

Fishery Data Series No. 21-03

**Estimates of Participation, Catch, and Harvest in
Alaska Sport Fisheries During 2017**

by

William J. Romberg

Kathrin Sundet

Mike Martz

and

Ian Rafferty

March 2021

Alaska Department of Fish and Game

Divisions of Sport Fish and Commercial Fisheries



Symbols and Abbreviations

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

Weights and measures (metric)		General		Mathematics, statistics	
centimeter	cm	Alaska Administrative Code	AAC	<i>all standard mathematical signs, symbols and abbreviations</i>	
deciliter	dL	all commonly accepted abbreviations	e.g., Mr., Mrs., AM, PM, etc.	alternate hypothesis	H_A
gram	g	all commonly accepted professional titles	e.g., Dr., Ph.D., R.N., etc.	base of natural logarithm	e
hectare	ha	at	@	catch per unit effort	CPUE
kilogram	kg	compass directions:		coefficient of variation	CV
kilometer	km	east	E	common test statistics	(F, t, χ^2 , etc.)
liter	L	north	N	confidence interval	CI
meter	m	south	S	correlation coefficient (multiple)	R
milliliter	mL	west	W	correlation coefficient (simple)	r
millimeter	mm	copyright	©	covariance	cov
		corporate suffixes:		degree (angular)	°
Weights and measures (English)		Company	Co.	degrees of freedom	df
cubic feet per second	ft ³ /s	Corporation	Corp.	expected value	E
foot	ft	Incorporated	Inc.	greater than	>
gallon	gal	Limited	Ltd.	greater than or equal to	≥
inch	in	District of Columbia	D.C.	harvest per unit effort	HPUE
mile	mi	et alii (and others)	et al.	less than	<
nautical mile	nmi	et cetera (and so forth)	etc.	less than or equal to	≤
ounce	oz	exempli gratia (for example)	e.g.	logarithm (natural)	ln
pound	lb	Federal Information Code	FIC	logarithm (base 10)	log
quart	qt	id est (that is)	i.e.	logarithm (specify base)	log ₂ , etc.
yard	yd	latitude or longitude	lat or long	minute (angular)	'
		monetary symbols (U.S.)	\$, ¢	not significant	NS
Time and temperature		months (tables and figures): first three letters	Jan, ..., Dec	null hypothesis	H_0
day	d	registered trademark	®	percent	%
degrees Celsius	°C	trademark	™	probability	P
degrees Fahrenheit	°F	United States (adjective)	U.S.	probability of a type I error (rejection of the null hypothesis when true)	α
degrees kelvin	K	United States of America (noun)	USA	probability of a type II error (acceptance of the null hypothesis when false)	β
hour	h	U.S.C.	United States Code	second (angular)	"
minute	min	U.S. state	use two-letter abbreviations (e.g., AK, WA)	standard deviation	SD
second	s			standard error	SE
Physics and chemistry				variance	
all atomic symbols				population sample	Var var
alternating current	AC				
ampere	A				
calorie	cal				
direct current	DC				
hertz	Hz				
horsepower	hp				
hydrogen ion activity (negative log of)	pH				
parts per million	ppm				
parts per thousand	ppt, ‰				
volts	V				
watts	W				

FISHERY DATA SERIES NO. 21-03

**ESTIMATES OF PARTICIPATION, CATCH, AND HARVEST IN
ALASKA SPORT FISHERIES DURING 2017**

by

William J. Romberg

Kathrin Sundet

Mike Martz

Ian Rafferty

Alaska Department of Fish and Game

Division of Sport Fish, Research and Technical Services, Anchorage

Alaska Department of Fish and Game
Division of Sport Fish, Research and Technical Services
333 Raspberry Road, Anchorage, Alaska, 99518-1599

March 2021

This investigation was partially financed by the Federal Aid in Sport Fish Restoration Act (16 U.S.C. 777-777K) under Project F-10-33, Job No. RT-01.

ADF&G Fishery Data Series was established in 1987 for the publication of Division of Sport Fish technically oriented results for a single project or group of closely related projects, and in 2004 became a joint divisional series with the Division of Commercial Fisheries. Fishery Data Series reports are intended for fishery and other technical professionals and are available through the Alaska State Library and on the Internet: <http://www.adfg.alaska.gov/sf/publications/>. This publication has undergone editorial and peer review.

Product names used in this publication are included for completeness and do not constitute product endorsement. The Alaska Department of Fish and Game does not endorse or recommend any specific company or their products.

*William J. Romberg, Kathrin Sundet, Mike Martz, Ian Rafferty,
Alaska Department of Fish and Game, Division of Sport Fish, Research and Technical Services
333 Raspberry Road, Anchorage, AK 99518-1599, USA*

This document should be cited as follows:

Romberg, W. J., K. Sundet, M. Martz, and I. Rafferty. 2021. Estimates of participation, catch, and harvest in Alaska sport fisheries during 2017. Alaska Department of Fish and Game, Fishery Data Series No. 21-03, Anchorage.

The Alaska Department of Fish and Game (ADF&G) administers all programs and activities free from discrimination based on race, color, national origin, age, sex, religion, marital status, pregnancy, parenthood, or disability. The department administers all programs and activities in compliance with Title VI of the Civil Rights Act of 1964, Section 504 of the Rehabilitation Act of 1973, Title II of the Americans with Disabilities Act (ADA) of 1990, the Age Discrimination Act of 1975, and Title IX of the Education Amendments of 1972.

If you believe you have been discriminated against in any program, activity, or facility please write:

ADF&G ADA Coordinator, P.O. Box 115526, Juneau, AK 99811-5526

U.S. Fish and Wildlife Service, 4401 N. Fairfax Drive, MS 2042, Arlington, VA 22203

Office of Equal Opportunity, U.S. Department of the Interior, 1849 C Street NW MS 5230, Washington DC 20240

The department's ADA Coordinator can be reached via phone at the following numbers:

(VOICE) 907-465-6077, (Statewide Telecommunication Device for the Deaf) 1-800-478-3648,

(Juneau TDD) 907-465-3646, or (FAX) 907-465-6078

For information on alternative formats and questions on this publication, please contact:

ADF&G, Division of Sport Fish, Research and Technical Services, 333 Raspberry Road, Anchorage AK 99518 (907)267-2375.

TABLE OF CONTENTS

	Page
LIST OF TABLES.....	ii
LIST OF FIGURES.....	iv
LIST OF APPENDICES.....	v
PREFACE.....	vi
ABSTRACT.....	1
INTRODUCTION.....	1
SECTION 1: ALASKA STATEWIDE HARVEST SURVEY 2017	2
OBJECTIVE.....	2
METHODS.....	2
Overall Study Design.....	2
Sample Survey Design.....	3
License Holder Identification.....	3
Angler Household Identification.....	4
Stratification.....	4
Sample Sizes.....	5
Sample Selection.....	6
Mailing Schedule.....	7
Data Collection – Questionnaires.....	8
Data Handling and Entry.....	10
Response Review and Coding.....	11
Data Entry.....	12
Survey Forms Image Scans.....	13
Computer-Based Editing.....	13
Edits to General Information:.....	13
Edits to Harvest and Catch.....	15
Misidentified Species.....	15
Legal Harvest.....	16
Outlier Detection.....	16
Calculation of Estimates.....	17
Review and Finalization of Estimates.....	20
RESULTS.....	21
Survey Performance.....	21
Delivery Success.....	21
Response Rates.....	22
Participation.....	22
Harvest.....	23
Catch.....	24
DISCUSSION.....	24
ACKNOWLEDGMENTS.....	27
REFERENCES CITED.....	27
SECTION 2: TABLES AND FIGURES	29
APPENDIX A. QUESTIONNAIRES AND REMINDERS.....	61

LIST OF TABLES

Table	Page
1.1. Sample sizes, mailing numbers and responses for the 2017 questionnaire mailings.....	6
1.2. Mailing schedule for the 2017 survey.	8
1.3. Rate of delivery success by survey type, strata, and mailing, 2017.....	22
1.4. Response rates by survey type, strata and mailing, 2017.	22
2.1. List of common names, scientific names, and abbreviations.	30
2.2. List of Alaska sport fishing regions and areas.....	31
2.3. Response to the Alaska sport fishing survey mailing, 2017.....	32
2.4. Number and percent of Alaska sport fishing licenses issued ^a by residency, 1970–2017.	33
2.5. Estimated number of anglers who fished in Alaska by region and residency, 2008–2017.	34
2.6. Estimated number of anglers who fished in Alaska by area of residency, 2008–2017.	35
2.7. Estimated number of anglers by region and area fished in Alaska, 2008–2017.....	36
2.8. Estimated number of days fished in Alaska by region and residency, 2008–2017.	38
2.9. Estimated number of days fished in Alaska by region and area, 2008–2017.....	39
2.10. Alaska sport fish harvest estimates by species, 2008–2017.	41
2.11. Alaska sport fish harvest estimate standard errors by species, 2008–2017.	42
2.12. Alaska sport fish catch estimates by species, 2008–2017.	43
2.13. Alaska sport fish catch estimate standard errors by species, 2008–2017.	44
2.14. Southeast Alaska sport fish harvest estimates by species, 2008–2017.....	45
2.15. Southeast Alaska sport fish harvest estimate standard errors by species, 2008–2017.....	46
2.16. Southeast Alaska sport fish catch estimates by species, 2008–2017.....	47
2.17. Southeast Alaska sport fish catch estimate standard errors by species, 2008–2017.....	48
2.18. Southcentral Alaska sport fish harvest estimates by species, 2008–2017.	49
2.19. Southcentral Alaska sport fish harvest estimate standard errors by species, 2008–2017.	50
2.20. Southcentral Alaska sport fish catch estimates by species, 2008–2017.	51
2.21. Southcentral Alaska sport fish catch estimate standard errors by species, 2008–2017.	52
2.22. Arctic-Yukon-Kuskokwim Alaska sport fish harvest estimates by species, 2008–2017.....	53
2.23. Arctic-Yukon-Kuskokwim Alaska sport fish harvest estimate standard errors by species, 2008–2017.	54
2.24. Arctic-Yukon-Kuskokwim Alaska sport fish catch estimates by species, 2008–2017.....	55
2.25. Arctic-Yukon-Kuskokwim Alaska sport fish catch estimate standard errors by species, 2008–2017.....	56
2.26. Alaska sport fish saltwater harvest estimates by species, 2008–2017.	57
2.27. Alaska sport fish saltwater harvest estimate standard errors by species, 2008–2017.....	58
2.28. Alaska sport fish saltwater catch estimates by species, 2008–2017.	59
2.29. Alaska sport fish saltwater catch estimate standard errors by species, 2008–2017.	60
2.30. Alaska sport fish freshwater harvest estimates by species, 2008–2017.....	61
2.31. Alaska sport fish freshwater harvest estimate standard errors by species, 2008–2017.	62
2.32. Alaska sport fish freshwater catch estimates by species, 2008–2017.....	63
2.33. Alaska sport fish freshwater catch estimate standard errors by species, 2008–2017.....	64
2.34. Alaska sport sea-run Chinook salmon harvest estimates, 2008–2017, by region and area.....	65
2.35. Alaska sport sea-run Chinook salmon harvest estimate standard errors, 2008–2017, by region and area.	66
2.36. Alaska sport sea-run Chinook salmon catch estimates, 2008–2017, by region and area.....	67
2.37. Alaska sport sea-run Chinook salmon catch estimate standard errors, 2008–2017, by region and area.	68
2.38. Alaska sport sea-run coho salmon harvest estimates, 2008–2017, by region and area.	71
2.39. Alaska sport sea-run coho salmon harvest estimate standard errors, 2008–2017, by region and area.	72
2.40. Alaska sport sea-run coho salmon catch estimates, 2008–2017, by region and area.....	73
2.41. Alaska sport sea-run coho salmon catch estimate standard errors, 2008–2017, by region and area.	74
2.42. Alaska sport sockeye salmon harvest estimates, 2008–2017, by region and area.	77
2.43. Alaska sport sockeye salmon harvest estimate standard errors, 2008–2017, by region and area.....	78
2.44. Alaska sport sockeye salmon catch estimates, 2008–2017, by region and area.	79
2.45. Alaska sport sockeye salmon catch estimate standard errors, 2008–2017, by region and area.	80
2.46. Alaska sport pink salmon harvest estimates, 2008–2017, by region and area.....	83
2.47. Alaska sport pink salmon harvest estimate standard errors, 2008–2017, by region and area.....	84
2.48. Alaska sport pink salmon catch estimates, 2008–2017, by region and area.....	85

LIST OF TABLES (Continued)

Table	Page
2.49. Alaska sport pink salmon catch estimate standard errors, 2008–2017, by region and area.....	86
2.50. Alaska sport chum salmon harvest estimates, 2008–2017, by region and area.....	89
2.51. Alaska sport chum salmon harvest estimate standard errors, 2008–2017, by region and area.....	90
2.52. Alaska sport chum salmon catch estimates, 2008–2017, by region and area.....	91
2.53. Alaska sport chum salmon catch estimate standard errors, 2008–2017, by region and area.....	92
2.54. Alaska sport landlocked coho and Chinook salmon harvest estimates, 2008–2017, by region and area.....	95
2.55. Alaska sport landlocked coho and Chinook salmon harvest estimate standard errors, 2008–2017, by region and area.....	96
2.56. Alaska sport landlocked coho and Chinook salmon catch estimates, 2008–2017, by region and area.....	97
2.57. Alaska sport landlocked coho and Chinook salmon catch estimate standard errors, 2008–2017, by region and area.....	98
2.58. Alaska sport steelhead trout harvest estimates, 2008–2017, by region and area.....	101
2.59. Alaska sport steelhead trout harvest estimate standard errors, 2008–2017, by region and area.....	102
2.60. Alaska sport steelhead trout catch estimates, 2008–2017, by region and area.....	103
2.61. Alaska sport steelhead trout catch estimate standard errors, 2008–2017, by region and area.....	104
2.62. Alaska sport rainbow trout harvest estimates, 2008–2017, by region and area.....	107
2.63. Alaska sport rainbow trout harvest estimate standard errors, 2008–2017, by region and area.....	108
2.64. Alaska sport rainbow trout catch estimates, 2008–2017, by region and area.....	109
2.65. Alaska sport rainbow trout catch estimate standard errors, 2008–2017, by region and area.....	110
2.66. Alaska sport cutthroat trout harvest estimates, 2008–2017, by region and area.....	113
2.67. Alaska sport cutthroat trout harvest estimate standard errors, 2008–2017, by region and area.....	114
2.68. Alaska sport cutthroat trout catch estimates, 2008–2017, by region and area.....	115
2.69. Alaska sport cutthroat trout catch estimate standard errors, 2008–2017, by region and area.....	116
2.70. Alaska sport lake trout harvest estimates, 2008–2017, by region and area.....	119
2.71. Alaska sport lake trout harvest estimate standard errors, 2008–2017, by region and area.....	120
2.72. Alaska sport lake trout catch estimates, 2008–2017, by region and area.....	121
2.73. Alaska sport lake trout catch estimate standard errors, 2008–2017, by region and area.....	122
2.74. Alaska sport Dolly Varden/Arctic char harvest estimates, 2008–2017, by region and area.....	125
2.75. Alaska sport Dolly Varden/Arctic char harvest estimate standard errors, 2008–2017, by region and area.....	126
2.76. Alaska sport Dolly Varden/Arctic char catch estimates, 2008–2017, by region and area.....	127
2.77. Alaska sport Dolly Varden/Arctic char catch estimate standard errors, 2008–2017, by region and area.....	128
2.78. Alaska sport Arctic grayling harvest estimates, 2008–2017, by region and area.....	131
2.79. Alaska sport Arctic grayling harvest estimate standard errors, 2008–2017, by region and area.....	132
2.80. Alaska sport Arctic grayling catch estimates, 2008–2017, by region and area.....	133
2.81. Alaska sport Arctic grayling catch estimate standard errors, 2008–2017, by region and area.....	134
2.82. Alaska sport northern pike harvest estimates, 2008–2017, by region and area.....	137
2.83. Alaska sport northern pike harvest estimate standard errors, 2008–2017, by region and area.....	138
2.84. Alaska sport northern pike catch estimates, 2008–2017, by region and area.....	139
2.85. Alaska sport northern pike catch estimate standard errors, 2008–2017, by region and area.....	140
2.86. Alaska sport whitefish harvest estimates, 2008–2017, by region and area.....	143
2.87. Alaska sport whitefish harvest estimate standard errors, 2008–2017, by region and area.....	144
2.88. Alaska sport whitefish catch estimates, 2008–2017, by region and area.....	145
2.89. Alaska sport whitefish catch estimate standard errors, 2008–2017, by region and area.....	146
2.90. Alaska sport burbot harvest estimates, 2008–2017, by region and area.....	149
2.91. Alaska sport burbot harvest estimate standard errors, 2008–2017, by region and area.....	150
2.92. Alaska sport burbot catch estimates, 2008–2017, by region and area.....	151
2.93. Alaska sport burbot catch estimate standard errors, 2008–2017, by region and area.....	152
2.94. Alaska sport sheefish harvest estimates, 2008–2017, by region and area.....	155
2.95. Alaska sport sheefish harvest estimate standard errors, 2008–2017, by region and area.....	156
2.96. Alaska sport sheefish catch estimates, 2008–2017, by region and area.....	157
2.97. Alaska sport sheefish catch estimate standard errors, 2008–2017, by region and area.....	158
2.98. Alaska sport smelt harvest estimates, 2008–2017, by region and area.....	161

LIST OF TABLES (Continued)

Table	Page
2.99. Alaska sport smelt harvest estimate standard errors, 2008–2017, by region and area.....	162
2.100. Alaska sport smelt catch estimates, 2008–2017, by region and area.....	163
2.101. Alaska sport smelt catch estimate standard errors, 2008–2017, by region and area.....	164
2.102. Alaska sport Pacific halibut harvest estimates, 2008–2017, by region and area.	167
2.103. Alaska sport Pacific halibut harvest estimate standard errors, 2008–2017, by region and area.	168
2.104. Alaska sport Pacific halibut catch estimates, 2008–2017, by region and area.	169
2.105. Alaska sport Pacific halibut catch estimate standard errors, 2008–2017, by region and area.	170
2.106. Alaska sport rockfish harvest estimates, 2008–2017, by region and area.	173
2.107. Alaska sport rockfish harvest estimate standard errors, 2008–2017, by region and area.	174
2.108. Alaska sport rockfish catch estimates, 2008–2017, by region and area.	175
2.109. Alaska sport rockfish catch estimate standard errors, 2008–2017, by region and area.	176
2.110. Alaska sport lingcod harvest estimates, 2008–2017, by region and area.	179
2.111. Alaska sport lingcod harvest estimate standard errors, 2008–2017, by region and area.	180
2.112. Alaska sport lingcod catch estimates, 2008–2017, by region and area.	181
2.113. Alaska sport lingcod catch estimate standard errors, 2008–2017, by region and area.	182
2.114. Alaska sport Pacific cod harvest estimates, 2008–2017, by region and area.....	185
2.115. Alaska sport Pacific cod harvest estimate standard errors, 2008–2017, by region and area.	186
2.116. Alaska sport Pacific cod catch estimates, 2008–2017, by region and area.....	187
2.117. Alaska sport Pacific cod catch estimate standard errors, 2008–2017, by region and area.....	188
2.118. Alaska sport sablefish (black cod) harvest estimates, 2008–2017, by region and area.	191
2.119. Alaska sport sablefish harvest estimate standard errors, 2008–2017, by region and area.	192
2.120. Alaska sport sablefish (black cod) catch estimates, 2008–2017, by region and area.	193
2.121. Alaska sport sablefish (black cod) catch estimate standard errors, 2008–2017, by region and area.	194
2.122. Alaska sport shark harvest estimates, 2008–2017, by region and area.....	197
2.123. Alaska sport shark harvest estimate standard errors, 2008–2017, by region and area.....	198
2.124. Alaska sport shark catch estimates, 2008–2017, by region and area.....	199
2.125. Alaska sport shark catch estimate standard errors, 2008–2017, by region and area.....	200
2.126. Alaska sport razor clam harvest estimates, 2008–2017, by region and area.	203
2.127. Alaska sport razor clam harvest estimate standard errors, 2008–2017, by region and area.	204
2.128. Alaska sport razor clam catch estimates, 2008–2017, by region and area.....	205
2.129. Alaska sport razor clam catch estimate standard errors, 2008–2017, by region and area.	206
2.130. Alaska sport harvests of other fish harvest estimates, 2008–2017, by region and area.....	209
2.131. Alaska sport harvests of other fish harvest estimate standard errors, 2008–2017, by region and area.....	210
2.132. Alaska sport harvests of other fish catch estimates, 2008–2017, by region and area.	211
2.133. Alaska sport harvests of other fish catch estimate standard errors, 2008–2017, by region and area.....	212

LIST OF FIGURES

Figure	Page
1.1. Map of Alaska sport fishing regions and area	10
2.1. Estimated number of anglers who fished in Alaska by region, 2008–2017.	37
2.2. Estimated number of days fished in Alaska by region, 2008–2017.	40
2.3. Alaska sport sea-run Chinook salmon harvest estimates and standard errors, 2008–2017, by region.	69
2.4. Alaska sport sea-run Chinook salmon catch estimates and standard errors, 2008–2017, by region.....	70
2.5. Alaska sport sea-run coho salmon harvest estimates and standard errors, 2008–2017, by region.	75
2.6. Alaska sport sea-run coho salmon catch estimates and standard errors, 2008–2017, by region.	76
2.7. Alaska sport sockeye salmon harvest estimates and standard errors, 2008–2017, by region.	81
2.8. Alaska sport sockeye salmon catch estimates and standard errors, 2008–2017, by region.	82
2.9. Alaska sport sockeye salmon harvest estimates and standard errors, 2008–2017, by region.	87
2.10. Alaska sport sockeye salmon catch estimates and standard errors, 2008–2017, by region.	88
2.11. Alaska sport chum salmon harvest estimates and standard errors, 2008–2017, by region.	93
2.12. Alaska sport chum salmon catch estimates and standard errors, 2008–2017, by region.	94

LIST OF FIGURES (Continued)

Figure	Page
2.13. Alaska sport landlocked coho and Chinook salmon harvest estimates and standard errors, 2008–2017, by region.....	99
2.14. Alaska sport landlocked coho and Chinook salmon catch estimates and standard errors, 2008–2017, by region.....	100
2.15. Alaska sport steelhead trout harvest estimates and standard errors, 2008–2017, by region.....	105
2.16. Alaska sport steelhead trout catch estimates and standard errors, 2008–2017, by region.....	106
2.17. Alaska sport rainbow trout harvest estimates and standard errors, 2008–2017, by region.....	111
2.18. Alaska sport rainbow trout catch estimates and standard errors, 2008–2017, by region.....	112
2.19. Alaska sport cutthroat trout harvest estimates and standard errors, 2008–2017, by region.....	117
2.20. Alaska sport cutthroat trout catch estimates and standard errors, 2008–2017, by region.....	118
2.21. Alaska sport lake trout harvest estimates and standard errors, 2008–2017, by region.....	123
2.22. Alaska sport lake trout catch estimates and standard errors, 2008–2017, by region.....	124
2.23. Alaska sport Dolly Varden/Arctic char harvest estimates and standard errors, 2008–2017, by region.....	129
2.24. Alaska sport Dolly Varden/Arctic char catch estimates and standard errors, 2008–2017, by region.....	130
2.25. Alaska sport Arctic grayling harvest estimates and standard errors, 2008–2017, by region.....	135
2.26. Alaska sport Arctic grayling catch estimates and standard errors, 2008–2017, by region.....	136
2.27. Alaska sport northern pike harvest estimates and standard errors, 2008–2017, by region.....	141
2.28. Alaska sport northern pike catch estimates and standard errors, 2008–2017, by region.....	142
2.29. Alaska sport whitefish harvest estimates and standard errors, 2008–2017, by region.....	147
2.30. Alaska sport whitefish catch estimates and standard errors, 2008–2017, by region.....	148
2.31. Alaska sport burbot harvest estimates and standard errors, 2008–2017, by region.....	153
2.32. Alaska sport burbot catch estimates and standard errors, 2008–2017, by region.....	154
2.33. Alaska sport sheefish harvest estimates and standard errors, 2008–2017, by region.....	159
2.34. Alaska sport sheefish catch estimates and standard errors, 2008–2017, by region.....	160
2.35. Alaska sport smelt harvest estimates and standard errors, 2008–2017, by region.....	165
2.36. Alaska sport smelt catch estimates and standard errors, 2008–2017, by region.....	166
2.37. Alaska sport Pacific halibut harvest estimates and standard errors, 2008–2017, by region.....	171
2.38. Alaska sport Pacific halibut catch estimates and standard errors, 2008–2017, by region.....	172
2.39. Alaska sport rockfish harvest estimates and standard errors, 2008–2017, by region.....	177
2.40. Alaska sport rockfish catch estimates and standard errors, 2008–2017, by region.....	178
2.41. Alaska sport lingcod harvest estimates and standard errors, 2008–2017, by region.....	183
2.42. Alaska sport lingcod catch estimates and standard errors, 2008–2017, by region.....	184
2.43. Alaska sport Pacific cod harvest estimates and standard errors, 2008–2017, by region.....	189
2.44. Alaska sport Pacific cod catch estimates and standard errors, 2008–2017, by region.....	190
2.45. Alaska sport sablefish (black cod) harvest estimates and standard errors, 2008–2017, by region.....	195
2.46. Alaska sport sablefish (black cod) catch estimates and standard errors, 2008–2017, by region.....	196
2.47. Alaska sport shark harvest estimates and standard errors, 2008–2017, by region.....	201
2.48. Alaska sport shark catch estimates and standard errors, 2008–2017, by region.....	202
2.49. Alaska sport razor clam harvest estimates and standard errors, 2008–2017, by region.....	207
2.50. Alaska sport razor clam catch estimates and standard errors, 2008–2017, by region.....	208

LIST OF APPENDICES

Appendix	Page
A1. Example survey questionnaire booklet, 2017.....	214
A2. Alaska sport fishing survey mapsite booklet, 2017.....	226
A3. Cover letter for first mailing of Alaska sport fishing survey, 2017.....	250
A4. Second reminder cover letter for Alaska sport fishing surveys, 2017.....	251
A5. Third reminder cover letter for Alaska sport fishing surveys, 2017.....	252
A6. Fish identification guide, inserted with all Alaska sport fishing surveys, 2017.....	253

PREFACE

This report documents participation, catch, and harvest for the 2017 Alaska Statewide Harvest Survey (SWHS), which are tabulated by region, area, fishery, and species in Section 2. The format of this published report, including the number and type of results tables included in Section 2, is consistent with the published reports for survey years 2012–2016. Specifically, each catch and harvest table (Table 2.10–2.133) also has an associated standard error table for assessing the relative precision of each catch and harvest estimate. Prior to 2012, the published report contained a different set of tables and did not include standard error tables. The full-text Adobe PDF file of this report, as well as the published reports for all prior years (1977–present), is available on the ADF&G website:

<http://www.adfg.alaska.gov/sf/sportfishingsurvey/index.cfm?ADFG=main.historic>

It is important to note that this is a static report and the estimates are current as of the date of publication. Estimates for prior years included in this report may be slightly different from those found in previously published reports due to area boundary changes, which occurred in study years 1996–present. The most current estimates from this study for the years 1996–present are available via a web-based database:

<http://www.adfg.alaska.gov/sf/sportfishingsurvey/>

Estimates are available via this database query, in table form, or as a downloadable file, and should be cited as noted on the website to distinguish the electronic source from the static, published reports in the reporting archive.

