	21.74 5.34	\$	32.23 152.92	\$ \$	39.57 207.26
air	š	18.59	š	2.38	\$ 44.21	}		\$	-	\$	16.62		21.08	š	33.35	š	22.84	š		š	64.66
travel	\$	2.91	\$	0.77	\$ 6.29	:	0.34	\$	0.40	\$	7.97	\$	0.91	\$	4.46	\$	1.55	\$	13.75	\$	5.55
process	\$	16.51	\$	6.59	\$ 32.19		4.16		11.70	\$	5.19	\$	43.55	\$	15.97	\$	17.74	\$	42.34	\$	89.69
rentals	\$ \$	15.78 0.72	\$	1.94 0.85	\$ 37.64 \$ 0.51		1.70 0.46	\$	3.42 2.68	\$	0.47	\$	4.06 2.17	\$   \$	24.85 0.15	\$	7.54 0.42	\$		\$	77.72 2.06
derby dock	\$	4.80	\$	6.44	\$ 2.20				16.09	\$	0.47	\$	0.56	\$	1.77	S	12.46	\$		\$	0.80
ice	\$	2.25	\$	2.76	\$ 1.45			\$	4.39	\$	1.66	\$	3.31	\$	1.42	\$	0.81	\$	1.44	\$	1.90
bait	\$	3.20	\$	3.77	\$ 2.29		2.44		12.29	\$	0.35	\$	0.38	\$	1.46	\$	11.05	\$	1.43	\$	1.98
groceries	\$	29.18	\$	29.70	\$ 28.35		24.75		41.42	\$	45.35	\$	66.76	\$	24.54	\$	20.31	\$	33.45	\$	40.59
meals	\$ \$	18.67 24.13	\$	13.19 16.05	\$ 27.31 \$ 36.89		8.62 8.48	\$	12.24 9.87	\$	46.16 95.41	\$	73.91 96.46	\$	16.14 12.38	\$	10.27 8.97	\$	44.04 72.70	\$	57.05 98.14
lodging gifts	\$	7.80	\$	2.48	\$ 16.20			\$	2.13	\$	7.89	\$	26.62	\$	10.02	\$	6.22	\$	26.25	\$	31.86
amusem ent	\$	3.58	\$	2.56	\$ 5.18		1.52	\$	2.43	\$	13.62	\$	9.55	\$	2.44	\$	3.15	\$	11.97	\$	7.49
other	\$	0.18	\$	0.08	\$ 0.34	(	80.0	\$	0.12	\$	-	\$	-	\$	0.03	\$	-	\$	0.60	\$	1.40
pkg_air	\$	4.48	\$	-	\$ 11.55		-	\$	-	\$	-	\$	-	\$	7.81	\$	7.25	\$		\$	25.63
pkg_trans	\$ \$	0.69 7.26	\$ \$	-	\$ 1.77 \$ 18.72		5 - 5 -	\$		\$		\$	:	\$	0.87 2.66	\$	0.59 1.53	\$		\$ \$	4.02 65.13
pkg_guide pkg_lodge	\$	4.84	s	-	\$ 12.49			\$	.	\$		\$	:	\$	4.71	\$	4.28	\$		\$	32.29
pkg_meals	\$	1.86	\$	-	\$ 4.80	{		\$	-	\$		\$	-	\$	2.25	\$	2.32	\$		\$	8.56
		Annual		icensed angl		1															
Eq_RodReel	\$	34.72 23.22	\$   \$	69.55 39.25	\$ 11.41 \$ 12.49																
Eq_Tackle Eq_Tacklebox	\$	2.79	s	5.74	\$ 0.82																
Eq Electronics	\$	11.70	\$	29.12	\$ 0.05																
Eq_Nets	\$	5.63	\$	13.02	\$ 0.69																
Eq_Misc	\$	7.26	\$	13.55	\$ 3.05																
Eq_Shellfish	\$	1.70 3.80	\$   \$	3.62 7.63	\$ 0.42 \$ 1.23																
Eq_Taxidermy Eq_Books	\$	2.38	Š	4.34	\$ 1.06																
Eq_Preserve	\$	12.30	Š	24.71	\$ 4.00																
Eq_Coolers	\$	5.99	\$	9.78	\$ 3.45																
Eq_Clothing	\$	11.08	\$	20.56	\$ 4.73																
Eq_Boots Eq_LJackets	\$ \$	9.97 4.59	\$	18.84 11.20	\$ 4.04 \$ 0.16																
Eq_Boats	\$	173.27	š	421.61	\$ 7.08																
Eq_Motors	\$	48.12	\$	119.87	\$ 0.10																
Eq_Trailers	\$	9.13	\$	22.12	\$ 0.43				Ī				Ĭ	Ī							
Eq_OtherParts	\$ \$	16.45 2.09	\$ \$	40.19 3.69	\$ 0.56 \$ 1.01																
Eq_BearSpray Eq_Firearms	\$	7.31	s s	17.92	\$ 0.20																
Eq_Cameras	\$	8.44	\$	18.30	\$ 1.84																
Eq_Tents	\$	5.64	\$	12.97	\$ 0.74																
Eq_Campers	\$	49.88	\$	124.36	\$ 0.05																
Eq_Other_Camp Eq_Vehicles	\$	3.64 119.16	\$ \$	8.15 278.61	\$ 0.62 \$ 12.46																
Eq_vericles Eq Planes	\$	7.28	\$	14.15	\$ 2.69																
Eq_ATV	\$	35.98	\$	89.75	\$ -																
Eq_Registration	\$	0.98	\$	2.38	\$ 0.05																
Eq_Repair	\$	30.32	\$	73.88	\$ 1.17																
Eq_Other RE_repair	\$ \$	0.45 32.09	\$   \$	1.09 32.63	\$ 0.01 \$ 31.72																
	\$	209.26	\$	192.56																	
Trip expenditures (non-package)		\$225.86		\$161.97	\$326.78		\$101.07		217.98		\$534.64		\$744.57		\$166.30		\$150.42		\$558.92		\$727.72
Package expenditures		\$19.13		\$0.00	\$49.34 \$76.60		\$0.00		\$0.00		\$0.00	)	\$0.00		\$18.29		\$15.98		\$87.80		\$135.62
Equipment expenditures Real estate expenditures		\$655.27 \$241.35		\$1,519.98 \$225.20	\$76.62 \$252.16																
rreal estate exhelialinies		ψ <b>∠</b> Ψ 1.30		φ220.20	<b>⊅</b> ∠∪∠.10																

Appendix L6.- Average spending by saltwater sportfishing anglers in Southeast Alaska, 2007.

	SALT Colded & Unavoided	SALT Culded & University	ld-d	Resident	Resident	NonResident	NonResident
	Guided & Unguided Resident & Nonresident	Guided & Ungu Resident N	onresident	Unguided SALT	Guided SALT	Unguided SALT	Guided SALT
	resident & romesident	Kesisenk is		er angler-day	VAL.	SALI	3051
licenses							
tuel	\$ 30.32	\$ 41.92 \$		\$ 43.83	\$ 20.67	\$ 38.15	\$ 10.40
guide air	\$ 54.58 \$ 32.90	\$ 10.84 \$ \$ - \$		\$ 0.51 \$ -	\$ 125.60 \$ -	\$ 2.82 \$ 44.88	\$ 145.97 \$ 64.27
travel	\$ 5.91	\$ 0.23 \$		\$ 0.26	\$ -	\$ 6.94	\$ 12.09
process	\$ 17.61	\$ 9.86 \$		\$ 7.67	\$ 34.24	\$ 6.49	\$ 35.24
rentals	\$ 4.30	\$ 0.70 \$		\$ 0.35	\$ 4.56	\$ 9.30	\$ 35.24 \$ 5.02
derby	\$ 1.91 \$ 10.68	\$ 4.15 \$ \$ 23.08 \$		\$ 4.52 \$ 25.01	\$ -	\$ 0.35	\$ 0.32 \$ 0.02
dock ice	\$ 10.68 \$ 0.72	\$ 23.08 \$ \$ 1.24 \$		\$ 25.01 \$ 1.36	\$ 1.71 \$ -	\$ 4.56 \$ 0.62	\$ 0.02 \$ 0.15
bait	\$ 4.61	\$ 8.30 \$		\$ 8.98	\$ 0.75	\$ 4.31	\$ 0.33
groceries	\$ 16.72	\$ 15.49 \$		\$ 16.22	\$ 7.43	\$ 24.09	\$ 12.82
meals	\$ 10.91	\$ 1.46 \$		\$ 1.43	\$ 1.77	\$ 19.93	\$ 15.84
lodging gifts	\$ 15.18 \$ 9.44	\$ 0.58 \$ \$ 0.13 \$		\$ 0.64 \$ 0.14	\$ - \$ -	\$ 22.14 \$ 10.01	\$ 27.89 \$ 20.38
amus em ent	\$ 1.92	\$ 0.25 \$		\$ 0.27	\$ -	\$ 2.35	\$ 3.65
other	\$ 0.48	\$ - \$	0.81	\$ -	\$ -	\$ 0.08	\$ 1.35
pkg_air	\$ 13.20	\$ - \$		s -	s -	\$ 9.05	\$ 32.37
pkg_trans pkg_guide	\$ 5.76 \$ 30.29	\$ - \$ \$ - \$		\$ - \$ -	\$ - \$ -	\$ 1.86 \$ 7.80	\$ 15.65 \$ 83.77
pkg_guide pkg_lodge	\$ 21.53	\$ - \$		\$ -	\$ -	\$ 11.48	\$ 55.20
pkg_meals	\$ 13.36	\$ - \$		s -	š -	\$ 6.60	\$ 34.63
	Annual	\$ per licensed angler	۸۸				
Eq_RodReel Eq_Tackle	**	**	AA				
Eq_Tacklebox	AA	^^	^^				
Eq_Electronics	^^	^^	^^				
Eq_Nets	^^	^^	^^				
Eq_Misc Eq_Shellfish	**	^^	^^				
Eq_Taxidermy	AA	AA	AA				
Eq_Books	AA	^^	AA				
Eq_Preserve	AA AA	^^	^^				
Eq_Coolers	AA AA	**	**				
Eq_Clothing Eq_Boots	AA	^^	^^				
Eq_LJackets	AA	**	AA				
Eq_Boats	AA	^^	^^				
Eq_Motors	^^	^^	^^				
Eq_Trailers Eq_OtherParts	AA	AA	AA	İ	1 1	1 1	İ
Eq_BearSpray	AA	AA	AA				
Eq_Firearms	AA	AA	AA				
Eq_Cameras	AA AA	AA AA	AA				
Eq_Tents Eq_Campers	AA	AA	AA				
Eq_Campers Eq_Other_Camp	AA	AA	AA				
Eq_Vehicles	AA	AA	AA				
Eq_Planes	AA	AA	AA				
Eq_ATV	AA AA	AA	AA				
Eq_Registration Eq_Repair	AA	AA	AA				
Eq_Nepali Eq_Other	AA	AA	AA				
RE_repair	AA	AA	AA				
RE_construction	AA	AA	AA				
Trip expenditures (non-package) Package expenditures Equipment expenditures	\$218.18 \$84.14	\$118.24 \$0.00	\$288.55 \$143.39	\$111.18 \$0.00	\$196.74 \$0.00	\$197.01 \$36.79	\$355.73 \$221.62

<sup>\*\*</sup>Equipment and real estate expenditures are not reported because they represent multiple use equipment that cannot be assigned specifically to salt water fishing.

# APPENDIX M: DETAILED ESTIMATES OF TOTAL SPENDING

The following tables present detailed total annual spending for each expenditure category, by region, for each analysis strata. The trip expenditures are the total annual expenditures in each region by residents and nonresidents, by type of water fished, and by use of guides. Total expenditures for equipment are the annual expenditure in each region for resident and nonresident anglers. All figures represent the total spending for all Alaska resident anglers, regardless of where they fished or the region where they live, and by all nonresident anglers who live outside of Alaska regardless of where they fished.

- Statewide Spending
- Southeast Region Spending
- Southcentral Region Spending
- Interior Region Spending
- Cook Inlet Subregion Spending
- Southeast Marine Subregion Spending

Appendix M1.-Statewide spending by sportfishing anglers in Alaska, 2007.

	Guided & Unguided Fresh & Salt		Unguided & Salt	Resid Ungu		Resid Guid		NonRes Ungu		NonRe Guid	
	Resident & Nonresident	RESIDENT	NONRESIDENT	FRESH	SALT	FRESH	SALT	FRESH	SALT	FRESH	SALT
	000 404 540	#C 007 577	#46 F00 055	#2 770 0CC	#0 070 450	<b>#050.05</b>	#205 000	#C 244 252	#2.445.004	#0 007 055	64 666 715
licenses	\$23,164,513	\$6,627,558	\$16,536,955	\$3,773,622	\$2,272,458	\$256,378	\$325,099	\$6,314,009	\$3,115,281	\$2,897,953	\$4,209,712
fuel	\$93,534,839	\$69,938,850		\$29,480,098	\$34,090,231	\$3,129,212	\$3,239,308	\$6,757,367	\$5,941,422	\$4,922,338	\$5,974,861
guide	\$115,851,616	\$32,276,187	\$83,575,429	\$1,557,368	\$792,536	\$12,698,961	\$17,227,322	\$4,226,079	\$581,100	\$29,714,463	\$49,053,787
air	\$54,663,094	\$3,279,065		\$690,530	\$29,930	\$1,212,832	\$1,345,773	\$14,739,967	\$6,532,503	\$11,711,734	\$18,399,826
travel	\$15,858,865	\$814,830		\$217,378	\$251,305	\$324,786	\$21,360	\$7,231,895	\$849,020	\$3,049,525	\$3,913,595
process	\$38,317,367	\$9,160,869		\$2,809,876	\$3,882,439	\$319,038	\$2,149,516	\$5,389,684	\$2,245,924	\$5,848,647	\$15,672,242
rentals	\$26,969,851	\$2,304,852	\$24,664,999	\$1,328,506	\$813,456	\$0	\$162,890	\$8,203,300	\$1,721,038	\$6,981,005	\$7,759,656
derby	\$2,844,733	\$2,335,998		\$370,618	\$1,751,410	\$27,953	\$186,016	\$74,948	\$70,356	\$59,905	\$303,526
dock	\$15,433,567	\$13,037,221	\$2,396,347	\$3,563,964	\$9,376,634	\$23,853	\$72,770	\$1,051,369	\$1,234,650	\$42,877	\$67,450
ice	\$4,802,885	\$3,541,733	\$1,261,152	\$1,763,285	\$1,463,590	\$104,523	\$210,336	\$644,359	\$167,412	\$211,662	\$237,719
bait	\$8,771,786	\$6,543,527	\$2,228,259	\$1,806,026	\$4,624,475	\$23,241	\$89,786	\$687,435	\$1,092,192	\$212,766	\$235,867
groceries	\$60,845,127	\$35,178,270		\$18,117,450	\$12,545,206	\$2,182,531	\$2,333,083	\$9,249,282	\$4,463,785	\$5,500,681	\$6,453,108
meals	\$41,798,767	\$15,435,598		\$6,345,116	\$4,444,358	\$2,290,294	\$2,355,830	\$6,846,164	\$3,033,138	\$6,770,816	\$9,713,051
lodging	\$56,944,458	\$18,549,878		\$6,146,449	\$4,059,116	\$5,409,901	\$2,934,412	\$6,337,160	\$3,648,713	\$11,932,076	\$16,476,630
gifts	\$20,003,541	\$2,679,940		\$861,281	\$773,048	\$368,755	\$676,856	\$4,362,994	\$1,679,530	\$3,975,140	\$7,305,937
amusem ent	\$9,792,988	\$4,622,500		\$1,134,581	\$2,465,355	\$648,081	\$374,483	\$1,378,450	\$531,569	\$1,769,103	\$1,491,367
other	\$754,665	\$129,832		\$46,262	\$76,723	\$0	\$6,847	\$10,913	\$8,184	\$222,219	\$383,517
pkg_air	\$30,277,273	\$0	\$30,277,273	\$0	\$0	\$0	\$0	\$4,818,926	\$4,232,778	\$10,547,026	\$10,678,543
pkg_trans	\$6,714,663	\$0		\$0	\$0	\$0	\$0	\$325,815	\$226,520	\$2,732,489	\$3,429,839
pkg_guide	\$47,300,090	\$0		\$0	\$0	\$0	\$0	\$1,035,487	\$921,833	\$20,994,972	\$24,347,798
pkg_lodge	\$34,404,742	\$0		\$0	\$0	\$0	\$0	\$2,806,844	\$1,489,159	\$14,914,880	\$15,193,860
pkg_meals	\$18,822,932	\$0		\$0	\$0	\$0	\$0	\$1,786,795	\$1,951,166	\$7,540,115	\$7,544,855
Eq_RodReel	\$25,143,481	\$19,604,973									
Eq_Tackle	\$19,747,744	\$12,989,758									
Eq_Tacklebox	\$2,085,070	\$1,718,940	\$366,129								
Eq_Electronics	\$8,929,572	\$8,845,224	\$84,348								
Eq_Nets	\$3,860,351	\$3,460,528	\$399,823								
Eq_Misc	\$6,650,604	\$4,682,403	\$1,968,201								
Eq_Shellfish	\$2,671,041	\$2,429,641	\$241,400								
Eq_Taxidermy	\$2,271,094	\$1,454,872	\$816,222								
Eq_Books	\$1,847,481	\$1,233,909									
Eq_Preserve	\$9,329,159	\$7,084,928	\$2,244,231								
Eq_Coolers	\$4,696,825	\$3,054,823	\$1,642,002								
Eq_Clothing	\$9,841,502	\$6,383,662	\$3,457,840								
Eq_Boots	\$7,092,816	\$5,434,312	\$1,658,504								
Eq_LJackets	\$3,772,215	\$3,620,424	\$151,791								
Eq_Boats	\$105,171,133	\$101,074,361	\$4,096,772								
Eq_Motors	\$37,883,516	\$37,160,536	\$722,980								
Eq_Trailers	\$7,993,687	\$7,759,679									
Eq_OtherParts	\$15,542,338	\$14,488,956									
Eq_BearSpray	\$1,770,546	\$1,284,685									
Eq_Firearms	\$5,224,991	\$5,143,008									
Eq_Cameras	\$6,181,291	\$5,286,567	\$894,724								
Eq_Tents	\$3,671,254	\$3,423,576	\$247,678								
Eq_Campers	\$31,534,144	\$31,518,386	\$15,757								
Eq_Other_Camp	\$2,903,071	\$2,616,313	\$286,758								
Eq_Vehicles	\$88,317,188	\$84,317,439	\$3,999,749								
Eq Planes	\$5,587,334	\$4,118,284	\$1,469,050								
Eq_ATV	\$26,397,301	\$26,397,301	\$0								
Eq_Registration	\$4,740,207	\$4,480,408	\$259,799								
Eq Repair	\$23,988,232	\$22,400,506	\$1,587,726								
Eq Other	\$233,366	\$224,699	\$8,666								
RE repair	\$50,378,496	\$19,896,212									
RE_construction	\$132,458,660	\$53,243,325									
	, , , , , , , , , , , , , , , , , , , ,		********	1	ļ	1	'	1	Ų	1	
License expenditures	\$23,164,513	\$6,627,558	\$16,536,955	\$3,773,622	\$2,272,458	\$256,378	\$325,099	\$6,314,009	\$3,115,281	\$2,897,953	\$4,209,712
Trip expenditures (non-package)	\$567,188,150	\$219,829,151	\$347,358,999	\$76,238,790	\$81,439,812	\$28,763,962	\$33,386,587	\$77,191,364	\$33,800,535	\$92,924,958	\$143,442,141
Package expenditures	\$137,519,700	\$0		\$0	\$0	\$0	\$0	\$10,773,868	\$8,821,455	\$56,729,482	\$61,194,895
Equipment expenditures	\$475,078,554	\$433,693,104		***	•••	40	+•	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	,,.30	Ţ,. <u>, 102</u>	, , , , ,
Real estate expenditures	\$182,837,156	\$73,139,537	\$109,697,619								
Total expenditures	\$1,385,788,072	\$733,289,349		\$80,012,412	\$83,712,269	\$29,020,340	\$33,711,687	\$94,279,241	\$45,737,271	\$152,552,393	\$208,846,748

Appendix M2.-Spending by sportfishing anglers in Southeast Alaska, 2007.