ABSTRACT

Since 1977, the Alaska Department of Fish and Game has conducted an annual mail survey to estimate sport fishing participation and harvests (fish kept) statewide by Alaska fisheries, areas, regions, and species. Since 1990, catches (fish harvested plus fish released) have also been estimated. Detailed findings are presented for 2017. In 2017, an estimated 465,336 anglers fished 2,006,244 days and kept 2,208,527 of 5,125,471 fish caught.

Key words: Alaska, sport, fish, fisheries, fishing, catch, harvest, angler, angler-days, survey, Pacific salmon, trout, char, Arctic grayling, northern pike, whitefish, burbot, smelt, Pacific halibut, rockfish, lingcod, Pacific cod, crab, shrimp, shark, razor clams, Alaska Statewide Harvest Survey, Statewide Harvest Survey, SWHS

INTRODUCTION

Information on where sport fishing occurs, the extent of participation, the preferences of participants, and the species and numbers of major game fishes being caught and harvested¹ is essential for regulation and management of Alaska's sport fisheries and for total regulation, management, and harvest allocation for multiple-use fisheries. In addition, this information is needed for establishing priorities; for formulating policies; for budgeting; for planning and evaluating rehabilitation, enhancement, stocking, habitat protection, and access acquisition projects; for stock assessment; for forecasting; for gauging the economic and social significance of sport fishing; and for satisfying requests for information from individuals, special interest groups, governmental agencies, and the recreational industry.

Because of Alaska's large geographic size, meeting all these information requirements through the implementation of numerous onsite creel surveys throughout the state would be prohibitively expensive, and thus an alternative program was developed. This report describes the results from the 40th year of that program.

The Alaska Department of Fish and Game (ADF&G), Division of Sport Fish (SF) administers an annual survey of households where at least one person acquired some type of sport fishing license. Survey participants were asked general questions about the size of their household and the number of people who procured a license and sport fished during 2017. Participants were then asked to provide information about their fishing activities, including where they fished, how many people fished, whether they utilized a charter/guide, and the species they caught and kept. Maps and definitions were provided to assist participants in accurately identifying where they fished and what species they caught.

¹ Harvest is defined as fish kept, whereas catch is defined as fish harvested plus fish released.

SECTION 1:

ALASKA STATEWIDE HARVEST SURVEY 2017

OBJECTIVE

The primary objective of this project was to estimate participation, catch, and harvest for Alaska sport-caught species statewide, by area, and by fishery, such that statewide estimates of participation and harvest would be within 15% of actual values 95% of the time.

The estimated harvests of sport fish are primarily interpretable as descriptive of the legal take for each fish species. There is no attempt to estimate illegal harvest of fish in Alaska. Specifically, individuals who fail to obtain a sport fishing license or are otherwise unauthorized to catch and harvest fish are not part of the sampling frame, and as such cannot be included in the estimation process.

METHODS

OVERALL STUDY DESIGN

In previous years, two types of surveys were conducted to estimate participation, effort, catch, and harvest of Alaska sport-caught fish. The Standard survey was conducted in a manner similar to the surveys that have been conducted annually since 1977. The Supplementary survey was conducted to obtain estimates of some parameters (i.e., guided effort, catch, and harvest) that could not be obtained from the Standard survey. Both surveys involved a stratified random sampling design, as described in general and in more detail in the appropriate subsections below.

In 2009, a test survey was conducted with a sample of 10,000 households. The objective of the test was to create a single survey booklet format that would replace the two-booklet format used since 1990. The results of the 2009 test indicated that use of a single-booklet format incorporating design elements from both of the previous booklets would provide results that would be comparable to previous years' studies (Romberg et. al 2016). As a result of this testing, a new single-booklet format of the Alaska Statewide Harvest Survey was used starting in 2011 to produce the results presented in this report.

The sample frame for the 2017 survey was based on the list of 2017 sport fishing licenses sold, and on the 2017 database of Permanent Identification (PID) or Disabled Veteran (DAV) permit holders. A PID is a free license issued on request to an Alaska resident who has permanently resided in the state for at least one year and is 60 year of age or older. A DAV is issued upon request and without charge to disabled veterans. As in past survey years, angler households² were considered the sampling unit and were determined from a database combining the list of sport fishing licenses issued during the calendar year and the PID/DAV list. Stratified random samples of households containing at least one licensed angler were selected for each survey type, and a printed questionnaire was mailed to the selected households. Households that did not respond to

² Resident and nonresident anglers who purchased a sport fishing license or held a PID/DAV license were grouped into households based upon shared name, address, etc.

the first mailing were sent a complete survey packet reminder, and those who did not respond after the second mailing were sent a third complete survey packet.

Records were kept of the received response, nonresponse, or inability of the postal service to perform delivery for each household that was mailed a survey. The location codes for the fisheries visited by anglers as noted in their completed survey were verified and corrected as necessary on the original survey forms. Completed surveys with fishery location names that were written in by respondents without associated location codes were manually assigned location codes based on the project's database of valid sites. Any coding changes at this stage were annotated on the original survey form.

Data entry of the general information, catch, harvest, participation, and effort data were completed by data processing personnel. The data were organized into a general information file pertaining to household size, license purchases, and number of anglers; and a file of effort, harvest, and catch data. As part of the data entry procedures, returned surveys were scanned and saved as digital image files for subsequent database review and editing steps.

Database editing procedures included checking the most relevant pieces of information (reported species caught and kept; fishery location; and effort, harvest, and catch values) and compiling strata response summaries. During this process, SF Area Management biologists were consulted and asked to evaluate questionable responses as well as the preliminary estimates for fisheries within their management area. Manual edits to harvest records were annotated on the scanned images, and programmatic edits were tracked in computer listings.

The resulting edited values of harvest, catch, and effort were averaged over all responses from the households sampled within each stratum. These averages were then expanded into preliminary total estimates for the overall sample frame based on the combined list of sport fishing licenses sold, PID/DAVs issued, and mailing response summaries. Preliminary estimates were reviewed by SF biologists for potential errors (incorrect species by location, outlier estimates, etc.). Estimates flagged by SF biologists were then researched by project staff and survey data were edited as necessary prior to calculating the final estimates.

SAMPLE SURVEY DESIGN

License Holder Identification

The source of the households selected to be sampled in this survey was a combination of the list of sport fishing licenses issued in 2017 (2017 Sport License File) and the most current database of PID and DAV permits as of August 2017. The Sport License File is a list of all sport fishing licenses sold to individuals in Alaska that were valid for the 2017 calendar year. It was updated throughout the year as license sales were reported to the Licensing Section of the Division of Administrative Services. The PID/DAV holders list consists of all individuals who were issued a PID from 1987 through August of 2017 and of all individuals who were issued a DAV permit from 1998 through August 2017. Both PIDs and DAVs are issued by the Department of Fish and Game. A PID or DAV is valid for both hunting and fishing in Alaska³.

³ Both PID and DAV licenses are permanent and valid as long as the holder meets the requirement of Alaska residency.

Angler Household Identification

Questionnaires (described below) were mailed to 47,000 sport fishing households from the incomplete 2017 sport fishing household computer file. This computer file consisted of identifying information for households with either of the following: at least one individual who purchased a sport fishing license in 2017, or at least one individual holding a PID or DAV card. This definition of sport fishing household is the same as has been used since the 1994 survey year.

The sport fishing household list was termed ‘incomplete’ at the time of sampling because 1) most individuals who purchase sport fishing licenses or are issued PIDs or DAVs after August 2017 were not in the list, and 2) some of the names or addresses on the Sport License File were incomplete or illegible to the degree that they could not be used for sampling. PIDs can and have been re-issued under another number to the same individual. Newly issued PIDs were checked against existing PID information to identify duplicates. In addition, information from the prior year survey (updated address, mortality) was used to update the PID file. The same data checks that were applied to the PID files were applied to the records for DAV licenses.

The identification of sport fishing households involved combining and processing the incomplete Sport License File and PID/DAV holder list to identify individuals who were likely to be members of the same household as determined by the similarity of such attributes as last names, mailing address, consecutive license numbers, etc. The identification process was assumed to be imperfect but was implemented in the interest of reducing the likelihood of sending multiple surveys to the same household and to obviate the need for more complicated and expensive estimation procedures. All license, DAV, and PID holders with a U.S. address were processed for address validity by the commercial software package AccuMail frameworks from SmartSoft.

Once unique households had been identified, records for duplicate members from the same household were eliminated from the file to which the sample selection criteria were applied. Additionally, anglers who in previous years had notified the Department that they never wish to participate in the Alaska Statewide Harvest Survey were also removed from the sampling frame. The remaining records—defined as unique households—were then split by strata (see *Stratification* section), and a random sample of households was drawn from each stratum to receive the survey.

Stratification

After completion of the process to identify the 2017 list of unique sport fishing households, the household list was stratified into the following residential strata based on the mailing address noted on the issued license:

1. Alaska residents;
2. Other U.S. residents (including territories and other U.S. possessions);
3. Canada residents; and
4. Other foreign residents.

These strata have been identified and defined so that each household within each stratum has an equal probability of being surveyed. Previous surveys have indicated that the response rates of these demographic groups differ sufficiently to justify stratification. Additionally, the sport fishing household file is incomplete at the time of the initial mailing and the degree of

incompleteness differs for these strata (for example, the Other Foreign Residents stratum consistently has the highest degree of incomplete or illegible addresses). Accordingly, if a simple random sample were used without stratification, the resulting combined probabilities of sample selection and response to the survey would differ for the individual households. This same stratification structure has been used since the 1994 survey.

Ideally, each sampling stratum would be surveyed when the corresponding sampling frame was nearly complete. However, delays in the return of late-season license purchases by vendors and the subsequent entry of the data by the Licensing Section would result in an unacceptable delay in surveying households that purchase licenses earlier in the year. This issue has been addressed since 1999 using a split-sampling procedure. The split-sampling procedure involves first sending questionnaires to households that purchased their licenses early⁴ in the calendar year, as soon as most of those licenses have been entered into the license file. Subsequently, the households with late⁵ license purchases were sent questionnaires later in the year, when they were more likely to be represented in the license file. During 2017, the geographic distribution (i.e., location of license sale) of the household computer file was deemed sufficiently representative at the time planned for both resident⁶ and nonresident⁷ early license samples.

The mailing schedule called for grouping the sampling strata as follows (in terms of date of first mailing): 1) *Resident Early Mailing Group* included the **early** Alaska resident stratum, 2) *Resident Late Mailing Group* included the **late** Alaska resident stratum, 3) *Nonresident Early Mailing Group* included the **early** other USA, Canadian, and other foreign resident strata, and 4) the *Nonresident Late Mailing Group* included the **late** other USA, Canadian, and other foreign resident strata. The specifics of sample selection and schedule for surveying the residents and nonresidents are outlined below.

Sample Sizes

Sample sizes for each stratum were set based on historic sampling levels that have achieved the objective criteria for precision as established in the project operational plan in conjunction with observed response rates for the 2016 survey.

Sample size allocations were set to be proportional to the relative stratum sizes (number of households per stratum) as approximated by the estimated stratum sizes from the 2016 survey. The resultant sample size, corresponding historic values, and expected response statistics are presented in Table 1.1.

⁴ Historically, the early license sales split-sample group was defined separately for the residents (Alaska stratum) versus nonresidents (all other strata). In 2017, during the planning phases of the survey, the resident early split-sample group was defined as households with licenses purchased between January 1 and July 4, and the nonresident early split-sample group was defined as households with licenses purchased between January 1 and July 18.

⁵ Defined during the planning for the 2017 survey as license sales after July 4 for residents and after July 18 for nonresidents.

⁶ “Residents” refers to the Alaska residents sampling stratum.

⁷ “Nonresidents” refers to the combination of the Other USA, Canadian, and Other Foreign sampling strata.

Table 1.1.—Sample sizes, mailing numbers, and responses for the 2017 questionnaire mailings.

Mailing group	Relative size of mailing group (2016)	Number of households to be mailed surveys in 2017 (1st mailing)	Expected number of responses for 2017 after all reminders	Relative size of expected responses ^a	Observed number of responses for 2017 after all reminders	Relative size of observed responses ^b
Early Alaska Resident	34.31%	13,964	6,116	34.30%	5,364	33.15%
Late Alaska Resident	14.70%	8,568	2,623	14.71%	2,221	13.73%
Early Nonresident	25.49%	11,204	4,544	25.49%	4,392	27.14%
Late Nonresident	25.49%	13,264	4,546	25.50%	4,204	25.98%
Over All Strata	100.00%	47,000	17,829	100.00%	16,181	100.00%

^a Relative size of expected responses = expected number of responses for 2017 by mailing group divided by expected number of responses for 2017 over all mailing groups times 100%.

^b Relative size of observed responses = Observed number of responses for 2017 by mailing group divided by number of responses for 2017 over all mailing groups times 100%.

Sample Selection

The Sport License File available in mid-September 2017 for the Alaska Resident sample selection contained comparatively few sales that occurred after July 1. Accordingly, sales from July and beyond were not well represented in the file and the following approach was used for the resident sample selection. Based on historic sales information, July and beyond resident license sales represent about 30% of the total annual resident license sales. Thus, 70% of the total resident sample was selected from the January through July 4 sales on the Sport License File available in mid-September 2017, representing the **early** group. The remaining 30% of the sample was drawn from a version of the Sport License File that was available in late December 2017 and included only those households that purchased licenses after July 4, 2017, representing the **late** group. Households selected in the 70% **early** sample were excluded from selection in the final **late** sample.

Similarly, the Sport License File available at the end of October 2017 for the nonresident sample selection contained relatively few sales that occurred after July 18, 2017. Accordingly, sales beyond that date were not well represented in the file, and the split-sample approach was again used to address this issue. Based on historic sales information, approximately 50% of the total nonresident license sales occur January through mid-July, whereas the remaining 50% of nonresident license sales occur after mid-July. Thus, 50% of the total nonresident sample was selected from January through July 18 **early** sales in the file available at the end of October. The remaining 50% of the sample was taken from sales after July 18, 2017 (**late**), on the license file that was available in mid-December 2017. As with the resident sample selection process, nonresident households selected in **early** split-sample group were subsequently excluded from selection for the **late** split-sample group.

To avoid sending any individual household more than one survey (to reduce respondent burden), random samples were drawn for each stratum and split-sample group within the unique angler household file. The example below describes the process used for the early license sales Alaska Residents stratum:

- Randomly selected (without replacement) 14,264 households from the Alaska resident households in the incomplete sport fishing household file of **early** license sales.
- From the 14,264 selected Alaskan resident households, four sets of 3,566 households were randomly selected without replacement. Each group of 3,566 households were sent a slightly different version of the survey booklet to reduce the potential for page order, water type, and guided/unguided response effects⁸. The booklets were printed with different page layouts and page orders, briefly described as follows:
 - Kenai Freshwater/Cook Inlet pages followed by Saltwater and Freshwater pages, with the guided/chartered questions asked first (at the top of the page)
 - Kenai Freshwater/Cook Inlet pages followed by Saltwater and Freshwater pages, with the nonguided/nonchartered questions asked first (at the top of the page)
 - Saltwater and Freshwater pages followed by Kenai Freshwater/Cook Inlet pages, with the guided/chartered questions asked first
 - Saltwater and Freshwater pages followed by Kenai Freshwater/Cook Inlet pages, with the nonguided/nonchartered questions asked first

A similar process was used to allocate the four different sample booklets to the other split-sample groups (late-resident, early nonresident, late nonresident).

Mailing Schedule

A reminder letter and replacement survey were mailed to all first-time and second-time nonrespondents for all resident split-sample groups and the *early mailing group* of the nonresident strata. **First-time** nonrespondents for the *late mailing group* of the nonresident strata were mailed only one reminder letter and survey. Second-time nonrespondents of the later mailing group of the nonresident strata were not mailed a reminder letter due to concern about recall. This resulted in the first and last mailings occurring on October 13, 2017, and April 11, 2018, respectively (Table 1.2). The rationale for using multiple waves of questionnaires to elicit survey response and for estimating non-response bias is described by El-Badry (1956).

Prior to the 2006 survey, all strata (and the corresponding mailing groups) were sent three mailings. To send out three mailings for the Nonresident mailing groups and still receive all responses by May of the following year, the response period to the previous mailing was shortened to a level that was subsequently deemed to be inadequate. The various Nonresident mailing groups' households by definition are expected to receive questionnaires after a greater lapse of time than the corresponding Resident mailing groups. Similarly, receipt of their responses takes longer to transit by mail. In previous years, a substantial number of responses to the 1st and 2nd mailing for the Nonresident mailing groups would be received *after* sending the same households the corresponding reminder. Accordingly, starting in 2006 the third mailing (second reminder) was dropped for the Late Nonresident mailing group, to allow for more time for response between mailings and still produce preliminary estimates by June of the following year. The initial (first mailing) sample sizes were expanded for this mailing group to compensate for the loss of response that would have been expected to result from a third mailing. Estimation procedures have been adapted to address this change in study design and are outlined under the *Data Analysis* heading.

⁸ The four different layouts of the questionnaire are described in greater detail later in this report.

Table 1.2.–Mailing schedule for the 2017 survey.

Residency	Mailing number	Labels drawn by RTS	Labels to Assets/Data processing ^a	Survey to Post Office	Days for household response ^b
Resident	1 - early	9/22/2017	9/25/2017	10/13/2017	32
	1 - late	12/20/2017	12/21/2017	1/4/2018	47
Nonresident (Other US)	1 - early	11/2/2017	11/2/2017	11/17/2017	68
	1 - late	1/4/2018	1/5/2018	1/23/2018	39
Nonresident (Canadian and Other Foreign) ^c	1 - early	11/1/2017	11/1/2017	11/7/2017	80
	1 - late	1/5/2018	1/6/2018	1/12/2018	56
Resident	2 - early	11/16/2017	11/16/2017	12/4/2017	59
	2 - late	2/21/2018	2/21/2018	3/2/2018	30
Nonresident (Other US)	2 - early	1/23/2018	1/24/2018	2/6/2018	44
	2 - late	3/2/2018	3/5/2018	3/16/2018	
Nonresident (Canadian and Other Foreign) ^c	2 - early	1/24/2018	1/25/2018	1/29/2018	52
	2 - late	3/5/2018	3/9/2018	3/12/2018	
Resident	3 - early	2/7/2018	2/7/2018	2/20/2018	
	3 - late	4/2/2018	4/2/2018	4/11/2018	
Nonresident (Other US)	3 - early	3/20/2018	3/20/2018	3/29/2018	
Nonresident (Canadian and Other Foreign) ^c	3 - early	3/20/2018	3/21/2018	3/23/2018	

^a Labels for Other US residents are processed at the project’s contracted mailing house: Assets, Inc. Mailings to Canadian and other foreign addresses are processed by Sport Fish Data Processing. As a general rule, the mailing house can process 1,000 pieces per day. This figure is used when calculating the number of days for processing once labels are received.

^b Difference between date of previous mailing delivered to post office and date labels drawn for current mailing.

^c Booklets being sent to the foreign segment (Canadian and Other Foreign) of the Nonresident strata will go to the post office earlier than the Other USA addresses to allow for more time in transit.

DATA COLLECTION – QUESTIONNAIRES

Data on 2017 sport fishing activities by resident and nonresident households were collected using mailed questionnaires. The 2017 survey questionnaire was essentially the same layout as the single-booklet format tested in 2009 and used since 2011 (Romberg, Jennings, Sundet, and Bingham *In prep*; Romberg, Jennings, and Sundet *In prep*; Romberg, Sundet, and Rafferty *In prep* a-c). A final 2017 questionnaire is included (Appendix A1) and consisted of a cover letter; a survey booklet; a mapsite booklet that provided maps to assist participants with locating where their effort, catch, and harvest occurred; and a postage-paid return envelope. Also included with the survey was a full-color index of fish species with pictures and descriptions to aid the respondent in the identification of fish harvested and serve as an incentive to participate in the survey (Appendix A6).

Sport fishing participation, catch, and harvest data for finfish and shellfish were collected for all areas and fishing locations in the state (Figure 1.1; Table 2.2). Catch and harvest data were collected on a site- and species-specific basis. The number of anglers, number of trips, and number of days fished were collected on a site-specific basis only.

Participants were asked to not report any commercial, subsistence or personal use fishing activity. However, on the last page of the survey booklet, space was provided for respondents to record their personal use harvest. The space for this information at the end of the survey was selected to distinguish personal use effort, catch, and harvest from sport fishing. Space in the questionnaire was also provided for respondents to comment on ways to improve sport fishing in Alaska.

Survey questionnaires were mailed to 47,000 (Table 1.1) sport fishing households from the incomplete 2017 sport fishing household file for the first mailing, with reminder letters (Appendices A3 and A4) and questionnaires mailed to first-time and second-time nonrespondents as described previously (Table 1.2).

Each mailing of the survey contained a cover letter and a corresponding survey booklet printed with a unique color of ink (brown, green, blue) to identify the mailing (1st, 2nd, and 3rd, respectively). The cover letters for all mailings bore the signature of the Director of the Division of Sport Fish (Appendices A2–A4).

As noted above, four different versions of the questionnaire were used in 2017. The order of guided/charter-related fishing activities was reversed in the page layout. Additionally, the page order was also reversed as defined previously.

The 2017 survey questionnaire had the following main sections:

- Saltwater sport fishing, charter;
- Saltwater sport fishing, non-charter;
- Freshwater sport fishing, guided;
- Freshwater sport fishing, non-guided;
- Kenai Peninsula Freshwater sport fishing, guided;
- Kenai Peninsula Freshwater sport fishing, non-guided;
- Cook Inlet Saltwater, charter;
- Cook Inlet Saltwater, non-charter
- Personal Use Dipnetting (salmon only), guided;
- Personal Use Dipnetting (salmon only), non-guided;
- Shellfish, guided; and
- Shellfish, non-guided.

The survey booklet included a definition for chartered/guided. The Saltwater Sport Fishing pages provided additional information for exact specifications of large vs. small Chinook “king” salmon *Oncorhynchus tshawytscha* based on where fish were caught.