	Guided & Unguided Fresh & Salt		Unguided & Salt	Resid		Resident Guided		NonRes		NonResident Guided	
	Resident & Nonresident	RESIDENT	NONRESIDENT	Ungui FRESH	SALT	FRESH	SALT	Ungui FRESH	SALT	FRESH	SALT
censes						A	A				
uel	\$14,337,262	\$7,947,106	\$6,390,155	\$383,676	\$7,232,882	A	A	\$512,747	\$4,125,662	\$219,286	\$1,532,460
uide	\$26,931,097	\$2,116,465	\$24,814,632	\$0	\$84,305	A	A	\$588,639	\$305,377	\$2,414,749	\$21,505,868
ir	\$17,160,414	\$0	\$17,160,414	\$0	\$0	A	A	\$1,758,496	\$4,852,526	\$1,080,118	\$9,469,274
avel	\$3,966,275	\$58,390		\$16,226	\$42,165	A	A	\$841,813	\$750,283	\$535,243	\$1,780,54
rocess	\$8,703,721	\$1,865,731	\$6,837,990	\$91,673	\$1,265,507	A	A	\$455.557	\$701,845	\$488,682	\$5,191,90
entals	\$2,395,601	\$125,956	\$2,269,645	\$0	\$58,241	A	Α .	\$354,121	\$1,005,864	\$169,494	\$740,160
erby	\$905,077	\$815,848	\$89,229	\$69,656	\$746,192	A	A	\$4,081	\$37,464	\$103,434	\$47,68
•											
ock	\$4,925,627	\$4,166,501	\$759,127	\$8,687	\$4,126,563		Â	\$263,239	\$493,202	\$0	\$2,68
e	\$357,882	\$233,917	\$123,965	\$10,216	\$223,702	^		\$26,661	\$67,288	\$8,488	\$21,52
ait	\$2,341,333	\$1,601,827	\$739,505	\$108,566	\$1,482,050	^	^	\$177,223	\$465,636	\$48,740	\$47,90
roceries	\$8,726,800	\$3,031,000	\$5,695,799	\$226,283	\$2,676,679	^	A	\$816,755	\$2,604,512	\$386,069	\$1,888,46
neals	\$5,909,275	\$261,832	\$5,647,443	\$0	\$235,603	A	A	\$692,006	\$2,155,046	\$466,441	\$2,333,94
odging	\$9,558,970	\$104,796	\$9,454,174	\$0	\$104,796	A	Α	\$1,386,011	\$2,393,836	\$1,564,947	\$4,109,38
ifts	\$4,746,231	\$44,489	\$4,701,743	\$21,429	\$23,059	A	A	\$430,943	\$1,082,181	\$186,409	\$3,002,20
musement	\$1,151,342	\$93,712		\$49,299	\$44,412	Α	A	\$140,832	\$254,262	\$124,968	\$537,56
ther	\$207,720	\$0	\$207,720	\$0	\$0	Α	A	\$0	\$8,184	\$0	\$199,53
kg air	\$6,842,229	\$0		\$0	\$0	Α .	A	\$580,861	\$979,105	\$513,625	\$4,768,63
	\$2,677,572	\$0 \$0		\$0 \$0	\$0	Δ.	A	\$16,232	\$200,766	\$154,826	
kg_trans							<u>^</u>				\$2,305,74
kg_guide	\$13,834,081	\$0		\$0	\$0	"		\$0	\$843,864	\$648,256	\$12,341,96
kg_lodge	\$10,256,687	\$0	\$10,256,687	\$0	\$0	^	^	\$378,440	\$1,241,587	\$503,354	\$8,133,30
kg_meals	\$6,255,933	\$0		\$0	\$0	A .	^	\$189,364	\$713,206	\$250,665	\$5,102,699
q_RodReel	\$3,566,878	\$2,474,141	\$1,092,737								
q_Tackle	\$3,697,289	\$2,105,712	\$1,591,577								
 Eq_Tacklebox	\$224,907	\$165,490	\$59,418								
g Electronics	\$1,751,924	\$1,712,509	\$39,415								
q Nets	\$576,705	\$432,132	\$144,573								
q Misc	\$1,604,304	\$924,324	\$679,980								
q_Shellfish	\$887,752	\$786,118									
q_Taxidermy	\$425,444	\$0	\$425,444								
q_Books	\$289,802	\$124,512									
q_Preserve	\$1,177,214	\$944,379	\$232,835								
Coolers	\$696,130	\$442,770	\$253,360								
Eq Clothing	\$2,259,971	\$812,730	\$1,447,241								
g Boots	\$1,018,424	\$752,157	\$266,267								
Eq LJackets	\$690.442	\$634,385	\$56,057								
	*										
Eq_Boats	\$14,299,765	\$12,356,617	\$1,943,148								
Eq_Motors	\$9,385,288	\$9,369,522	\$15,766								
Eq_Trailers	\$2,816,067	\$2,780,594	\$35,473								
Eq_OtherParts	\$3,197,413	\$2,669,856	\$527,557								
Eq_BearSpray	\$266,786	\$195,089	\$71,697								
q_Firearms	\$436,087	\$436,087	\$0								
Eq_Cameras	\$815,101	\$618,768	\$196,333								
=q_Tents	\$243,973	\$232,173									
Eq_Campers	\$0	\$0	\$0								
Eq_Campers Eq Other Camp	\$414,949	\$366,935									
Eq_Vehicles	\$7,109,202	\$7,055,405	\$53,797								
Eq_Planes	\$1,304,243	\$946,030	\$358,214								
eq_ATV	\$1,307,325	\$1,307,325	\$0								
Eq_Registration	\$958,630	\$948,429	\$10,201								
q_Repair	\$6,043,640	\$4,999,739	\$1,043,900								
=q_Other	\$12,305	\$12,305	\$0								
RE repair	\$26,860,734	\$6,037,607	\$20,823,127								
RE_construction	\$26,974,980	\$13,502,583									
Trin ovnandituras (non naskasa)	\$112,324,626	\$22,467,571	\$89,857,056	\$985,711	\$18.346.157	\$0	\$0	\$8,449,125	\$21,303,169	\$7,693,634	\$52,411,128
Trip expenditures (non-package)											
Package expenditures	\$39,866,502	\$0		\$0	\$0	\$0	\$0	\$1,164,897	\$3,978,528	\$2,070,725	\$32,652,35
Equipment expenditures	\$67,477,961	\$56,606,233									
Real estate expenditures	\$53,835,714	\$19,540,190	\$34,295,525								
Total expenditures	\$273,504,804	\$98,613,993	\$174,890,811	\$985,711	\$18,346,157	S0	\$0	\$9,614,022	\$25,281,696	\$9,764,359	\$85,063,481

Appendix M3.–Spending by sportfishing anglers in Southcentral Alaska, 2007.

	Guided & Unguided	Guided &	Guided & Unguided		ent	Resid	lent	NonRe	sident	NonRe	ident
	Fresh & Salt		& Salt	Ungui		Guid		Ungu		Guid	
	Resident & Nonresident	RESIDENT	NONRESIDENT	FRESH	SALT	FRESH	SALT	FRESH	SALT	FRESH	SALT
licenses	000 040 047	054.005.004	045 000 700	004 000 470	004 740 440	20 740 400	00 440 000	Ø5 547 400	04 004 000	24 404 400	04.040.505
fuel	\$69,618,847	\$54,295,081	\$15,323,766	\$24,366,478	\$24,740,140	\$2,742,460	\$2,446,003	\$5,517,436	\$1,661,296	\$4,101,499	\$4,043,535
guide air	\$82,917,307 \$34,846,064	\$29,089,167 \$2,397,597	\$53,828,140 \$32,448,467	\$1,478,417 \$690,530	\$708,231 \$0	\$12,038,032 \$1,212,832	\$14,864,487 \$494,235	\$2,837,944 \$12,659,783	\$275,723 \$1,679,976	\$24,892,052 \$9,752,250	\$25,822,420 \$8,356,457
travel	\$7,155,593	\$751,980	\$6,403,613	\$196,692	\$209,141	\$324,786	\$21,360	\$1,794,963	\$97,109	\$2,379,647	\$2,131,894
process	\$29,345,461	\$7,099,744	\$22,245,717	\$2,543,272	\$2,596,468	\$319,038	\$1,640,966	\$4,931,189	\$1,544,079	\$5,334,817	\$10,435,633
rentals	\$24,031,699	\$2,144,824	\$21,886,874	\$1,294,435	\$755,215	\$0	\$95,175	\$7,759,341	\$715,174	\$6,482,627	\$6,929,732
derby	\$1,897,780	\$1,518,191	\$379,589	\$299,004	\$1,005,218	\$27,953	\$186,016	\$40,267	\$23,574	\$59,905	\$255,843
dock	\$10,367,086	\$8,742,469	\$1,624,618	\$3,435,880	\$5,244,902	\$14,288	\$47,398	\$778,927	\$738,438	\$42,488	\$64,765
ice	\$3,982,644	\$3,082,403	\$900,241	\$1,588,106	\$1,216,061	\$85,119	\$193,116	\$412,875	\$89,090	\$191,731	\$206,545
bait	\$6,193,705	\$4,761,052	\$1,432,653	\$1,546,166	\$3,124,154	\$16,343	\$74,389	\$465,618	\$626,556	\$157,931	\$182,548
groceries	\$47,974,193	\$29,025,822	\$18,948,371	\$15,657,441	\$9,334,446	\$1,954,615	\$2,079,320	\$8,274,104	\$1,559,726	\$4,750,100	\$4,364,441
meals	\$32,717,487	\$14,061,048	\$18,656,438	\$5,617,101	\$3,951,099	\$2,209,260	\$2,283,589	\$5,076,313	\$823,001	\$5,752,102	\$7,005,022
lodging	\$45,204,580	\$17,953,173	\$27,251,408	\$5,805,912	\$3,869,740	\$5,376,485	\$2,901,035	\$4,628,686	\$1,140,004	\$9,808,358	\$11,674,359
gifts	\$13,233,350	\$2,569,424	\$10,663,926	\$788,293 \$1,004,074	\$735,520	\$368,755	\$676,856	\$3,368,461	\$498,519	\$3,212,855	\$3,584,090 \$904,726
amusement other	\$7,946,070 \$481,215	\$4,309,182 \$87,862	\$3,636,888 \$393,353	\$1,001,071 \$46,262	\$2,373,944 \$34,753	\$559,685 \$0	\$374,483 \$6,847	\$997,645 \$6,930	\$259,021 \$0	\$1,475,496 \$212,375	\$904,726 \$174,048
pkg_air	\$21,328,586	\$07,062	\$21,328,586	\$46,262	\$34,753	\$0	\$0,047	\$4,118,669	\$3,253,673	\$8,620,046	\$5,336,198
pkg_trans	\$3,675,736	\$0	\$3,675,736	\$0	\$0	\$0	\$0	\$297,949	\$25,754	\$2,317,405	\$1,034,628
pkg_guide	\$30,756,176	\$0	\$30,756,176	\$0	\$0	\$0	\$0	\$960,614	\$77,969	\$18,353,165	\$11,364,429
pkg_lodge	\$22,340,395	\$0	\$22,340,395	\$0	\$0	\$0	\$0	\$2,370,684	\$247,572	\$13,105,460	\$6,616,679
pkg_meals	\$12,029,663	\$0	\$12,029,663	\$0	\$0	\$0	\$0	\$1,560,741	\$1,237,960	\$6,843,575	\$2,387,387
Eq_RodReel	\$19,515,177	\$15,269,246	\$4,245,931								
Eq_Tackle	\$14,217,547	\$9,379,640	\$4,837,907								
Eq_Tacklebox	\$1,595,900	\$1,306,540	\$289,359								
Eq_Electronics	\$6,667,511	\$6,622,578	\$44,933								
Eq_Nets	\$3,037,363	\$2,782,113	\$255,250								
Eq_Misc	\$4,488,062	\$3,283,959 \$1,502,762	\$1,204,103 \$136,615								
Eq_Shelfish Eq_Taxidermy	\$1,639,377 \$1,845,650	\$1,454,872	\$390,778								
Eq_Books	\$1,368,032	\$939,037	\$428,995								
Eq_Preserve	\$7,628,401	\$5,643,839	\$1,984,562								
Eq_Coolers	\$3,610,131	\$2,296,735	\$1,313,396								
Eq Clothing	\$6,931,992	\$5,056,318	\$1,875,674								
Eq_Boots	\$5,563,975	\$4,256,400	\$1,307,575								
Eq_LJackets	\$2,812,514	\$2,732,546	\$79,968								
Eq_Boats	\$86,530,986	\$84,377,363	\$2,153,623								
Eq_Motors	\$27,028,611	\$26,321,397	\$707,214								
Eq_Trailers	\$4,697,102	\$4,498,567	\$198,535								
Eq_OtherParts	\$10,987,563	\$10,469,616	\$517,946								
Eq_BearSpray	\$1,265,211 \$4,331,218	\$894,892 \$4,249,236	\$370,319 \$81,983								
Eq_Firearms Eq_Cameras	\$4,331,218 \$4,702,636	\$4,249,236	\$624,609								
Eq_Cameras Eq Tents	\$2,996,888	\$2,775,877	\$221,010								
Eq Campers	\$27,416,058	\$27,400,300	\$15,757								
Eq Other Camp	\$2,117,042	\$1,930,562	\$186,481								
Eq_Vehicles	\$62,443,391	\$58,528,989	\$3,914,402								
Eq_Planes	\$3,572,819	\$2,697,880									
Eq_ATV	\$18,649,536	\$18,649,536	\$0								
Eq_Registration	\$3,184,035	\$2,937,391	\$246,644								
Eq_Repair	\$16,123,734	\$15,626,970	\$496,764								
Eq_Other	\$216,528	\$207,861	\$8,666								
RE_repair	\$22,360,928	\$13,095,701	\$9,265,228								
RE_construction	\$100,968,565	\$37,799,302	\$63,169,263	1					<u> </u>		
Trip expenditures (non-package)	\$417,913,080	\$181,889,019	\$236,024,061	\$66,355,060	\$59,899,032	\$27,249,652	\$28,385,275	\$59,550,482	\$11,731,288	\$78,606,235	\$86,136,056
Package expenditures	\$90,130,556	\$0	\$90,130,556	\$0	\$0	\$0	\$0	\$9,308,656	\$4,842,927	\$49,239,651	\$26,739,321
Equipment expenditures	\$357,184,990	\$328,171,050	\$29,013,940								
Real estate expenditures	\$123,329,493	\$50,895,003	\$72,434,491								
Total expenditures	\$988,558,119	\$560,955,071	\$427,603,048	\$66,355,060	\$59,899,032	\$27,249,652	\$28,385,275	\$68,859,138	\$16,574,215	\$127,845,886	\$112,875,377

Appendix M4.-Spending by sportfishing anglers in the Interior Region of Alaska, 2007

	Guided & Unguided Fresh & Salt		Unguided & Salt	Reside Unguio		Resid Guid		NonRes Ungui		NonRe Guid	
	Resident & Nonresident	RESIDENT	NONRESIDENT	FRESH	SALT	FRESH	SALT	FRESH	SALT	FRESH	SALT
licenses fuel	\$9,578,730	\$7,696,662	\$1,882,068	\$4,729,944	A		Α .	\$727,184	A	\$601,553	
	\$6,003,212	\$1,070,555		\$78,951	Α.	Α	Α	\$799,496	Α .	\$2,407,661	
guide air	\$2,656,617	\$881,467		\$10,331	A			\$321,688		\$879,366	
	\$4,736,998	\$4,460		\$4,460			Α .	\$4,595,118		\$134,634	
travel	\$268,185	\$195,395		\$174,931	Α		A	\$2,938	A	\$25,148	
process	\$542,552	\$34,072		\$34,072	, A		A	\$89,838	<u>^</u>	\$328,884	
rentals	\$41,876	\$1,959		\$1,959			 A	\$30,600		\$320,004	
derby	\$140,854			\$119,396	A			\$9,204		\$389	
dock	\$140,854 \$462,359	\$128,252 \$225,413		\$164,963	A .		A	\$204,823	<u>^</u>	\$11,444	
ice		\$225,413 \$180,648		\$151,294			 A	\$44,594		\$6,095	
bait .	\$236,749						^				
groceries	\$4,144,134	\$3,121,448		\$2,233,726	Ä	, A	, n	\$158,422	^	\$364,512	
meals 	\$3,172,006	\$1,112,718		\$728,015	^		^	\$1,077,845	^	\$552,272	
lodging	\$2,180,908	\$491,909		\$340,537	A .	, a	^	\$322,463	<u>^</u>	\$558,771	
gifts	\$2,023,960	\$66,028		\$51,559	^	"	, n	\$563,590	, A	\$575,876	
amusem ent	\$695,576	\$219,606		\$84,211	A	"	^^	\$239,973		\$168,639	
other	\$65,730	\$41,970		\$0 \$0	A	^	^	\$3,983 \$119,396	A A	\$9,844 \$1,413,356	
pkg_air	\$2,106,458	\$0			Â		^		^		
pkg_trans	\$361,355	\$0 \$0		\$0 \$0	^	"	A	\$11,634 \$74,873	"	\$260,258 \$1,993,551	
pkg_guide	\$2,709,832				A		^		( ۱		
pkg_lodge	\$1,807,660	\$0		\$0	A	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	^	\$57,721	^	\$1,306,066	
pkg_meals	\$537,336	\$0		\$0	^		^	\$36,691	^	\$445,875	
Eq_RodReel	\$2,061,425	\$1,861,586									
Eq_Tackle	\$1,832,908	\$1,504,407									
Eq_Tacklebox	\$264,263	\$246,910									
Eq_Electronics	\$510,137	\$510,137	\$0								
Eq_Nets	\$246,283	\$246,283									
Eq_Misc	\$558,237	\$474,119									
Eq_Shellfish	\$143,912	\$140,760									
Eq_Taxidermy	\$0	\$0									
Eq_Books	\$189,647	\$170,359									
Eq_Preserve	\$523,544	\$496,710									
Eq_Coolers	\$390,564	\$315,319									
Eq_Clothing	\$649,539	\$514,614									
Eq_Boots	\$510,418	\$425,755									
Eq_LJackets	\$269,259	\$253,493									
Eq_Boats	\$4,340,381	\$4,340,381	\$0								
Eq_Motors	\$1,469,616	\$1,469,616									
Eq_Trailers	\$480,518	\$480,518									
Eq_OtherParts	\$1,357,363	\$1,349,484									
Eq_BearSpray	\$238,549	\$194,704									
Eq_Firearms	\$457,685	\$457,685									
Eq_Cameras	\$663,553	\$589,771									
Eq_Tents	\$430,394	\$415,526	\$14,868								
Eq_Campers	\$4,118,086	\$4,118,086	\$0								
Eq_Other_Camp	\$371,080	\$318,817	\$52,263								
Eq_Vehicles	\$18,764,595	\$18,733,046									
Eq_Planes	\$710,272	\$474,375									
Eq_ATV	\$6,440,441	\$6,440,441	\$0								
Eq_Registration	\$597,542	\$594,588									
Eq_Repair	\$1,820,858	\$1,773,797	\$47,061								
Eq_Other	\$4,533	\$4,533									
RE_repair	\$1,156,834	\$762,904									
RE_construction	\$4,515,115	\$1,941,441	\$2,573,674	 							
Trip expenditures (non-package)	\$36,950,444	\$15,472,561	\$21,477,883	\$8,898,018	\$0	\$0	\$0	\$9,191,758	\$0	\$6,625,089	\$
Package expenditures	\$7,522,641	\$0		\$0	\$0	\$0	\$0	\$300,314	\$0 \$0	\$5,419,106	\$
Equipment expenditures	\$50,415,603	\$48,915,821	\$1,499,781	ΨΟ	ΨΟ	φ0	Ψ	φ300,514	ΨΟ	₩0,₹13,100	9
Real estate expenditures	\$5,671,949	\$2,704,345									
i tour coluie experiuliules	φυ,υτι,υτυ	\$67,092,727		\$8,898,018	\$0			\$9,492,072			\$

Appendix M5.-Spending by sportfishing anglers in the Cook Inlet Region of Alaska, 2007

1	Cuided 9 Hamilded	Guided &	Inquidod		1		14		11		
	Guided & Unguided Fresh & Salt	Fresh		Resid Ungu		Resid Guid		NonRes Ungui		NonRe Guid	
	Resident & Nonresident	RESIDENT	NONRESIDENT	FRESH	SALT	FRESH	SALT	FRESH	SALT	FRESH	SALT
licenses	\$47,056,024	\$37,011,821	\$10,044,202	\$21,901,576	\$11,380,954	\$2,173,330	\$1,555,961	\$3,263,385	\$836,568	\$3,186,123	\$2,758,126
fuel guide	\$49,375,757	\$18,110,318	\$31,265,439	\$491,026	\$131,158	\$9,775,368	\$7,712,767	\$1,497,359	\$205,546	\$15,117,765	\$14,444,769
air	\$23,114,633	\$1,812,166	\$21,302,467	\$641,443	\$0	\$676,488	\$494,235	\$9,165,356	\$879,229	\$6,751,271	\$4,506,611
travel	\$3,619,352	\$589,157	\$3,030,195	\$196,692	\$46,840	\$324,265	\$21,360	\$1,224,923	\$59,592	\$1,359,212	\$386,468
process	\$20,522,423	\$5,012,909	\$15,509,514	\$2,416,922	\$1,363,313	\$211,402	\$1,021,272	\$4,389,265	\$682,949	\$4,186,148	\$6,251,152
rentals	\$19,616,056	\$1,478,512	\$18,137,545	\$984,794	\$398,542	\$0	\$95,175	\$6,829,749	\$290,235	\$5,601,019	\$5,416,541
derby	\$891,534	\$647,639	\$243,895	\$265,911	\$311,741	\$19,034	\$50,954	\$40,009	\$16,211	\$44,050	\$143,625
dock	\$5,963,918	\$4,901,916	\$1,062,002	\$2,999,774	\$1,874,689	\$14,288	\$13,165	\$487,024	\$479,686	\$39,839	\$55,453
ice	\$2,796,385	\$2,099,702	\$696,683	\$1,443,246	\$511,160	\$67,606	\$77,690	\$391,344	\$31,224	\$141,983	\$132,132 \$139,036
bait groceries	\$3,974,845 \$36,268,957	\$2,870,067 \$22,606,554	\$1,104,778 \$13,662,403	\$1,415,536 \$14,369,144	\$1,431,427 \$4,826,360	\$14,266 \$1,845,644	\$8,838 \$1,565,405	\$400,092 \$6,744,856	\$425,280 \$781,830	\$141,380 \$3,306,773	\$138,026 \$2,828,945
meals	\$23,205,088	\$10,042,829	\$13,162,259	\$5,004,739	\$1,426,230	\$1,878,700	\$1,733,160	\$4,436,963	\$395,298	\$4,354,029	\$3,975,969
lodging	\$29,991,010	\$12,216,060	\$17,774,950	\$4,921,116	\$1,149,674	\$3,883,292	\$2,261,977	\$3,402,945	\$345,236	\$7,187,303	\$6,839,466
gifts	\$9,696,196	\$1,889,133	\$7,807,062	\$695,238	\$248,621	\$321,053	\$624,221	\$2,752,956	\$239,225	\$2,594,590	\$2,220,291
amusem ent	\$4,444,159	\$1,946,515	\$2,497,644	\$885,321	\$282,850	\$554,469	\$223,875	\$671,368	\$121,097	\$1,182,918	\$522,260
other	\$224,544	\$60,030	\$164,514	\$46,262	\$13,767	\$0	\$0	\$6,930	\$0	\$59,683	\$97,902
pkg_air	\$5,564,403	\$0	\$5,564,403	\$0	\$0	\$0	\$0	\$2,146,527	\$278,880	\$1,352,889	\$1,786,107
pkg_trans	\$855,214	\$0	\$855,214	\$0	\$0	\$0	\$0	\$238,326	\$22,810	\$314,182	\$279,897
pkg_guide	\$9,022,768	\$0	\$9,022,768	\$0	\$0	\$0	\$0	\$731,076	\$59,021	\$3,693,690	\$4,538,980
pkg_lodge	\$6,020,461	\$0	\$6,020,461	\$0	\$0	\$0	\$0 \$0	\$1,293,293	\$164,892	\$2,311,779	\$2,250,497
pkg_meals	\$2,311,695 \$16,509,181	\$0 \$13,259,547	\$2,311,695 \$3,249,634	\$0	\$0	\$0	\$0	\$618,058	\$89,400	\$1,007,583	\$596,654
Eq_RodReel Eq Tackle	\$11,040,467	\$7,483,531	\$3,556,936								
Eq_Tackle Eq_Tacklebox	\$1,327,807	\$1,093,528	\$234,280								
Eq Electronics	\$5,564,976	\$5,551,575	\$13,401								
Eq_Nets	\$2,678,138	\$2,482,010	\$196,128								
Eq Misc	\$3,452,707	\$2,584,018	\$868,690								
Eq_Shellfish	\$809,996	\$690,714	\$119,282								
Eq_Taxidermy	\$1,806,257	\$1,454,872	\$351,385								
Eq_Books	\$1,129,920	\$827,718	\$302,202								
Eq_Preserve	\$5,850,248	\$4,710,457	\$1,139,791								
Eq_Coolers	\$2,848,078	\$1,864,918	\$983,159								
Eq_Clothing	\$5,267,860	\$3,920,066	\$1,347,794								
Eq_Boots Eq_LJackets	\$4,742,105 \$2,182,509	\$3,591,748 \$2,136,044	\$1,150,357 \$46,466								
Eq_Liackets Eq Boats	\$82,395,521	\$80,377,485	\$2,018,037								
Eq Motors	\$22,882,689	\$22,853,409	\$29,280								
Eq Trailers	\$4,340,753	\$4,217,105	\$123,647								
Eq_OtherParts	\$7,822,435	\$7,662,191	\$160,244								
Eq_BearSpray	\$992,134	\$704,412	\$287,722								
Eq_Firearms	\$3,475,613	\$3,417,279	\$58,334								
Eq_Cameras	\$4,013,401	\$3,488,315	\$525,085								
Eq_Tents	\$2,681,840	\$2,472,341	\$209,499								
Eq_Campers	\$23,721,889	\$23,708,102 \$1,554,141	\$13,788 \$176.261								
Eq_Other_Camp	\$1,730,403 \$56,666,397	\$1,554,141 \$53,115,779	\$176,261 \$3,550,618								
Eq_Vehicles Eq Planes	\$3,462,984	\$2,697,880	\$765,104								
Eq_ATV	\$17,109,683	\$17,109,683	\$00,104								
Eq Registration	\$2,527,535	\$2,389,419	\$138,116								
Eq_Repair	\$14,417,524	\$14,084,627	\$332,897								
Eq_Other	\$211,800	\$207,861	\$3,939								
RE_repair	\$15,258,109	\$6,221,360	\$9,036,749								
RE_construction	\$99,512,596	\$36,711,001	\$62,801,595	<u> </u>		<u> </u>		<u> </u>		<u> </u>	
Trip expenditures (non-package)	\$280,760,879	\$123,295,328	\$157,465,551	\$58,678,740	\$25,397,328	\$21,759,204	\$17,460,056	\$45,704,524	\$5,789,207	\$55,254,085	\$50,717,735
Package expenditures	\$23,774,541	\$0	\$23,774,541	\$0	\$0	\$0	\$0	\$5,027,281	\$615,002	\$8,680,122	\$9,452,136
Equipment expenditures	\$313,662,850	\$291,710,774	\$21,952,076	*-	*-	*-	•-	, ,			
Real estate expenditures	\$114,770,705	\$42,932,362	\$71,838,343								
Total expenditures	\$732,968,975	\$457.938.464	\$275,030,511	\$58,678,740	\$25,397,328	\$21,759,204	\$17,460,056	\$50,731,805	\$6,404,209	\$63,934,207	\$60,169,871