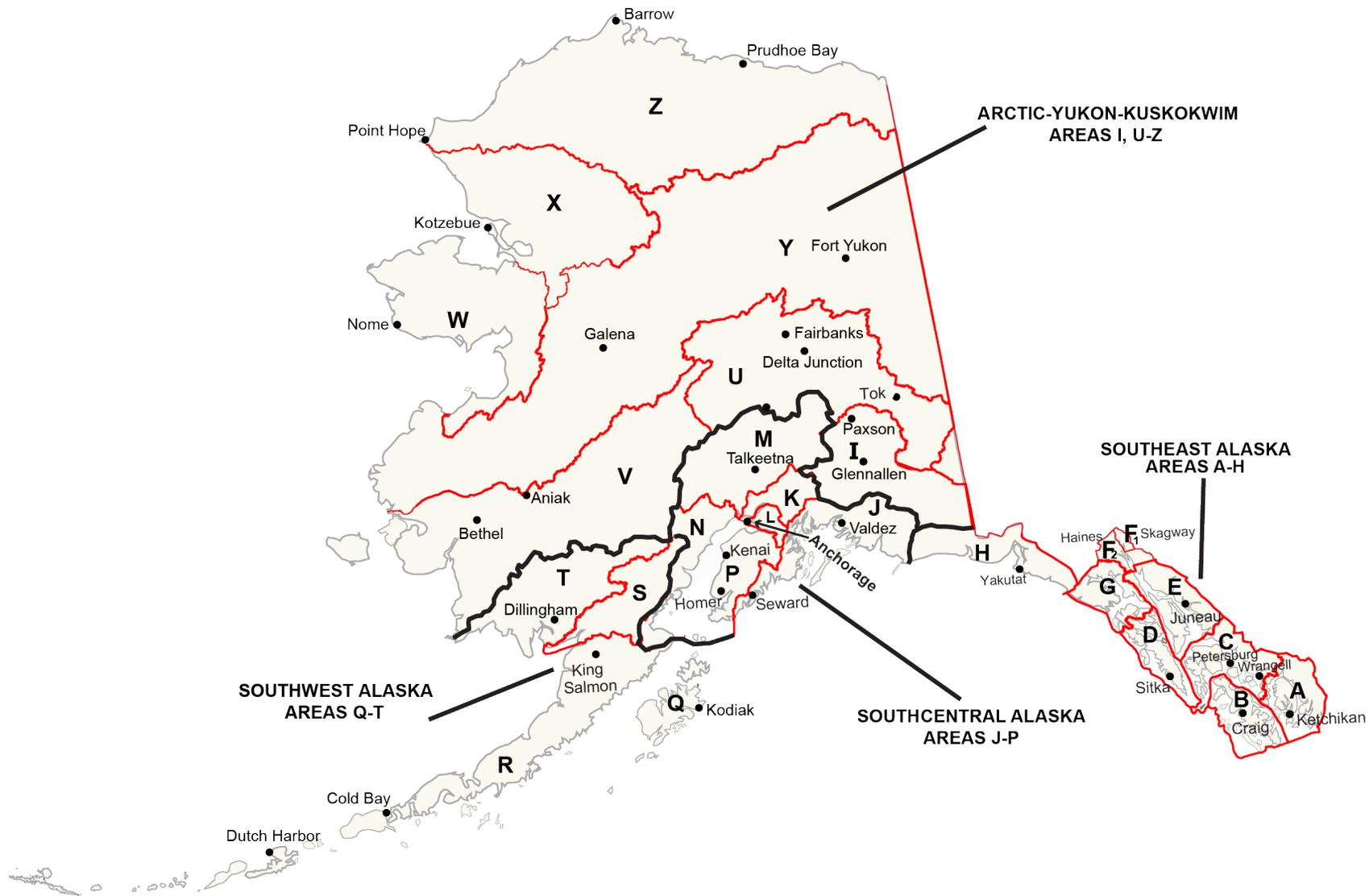


Figure 1.1.—Map of Alaska sport fishing regions and area.

DATA CODING AND ENTRY

Response Review and Coding

The returned surveys were reviewed and coded by project staff before data entry. This coding involved the following tasks:

- Transfer of the fishing license number to the General Questions page and to each harvest page containing information;
- Review and coding of all entries per specified procedures;
- Mapping of new sites (i.e., names of fishing sites that anglers wrote in but that did not yet have a designated site code) to the proper geographic areas; and
- Maintenance of a breakdown table by area of the Other Species category.

Additional review and coding processes were conducted prior to data entry to address issues related to the data collected from responses to the General Questions page (Page 3 of all booklet types; see Appendix A1). The review and coding processes are summarized below:

- If there were participation, catch, and harvest data but no information on the General Questions page, the fishing license number was still transcribed and entered into the database. If a questionnaire was returned completely blank, the license number was written on the General Questions page to be captured.
- Unless there were supporting written comments that were specific (e.g., “None”, which was coded as zero), all blank fields were left blank and not coded.
- General question 1A asked for the number of household members that purchased a sport fishing license, including those who did not fish. A sport fishing license is required of all persons 16 years of age or older while sport fishing, including digging razor clams.
- General question 1B asked for the number of household members that purchased a sport fishing license (1A) AND who also sport fished. Occasionally respondents erroneously included household members under age 16 or age 60 and over that fished.
- General question 2A asked for the number of household members under age 16 who sport fished. A sport fishing license is not required of persons under 16 years of age.
- General question 2B asked for the number of household members that are Alaska residents 60 years of age or older who hold a PID or DAV for Alaska sport fishing. If no response was given, the space was left blank.
- General question 2C asked for the number of PID or DAV card holders who sport fished. If no response was given, the space was left blank.
- General question 3 asked for the total number of household members in the household that sport fished in Alaska during 2017. This question is used as a check of data provided in questions 1A-2C.
- There was a space provided for comments on sport fishing in Alaska and for suggestions on how to improve it in the future. If a questionnaire was returned without any response to the general questions (i.e., blank) and no supporting written comment but with pages of data, parameters 1A and 1B were identified for possible correction (as described in this report’s *Computer-Based Editing* section).

Following the review and coding of the general questions on page 3 of the survey booklet, review and coding of the reported location, effort, catch, and harvest information were conducted as follows:

- Location references or codes provided by respondent were reviewed and corrected if in error.
- Instructions requested that both the number of fish caught and the number of fish kept be reported in the labeled columns. If the reported catch was less than the reported harvest, the numbers were reversed.
- If a write-in species of fish was reported, the data coder checked to see if it could be transferred to one of the labeled species columns. A list of species synonyms is on file (Table 2.1). A list of write-in species that cannot be transferred is maintained by the data entry software. If no harvest was reported or if the species was not a fish or shellfish (e.g., seals), it was not captured.
- Each fishing site in the survey responses is usually represented by a unique location code in the annual electronic survey sites file. Occasionally, responses contain new fishing sites written in by respondents. The specific location and geographic coordinates of these previously unreported fishing sites were identified using National Geographic's TOPO! software or ESRI ArcGIS software. If not available in TOPO! or ArcGIS, these sites were located using Orth (1971) or the ADF&G Internet stocked sites listings database. SF biologists were asked to provide maps, coordinates, and other relevant information for sites not found with the above sources. For each new site, a unique location code was assigned, and the location code was added to the survey sites file (Sites File) along with the site name, latitude and longitude, water type and fish type, codes for valid species, landlocked and stocking status, and comments pertaining to this new fishery. When applicable, valid species were verified through the Anadromous Waters Catalogs (Johnson and Blossom 2011 a-f). Each new location code was written adjacent to the write-in fishing site in the questionnaire. New sites are being added to an ArcView-based GIS currently under development.

Data Entry

Following review and coding, data entry of the general information, catch, harvest, participation, and effort data were completed by data processing personnel. Data entry instructions are reviewed and updated annually.

For data entry purposes the questionnaires are viewed as two record types: 1) general information; and 2) harvest, catch, effort and participation information.

Throughout the data entry process, the data were reformatted into two fixed record length tables. The general information table contained the following information from the General Questions page of completed surveys:

- The number of people in the household who purchased sport fishing licenses in 2017,
- The number of those who purchased a license AND sport fished in 2017,
- The number of PID/DAV holders that are members of the household,
- The number of youth anglers (under age 18 for residents, or under age 16 for nonresidents), who are not required to purchase a sport fishing license, in the household in 2017, and

- The number of PID/DAV holders and youth household members who actually sport fished in Alaska during 2017.

The harvest information table contains information about each occurrence of fishing indicated by any household angler. This information includes the following:

- Where the fishing took place (site),
- Whether it was freshwater or saltwater (water type),
- Whether it was chartered/guided,
- Whether it was from boat or shore,
- The number of household anglers who fished at that location,
- The number of household trips to that location,
- The sum of each household angler's days fished at that location, and
- The number of fish caught and kept, by species, at that location.

Survey Forms Image Scans

Prior to data entry, each survey questionnaire was scanned in color and saved as an image file. These images were then accessed from a desktop computer via selection of the survey ID number. This approach allowed images of questionable records to be retrieved electronically, rather than by sorting through boxes to find the paper original. The interface also allowed project staff, primarily research analysts, to add comments about post data-entry interpretation of the record. The scanned image files were retained on a server for archival purposes, and the returned paper surveys were recycled.

Computer-Based Editing

Although some response errors were detected by the data coders (e.g., information recorded on the incorrect Area page), the majority of data errors or problems were detected and addressed using computer-based editing programs. The edit programs checked the data records for incorrect fishing site codes; inconsistent and potentially incorrect relationships between the number of members in the household, the number of anglers, number of trips, and number of days fished; fish harvest or catch at a site where that species is not known to be found; and data that indicate a higher-than-legal harvest. A summary of the computer-based editing is available below.

Edits to General Information:

A computer edit program checked to see that line 1B (number of persons recorded in 1A who sport fished in Alaska in 2017) was less than or equal to line 1A (number of persons in your household who purchased a 2017 sport fishing license, including those who did not fish in Alaska).

Occasionally respondents filled in the general questions with zero (indicating that no anglers fished in that household) AND subsequently completed data pages indicating that sport fishing occurred. A computer edit program checked to see if there were completed data pages. If this occurred, the zeroes on the general information page were replaced with the number of angler information from the completed data pages (harvest record).

The General Questions responses were also processed to compute a maximum number of household anglers who fished (TOTFSHRS). There were a variety of TOTFSHRS adjustments for situations where components were missing, exceeded 10 TOTFSHRS, or where the components exceeded the number of PIDs or license holders in the household. A check was made to verify that responses to questions 2A–2B on the general information page of the survey were not recorded as a subtotal in 2C. If there were further discrepancies, household anglers who fished (HHFSHRS; response to General Question 3) was used to adjust TOTFSHRS. If none of this information was complete for the survey response, the largest number of anglers reported fishing at any site for this response was used for TOTFSHRS.

After all adjustments were completed and TOTFSHRS was calculated, any value for number of anglers on a reported harvest record that exceeded TOTFSHRS was set equal to TOTFSHRS. No adjustments were made to other effort variables, catch, or harvest data during this step.

The first check for the participation, effort, catch, and harvest data was to ensure for each species that when harvest was greater than catch, catch was set equal to harvest. Also, in records with razor clam and hardshell clam harvest equal to 0 and catch greater than 0, the harvest was set equal to catch.

Computer programs were then used to examine the participation variables of number of anglers (NA), the effort variables of number of trips (NT), and days fished (DF) and to impute missing values. One goal was to change only those fields with missing information and to not modify reported data. At the culmination of this process there were no 0 values (or blanks) for NA, NT, and DF in any records with reports of catch or harvest. To accomplish this, project staff made two passes through the data. The first pass used only those data records that were not missing one or more values for the NA, NT, and DF variables, and for which $NA \leq DF$. For each site code, these records were then categorized as local and nonlocal⁹ to ultimately obtain an average trip length (AVG TRIP) in days fished. The general process was to impute missing values for NA first, followed by DF and then NT.

- $NA = 0$:
 1. If $NT > 0$, $DF > 0$, and $TOTFSHRS > 0$, then replace NA with TOTFSHRS.
 2. If $NT > 0$ and $DF = 0$, then NA and DF were replaced with TOTFSHRS.
 3. If $NT = 0$ and $DF > 0$, then NA was replaced with $\text{MIN}(TOTFSHRS, DF)$; NT was imputed later.
 4. If $NT = 0$ and $DF = 0$, then NA and DF were replaced with TOTFSHRS and NT was imputed later.
- $NA \neq 0$
 1. $NA > DF$ and $DF > 0$, then DF was replaced with NA.
 2. $NA > 0$ and $DF = 0$, then DF was replaced with NA.
- At this stage in the editing process, both NA and DF have values > 0 . If $NT = 0$, then it was replaced with $(DF / NA) / \text{AVG TRIP}$ depending on angler category (i.e., local or nonlocal). If $NA < NT$ and $DF < (NA * NT)$, DF was replaced with the greater of DF or NT.

⁹ An angler household that resides within the area where the site occurs is local; all other anglers are nonlocal. Thus, under this definition, some Alaska residents would be grouped with nonresidents in the nonlocal group.

This approach for imputing missing data items was somewhat biased compared to a more principled approach to imputation. A comparison of ad hoc mean imputation for each missing value (for NA, DF, and NT) with a multiple imputation approach using a Monte Carlo Markov chain data augmentation procedure (MI-MCMC) for the 1999 survey, indicated the missing data mechanism was missing completely at random (MCAR) (Rubin 1987, Schafer 1997). Accordingly, ignoring the missing data would be justified in this case. However, due to interdependencies between these effort variables and later data checks in the data processing sequence, it was determined that imputation was necessary to avoid overall biases in estimates of participation as well as catch and harvest parameters. The results from the imputation procedure outlined above compared favorably with both the simple mean imputation and the MI-MCMC imputation. Accordingly, the simpler approach, as described above, has been followed since 1999.

Edits to Harvest and Catch

Misidentified Species

The next data check identified records with species reported as caught or harvested that are not known to occur at a location. The general approach was to change the reported species to a species that does occur at the specific location based on guidance that was historically provided by SF biologists. If no specification for changing a species existed for the site, it was considered an invalid species for the location. Records containing invalid species were listed and manually reviewed.

In some cases, invalid species corrections were simple. Several invalid species records included cases where the anglers harvested only razor clams but harvested them from a boat site. The edit programs were revised to move these records to the equivalent shoreline sites. The edit programs also changed anadromous coho salmon harvested from landlocked lakes stocked with landlocked salmon to landlocked salmon.

The remaining flagged records were checked against notes taken from contacts with SF biologists in previous years whose comments have been translated to a misidentification field in the annual sites file. Additional sources of information such as division reports, the ADF&G stocking database, the Anadromous Waters Catalog, and ADF&G emergency orders were also consulted to determine the validity of a species. Based on this review, edit programs and the SWHS sites file were updated.

Finally, SF biologists were contacted concerning species that could not be confirmed as either correct or incorrect by the above approach. In some cases the respondent may have recorded the harvest in the wrong site. In other cases the respondent may have misidentified the species. If there were two or more possibilities for what the correct response should be and none of the possibilities seemed more likely, then the species harvest and catch were zeroed out. Considering the possibility that species may be present that have not been previously encountered, and that species might move to new waters (i.e., northern pike in Southcentral Alaska), some of these records were left unaltered. In any of these cases, the biologist's opinion was followed and recorded, and the edit programs were updated to reflect their recommendations.

A list of 'other fish' write-ins was reviewed to determine if any species were recorded by several respondents for a location. When this occurred, area staff were contacted to determine the validity of the species in that location.

Legal Harvest

The objectives for this survey were directed at the estimation of legal sport harvest, under the assumptions that: 1) most respondents voluntarily stay within legal harvest limits, 2) respondents that purposely fail to stay within legal limits would not be expected to voluntarily report their illegal activities, and/or 3) individuals who fail to obtain a sport fishing license or are otherwise unauthorized to catch and harvest fish are not part of the sampling frame and as such cannot be included in the estimation process. Therefore, reported harvest was checked against an annually updated database of daily and seasonal bag limits. Information on number of anglers, days fished, and angler residency was taken into account when editing records so they did not exceed the maximum legal harvests.

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

There is some circumstantial evidence that the reports of apparently illegal harvest of small Chinook salmon were misreports of large Chinook salmon in Southeast Alaska waters¹⁰. Yet lacking strong evidence to the contrary, the assumption was that these were illegal harvest of small Chinook salmon and thus harvests were reduced to legal limits for the size category and location fished.

Outlier Detection

After misidentified species edits and legal harvest limits had been applied, outliers were identified. Because harvests above legal limits had already been reduced to legal harvest and catch values were unaltered, outlier detection focused on effort and catch.

Scatter plots were generated for each species' catch and average catch per angler day versus angler days fished at the survey area level. An annual 'outlier' file identifies values above which the catch rate for each species at a given survey area flags the record as an outlier candidate. If a record was flagged, the survey image scan was reviewed to verify data entry, look for supporting comments, check effort, and review the validity of the site or species. Unless there were data entry errors or obvious problems in recording effort, SF biologists were consulted to determine whether the record was an outlier, or if it was related to subsistence or personal use fishing. If the catch rates seemed high but were determined reasonable by the biologist, the annual outlier file was edited to reflect larger catch rate thresholds. Most survey areas contain some sites with exceptionally high catch rates. These sites and their maximum catch rates were identified by SF biologists and were integrated as 'exceptions' to the outlier checks in the outlier detection program, along with explanations in the program code.

Scatter plots were also generated for number of anglers and number of trips versus angler-days fished at the survey area level. These plots were checked for unusually large effort and participation values in view of residence, guided fishing, and geographic area. As with the catch

¹⁰ During on-site surveys of select locations within Southeast Alaska (see Hubartt et al. 2002) the *observed* harvest of small Chinook salmon in fisheries where the taking of small Chinook salmon was illegal was negligible, if not nonexistent. It is supposed that some respondents to the mail survey mistakenly report their legal harvest of large Chinook salmon as the incorrect small Chinook salmon, because separate columns were used for the reporting of small versus large Chinook (see Appendix A1).

outlier candidates, scans were checked for records with unusually large effort and SF biologists were consulted as needed.

If a record was determined by a SF biologist to be an outlier, the entire record was removed. On average, this affects only 10–20 harvest file records out of 20,000–30,000 records per year.

The editing programs described above produced listings that identified all changes made, record by record. This information was maintained in electronic form. Editing programs included comments/annotations explaining the nature of the code and identifying changes made from previous years and issues that need to be addressed. If edits were made in the data entry screens rather than in editing programs, the associated survey image scans were annotated with electronic tags explaining the updates. The above three computer editing steps were performed iteratively until all identified errors and data issues had been corrected.

Calculation of Estimates

The procedure for calculation of the catch, harvest, and participation estimates required the following information from each household for the period of January 1 through December 31, 2017: 1) the number of licensees; 2) participation (number of anglers, trips, and days fished); and 3) number of fish caught and number of fish harvested by species and site. This information was pooled across split-samples within each residential stratum. Then the catch or harvest for each species or participation for each site for each stratum was estimated by the following procedure (with subscripts denoting parameter of estimation deleted for simplicity). ‘Stratum’ refers to the residential strata: Alaska, PID, other United States, Canada, and Foreign. ‘Mailing group’ refers to the stratification of early residents, late residents, early nonresidents, and late nonresidents by license purchase date (Table 2). For data analysis, the Alaska stratum is split into PID (including DAV card holders) and Alaska (other Alaskan residents), yielding five residential strata. The PID stratum is analyzed separately because it is sampled from a permanent, rather than an annual sport license.

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

where:

\hat{Y}_{hk} = estimated total catch, harvest, or participation for stratum h within site k ;

y_{hijk} = catch, harvest or participation at site k by household j responding to mailing i within stratum h ;

q_s = number of mailings sent to households within each stratum (denoted by s), set to 3 for the early and late resident mailing groups as well as the early non-resident mailing group, and set to 2 for the late non-resident mailing group;

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

\hat{N}_h = estimated number of households with at least one fishing license holder in 2017 for stratum h , calculated as:

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

M_h = number of license holders making up stratum h in 2017;

P_h = the total number of unique Alaska residents holding a valid PID or DAV card (note that this term is only valid for the early Alaska stratum; accordingly, the value is set to zero (0) for the other seven strata);

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

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

n_{hi}^\dagger = the number of respondents to mailing i within stratum h who answered the questions regarding the number of sport fishing license and PID or DAV holders;

m_{hij} = the reported number of sport fishing license holders in household j for mailing i within stratum h ;

p_{hij} = the reported number of individual PID or DAV holders for household j for mailing i within stratum h ; and

\hat{R}_s = nonresponse adjustment for each mailing group s (Table 6).

The \hat{R}_s values were obtained by simulation based upon exponential regression models for those households that did respond (analogously to the procedures outlined by Drane et al. 1993). The exponential regression model that is used has been shown over the years of the survey to fit the observed responses over the three mailings, and it essentially corresponds with the demonstrated relationship that nonrespondents tend to fish less frequently than respondents (Brown and Wilkins 1978; Leinonen 1988; Tarrant et al. 1993; Fisher 1993).

The value of \hat{R}_s for the late nonresident mailing group involves the use of response information from the early nonresident mailing group as a “proxy” to compensate for not sending a third reminder to this mailing group.

The two exponential regression models are as follows:

$$\ln(n_{si}) = \alpha'_s + \beta'_s i + \varepsilon'_{si}, \quad \text{for } i = 1, 2, 3; \text{ and} \quad (4)$$

$$\ln(r_{si}) = \alpha''_s + \beta''_s i + \varepsilon''_{si}, \quad \text{for } i = 1, 2, 3; \quad (5)$$

where:

n_{si} = number of households responding to mailing i for mailing group s ;

r_{si} = mean participation or harvest for a species, over all sites by respondents to mailing i for mailing group s ;

and ε'_{si} and ε''_{si} are normal variates with mean 0 and variance $\sigma_s'^2$ and $\sigma_s''^2$, respectively.

Parameters α'_s , α''_s , β'_s , and β''_s were estimated using the method of least squares (Draper and Smith 1981). The form of the regression models used was chosen during previous Alaska statewide mail surveys conducted in a similar manner. The chosen form was demonstrated to fit the patterns of response for the respondents to the three mailings. The set $\{n_4, n_5, \dots, n_I\}$ was estimated from regression 4, and the set $\{r_4, r_5, \dots, r_I\}$ was estimated from regression 5, where I was the simulated mailing at which the following criterion was met (this criterion was not always met, and in these cases an infinite series equality was used; see Equations (13) and (14)):

$$\sum_{i=1}^{q_s} n_{si} + \sum_{i=(q_s+1)}^I \tilde{n}_{si} = n_s \quad (6)$$

where:

$$\begin{aligned} \tilde{n}_{si} &= \text{simulated number of households responding to the simulated mailing } i, \text{ for } i = 3 \text{ or } 4, 5, \\ &\dots, I, \text{ for mailing group } s, \text{ calculated as:} \\ &= e^{(\alpha'_s + \beta'_s i)}; \text{ and} \end{aligned} \quad (7)$$

n_s = the number of households sampled for mailing group s .

All regression models are evaluated for lack of fit using plots of observed and predicted values for each parameter. If any serious lack of fit is evident, which can be the case for some of the statistics for non-major species, then the statistics associated with the days-fished participation parameter are used as a proxy for calculating the nonresponse ratio for these species.

The term \hat{R}_s is calculated as follows:

$$\hat{R}_s = \frac{\theta_s \bar{Y}_s + (1 - \theta_s) \tilde{Y}_s}{\bar{Y}_s}; \quad (8)$$

where:

θ_s = ratio of the number of observed respondents to the total of observed respondents and “simulated” respondents for mailing group s , calculated as follows:

$$\begin{aligned} &= \frac{\sum_{i=1}^{q_s} n_{si}}{\sum_{i=1}^{q_s} n_{si} + \sum_{i=(q_s+1)}^I \tilde{n}_{si}} \end{aligned} \quad (9)$$

\bar{Y}_s = the reported average participation or harvest of a particular species over all locations throughout the state for all responding households within each mailing grouping s , calculated as:

$$\begin{aligned} &= \frac{\sum_{i=1}^{q_s} \sum_{j=1}^{n_{si}} y_{sij}}{\sum_{i=1}^{q_s} n_{si}}; \end{aligned} \quad (10)$$

y_{sij} = reported participation or harvest of a particular species over all locations throughout the state for responding household j for mailing i within mailing grouping s ;

\tilde{Y}_s = the simulated average harvest of a particular species over all locations throughout the state for all households simulated to respond to simulated mailings within each mailing group s , calculated as:

$$= \frac{\sum_{i=(q_s+1)}^I \tilde{n}_{si} \tilde{r}_{si}}{\sum_{i=(q_s+1)}^I \tilde{n}_{si}}; \quad (11)$$

\tilde{r}_{si} = the simulated harvest of a particular species over all locations throughout the state for all households simulated to respond to the simulated mailing i within mailing group s , calculated using the parameters obtained from regression 5, as:

$$= e^{(\alpha_s'' + \beta_s'' i)} \quad (12)$$

Note that for the values for \tilde{n}_{si} and \tilde{r}_{si} calculated by Equations 7 and 12 for the Nonresident Late mailing group will be calculated using the regression model developed for the Nonresident Early mailing group.

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

$$\sum_{i=(q_s+1)}^I \tilde{n}_{si} \tilde{r}_{si} = \frac{e^{(\alpha_s' + \alpha_s'')}}{1 - e^{(\beta_s' + \beta_s'')}} - e^{(\alpha_s' + \alpha_s'')} - \left(\sum_{i=1}^{q_s} e^{(\alpha_s' + \beta_s' i + \alpha_s'' + \beta_s'' i)} \right) \quad (13)$$

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

$$\sum_{i=(q_s+1)}^I \tilde{n}_{si} = \frac{e^{\alpha_s'}}{1 - e^{\beta_s'}} - e^{\alpha_s'} - \left(\sum_{i=1}^{q_s} e^{(\alpha_s' + \beta_s' i)} \right) \quad (14)$$

Note that the regression parameters used above for the Nonresident Late mailing group are the regression parameter estimates from the Nonresident Early mailing group.

Standard errors for participation, catch, and harvest estimates were calculated using a bootstrap resampling procedure (Efron and Tibshirani 1993) with 1,000 replications.

Review and Finalization of Estimates

The following guidelines from (Mills and Howe 1992) and reevaluated by Clark (2009) provided a basis for evaluating the utility of statewide survey estimates and for determining at which level of detail estimates would be published:

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

Estimates for individual sites that did *not* match these criteria were combined (aggregated) with other sites of a similar type within a geographic hierarchy for publication purposes.

Preliminary estimates were summarized into effort, harvest, and catch reports at the survey area and location code for each species. These ‘detail reports’ were made available to SF biologists via an intranet site for review of the estimates. The estimates were also summarized by species and survey area and compared to the previous five years of estimates. During this preliminary review period, biologists provided feedback on the data and problems were researched and edited. Changes or corrections recommended by biologists were incorporated into the database(s) as appropriate, and an electronic spreadsheet was created keeping track of all changes during the review period. After conclusion of the review period, the entire computer-based editing and estimation process was re-run to generate final estimates.

An annual sites database (Sites File) including the following information recorded by site was maintained and updated based on the edits:

- Site code value;
- Site name;
- Hierarchy site code;
- Report code value;
- Type of fishing;
- Valid species for site;
- Latitude-longitude of site; and
- List of commonly misidentified species.

The final effort, harvest, and catch estimates were also summarized by survey group (resident and nonresident) for each location code.

After all edits and data summaries were completed, the resulting current year estimate files were appended into the historic SQL server Estimate Database to facilitate miscellaneous updates and to produce various tables used in the Statewide Harvest Survey Report and other divisional reports. The estimates database is composed of several working subsets of the data, including number of angler estimates at various aggregation levels, published reports, detailed reports, and estimates at the location code and residence (residents and nonresident) level. Annual, intermediate files are stored separately on the network.

RESULTS

SURVEY PERFORMANCE

Delivery Success

Considerable time was spent reviewing and correcting addresses in both the Sport License and PID/DAV files throughout the year. The U.S. Postal Service mandated the use of an address forwarding process in 2017 that automatically updated addresses from our sample that have recently changed. These pre-sampling address cleaning efforts contributed greatly to the 97.2% delivery success for the survey booklets in 2017 (Table 1.3).

Table 1.3.—Rate of delivery success by survey type, strata, and mailing, 2017.

Mailing Group	Total Mailed	Total Nondeliverable	Percent Successful
Nonresident Early	27,187	445	98.3%
Nonresident Late	22,038	426	98.1%
Total – Nonresident	49,225	871	98.2%
Resident Early	32,253	1,457	95.5%
Resident Late	21,660	552	97.5%
Total – Resident	53,913	2,009	96.3%
Grand Total	103,138	2,880	97.2%

Response Rates

The overall response rate for the 2017 survey was 36.7%, with the nonresident mailing groups achieving a 39.0% response rate and the resident mailing groups a 41.1% response rate (Tables 1.4 and 2.3).

Table 1.4.—Response rates by survey type, strata, and mailing, 2017.

Mailing Group	Total Households		Nondeliverable	Response Percentage
	Mailed	Responses		
Nonresident Early	11,456	4,392	445	39.9%
Nonresident Late	12,664	4,204	426	34.4%
Nonresident Total	24,120	8,596	871	37.0%
Resident Early	14,261	5,364	1,457	41.9%
Resident Late	8,556	2,221	552	27.8%
Resident Total	22,817	7,585	2,009	36.5%
Total	46,937 ^a	16,181	2,880	36.7%

^a A sampling error in 2017 led to 63 households being removed from the sample in 2017.

PARTICIPATION

During 2017 a total of 460,664 Alaska sport fishing licenses were issued for sport fishing activity in Alaska, with 162,513 (35%) issued to Alaska residents and 298,151 (65%) issued to nonresidents visiting Alaska (Table 2.4). The number of resident licenses issued decreased significantly (20%) from 2016, whereas the number of nonresident license sales remained similar to 2016 (less than 0.01% decline).

A total of 465,336 anglers¹¹ went sport fishing in Alaska in 2017, generating a total of 2,006,244 angler-days of effort. An estimated 207,443 Alaska residents went sport fishing in Alaska in 2017 and accounted for 53% (1,054,423 days) of the total angler-days fished, and 257,893 nonresident visitors fished in Alaska in 2017, accounting for 47% (951,821 days) of the total angler-days fished (Table 2.8).

A total of 126,288 anglers went sport fishing in Southeast Alaska region and generated 558,095 angler-days of effort (28% of statewide total angler-days). Approximately 73% of all anglers

¹¹ Estimated total anglers from the SWHS, which includes both licensed (paid, permanent licenses) and unlicensed anglers (e.g., youth).

who fished in Southeast Alaska in 2017 were nonresident visitors and they accounted for 57% of the total angler-days, whereas 27% of Southeast anglers were Alaska residents, accounting for 43% of the total angler-days (Tables 2.5–2.8).

A total of 320,086 anglers went sport fishing in Southcentral Alaska region and generated 1,312,586 angler-days of effort (65% of statewide total angler-days). Approximately 50% of all anglers who fished in Southcentral Alaska in 2017 were nonresident visitors and they accounted for 45% of the total angler-days, whereas 50% of Southcentral anglers were Alaska residents, accounting for 55% of the total angler-days (Tables 2.5–2.8).

A total of 38,146 anglers went sport fishing in the Arctic-Yukon-Kuskokwim (AYK) region of Alaska and generated 133,563 angler-days of effort (7% of statewide total angler-days). Approximately 37% of all anglers who fished in the Arctic-Yukon-Kuskokwim region in 2017 were nonresident visitors and they accounted for 36% of the total angler-days, whereas 63% of Arctic-Yukon-Kuskokwim anglers were Alaska residents, accounting for 64% of the total angler-days (Tables 2.5–2.8).

HARVEST

An estimated 2,208,527 finfish¹² were harvested in Alaska by anglers in 2017 (Table 2.10). This total included 10,072 smelt and capelin *Osmeridae* generally taken as part of personal use fisheries. Of the remaining 2,198,455 harvested finfish, 1,388,674 (63%) were anadromous (sea-run) Pacific salmon *Oncorhynchus*, 352,454 (16%) were Pacific halibut *Hippoglossus stenolepis*, 278,635 (12.7%) were rockfish *Sebastes*, 41,839 (1.9%) were rainbow trout *O. mykiss*, 18,508 (0.8%) were Dolly Varden *Salvelinus malma* and Arctic char *S. alpinus*, 12,456 (0.6%) were Arctic grayling *Thymallus arcticus*, and 9,151 (0.4%) were landlocked salmon (Chinook *O. tshawytscha*, coho *O. kisutch*, and kokanee *O. nerka*; Tables 2.10–2.11).

The 2017 total anadromous salmon estimated harvest of 1,388,674 included 118,890 Chinook salmon *O. tshawytscha*, 665,800 coho salmon *O. kisutch*, 448,055 sockeye salmon *O. nerka*, 137,732 pink salmon *O. gorbuscha*, and 18,197 chum salmon *O. keta* (Table 2.10). The estimated marine salmon harvest total was 700,659, which included 84,997 Chinook, 467,987 coho, 35,874 sockeye, 101,584 pink, and 10,307 chum salmon (Table 2.26). The estimated freshwater harvest total of 688,015 anadromous salmon included 33,893 Chinook, 197,813 coho, 412,271 sockeye, 36,148 pink, and 7,890 chum salmon (Table 2.30).

Regionally, 491,576 anadromous salmon were harvested in Southeast Alaska (Table 2.14), 871,209 in Southcentral (Table 2.18), and 25,889 in the Arctic-Yukon-Kuskokwim Area (Table 2.22).

Region and area estimates of 2017 sport fish harvest and catch for each species, including the most recent 10-year history of estimates and their associated standard errors, are presented in Tables 2.34–2.133 and Figures 2.3–2.5.

¹² Starting in 2014, total fish harvest reported only includes finfish—no shellfish. Prior to 2014, razor clams were included in the total.

CATCH

Anglers fishing in Alaska in 2017 generated an estimated total catch of 5,125,471 finfish (Table 2.12). Of this total catch 2,616,368 (51.1%) were sea-run salmon, 305,193 (6%) were sea-run Chinook salmon, 978,533 (19.1%) were coho salmon, 664,623 (13%) were sockeye salmon, 543,709 (10.6%) were pink salmon, 124,410 (2.4%) were chum salmon, 551,600 (10.8%) were Pacific halibut, 407,200 (8%) were rockfish, 645,227 (12.6%) were rainbow trout, 374,132 (7.3%) were Dolly Varden and Arctic char, and 236,227 (4.6%) were Arctic grayling (Tables 2.12–2.13).

Regional and Area estimates of 2017 sport fish harvest and catch for each species, including the most recent 10-year history of estimates and their associated standard errors, are presented in Tables 2.14–2.133, with regional trends by species presented in Figures 2.3–2.50.

DISCUSSION

Survey performance can be measured, in part, by the success of delivery of the survey to the respondents. In 2017, the percentage of surveys that were returned as ‘undeliverable’ from the postal service was less than 3% of the total mailed (Table 1.3). The strata and mailing that had the highest percentage of undeliverable surveys was the Resident Early mailing (4.5%). This stratum contained the largest number of all the mailings and is the only mailing that contains households with permanent license holders, who do not have to renew their licenses and do not have updated contact information collected directly by ADF&G.

Another measure of survey performance is the survey response rate. After rising slightly from 2007 through 2009 to a high of 45.8%, the overall survey response rate for the Alaska Statewide Harvest Survey has been declining. Starting with the implementation of the new single-booklet survey format in 2011 (Romberg et al. 2016), the overall survey response rate dropped to 40% and has been declining about 1% each year. In 2017, the overall response rate for the survey was 36.7%—a 1% decline from 2016. Based upon this data and response trends in other fields as noted in survey research literature, project staff anticipates a continued slow decline in survey response rate for this project into the future. The Division is researching alternative methods for conducting this survey in the future to stabilize or increase survey response rates in coming years.

In 2017, the estimated total number of anglers who went sport fishing in Alaska was essentially the same as in 2016, but the total number of anglers who fished in 2016 and 2017 is approximately 5% lower than the total number of anglers who fished in Alaska in 2014 and 2015. At the regional level, the total number of anglers who fished in Southeast Alaska has increased slightly over 2016, whereas the total number anglers fishing in Southcentral and AYK regions of Alaska has remained relatively similar in the past five years (Figure 2.1). However, these trends mask differences by residency within each region. Within the AYK region, the number of resident anglers exceeded the total number of nonresident anglers (64% vs. 36% respectively), which is typical in most years. However, the total number of resident anglers who fished in Southcentral Alaska has declined annually from 2014 to 2017. During the same time, the total number of nonresident anglers fishing in Southcentral Alaska has increased annually so that almost 50% of all anglers in the region were nonresidents in 2016 and 2017 (Table 2.5). Similar to most years, the total number of nonresident anglers who fished in Southeast region was almost three times the number of resident anglers (Table 2.5). Trends in angler participation

in Alaska are driven by a number of factors, including current regulations that affect the total number of fish that can be caught and harvested, the strength of salmon fishing runs in a given year (i.e., number of fish available to catch or perception thereof), as well as openings/closures of popular personal use fisheries in southcentral Alaska (which require purchase of a sport fishing license to participate).

From 2008 to 2012, the total number of angler-days of fishing in Alaska decreased from a high of 2,315,592 days (2008) to a low of 1,885,692 days (2012). In 2013 and 2014, total angler-days increased to similar high levels found in 2008 (2,309,851 angler-days) but declined again from 2015 through 2017 to approximately 2 million total angler-days statewide (Table 2.8).

This trend pattern is largely driven by the annual changes in total angler-days fished in the Southcentral region of Alaska (Figure 2.2), because approximately 64–67% of the total angler-days in any given year occur within Southcentral Region, followed by Southeast Region (27% of total days) and then AYK Region (7% of total days; Table 2.9). In the past five years, the total number of angler-days has been slowly increasing in Southeast Alaska, while AYK total angler-days have remained relatively stable (Figure 2.2). The relative proportion of total angler-days fished by residents and nonresidents varies within each of Alaska’s three management regions, but overall the relative proportion of angler-days by nonresidents has increased in each year since 2014 as the number of total angler-days fished by residents in each region has decreased each year during that time period. Trends in angler-days fished in Alaska are driven by a number of factors, including current regulations and emergency orders that affect the total number of fish that can be caught and harvested, the strength of salmon fishing runs, and weather.

In looking at some of the most sought-after species, total sea-run salmon harvest statewide (all species) increased by 15% from 1.21 million in 2016 to 1.39 million in 2017 (Table 2.10). This was largely due to a significant rebound from 2016 in the total number of sea-run coho salmon harvested in both Southeast and Southcentral Regions, which was over 240,000 more than the 2016 total coho harvest (a 57% increase). Total sea-run salmon harvests were up modestly in both Southeast and Southcentral Regions (20% and 14% respectively) but down approximately 20% in AYK Region from 2016 levels (Tables 2.14, 2.18, 2.22). Chinook salmon total harvest was down by 16% statewide in 2017, driven by a 20% decline in harvest in Southeast Region and a 10% decline in Southcentral Region (Tables 2.14, 2.18). Total statewide harvest of sockeye and pink salmon decreased 4% and 12%, respectively, from 2016 levels, whereas harvest of chum salmon was up 11% (Table 2.10).

Statewide saltwater total harvest of Pacific halibut, lingcod, and rockfish in 2017 was considerably lower than 2016 levels. Pacific halibut and lingcod total harvests decreased 12% from 2016 and were the lowest levels in the past 10 years. The total rockfish harvest decreased 20% and was at the lowest level in the past 5 years (Table 2.10). In 2017 Pacific cod total harvest decreased 54% from 2016 levels, whereas Sablefish/Black cod harvest increased 40% (Table 2.10). In the Southeast region, the total harvest of all key saltwater species declined from 2016 levels. Specifically, total Pacific halibut harvest in 2017 decreased by 7%, lingcod harvest decreased by 6%, and rockfish harvest decreased by 14%. The largest decline was seen in Pacific cod harvest, which in 2017 declined 46% from the previous year (Table 2.10). In the Southcentral region, there were somewhat larger declines in the total harvest of key saltwater species, with a 14% decrease in Pacific halibut harvest, a 20% decrease in lingcod harvest, a 26% decrease in rockfish harvest, and a 58% decrease in Pacific cod harvest (Table 2.10).

In freshwater, the statewide total harvests of most commonly targeted species were down considerably from 2016 levels, reaching their lowest harvest levels in the past 5 years (Table 2.10). Specifically, Arctic grayling harvest was down 16% from 2016, total harvest of Dolly Varden/Arctic Char declined 37%, northern pike harvest declined by 16%, lake trout harvest declined by 35%, and burbot harvest declined by 31%. The decline in total harvest of these species occurred in both Southcentral and AYK regions with somewhat larger declines in harvest for most species in the AYK region (Tables 2.14, 2.18, 2.22).

In 2017, total statewide catch of Arctic grayling, steelhead trout, and lake trout exceeded 2016 levels. Specifically, steelhead catch increased by 28%, Arctic grayling by 8%, and lake trout by 6% (Table 2.12). The total statewide catch of rainbow trout in 2017 was slightly lower than 2016 (down 5%), whereas total catch of Dolly Varden/Arctic char and northern pike were considerably smaller in 2017 than 2016, down 22% and 30% respectively (Table 2.12). The trends in total catch by freshwater species varied by management region, with rainbow trout and northern pike catches down in AYK Region (10% and 39%, respectively), while total catch of lake trout increased 30%, and Dolly Varden/Arctic char and Arctic grayling catches increased slightly (3% and 2%, respectively) (Table 2.24). In Southcentral Region, total catches of rainbow trout and Arctic grayling increased over 2016 levels (15% and 28% respectively), while total catches of lake trout, Dolly Varden/Arctic char, and northern pike were down from 2016 levels (Table 2.20). In Southeast Alaska, total catch of steelhead trout and rainbow trout increased considerably in 2017 (40% and 36% respectively), whereas total catch of Dolly Varden/Arctic char and cutthroat trout decreased by approximately 30% (Table 2.16).

An in-depth analysis of the multi-year comparison of the estimates from the Alaska Statewide Harvest Survey and the harvest data collected from various on-site creel surveys was conducted by Clark (2009). Findings of this comparative study support the selected methodology used for this project, ensuring that the survey consistently produces estimates that compare closely with onsite creel surveys conducted around the state.

For more than three and a half decades the Alaska Statewide Harvest Survey has proved successful in economically meeting management needs for estimates of participation and harvest for Alaska's sport fisheries. Historically, the harvest results have been consistent with those from onsite creel surveys for large fisheries (Mills and Howe 1992; Clark 2009). ADF&G sport fish biologists report that statewide survey harvest estimates for areas without analogous creel survey estimates are generally comparable with their own knowledge and observations. Although the survey is generally well received by the angling public, it is clear from the feedback received from angling households in recent years that they would like to see alternative methods developed for responding to the survey (e.g., electronic) to increase the ease of responding.

ACKNOWLEDGMENTS

We thank Michaela Young, Elizabeth Hughes, Heidi Scott, Umut Chakan, and Sherri Luafulu for managing survey responses, logging, scanning, and keying of survey data. Kyra Sherwood was instrumental in survey booklet preparation and preparing the final manuscript for publication. Our gratitude is also extended to Division of Sport Fish Area Management Biologists and their staff for their input and review of the estimates contained herein. Most importantly, we would like to thank the angling public for its funding (through payment of state license fees and through payment of excise taxes collected pursuant to the Federal Aid in Sport Fish Restoration Act [16 U.S.C. 777-777K]; this investigation was partially financed under Project F-10-33 Job No. RT-01), and for taking the time to respond to the survey so that estimates of Alaska sport fishing effort, catch, and harvest could be produced.

REFERENCES CITED

- Brown, T. L., and B. T. Wilkins. 1978. Clues to reasons for nonresponse, and its effect upon variable estimates. *Journal of Leisure Research* 10:226-231.
- Clark, R. A. 2009. An evaluation of estimates of sport fish harvest from the Alaska statewide harvest survey, 1996–2006. Alaska Department of Fish and Game, Special Publication 09-12, Anchorage. <http://www.adfg.alaska.gov/FedAidPDFs/sp09-12.pdf>
- Drane, J. W., D. Richter, and C. Stoskopf. 1993. Improved imputation of non-responses to mailback questionnaires. *Statistics in Medicine* 12:283-288.
- Draper, N. R., and H. Smith. 1981. *Applied regression analysis*, 2nd edition. John Wiley and Sons, NY.
- Efron, B., and R. J. Tibshirani. 1993. *An introduction to the bootstrap*. Chapman and Hall, NY.
- El-Badry, M. A. 1956. A sampling procedure for mailed questionnaires. *Journal of the American Statistical Association* 51:209-227.
- Fisher, M. R. 1993. The relationship between nonresponse bias and angler specialization. Ph. D. dissertation, Texas A&M University, College Station.
- Gradshteyn, I. S., and I. M. Ryzhik. 1980. *Table of integrals, series, and products*, corrected and enlarged edition. Academic Press, Orlando, Florida.
- Hubartt, D. J., M. Jaenicke, and A. E. Bingham. 2002. Harvest estimates for selected marine sport fisheries in Southeast Alaska during 2001. Alaska Department of Fish and Game, Fishery Data Series No. 02-30, Anchorage. <http://www.adfg.alaska.gov/FedAidPDFs/fds02-30.pdf>
- Johnson, J., and B. Blossom. 2017a. Catalog of waters important for spawning, rearing, or migration of anadromous fishes – Arctic Region, Effective June 1, 2017. Alaska Department of Fish and Game, Special Publication No. 17-01, Anchorage. <http://www.adfg.alaska.gov/FedAidpdfs/SP17-01.pdf>
- Johnson, J., and B. Blossom. 2017b. Catalog of waters important for spawning, rearing, or migration of anadromous fishes – Interior Region, Effective June 1, 2017. Alaska Department of Fish and Game, Special Publication No. 17-02, Anchorage. <http://www.adfg.alaska.gov/FedAidpdfs/SP17-02.pdf>
- Johnson, J., and B. Blossom. 2017c. Catalog of waters important for spawning, rearing, or migration of anadromous fishes – Southcentral Region, Effective June 1, 2017. Alaska Department of Fish and Game, Special Publication No. 17-03, Anchorage. <http://www.adfg.alaska.gov/FedAidpdfs/SP17-03.pdf>
- Johnson, J., and B. Blossom. 2017d. Catalog of waters important for spawning, rearing, or migration of anadromous fishes – Southeastern Region, Effective June 1, 2017. Alaska Department of Fish and Game, Special Publication No. 17-04, Anchorage. <http://www.adfg.alaska.gov/FedAidpdfs/SP17-04.pdf>

REFERENCES CITED (Continued)

- Johnson, J., and B. Blossom. 2017e. Catalog of waters important for spawning, rearing, or migration of anadromous fishes – Southwestern Region, Effective June 1, 2017. Alaska Department of Fish and Game, Special Publication No. 17-05, Anchorage. <http://www.adfg.alaska.gov/FedAidpdfs/SP17-05.pdf>
- Johnson, J., and B. Blossom. 2017f. Catalog of waters important for spawning, rearing, or migration of anadromous fishes – Western Region, Effective June 1, 2017. Alaska Department of Fish and Game, Special Publication No. 17-06, Anchorage. <http://www.adfg.alaska.gov/FedAidpdfs/SP17-06.pdf>
- Leinonen, K. 1988. Biased catch estimates due to nonresponse in fishing questionnaire. Finnish Fisheries Research 7:66-74.
- McLaughlin, P. A., D. K. Camp, M. V. Angel, E. L. Bousfield, P. Brunel, R. C. Brusca, D. Cadien, A. C. Cohen, K. Conlan, L. G. Eldredge, D. L. Felder, J. W. Goy, T. Haney, B. Hann, R. W. Heard, E. A. Hendrycks, H. H. Hobbs III, J. R. Holsinger, B. Kensley, D. R. Laubitz, S. E. LeCroy, R. Lemaitre, R. F. Maddocks, J. W. Martin, P. Mikkelsen, E. Nelson, W. A. Newman, R. M. Overstreet, W. J. Poly, W. W. Price, J. W. Reid, A. Robertson, D. C. Rogers, A. Ross, M. Schotte, F. R. Schram, C.-T. Shih, L. Watling, G. D. F. Wilson, and D. D. Turgeon. 2005. Common and scientific names of aquatic invertebrates from the United States and Canada: crustaceans. American Fisheries Society, Special Publication 31, Bethesda, MD.
- Mills, M. J., and A. L. Howe. 1992. An evaluation of estimates of sport fish harvest from the Alaska statewide mail survey. Alaska Department of Fish and Game, Special Publication No. 92-2, Anchorage. <http://www.adfg.alaska.gov/FedAidPDFs/sp92-02.pdf>
- Nelson, J. S., E. J. Crossman, H. Espinosa-Pérez, L. T. Findley, C. R. Gilbert, R. N. Lea, and J. D. Williams. 2004. Common and scientific names of fishes from the United States, Canada and Mexico. 6th edition. American Fisheries Society, Special Publication 29, Bethesda, MD.
- Orth, D. J. 1971. Dictionary of Alaska place names. U. S. Geological Survey Professional Paper 567. United States Government Printing Office, Washington, D. C.
- Romberg, W. J., G. Jennings, A. E. Bingham, and K. H. Sundet. 2016. Testing of single-booklet questionnaire format for the Alaska Statewide Harvest Survey. Alaska Department of Fish and Game, Special Publication No. 16-10, Anchorage. <http://www.adfg.alaska.gov/FedAidPDFs/sp16-10.pdf>
- Romberg, W. J., G. B. Jennings, K. Sundet, and A. E. Bingham. *In prep.* Estimates of participation catch and harvest in Alaska sport fisheries during 2012. Alaska Department of Fish and Game, Fishery Data Series, Anchorage.
- Romberg, W. J., G. B. Jennings, and K. Sundet. *In prep.* Estimates of participation catch and harvest in Alaska sport fisheries during 2013. Alaska Department of Fish and Game, Fishery Data Series, Anchorage.
- Romberg, W. J., K. Sundet, and I. Rafferty. *In prep* a. Estimates of participation catch and harvest in Alaska sport fisheries during 2014. Alaska Department of Fish and Game, Fishery Data Series, Anchorage.
- Romberg, W. J., K. Sundet, and I. Rafferty. *In prep* b. Estimates of participation catch and harvest in Alaska sport fisheries during 2015. Alaska Department of Fish and Game, Fishery Data Series, Anchorage.
- Romberg, W. J., K. Sundet, and I. Rafferty. *In prep* c. Estimates of participation catch and harvest in Alaska sport fisheries during 2016. Alaska Department of Fish and Game, Fishery Data Series, Anchorage
- Rubin, D. B. 1987. Multiple imputation for nonresponse in surveys. John Wiley and Sons, New York.
- Schafer, J. L. 1997. Analysis of incomplete data. Chapman and Hall, London.
- Tarrant, M. A., M. J. Manfredo, P. B. Bayley, and R. Hess. 1993. Effects of recall bias and nonresponse bias on self-report estimates of angling participation. North American Journal of Fisheries Management 13:217-222.