Appendix M6.–Spending by saltwater sportfishing anglers in Southeast Alaska, 2007.

rippenant ivio: 8	bending by satiwater sportfishing anglers in Southeast Alaska, 2007.							
	SALT	SAL	T	Resident	Resident	NonResident	NonResident	
	Guided & Unguided	Guided & U		Unguided	Guided	Unguided	Guided	
	Resident & Nonresident	Resident	Nonresident	SALT	SALT	SALT	SALT	
licenses								
fuel	\$14,337,262	\$7,947,106	\$6,390,155	\$383,676	\$21	\$307,034	\$512,747	
guide	\$26,931,097	\$2,116,465	\$24,814,632	\$0	\$126	\$1,865,600	\$588,639	
air	\$17,160,414	\$0	\$17,160,414	\$0	\$0	\$0	\$1,758,496	
travel	\$3,966,275	\$58,390	\$3,907,885	\$16,226	\$0	\$0	\$841,813	
process	\$8,703,721	\$1,865,731	\$6,837,990	\$91,673	\$34	\$508,550	\$455,557	
rentals	\$2,395,601	\$125,956	\$2,269,645	\$0	\$5	\$67,715	\$354,121	
derby	\$905,077 \$4,925,627	\$815,848 \$4,166,501	\$89,229 \$759,127	\$69,656 \$8,687	\$0 \$2	\$0 \$25,372	\$4,081 \$263,239	
dock ice	\$357,882	\$233,917	\$123,965	\$10,216	\$2 \$0	\$25,372	\$26,661	
bait	\$2,341,333	\$1,601,827	\$739,505	\$108,566	\$0 \$1	\$11,212	\$177,223	
groceries	\$8,726,800	\$3,031,000	\$5,695,799	\$226,283	\$7	\$110,402	\$816,755	
meals	\$5,909,275	\$261,832	\$5,647,443	\$0	\$2	\$26,229	\$692,006	
lodging	\$9,558,970	\$104,796	\$9,454,174	\$0	\$0	\$0	\$1,386,011	
gifts	\$4,746,231	\$44,489	\$4,701,743	\$21,429	\$0	\$0	\$430,943	
amusement	\$1,151,342	\$93,712	\$1,057,630	\$49,299	\$0 \$0	\$0	\$140,832	
other	\$207,720	\$0	\$207,720	\$0	\$0	\$0	\$0	
pkg_air	\$6,842,229	\$0	\$6,842,229	\$0	\$0	\$0	\$580,861	
pkg_trans	\$2,677,572	\$0 \$0	\$2,677,572	\$0	\$0 \$0	\$0	\$16,232	
pkg_guide	\$13,834,081 \$10,256,687	\$0	\$13,834,081 \$10,256,687	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$378,440	
pkg_lodge pkg_meals	\$6,255,933	\$0	\$6,255,933	\$0	\$0 \$0	\$0	\$189,364	
Eq_RodReel	\$3,566,878	\$2,474,141	\$1,092,737		Ψ0	40	\$100,004	
Eq Tackle	\$3,697,289	\$2,105,712	\$1,591,577					
Eq_Tacklebox	\$224,907	\$165,490	\$59,418					
Eq_Electronics	\$1,751,924	\$1,712,509	\$39,415					
E q_Nets	\$576,705	\$432,132	\$144,573					
Eq_Misc	\$1,604,304	\$924,324	\$679,980					
Eq_Shellfish	\$887,752	\$786,118	\$101,634					
Eq_Taxidermy	\$425,444	\$0	\$425,444					
Eq_Books	\$289,802	\$124,512	\$165,290					
Eq_Preserve	\$1,177,214 \$696,130	\$944,379 \$442,770	\$232,835 \$253,360					
Eq_Coolers Eq_Clothing	\$2,259,971	\$442,770	\$1,447,241					
Eq_Clothing Eq_Boots	\$1,018,424	\$752,157	\$266,267					
Eq LJackets	\$690,442	\$634,385	\$56,057					
Eq_Boats	\$14,299,765	\$12,356,617	\$1,943,148					
Eq_Motors	\$9,385,288	\$9,369,522	\$15,766					
Eq_Trailers	\$2,816,067	\$2,780,594	\$35,473					
Eq_OtherP arts	\$3,197,413	\$2,669,856	\$527,557					
Eq_BearSpray	\$266,786	\$195,089	\$71,697					
Eq_Firearms	\$436,087	\$436,087	\$0					
Eq_Cameras	\$815,101	\$618,768	\$196,333					
Eq_Tents	\$243,973 \$0	\$232,173 \$0	\$11,800 \$0					
Eq_Campers Eq_Other_Camp	\$414,949	\$366,935	\$48,014					
Eq_Other_Camp Eq_Vehicles	\$7,109,202	\$7,055,405	\$53,797					
Eq_Planes	\$1,304,243	\$946,030	\$358,214					
Eq_ATV	\$1,307,325	\$1,307,325	\$0					
Eq_Registration	\$958,630	\$948,429	\$10,201					
Eq_Repair	\$6,043,640	\$4,999,739	\$1,043,900					
Eq_Other	\$12,305	\$12,305	\$0					
RE_repair	\$26,860,734	\$6,037,607	\$20,823,127					
RE_construction	\$26,974,980	\$13,502,583	\$13,472,398					
Trip expenditures (non-package)	\$112,324,626	\$22,467,571	\$89,857,056	\$985,711	\$197	\$2,922,114	\$8,449,125	
Package expenditures	\$39,866,502	\$22,467,571	\$39,866,502	\$965,711	\$197	\$2,922,114	\$1,164,897	
Equipment expenditures	+30,000,002	45	,000,002	<b>~~</b>	4-	**	Ţ., . o ., o o /	
Real estate expenditures								
Total expenditures	\$152,191,129	\$22,467,571	\$129,723,558	\$985,711	\$197	\$2,922,114	\$9,614,022	

# APPENDIX N: DETAILED ECONOMIC CONTRIBUTIONS OF TRIP AND PACKAGE SPENDING

The following tables present measures of the economic contributions of trip and package expenditures made by resident and nonresident anglers, for each region, by type of water fished, and by use of guides. Figures include the direct and multiplier effects of angler spending on output, employment and income within each analysis strata.

- N1. Economic contributions of Statewide trip-related expenditures
- N2. Economic contributions of Statewide package expenditures
- N3. Economic contributions of Southeast Region trip-related expenditures
- N4. Economic contributions of Southeast Region package expenditures
- N5. Economic contributions of Southcentral Region trip-related expenditures
- N6. Economic contributions of Southcentral Region package pending
- N7. Economic contributions of Interior Region trip-related expenditures
- N8. Economic contributions of Interior Region package expenditures
- N9. Economic contributions of Cook Inlet Subregion trip-related expenditures
- N10. Economic contributions of Cook Inlet Subregion package expenditures
- N11. Economic contributions of Southeast Marine Subregion trip-related expenditures
- N12. Economic contributions of Southeast Marine Subregion package expenditures

Appendix N1.–Statewide economic contributions of TRIP-RELATED expenditures for sportfishing, by residency, guided/unguided, and type of water. (excluding package spending), 2007.

	RES	IDENT	NONRE	SIDENT	T(	OTAL	ALL
	Guided	Unguided	Guided	Unguided	RESIDENT	NONRESIDENT	ANGLERS
FRESHWATER ANGI		<u>,                                    </u>		<u>,                                    </u>			
Direct effects							
Output	\$27,980,438	\$77,087,031	\$87,665,237	\$73,141,266	\$105,067,469	\$160,806,503	\$265,873,972
Income	\$8,801,815	\$24,603,743	\$31,770,969	\$29,558,666	\$33,405,558	\$61,329,635	\$94,735,193
Employment	377	732	1,148	823	1,108	1,970	3,079
Multiplier effects							
Output	\$18,583,846	\$49,466,965	\$58,854,547	\$48,756,629	\$68,050,811	\$107,611,176	\$175,661,987
Income	\$5,968,112	\$14,570,551	\$18,631,869	\$14,718,026	\$20,538,663	\$33,349,895	\$53,888,558
Employment	144	336	467	371	480	837	1,318
Total effects							
Output	\$46,564,284	\$126,553,996	\$146,519,784	\$121,897,895	\$173,118,280	\$268,417,679	\$441,535,959
Income	\$14,769,927	\$39,174,294	\$50,402,838	\$44,276,692	\$53,944,221	\$94,679,530	\$148,623,751
Employment	521	1,068	1,614	1,193	1,589	2,808	4,396
SALTWATER ANGLE	<u>RS</u>						
Direct effects							
Output	\$32,500,598	\$81,613,303	\$134,833,212	\$32,329,906	\$114,113,901	\$167,163,118	\$281,277,019
Income	\$10,326,686	\$25,261,992	\$47,759,832	\$12,376,582	\$35,588,678	\$60,136,414	\$95,725,092
Employment	449	841	1,770	356	1,290	2,125	3,416
Multiplier effects							
Output	\$19,798,317	\$53,844,329	\$84,672,427	\$21,100,411	\$73,642,646	\$105,772,838	\$179,415,484
Income	\$6,238,034	\$15,843,381	\$26,304,807	\$6,238,930	\$22,081,415	\$32,543,737	\$54,625,152
Employment	155	360	677	154	515	831	1,346
Total effects							
Output	\$52,298,915	\$135,457,632	\$219,505,639	\$53,430,317	\$187,756,547	\$272,935,956	\$460,692,503
Income	\$16,564,720	\$41,105,373	\$74,064,639	\$18,615,512	\$57,670,093	\$92,680,151	\$150,350,244
Employment	604	1,200	2,447	510	1,805	2,957	4,761
<u>ALL ANGLERS</u>							
Direct effects							
Output	\$60,481,036	\$158,700,334	\$222,498,449	\$105,471,172	\$219,181,370	\$327,969,621	\$547,150,991
Income	\$19,128,501	\$49,865,735	\$79,530,801	\$41,935,248	\$68,994,236	\$121,466,049	\$190,460,285
Employment	826	1,572	2,917	1,179	2,399	4,096	6,494
Multiplier effects							
Output	\$38,382,163	\$103,311,294	\$143,526,974	\$69,857,040	\$141,693,457	\$213,384,014	\$355,077,471
Income	\$12,206,146	\$30,413,932	\$44,936,676	\$20,956,956	\$42,620,078	\$65,893,632	\$108,513,710
Employment	299	696	1,144	525	995	1,669	2,663
Total effects							
Output	\$98,863,199	\$262,011,628	\$366,025,423	\$175,328,212	\$360,874,827	\$541,353,635	\$902,228,462
Income	\$31,334,647	\$80,279,667	\$124,467,477	\$62,892,204	\$111,614,314	\$187,359,681	\$298,973,995
Employment	1,125	2,268	4,061	1,703	3,393	5,764	9,158

Appendix N2.–Statewide economic contributions of PACKAGE spending for sportfishing, by residency, guided/unguided, and type of water, 2007.

	RES	IDENT	NONRES	SIDENT	Т	OTAL	ALL
	Guided	Unguided	Guided	Unguided	RESIDENT	NONRESIDENT	ANGLERS
FRESHWATER ANGLE	RS						
Direct effects							
Output	\$0	\$0	\$51,056,683	\$8,181,108	\$0	\$59,237,791	\$59,237,791
Income	\$0	\$0	\$16,315,241	\$2,607,214	\$0	\$18,922,455	\$18,922,455
Employment	0	0	695	92	0	786	786
Multiplier effects							
Output	\$0	\$0	\$34,645,480	\$5,714,607	\$0	\$40,360,087	\$40,360,087
Income	\$0	\$0	\$10,976,900	\$1,676,627	\$0	\$12,653,527	\$12,653,527
Employment	0	0	271	42	0	312	312
Total effects							
Output	\$0	\$0	\$85,702,163	\$13,895,715	\$0	\$99,597,878	\$99,597,878
Income	\$0	\$0	\$27,292,141	\$4,283,841	\$0	\$31,575,982	\$31,575,982
Employment	0	0	965	133	0	1,099	1,099
SALTWATER ANGLER Direct effects	<del></del>						
Output	\$0	\$0	\$55,451,978	\$6,544,009	\$0	\$61,995,987	\$61,995,987
Income	\$0	\$0	\$17,699,544	\$2,110,456	\$0	\$19,810,000	\$19,810,000
Employment	0	0	761	76	0	836	836
Multiplier effects							
Output	\$0	\$0	\$35,055,714	\$4,493,312	\$0	\$39,549,026	\$39,549,026
Income	\$0	\$0	\$10,885,211	\$1,297,469	\$0	\$12,182,680	\$12,182,680
Employment	0	0	271	32	0	304	304
Total effects							
Output	\$0	\$0	\$90,507,692	\$11,037,321	\$0	\$101,545,013	\$101,545,013
Income	\$0	\$0	\$28,584,755	\$3,407,925	\$0	\$31,992,680	\$31,992,680
Employment	0	0	1,032	108	0	1,140	1,140
ALL ANGLERS Direct effects							
Output	\$0	\$0	\$106,508,661	\$14,725,117	\$0	\$121,233,778	\$121,233,778
Income	\$0	\$0	\$34,014,785	\$4,717,670	\$0	\$38,732,455	\$38,732,455
Employment	0	0	1,455	168	0	1,623	1,623
Multiplier effects							
Output	\$0	\$0	\$69,701,194	\$10,207,919	\$0	\$79,909,113	\$79,909,113
Income	\$0	\$0	\$21,862,111	\$2,974,096	\$0	\$24,836,207	\$24,836,207
Employment	0	0	542	74	0	616	616
Total effects							
Output	\$0	\$0	\$176,209,855	\$24,933,036	\$0	\$201,142,891	\$201,142,891
Income	\$0	\$0	\$55,876,896	\$7,691,766	\$0	\$63,568,662	\$63,568,662
Employment	0	0	1,997	241	0	2,239	2,239

Appendix N3.—Southeast Region economic contributions of TRIP-RELATED expenditures for sportfishing, by residency, guided/unguided, and type of water. (excluding package spending), 2007.

	RESI	DENT	NONRE	SIDENT	T	OTAL	ALL
	Guided	Unguided	Guided	Unguided	RESIDENT	NONRESIDENT	ANGLERS
FRESHWATER ANGLER		<u> </u>		<u> </u>			
Direct effects							
Output	\$207,915	\$907,746	\$6,933,285	\$7,109,834	\$1,115,661	\$14,043,119	\$15,158,780
Income	\$67,315	\$305,200	\$2,207,581	\$2,312,283	\$372,515	\$4,519,864	\$4,892,379
Employment	3	11	85	86	13	171	184
Multiplier effects							
Output	\$103,172	\$352,723	\$3,247,224	\$3,115,471	\$455,895	\$6,362,695	\$6,818,590
Income	\$37,226	\$112,597	\$1,094,164	\$1,020,719	\$149,823	\$2,114,883	\$2,264,706
Employment	1	3	31	30	4	62	66
Total effects							
Output	\$311,087	\$1,260,469	\$10,180,509	\$10,225,305	\$1,571,556	\$20,405,814	\$21,977,370
Income	\$104,541	\$417,797	\$3,301,745	\$3,333,002	\$522,338	\$6,634,747	\$7,157,085
Employment	4	14	116	116	18	233	250
SALTWATER ANGLERS	<u>S</u>						
Direct effects							
Output	\$2,887,909	\$17,416,421	\$45,842,612	\$17,550,969	\$20,304,330	\$63,393,581	\$83,697,911
Income	\$915,608	\$5,641,068	\$14,653,514	\$5,750,808	\$6,556,676	\$20,404,322	\$26,960,998
Employment	34	192	559	197	226	756	982
Multiplier effects							
Output	\$1,274,669	\$6,665,412	\$20,307,327	\$6,948,723	\$7,940,081	\$27,256,050	\$35,196,131
Income	\$424,660	\$2,150,884	\$6,726,094	\$2,198,489	\$2,575,544	\$8,924,583	\$11,500,127
Employment	13	63	200	67	76	266	342
Total effects							
Output	\$4,162,578	\$24,081,833	\$66,149,939	\$24,499,692	\$28,244,411	\$90,649,631	\$118,894,042
Income	\$1,340,268	\$7,791,952	\$21,379,608	\$7,949,297	\$9,132,220	\$29,328,905	\$38,461,125
Employment	46	255	759	264	301	1,022	1,324
ALL ANGLERS							
Direct effects							
Output	\$3,095,824	\$18,324,167	\$52,775,897	\$24,660,803	\$21,419,991	\$77,436,700	\$98,856,691
Income	\$982,923	\$5,946,268	\$16,861,095	\$8,063,091	\$6,929,191	\$24,924,186	\$31,853,377
Employment	36	202	644	283	239	927	1,165
Multiplier effects							
Output	\$1,377,841	\$7,018,135	\$23,554,551	\$10,064,194	\$8,395,976	\$33,618,745	\$42,014,721
Income	\$461,886	\$2,263,481	\$7,820,258	\$3,219,208	\$2,725,367	\$11,039,466	\$13,764,833
Employment	14	67	231	97	80	328	408
Total effects							
Output	\$4,473,665	\$25,342,302	\$76,330,448	\$34,724,997	\$29,815,967	\$111,055,445	\$140,871,412
Income	\$1,444,809	\$8,209,749	\$24,681,353	\$11,282,299	\$9,654,558	\$35,963,652	\$45,618,210
Employment	50	269	875	380	319	1,255	1,574

Appendix N4.—Southeast Region economic contributions of PACKAGE expenditures for sportfishing, by residency, guided/unguided, and type of water. (excluding package spending),2007.

	RES	SIDENT	NONRES	SIDENT	T	OTAL	ALL
	Guided	Unguided	Guided	Unguided	RESIDENT	NONRESIDENT	ANGLERS
FRESHWATER ANGLERS	<u>S</u>						
Direct effects							
Output	\$0	\$0	\$1,794,465	\$852,349	\$0	\$2,646,814	\$2,646,814
Income	\$0	\$0	\$551,835	\$245,914	\$0	\$797,749	\$797,749
Employment	0	0	22	10	0	32	32
Multiplier effects							
Output	\$0	\$0	\$837,740	\$365,227	\$0	\$1,202,967	\$1,202,967
Income	\$0	\$0	\$283,935	\$114,777	\$0	\$398,712	\$398,712
Employment	0	0	8	4	0	11	11
Total effects							
Output	\$0	\$0	\$2,632,205	\$1,217,576	\$0	\$3,849,781	\$3,849,781
Income	\$0	\$0	\$835,770	\$360,691	\$0	\$1,196,461	\$1,196,461
Employment	0	0	30	13	0	43	43
SALTWATER ANGLERS Direct effects							
Output	\$0	\$0	\$30,088,145	\$3,451,828	\$0	\$33,539,973	\$33,539,973
Income	\$0	\$0	\$9,495,235	\$1,066,695	\$0	\$10,561,930	\$10,561,930
Employment	0	0	394	44	0	438	438
Multiplier effects							
Output	\$0	\$0	\$13,116,355	\$1,488,182	\$0	\$14,604,537	\$14,604,537
Income	\$0	\$0	\$4,322,469	\$479,367	\$0	\$4,801,836	\$4,801,836
Employment	0	0	122	14	0	135	135
Total effects							
Output	\$0	\$0	\$43,204,500	\$4,940,010	\$0	\$48,144,510	\$48,144,510
Income	\$0	\$0	\$13,817,704	\$1,546,062	\$0	\$15,363,766	\$15,363,766
Employment	0	0	515	58	0	573	573
ALL ANGLERS Direct effects							
Output	\$0	\$0	\$31,882,610	\$4,304,177	\$0	\$36,186,787	\$36,186,787
Income	\$0	\$0	\$10,047,070	\$1,312,609	\$0	\$11,359,679	\$11,359,679
Employment	0	0	416	54	0	470	470
Multiplier effects							
Output	\$0	\$0	\$13,954,095	\$1,853,409	\$0	\$15,807,504	\$15,807,504
Income	\$0	\$0	\$4,606,404	\$594,144	\$0	\$5,200,548	\$5,200,548
Employment	0	0	129	17	0	147	147
Total effects							
Output	\$0	\$0	\$45,836,705	\$6,157,586	\$0	\$51,994,291	\$51,994,291
Income	\$0	\$0	\$14,653,474	\$1,906,753	\$0	\$16,560,227	\$16,560,227
Employment	0	0	546	71	0	617	617

Appendix N5.—Southcentral Region economic contributions of combined TRIP-RELATED expenditures for sportfishing, by residency, guided/unguided, and type of water, 2007.

	RES	IDENT	NONRE	SIDENT	TO	DTAL	ALL
	Guided	Unguided	Guided	Unguided	RESIDENT	NONRESIDENT	ANGLERS
FRESHWATER ANGI	<u>LERS</u>						
Direct effects							
Output	\$26,235,805	\$63,718,045	\$71,809,335	\$50,700,827	\$89,953,850	\$122,510,162	\$212,464,012
Income	\$8,089,164	\$18,556,535	\$24,843,909	\$18,559,288	\$26,645,699	\$43,403,197	\$70,048,896
Employment	367	606	961	563	973	1,524	2,497
Multiplier effects							
Output	\$18,707,451	\$46,090,614	\$51,718,626	\$36,529,397	\$64,798,065	\$88,248,023	\$153,046,088
Income	\$6,028,334	\$13,691,946	\$16,481,748	\$11,092,253	\$19,720,280	\$27,574,001	\$47,294,281
Employment	144	305	408	275	449	683	1,132
Total effects							
Output	\$44,943,256	\$109,808,659	\$123,527,961	\$87,230,224	\$154,751,915	\$210,758,185	\$365,510,100
Income	\$14,117,498	\$32,248,481	\$41,325,657	\$29,651,541	\$46,365,979	\$70,977,198	\$117,343,177
Employment	511	911	1,369	838	1,422	2,206	3,628
SALTWATER ANGLE	<u>RS</u>						
Direct effects							
Output	\$27,657,787	\$58,342,772	\$80,046,872	\$10,464,044	\$86,000,559	\$90,510,916	\$176,511,475
Income	\$8,656,289	\$17,120,838	\$27,529,521	\$3,446,694	\$25,777,127	\$30,976,215	\$56,753,342
Employment	403	596	1,055	119	998	1,174	2,172
Multiplier effects							
Output	\$17,875,434	\$43,280,284	\$53,591,945	\$7,440,167	\$61,155,718	\$61,032,112	\$122,187,830
Income	\$5,669,935	\$12,783,113	\$16,759,180	\$2,248,948	\$18,453,048	\$19,008,128	\$37,461,176
Employment	140	280	429	55	420	484	904
Total effects							
Output	\$45,533,221	\$101,623,056	\$133,638,817	\$17,904,211	\$147,156,277	\$151,543,028	\$298,699,305
Income	\$14,326,224	\$29,903,951	\$44,288,701	\$5,695,642	\$44,230,175	\$49,984,343	\$94,214,518
Employment	543	875	1,484	174	1,418	1,658	3,076
ALL ANGLERS							
Direct effects							
Output	\$53,893,592	\$122,060,817	\$151,856,207	\$61,164,871	\$175,954,409	\$213,021,078	\$388,975,487
Income	\$16,745,453	\$35,677,373	\$52,373,430	\$22,005,982	\$52,422,826	\$74,379,412	\$126,802,238
Employment	769	1,202	2,016	682	1,971	2,698	4,669
Multiplier effects							
Output	\$36,582,885	\$89,370,898	\$105,310,571	\$43,969,564	\$125,953,783	\$149,280,135	\$275,233,918
Income	\$11,698,269	\$26,475,059	\$33,240,928	\$13,341,201	\$38,173,328	\$46,582,129	\$84,755,457
Employment	284	584	837	330	869	1,167	2,035
Total effects							
Output	\$90,476,477	\$211,431,715	\$257,166,778	\$105,134,435	\$301,908,192	\$362,301,213	\$664,209,405
Income	\$28,443,722	\$62,152,432	\$85,614,358	\$35,347,183	\$90,596,154	\$120,961,541	\$211,557,695
Employment	1,054	1,786	2,852	1,012	2,840	3,864	6,704

Appendix N6.—Southcentral Region economic contributions of PACKAGE expenditures for sportfishing, by residency, guided/unguided, and type of water, 2007.

	RES	IDENT	NONRES	SIDENT	T	OTAL	ALL
	Guided	Unguided	Guided	Unguided	RESIDENT	NONRESIDENT	ANGLERS
FRESHWATER ANGLER	<u>RS</u>						
Direct effects							
Output	\$0	\$0	\$44,603,221	\$7,092,660	\$0	\$51,695,881	\$51,695,881
Income	\$0	\$0	\$14,238,216	\$2,289,937	\$0	\$16,528,153	\$16,528,153
Employment	0	0	-2	82	0	80	80
Multiplier effects							
Output	\$0	\$0	\$31,972,655	\$5,290,074	\$0	\$37,262,729	\$37,262,729
Income	\$0	\$0	\$10,215,917	\$1,580,918	\$0	\$11,796,835	\$11,796,835
Employment	0	0	-20	39	0	19	19
Total effects							
Output	\$0	\$0	\$76,575,876	\$12,382,734	\$0	\$88,958,610	\$88,958,610
Income	\$0	\$0	\$24,454,133	\$3,870,855	\$0	\$28,324,988	\$28,324,988
Employment	0	0	-22	121	0	99	99
SALTWATER ANGLERS	<u> </u>						
Direct effects							
Output	\$0	\$0	\$23,868,813	\$3,092,148	\$0	\$26,960,961	\$26,960,961
Income	\$0	\$0	\$7,551,574	\$1,036,614	\$0	\$8,588,188	\$8,588,188
Employment	0	0	338	32	0	370	370
Multiplier effects							
Output	\$0	\$0	\$16,129,119	\$2,439,147	\$0	\$18,568,266	\$18,568,266
Income	\$0	\$0	\$5,049,662	\$689,095	\$0	\$5,738,757	\$5,738,757
Employment	0	0	125	16	0	141	141
Total effects							
Output	\$0	\$0	\$39,997,932	\$5,531,295	\$0	\$45,529,227	\$45,529,227
Income	\$0	\$0	\$12,601,236	\$1,725,709	\$0	\$14,326,945	\$14,326,945
Employment	0	0	463	48	0	511	511
ALL ANGLERS							
Direct effects							
Output	\$0	\$0	\$68,472,034	\$10,184,808	\$0	\$78,656,842	\$78,656,842
Income	\$0	\$0	\$21,789,790	\$3,326,551	\$0	\$25,116,341	\$25,116,341
Employment	0	0	336	114	0	450	450
Multiplier effects							
Output	\$0	\$0	\$48,101,774	\$7,729,221	\$0	\$55,830,995	\$55,830,995
Income	\$0	\$0	\$15,265,579	\$2,270,013	\$0	\$17,535,592	\$17,535,592
Employment	0	0	105	55	0	160	160
Total effects							
Output	\$0	\$0	\$116,573,808	\$17,914,029	\$0	\$134,487,837	\$134,487,837
Income	\$0	\$0	\$37,055,369	\$5,596,564	\$0	\$42,651,933	\$42,651,933
Employment	0	0	441	169	0	610	610

Appendix N7.—Interior Region economic contributions of TRIP-RELATED expenditures for sportfishing, by residency, guided/unguided, and type of water, 2007.

	RESI	DENT	NONRE	SIDENT	T	OTAL	ALL
	Guided	Unguided	Guided	Unguided	RESIDENT	NONRESIDENT	ANGLERS
FRESHWATER ANGLE	<u>ERS</u>						
Direct effects							
Output	\$1,223,964	\$8,091,845	\$5,826,486	\$8,764,006	\$9,315,809	\$14,590,492	\$23,906,301
Income	\$352,570	\$2,202,287	\$1,974,906	\$2,909,178	\$2,554,857	\$4,884,084	\$7,438,941
Employment	16	68	86	96	84	182	266
Multiplier effects							
Output	\$525,825	\$2,993,829	\$2,754,129	\$4,484,336	\$3,519,654	\$7,238,465	\$10,758,119
Income	\$173,890	\$834,983	\$897,888	\$1,338,933	\$1,008,873	\$2,236,821	\$3,245,694
Employment	4	22	22	33	26	56	82
Total effects							
Output	\$1,749,789	\$11,085,674	\$8,580,615	\$13,248,342	\$12,835,463	\$21,828,957	\$34,664,420
Income	\$526,460	\$3,037,270	\$2,872,794	\$4,248,111	\$3,563,730	\$7,120,905	\$10,684,635
Employment	20	89	108	130	110	238	348
SALTWATER ANGLER	<u>RS</u>						
Direct effects							
Output	\$1,568,683	\$2,972,466	\$4,273,685	\$633,581	\$4,541,149	\$4,907,266	\$9,448,415
Income	\$419,209	\$770,363	\$1,449,497	\$212,250	\$1,189,572	\$1,661,747	\$2,851,319
Employment	16	22	67	8	38	75	113
Multiplier effects							
Output	\$717,374	\$1,050,582	\$1,830,484	\$247,204	\$1,767,956	\$2,077,688	\$3,845,644
Income	\$202,679	\$285,717	\$577,040	\$71,463	\$488,396	\$648,503	\$1,136,899
Employment	5	7	15	2	12	16	29
Total effects							
Output	\$2,286,057	\$4,023,048	\$6,104,169	\$880,785	\$6,309,105	\$6,984,954	\$13,294,059
Income	\$621,888	\$1,056,080	\$2,026,537	\$283,713	\$1,677,968	\$2,310,250	\$3,988,218
Employment	21	29	82	10	50	91	141
<b>ALL ANGLERS</b>							
Direct effects							
Output	\$2,792,647	\$11,064,311	\$10,100,171	\$9,397,587	\$13,856,958	\$19,497,758	\$33,354,716
Income	\$771,779	\$2,972,650	\$3,424,403	\$3,121,428	\$3,744,429	\$6,545,831	\$10,290,260
Employment	32	90	153	104	121	257	378
Multiplier effects							
Output	\$1,243,199	\$4,044,411	\$4,584,613	\$4,731,540	\$5,287,610	\$9,316,153	\$14,603,763
Income	\$376,569	\$1,120,700	\$1,474,928	\$1,410,396	\$1,497,269	\$2,885,324	\$4,382,593
Employment	9	29	37	35	39	72	111
Total effects							
Output	\$4,035,846	\$15,108,722	\$14,684,784	\$14,129,127	\$19,144,568	\$28,813,911	\$47,958,479
Income	\$1,148,348	\$4,093,350	\$4,899,331	\$4,531,824	\$5,241,698	\$9,431,155	\$14,672,853
Employment	41	119	190	139	160	329	489

Appendix N8.–Interior Region economic contributions of PACKAGE expenditures for sportfishing, by residency, guided/unguided, and type of water, 2007.

	RES	IDENT	NONRES	IDENT	T	OTAL	ALL
	Guided	Unguided	Guided	Unguided	RESIDENT	NONRESIDENT	ANGLERS
FRESHWATER ANGLE	:RS						
Direct effects							
Output	\$0	\$0	\$4,658,912	\$236,082	\$0	\$4,894,994	\$4,894,994
Income	\$0	\$0	\$1,449,388	\$72,833	\$0	\$1,522,221	\$1,522,221
Employment	0	0	61	3	0	64	64
Multiplier effects							
Output	\$0	\$0	\$2,334,350	\$121,021	\$0	\$2,455,371	\$2,455,371
Income	\$0	\$0	\$745,651	\$36,569	\$0	\$782,220	\$782,220
Employment	0	0	18	1	0	19	19
Total effects							
Output	\$0	\$0	\$6,993,262	\$357,103	\$0	\$7,350,365	\$7,350,365
Income	\$0	\$0	\$2,195,039	\$109,402	\$0	\$2,304,441	\$2,304,441
Employment	0	0	79	4	0	83	83
SALTWATER ANGLER	<u>'S</u>						
Direct effects							
Output	\$0	\$0	\$3,867,787	\$0	\$0	\$3,867,787	\$3,867,787
Income	\$0	\$0	\$1,176,797	\$0	\$0	\$1,176,797	\$1,176,797
Employment	0	0	63	0	0	63	63
Multiplier effects							
Output	\$0	\$0	\$1,725,969	\$0	\$0	\$1,725,969	\$1,725,969
Income	\$0	\$0	\$580,607	\$0	\$0	\$580,607	\$580,607
Employment	0	0	14	0	0	14	14
Total effects							
Output	\$0	\$0	\$5,593,756	\$0	\$0	\$5,593,756	\$5,593,756
Income	\$0	\$0	\$1,757,404	\$0	\$0	\$1,757,404	\$1,757,404
Employment	0	0	77	0	0	77	77
ALL ANGLERS							
Direct effects							
Output	\$0	\$0	\$8,526,699	\$236,082	\$0	\$8,762,781	\$8,762,781
Income	\$0	\$0	\$2,626,185	\$72,833	\$0	\$2,699,018	\$2,699,018
Employment	0	0	124	3	0	127	127
Multiplier effects							
Output	\$0	\$0	\$4,060,319	\$121,021	\$0	\$4,181,340	\$4,181,340
Income	\$0	\$0	\$1,326,258	\$36,569	\$0	\$1,362,827	\$1,362,827
Employment	0	0	32	1	0	33	33
Total effects							
Output	\$0	\$0	\$12,587,018	\$357,103	\$0	\$12,944,121	\$12,944,121
Income	\$0	\$0	\$3,952,443	\$109,402	\$0	\$4,061,845	\$4,061,845
Employment	0	0	156	4	0	160	160

Appendix N9.—Cook Inlet Subregion economic contributions of TRIP-RELATED expenditures for sportfishing, by residency, guided/unguided, and type of water, 2007.

	RES	IDENT	NONRES	SIDENT	TO	OTAL	ALL
	Guided	Unguided	Guided	Unguided	RESIDENT	NONRESIDENT	ANGLERS
FRESHWATER ANGI		<u> </u>		J			
Direct effects							
Output	\$21,062,669	\$56,284,227	\$50,439,008	\$39,120,565	\$77,346,896	\$89,559,573	\$166,906,469
Income	\$6,524,363	\$16,313,969	\$17,795,092	\$14,652,935	\$22,838,332	\$32,448,027	\$55,286,359
Employment	296	529	665	439	825	1,104	1,929
Multiplier effects							
Output	\$15,405,485	\$42,545,387	\$38,370,790	\$29,893,827	\$57,950,872	\$68,264,617	\$126,215,489
Income	\$5,005,585	\$12,748,328	\$12,218,613	\$9,170,001	\$17,753,913	\$21,388,614	\$39,142,527
Employment	121	298	322	251	419	573	992
Total effects							
Output	\$36,468,154	\$98,829,614	\$88,809,798	\$69,014,392	\$135,297,768	\$157,824,190	\$293,121,958
Income	\$11,529,948	\$29,062,297	\$30,013,705	\$23,822,936	\$40,592,245	\$53,836,641	\$94,428,886
Employment	417	827	987	690	1,244	1,677	2,921
SALTWATER ANGLE	<u>:RS</u>						
Direct effects							
Output	\$16,816,852	\$24,688,268	\$47,293,211	\$5,135,729	\$41,505,120	\$52,428,940	\$93,934,060
Income	\$5,285,729	\$7,097,041	\$16,586,732	\$1,664,573	\$12,382,770	\$18,251,305	\$30,634,075
Employment	237	236	620	62	473	682	1,155
Multiplier effects							
Output	\$11,468,710	\$19,361,383	\$34,409,996	\$4,014,091	\$30,830,093	\$38,424,087	\$69,254,180
Income	\$3,626,328	\$5,746,835	\$10,791,375	\$1,223,957	\$9,373,163	\$12,015,332	\$21,388,495
Employment	94	132	303	33	226	336	562
Total effects							
Output	\$28,285,562	\$44,049,651	\$81,703,207	\$9,149,820	\$72,335,213	\$90,853,027	\$163,188,240
Income	\$8,912,057	\$12,843,876	\$27,378,107	\$2,888,530	\$21,755,933	\$30,266,637	\$52,022,570
Employment	332	368	923	94	700	1,017	1,717
ALL ANGLERS							
Direct effects							
Output	\$37,879,521	\$80,972,495	\$97,732,219	\$44,256,294	\$118,852,016	\$141,988,513	\$260,840,529
Income	\$11,810,092	\$23,411,010	\$34,381,824	\$16,317,508	\$35,221,102	\$50,699,332	\$85,920,434
Employment	533	765	1,285	501	1,298	1,786	3,084
Multiplier effects							
Output	\$26,874,195	\$61,906,770	\$72,780,786	\$33,907,918	\$88,780,965	\$106,688,704	\$195,469,669
Income	\$8,631,913	\$18,495,163	\$23,009,988	\$10,393,958	\$27,127,076	\$33,403,946	\$60,531,022
Employment	216	430	625	283	645	908	1,553
Total effects							
Output	\$64,753,716	\$142,879,265	\$170,513,005	\$78,164,212	\$207,632,981	\$248,677,217	\$456,310,198
Income	\$20,442,005	\$41,906,173	\$57,391,812	\$26,711,466	\$62,348,178	\$84,103,278	\$146,451,456
Employment	749	1,195	1,910	784	1,943	2,694	4,638

Appendix N10.—Cook Inlet Subregion economic contributions of PACKAGE expenditures for sportfishing, by residency, guided/unguided, and type of water, 2007.

	RES	IDENT	NONRES	SIDENT	T	OTAL	ALL
	Guided	Unguided	Guided	Unguided	RESIDENT	NONRESIDENT	ANGLERS
FRESHWATER ANGLE	RS						
Direct effects							
Output	\$0	\$0	\$7,952,368	\$3,872,414	\$0	\$11,824,782	\$11,824,782
Income	\$0	\$0	\$2,533,665	\$1,247,408	\$0	\$3,781,073	\$3,781,073
Employment	0	0	115	45	0	160	160
Multiplier effects							
Output	\$0	\$0	\$5,841,485	\$2,993,022	\$0	\$8,834,507	\$8,834,507
Income	\$0	\$0	\$1,894,830	\$913,633	\$0	\$2,808,463	\$2,808,463
Employment	0	0	47	22	0	69	69
Total effects							
Output	\$0	\$0	\$13,793,853	\$6,865,436	\$0	\$20,659,289	\$20,659,289
Income	\$0	\$0	\$4,428,495	\$2,161,041	\$0	\$6,589,536	\$6,589,536
Employment	0	0	161	67	0	228	228
SALTWATER ANGLER	<u>S</u>						
Direct effects							
Output	\$0	\$0	\$8,491,242	\$464,954	\$0	\$8,956,196	\$8,956,196
Income	\$0	\$0	\$2,682,329	\$150,540	\$0	\$2,832,869	\$2,832,869
Employment	0	0	122	5	0	128	128
Multiplier effects							
Output	\$0	\$0	\$5,837,615	\$350,300	\$0	\$6,187,915	\$6,187,915
Income	\$0	\$0	\$1,851,993	\$104,845	\$0	\$1,956,838	\$1,956,838
Employment	0	0	46	3	0	48	48
Total effects							
Output	\$0	\$0	\$14,328,857	\$815,254	\$0	\$15,144,111	\$15,144,111
Income	\$0	\$0	\$4,534,322	\$255,385	\$0	\$4,789,707	\$4,789,707
Employment	0	0	168	8	0	176	176
ALL ANGLERS							
Direct effects							
Output	\$0	\$0	\$16,443,610	\$4,337,368	\$0	\$20,780,978	\$20,780,978
Income	\$0	\$0	\$5,215,994	\$1,397,948	\$0	\$6,613,942	\$6,613,942
Employment	0	0	237	50	0	287	287
Multiplier effects							
Output	\$0	\$0	\$11,679,100	\$3,343,322	\$0	\$15,022,422	\$15,022,422
Income	\$0	\$0	\$3,746,823	\$1,018,478	\$0	\$4,765,301	\$4,765,301
Employment	0	0	92	25	0	117	117
Total effects							
Output	\$0	\$0	\$28,122,710	\$7,680,690	\$0	\$35,803,400	\$35,803,400
Income	\$0	\$0	\$8,962,817	\$2,416,426	\$0	\$11,379,243	\$11,379,243
Employment	0	0	329	75	0	404	404

Appendix N11.—Southeast Marine Subregion economic contributions of TRIP-RELATED expenditures by anglers for sportfishing, by residency and guided/unguided, 2007.

	RESI	DENT	NONRE	SIDENT	T	OTAL	ALL
	Guided	Unguided	Guided	Unguided	RESIDENT	NONRESIDENT	ANGLERS
SALTWATER ANGLE	:RS						
Direct effects							
Output	\$2,887,909	\$17,416,421	\$45,842,612	\$17,550,969	\$20,304,330	\$63,393,581	\$83,697,911
Income	\$915,608	\$5,641,068	\$14,653,514	\$5,750,808	\$6,556,676	\$20,404,322	\$26,960,998
Employment	34	192	559	197	226	756	982
Multiplier effects							
Output	\$1,274,669	\$6,665,412	\$20,307,327	\$6,948,723	\$7,940,081	\$27,256,050	\$35,196,131
Income	\$424,660	\$2,150,884	\$6,726,094	\$2,198,489	\$2,575,544	\$8,924,583	\$11,500,127
Employment	13	63	200	67	76	266	342
Total effects							
Output	\$4,162,578	\$24,081,833	\$66,149,939	\$24,499,692	\$28,244,411	\$90,649,631	\$118,894,042
Income	\$1,340,268	\$7,791,952	\$21,379,608	\$7,949,297	\$9,132,220	\$29,328,905	\$38,461,125
Employment	46	255	759	264	301	1,022	1,324

Appendix N12.-Southeast Marine Subregion economic contributions of PACKAGE expenditures by anglers for sportfishing, by residency, and guided/unguided, 2007.