**SECTION 2:
TABLES AND FIGURES**

Table 2.1.–List of common names, scientific names, and abbreviations.

Common Name	Scientific Name	Abbreviation
Chinook salmon	<i>Oncorhynchus tshawytscha</i>	KS
Small Chinook salmon	<i>Oncorhynchus tshawytscha</i>	KI
Coho salmon	<i>Oncorhynchus kisutch</i>	SS
Landlocked salmon–coho	<i>Oncorhynchus kisutch</i>	LS
Landlocked salmon–Chinook	<i>Oncorhynchus tshawytscha</i>	LS
Sockeye salmon	<i>Oncorhynchus nerka</i>	RS
Kokanee salmon	<i>Oncorhynchus nerka</i>	KO
Pink salmon	<i>Oncorhynchus gorbuscha</i>	PS
Chum salmon	<i>Oncorhynchus keta</i>	CS
Steelhead	<i>Oncorhynchus mykiss</i>	SH
Rainbow trout	<i>Oncorhynchus mykiss</i>	RT
Cutthroat trout	<i>Oncorhynchus clarki</i>	CT
Brook trout	<i>Salvelinus fontinalis</i>	BT
Lake trout	<i>Salvelinus namaycush</i>	LT
Dolly Varden	<i>Salvelinus malma</i>	DV
Arctic char	<i>Salvelinus alpinus</i>	AC
Arctic grayling	<i>Thymallus arcticus</i>	GR
Northern pike	<i>Esox lucius</i>	NP
Whitefish	<i>Coregonus</i> spp. and <i>Prosopium</i> spp.	WF
Burbot	<i>Lota lota</i>	BB
Inconnu (Sheefish)	<i>Stenodus leucichthys</i>	SF
Pacific halibut	<i>Hippoglossus stenolepis</i>	HA
Pacific cod	<i>Gadus macrocephalus</i>	PC
Shark ^a		SK
Rockfish	<i>Sebastes</i> spp.	RF
Lingcod	<i>Ophiodon elongatus</i>	LC
Sablefish (Black cod)	<i>Anoplopoma fimbria</i>	BC
Smelt	Osmeridae	SM
Capelin	<i>Mallotus villosus</i>	SM
King crab	<i>Paralithodes camtschatica</i>	KC
Dungeness crab	<i>Cancer magister</i>	DC
Tanner crab	<i>Chionoecetes bairdi</i>	TC
Shrimp	Pandalidae	SHR
Razor clam	<i>Siliqua patula</i>	RCL
Hardshell clams		HCL
Butter clam	<i>Saxidomus giganteus</i>	
Littleneck clam	<i>Protothaca staminea</i>	
Cockle	<i>Clinocardium nuttallii</i>	
Gaper clam	<i>Tresus capax</i>	
Eastern softshell clam	<i>Mya arenaria</i>	
Truncated mya	<i>Mya truncata</i>	
Alaska surf clam	<i>Spisula polynyma</i>	
Other shellfish		OS

Source: Nelson et al. 2004, McLaughlin et al. 2005.

^a *Lamna ditropis* (salmon shark), *Somniosus pacificus* (Pacific sleeper shark), and *Squalus acanthias* (spiny dogfish) are the most common species caught.

Table 2.2.–List of Alaska sport fishing regions and areas.

Regions	
I	Southeast Alaska
II	Southcentral Alaska
III	Arctic-Yukon-Kuskokwim
Areas	
Southeast Alaska	
A	Ketchikan
B	Prince of Wales Island
C	Kake, Petersburg, Wrangell, Stikine
D	Sitka
E	Juneau
F	Haines/Skagway
G	Glacier Bay
H	Yakutat
Southcentral Alaska	
J	Prince William Sound/North Gulf Coast
K	Knik Arm
L	Anchorage
M	Susitna River drainage
N	West Cook Inlet drainages
P	Kenai Peninsula/Cook Inlet
Q	Kodiak
R	Alaska Peninsula-Aleutian Islands
S	Kvichak River drainage
T	Nushagak, Wood River and Togiak
Arctic-Yukon-Kuskokwim	
I	Upper Copper River drainage
U	Tanana River drainage
V	Kuskokwim River/Kuskokwim Bay drainages
W	Seward Peninsula/Norton Sound
X	Northwest Alaska
Y	Yukon River drainage
Z	North Slope/Brooks Range

Table 2.3.–Response to the Alaska sport fishing survey mailing, 2017.

Residency		Mailing 1	Mailing 2	Mailing 3 ^c	Total
Nonresident Early	Mailed	11,456	8,552	7,179	27,187
	Nondeliverable ^a				445
	Non-responses	8,552	7,179	6,619	22,350
	Responses	2,616	1,282	494	4,392
	Response Rate ^b	23.8%	11.6%	4.5%	39.9%
Nonresident Late	Mailed	12,664	9,374	0	22,038
	Nondeliverable ^a				426
	Non-responses	9,374	8,034		17,408
	Responses	2,958	1,246		4,204
	Response Rate ^b	24.2%	10.2%		34.4%
Resident Early	Mailed	14,261	9,823	8,169	32,253
	Nondeliverable ^a				1,457
	Non-responses	9,823	8,169	7,440	25,432
	Responses	3,329	1,454	581	5,364
	Response Rate ^b	26.0%	11.4%	4.5%	41.9%
Resident Late	Mailed	8,556	6,955	6,149	21,660
	Nondeliverable ^a				552
	Non-responses	6,955	6,149	5,783	18,887
	Responses	1,235	698	288	2,221
	Response Rate ^b	15.4%	8.7%	3.6%	27.8%
Total	Mailed	46,937	34,704	21,497	103,138
	Nondeliverable ^a				2,880
	Non-responses	34,704	29,531	19,842	84,077
	Responses	10,138	4,680	1,363	16,181
	Response Rate ^b	23.0%	10.6%	3.1%	36.7%

^a Because there is no proof of questionnaire delivery unless returned by the addressee, all nondeliverables are counted as nondeliverable to the first mailing.

^b The response rates were calculated as the percentage of each mailing's responses to the first mailing excluding the nondeliverable surveys.

^c Starting in 2006, the third mailing (second reminder) was dropped for the Late Nonresident mailing group, to allow for more time for response between mailings and still produce preliminary estimates by June of the following year. The initial (first mailing) sample sizes were expanded for this mailing group to compensate for the loss of response that would have been expected to result from a third mailing.

Table 2.4.–Number and percent of Alaska sport fishing licenses issued^a by residency, 1970–2017.

Year	Resident		Nonresident		Total
	Number	Percent	Number	Percent	
1970	71,711	63.2	41,683	36.8	113,394
1971	75,952	65.8	39,543	34.2	115,495
1972	82,088	66.0	42,347	34.0	124,435
1973	89,823	70.2	38,179	29.8	128,002
1974	95,485	70.8	39,415	29.2	134,900
1975	101,900	69.0	45,821	31.0	147,721
1976	118,679	70.7	49,194	29.3	167,873
1977	121,913	68.6	55,821	31.4	177,734
1978	129,750	66.5	65,481	33.5	195,231
1979	130,458	64.4	72,090	35.6	202,548
1980	132,103	63.9	74,699	36.1	206,802
1981	138,784	61.4	87,407	38.6	226,191
1982	156,324	59.8	105,014	40.2	261,338
1983	169,761	62.4	102,481	37.6	272,242
1984	177,949	60.7	115,127	39.3	293,076
1985	176,725	58.2	127,077	41.8	303,802
1986	180,936	57.6	133,051	42.4	313,987
1987	181,721	56.3	140,773	43.7	322,494
1988	177,383	54.0	151,308	46.0	328,691
1989	174,942	51.8	163,098	48.2	338,040
1990	180,214	49.6	182,779	50.4	362,993
1991	184,813	50.5	181,182	49.5	365,995
1992	182,245	46.6	208,516	53.4	390,761
1993	181,843	46.9	205,720	53.1	387,563
1994	183,186	44.6	227,088	55.4	410,274
1995	176,428	42.6	238,021	57.4	414,449
1996	180,747	42.6	243,731	57.4	424,478
1997	180,029	41.7	251,865	58.3	431,894
1998	173,833	40.6	254,494	59.4	428,327
1999	172,717	39.1	269,153	60.9	441,870
2000	177,700	38.7	280,939	61.3	458,639
2001	178,251	39.3	274,968	60.7	453,219
2002	184,790	39.4	284,583	60.6	469,373
2003	188,411	39.4	289,358	60.6	477,769
2004	188,976	37.5	314,446	62.5	503,422
2005	188,697	36.3	331,570	63.7	520,267
2006	181,672	36.8	311,777	63.2	493,449
2007	183,089	36.4	320,058	63.6	503,147
2008	186,311	38.3	300,090	61.7	486,401
2009	194,658	45.5	252,427	56.5	447,085
2010	186,777	42.2	255,432	57.8	442,209
2011	190,148	42.4	258,840	57.6	448,488
2012	183,725	42.0	253,694	58.0	437,419
2013	187,507	41.3	266,271	58.7	453,778
2014	189,540	40.9	273,535	59.1	463,075
2015	190,366	39.7	288,915	60.3	479,281
2016	203,413	40.3	300,862	59.7	504,275
2017	162,513	35.3	298,151	64.7	460,664

^a Total number of sold or issued sport fishing licenses as reported by ADF&G Licensing Section via annual licensing summary statistics at <http://www.adfg.alaska.gov/index.cfm?adfg=license.statistics>. Total includes complimentary permanent licenses and complimentary National Guard/Military reserve issued during the year and is *not* the certified count of unique licensed individuals reported to the U.S. Fish and Wildlife Service.

Table 2.5.—Estimated number of anglers who fished in Alaska by region and residency, 2008–2017.

Year	Region	Residents	%Residents	Nonresidents	%Nonresidents	Total
2008	Southeast Alaska	27,334	21.1	101,974	78.9	129,308
	Southcentral Alaska	166,430	50.5	163,188	49.5	329,618
	Arctic-Yukon-Kuskokwim	28,460	67.0	14,031	33.0	42,491
	Statewide	206,798	43.3	270,483	56.7	477,281
2009	Southeast Alaska	30,926	26.7	84,988	73.3	115,914
	Southcentral Alaska	170,282	55.5	136,391	44.5	306,673
	Arctic-Yukon-Kuskokwim	32,032	72.7	12,027	27.3	44,059
	Statewide	217,221	49.1	225,535	50.9	442,756
2010	Southeast Alaska	28,320	26.5	78,733	73.5	107,053
	Southcentral Alaska	170,889	54.3	143,921	45.7	314,810
	Arctic-Yukon-Kuskokwim	32,647	70.6	13,613	29.4	46,260
	Statewide	214,492	48.5	227,606	51.5	442,098
2011	Southeast Alaska	27,443	25.9	78,614	74.1	106,057
	Southcentral Alaska	172,711	53.7	148,727	46.3	321,438
	Arctic-Yukon-Kuskokwim	25,929	68.3	12,020	31.7	37,949
	Statewide	212,491	47.9	231,413	52.1	443,904
2012	Southeast Alaska	29,175	26.6	80,396	73.4	109,571
	Southcentral Alaska	161,982	53.3	141,988	46.7	303,970
	Arctic-Yukon-Kuskokwim	27,520	68.1	12,907	31.9	40,427
	Statewide	206,278	47.5	227,548	52.5	433,826
2013	Southeast Alaska	31,111	26.9	84,467	73.1	115,578
	Southcentral Alaska	177,151	53.4	154,493	46.6	331,644
	Arctic-Yukon-Kuskokwim	27,827	68.3	12,916	31.7	40,743
	Statewide	221,989	47.6	243,947	52.4	465,936
2014	Southeast Alaska	31,202	25.7	90,236	74.3	121,438
	Southcentral Alaska	181,171	54.8	149,188	45.2	330,359
	Arctic-Yukon-Kuskokwim	25,954	68.6	11,889	31.4	37,843
	Statewide	226,593	48.2	243,877	51.8	470,470
2015	Southeast Alaska	35,204	26.5	97,662	73.5	132,866
	Southcentral Alaska	178,708	54.1	151,714	45.9	330,422
	Arctic-Yukon-Kuskokwim	28,995	67.6	13,902	32.4	42,897
	Statewide	229,657	47.3	255,786	52.7	485,443
2016	Southeast Alaska	31,499	25.8	90,599	74.2	122,098
	Southcentral Alaska	161,143	50.0	160,944	50.0	322,087
	Arctic-Yukon-Kuskokwim	24,777	65.4	13,106	34.6	37,883
	Statewide	206,906	44.5	257,718	55.5	464,624
2017	Southeast Alaska	34,212	27.1	92,076	72.9	126,288
	Southcentral Alaska	160,402	50.1	159,684	49.9	320,086
	Arctic-Yukon-Kuskokwim	24,235	63.5	13,911	36.5	38,146
	Statewide	207,443	44.6	257,893	55.4	465,336

Note: Statewide angler totals do not equal regional sums because some anglers fished in more than one region.

Table 2.6.—Estimated number of anglers who fished in Alaska by area of residency, 2008–2017.

Residency	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Alaska residents ^a										
(A) Ketchikan	4,730	5,986	4,537	3,727	3,502	6,064	5,174	5,851	5,911	3,792
(B) Prince of Wales Island	2,156	1,709	2,311	2,164	1,882	1,931	1,831	2,055	1,639	2,513
(C) Kake, Petersburg, Wrangell, Stikine	2,230	3,500	2,269	2,288	3,410	3,373	2,454	3,447	4,054	3,602
(D) Sitka	3,033	3,121	3,152	3,507	2,990	3,213	3,958	3,422	2,980	4,303
(E) Juneau	9,136	11,587	10,854	11,205	12,417	11,277	13,000	14,532	11,668	13,949
(F) Haines/Skagway	1,359	1,044	1,256	1,632	1,538	903	1,039	1,239	1,258	1,607
(G) Glacier Bay	674	595	560	507	898	1,109	1,109	918	972	1,339
(H) Yakutat	232	203	237	113	307	110	83	191	274	399
(I) Upper Copper River drainage	1,355	1,431	1,300	1,113	1,416	1,262	826	1,324	609	1,087
(J) North Gulf Coast/Prince William Sound	5,601	5,311	5,448	5,535	4,967	7,310	4,946	4,792	4,407	5,913
(K) Knik Arm	30,143	29,937	29,912	29,343	27,699	32,348	33,423	31,422	30,764	28,235
(L) Anchorage	82,141	83,535	83,057	87,528	79,369	86,392	92,085	88,770	79,483	81,981
(M) Susitna River drainage	1,893	1,544	2,211	2,269	2,217	1,922	1,745	2,590	1,852	1,834
(N) West Cook Inlet drainages			22	64			59	135	190	155
(P) Kenai Peninsula/Cook Inlet	23,875	23,899	23,376	24,023	25,090	25,911	27,961	27,641	26,705	23,554
(Q) Kodiak	5,517	5,915	5,305	5,560	5,841	7,459	6,591	6,388	5,491	5,353
(R) Alaska Peninsula/Aleutian Islands	1,103	1,249	1,135	1,537	1,011	654	1,225	801	962	1,477
(S) Kvichak River drainage	98	18	337	133	128	178	106	130	196	284
(T) Nushagak, Wood River and Togiak	424	753	862	891	767	1,055	1,236	773	590	218
(U) Tanana River drainage	25,082	29,403	30,910	25,326	26,920	26,072	25,315	28,454	21,896	22,898
(V) Kuskokwim River/Kuskokwim Bay drainages	784	795	861	760	552	403	355	440	780	586
(W) Seward Peninsula/Norton Sound	1,251	1,249	984	1,143	1,138	1,384	864	936	673	679
(X) Northwest Alaska	443	816	438	570	460	494	320	769	384	32
(Y) Yukon River drainage	373	620	381	399	557	446	405	1,335	1,960	578
(Z) North Slope/Brooks Range	78	210	86	114	205	111	190	384	140	221
Unknown Alaska communities	3,087	2,791	2,691	1,040	997	608	293	918	1,068	854
Total residents	206,798	217,221	214,492	212,491	206,278	221,989	226,593	229,657	206,906	207,443
Nonresidents										
Other United States	253,521	210,715	212,862	215,050	210,716	227,266	227,879	240,077	243,616	244,375
Canada	7,022	6,523	6,501	7,017	7,389	7,293	7,158	6,478	5,798	5,514
Other foreign countries	9,940	8,297	8,243	9,346	9,443	9,388	8,840	9,231	8,304	8,004
Total nonresidents	270,483	225,535	227,606	231,413	227,548	243,947	243,877	255,786	257,718	257,893
Total	477,281	442,756	442,098	443,904	433,826	465,936	470,470	485,443	464,624	465,336

Note: Estimate includes the total number of licensed and unlicensed (under 16 years of age) anglers who actually participated in sportfishing in Alaska in the calendar year.

^a Residents in the Alaska Statewide Harvest Survey are defined as anglers qualifying for an Alaska resident sport license during the survey year.

Table 2.7.—Estimated number of anglers by region and area fished in Alaska, 2008–2017.

Area fished	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Southeast										
(A) Ketchikan	30,304	30,692	24,627	23,328	25,112	28,051	29,554	31,380	29,357	27,327
(B) Prince of Wales Island	17,694	14,071	14,825	14,852	15,725	15,610	16,874	19,174	17,827	17,260
(C) Kake, Petersburg, Wrangell, Stikine	9,761	9,597	9,055	7,165	10,065	11,577	9,610	13,659	12,471	11,655
(D) Sitka	28,483	21,216	22,013	20,583	21,350	22,244	24,122	23,765	25,647	26,917
(E) Juneau	24,497	25,967	21,583	24,804	22,927	23,918	25,197	28,773	22,706	25,291
(F1) Skagway	2,027	2,492	1,832	1,980	2,029	2,134	2,089	1,731	1,694	1,753
(F2) Haines	4,942	5,145	4,595	5,437	5,809	5,557	4,400	5,077	4,439	5,972
(G) Glacier Bay	13,060	11,432	9,392	8,121	8,978	11,513	11,094	13,362	10,280	12,144
(H) Yakutat	7,171	5,527	7,120	7,182	6,155	6,021	7,378	6,517	6,870	7,174
Southeast Total	129,308	115,914	107,053	106,057	109,571	115,578	121,438	132,866	122,098	126,288
Southcentral										
(J) North Gulf Coast/Prince William Sound	92,809	90,312	92,569	90,192	78,125	94,312	82,865	92,508	88,587	85,495
(K) Knik Arm	34,712	33,758	33,492	23,380	19,831	22,552	26,726	25,909	25,283	21,819
(L) Anchorage	25,738	22,397	19,629	14,830	13,091	15,790	18,765	19,210	15,737	16,230
(M) Susitna River drainage	45,084	39,978	40,383	36,897	31,105	33,920	31,662	32,794	31,040	28,655
(N) West Cook Inlet drainages	10,316	7,515	6,915	6,101	7,065	6,984	6,845	7,059	5,693	5,685
(PF) Kenai Peninsula freshwater	130,808	121,600	122,450	134,349	128,751	140,690	140,259	136,438	133,319	134,042
(PS) Cook Inlet saltwater	95,148	85,257	90,182	100,698	95,638	104,002	95,687	94,229	98,840	94,713
(Q) Kodiak	17,530	16,568	16,188	15,433	15,694	18,511	19,315	17,016	14,328	16,816
(R) Alaska Peninsula/Aleutian Islands	8,428	7,416	7,746	8,206	7,412	6,879	8,591	7,720	7,580	8,505
(S) Kvichak River drainage	7,393	6,325	6,410	6,203	6,066	6,587	5,747	6,142	6,167	6,096
(T) Nushagak, Wood River and Togiak	7,932	6,626	5,304	6,279	6,797	7,340	7,330	7,416	6,627	6,737
Southcentral Total	329,618	306,673	314,810	321,438	303,970	331,644	330,359	330,422	322,087	320,086
Arctic-Yukon-Kuskokwim										
(I) Upper Copper River drainage	13,618	12,601	14,517	11,057	10,582	10,951	10,659	11,757	9,081	10,156
(U) Tanana River drainage	20,285	23,737	24,238	19,849	21,812	21,532	19,966	24,313	21,105	21,108
(V) Kuskokwim River/Kuskokwim Bay drainages	4,231	3,507	3,979	4,172	3,891	4,126	3,124	3,830	4,233	3,838
(W) Seward Peninsula/Norton Sound	2,568	2,929	2,350	2,128	2,421	2,364	1,882	1,775	1,884	1,816
(X) Northwest Alaska	1,036	1,386	1,257	1,157	1,060	1,150	937	1,411	1,173	550
(Y) Yukon River drainage	2,552	3,041	3,280	2,648	2,600	3,303	3,240	3,297	2,351	2,734
(Z) North Slope/Brooks Range	1,254	1,178	970	882	1,371	881	1,181	1,048	1,011	722
Arctic-Yukon-Kuskokwim Total	42,491	44,059	46,260	37,949	40,427	40,743	37,843	42,897	37,883	38,146
Alaska Total	477,281	442,756	442,098	443,904	433,826	465,936	470,470	485,443	464,624	465,336

Note: Angler totals are not additive because some anglers may have fished in more than one area or region.

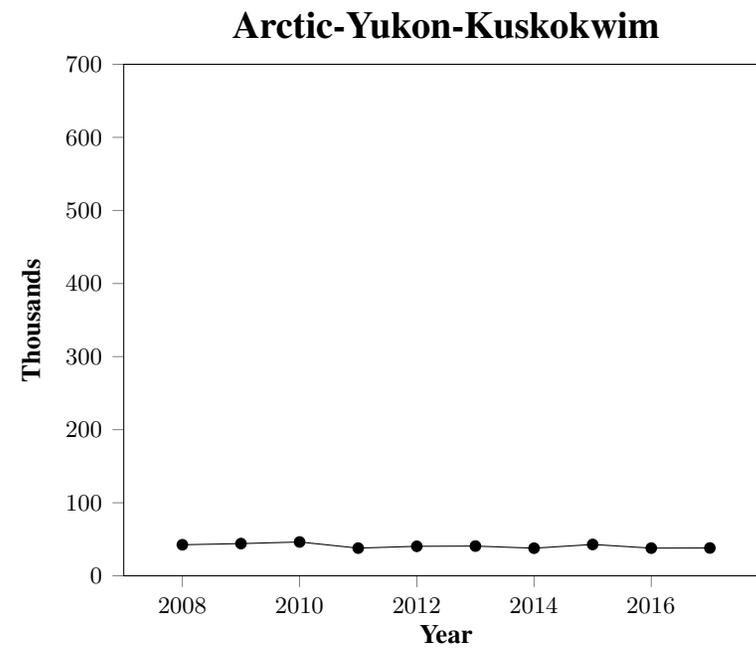
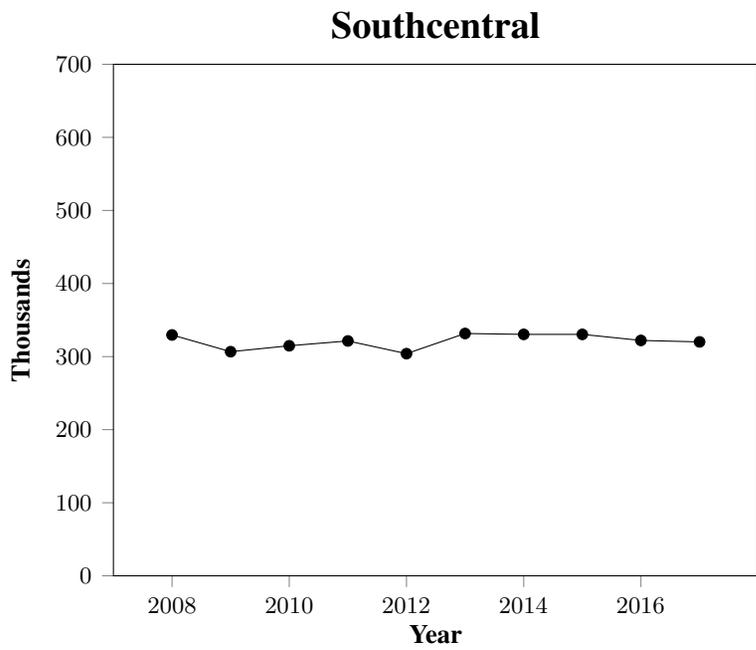
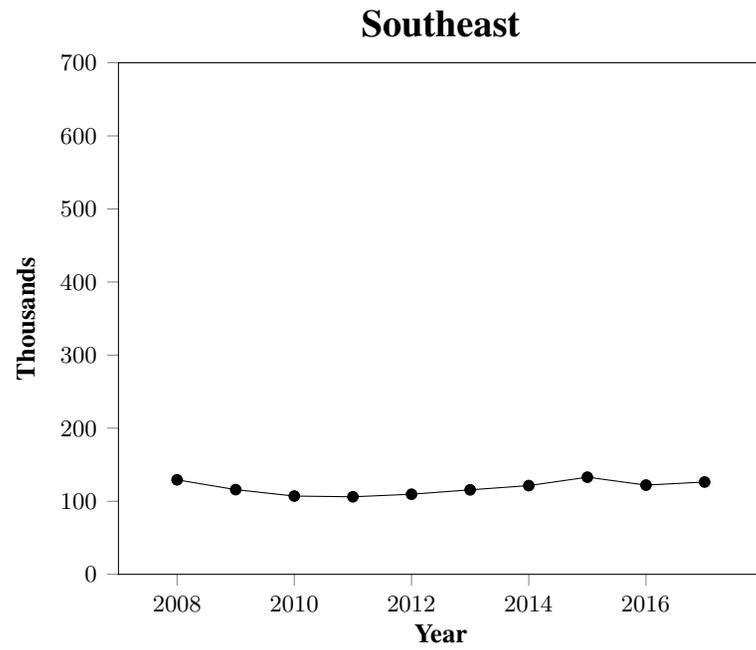
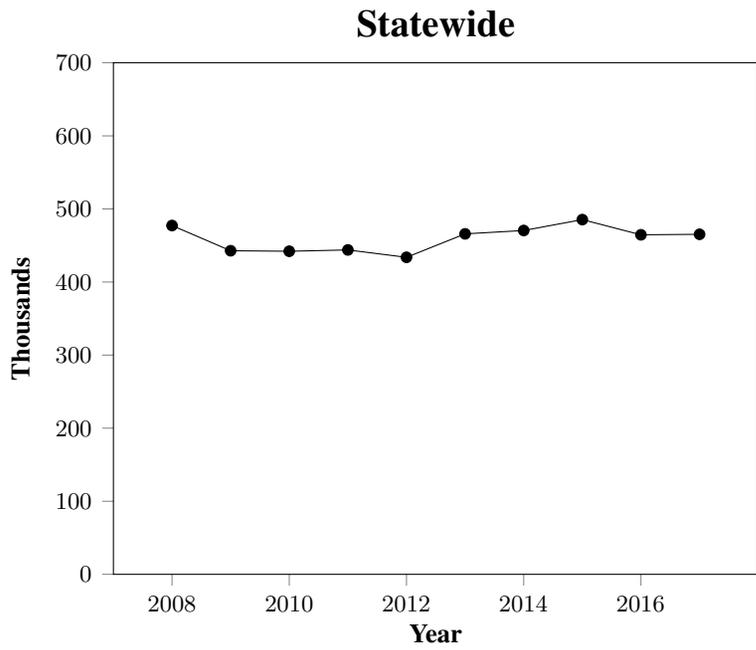


Figure 2.1.—Estimated number of anglers who fished in Alaska by region, 2008–2017.
Note: The estimated number of anglers is not additive across regions because an angler may have fished in more than one region.