	RES	SIDENT	NONRES	SIDENT	Ţ	OTAL	ALL
	Guided	Unguided	Guided	Unguided	RESIDENT	NONRESIDENT	ANGLERS
SALTWATER ANGLE	RS						
Direct effects							
Output	\$0	\$0	\$30,088,145	\$3,451,828	\$0	\$33,539,973	\$33,539,973
Income	\$0	\$0	\$9,495,235	\$1,066,695	\$0	\$10,561,930	\$10,561,930
Employment	0	0	394	44	0	438	438
Multiplier effects							
Output	\$0	\$0	\$13,116,355	\$1,488,182	\$0	\$14,604,537	\$14,604,537
Income	\$0	\$0	\$4,322,469	\$479,367	\$0	\$4,801,836	\$4,801,836
Employment	0	0	122	14	0	135	135
Total effects							
Output	\$0	\$0	\$43,204,500	\$4,940,010	\$0	\$48,144,510	\$48,144,510
Income	\$0	\$0	\$13,817,704	\$1,546,062	\$0	\$15,363,766	\$15,363,766
Employment	0	0	515	58	0	573	573

## APPENDIX O: DETAILED INDUSTRY IMPACTS OF ANGLER SPENDING

The following tables present estimates of output, income and employment in each region's industries that are the result of angler spending. Direct, indirect and induced effects of angler spending on industry output, income and employment are reported separately for expenditures by residents and nonresidents

- O1. Industry output, income and employment impacts of all angler spending statewide
- O2. Industry output, income and employment impacts of resident angler spending statewide
- O3. Industry output, income and employment impacts of nonresident angler spending statewide
- O4. Industry output, income and employment impacts of all angler spending in the Southeast Region
- O5. Industry output, income and employment impacts of resident angler spending in the Southeast Region
- O6. Industry output, income and employment impacts of nonresident angler spending in the Southeast Region
- O7. Industry output, income and employment impacts of all angler spending in the Southcentral Region
- O8. Industry output, income and employment impacts of resident angler spending in the Southcentral Region
- O9. Industry output, income and employment impacts of nonresident angler spending in the Southcentral Region
- O10. Industry output, income and employment impacts of all angler spending in the Interior Region
- O11. Industry output, income and employment impacts of resident angler spending in the Interior Region
- O12. Industry output, income and employment impacts of nonresident angler spending in the Interior Region
- O13. Industry output, income and employment impacts of all angler spending in the Cook Inlet Subregion
- O14. Industry output, income and employment impacts of resident angler spending in the Cook Inlet Subregion
- O15. Industry output, income and employment impacts of nonresident angler spending in the Cook Inlet Subregion

Appendix O1.—Industry output, income and employment impacts of all angler spending statewide.

Industry OUTPUT impacts STATEWIDE due to RESIDENT & NONRESIDENT angler expenditures.

NAICS Industry Categories	Direct	Indirect	Induced	Tota
11 Ag, Forestry, Fish & Hunting	7,123,950.0	3,896,625.0	480,406.0	11,500,985.0
21 Mining	2,463,387.0	44,314,305.0	7,970,862.0	54,748,554.0
22 Utilities	-	10,770,826.0	7,813,240.0	18,572,066.0
23 Construction	182,837,152.0	8,993,346.0	(1,228,934.0)	190,601,573.0
31-33 Manufacturing	80,241,946.0	42,905,653.0	23,007,721.0	146,155,318.0
42 Wholesale Trade	58,694,331.0	12,304,206.0	8,742,633.0	79,741,288.0
48-49 Transportation & Warehousing	67,589,707.0	23,980,982.0	11,202,183.0	103,972,875.0
44-45 Retail trade	170,337,105.0	16,154,722.0	36,645,817.0	223,137,637.0
51 Information	19,156.0	19,612,731.0	2,822,912.0	22,574,800.0
52 Finance & insurance	-	11,758,338.0	20,393,220.0	32,151,557.0
53 Real estate & rental	26,969,855.0	40,198,791.0	11,433,869.0	78,602,514.0
54 Professional- scientific & tech svcs	-	35,680,553.0	3,333,100.0	39,013,638.0
55 Management of companies	-	7,026,732.0	217,722.0	7,244,452.0
56 Administrative & waste services	754,665.0	18,126,836.0	3,125,843.0	22,007,345.0
61 Educational svcs	-	227,697.0	3,049,005.0	3,276,702.0
62 Health & social services	-	13,754.0	49,257,887.0	49,270,438.0
71 Arts- entertainment & recreation	188,880,071.0	5,781,850.0	2,721,734.0	197,383,654.0
72 Accomodation & food services	151,970,899.0	8,291,823.0	22,063,399.0	182,326,116.0
81 Other services	26,832,964.0	6,501,463.0	17,088,897.0	50,543,317.0
92 Govemment & non NAICs	26,197,494.0	10,329,368.0	58,228,796.0	94,755,651.0
Imports and other non-industry sources	376,268,276.0	-	-	376,268,276.0
Total Angler Expenditures	1,368,380,952.0	327,002,702.0	288,478,307.0	1,983,848,756.0

Industry INCOME impacts STATEWIDE due to RESIDENT & NONRESIDENT angler expenditures.

NAICS Industry Categories	Direct	Indirect	Induced	Tota
11 Ag, Forestry, Fish & Hunting	2,130,556.0	1,042,997.0	111,794.0	3,285,464.0
21 Mining	633,055.0	11,468,291.0	2,061,438.0	14,162,784.0
22 Utilities	=	2,272,721.0	1,943,947.0	4,216,665.0
23 Construction	69,672,076.0	4,136,159.0	(498,557.0)	73,297,674.0
31-33 Manufacturing	6,441,252.0	3,620,837.0	2,039,789.0	12,101,878.0
42 Wholesale Trade	22,183,199.0	4,650,351.0	3,304,228.0	30,137,777.0
48-49 Transportation & Warehousing	20,332,369.0	11,832,122.0	3,814,616.0	35,979,105.0
44-45 Retail trade	71,825,008.0	6,627,293.0	15,118,222.0	93,570,520.0
51 Information	5,428.0	4,783,796.0	419,114.0	5,208,338.0
52 Finance & insurance	-	3,603,186.0	5,675,807.0	9,278,993.0
53 Real estate & rental	17,669,913.0	6,430,676.0	2,041,991.0	26,022,582.0
54 Professional- scientific & tech svcs	-	15,567,060.0	1,360,081.0	16,927,139.0
55 Management of companies	-	3,030,826.0	93,909.0	3,124,735.0
56 Administrative & waste services	240,480.0	7,223,062.0	961,116.0	8,423,458.0
61 Educational svcs	-	102,374.0	1,419,764.0	1,522,139.0
62 Health & social services	-	5,466.0	26,733,060.0	26,738,526.0
71 Arts- entertainment & recreation	59,334,656.0	2,577,399.0	843,136.0	62,779,190.0
72 Accomodation & food services	50,847,026.0	3,003,496.0	7,839,376.0	61,689,901.0
81 Other services	8,945,344.0	2,648,111.0	7,035,117.0	18,628,572.0
92 Government & non NAICs	23,875,526.0	2,995,553.0	11,048,379.0	37,919,458.0
Imports and other non-industry sources	-	· · ·	· ′ -	· · · · · -
Total Angler Expenditures	354.123.881.0	97.645.884.0	93,474,323,0	545,256,091,0

Industry EMPLOYMENT impacts STATEWIDE due to RESIDENT & NONRESIDENT angler expenditures

NAICS Industry Categories	Direct	Indirect	Induced	Tota
11 Ag, Forestry, Fish & Hunting	205	100	7	312
21 Mining	3	60	11	74
22 Utilities	<u>-</u>	22	21	43
23 Construction	1.035	61	(8)	1,088
31-33 Manufacturing	163	81	69	313
42 Wholesale Trade	407	85	61	554
48-49 Transportation & Warehousing	395	219	82	696
44-45 Retail trade	2,650	215	488	3,353
51 Information	´-	101	4	105
52 Finance & insurance	-	64	97	<b>1</b> 61
53 Real estate & rental	334	315	90	738
54 Professional- scientific & tech svcs	-	299	44	342
55 Management of companies	-	39	1	40
56 Administrative & waste services	5	249	43	297
61 Educational svcs	-	4	61	65
62 Health & social services	-	-	565	565
71 Arts- entertainment & recreation	3,187	131	43	3,362
72 Accomodation & food services	2,054	130	342	2,526
81 Other services	259	85	266	610
92 Government & non NAICs	384	63	189	635
Imports and other non-industry sources	-	-	-	_
Total Angler Expenditures	11,080	2,323	2,476	15,879

Appendix O2.-Industry output, income and employment impacts of resident angler spending statewide.

Industry OUTPUT impacts STATEWIDE due to RESIDENT angler expenditures.

NAICS Industry Categories	Direct	Indirect	Induced	Tota
44 An Francisco Field Ollowskins	E 004 00E 0	1 207 725 0	472 400 0	6 444 702 6
11 Ag, Forestry, Fish & Hunting	5,061,865.0	1,207,735.0	172,100.0	6,441,703.0
21 Mining	1,841,911.0	24,216,924.0	3,216,324.0	29,275,158.0
22 Utilities	-	4,104,335.0	3,128,813.0	7,233,148.0
23 Construction	73,139,536.0	3,358,284.0	(98,135.0)	76,399,690.0
31-33 Manufacturing	46,581,730.0	15,461,203.0	8,032,073.0	70,075,005.0
42 Wholesale Trade	40,063,193.0	5,094,633.0	3,519,696.0	48,677,642.0
48-49 Transportation & Warehousing	8,719,843.0	9,365,248.0	4,184,284.0	22,269,377.0
44-45 Retail trade	123,468,407.0	6,795,753.0	14,858,988.0	145,123,141.0
51 Information	12,794.0	8,306,000.0	1,843,077.0	10,281,871.0
52 Finance & insurance	<u>-</u>	4,770,818.0	7,739,197.0	12,510,014.0
53 Real estate & rental	2,304,853.0	16,700,098.0	5,429,172.0	24,434,124.0
54 Professional- scientific & tech svcs	_	13,894,062.0	2,204,479.0	16,098,527.0
55 Management of companies	_	3,653,490.0	219,373.0	3,872,863.0
56 Administrative & waste services	129,832.0	6,321,002.0	1,427,114.0	7,877,949.0
61 Educational svcs	· -	106,239.0	1,253,505.0	1,359,745.0
62 Health & social services	_	6,064.0	20,161,677.0	20,166,540.0
71 Arts- entertainment & recreation	50,209,077.0	2,036,391.0	1,422,852.0	53,668,320.0
72 Accomodation & food services	33,985,476.0	2,880,091.0	8,644,422.0	45,509,989.0
81 Other services	24,736,503.0	2,393,315.0	6,389,004.0	33,518,824.0
92 Government & non NAICs	7,540,480.0	3,659,698.0	22,734,818.0	33,934,994.0
Imports and other non-industry sources	301,407,028.0	-	-	301,407,028.0
Total Angler Expenditures	719,202,530.0	134,451,498.0	116,482,829.0	970,136,854.0
<del></del>	, ,	, ,		499

Industry INCOME impacts STATEWIDE due to RESIDENT angler expenditures.

Direct	Indirect	Induced	Tota
1,534,236.0	302,893.0	41,966.0	1,879,094.0
473,345.0	6,268,065.0	831,778.0	7,573,187.0
-	861,908.0	734,174.0	1,596,080.0
27,861,668.0	1,547,553.0	(26,468.0)	29,382,751.0
3,030,069.0	1,392,258.0	686,497.0	5,108,824.0
15,141,663.0	1,925,533.0	1,330,249.0	18,397,445.0
3,117,416.0	4,302,149.0	1,514,105.0	8,933,670.0
51,214,317.0	2,787,880.0	6,128,468.0	60,130,666.0
3,625.0	2,060,389.0	346,264.0	2,410,277.0
-	1,465,440.0	2,150,906.0	3,616,345.0
1,510,076.0	2,644,189.0	956,485.0	5,110,751.0
-	6,003,809.0	935,325.0	6,939,133.0
-	1,575,853.0	94,621.0	1,670,474.0
41,372.0	2,718,164.0	506,397.0	3,265,932.0
-	47,573.0	583,605.0	631,179.0
-	2,418.0	10,991,058.0	10,993,476.0
15,776,088.0	890,792.0	504,860.0	17,183,741.0
11,476,260.0	1,040,259.0	3,093,127.0	15,609,648.0
8,107,235.0	989,120.0	2,658,665.0	11,755,019.0
6,847,554.0	1,060,243.0	3,278,450.0	11,186,246.0
-	-	_	-
146,122,921.0	39,898,483.0	37,340,533.0	223,373,940.0
	1,534,236.0 473,345.0 27,861,668.0 3,030,069.0 15,141,663.0 3,117,416.0 51,214,317.0 3,625.0 - 1,510,076.0 - 41,372.0 - 15,776,088.0 11,476,260.0 8,107,235.0 6,847,554.0	1,534,236.0 302,893.0 473,345.0 6,268,065.0 861,908.0 27,861,668.0 1,547,553.0 3,030,069.0 1,392,258.0 15,141,663.0 1,925,533.0 3,117,416.0 4,302,149.0 51,214,317.0 2,787,880.0 3,625.0 2,060,389.0 - 1,465,440.0 1,510,076.0 2,644,189.0 6,003,809.0 - 1,575,853.0 41,372.0 2,718,164.0 - 47,573.0 - 2,418.0 15,776,088.0 890,792.0 11,476,260.0 1,040,259.0 8,107,235.0 989,120.0 6,847,554.0 1,060,243.0	1,534,236.0 302,893.0 41,966.0 473,345.0 6,268,065.0 831,778.0 734,174.0 27,861,668.0 1,547,553.0 (26,468.0) 3,030,069.0 1,392,258.0 686,497.0 15,141,663.0 1,925,533.0 1,330,249.0 3,117,416.0 4,302,149.0 1,514,105.0 51,214,317.0 2,787,880.0 6,128,468.0 3,625.0 2,060,389.0 346,264.0 - 1,465,440.0 2,150,906.0 1,510,076.0 2,644,189.0 956,485.0 - 6,003,809.0 935,325.0 - 1,575,853.0 94,621.0 41,372.0 2,718,164.0 506,397.0 - 47,573.0 583,605.0 - 2,418.0 10,991,058.0 15,776,088.0 890,792.0 504,860.0 11,476,260.0 1,040,259.0 3,093,127.0 8,107,235.0 989,120.0 2,658,665.0 6,847,554.0 1,060,243.0 3,278,450.0

Industry EMPLOYMENT impacts STATEWIDE due to RESIDENT angler expenditures.

NAICS Industry Categories	Direct	Indirect	Induced	Total
11 Ag, Forestry, Fish & Hunting	150.8	27.7	2.6	181.1
21 Mining	2.4	32.6	4.3	39.2
22 Utilities	_	8.4	7.6	15.9
23 Construction	413.7	22.9	(0.3)	436.3
31-33 Manufacturing	75.8	31.2	23.4	130.6
42 Wholesale Trade	278.1	35.4	24.4	337.9
48-49 Transportation & Warehousing	57.1	79.6	31.9	168.7
44-45 Retail trade	1,847.4	90.5	198.0	2,136.2
51 Information	· <u>-</u>	43.8	5.6	49.4
52 Finance & insurance	-	25.8	37.3	63.0
53 Real estate & rental	28.5	129.6	44.5	202.6
54 Professional- scientific & tech svcs	-	116.5	24.4	140.8
55 Management of companies	-	20.0	1.2	21.4
56 Administrative & waste services	0.8	93.8	20.6	115.4
61 Educational svcs	-	2.0	25.1	27.1
62 Health & social services	-	-	231.4	231.4
71 Arts- entertainment & recreation	845.4	44.7	25.9	916.0
72 Accomodation & food services	470.0	44.6	136.0	650.4
81 Other services	234.2	31.3	103.2	368.7
92 Government & non NAICs	126.6	22.8	60.1	209.5
Imports and other non-industry sources		-	-	-
Total Angler Expenditures	4,531.1	903.3	1,007.2	6,441.5

Appendix O3.-Industry output, income and employment impacts of nonresident angler spending statewide.

Industry OUTPUT impacts STATEWIDE due to NONRESIDENT angler expenditures.

NAICS Industry Categories	Direct	Indirect	Induced	Tota
11 Ag, Forestry, Fish & Hunting	2,062,085.0	2,688,890.0	308,306.0	5,059,282.0
21 Mining	621,476.0	20,097,381.0	4,754,538.0	25,473,396.0
22 Utilities	-	6,666,491.0	4,684,427.0	11,338,918.0
23 Construction	109,697,616.0	5,635,062.0	(1,130,799.0)	114,201,883.0
31-33 Manufacturing	33,660,216.0	27,444,450.0	14,975,648.0	76,080,313.0
42 Wholesale Trade	18,631,138.0	7,209,573.0	5,222,937.0	31,063,646.0
48-49 Transportation & Warehousing	58,869,864.0	14,615,734.0	7,017,899.0	81,703,498.0
44-45 Retail trade	46,868,698.0	9,358,969.0	21,786,829.0	78,014,496.0
51 Information	6,362.0	11,306,731.0	979,835.0	12,292,929.0
52 Finance & insurance	-	6,987,520.0	12,654,023.0	19,641,543.0
53 Real estate & rental	24,665,002.0	23,498,693.0	6,004,697.0	54,168,390.0
54 Professional- scientific & tech svcs	-	21,786,491.0	1,128,621.0	22,915,111.0
55 Management of companies	-	3,373,242.0	(1,651.0)	3,371,589.0
56 Administrative & waste services	624,833.0	11,805,834.0	1,698,729.0	14,129,396.0
61 Educational svcs	-	121,458.0	1,795,500.0	1,916,957.0
62 Health & social services	-	7,690.0	29,096,210.0	29,103,898.0
71 Arts- entertainment & recreation	138,670,994.0	3,745,459.0	1,298,882.0	143,715,334.0
72 Accomodation & food services	117,985,423.0	5,411,732.0	13,418,977.0	136,816,127.0
81 Other services	2,096,461.0	4,108,148.0	10,699,893.0	17,024,493.0
92 Government & non NAICs	18,657,014.0	6,669,670.0	35,493,978.0	60,820,657.0
Imports and other non-industry sources	74,861,248.0	-	-	74,861,248.0
Total Angler Expenditures	649,178,422.0	192,551,204.0	171,995,478.0	1,013,725,100.0
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Industry INCOME impacts STATEWIDE due to NONRESIDENT angler expenditures.

NAICS Industry Categories	Direct	Indirect	Induced	Tota
11 Ag, Forestry, Fish & Hunting	596,320.0	740,104.0	69,828.0	1,406,370.0
21 Mining	159,710.0	5,200,226.0	1,229,660.0	6,589,597.0
22 Utilities	=	1,410,813.0	1,209,773.0	2,620,585.0
23 Construction	41,810,408.0	2,588,606.0	(472,089.0)	43,914,923.0
31-33 Manufacturing	3,411,183.0	2,228,579.0	1,353,292.0	6,993,054.0
42 Wholesale Trade	7,041,536.0	2,724,818.0	1,973,979.0	11,740,332.0
48-49 Transportation & Warehousing	17,214,953.0	7,529,973.0	2,300,511.0	27,045,435.0
44-45 Retail trade	20,610,691.0	3,839,413.0	8,989,754.0	33,439,854.0
51 Information	1,803.0	2,723,407.0	72,850.0	2,798,061.0
52 Finance & insurance	-	2,137,746.0	3,524,901.0	5,662,648.0
53 Real estate & rental	16,159,837.0	3,786,487.0	1,085,506.0	20,911,831.0
54 Professional- scientific & tech svcs	-	9,563,251.0	424,756.0	9,988,006.0
55 Management of companies	-	1,454,973.0	(712.0)	1,454,261.0
56 Administrative & waste services	199,108.0	4,504,898.0	454,719.0	5,157,526.0
61 Educational svcs	-	54,801.0	836,159.0	890,960.0
62 Health & social services	-	3,048.0	15,742,002.0	15,745,050.0
71 Arts- entertainment & recreation	43,558,568.0	1,686,607.0	338,276.0	45,595,449.0
72 Accomodation & food services	39,370,766.0	1,963,237.0	4,746,249.0	46,080,253.0
81 Other services	838,109.0	1,658,991.0	4,376,452.0	6,873,553.0
92 Government & non NAICs	17,027,972.0	1,935,310.0	7,769,929.0	26,733,212.0
Imports and other non-industry sources	· · ·		· ′ -	
Total Angler Expenditures	208,000,960.0	57,747,401.0	56,133,790.0	321,882,151.0
-	·	•		59%

Industry EMPLOYMENT impacts STATEWIDE due to NONRESIDENT angler expenditures.

NAICS Industry Categories	Direct	Indirect	Induced	Tota
11 Ag, Forestry, Fish & Hunting	54.4	72.2	4.1	131.0
21 Mining	0.8	27.1	6.6	34.4
22 Utilities	-	13.8	13.2	26.8
23 Construction	620.9	38.3	(7.2)	651.8
31-33 Manufacturing	86.7	49.3	45.9	182.0
42 Wholesale Trade	129.3	49.9	36.4	215.6
48-49 Transportation & Warehousing	338.3	139.1	50.0	527.3
44-45 Retail trade	802.2	124.8	290.3	1,217.0
51 Information	_	57.6	(1.6)	56.0
52 Finance & insurance	-	37.7	60.0	97.7
53 Real estate & rental	305.4	185.3	45.1	535.8
54 Professional- scientific & tech svcs	_	182.0	19.3	201.4
55 Management of companies	-	18.6	-	18.5
56 Administrative & waste services	3.9	155.2	22.8	181.9
61 Educational svcs	_	2.1	36.0	38.3
62 Health & social services	<del>-</del>	_	333.8	333.8
71 Arts- entertainment & recreation	2,341.8	86.3	17.5	2,445.8
72 Accomodation & food services	1,584.1	85.6	205.7	1,875.4
81 Other services	24.3	54.0	162.5	240.8
92 Government & non NAICs	257.0	40.1	128.9	425.9
Imports and other non-industry sources		-	-	-
Total Angler Expenditures	6.549.0	1,419.2	1,469.2	9,437.3

Appendix O4.-Industry output, income and employment impacts of all angler spending in the Southeast Region.

Industry OUTPUT impacts in the SOUTHEAST due to RESIDENT & NONRESIDENT angler expenditures.

NAICS Industry Categories	Direct	Indirect	Induced	Total
11 Ag, Forestry, Fish & Hunting	1,525,564.0	1,246,807.0	34,281.0	2,806,654.0
21 Mining	5,675,264.0	459,240.0	61,589.0	6,196,093.0
22 Utilities	=	1,061,323.0	680,170.0	1,741,494.0
23 Construction	53,835,714.0	1,237,009.0	(219,354.0)	54,853,367.0
31-33 Manufacturing	6,613,817.0	1,286,001.0	1,584,997.0	9,484,817.0
42 Wholesale Trade	8,378,827.0	1,165,108.0	806,962.0	10,350,895.0
48-49 Transportation & Warehousing	18,443,836.0	4,618,188.0	1,122,036.0	24,184,059.0
44-45 Retail trade	26,256,166.0	3,496,920.0	6,532,361.0	36,285,448.0
51 Information	3.0	4,296,147.0	78,568.0	4,374,719.0
52 Finance & insurance	-	1,336,949.0	3,119,695.0	4,456,644.0
53 Real estate & rental	2,395,601.0	5,790,835.0	1,629,080.0	9,815,514.0
54 Professional- scientific & tech svcs		4,493,016.0	345,014.0	4,838,029.0
55 Management of companies	-	155,042.0	(5,203.0)	149,839.0
56 Administrative & waste services	207,721.0	3,822,178.0	438,290.0	4,468,189.0
61 Educational svcs	· -	23,345.0	370,523.0	393,864.0
62 Health & social services	-	2,641.0	7,681,198.0	7,683,838.0
71 Arts- entertainment & recreation	47.019.413.0	1,297,649.0	262,261.0	48,579,324.0
72 Accomodation & food services	31,980,866.0	1,632,058.0	4.187.679.0	37,800,601.0
81 Other services	6,948,715.0	1,022,937.0	3,524,794.0	11,496,448.0
92 Government & non NAICs	541,361.0	3,126,815.0	11,632,011.0	15,300,188.0
Imports and other non-industry sources	59,405,121.0	-	· · · -	59,405,121.0
Total Angler Expenditures	269,227,986.0	41,570,201.0	43,866,944.0	354,665,145.0

Industry INCOME impacts in the SOUTHEAST due to RESIDENT & NONRESIDENT angler expenditures.