Table 2.8.—Estimated number of days fished in Alaska by region and residency, 2008–2017.

Year	Region	Residents	%Residents	Nonresidents	%Nonresidents	Total
2008	Southeast Alaska	212,309	41.7	297,296	58.3	509,605
	Southcentral Alaska	1,013,723	62.5	609,165	37.5	1,622,888
	Arctic-Yukon-Kuskokwim	136,060	74.3	47,039	25.7	183,099
	Statewide	1,362,092	58.8	953,500	41.2	2,315,592
2009	Southeast Alaska	250,379	50.1	249,694	49.9	500,073
	Southcentral Alaska	1,007,014	66.1	515,330	33.9	1,522,344
	Arctic-Yukon-Kuskokwim	152,805	78.8	41,214	21.2	194,019
	Statewide	1,410,198	63.6	806,238	36.4	2,216,436
2010	Southeast Alaska	193,952	43.7	249,889	56.3	443,841
	Southcentral Alaska	823,444	60.0	548,012	40.0	1,371,456
	Arctic-Yukon-Kuskokwim	137,261	74.3	47,584	25.7	184,845
	Statewide	1,154,657	57.7	845,485	42.3	2,000,142
2011	Southeast Alaska	180,044	40.2	267,563	59.8	447,607
	Southcentral Alaska	761,925	57.4	565,025	42.6	1,326,950
	Arctic-Yukon-Kuskokwim	97,180	67.1	47,575	32.9	144,755
	Statewide	1,039,149	54.1	880,163	45.9	1,919,312
2012	Southeast Alaska	188,744	39.4	290,263	60.6	479,007
	Southcentral Alaska	686,880	54.9	565,383	45.1	1,252,263
	Arctic-Yukon-Kuskokwim	99,985	64.7	54,437	35.3	154,422
	Statewide	975,609	51.7	910,083	48.3	1,885,692
2013	Southeast Alaska	239,394	43.8	306,656	56.2	546,050
	Southcentral Alaska	912,714	61.3	575,669	38.7	1,488,383
	Arctic-Yukon-Kuskokwim	121,370	72.0	47,154	28.0	168,524
	Statewide	1,273,478	57.8	929,479	42.2	2,202,957
2014	Southeast Alaska	242,138	42.9	322,172	57.1	564,310
	Southcentral Alaska	977,061	62.2	594,587	37.8	1,571,648
	Arctic-Yukon-Kuskokwim	128,061	73.6	45,832	26.4	173,893
	Statewide	1,347,260	58.3	962,591	41.7	2,309,851
2015	Southeast Alaska	247,473	41.6	347,017	58.4	594,490
	Southcentral Alaska	904,058	61.5	566,323	38.5	1,470,381
	Arctic-Yukon-Kuskokwim	100,588	68.2	46,872	31.8	147,460
	Statewide	1,252,119	56.6	960,212	43.4	2,212,331
2016	Southeast Alaska	218,844	42.2	299,862	57.8	518,706
	Southcentral Alaska	771,181	58.7	543,487	41.3	1,314,668
	Arctic-Yukon-Kuskokwim	101,189	67.9	47,737	32.1	148,926
	Statewide	1,091,214	55.0	891,086	45.0	1,982,300
2017	Southeast Alaska	241,982	43.4	316,113	56.6	558,095
	Southcentral Alaska	725,326	55.3	587,260	44.7	1,312,586
	Arctic-Yukon-Kuskokwim	87,115	64.3	48,448	35.7	135,563
	Statewide	1,054,423	52.6	951,821	47.4	2,006,244

Table 2.9.—Estimated number of days fished in Alaska by region and area, 2008–2017.

Area fished	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Southeast										
(A) Ketchikan	88,425	113,959	73,372	70,926	68,696	107,493	103,591	95,979	83,969	86,810
(B) Prince of Wales Island	83,134	63,035	66,440	80,694	86,255	81,418	89,175	101,951	88,159	92,390
(C) Kake, Petersburg, Wrangell, Stikine	49,272	54,271	47,022	37,699	49,851	59,976	54,430	71,658	60,235	59,359
(D) Sitka	86,340	60,458	66,152	63,191	75,131	82,756	90,545	77,725	86,307	93,426
(E) Juneau	104,459	117,684	100,133	92,562	98,217	110,444	114,255	133,071	93,087	112,221
(F1) Skagway	3,370	5,938	4,955	5,732	5,605	5,963	3,800	3,260	7,237	5,729
(F2) Haines	20,106	16,739	19,187	25,720	24,753	22,005	24,343	25,996	16,372	21,423
(G) Glacier Bay	40,151	41,157	32,015	32,573	39,094	45,796	42,388	47,582	36,851	47,082
(H) Yakutat	34,348	26,832	34,565	38,510	31,405	30,199	41,783	37,268	46,489	39,655
Southeast Total	509,605	500,073	443,841	447,607	479,007	546,050	564,310	594,490	518,706	558,095
Southcentral										
(J) North Gulf Coast/Prince William Sound	262,356	268,736	235,846	238,423	194,248	256,232	250,656	246,949	222,651	213,532
(K) Knik Arm	136,339	122,055	106,100	66,206	58,431	75,494	97,513	85,238	83,088	73,463
(L) Anchorage	111,121	79,743	61,704	48,187	45,407	64,037	79,306	74,631	51,927	53,730
(M) Susitna River drainage	148,956	140,445	122,394	104,543	96,843	106,488	105,728	103,818	95,196	81,463
(N) West Cook Inlet drainages	16,627	13,752	12,780	10,088	10,682	12,380	12,041	11,459	11,614	7,967
(PF) Kenai Peninsula freshwater	529,990	502,778	469,530	478,502	476,249	547,079	600,437	562,231	497,344	502,242
(PS) Cook Inlet saltwater	174,963	166,275	167,797	168,214	168,040	192,745	196,037	185,388	181,843	185,501
(Q) Kodiak	102,043	96,952	81,459	84,429	85,406	116,192	110,985	102,894	80,070	100,330
(R) Alaska Peninsula/Aleutian Islands	39,738	42,319	38,932	36,201	35,974	30,867	40,991	35,389	33,186	32,716
(S) Kvichak River drainage	29,425	23,748	25,699	25,245	21,885	23,775	24,782	27,705	27,096	27,210
(T) Nushagak, Wood River and Togiak	34,667	30,393	23,429	37,076	33,754	33,042	40,359	29,399	27,864	31,711
Southcentral Total	1,622,888	1,522,344	1,371,456	1,326,950	1,252,263	1,488,383	1,571,648	1,470,381	1,314,668	1,312,586
Arctic-Yukon-Kuskokwim										
(I) Upper Copper River drainage	39,914	44,564	40,934	25,961	32,580	32,607	29,665	27,514	25,802	27,114
(U) Tanana River drainage	72,335	92,497	96,859	67,378	69,615	85,301	96,140	76,241	71,055	66,897
(V) Kuskokwim River/Kuskokwim Bay drainages	25,862	17,791	19,455	22,141	23,477	21,642	20,010	20,917	21,387	20,715
(W) Seward Peninsula/Norton Sound	21,995	17,223	10,610	11,390	10,052	11,437	7,660	7,580	14,298	8,225
(X) Northwest Alaska	4,421	7,431	3,469	4,663	4,970	4,175	3,860	4,003	4,564	1,882
(Y) Yukon River drainage	12,973	10,608	9,134	10,291	8,671	10,332	12,917	8,230	7,548	8,592
(Z) North Slope/Brooks Range	5,599	3,905	4,384	2,931	5,057	3,030	3,641	2,975	4,272	2,138
Arctic-Yukon-Kuskokwim Total	183,099	194,019	184,845	144,755	154,422	168,524	173,893	147,460	148,926	135,563
Alaska Total	2,315,592	2,216,436	2,000,142	1,919,312	1,885,692	2,202,957	2,309,851	2,212,331	1,982,300	2,006,244

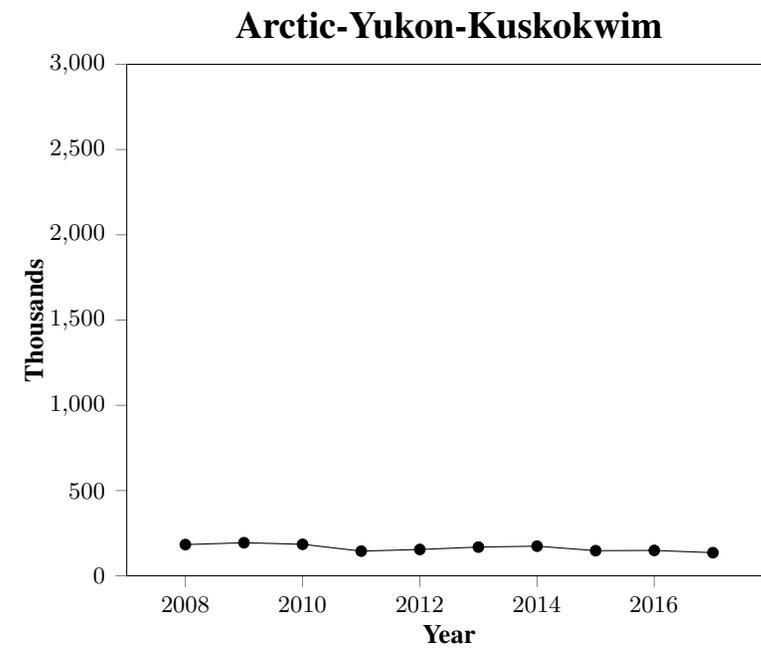
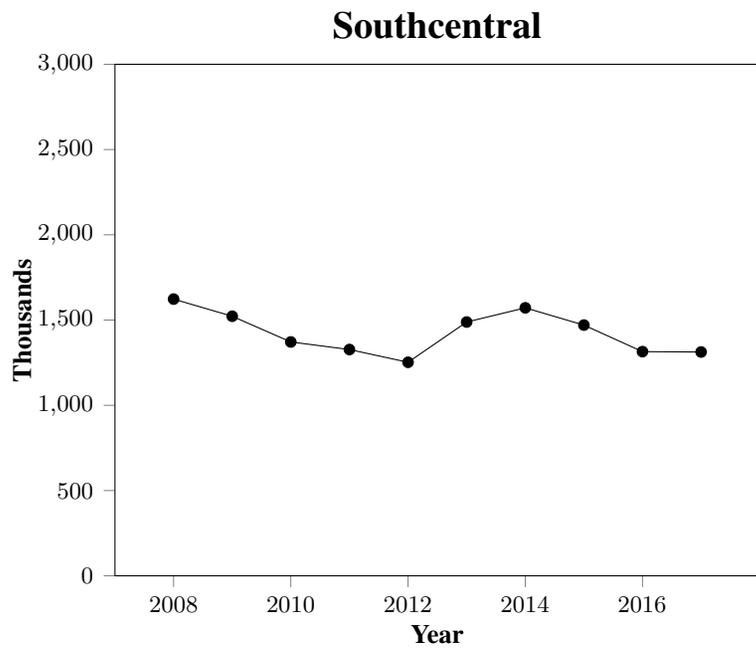
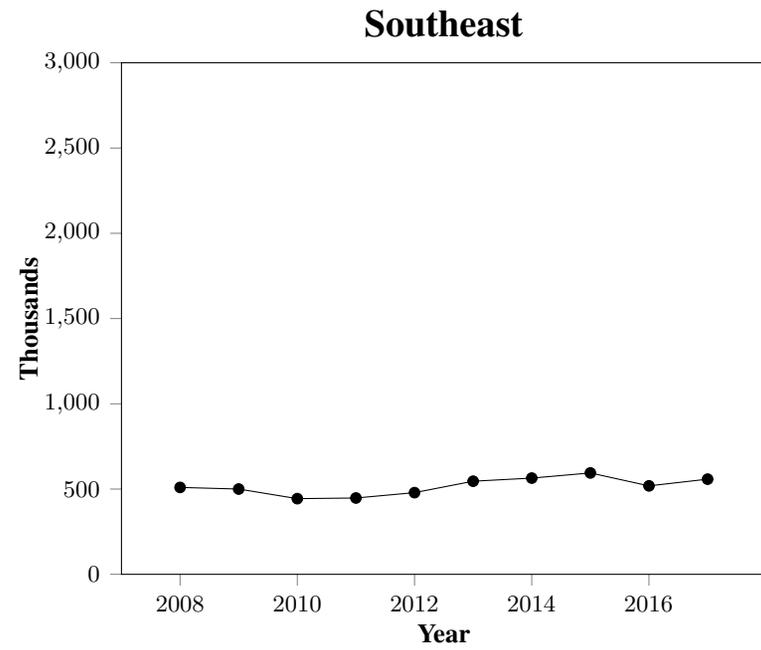
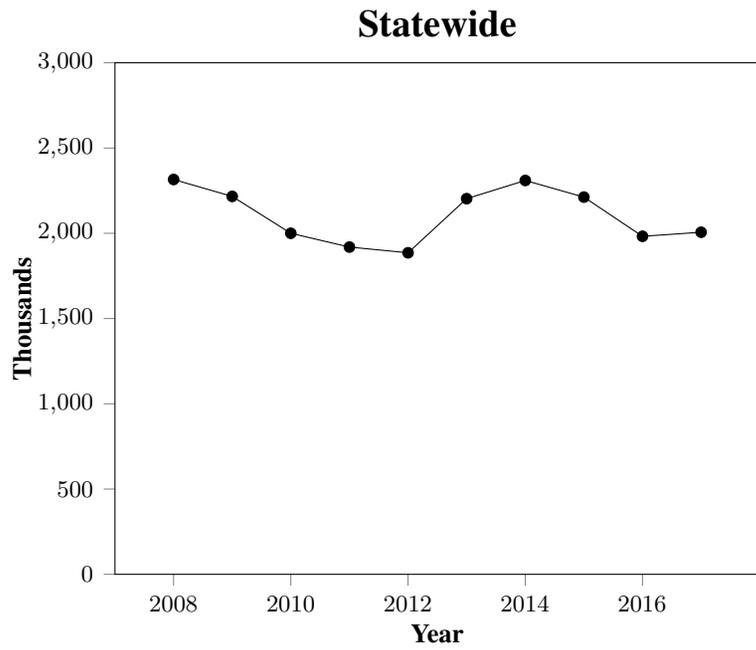


Figure 2.2.—Estimated number of days fished in Alaska by region, 2008–2017.

Table 2.10.—Alaska sport fish harvest estimates by species, 2008–2017.

Species	Harvest estimates									
	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Salmon species:										
Sea-run Chinook salmon	132,257	133,328	117,644	128,107	81,355	101,085	130,993	138,926	140,704	118,890
Sea-run coho salmon	676,375	665,000	565,944	575,303	429,229	698,469	630,068	734,188	424,562	665,800
Landlocked coho/Chinook salmon	10,433	8,153	8,849	2,838	5,286	4,531	13,447	4,736	10,362	9,135
Sockeye salmon	410,087	464,658	440,275	535,109	592,855	628,581	556,505	532,438	468,430	448,055
Kokanee salmon	8	110	0	0	0	14	36	0	0	16
Pink salmon	134,546	158,971	118,049	94,638	120,478	143,220	115,838	141,658	157,023	137,732
Chum salmon	20,791	31,695	19,084	29,058	18,151	38,530	19,233	20,218	16,451	18,197
Other species:										
Steelhead trout	269	382	91	133	382	181	134	121	65	234
Rainbow trout	49,159	35,976	38,941	32,098	29,942	40,589	37,722	62,812	53,461	41,839
Cutthroat trout	2,909	3,644	2,708	2,690	1,629	1,892	4,182	3,037	1,586	746
Brook trout	0	25	0	0	0	0	0	0	215	96
Lake trout	4,145	5,190	4,963	3,684	2,131	4,331	2,862	3,601	3,967	2,571
Dolly Varden/Arctic char	50,754	45,501	36,306	30,739	28,305	37,187	36,594	39,483	29,270	18,508
Arctic grayling	22,584	25,767	20,541	13,892	15,947	20,201	16,493	16,692	15,335	12,456
Northern pike	12,961	18,764	16,352	18,977	12,999	29,218	15,691	25,090	15,112	12,636
Whitefish	2,403	2,931	3,355	1,792	2,024	3,618	2,335	907	503	1,420
Burbot	4,618	5,853	6,265	2,336	4,352	4,225	3,563	3,138	3,104	2,136
Sheefish	797	1,340	1,064	633	215	393	469	1,317	768	181
Smelt	35,769	61,432	95,776	59,518	78,544	78,036	35,442	24,952	42,752	10,072
Pacific halibut	516,480	440,255	397,998	393,571	387,713	453,594	407,975	420,484	399,635	352,454
Rockfish	226,385	209,094	224,041	211,436	229,583	256,085	334,906	331,673	347,438	278,635
Lingcod	36,607	32,176	32,218	32,942	33,106	34,091	32,317	27,771	25,613	22,258
Pacific cod	24,777	36,290	36,552	47,883	41,927	37,792	60,704	58,189	43,516	19,837
Sablefish/black cod ^a			8,785	10,187	17,700	17,988	12,410	23,274	15,351	22,093
Shark	917	396	332	531	201	711	2,101	668	259	155
Other fish	7,668	9,693	13,772	13,127	12,520	16,226	12,826	13,559	14,011	12,375
Total fish	2,383,699	2,396,624	2,209,905	2,241,222	2,146,574	2,650,788	2,484,846	2,628,932	2,229,493	2,208,527

^a Information on sablefish (black cod) was first collected in 2010.

Table 2.11.—Alaska sport fish harvest estimate **standard errors** by species, 2008–2017.

Species	Harvest estimate standard errors									
	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Salmon species:										
Sea-run Chinook salmon	3,611	4,810	3,581	3,560	2,459	3,254	3,645	3,670	4,524	3,353
Sea-run coho salmon	12,390	11,319	10,504	11,445	9,350	13,465	11,894	13,684	9,363	13,276
Landlocked coho/Chinook salmon	2,103	1,363	2,087	488	1,117	863	2,706	935	4,837	1,772
Sockeye salmon	11,411	13,228	12,301	15,252	16,267	17,734	14,741	14,844	14,586	13,226
Kokanee salmon	8	69	0	0	0	13	21	0	0	17
Pink salmon	5,503	5,329	5,576	3,849	4,973	5,635	5,067	6,629	6,422	5,263
Chum salmon	2,394	1,922	1,432	1,735	1,320	3,314	1,606	1,485	1,257	1,209
Other species:										
Steelhead trout	96	117	30	57	119	61	67	53	30	94
Rainbow trout	3,231	2,610	2,278	2,531	2,480	3,577	2,870	5,847	5,684	3,707
Cutthroat trout	422	470	430	416	288	320	804	533	296	188
Brook trout	0	20	0	0	0	0	0	0	215	87
Lake trout	519	681	729	655	319	738	389	591	834	424
Dolly Varden/Arctic char	2,712	2,621	2,057	2,982	2,359	2,564	2,739	3,662	2,337	1,366
Arctic grayling	1,780	2,566	1,787	1,661	1,398	2,609	2,962	1,635	1,612	1,446
Northern pike	2,891	2,628	1,783	3,248	2,033	5,396	1,968	6,490	2,515	2,466
Whitefish	528	739	712	657	1,227	1,463	839	265	133	501
Burbot	877	1,351	1,072	430	1,655	869	1,112	763	673	536
Sheefish	281	441	376	187	61	140	170	574	287	67
Smelt	12,099	15,355	41,634	13,372	21,240	23,172	10,545	6,288	17,097	4,520
Pacific halibut	8,098	7,964	7,315	6,858	6,114	7,671	6,758	7,390	6,907	6,593
Rockfish	7,820	5,966	6,588	6,650	6,586	7,263	9,593	9,071	8,434	7,753
Lingcod	1,247	1,225	1,177	1,627	1,207	1,235	1,242	1,110	1,106	1,044
Pacific cod	1,670	2,653	2,402	3,048	3,284	2,479	3,734	3,992	3,141	1,627
Sablefish/black cod ^a			844	864	1,309	1,440	1,121	1,941	1,542	2,111
Shark	191	108	94	193	71	230	712	187	78	39
Other fish	2,091	1,130	3,445	2,856	2,405	1,976	1,946	2,604	1,894	2,742
Total fish	28,106	30,029	48,107	29,502	33,259	39,974	30,805	31,829	31,889	27,287

^a Information on sablefish (black cod) was first collected in 2010.

Table 2.12.—Alaska sport fish catch estimates by species, 2008–2017.