NAICS Industry Categories	Direct	Indirect	Induced	Total
11 Ag, Forestry, Fish & Hunting	454,501.0	310,271.0	11,190.0	775,960.0
21 Mining	1.163.499.0	98,608.0	13,948.0	1,276,051.0
	1,103,499.0	,	,	392.856.0
22 Utilities	-	238,175.0	154,682.0	,
23 Construction	20,377,697.0	560,882.0	(91,931.0)	20,846,651.0
31-33 Manufacturing	751,367.0	251,188.0	203,434.0	1,205,986.0
42 Wholesale Trade	3,166,449.0	440,307.0	304,959.0	3,911,715.0
48-49 Transportation & Warehousing	4,324,754.0	2,384,902.0	364,420.0	7,074,080.0
44-45 Retail trade	11,011,881.0	1,402,513.0	2,635,259.0	15,049,650.0
51 Information	-	1,005,510.0	(31,644.0)	973,864.0
52 Finance & insurance	-	351,160.0	814,425.0	1,165,583.0
53 Real estate & rental	1,485,989.0	1,025,926.0	312,862.0	2,824,778.0
54 Professional- scientific & tech svcs	-	1,868,046.0	141,897.0	2,009,944.0
55 Management of companies	-	62,010.0	(2,083.0)	59,930.0
56 Administrative & waste services	61,503.0	1,182,248.0	106,762.0	1,350,511.0
61 Educational svcs	-	9,488.0	166,315.0	175,804.0
62 Health & social services	-	998.0	4,164,778.0	4,165,774.0
71 Arts- entertainment & recreation	15,400,653.0	538,968.0	60,289.0	15,999,912.0
72 Accomodation & food services	10,420,290.0	572,449.0	1,431,482.0	12,424,222.0
81 Other services	2,182,558.0	391,580.0	1,318,800.0	3,892,936.0
92 Government & non NAICs	470,867.0	804,819.0	2,289,805.0	3,565,492.0
Imports and other non-industry sources	· -	· -	· · · · -	-
Total Angler Expenditures	71,272,005.0	13,500,039.0	14,369,650.0	99,141,694.0

Industry EMPLOYMENT impacts in the SOUTHEAST due to RESIDENT & NONRESIDENT angler expenditures.

NAICS Industry Categories	Direct	Indirect	Induced	Total
11 Ag, Forestry, Fish & Hunting	53	34	1	88
21 Mining	7	1	-	8
22 Utilities	=	3	2	5
23 Construction	319	9	(1)	327
31-33 Manufacturing	22	8	5	35
42 Wholesale Trade	68	9	7	85
48-49 Transportation & Warehousing	124	55	11	189
44-45 Retail trade	418	47	88	553
51 Information	-	25	(2)	23
52 Finance & insurance	-	7	15	23
53 Real estate & rental	40	44	11	95
54 Professional- scientific & tech svcs	=	41	5	46
55 Management of companies	-	1	(0)	1
56 Administrative & waste services	2	53	6	60
61 Educational svcs	-	0	8	9
62 Health & social services	-	-	88	88
71 Arts- entertainment & recreation	638	27	(0)	665
72 Accomodation & food services	464	28	69	561
81 Other services	79	15	52	146
92 Government & non NAICs	10	13	35	58
Imports and other non-industry sources	-	-	-	-
Total Angler Expenditures	2,243	420	400	3,063

Appendix O5.-Industry output, income and employment impacts of resident angler spending in the Southeast Region.

Industry OUTPUT impacts in the SOUTHEAST REGION due to RESIDENT angler expenditures.

NAICS Industry Categories	Direct	Indirect	Induced	Total
11 Ag, Forestry, Fish & Hunting	1,034,816.0	270,796.0	12,179.0	1,317,792.0
21 Mining	3,145,784.0	189,322.0	22,448.0	3,357,554.0
22 Utilities	-	213,192.0	182,430.0	395,622.0
23 Construction	19,540,190.0	284,567.0	(2,490.0)	19,822,265.0
31-33 Manufacturing	1,831,462.0	329,607.0	262,763.0	2,423,831.0
42 Wholesale Trade	4,081,244.0	333,590.0	206,290.0	4,621,123.0
48-49 Transportation & Warehousing	699,168.0	1,064,685.0	346,559.0	2,110,412.0
44-45 Retail trade	14,553,971.0	1,333,563.0	1,778,984.0	17,666,519.0
51 Information	1.0	1,099,948.0	200,399.0	1,300,349.0
52 Finance & insurance	-	348,803.0	706,306.0	1,055,109.0
53 Real estate & rental	125,956.0	1,392,182.0	547,215.0	2,065,352.0
54 Professional- scientific & tech svcs	-	1,162,454.0	187,606.0	1,350,060.0
55 Management of companies	-	52,775.0	2,363.0	55,138.0
56 Administrative & waste services	-	597,137.0	140,733.0	737,869.0
61 Educational svcs	-	9,621.0	102,937.0	112,555.0
62 Health & social services	-	812.0	2,122,917.0	2,123,728.0
71 Arts- entertainment & recreation	6,265,834.0	211,628.0	155,709.0	6,633,171.0
72 Accomodation & food services	366,628.0	302,541.0	1,063,437.0	1,732,606.0
81 Other services	5,815,587.0	246,072.0	761,135.0	6,822,795.0
92 Government & non NAICs	55,493.0	598,615.0	3,027,072.0	3,681,181.0
Imports and other non-industry sources	38,520,462.0	-	-	38,520,462.0
Total Angler Expenditures	96,036,595.0	10,041,905.0	11,826,987.0	117,905,490.0

Industry INCOME impacts in the SOUTHEAST REGION due to RESIDENT angler expenditures.

NAICS Industry Categories	Direct	Indirect	Induced	Tota
11 Ag, Forestry, Fish & Hunting	308.695.0	67,415.0	3,223.0	379,331.0
21 Mining	644,924.0	39.827.0	5.079.0	689,828.0
22 Utilities	044,924.0	47,589.0	41,224.0	88,813.0
23 Construction	7,266,003.0	128,754.0	709.0	7,395,468.0
31-33 Manufacturing	203.123.0	67,919.0	34,528.0	305,569.0
42 Wholesale Trade	,	,	•	
	1,542,346.0	126,068.0	77,958.0	1,746,373.0
48-49 Transportation & Warehousing	254,209.0	487,887.0	126,840.0	868,938.0
44-45 Retail trade	5,906,985.0	534,853.0	717,391.0	7,159,228.0
51 Information	-	259,277.0	34,757.0	294,034.0
52 Finance & insurance	-	91,162.0	178,172.0	269,333.0
53 Real estate & rental	78,131.0	247,431.0	101,679.0	427,241.0
54 Professional- scientific & tech svcs	-	491,829.0	78,666.0	570,496.0
55 Management of companies	-	21,108.0	945.0	22,053.0
56 Administrative & waste services	-	227,643.0	42,355.0	269,997.0
61 Educational svcs	=	3,897.0	46,176.0	50,073.0
62 Health & social services	-	308.0	1,151,022.0	1,151,329.0
71 Arts- entertainment & recreation	2,052,651.0	85,444.0	55,253.0	2,193,348.0
72 Accomodation & food services	125,000.0	105,823.0	367,570.0	598,394.0
81 Other services	1,852,049.0	98,844.0	300,522.0	2,251,414.0
92 Government & non NAICs	50,553.0	154,240.0	379,954.0	584,748.0
Imports and other non-industry sources	<del>-</del>	-	-	-
Total Angler Expenditures	20.284.669.0	3,287,314.0	3,744,025.0	27,316,007.0

 ${\bf Industry \, EMPLOYMENT \, impacts \, in \, the \, SOUTHEAST \, REGION \, due \, to \, RESIDENT \, angler \, expenditures.}$ 

NAICS Industry Categories	Direct	Indirect	Induced	Total
11 Ag, Forestry, Fish & Hunting	36.2	7.1	0.3	43.5
21 Mining	3.7	0.2	-	4.1
22 Utilities	-	0.6	0.4	1.1
23 Construction	113.9	2.0	0.1	116.0
31-33 Manufacturing	5.8	2.0	1.1	8.9
42 Wholesale Trade	33.4	2.7	1.6	37.7
48-49 Transportation & Warehousing	5.8	12.1	3.5	21.3
44-45 Retail trade	220.6	18.0	24.0	262.5
51 Information	-	6.4	0.7	7.0
52 Finance & insurance	-	1.9	3.4	5.4
53 Real estate & rental	2.1	10.6	4.2	16.6
54 Professional- scientific & tech svcs	-	10.4	2.1	12.6
55 Management of companies	-	0.3	-	0.3
56 Administrative & waste services	-	10.0	2.2	12.3
61 Educational svcs	-	0.2	2.2	2.4
62 Health & social services	-	-	24.3	24.4
71 Arts- entertainment & recreation	85.1	4.2	2.1	91.4
72 Accomodation & food services	6.1	5.1	18.0	29.1
81 Other services	67.1	3.7	12.2	83.1
92 Govemment & non NAICs	2.0	2.6	6.1	10.9
Imports and other non-industry sources	-	-	-	-
Total Angler Expenditures	581.8	100.1	108.6	790.4

Appendix O6.-Industry output, income and employment impacts of nonresident angler spending in the Southeast Region.

Industry OUTPUT impacts in the SOUTHEAST REGION due to NONRESIDENT angler expenditures.

NAICS Industry Categories	Direct	Indirect	Induced	Total
11 Ag, Forestry, Fish & Hunting	490,748.0	976,011.0	22,102.0	1,488,862.0
21 Mining	2,529,480.0	269,918.0	39,141.0	2,838,539.0
22 Utilities	-	848,131.0	497,740.0	1,345,872.0
23 Construction	34,295,524.0	952,442.0	(216,864.0)	35,031,102.0
31-33 Manufacturing	4,782,355.0	956,394.0	1,322,234.0	7,060,986.0
42 Wholesale Trade	4,297,583.0	831,518.0	600,672.0	5,729,772.0
48-49 Transportation & Warehousing	17,744,668.0	3,553,503.0	775,477.0	22,073,647.0
44-45 Retail trade	11,702,195.0	2,163,357.0	4,753,377.0	18,618,929.0
51 Information	2.0	3,196,199.0	(121,831.0)	3,074,370.0
52 Finance & insurance	-	988,146.0	2,413,389.0	3,401,535.0
53 Real estate & rental	2,269,645.0	4,398,653.0	1,081,865.0	7,750,162.0
54 Professional- scientific & tech svcs	-	3,330,562.0	157,408.0	3,487,969.0
55 Management of companies	-	102,267.0	(7,566.0)	94,701.0
56 Administrative & waste services	207,721.0	3,225,041.0	297,557.0	3,730,320.0
61 Educational svcs	-	13,724.0	267,586.0	281,309.0
62 Health & social services	-	1,829.0	5,558,281.0	5,560,110.0
71 Arts- entertainment & recreation	40,753,579.0	1,086,021.0	106,552.0	41,946,153.0
72 Accomodation & food services	31,614,238.0	1,329,517.0	3,124,242.0	36,067,995.0
81 Other services	1,133,128.0	776,865.0	2,763,659.0	4,673,653.0
92 Government & non NAICs	485,868.0	2,528,200.0	8,604,939.0	11,619,007.0
Imports and other non-industry sources	20,884,659.0	-	-	20,884,659.0
Total Angler Expenditures	173,191,391.0	31,528,296.0	32,039,957.0	236,759,645.0

Industry INCOME impacts in the SOUTHEAST REGION due to NONRESIDENT angler expenditures.

NAICS Industry Categories	Direct	Indirect	Induced	Tota
11 Ag, Forestry, Fish & Hunting	145,806.0	242,856.0	7,967.0	396,629.0
21 Mining	518,575.0	58,781.0	8,869.0	586,223.0
22 Utilities	-	190,586.0	113,458.0	304,043.0
23 Construction	13,111,694.0	432,128.0	(92,640.0)	13,451,183.0
31-33 Manufacturing	548,244.0	183,269.0	168,906.0	900,417.0
42 Wholesale Trade	1,624,103.0	314,239.0	227,001.0	2,165,342.0
48-49 Transportation & Warehousing	4,070,545.0	1,897,015.0	237,580.0	6,205,142.0
44-45 Retail trade	5,104,896.0	867,660.0	1,917,868.0	7,890,422.0
51 Information	-	746,233.0	(66,401.0)	679,830.0
52 Finance & insurance	-	259,998.0	636,253.0	896,250.0
53 Real estate & rental	1,407,858.0	778,495.0	211,183.0	2,397,537.0
54 Professional- scientific & tech svcs	-	1,376,217.0	63,231.0	1,439,448.0
55 Management of companies	-	40,902.0	(3,028.0)	37,877.0
56 Administrative & waste services	61,503.0	954,605.0	64,407.0	1,080,514.0
61 Educational svcs	-	5,591.0	120,139.0	125,731.0
62 Health & social services	-	690.0	3,013,756.0	3,014,445.0
71 Arts- entertainment & recreation	13,348,002.0	453,524.0	5,036.0	13,806,564.0
72 Accomodation & food services	10,295,290.0	466,626.0	1,063,912.0	11,825,828.0
81 Other services	330,509.0	292,736.0	1.018.278.0	1,641,522.0
92 Government & non NAICs	420,314.0	650,579.0	1,909,851.0	2,980,744.0
Imports and other non-industry sources	-	-	-	,,
Total Angler Expenditures	50.987.336.0	10,212,725.0	10,625,625.0	71,825,687.0

Industry EMPLOYMENT impacts in the SOUTHEAST REGION due to NONRESIDENT angler expenditures.

NAICS Industry Categories	Direct	Indirect	Induced	Tota
11 Ag, Forestry, Fish & Hunting	17.0	26.8	0.6	44.9
21 Mining	2.9	0.3	-	3.6
22 Utilities	-	2.2	1.3	3.6
23 Construction	205.0	6.6	(1.5)	210.5
31-33 Manufacturing	16.3	5.6	4.2	26.1
42 Wholesale Trade	35.0	6.7	4.9	46.8
48-49 Transportation & Warehousing	118.0	42.7	7.0	167.6
44-45 Retail trade	196.9	29.2	64.2	290.3
51 Information	_	18.7	(2.7)	16.0
52 Finance & insurance	-	5.5	11.8	17.3
53 Real estate & rental	37.8	33.3	7.2	78.3
54 Professional- scientific & tech svcs	-	30.1	3.2	33.1
55 Management of companies	_	0.6	(0.1)	0.5
56 Administrative & waste services	1.5	42.7	3.7	48.0
61 Educational svcs	-	0.2	5.9	6.2
62 Health & social services	_	_	63.7	63.7
71 Arts- entertainment & recreation	553.0	23.1	(2.2)	573.9
72 Accomodation & food services	458.3	22.8	50.7	532.1
81 Other services	11.9	11.6	39.7	63.3
92 Government & non NAICs	7.7	10.7	28.8	47.0
Imports and other non-industry sources	-	-	-	-
Total Angler Expenditures	1,661.6	320.0	290.9	2,272.1

Appendix O7.-Industry output, income and employment impacts of all angler spending in the Southcentral Region.

Industry OUTPUT impacts in the SOUTHCENTRAL due to RESIDENT & NONRESIDENT angler expenditures.

NAICS Industry Categories	Direct	Indirect	Induced	Total
11 Ag, Forestry, Fish & Hunting	4,949,392.0	2,344,818.0	243,212.0	7,537,422.0
21 Mining	3,029,259.0	41,924,266.0	7,898,824.0	52,852,350.0
22 Utilities	-	7,761,321.0	5,643,986.0	13,405,305.0
23 Construction	123,329,496.0	6,642,118.0	(813,937.0)	129,157,672.0
31-33 Manufacturing	61,016,572.0	28,797,806.0	16,752,521.0	106,566,899.0
42 Wholesale Trade	44,205,615.0	8,900,919.0	6,429,914.0	59,536,449.0
48-49 Transportation & Warehousing	42,615,099.0	16,884,774.0	8,578,490.0	68,078,366.0
44-45 Retail trade	128,166,754.0	11,797,762.0	26,910,636.0	166,875,152.0
51 Information	15,083.0	14,299,532.0	2,302,836.0	16,617,451.0
52 Finance & insurance	-	10,286,228.0	16,695,048.0	26,981,275.0
53 Real estate & rental	24,031,699.0	30,207,016.0	8,608,057.0	62,846,770.0
54 Professional- scientific & tech svcs	-	28,721,041.0	3,152,488.0	31,873,531.0
55 Management of companies	-	7,386,996.0	294,627.0	7,681,624.0
56 Administrative & waste services	481,215.0	12,706,071.0	2,365,226.0	15,552,513.0
61 Educational svcs	-	178,348.0	2,375,528.0	2,553,877.0
62 Health & social services	-	10,147.0	36,958,499.0	36,968,645.0
71 Arts- entertainment & recreation	132,915,417.0	4,434,232.0	1,789,222.0	139,138,865.0
72 Accomodation & food services	112,292,126.0	6,068,770.0	16,139,129.0	134,500,028.0
81 Other services	18,021,514.0	5,326,647.0	12,232,163.0	35,580,323.0
92 Government & non NAICs	1,533,501.0	7,276,653.0	42,430,870.0	51,241,021.0
Imports and other non-industry sources	279,096,106.0	-	· -	279,096,106.0
Total Angler Expenditures	975,698,840.0	251,955,452.0	216,987,327.0	1,444,641,644.0

Industry INCOME impacts in the SOUTHCENTRAL due to RESIDENT & NONRESIDENT angler expenditures.

NAICS Industry Categories	Direct	Indirect	Induced	Total
·	·			
11 Ag, Forestry, Fish & Hunting	1,418,369.0	699,529.0	40,394.0	2,158,294.0
21 Mining	779,193.0	10,865,022.0	2,046,869.0	13,691,086.0
22 Utilities	-	1,577,692.0	1,374,202.0	2,951,895.0
23 Construction	46,376,390.0	3,048,663.0	(329,598.0)	49,095,457.0
31-33 Manufacturing	5,103,578.0	2,800,294.0	1,519,200.0	9,423,073.0
42 Wholesale Trade	16,706,953.0	3,363,992.0	2,430,104.0	22,501,048.0
48-49 Transportation & Warehousing	13,511,987.0	8,211,072.0	2,979,477.0	24,702,537.0
44-45 Retail trade	54,131,691.0	4,874,206.0	11,175,942.0	70,181,838.0
51 Information	4,030.0	3,466,835.0	362,545.0	3,833,412.0
52 Finance & insurance	-	3,222,102.0	4,706,099.0	7,928,199.0
53 Real estate & rental	15,748,280.0	4,799,392.0	1,514,907.0	22,062,577.0
54 Professional- scientific & tech svcs	-	12,584,532.0	1,334,295.0	13,918,830.0
55 Management of companies	-	3,188,064.0	127,156.0	3,315,219.0
56 Administrative & waste services	153,200.0	4,967,057.0	737,593.0	5,857,847.0
61 Educational svcs	-	80,037.0	1,105,530.0	1,185,567.0
62 Health & social services	-	4,113.0	20,050,302.0	20,054,413.0
71 Arts- entertainment & recreation	41,559,292.0	1,968,536.0	589,215.0	44,117,045.0
72 Accomodation & food services	36,895,124.0	2,188,489.0	5,692,587.0	44,776,199.0
81 Other services	6,018,604.0	2,161,531.0	5,108,402.0	13,288,539.0
92 Government & non NAICs	1,352,467.0	2,104,588.0	7,963,622.0	11,420,677.0
Imports and other non-industry sources	-	-	-	_
Total Angler Expenditures	239,759,153.0	76,175,738.0	70,528,842.0	386,463,736.0

Industry EMPLOYMENT impacts in the SOUTHCENTRAL due to RESIDENT & NONRESIDENT angler expenditures.

NAICS Industry Categories	Direct	Indirect	Induced	Total
11 Ag, Forestry, Fish & Hunting	145	63	3	211
- · · · · · · · · · · · · · · · · · · ·				
21 Mining	3	49	9	61
22 Utilities	-	17	16	33
23 Construction	695	43	(2)	736
31-33 Manufacturing	133	63	50	245
42 Wholesale Trade	302	61	46	408
48-49 Transportation & Warehousing	197	139	59	395
44-45 Retail trade	1,997	169	348	2,513
51 Information	-	69	30	99
52 Finance & insurance	-	58	73	130
53 Real estate & rental	308	235	77	620
54 Professional- scientific & tech svcs	-	247	40	286
55 Management of companies	-	56	2	58
56 Administrative & waste services	3	169	32	204
61 Educational svcs	-	18	47	65
62 Health & social services	-	0	411	411
71 Arts- entertainment & recreation	2,007	85	63	2,155
72 Accomodation & food services	1,617	99	237	1,952
81 Other services	446	71	206	723
92 Government & non NAICs	41	42	121	205
Imports and other non-industry sources	2	4	16	22
Total Angler Expenditures	7,897	1,755	1,882	11,535

Appendix O8.-Industry output, income and employment impacts of resident angler spending in the Southcentral Region.

Industry OUTPUT impacts in the SOUTHCENTRAL REGION due to RESIDENT angler expenditures.

NAICS Industry Categories	Direct	Indirect	Induced	Total
11 Ag, Forestry, Fish & Hunting	3,643,658.0	725,267.0	91,505.0	4,460,429.0
21 Mining	2,362,453.0	25,018,545.0	3,526,925.0	30,907,923.0
22 Utilities	-	3,317,379.0	2,482,678.0	5,800,055.0
23 Construction	50,895,000.0	2,763,355.0	(102,944.0)	53,555,412.0
31-33 Manufacturing	36,778,389.0	11,778,298.0	6,695,981.0	55,252,668.0
42 Wholesale Trade	31,093,424.0	3,993,573.0	2,851,523.0	37,938,520.0
48-49 Transportation & Warehousing	6,756,724.0	7,383,637.0	3,486,106.0	17,626,467.0
44-45 Retail trade	95,658,753.0	5,061,634.0	12,037,327.0	112,757,716.0
51 Information	10,353.0	6,678,791.0	1,478,592.0	8,167,737.0
52 Finance & insurance	=	4,585,559.0	7,139,437.0	11,724,996.0
53 Real estate & rental	2,144,825.0	13,836,179.0	4,380,198.0	20,361,199.0
54 Professional- scientific & tech svcs	-	12,299,385.0	2,016,667.0	14,316,054.0
55 Management of companies	-	4,094,093.0	250,260.0	4,344,355.0
56 Administrative & waste services	87,862.0	5,042,565.0	1,143,426.0	6,273,854.0
61 Educational svcs	-	88,635.0	1,076,626.0	1,165,261.0
62 Health & social services	=	4,901.0	16,690,992.0	16,695,893.0
71 Arts- entertainment & recreation	42,912,711.0	1,801,993.0	1,031,648.0	45,746,350.0
72 Accomodation & food services	32,014,222.0	2,346,897.0	7,039,335.0	41,400,453.0
81 Other services	17,145,161.0	2,148,763.0	5,194,230.0	24,488,154.0
92 Government & non NAICs	574,584.0	2,911,761.0	18,368,172.0	21,854,518.0
Imports and other non-industry sources	228,495,897.0	-	-	228,495,897.0
Total Angler Expenditures	550,574,016.0	115,881,204.0	96,878,683.0	763,333,906.0

Industry INCOME impacts in the SOUTHCENTRAL REGION due to RESIDENT angler expenditures.

NAICS Industry Categories	Direct	Indirect	Induced	Tota
11 Ag, Forestry, Fish & Hunting	1,071,163.0	208,471.0	17,705.0	1,297,340.0
21 Mining	607,676.0	6,484,043.0	914,030.0	8,005,751.0
22 Utilities	-	674,380.0	572,048.0	1,246,429.0
23 Construction	19,272,022.0	1,271,253.0	(30,178.0)	20,513,101.0
31-33 Manufacturing	2,513,812.0	1,192,536.0	605,109.0	4,311,457.0
42 Wholesale Trade	11,751,366.0	1,509,322.0	1,077,697.0	14,338,385.0
48-49 Transportation & Warehousing	2,423,948.0	3,386,692.0	1,267,681.0	7,078,322.0
44-45 Retail trade	39,843,162.0	2,091,197.0	4,997,894.0	46,932,252.0
51 Information	2,766.0	1,634,518.0	274,507.0	1,911,793.0
52 Finance & insurance	-	1,440,225.0	2,014,367.0	3,454,591.0
53 Real estate & rental	1,405,531.0	2,167,961.0	762,398.0	4,335,890.0
54 Professional- scientific & tech svcs	-	5,331,650.0	870,175.0	6,201,826.0
55 Management of companies	-	1,766,920.0	108,008.0	1,874,927.0
56 Administrative & waste services	27,972.0	2,068,558.0	393,439.0	2,489,968.0
61 Educational svcs	_	39,687.0	500,981.0	540,666.0
62 Health & social services	_	1,992.0	9,054,927.0	9,056,918.0
71 Arts- entertainment & recreation	13,423,962.0	797,494.0	375,386.0	14,596,842.0
72 Accomodation & food services	10,602,088.0	844,355.0	2,499,043.0	13,945,485.0
81 Other services	5,584,602.0	876,901.0	2,193,803.0	8,655,307.0
92 Government & non NAICs	485,163.0	838,533.0	2,719,061.0	4,042,757.0
Imports and other non-industry sources	-	-	-	-
Total Angler Expenditures	109,015,231.0	34,626,686.0	31,188,079.0	174,829,998.0

 ${\bf Industry\,EMPLOYMENT\,impacts\,in\,the\,SOUTHCENTRAL\,REGIOn\,due\,to\,RESIDENT\,angler\,expenditures.}$ 

NAICS Industry Categories	Direct	Indirect	Induced	Total
11 Ag, Forestry, Fish & Hunting	109.5	18.1	1.6	129.1
21 Mining	2.6	29.7	4.3	36.7
22 Utilities	<del>-</del>	7.0	6.8	13.8
23 Construction	288.8	19.0	(0.5)	307.3
31-33 Manufacturing	67.1	26.3	22.2	115.5
42 Wholesale Trade	212.0	27.2	19.4	258.7
48-49 Transportation & Warehousing	43.5	61.5	26.1	131.2
44-45 Retail trade	1,428.5	69.2	163.5	1,661.0
51 Information	-	33.5	4.4	38.0
52 Finance & insurance	<del>-</del>	25.1	34.8	59.7
53 Real estate & rental	27.5	114.5	38.0	180.2
54 Professional- scientific & tech svcs	-	103.6	22.1	125.6
55 Management of companies	-	22.5	1.3	23.8
56 Administrative & waste services	0.5	77.4	17.0	95.1
61 Educational svcs	-	1.6	21.7	23.4
62 Health & social services	<del>-</del>	-	196.8	196.8
71 Arts- entertainment & recreation	749.0	38.1	20.8	807.8
72 Accomodation & food services	453.5	37.3	112.5	603.2
81 Other services	160.9	27.6	88.5	277.0
92 Government & non NAICs	24.8	15.9	44.5	85.3
Imports and other non-industry sources		-	-	-
Total Angler Expenditures	3,568.5	755.3	845.7	5,169.3

Appendix O9.– Industry output, income and employment impacts of nonresident angler spending in the Southcentral Region.

Industry OUTPUT impacts in the SOUTHCENTRAL REGION due to NONRESIDENT angler expenditures.

NAICS Industry Categories	Direct	Indirect	Induced	Total
11 Ag, Forestry, Fish & Hunting	1,305,734.0	1,619,551.0	151,707.0	3,076,993.0
21 Mining	666,806.0	16,905,721.0	4,371,899.0	21,944,427.0
22 Utilities	-	4,443,942.0	3,161,308.0	7,605,250.0
23 Construction	72,434,496.0	3,878,763.0	(710,993.0)	75,602,260.0
31-33 Manufacturing	24,238,183.0	17,019,508.0	10,056,540.0	51,314,231.0
42 Wholesale Trade	13,112,191.0	4,907,346.0	3,578,391.0	21,597,929.0
48-49 Transportation & Warehousing	35,858,375.0	9,501,137.0	5,092,384.0	50,451,899.0
44-45 Retail trade	32,508,001.0	6,736,128.0	14,873,309.0	54,117,436.0
51 Information	4,730.0	7,620,741.0	824,244.0	8,449,714.0
52 Finance & insurance	-	5,700,669.0	9,555,611.0	15,256,279.0
53 Real estate & rental	21,886,874.0	16,370,837.0	4,227,859.0	42,485,571.0
54 Professional- scientific & tech svcs	=	16,421,656.0	1,135,821.0	17,557,477.0
55 Management of companies	-	3,292,903.0	44,367.0	3,337,269.0
56 Administrative & waste services	393,353.0	7,663,506.0	1,221,800.0	9,278,659.0
61 Educational svcs	=	89,713.0	1,298,902.0	1,388,616.0
62 Health & social services	-	5,246.0	20,267,507.0	20,272,752.0
71 Arts- entertainment & recreation	90,002,706.0	2,632,239.0	757,574.0	93,392,515.0
72 Accomodation & food services	80,277,904.0	3,721,873.0	9,099,794.0	93,099,575.0
81 Other services	876,353.0	3,177,884.0	7,037,933.0	11,092,169.0
92 Government & non NAICs	958,917.0	4,364,892.0	24,062,698.0	29,386,503.0
Imports and other non-industry sources	50,600,209.0	-	-	50,600,209.0
Total Angler Expenditures	425,124,824.0	136,074,248.0	120,108,644.0	681,307,718.0

Industry INCOME impacts in the SOUTHCENTRAL REGION due to NONRESIDENT angler expenditures.

NAICS Industry Categories	Direct	Indirect	Induced	Total
11 Ag, Forestry, Fish & Hunting	347,206.0	491,058.0	22,689.0	860,954.0
21 Mining	171,517.0	4,380,979.0	1,132,839.0	5,685,335.0
22 Utilities	-	903,312.0	802,154.0	1,705,466.0
23 Construction	27,104,368.0	1,777,410.0	(299,420.0)	28,582,356.0
31-33 Manufacturing	2,589,766.0	1,607,758.0	914,091.0	5,111,616.0
42 Wholesale Trade	4,955,587.0	1,854,670.0	1,352,407.0	8,162,663.0
48-49 Transportation & Warehousing	11,088,039.0	4,824,380.0	1,711,796.0	17,624,215.0
44-45 Retail trade	14,288,529.0	2,783,009.0	6,178,048.0	23,249,586.0
51 Information	1,264.0	1,832,317.0	88,038.0	1,921,619.0
52 Finance & insurance	-	1,781,877.0	2,691,732.0	4,473,608.0
53 Real estate & rental	14,342,749.0	2,631,431.0	752,509.0	17,726,687.0
54 Professional- scientific & tech svcs	=	7,252,882.0	464,120.0	7,717,004.0
55 Management of companies	-	1,421,144.0	19,148.0	1,440,292.0
56 Administrative & waste services	125,228.0	2,898,499.0	344,154.0	3,367,879.0
61 Educational svcs	=	40,350.0	604,549.0	644,901.0
62 Health & social services	-	2,121.0	10,995,375.0	10,997,495.0
71 Arts- entertainment & recreation	28,135,330.0	1,171,042.0	213,829.0	29,520,203.0
72 Accomodation & food services	26,293,036.0	1,344,134.0	3,193,544.0	30,830,714.0
81 Other services	434,002.0	1,284,630.0	2,914,599.0	4,633,232.0
92 Government & non NAICs	867,304.0	1,266,055.0	5,244,561.0	7,377,920.0
Imports and other non-industry sources	-	-	-	-
Total Angler Expenditures	130,743,922.0	41,549,052.0	39,340,763.0	211,633,738.0

Industry EMPLOYMENT impacts in the SOUTHCENTRAL REGION due to NONRESIDENT angler expenditures.

NAICS Industry Categories	Direct	Indirect	Induced	Total
-				
11 Ag, Forestry, Fish & Hunting	35.4	45.0	1.8	82.2
21 Mining	8.0	19.0	4.8	24.7
22 Utilities	-	9.6	9.4	19.2
23 Construction	406.4	23.5	(1.5)	428.6
31-33 Manufacturing	65.5	36.6	27.4	129.5
42 Wholesale Trade	89.6	33.8	26.2	149.4
48-49 Transportation & Warehousing	153.9	77.5	32.4	263.9
44-45 Retail trade	568.6	99.4	184.0	852.1
51 Information	-	35.6	25.4	61.0
52 Finance & insurance	-	32.6	38.1	70.7
53 Real estate & rental	280.9	120.5	38.6	440.2
54 Professional- scientific & tech svcs	-	143.0	17.9	160.7
55 Management of companies	-	33.6	0.6	34.2
56 Administrative & waste services	2.4	92.0	14.9	109.3
61 Educational svcs	=	16.5	24.9	41.3
62 Health & social services	-	0.2	214.4	214.6
71 Arts- entertainment & recreation	1,258.1	46.9	42.1	1,347.0
72 Accomodation & food services	1,163.4	61.7	124.1	1,349.2
81 Other services	285.1	43.3	117.9	446.1
92 Govemment & non NAICs	16.6	26.1	76.5	119.5
Imports and other non-industry sources	2.4	3.7	15.9	22.1
Total Angler Expenditures	4,328.8	999.6	1,036.7	6,365.4

Appendix O10.– Industry output, income and employment impacts of all angler spending in the Interior Region.

Industry OUTPUT impacts in the INTERIOR due to RESIDENT & NONRESIDENT angler expenditures.

NAICS Industry Categories	Direct	Indirect	Induced	Total
11 Ag, Forestry, Fish & Hunting	255,142.0	214,963.0	46,921.0	517,023.0
21 Mining	25,096.0	457,163.0	40,130.0	522,388.0
22 Utilities	-	697,874.0	272,189.0	970,065.0
23 Construction	5,671,949.0	461,148.0	(125,307.0)	6,007,791.0
31-33 Manufacturing	4,805,839.0	2,858,194.0	695,255.0	8,359,287.0
42 Wholesale Trade	4,608,379.0	382,775.0	269,400.0	5,260,555.0
48-49 Transportation & Warehousing	7,635,924.0	1,587,249.0	364,917.0	9,588,091.0
44-45 Retail trade	14,828,600.0	589,678.0	1,536,696.0	16,954,973.0
51 Information	681.0	1,042,670.0	31,299.0	1,074,649.0
52 Finance & insurance	-	339,356.0	785,273.0	1,124,629.0
53 Real estate & rental	542,552.0	2,177,988.0	370,335.0	3,090,875.0
54 Professional- scientific & tech svcs	-	1,022,345.0	84,870.0	1,107,215.0
55 Management of companies	-	94,827.0	(4,218.0)	90,610.0
56 Administrative & waste services	65,729.0	1,058,748.0	104,082.0	1,228,559.0
61 Educational svcs	-	14,714.0	135,971.0	150,682.0
62 Health & social services	-	743.0	1,978,122.0	1,978,866.0
71 Arts- entertainment & recreation	11,881,623.0	175,416.0	134,723.0	12,191,762.0
72 Accomodation & food services	7,697,909.0	502,361.0	1,028,106.0	9,228,374.0
81 Other services	1,862,734.0	251,682.0	760,273.0	2,874,687.0
92 Govemment & non NAICs	819,403.0	725,918.0	2,846,302.0	4,391,621.0
Imports and other non-industry sources	39,700,851.0	-	-	39,700,851.0
Total Angler Expenditures	100,402,412.0	14,655,805.0	11,355,343.0	126,413,553.0

Industry INCOME impacts in the INTERIOR due to RESIDENT & NONRESIDENT angler expenditures.

NAICS Industry Categories	Direct	Indirect	Induced	Tota
11 Ag, Forestry, Fish & Hunting	78,277.0	34,667.0	9,781.0	122,725.0
21 Mining	6,375.0	116,629.0	10,133.0	133,134.0
22 Utilities	-	159,315.0	60,749.0	220.064.0
23 Construction	2.222.056.0	218,151.0	(57,452.0)	2,382,757.0
31-33 Manufacturing	179,120.0	121,128.0	60,956.0	361,206.0
42 Wholesale Trade	1,742,067.0	144,696.0	101,839.0	1,988,600.0
48-49 Transportation & Warehousing	2.090.713.0	849,469.0	122,792.0	3,062,974.0
44-45 Retail trade	6,258,197.0	237,517.0	625,299.0	7,121,012.0
51 Information	269.0	253,555.0	(3,697.0)	250,128.0
52 Finance & insurance	-	92,847.0	210,099.0	302,945.0
53 Real estate & rental	360,387.0	366,453.0	71,751.0	798,593.0
54 Professional- scientific & tech svcs	· -	422,857.0	29,502.0	452,358.0
55 Management of companies	-	41,226.0	(1,833.0)	39,392.0
56 Administrative & waste services	22,666.0	491,958.0	17,846.0	532,471.0
61 Educational svcs	-	6,913.0	64,427.0	71,337.0
62 Health & social services	-	289.0	1,097,283.0	1,097,576.0
71 Arts- entertainment & recreation	3,610,247.0	90,057.0	24,358.0	3,724,660.0
72 Accomodation & food services	2,725,876.0	186,841.0	375,224.0	3,287,942.0
81 Other services	575,382.0	111,691.0	317,361.0	1,004,432.0
92 Government & non NAICs	674,229.0	228,584.0	706,761.0	1,609,576.0
Imports and other non-industry sources	· -	-	-	-
Total Angler Expenditures	20,545,860.0	4,174,849.0	3,843,173.0	28,563,882.0

Industry EMPLOYMENT impacts in the INTERIOR due to RESIDENT & NONRESIDENT angler expenditures.

NAICS Industry Categories	Direct	Indirect	Induced	Total
11 As Farathy Fish 9 Hunting	6	4	4	4.4
11 Ag, Forestry, Fish & Hunting	0	4	1	11
21 Mining	U	2	U	2
22 Utilities		1	0	2
23 Construction	31	3	(1)	33
31-33 Manufacturing	3	3	1	7
42 Wholesale Trade	34	3	2	39
48-49 Transportation & Warehousing	47	17	3	67
44-45 Retail trade	243	8	21	271
51 Information	-	6	(0)	5
52 Finance & insurance	-	2	4	6
53 Real estate & rental	4	13	2	19
54 Professional- scientific & tech svcs	-	8	2	10
55 Management of companies	-	0	-	0
56 Administrative & waste services	0	12	1	14
61 Educational svcs	-	0	3	3
62 Health & social services	-	-	21	21
71 Arts- entertainment & recreation	220	5	2	227
72 Accomodation & food services	96	7	14	117
81 Other services	15	4	10	28
92 Government & non NAICs	20	7	14	41
Imports and other non-industry sources	-	-	-	-
Total Angler Expenditures	720	105	98	922

Appendix O11.-Industry output, income and employment impacts of resident angler spending in the Interior Region.

Industry OUTPUT impacts in the INTERIOR REGION due to RESIDENT angler expenditures.

NAICS Industry Categories	Direct	Indirect	Induced	Total
11 Ag, Forestry, Fish & Hunting	193,446.0	125,168.0	20,332.0	338,946.0
21 Mining	20,165.0	275,206.0	20,253.0	315,623.0
22 Utilities	-	282,187.0	159,912.0	442,099.0
23 Construction	2,704,345.0	159,513.0	5,460.0	2,869,319.0
31-33 Manufacturing	3,726,561.0	1,069,318.0	254,579.0	5,050,457.0
42 Wholesale Trade	3,764,875.0	181,442.0	114,754.0	4,061,071.0
48-49 Transportation & Warehousing	1,210,610.0	600,640.0	171,625.0	1,982,874.0
44-45 Retail trade	12,292,908.0	294,470.0	690,959.0	13,278,337.0
51 Information	612.0	487,808.0	102,076.0	590,496.0
52 Finance & insurance	-	150,302.0	246,531.0	396,832.0
53 Real estate & rental	34,072.0	982,537.0	270,945.0	1,287,553.0
54 Professional- scientific & tech svcs	-	391,594.0	80,983.0	472,577.0
55 Management of companies	-	59,415.0	2,448.0	61,863.0
56 Administrative & waste services	41,970.0	391,571.0	67,000.0	500,543.0
61 Educational svcs	-	7,103.0	64,132.0	71,235.0
62 Health & social services	-	312.0	920,819.0	921,131.0
71 Arts- entertainment & recreation	1,401,355.0	47,995.0	76,053.0	1,525,405.0
72 Accomodation & food services	1,604,627.0	198,734.0	421,918.0	2,225,279.0
81 Other services	1,775,756.0	103,177.0	245,113.0	2,124,046.0
92 Government & non NAICs	197,056.0	259,796.0	1,161,288.0	1,618,139.0
Imports and other non-industry sources	35,888,492.0	-	-	35,888,492.0
Total Angler Expenditures	64,856,852.0	6,068,286.0	5,097,184.0	76,022,320.0

Industry INCOME impacts in the INTERIOR REGION due to RESIDENT angler expenditures.

NAICS Industry Categories	Direct	Indirect	Induced	Total
11 Ag, Forestry, Fish & Hunting	59,452.0	18,817.0	4,347.0	82,616.0
21 Mining	5,123.0	70,288.0	5,094.0	80,504.0
22 Utilities	-	63,480.0	36,541.0	100,021.0
23 Construction	1,067,198.0	75,846.0	3,087.0	1,146,130.0
31-33 Manufacturing	132,388.0	50,283.0	15,187.0	197,860.0
42 Wholesale Trade	1,423,204.0	68,588.0	43,379.0	1,535,171.0
48-49 Transportation & Warehousing	422,600.0	281,420.0	67,280.0	771,301.0
44-45 Retail trade	5,088,832.0	118,609.0	280,733.0	5,488,175.0
51 Information	242.0	119,624.0	20,363.0	140,229.0
52 Finance & insurance	-	41,009.0	64,893.0	105,902.0
53 Real estate & rental	22,632.0	165,362.0	49,789.0	237,784.0
54 Professional- scientific & tech svcs	-	157,375.0	33,388.0	190,763.0
55 Management of companies	-	25,831.0	1,065.0	26,895.0
56 Administrative & waste services	14,473.0	207,952.0	29,912.0	252,337.0
61 Educational svcs	-	3,327.0	30,380.0	33,706.0
62 Health & social services	-	124.0	510,766.0	510,891.0
71 Arts- entertainment & recreation	425,804.0	22,827.0	24,293.0	472,923.0
72 Accomodation & food services	584,096.0	73,617.0	156,531.0	814,244.0
81 Other services	530,043.0	47,919.0	111,034.0	688,995.0
92 Government & non NAICs	164,688.0	82,044.0	140,524.0	387,257.0
Imports and other non-industry sources	-	-	-	-
Total Angler Expenditures	9,940,774.0	1,694,346.0	1,628,586.0	13,263,707.0

Industry EMPLOYMENT impacts in the INTERIOR REGION due to RESIDENT angler expenditures.

NAICS Industry Categories	Direct	Indirect	Induced	Total
11 Ag, Forestry, Fish & Hunting	4.5	2.5	0.3	7.3
21 Mining	0.1	1.3	0.1	1.5
22 Utilities	-	0.6	0.3	0.8
23 Construction	14.8	1.1	-	15.8
31-33 Manufacturing	2.3	1.1	0.2	3.7
42 Wholesale Trade	27.8	1.5	0.9	30.0
48-49 Transportation & Warehousing	7.6	5.5	1.4	14.4
44-45 Retail trade	184.1	4.0	9.1	197.3
51 Information	-	2.6	0.3	3.0
52 Finance & insurance	-	0.7	1.2	2.1
53 Real estate & rental	0.3	5.8	1.7	7.8
54 Professional- scientific & tech svcs	-	3.2	0.9	4.1
55 Management of companies	-	0.3	-	0.3
56 Administrative & waste services	0.2	4.8	0.9	5.9
61 Educational svcs	-	0.1	1.2	1.4
62 Health & social services	-	-	9.6	9.6
71 Arts- entertainment & recreation	25.9	1.3	1.4	28.7
72 Accomodation & food services	22.3	2.7	6.2	31.3
81 Other services	13.3	1.5	3.7	18.5
92 Government & non NAICs	9.1	2.4	3.6	15.1
Imports and other non-industry sources	-	-	-	-
Total Angler Expenditures	312.6	42.7	43.5	398.7

Appendix O12.—Industry output, income and employment impacts of nonresident angler spending in the Interior Region.

Industry OUTPUT impacts in the INTERIOR REGION due to NONRESIDENT angler expenditures.