Species	Catch estimates									
	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Salmon species:										
Sea-run Chinook salmon	344,111	338,517	263,110	338,883	215,340	296,937	291,587	350,843	334,781	305,193
Sea-run coho salmon	1,064,168	1,024,256	860,906	897,214	672,572	1,044,257	957,056	1,144,544	654,690	978,533
Landlocked coho/Chinook salmon	26,640	32,193	21,782	9,407	13,102	16,890	38,441	10,461	24,860	26,963
Sockeye salmon	698,775	743,129	678,817	863,228	899,026	946,199	798,248	787,502	663,870	664,523
Kokanee salmon	36	2,411	0	0	0	471	96	392	0	211
Pink salmon	744,511	767,377	551,389	395,371	594,999	567,804	563,217	568,848	578,526	543,709
Chum salmon	164,555	176,270	148,493	187,256	159,841	180,059	128,771	168,273	113,126	124,410
Other species:										
Steelhead trout	42,990	17,605	12,499	11,558	19,202	10,155	12,613	20,259	14,464	18,564
Rainbow trout	748,589	727,545	646,523	651,443	530,500	630,899	632,581	829,553	679,080	645,227
Cutthroat trout	25,915	37,299	28,247	23,052	14,963	18,364	32,942	23,295	22,249	15,273
Brook trout	70	235	604	179	1,941	936	711	67	1,948	772
Lake trout	21,627	29,439	35,261	20,242	11,726	23,524	15,200	25,425	17,241	18,205
Dolly Varden/Arctic char	660,543	573,490	467,086	413,212	436,698	503,295	587,123	605,506	482,483	374,132
Arctic grayling	340,269	401,157	315,971	229,465	254,983	358,056	265,602	303,806	218,533	236,227
Northern pike	68,813	79,825	74,621	51,920	63,564	76,336	58,126	63,334	52,672	36,627
Whitefish	10,126	10,217	10,466	4,490	4,198	7,129	6,826	4,288	3,432	5,138
Burbot	6,893	9,710	10,951	3,580	5,734	5,246	5,041	5,589	5,507	2,509
Sheefish	2,557	7,573	4,608	2,776	1,050	1,253	1,981	2,666	2,855	589
Smelt	40,167	63,143	100,626	68,887	79,161	84,747	58,937	25,710	42,879	10,312
Pacific halibut	875,420	761,227	701,869	704,730	711,367	777,152	658,515	691,666	643,258	551,600
Rockfish	397,119	357,617	375,069	333,408	350,531	377,574	483,119	474,712	504,263	407,200
Lingcod	101,514	78,205	71,664	68,604	69,226	67,091	61,814	54,867	48,151	49,190
Pacific cod	63,744	99,615	117,934	123,581	91,895	85,412	133,620	133,166	86,722	43,504
Sablefish/black cod ^a			15,825	17,710	26,596	24,236	18,227	36,178	18,942	28,040
Shark	53,000	33,097	29,773	14,151	13,256	11,761	30,110	20,443	16,410	9,671
Other fish	24,833	39,262	40,995	51,492	46,858	71,561	45,606	46,382	46,874	29,149
Total fish	6,526,985	6,410,414	5,585,089	5,485,839	5,288,329	6,187,344	5,886,110	6,397,775	5,277,816	5,125,471

^a Information on sablefish (black cod) was first collected in 2010.

Table 2.13.—Alaska sport fish catch estimate **standard errors** by species, 2008–2017.

Species	Catch estimate standard errors									
	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Salmon species:										
Sea-run Chinook salmon	10,285	11,166	8,525	13,734	9,197	10,076	9,256	20,336	13,282	9,660
Sea-run coho salmon	20,866	20,283	17,933	20,173	17,338	26,609	20,404	33,111	17,828	23,723
Landlocked coho/Chinook salmon	3,610	5,362	3,633	1,791	2,290	2,970	8,238	1,766	12,609	4,692
Sockeye salmon	20,897	21,906	19,233	25,249	24,594	26,189	20,253	25,574	20,148	21,235
Kokanee salmon	29	1,767	0	0	0	413	71	377	0	202
Pink salmon	27,526	27,397	17,836	14,915	32,265	24,985	20,104	30,619	19,113	19,223
Chum salmon	9,401	8,769	8,778	11,815	8,844	10,781	7,473	13,641	8,869	6,886
Other species:										
Steelhead trout	4,654	2,131	1,350	2,365	2,496	1,246	1,652	2,936	2,219	2,792
Rainbow trout	32,088	24,584	23,984	30,743	29,236	24,991	23,817	41,243	29,404	36,720
Cutthroat trout	3,013	4,877	3,337	2,763	2,025	2,941	4,849	2,835	4,055	3,481
Brook trout	70	141	407	95	1,414	957	491	67	804	347
Lake trout	2,398	3,034	3,704	2,424	1,659	3,914	1,797	3,212	2,275	3,898
Dolly Varden/Arctic char	28,651	23,997	18,270	22,208	25,426	23,647	25,419	32,732	23,273	26,206
Arctic grayling	18,138	24,875	20,986	16,743	14,178	24,617	23,231	20,525	15,940	16,296
Northern pike	9,935	6,959	8,512	5,744	9,724	10,369	7,566	10,485	7,495	5,108
Whitefish	1,449	1,830	1,317	971	1,279	1,690	1,583	836	638	902
Burbot	1,129	2,364	2,372	603	1,818	961	1,230	1,590	1,477	579
Sheefish	766	2,902	1,941	785	289	307	609	1,015	908	224
Smelt	12,266	15,384	41,810	15,143	21,250	23,485	23,292	6,301	17,095	4,529
Pacific halibut	16,283	15,812	19,405	14,928	14,366	15,725	12,263	19,298	13,498	13,539
Rockfish	12,864	11,547	13,127	11,372	11,432	10,751	14,552	14,286	13,881	12,027
Lingcod	3,936	3,280	2,573	2,852	3,029	2,496	2,384	2,412	2,088	2,859
Pacific cod	4,180	5,548	10,722	7,084	5,939	5,089	8,053	9,764	6,108	3,545
Sablefish/black cod ^a			1,608	1,608	2,181	1,909	1,970	2,964	1,795	2,664
Shark	5,425	3,227	2,570	1,159	1,002	987	3,534	1,924	1,550	884
Other fish	2,809	7,162	4,631	6,055	4,593	12,692	5,548	4,632	4,229	3,341
Total fish	86,528	80,357	79,850	77,707	89,031	86,302	78,014	112,407	72,368	84,675

^a Information on sablefish (black cod) was first collected in 2010.

Table 2.14.—Southeast Alaska sport fish harvest estimates by species, 2008–2017.

Species	Harvest estimates									
	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Salmon species:										
Sea-run Chinook salmon	49,265	69,565	58,503	66,575	46,495	56,392	86,942	79,759	68,347	52,306
Sea-run coho salmon	230,707	254,752	186,303	235,857	207,526	339,585	292,572	302,553	232,657	331,387
Landlocked coho/Chinook salmon	404	1,962	2,696	150	410	0	710	61	299	184
Sockeye salmon	14,144	14,736	12,494	20,769	15,025	21,146	19,013	19,976	15,990	15,014
Kokanee salmon	8	110	0	0	0	14	36	0	0	16
Pink salmon	55,684	92,355	59,920	59,002	56,501	99,402	50,743	79,679	83,373	83,483
Chum salmon	8,834	21,615	8,036	20,843	9,084	22,737	9,450	10,930	9,071	9,386
Other species:										
Steelhead trout	116	134	46	24	202	46	107	8	21	124
Rainbow trout	1,029	1,107	873	284	376	839	558	778	438	677
Cutthroat trout	2,620	3,012	2,142	2,003	1,328	1,526	3,927	2,660	1,512	674
Brook trout	0	25	0	0	0	0	0	0	215	96
Lake trout	0	0	0	0	0	0	0	0	0	0
Dolly Varden/Arctic char	14,746	11,439	8,587	6,689	8,744	10,859	11,275	10,759	6,327	5,291
Arctic grayling	0	18	0	0	0	0	121	0	0	0
Northern pike	0	0	0	0	0	0	0	0	0	0
Whitefish	0	0	0	0	0	0	0	0	0	18
Burbot	0	0	0	0	0	0	0	0	0	0
Sheefish	0	0	0	0	0	0	0	0	0	0
Smelt	3,379	2,393	1,469	4,085	4,063	1,144	395	2,280	126	131
Pacific halibut	174,227	124,226	100,578	83,934	102,605	137,865	130,528	141,779	124,120	115,261
Rockfish	118,997	93,751	105,565	109,157	128,422	139,909	193,098	186,816	173,847	149,927
Lingcod	11,899	9,299	8,967	9,320	12,717	14,133	13,528	12,764	12,107	11,427
Pacific cod	9,553	11,527	9,292	12,361	10,877	10,631	20,323	20,912	12,333	6,679
Sablefish/black cod ^a			4,793	6,705	11,798	12,395	8,622	13,338	10,316	14,564
Shark	231	159	17	56	69	152	748	125	24	50
Other fish	4,165	4,561	8,163	3,101	2,733	6,229	5,036	5,523	5,614	7,366
Total fish	700,008	716,746	578,444	640,915	618,975	875,004	847,732	890,700	756,737	804,061

Note: Not all species listed may be found in a given watertype or region.

^a Information on sablefish (black cod) was first collected in 2010.

Table 2.15.—Southeast Alaska sport fish harvest estimate **standard errors** by species, 2008–2017.

Species	Harvest estimate standard errors									
	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Salmon species:										
Sea-run Chinook salmon	2,359	4,308	2,906	2,876	1,799	2,669	3,122	2,833	3,053	2,428
Sea-run coho salmon	7,725	6,830	5,975	7,587	7,051	10,449	8,687	8,901	7,435	9,700
Landlocked coho/Chinook salmon	339	766	1,670	94	268	0	566	45	174	139
Sockeye salmon	1,944	1,704	1,490	2,131	1,716	2,559	2,073	2,224	1,926	1,915
Kokanee salmon	8	69	0	0	0	13	21	0	0	17
Pink salmon	3,799	4,039	4,086	2,938	3,348	4,878	2,860	4,629	4,585	4,584
Chum salmon	935	1,357	668	1,484	899	2,078	866	1,155	773	810
Other species:										
Steelhead trout	53	44	21	14	62	21	64	9	16	68
Rainbow trout	263	344	223	103	158	266	293	245	198	220
Cutthroat trout	413	409	354	312	252	261	803	514	294	186
Brook trout	0	20	0	0	0	0	0	0	215	87
Lake trout	0	0	0	0	0	0	0	0	0	0
Dolly Varden/Arctic char	1,437	1,145	883	807	944	1,811	1,874	1,585	946	768
Arctic grayling	0	19	0	0	0	0	123	0	0	0
Northern pike	0	0	0	0	0	0	0	0	0	0
Whitefish	0	0	0	0	0	0	0	0	0	12
Burbot	0	0	0	0	0	0	0	0	0	0
Sheefish	0	0	0	0	0	0	0	0	0	0
Smelt	1,460	1,497	834	1,863	2,239	1,193	405	2,132	123	134
Pacific halibut	4,867	3,806	3,262	2,695	3,289	4,484	3,922	3,954	3,752	3,725
Rockfish	4,421	3,787	5,087	5,272	5,194	6,022	8,016	7,401	6,286	6,293
Lingcod	585	506	519	493	601	656	635	670	689	684
Pacific cod	1,054	1,359	1,577	1,794	1,254	1,300	1,966	2,298	1,588	730
Sablefish/black cod ^a			613	734	1,087	1,290	864	1,478	1,342	1,795
Shark	135	86	17	32	37	73	425	58	14	22
Other fish	1,954	813	3,226	696	797	1,405	1,395	2,171	907	2,616
Total fish	16,349	16,076	15,424	16,698	15,528	21,603	20,234	20,743	17,687	19,772

Note: Not all species listed may be found in a given watertype or region.

^a Information on sablefish (black cod) was first collected in 2010.

Table 2.16.—Southeast Alaska sport fish catch estimates by species, 2008–2017.

Species	Catch estimates									
	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Salmon species:										
Sea-run Chinook salmon	126,440	156,118	114,277	155,279	103,035	166,824	173,181	182,771	137,909	142,780
Sea-run coho salmon	311,350	360,121	272,564	345,717	295,937	485,851	408,015	431,701	308,511	429,500
Landlocked coho/Chinook salmon	2,099	4,885	4,932	581	510	0	1,967	61	484	764
Sockeye salmon	25,576	27,032	23,030	43,522	26,324	35,923	29,844	35,631	27,556	22,339
Kokanee salmon	36	2,411	0	0	0	471	96	392	0	211
Pink salmon	178,336	349,851	194,128	209,422	194,562	324,543	175,797	263,006	213,957	270,562
Chum salmon	36,254	58,877	33,698	56,029	33,942	57,942	29,775	35,917	37,600	32,560
Other species:										
Steelhead trout	26,321	10,171	8,119	8,288	15,330	6,163	5,330	11,676	7,780	10,887
Rainbow trout	12,502	9,290	9,731	6,703	7,391	9,005	12,827	11,579	5,169	7,048
Cutthroat trout	24,789	34,783	25,572	18,824	13,746	17,430	31,205	21,874	20,440	14,578
Brook trout	70	235	604	179	1,941	936	711	67	1,948	772
Lake trout	0	0	0	0	0	0	0	0	0	0
Dolly Varden/Arctic char	103,709	86,900	72,111	43,761	67,879	56,778	82,855	76,403	48,762	33,790
Arctic grayling	46	328	449	0	154	0	687	0	0	0
Northern pike	7	100	0	48	0	0	256	49	0	123
Whitefish	0	0	0	0	0	0	7	0	38	18
Burbot	0	0	0	0	0	0	0	0	0	0
Sheefish	0	0	0	0	0	0	0	0	0	0
Smelt	4,270	2,463	1,519	4,890	4,063	1,144	470	2,356	193	180
Pacific halibut	267,703	197,822	152,850	140,889	174,394	245,936	214,814	221,589	194,491	179,423
Rockfish	206,114	157,148	175,446	166,331	194,856	213,604	278,704	268,108	258,177	229,367
Lingcod	45,491	28,281	27,399	23,471	30,598	29,998	28,784	25,641	23,241	25,822
Pacific cod	16,013	21,478	20,766	20,154	15,848	20,426	37,507	34,238	21,538	12,542
Sablefish/black cod ^a			8,494	9,969	16,322	16,352	11,444	19,345	12,003	18,648
Shark	28,106	12,926	9,005	4,614	6,345	5,044	14,657	9,229	5,028	2,916
Other fish	10,744	16,919	17,551	15,614	12,074	29,838	13,997	14,702	14,690	14,398
Total fish	1,425,976	1,538,139	1,172,245	1,274,285	1,215,251	1,724,208	1,552,930	1,666,335	1,339,515	1,449,228

Note: Not all species listed may be found in a given watertype or region.

^a Information on sablefish (black cod) was first collected in 2010.

Table 2.17.—Southeast Alaska sport fish catch estimate **standard errors** by species, 2008–2017.

Species	Catch estimate standard errors									
	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Salmon species:										
Sea-run Chinook salmon	5,361	8,299	4,879	10,405	5,109	7,827	6,092	18,359	6,041	5,939
Sea-run coho salmon	10,568	11,794	10,221	12,725	12,107	22,265	13,755	26,267	11,420	14,190
Landlocked coho/Chinook salmon	904	2,333	2,288	313	309	0	1,124	45	224	447
Sockeye salmon	3,306	3,006	3,238	5,624	3,242	4,575	3,136	4,911	3,124	2,861
Kokanee salmon	29	1,767	0	0	0	413	71	377	0	202
Pink salmon	9,358	18,472	9,687	9,908	16,853	20,958	10,737	18,323	10,907	13,725
Chum salmon	3,046	3,299	4,062	3,861	2,865	3,751	3,108	3,056	3,944	2,398
Other species:										
Steelhead trout	3,498	1,442	1,222	2,246	2,423	1,026	928	2,126	1,367	2,230
Rainbow trout	2,225	1,263	2,348	1,410	1,416	2,745	3,442	1,971	935	1,215
Cutthroat trout	3,000	4,803	3,271	2,228	1,991	2,926	4,840	2,819	3,952	3,467
Brook trout	70	141	407	95	1,414	957	491	67	804	347
Lake trout	0	0	0	0	0	0	0	0	0	0
Dolly Varden/Arctic char	9,971	9,094	6,895	3,954	6,313	5,604	9,368	10,055	4,917	3,828
Arctic grayling	26	204	455	0	151	0	522	0	0	0
Northern pike	6	102	0	41	0	0	188	50	0	117
Whitefish	0	0	0	0	0	0	7	0	39	12
Burbot	0	0	0	0	0	0	0	0	0	0
Sheefish	0	0	0	0	0	0	0	0	0	0
Smelt	1,887	1,503	836	2,028	2,239	1,193	407	2,132	136	143
Pacific halibut	8,312	7,952	6,194	5,483	7,342	9,505	7,090	6,693	6,808	6,376
Rockfish	7,634	6,326	8,966	8,130	8,549	8,876	12,263	10,467	10,303	9,975
Lingcod	2,132	1,315	1,561	1,296	2,275	1,548	1,514	1,437	1,374	2,330
Pacific cod	1,962	2,194	4,222	2,189	1,545	2,400	3,284	3,007	2,403	1,309
Sablefish/black cod ^a			1,309	1,245	1,691	1,711	1,286	2,276	1,567	2,329
Shark	4,810	2,227	1,446	664	671	527	2,760	1,396	841	415
Other fish	2,393	5,717	3,679	2,686	2,144	11,727	2,496	2,697	1,875	2,846
Total fish	32,712	41,762	31,121	32,540	39,378	49,401	39,199	59,807	32,754	36,176

Note: Not all species listed may be found in a given watertype or region.

^a Information on sablefish (black cod) was first collected in 2010.

Table 2.18.—Southcentral Alaska sport fish harvest estimates by species, 2008–2017.

Species	Harvest estimates									
	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Salmon species:										
Sea-run Chinook salmon	77,334	59,855	55,291	57,511	33,348	44,091	43,120	57,811	71,829	64,655
Sea-run coho salmon	426,916	397,945	369,235	331,506	211,501	345,105	327,894	422,429	179,792	323,658
Landlocked coho/Chinook salmon	4,677	3,607	3,220	1,451	4,065	3,352	8,611	2,922	2,000	5,247
Sockeye salmon	383,143	436,113	412,559	505,893	553,759	580,309	518,732	502,470	443,557	421,801
Kokanee salmon	0	0	0	0	0	0	0	0	0	0
Pink salmon	70,328	64,974	55,332	35,070	60,570	41,973	60,401	60,220	64,596	53,253
Chum salmon	7,989	8,903	8,765	6,803	7,699	11,039	8,228	7,622	5,705	7,842
Other species:										
Steelhead trout	153	248	45	109	180	124	27	113	44	110
Rainbow trout	36,334	23,365	25,712	23,073	21,912	29,931	26,312	38,039	32,335	28,306
Cutthroat trout	289	632	566	687	301	366	255	377	74	72
Brook trout	0	0	0	0	0	0	0	0	0	0
Lake trout	3,089	2,892	2,963	2,790	1,189	2,761	1,965	2,344	2,442	1,479
Dolly Varden/Arctic char	26,024	22,081	20,612	16,143	14,352	19,569	20,732	24,916	13,542	9,258
Arctic grayling	6,251	5,663	5,740	4,235	3,613	4,917	3,316	4,636	3,583	2,568
Northern pike	9,270	12,919	11,093	16,943	8,580	24,778	11,024	21,930	11,867	10,540
Whitefish	1,176	1,183	994	708	161	556	687	383	71	40
Burbot	2,458	1,055	2,371	682	677	1,253	1,282	1,091	922	489
Sheefish	0	0	0	0	0	0	0	0	0	0
Smelt	32,086	58,592	94,307	55,433	73,360	76,722	35,047	22,672	42,102	9,941
Pacific halibut	342,253	316,029	297,420	309,637	285,093	315,729	277,414	278,705	275,515	237,193
Rockfish	107,388	115,343	118,476	102,279	101,161	116,176	141,808	144,857	173,591	128,708
Lingcod	24,708	22,877	23,251	23,622	20,389	19,958	18,789	15,007	13,506	10,831
Pacific cod	15,224	24,763	27,260	35,522	31,050	27,161	40,381	37,277	31,183	13,158
Sablefish/black cod ^a			3,992	3,482	5,902	5,593	3,788	9,936	5,035	7,529
Shark	686	237	315	475	132	559	1,353	543	235	105
Other fish	3,280	4,972	5,402	9,990	8,912	9,955	7,717	7,530	7,752	4,775
Total fish	1,581,056	1,584,248	1,544,921	1,544,044	1,447,906	1,681,977	1,558,883	1,663,830	1,381,278	1,341,558

Note: Not all species listed may be found in a given watertype or region.

^a Information on sablefish (black cod) was first collected in 2010.

Table 2.19.—Southcentral Alaska sport fish harvest estimate **standard errors** by species, 2008–2017.

Species	Harvest estimate standard errors									
	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Salmon species:										
Sea-run Chinook salmon	2,804	2,238	1,943	2,144	1,666	1,995	2,058	2,406	3,468	2,525
Sea-run coho salmon	10,002	9,153	9,095	8,815	6,441	8,553	8,878	11,233	5,664	9,223
Landlocked coho/Chinook salmon	873	932	1,014	392	1,043	755	2,249	753	596	1,493
Sockeye salmon	11,177	12,931	12,139	15,070	15,708	17,098	14,258	14,626	14,455	13,106
Kokanee salmon	0	0	0	0	0	0	0	0	0	0
Pink salmon	3,681	3,546	3,735	2,649	3,511	2,940	3,674	4,723	3,672	2,868
Chum salmon	997	1,231	1,086	772	919	1,836	1,281	808	859	840
Other species:										
Steelhead trout	82	108	20	55	102	56	16	52	25	67
Rainbow trout	2,836	2,073	1,813	2,001	2,175	3,195	2,210	3,249	4,435	2,605
Cutthroat trout	97	248	259	280	135	185	105	174	34	47
Brook trout	0	0	0	0	0	0	0	0	0	0
Lake trout	478	518	508	616	225	640	329	519	767	338
Dolly Varden/Arctic char	1,831	1,704	1,591	1,517	2,091	1,563	1,894	3,233	1,429	899
Arctic grayling	835	998	1,052	731	581	827	595	797	723	496
Northern pike	2,800	2,376	1,626	3,228	1,850	5,309	1,655	6,475	2,397	2,365
Whitefish	404	604	375	470	77	213	337	136	27	20
Burbot	745	292	701	183	238	336	503	353	318	160
Sheefish	0	0	0	0	0	0	0	0	0	0
Smelt	11,975	15,268	41,624	13,247	21,139	23,185	10,540	5,931	17,083	4,516
Pacific halibut	6,914	7,033	6,781	6,344	5,250	6,411	5,687	6,445	5,911	5,497
Rockfish	6,269	4,629	4,455	4,103	4,055	4,045	5,085	5,257	5,833	4,616
Lingcod	1,085	1,132	1,054	1,560	1,055	1,067	1,044	886	849	794
Pacific cod	1,271	2,257	1,836	2,503	3,063	2,141	3,153	3,226	2,683	1,486
Sablefish/black cod ^a			567	462	785	678	708	1,256	745	1,126
Shark	134	65	93	191	62	219	600	180	76	32
Other fish	611	775	968	2,753	2,179	1,372	1,310	1,408	1,599	945
Total fish	24,660	26,260	46,650	25,933	30,395	34,372	24,565	26,088	27,129	20,784

Note: Not all species listed may be found in a given watertype or region.

^a Information on sablefish (black cod) was first collected in 2010.

Table 2.20.—Southcentral Alaska sport fish catch estimates by species, 2008–2017.

Species	Catch estimates									
	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Salmon species:										
Sea-run Chinook salmon	197,108	167,064	131,151	160,229	101,878	122,302	114,392	159,359	188,325	148,926
Sea-run coho salmon	676,025	615,212	542,939	499,082	327,868	500,858	496,036	641,966	277,250	471,945
Landlocked coho/Chinook salmon	14,948	17,959	9,286	5,836	7,337	12,943	21,885	7,077	5,013	17,442
Sockeye salmon	645,904	692,568	628,567	799,417	837,497	868,205	735,550	730,388	620,642	618,956
Kokanee salmon	0	0	0	0	0	0	0	0	0	0
Pink salmon	504,833	407,679	336,879	181,618	381,623	237,737	369,778	296,817	322,895	261,421
Chum salmon	95,171	95,833	89,890	105,324	97,642	86,840	78,770	109,319	60,402	76,588
Other species:										
Steelhead trout	16,608	7,414	4,296	3,270	3,872	3,934	7,283	8,583	6,684	7,658
Rainbow trout	629,653	618,940	542,122	563,852	455,917	543,927	541,374	717,050	577,522	551,221
Cutthroat trout	1,126	2,516	2,675	4,228	1,217	934	1,737	1,421	1,809	695
Brook trout	0	0	0	0	0	0	0	0	0	0
Lake trout	14,305	17,087	23,098	15,781	6,695	17,760	10,868	15,789	9,587	8,274
Dolly Varden/Arctic char	437,714	392,445	317,300	281,262	271,434	338,714	406,585	448,371	346,918	250,941
Arctic grayling	102,547	94,860	81,335	71,174	70,719	108,999	83,479	115,344	54,209	69,141
Northern pike	43,530	42,500	36,812	28,080	24,804	46,153	21,088	33,521	19,857	16,453
Whitefish	5,379	4,127	5,245	1,871	1,804	2,815	3,222	2,715	1,498	2,938
Burbot	4,117	2,134	5,179	1,454	1,267	1,535	2,279	2,442	1,479	579
Sheefish	0	0	0	0	0	0	0	0	0	0
Smelt	34,970	60,028	98,923	63,997	73,977	83,433	58,467	23,347	42,162	10,132
Pacific halibut	607,717	563,405	549,019	563,841	536,958	531,216	443,668	470,077	448,767	372,177
Rockfish	191,005	200,469	199,623	167,077	155,675	163,970	204,415	206,604	246,086	177,833
Lingcod	56,023	49,924	44,265	45,133	38,628	37,073	33,030	29,226	24,910	23,368
Pacific cod	47,731	78,124	97,168	103,427	76,047	64,986	96,113	98,928	65,184	30,962
Sablefish/black cod ^a			7,331	7,741	10,274	7,884	6,783	16,833	6,939	9,392
Shark	24,894	20,171	20,768	9,537	6,911	6,717	15,453	11,214	11,382	6,755
Other fish	13,360	21,604	21,701	35,763	33,752	41,511	31,412	30,697	28,638	14,207
Total fish	4,364,668	4,172,063	3,795,572	3,718,994	3,523,796	3,830,446	3,783,667	4,177,088	3,368,158	3,148,004

Note: Not all species listed may be found in a given watertype or region.