NAICS Industry Categories	Direct	Indirect	Induced	Total
11 Ag, Forestry, Fish & Hunting	61,696.0	89,795.0	26,589.0	178,077.0
21 Mining	4,931.0	181,957.0	19,877.0	206,765.0
22 Utilities	-	415,687.0	112,277.0	527,966.0
23 Construction	2,967,604.0	301,635.0	(130,767.0)	3,138,472.0
31-33 Manufacturing	1,079,278.0	1,788,876.0	440,676.0	3,308,830.0
42 Wholesale Trade	843,504.0	201,333.0	154,646.0	1,199,484.0
48-49 Transportation & Warehousing	6,425,314.0	986,609.0	193,292.0	7,605,217.0
44-45 Retail trade	2,535,692.0	295,208.0	845,737.0	3,676,636.0
51 Information	69.0	554,862.0	(70,777.0)	484,153.0
52 Finance & insurance	-	189,054.0	538,742.0	727,797.0
53 Real estate & rental	508,480.0	1,195,451.0	99,390.0	1,803,322.0
54 Professional- scientific & tech svcs	-	630,751.0	3,887.0	634,638.0
55 Management of companies	-	35,412.0	(6,666.0)	28,747.0
56 Administrative & waste services	23,759.0	667,177.0	37,082.0	728,016.0
61 Educational svcs	-	7,611.0	71,839.0	79,447.0
62 Health & social services	-	431.0	1,057,303.0	1,057,735.0
71 Arts- entertainment & recreation	10,480,268.0	127,421.0	58,670.0	10,666,357.0
72 Accomodation & food services	6,093,282.0	303,627.0	606,188.0	7,003,095.0
81 Other services	86,978.0	148,505.0	515,160.0	750,641.0
92 Government & non NAICs	622,347.0	466,122.0	1,685,014.0	2,773,482.0
Imports and other non-industry sources	3,812,359.0	-	· -	3,812,359.0
Total Angler Expenditures	35,545,560.0	8,587,519.0	6,258,159.0	50,391,238.0

Industry INCOME impacts in the INTERIOR REGION due to NONRESIDENT angler expenditures.

NAICS Industry Categories	Direct	Indirect	Induced	Tota
11 Ag, Forestry, Fish & Hunting	18,825.0	15,850.0	5,434.0	40,109.0
21 Mining	1,252.0	46,341.0	5,039.0	52,630.0
22 Utilities	1,232.0	95,835.0	24,208.0	120,043.0
23 Construction	1.154.858.0	142,305.0	(60.539.0)	1,236,627.0
23 Constituction 31-33 Manufacturing	46,732.0	70,845.0	45,769.0	163,346.0
•	,			,
42 Wholesale Trade	318,863.0	76,108.0	58,460.0	453,429.0
48-49 Transportation & Warehousing	1,668,113.0	568,049.0	55,512.0	2,291,673.0
44-45 Retail trade	1,169,365.0	118,908.0	344,566.0	1,632,837.0
51 Information	27.0	133,931.0	(24,060.0)	109,899.0
52 Finance & insurance	-	51,838.0	145,206.0	197,043.0
53 Real estate & rental	337,755.0	201,091.0	21,962.0	560,809.0
54 Professional- scientific & tech svcs	-	265,482.0	(3,886.0)	261,595.0
55 Management of companies	-	15,395.0	(2,898.0)	12,497.0
56 Administrative & waste services	8,193.0	284,006.0	(12,066.0)	280,134.0
61 Educational svcs	- ·	3,586.0	34,047.0	37,631.0
62 Health & social services	-	165.0	586,517.0	586,685.0
71 Arts- entertainment & recreation	3,184,443.0	67,230.0	65.0	3,251,737.0
72 Accomodation & food services	2,141,780.0	113,224.0	218,693.0	2,473,698.0
81 Other services	45,339.0	63,772.0	206,327.0	315,437.0
92 Government & non NAICs	509,541.0	146,540.0	566,237.0	1,222,319.0
Imports and other non-industry sources	-	-	,	- ,,
Total Angler Expenditures	10,605,086.0	2,480,503.0	2,214,587.0	15,300,175.0

Industry EMPLOYMENT impacts in the INTERIOR REGION due to NONRESIDENT angler expenditures.

NAICS Industry Categories	Direct	Indirect	Induced	Total
•				
11 Ag, Forestry, Fish & Hunting	1.5	1.8	0.2	3.5
21 Mining	-	0.8	-	0.9
22 Utilities	-	0.8	0.1	1.0
23 Construction	16.0	1.8	(8.0)	17.1
31-33 Manufacturing	0.8	1.4	0.5	3.0
42 Wholesale Trade	6.3	1.4	1.1	8.9
48-49 Transportation & Warehousing	39.5	11.8	1.2	52.6
44-45 Retail trade	58.5	3.9	11.4	73.8
51 Information	-	2.9	(0.7)	2.2
52 Finance & insurance	-	1.0	2.7	3.7
53 Real estate & rental	3.9	7.0	0.4	11.4
54 Professional- scientific & tech svcs	-	5.1	0.6	5.7
55 Management of companies	-	-	-	0.1
56 Administrative & waste services	0.2	7.6	0.4	8.1
61 Educational svcs	-	-	1.4	1.5
62 Health & social services	-	-	11.2	11.2
71 Arts- entertainment & recreation	194.1	3.5	0.3	198.0
72 Accomodation & food services	73.6	4.5	8.0	86.1
81 Other services	1.3	2.0	6.2	9.3
92 Government & non NAICs	10.8	4.1	10.6	25.4
Imports and other non-industry sources	-	-	-	-
Total Angler Expenditures	407.0	62.0	54.9	523.7

Appendix O13.—Industry output, income and employment impacts of all angler spending in the Cook Inlet Subregion.

Industry OUTPUT impacts in the COOK INLET due to RESIDENT & NONRESIDENT angler expenditures.

NAICS Industry Categories	Direct	Indirect	Induced	Total
11 Ag, Forestry, Fish & Hunting	3,288,164.0	4,858,117.0	277,802.0	8,424,083.0
21 Mining	2,576,844.0	27,495,718.0	5,729,755.0	35,802,315.0
22 Utilities	_	4,770,585.0	3,932,142.0	8,702,726.0
23 Construction	114,770,704.0	4,716,693.0	(144,341.0)	119,343,061.0
31-33 Manufacturing	43,410,815.0	20,116,177.0	10,887,526.0	74,414,513.0
42 Wholesale Trade	31,697,630.0	6,676,467.0	4,643,233.0	43,017,331.0
48-49 Transportation & Warehousing	22,546,700.0	12,055,966.0	5,949,502.0	40,552,167.0
44-45 Retail trade	102,637,883.0	10,208,222.0	19,371,117.0	132,217,222.0
51 Information	12,751.0	9,774,171.0	2,407,578.0	12,194,500.0
52 Finance & insurance	_	7,651,937.0	12,230,398.0	19,882,334.0
53 Real estate & rental	19,616,057.0	20,233,717.0	7,101,770.0	46,951,542.0
54 Professional- scientific & tech svcs	-	21,066,179.0	3,421,866.0	24,488,045.0
55 Management of companies	-	7,620,081.0	581,664.0	8,201,745.0
56 Administrative & waste services	224,544.0	8,276,231.0	1,913,789.0	10,414,565.0
61 Educational svcs	-	123,971.0	1,747,151.0	1,871,125.0
62 Health & social services	-	6,626.0	27,104,067.0	27,110,694.0
71 Arts- entertainment & recreation	69,950,914.0	2,849,640.0	1,777,009.0	74,577,564.0
72 Accomodation & food services	61,528,255.0	4,036,895.0	11,371,240.0	76,936,385.0
81 Other services	15,309,059.0	3,611,460.0	8,267,974.0	27,188,491.0
92 Government & non NAICs	850,636.0	4,827,347.0	29,921,476.0	35,599,457.0
Imports and other non-industry sources	234,069,478.0			234,069,478.0
Total Angler Expenditures	722,490,422.0	180,976,189.0	158,492,705.0	1,061,959,343.0

Industry INCOME impacts in the COOK INLET due to RESIDENT & NONRESIDENT angler expenditures.

NAICS Industry Categories	Direct	Indirect	Induced	Total
11 Ag, Forestry, Fish & Hunting	789,891.0	1,294,488.0	55,147.0	2,139,528.0
21 Mining	663,134.0	7,129,746.0	1,485,475.0	9,278,355.0
22 Utilities	-	961,241.0	912,616.0	1,873,858.0
23 Construction	42,920,299.0	2,167,578.0	(33,773.0)	45,054,105.0
31-33 Manufacturing	3,419,497.0	2,189,153.0	1,016,982.0	6,625,630.0
42 Wholesale Trade	11,979,708.0	2,523,285.0	1,754,851.0	16,257,841.0
48-49 Transportation & Warehousing	7,423,558.0	5,766,099.0	2,171,665.0	15,361,323.0
44-45 Retail trade	43,606,590.0	4,248,271.0	8,094,554.0	55,949,413.0
51 Information	3,410.0	2,380,919.0	447,001.0	2,831,330.0
52 Finance & insurance	· <u>-</u>	2,414,196.0	3,493,747.0	5,907,945.0
53 Real estate & rental	12,861,398.0	3,212,709.0	1,228,973.0	17,303,079.0
54 Professional- scientific & tech svcs	· -	9,327,326.0	1,484,129.0	10,811,459.0
55 Management of companies	_	3,292,217.0	251,307.0	3,543,521.0
56 Administrative & waste services	72.009.0	3,290,782.0	654,382.0	4,017,172.0
61 Educational svcs	· -	55,817.0	821,104.0	876,921.0
62 Health & social services	_	2,695.0	14,708,781.0	14,711,475.0
71 Arts- entertainment & recreation	21,929,683.0	1,243,692.0	653,255.0	23,826,630.0
72 Accomodation & food services	20,305,919.0	1,458,065.0	4.047.510.0	25,811,493.0
81 Other services	4,796,499.0	1,504,274.0	3,538,392.0	9,839,165.0
92 Government & non NAICs	742,131.0	1,400,004.0	4,612,179.0	6,754,313.0
Imports and other non-industry sources	-	-,,	-,,	-,,
Total Angler Expenditures	171,513,722.0	55,862,553.0	51,398,277.0	278,774,551.0

Industry EMPLOYMENT impacts in the COOK INLET due to RESIDENT & NONRESIDENT angler expenditures.

NAICS Industry Categories	Direct	Indirect	Induced	Total
11 Ag, Forestry, Fish & Hunting	100	165	7	272
21 Mining	3	32	7	42
22 Utilities	-	9	12	21
23 Construction	645	32	(1)	677
31-33 Manufacturing	103	50	37	190
42 Wholesale Trade	217	46	32	295
48-49 Transportation & Warehousing	122	104	44	270
44-45 Retail trade	1,592	143	268	2,002
51 Information	-	48	7	55
52 Finance & insurance	-	42	60	102
53 Real estate & rental	252	172	63	486
54 Professional- scientific & tech svcs	-	178	37	215
55 Management of companies	-	42	3	45
56 Administrative & waste services	1	123	29	153
61 Educational svcs	-	2	34	37
62 Health & social services	-	-	320	320
71 Arts- entertainment & recreation	1,214	59	36	1,309
72 Accomodation & food services	868	65	181	1,114
81 Other services	136	47	141	324
92 Government & non NAICs	30	26	72	128
Imports and other non-industry sources	-	-	-	-
Total Angler Expenditures	5,282	1,385	1,390	8,056

Appendix O14.-Industry output, income and employment impacts of resident angler spending in the Cook Inlet Subregion.

Industry OUTPUT impacts in the COOK INLET REGION due to RESIDENT angler expenditures.

NAICS Industry Categories	Direct	Indirect	Induced	Total
11 Ag, Forestry, Fish & Hunting	2,300,875.0	1,391,097.0	128,657.0	3,820,629.0
21 Mining	2,026,783.0	17,201,578.0	2,785,053.0	22,013,413.0
22 Utilities	-	2,356,037.0	1,891,498.0	4,247,535.0
23 Construction	42,932,360.0	2,128,579.0	62,045.0	45,122,983.0
31-33 Manufacturing	26,601,094.0	8,902,465.0	4,888,132.0	40,391,691.0
42 Wholesale Trade	22,661,983.0	3,105,450.0	2,253,449.0	28,020,883.0
48-49 Transportation & Warehousing	5,307,787.0	5,766,187.0	2,791,868.0	13,865,842.0
44-45 Retail trade	79,254,015.0	4,291,979.0	9,428,979.0	92,974,973.0
51 Information	9,341.0	5,179,732.0	1,397,959.0	6,587,031.0
52 Finance & insurance	-	3,762,080.0	5,820,422.0	9,582,502.0
53 Real estate & rental	1,478,511.0	10,552,771.0	3,731,765.0	15,763,047.0
54 Professional- scientific & tech svcs	-	9,888,606.0	1,997,999.0	11,886,605.0
55 Management of companies	-	4,614,707.0	370,156.0	4,984,862.0
56 Administrative & waste services	60,029.0	3,849,492.0	989,556.0	4,899,078.0
61 Educational svcs	-	66,409.0	856,233.0	922,644.0
62 Health & social services	-	3,530.0	13,252,382.0	13,255,913.0
71 Arts- entertainment & recreation	25,921,676.0	1,326,126.0	977,902.0	28,225,708.0
72 Accomodation & food services	22,258,888.0	1,803,688.0	5,438,006.0	29,500,582.0
81 Other services	14,732,267.0	1,632,532.0	3,845,812.0	20,210,608.0
92 Government & non NAICs	459,870.0	2,263,153.0	14,288,070.0	17,011,092.0
Imports and other non-industry sources	203,065,693.0	-	-	203,065,693.0
Total Angler Expenditures	449,071,170.0	90,086,196.0	77,195,939.0	616,353,308.0

Industry INCOME impacts in the COOK INLET REGION due to RESIDENT angler expenditures.

NAICS Industry Categories	Direct	Indirect	Induced	Tota
11 Ag, Forestry, Fish & Hunting	562,480.0	363,014.0	26,654.0	952,151.0
21 Mining	521,580.0	4,460,780.0	722,081.0	5,704,439.0
22 Utilities	-	475,738.0	422,710.0	898,449.0
23 Construction	16,072,939.0	982,370.0	43,018.0	17,098,327.0
31-33 Manufacturing	1,910,414.0	977,502.0	455,190.0	3,343,106.0
42 Wholesale Trade	8,564,803.0	1,173,664.0	851,663.0	10,590,128.0
48-49 Transportation & Warehousing	1,920,839.0	2,670,879.0	1,047,111.0	5,638,829.0
44-45 Retail trade	33,267,114.0	1,786,158.0	3,939,719.0	38,992,988.0
51 Information	2,498.0	1,274,801.0	274,643.0	1,551,941.0
52 Finance & insurance	-	1,192,825.0	1,665,602.0	2,858,427.0
53 Real estate & rental	969,396.0	1,654,528.0	642,044.0	3,265,969.0
54 Professional- scientific & tech svcs	-	4,320,027.0	871,741.0	5,191,769.0
55 Management of companies	-	1,993,760.0	159,925.0	2,153,684.0
56 Administrative & waste services	19,251.0	1,578,347.0	355,257.0	1,952,854.0
61 Educational svcs	· -	29,881.0	402,363.0	432,243.0
62 Health & social services	-	1,440.0	7,191,734.0	7,193,175.0
71 Arts- entertainment & recreation	8,131,713.0	578,641.0	371,866.0	9,082,219.0
72 Accomodation & food services	7,398,853.0	650,485.0	1,944,118.0	9,993,453.0
81 Other services	4,510,987.0	681,762.0	1,663,007.0	6,855,755.0
92 Government & non NAICs	386,798.0	651,002.0	1,862,429.0	2,900,229.0
Imports and other non-industry sources	· -	· -	· · · · ·	-
Total Angler Expenditures	84,239,661.0	27,497,601.0	24,912,874.0	136,650,135.0

Industry EMPLOYMENT impacts in the COOK INLET REGION due to RESIDENT angler expenditures.

NAICS Industry Categories	Direct	Indirect	Induced	Tota
11 Ag, Forestry, Fish & Hunting	71.7	45.9	3.3	121.0
21 Mining	2.3	20.3	3.3	26.0
22 Utilities	2.3			
	-	4.6	5.3	9.8
23 Construction	241.4	14.6	0.6	256.8
31-33 Manufacturing	55.0	21.7	16.6	93.5
42 Wholesale Trade	155.1	21.3	15.5	191.8
48-49 Transportation & Warehousing	34.6	48.3	21.3	104.3
44-45 Retail trade	1,206.1	59.9	130.8	1,396.7
51 Information	-	25.9	4.6	30.7
52 Finance & insurance	-	20.6	28.6	49.2
53 Real estate & rental	18.9	89.2	33.4	141.7
54 Professional- scientific & tech svcs	-	83.8	20.8	104.4
55 Management of companies	-	25.3	2.1	27.4
56 Administrative & waste services	0.4	59.7	15.0	75.1
61 Educational svcs	_	1.3	16.9	18.1
62 Health & social services	_	-	156.5	156.5
71 Arts- entertainment & recreation	447.1	27.2	19.8	494.3
72 Accomodation & food services	317.9	28.7	87.3	433.9
81 Other services	128.2	21.1	67.4	216.7
92 Government & non NAICs	20.1	12.0	30.4	62.6
Imports and other non-industry sources	_	-	_	_
Total Angler Expenditures	2,698.8	632.0	679.4	4,010.3

Appendix O15.–Industry output, income and employment impacts of nonresident angler spending in the Cook Inlet Subregion.

Industry OUTPUT impacts in the COOK INLET REGION due to NONRESIDENT angler expenditures.

NAICS Industry Categories	Direct	Indirect	Induced	Total
11 Ag, Forestry, Fish & Hunting	987,289.0	3,467,020.0	149,145.0	4,603,454.0
21 Mining	550,061.0	10,294,140.0	2,944,702.0	13,788,902.0
22 Utilities	-	2,414,548.0	2,040,644.0	4,455,191.0
23 Construction	71,838,344.0	2,588,114.0	(206,386.0)	74,220,078.0
31-33 Manufacturing	16,809,721.0	11,213,712.0	5,999,394.0	34,022,822.0
42 Wholesale Trade	9,035,647.0	3,571,017.0	2,389,784.0	14,996,448.0
48-49 Transportation & Warehousing	17,238,913.0	6,289,779.0	3,157,634.0	26,686,325.0
44-45 Retail trade	23,383,868.0	5,916,243.0	9,942,138.0	39,242,249.0
51 Information	3,410.0	4,594,439.0	1,009,619.0	5,607,469.0
52 Finance & insurance	-	3,889,857.0	6,409,976.0	10,299,832.0
53 Real estate & rental	18,137,546.0	9,680,946.0	3,370,005.0	31,188,495.0
54 Professional- scientific & tech svcs	-	11,177,573.0	1,423,867.0	12,601,440.0
55 Management of companies	-	3,005,374.0	211,508.0	3,216,883.0
56 Administrative & waste services	164,515.0	4,426,739.0	924,233.0	5,515,487.0
61 Educational svcs	-	57,562.0	890,918.0	948,481.0
62 Health & social services	-	3,096.0	13,851,685.0	13,854,781.0
71 Arts- entertainment & recreation	44,029,238.0	1,523,514.0	799,107.0	46,351,856.0
72 Accomodation & food services	39,269,367.0	2,233,207.0	5,933,234.0	47,435,803.0
81 Other services	576,792.0	1,978,928.0	4,422,162.0	6,977,883.0
92 Government & non NAICs	390,766.0	2,564,194.0	15,633,406.0	18,588,365.0
Imports and other non-industry sources	31,003,785.0	-	-	31,003,785.0
Total Angler Expenditures	273,419,252.0	90,889,993.0	81,296,766.0	445,606,014.0

Industry INCOME impacts in the COOK INLET REGION due to NONRESIDENT angler expenditures.

NAICS Industry Categories	Direct	Indirect	Induced	Tota
11 Ag, Forestry, Fish & Hunting	227,411.0	931,474.0	28,493.0	1,187,377.0
21 Mining	141,554.0	2,668,966.0	763,394.0	3,573,916.0
22 Utilities	-	485,503.0	489,906.0	975,409.0
23 Construction	26,847,360.0	1,185,208.0	(76,791.0)	27,955,778.0
31-33 Manufacturing	1,509,083.0	1,211,651.0	561,792.0	3,282,524.0
42 Wholesale Trade	3,414,905.0	1,349,621.0	903,188.0	5,667,713.0
48-49 Transportation & Warehousing	5,502,719.0	3,095,220.0	1,124,554.0	9,722,494.0
44-45 Retail trade	10,339,476.0	2,462,113.0	4,154,835.0	16,956,425.0
51 Information	912.0	1,106,118.0	172,358.0	1,279,389.0
52 Finance & insurance	-	1,221,371.0	1,828,145.0	3,049,518.0
53 Real estate & rental	11,892,002.0	1,558,181.0	586,929.0	14,037,110.0
54 Professional- scientific & tech svcs	-	5,007,299.0	612,388.0	5,619,690.0
55 Management of companies	-	1,298,457.0	91,382.0	1,389,837.0
56 Administrative & waste services	52,758.0	1,712,435.0	299,125.0	2,064,318.0
61 Educational svcs	-	25,936.0	418,741.0	444,678.0
62 Health & social services	-	1,255.0	7,517,047.0	7,518,300.0
71 Arts- entertainment & recreation	13,797,970.0	665,051.0	281,389.0	14,744,411.0
72 Accomodation & food services	12,907,066.0	807,580.0	2,103,392.0	15,818,040.0
81 Other services	285,512.0	822,512.0	1,875,385.0	2,983,410.0
92 Government & non NAICs	355,333.0	749,002.0	2,749,750.0	3,854,084.0
Imports and other non-industry sources	-	-	-	-
Total Angler Expenditures	87,274,061.0	28,364,952.0	26,485,403.0	142,124,416.0

Industry EMPLOYMENT impacts in the COOK INLET REGION due to NONRESIDENT angler expenditures.

NAICS Industry Categories	Direct	Indirect	Induced	Tota
11 Ag, Forestry, Fish & Hunting	28.7	119.1	3.7	151.3
21 Mining	0.7	12.1	3.6	16.3
22 Utilities	-	4.7	6.5	11.2
23 Construction	403.2	17.6	(1.2)	419.8
31-33 Manufacturing	48.0	28.2	20.5	96.7
42 Wholesale Trade	61.8	24.4	16.4	102.7
48-49 Transportation & Warehousing	87.0	55.4	23.1	165.7
44-45 Retail trade	385.4	82.6	137.6	605.6
51 Information	-	22.1	2.4	24.5
52 Finance & insurance	-	21.5	31.1	52.5
53 Real estate & rental	232.6	82.3	29.1	344.1
54 Professional- scientific & tech svcs	-	93.8	16.1	110.2
55 Management of companies	-	16.5	1.1	17.6
56 Administrative & waste services	1.0	63.3	13.5	77.8
61 Educational svcs	-	1.0	17.4	18.7
62 Health & social services	-		163.7	163.8
71 Arts- entertainment & recreation	766.9	32.0	15.7	814.5
72 Accomodation & food services	550.0	35.8	94.0	679.9
81 Other services	7.9	25.6	73.9	107.5
92 Government & non NAICs	9.6	14.0	41.4	65.0
Imports and other non-industry sources	-	-	-	-
Total Angler Expenditures	2,583.3	752.5	710.2	4,045.6