^a Information on sablefish (black cod) was first collected in 2010.

Table 2.21.—Southcentral Alaska sport fish catch estimate **standard errors** by species, 2008–2017.

Species	Catch estimate standard errors									
	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Salmon species:										
Sea-run Chinook salmon	8,710	7,636	6,613	8,540	7,467	6,324	6,817	9,852	12,015	7,216
Sea-run coho salmon	16,631	15,559	14,617	14,205	11,064	13,229	14,860	19,200	11,681	15,155
Landlocked coho/Chinook salmon	2,526	4,268	2,164	1,668	1,468	2,676	4,724	1,573	1,043	4,134
Sockeye salmon	20,405	21,524	18,907	24,387	23,978	25,338	19,491	24,899	19,936	21,207
Kokanee salmon	0	0	0	0	0	0	0	0	0	0
Pink salmon	22,972	20,115	14,820	11,367	26,996	12,900	16,600	24,895	14,947	13,620
Chum salmon	7,457	7,023	7,007	10,804	6,771	7,593	5,556	12,591	7,242	5,876
Other species:										
Steelhead trout	3,166	1,620	621	907	714	708	1,378	2,023	1,708	1,708
Rainbow trout	30,460	22,990	20,877	29,368	28,202	23,385	21,835	39,237	27,846	35,704
Cutthroat trout	381	770	766	1,626	340	396	610	474	725	310
Brook trout	0	0	0	0	0	0	0	0	0	0
Lake trout	1,841	2,454	2,928	2,240	1,424	3,710	1,548	2,619	1,781	1,316
Dolly Varden/Arctic char	22,803	20,171	13,902	17,530	21,622	18,431	21,076	29,236	19,478	21,914
Arctic grayling	8,822	7,303	7,888	5,856	6,641	9,904	10,389	14,155	4,984	7,405
Northern pike	9,282	5,262	7,390	4,276	4,574	7,641	2,680	8,668	2,884	2,678
Whitefish	865	800	747	526	341	552	699	684	340	662
Burbot	975	519	2,083	357	427	379	666	1,045	438	171
Sheefish	0	0	0	0	0	0	0	0	0	0
Smelt	12,114	15,285	41,795	14,988	21,149	23,502	23,290	5,943	17,083	4,525
Pacific halibut	14,277	13,955	18,912	13,789	12,462	12,844	10,433	18,294	11,621	11,927
Rockfish	10,146	9,556	9,835	7,665	8,069	5,896	7,877	9,648	9,505	7,039
Lingcod	3,325	3,031	2,058	2,522	2,084	1,980	1,814	1,923	1,520	1,848
Pacific cod	3,681	4,996	9,872	6,741	5,795	4,518	7,366	9,286	5,632	3,305
Sablefish/black cod ^a			923	1,037	1,437	872	1,511	1,819	909	1,388
Shark	2,484	2,270	2,231	972	718	845	2,275	1,263	1,271	793
Other fish	1,431	4,265	2,647	5,537	4,072	4,619	4,782	3,808	3,332	1,786
Total fish	72,302	65,380	69,871	68,027	75,508	64,338	62,487	96,563	60,600	70,496

Note: Not all species listed may be found in a given watertype or region.

^a Information on sablefish (black cod) was first collected in 2010.

Table 2.22.—Arctic-Yukon-Kuskokwim Alaska sport fish harvest estimates by species, 2008–2017.

Species	Harvest estimates									
	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Salmon species:										
Sea-run Chinook salmon	5,658	3,908	3,850	4,021	1,512	602	931	1,356	528	1,929
Sea-run coho salmon	18,752	12,303	10,406	7,940	10,202	13,779	9,602	9,206	12,113	10,755
Landlocked coho/Chinook salmon	5,352	2,584	2,933	1,237	811	1,179	4,126	1,753	8,063	3,704
Sockeye salmon	12,800	13,809	15,222	8,447	24,071	27,126	18,760	9,992	8,883	11,240
Kokanee salmon	0	0	0	0	0	0	0	0	0	0
Pink salmon	8,534	1,642	2,797	566	3,407	1,845	4,694	1,759	9,054	996
Chum salmon	3,968	1,177	2,283	1,412	1,368	4,754	1,555	1,666	1,675	969
Other species:										
Steelhead trout	0	0	0	0	0	11	0	0	0	0
Rainbow trout	11,796	11,504	12,356	8,741	7,654	9,819	10,852	23,995	20,688	12,856
Cutthroat trout	0	0	0	0	0	0	0	0	0	0
Brook trout	0	0	0	0	0	0	0	0	0	0
Lake trout	1,056	2,298	2,000	894	942	1,570	897	1,257	1,525	1,092
Dolly Varden/Arctic char	9,984	11,981	7,107	7,907	5,209	6,759	4,587	3,808	9,401	3,959
Arctic grayling	16,333	20,086	14,801	9,657	12,334	15,284	13,056	12,056	11,752	9,888
Northern pike	3,691	5,845	5,259	2,034	4,419	4,440	4,667	3,160	3,245	2,096
Whitefish	1,227	1,748	2,361	1,084	1,863	3,062	1,648	524	432	1,362
Burbot	2,160	4,798	3,894	1,654	3,675	2,972	2,281	2,047	2,182	1,647
Sheefish	797	1,340	1,064	633	215	393	469	1,317	768	181
Smelt	304	447	0	0	1,121	170	0	0	524	0
Pacific halibut	0	0	0	0	15	0	33	0	0	0
Rockfish	0	0	0	0	0	0	0	0	0	0
Lingcod	0	0	0	0	0	0	0	0	0	0
Pacific cod	0	0	0	0	0	0	0	0	0	0
Sablefish/black cod ^a			0	0	0	0	0	0	0	0
Shark	0	0	0	0	0	0	0	0	0	0
Other fish	223	160	207	36	875	42	73	506	645	234
Total fish	102,635	95,630	86,540	56,263	79,693	93,807	78,231	74,402	91,478	62,908

Note: Not all species listed may be found in a given watertype or region.

^a Information on sablefish (black cod) was first collected in 2010.

Table 2.23.—Arctic-Yukon-Kuskokwim Alaska sport fish harvest estimate **standard errors** by species, 2008–2017.

Species	Harvest estimate standard errors									
	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Salmon species:										
Sea-run Chinook salmon	705	649	434	566	374	163	187	227	149	252
Sea-run coho salmon	2,074	1,649	1,539	1,003	1,525	2,427	1,461	1,905	1,730	2,324
Landlocked coho/Chinook salmon	1,877	682	814	277	313	413	1,442	561	4,809	910
Sockeye salmon	1,903	2,014	2,154	1,536	3,874	3,515	3,835	1,877	1,775	2,219
Kokanee salmon	0	0	0	0	0	0	0	0	0	0
Pink salmon	1,935	541	1,126	250	910	898	1,924	531	2,568	421
Chum salmon	1,999	311	653	391	383	1,543	515	498	432	345
Other species:										
Steelhead trout	0	0	0	0	0	11	0	0	0	0
Rainbow trout	1,500	1,490	1,355	1,516	1,202	1,651	1,656	4,937	3,455	2,489
Cutthroat trout	0	0	0	0	0	0	0	0	0	0
Brook trout	0	0	0	0	0	0	0	0	0	0
Lake trout	193	462	536	223	235	375	214	260	325	241
Dolly Varden/Arctic char	1,484	1,684	959	2,397	765	1,100	736	706	1,546	756
Arctic grayling	1,570	2,391	1,459	1,480	1,280	2,506	2,941	1,407	1,417	1,343
Northern pike	751	1,038	741	330	902	852	1,037	495	724	539
Whitefish	328	427	613	464	1,226	1,444	769	216	131	501
Burbot	450	1,315	831	387	1,648	799	990	679	575	505
Sheefish	281	441	376	187	61	140	170	574	287	67
Smelt	304	372	0	0	1,014	178	0	0	550	0
Pacific halibut	0	0	0	0	15	0	34	0	0	0
Rockfish	0	0	0	0	0	0	0	0	0	0
Lingcod	0	0	0	0	0	0	0	0	0	0
Pacific cod	0	0	0	0	0	0	0	0	0	0
Sablefish/black cod ^a			0	0	0	0	0	0	0	0
Shark	0	0	0	0	0	0	0	0	0	0
Other fish	136	71	83	20	677	31	70	249	500	117
Total fish	6,248	5,789	4,705	4,621	5,722	7,046	6,687	6,140	8,067	5,129

Note: Not all species listed may be found in a given watertype or region.

^a Information on sablefish (black cod) was first collected in 2010.

Table 2.24.—Arctic-Yukon-Kuskokwim Alaska sport fish catch estimates by species, 2008–2017.

Species	Catch estimates									
	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Salmon species:										
Sea-run Chinook salmon	20,563	15,335	17,682	23,375	10,427	7,811	4,014	8,713	8,547	13,487
Sea-run coho salmon	76,793	48,923	45,403	52,415	48,767	57,548	53,005	70,877	68,929	77,088
Landlocked coho/Chinook salmon	9,593	9,349	7,564	2,990	5,255	3,947	14,589	3,323	19,363	8,757
Sockeye salmon	27,295	23,529	27,220	20,289	35,205	42,071	32,854	21,483	15,672	23,228
Kokanee salmon	0	0	0	0	0	0	0	0	0	0
Pink salmon	61,342	9,847	20,382	4,331	18,814	5,524	17,642	9,025	41,674	11,726
Chum salmon	33,130	21,560	24,905	25,903	28,257	35,277	20,226	23,037	15,124	15,262
Other species:										
Steelhead trout	61	20	84	0	0	58	0	0	0	19
Rainbow trout	106,434	99,315	94,670	80,888	67,192	77,967	78,380	100,924	96,389	86,958
Cutthroat trout	0	0	0	0	0	0	0	0	0	0
Brook trout	0	0	0	0	0	0	0	0	0	0
Lake trout	7,322	12,352	12,163	4,461	5,031	5,764	4,332	9,636	7,654	9,931
Dolly Varden/Arctic char	119,120	94,145	77,675	88,189	97,385	107,803	97,683	80,732	86,803	89,401
Arctic grayling	237,676	305,969	234,187	158,291	184,110	249,057	181,436	188,462	164,324	167,086
Northern pike	25,276	37,225	37,809	23,792	38,760	30,183	36,782	29,764	32,815	20,051
Whitefish	4,747	6,090	5,221	2,619	2,394	4,314	3,597	1,573	1,896	2,182
Burbot	2,776	7,576	5,772	2,126	4,467	3,711	2,762	3,147	4,028	1,930
Sheefish	2,557	7,573	4,608	2,776	1,050	1,253	1,981	2,666	2,855	589
Smelt	927	652	184	0	1,121	170	0	7	524	0
Pacific halibut	0	0	0	0	15	0	33	0	0	0
Rockfish	0	0	0	0	0	0	0	0	0	0
Lingcod	0	0	0	0	0	20	0	0	0	0
Pacific cod	0	13	0	0	0	0	0	0	0	0
Sablefish/black cod ^a			0	0	0	0	0	0	0	0
Shark	0	0	0	0	0	0	0	0	0	0
Other fish	729	739	1,743	115	1,032	212	197	983	3,546	544
Total fish	736,341	700,212	617,272	492,560	549,282	632,690	549,513	554,352	570,143	528,239

Note: Not all species listed may be found in a given watertype or region.

^a Information on sablefish (black cod) was first collected in 2010.

Table 2.25.—Arctic-Yukon-Kuskokwim Alaska sport fish catch estimate **standard errors** by species, 2008–2017.

Species	Catch estimate standard errors									
	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Salmon species:										
Sea-run Chinook salmon	2,527	1,838	2,052	3,292	1,968	1,615	690	1,832	1,635	2,580
Sea-run coho salmon	7,565	5,285	5,754	7,754	6,787	7,151	7,130	9,838	8,173	11,730
Landlocked coho/Chinook salmon	2,208	2,581	1,874	614	1,726	1,234	6,626	820	12,566	1,993
Sockeye salmon	3,720	3,036	3,064	3,661	4,646	4,962	4,914	5,097	2,375	3,906
Kokanee salmon	0	0	0	0	0	0	0	0	0	0
Pink salmon	11,649	2,311	3,082	988	3,071	1,326	3,116	1,906	7,621	2,547
Chum salmon	4,557	3,530	3,476	3,903	4,979	6,902	3,838	4,774	2,358	2,430
Other species:										
Steelhead trout	29	12	59	0	0	44	0	0	0	19
Rainbow trout	9,877	9,161	11,018	8,050	8,319	9,068	8,096	10,896	9,952	8,804
Cutthroat trout	0	0	0	0	0	0	0	0	0	0
Brook trout	0	0	0	0	0	0	0	0	0	0
Lake trout	1,541	1,807	2,228	887	850	1,253	914	1,861	1,397	3,708
Dolly Varden/Arctic char	13,824	9,568	9,545	13,061	11,685	14,736	12,212	11,336	11,310	13,268
Arctic grayling	15,828	23,433	19,503	15,722	12,395	22,554	21,044	14,590	15,025	14,762
Northern pike	3,460	4,338	4,265	3,874	8,609	6,646	7,169	6,180	6,956	4,401
Whitefish	1,151	1,660	1,102	817	1,231	1,579	1,431	494	557	620
Burbot	562	2,306	1,251	485	1,783	877	1,026	1,161	1,430	546
Sheefish	766	2,902	1,941	785	289	307	609	1,015	908	224
Smelt	686	406	181	0	1,014	178	0	7	550	0
Pacific halibut	0	0	0	0	15	0	34	0	0	0
Rockfish	0	0	0	0	0	0	0	0	0	0
Lingcod	0	0	0	0	0	20	0	0	0	0
Pacific cod	0	12	0	0	0	0	0	0	0	0
Sablefish/black cod ^a			0	0	0	0	0	0	0	0
Shark	0	0	0	0	0	0	0	0	0	0
Other fish	244	274	675	49	764	79	131	353	1,948	220
Total fish	38,984	35,761	34,874	32,578	31,780	40,711	37,202	33,196	34,071	33,843

Note: Not all species listed may be found in a given watertype or region.

^a Information on sablefish (black cod) was first collected in 2010.

Table 2.26.—Alaska sport fish saltwater harvest estimates by species, 2008–2017.

Species	Harvest estimates									
	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Salmon species:										
Sea-run Chinook salmon	70,776	88,962	77,706	84,863	62,864	80,788	110,832	110,503	100,904	84,997
Sea-run coho salmon	403,688	418,353	349,864	386,397	263,466	492,638	389,501	479,161	263,318	467,987
Landlocked coho/Chinook salmon	0	0	0	0	0	0	0	0	0	0
Sockeye salmon	29,357	34,151	27,876	31,451	27,877	40,337	34,892	32,554	34,453	35,784
Kokanee salmon	0	0	0	0	0	0	0	0	0	0
Pink salmon	88,434	116,893	82,140	72,457	78,188	113,022	69,164	110,004	103,444	101,584
Chum salmon	11,603	22,499	11,191	21,419	10,647	25,313	11,571	13,355	10,322	10,307
Other species:										
Steelhead trout	117	142	32	80	103	78	50	84	50	161
Rainbow trout	0	0	0	0	0	0	0	0	0	0
Cutthroat trout	267	697	673	435	302	270	658	347	412	28
Brook trout	0	0	0	0	0	0	0	0	0	0
Lake trout	0	0	0	0	0	0	0	0	0	0
Dolly Varden/Arctic char	10,117	7,815	6,698	4,083	5,250	7,309	6,354	10,082	3,881	3,606
Arctic grayling	113	0	0	0	0	0	0	0	0	0
Northern pike	0	0	0	0	0	0	0	0	0	0
Whitefish	0	241	0	0	0	0	0	0	0	0
Burbot	0	0	0	0	0	0	0	0	0	0
Sheefish	61	170	288	128	0	20	93	822	403	0
Smelt	26,433	33,009	76,509	43,193	60,047	43,621	15,820	15,635	38,272	9,282
Pacific halibut	516,480	440,255	397,998	393,571	387,713	453,594	407,975	420,484	399,635	352,454
Rockfish	226,385	209,094	224,041	211,436	229,583	256,085	334,906	331,673	347,438	278,635
Lingcod	36,607	32,176	32,218	32,942	33,106	34,091	32,317	27,771	25,613	22,258
Pacific cod	24,777	36,290	36,552	47,883	41,927	37,792	60,704	58,189	43,516	19,837
Sablefish/black cod ^a			8,785	10,187	17,700	17,988	12,410	23,274	15,351	22,093
Shark	917	396	332	531	201	711	2,101	668	259	155
Other fish	7,218	8,539	12,617	10,321	8,655	13,770	10,712	10,916	12,267	9,476
Total fish	1,453,350	1,449,682	1,345,520	1,351,377	1,227,629	1,617,427	1,500,060	1,645,522	1,399,538	1,418,644

Note: Not all species listed may be found in a given watertype or region.

^a Information on sablefish (black cod) was first collected in 2010.

Table 2.27.—Alaska sport fish saltwater harvest estimate **standard errors** by species, 2008–2017.

Species	Harvest estimate standard errors									
	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Salmon species:										
Sea-run Chinook salmon	3,137	4,516	3,218	3,178	2,142	3,050	3,484	3,281	4,009	2,969
Sea-run coho salmon	10,262	8,995	8,582	10,170	7,455	12,471	9,724	11,111	7,692	11,612
Landlocked coho/Chinook salmon	0	0	0	0	0	0	0	0	0	0
Sockeye salmon	2,555	2,981	2,779	3,155	2,687	3,692	3,497	2,960	3,426	3,234
Kokanee salmon	0	0	0	0	0	0	0	0	0	0
Pink salmon	4,652	4,566	4,941	3,497	3,998	5,064	3,762	5,807	5,161	4,499
Chum salmon	1,219	1,388	1,167	1,492	1,000	2,146	1,195	1,285	880	824
Other species:										
Steelhead trout	78	40	19	44	45	38	26	49	26	83
Rainbow trout	0	0	0	0	0	0	0	0	0	0
Cutthroat trout	100	247	226	154	137	115	289	159	174	28
Brook trout	0	0	0	0	0	0	0	0	0	0
Lake trout	0	0	0	0	0	0	0	0	0	0
Dolly Varden/Arctic char	1,236	1,159	957	787	1,043	928	1,243	2,050	790	594
Arctic grayling	118	0	0	0	0	0	0	0	0	0
Northern pike	0	0	0	0	0	0	0	0	0	0
Whitefish	0	207	0	0	0	0	0	0	0	0
Burbot	0	0	0	0	0	0	0	0	0	0
Sheefish	62	109	207	101	0	20	97	518	195	0
Smelt	11,651	10,699	40,686	11,416	19,909	21,238	5,796	5,364	16,720	4,461
Pacific halibut	8,098	7,964	7,315	6,858	6,114	7,671	6,758	7,390	6,907	6,593
Rockfish	7,820	5,966	6,588	6,650	6,586	7,263	9,593	9,071	8,434	7,753
Lingcod	1,247	1,225	1,177	1,627	1,207	1,235	1,242	1,110	1,106	1,044
Pacific cod	1,670	2,653	2,402	3,048	3,284	2,479	3,734	3,992	3,141	1,627
Sablefish/black cod ^a			844	864	1,309	1,440	1,121	1,941	1,542	2,111
Shark	191	108	94	193	71	230	712	187	78	39
Other fish	2,083	1,060	3,425	2,728	1,553	1,805	1,752	2,447	1,799	2,696
Total fish	25,457	23,923	45,091	25,221	27,312	33,677	24,930	26,822	27,277	23,546

Note: Not all species listed may be found in a given watertype or region.

^a Information on sablefish (black cod) was first collected in 2010.

Table 2.28.—Alaska sport fish saltwater catch estimates by species, 2008–2017.

Species	Catch estimates									
	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Salmon species:										
Sea-run Chinook salmon	150,876	185,154	143,997	180,092	124,368	201,154	204,935	226,277	187,484	191,494
Sea-run coho salmon	492,830	512,645	424,000	474,544	313,206	614,388	449,647	578,027	304,615	539,119
Landlocked coho/Chinook salmon	0	0	0	0	0	0	0	0	0	0
Sockeye salmon	38,872	43,827	33,760	41,478	36,122	53,505	46,701	41,117	41,073	45,936
Kokanee salmon	0	0	0	0	0	0	0	0	0	0
Pink salmon	240,111	340,489	203,129	207,944	219,457	316,289	186,953	314,053	229,486	272,065
Chum salmon	39,383	56,769	30,042	59,624	31,029	64,059	30,864	38,629	32,566	32,033
Other species:										
Steelhead trout	747	481	285	702	639	480	1,369	338	428	1,054
Rainbow trout	0	0	0	0	0	0	0	0	0	0
Cutthroat trout	1,775	2,963	3,522	4,081	1,700	741	2,594	2,269	1,602	826
Brook trout	0	0	0	0	0	0	0	0	0	0
Lake trout	0	0	0	0	0	0	0	0	0	0
Dolly Varden/Arctic char	38,365	31,208	26,780	14,709	17,843	27,953	23,522	29,926	16,445	9,744
Arctic grayling	169	0	0	0	0	0	0	0	0	0
Northern pike	0	0	0	0	0	0	0	0	0	0
Whitefish	0	823	0	0	0	0	0	0	0	0
Burbot	0	0	0	0	0	0	0	0	0	0
Sheefish	61	547	650	160	6	20	186	1,367	531	0
Smelt	27,856	34,180	76,851	52,538	60,536	47,469	17,647	16,129	38,322	9,522
Pacific halibut	875,420	761,227	701,869	704,730	711,367	777,152	658,515	691,666	643,258	551,600
Rockfish	397,119	357,617	375,069	333,408	350,531	377,574	483,119	474,712	504,263	407,200
Lingcod	101,514	78,205	71,664	68,604	69,226	67,091	61,814	54,867	48,151	49,190
Pacific cod	63,744	99,615	117,934	123,581	91,895	85,412	133,620	133,166	86,722	43,504
Sablefish/black cod ^a			15,825	17,710	26,596	24,236	18,227	36,178	18,942	28,040
Shark	53,000	33,097	29,773	14,151	13,256	11,761	30,110	20,443	16,410	9,671
Other fish	22,236	35,768	34,668	44,666	40,490	64,723	39,001	38,489	40,005	22,906
Total fish	2,544,078	2,574,615	2,289,818	2,342,722	2,108,267	2,734,007	2,388,824	2,697,653	2,210,303	2,213,904

Note: Not all species listed may be found in a given watertype or region.

^a Information on sablefish (black cod) was first collected in 2010.

Table 2.29.—Alaska sport fish saltwater catch estimate **standard errors** by species, 2008–2017.

Species	Catch estimate standard errors									
	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Salmon species:										
Sea-run Chinook salmon	5,636	8,855	5,612	10,543	5,574	8,213	6,524	18,645	8,811	7,138
Sea-run coho salmon	13,789	12,407	10,739	12,929	9,545	21,281	11,263	25,046	8,795	13,203
Landlocked coho/Chinook salmon	0	0	0	0	0	0	0	0	0	0
Sockeye salmon	3,164	3,952	3,216	3,858	3,439	4,795	4,606	3,419	3,919	4,396
Kokanee salmon	0	0	0	0	0	0	0	0	0	0
Pink salmon	11,667	13,872	8,613	9,956	17,469	12,673	11,013	18,972	10,961	11,098
Chum salmon	4,086	3,754	2,547	8,079	2,573	4,266	3,151	3,024	3,637	2,305
Other species:										
Steelhead trout	292	143	155	280	244	174	986	152	137	366
Rainbow trout	0	0	0	0	0	0	0	0	0	0
Cutthroat trout	609	647	764	1,662	778	227	807	1,137	494	346
Brook trout	0	0	0	0	0	0	0	0	0	0
Lake trout	0	0	0	0	0	0	0	0	0	0
Dolly Varden/Arctic char	3,809	3,411	2,974	2,106	3,063	4,940	2,906	8,033	2,634	1,218
Arctic grayling	177	0	0	0	0	0	0	0	0	0
Northern pike	0	0	0	0	0	0	0	0	0	0
Whitefish	0	672	0	0	0	0	0	0	0	0
Burbot	0	0	0	0	0	0	0	0	0	0
Sheefish	62	453	412	132	6	20	193	908	246	0
Smelt	11,710	10,739	40,683	13,329	19,919	21,564	6,005	5,369	16,720	4,471
Pacific halibut	16,283	15,812	19,405	14,928	14,366	15,725	12,263	19,298	13,498	13,539
Rockfish	12,864	11,547	13,127	11,372	11,432	10,751	14,552	14,286	13,881	12,027
Lingcod	3,936	3,280	2,573	2,852	3,029	2,496	2,384	2,412	2,088	2,859
Pacific cod	4,180	5,548	10,722	7,084	5,939	5,089	8,053	9,764	6,108	3,545
Sablefish/black cod ^a			1,608	1,608	2,181	1,909	1,970	2,964	1,795	2,664
Shark	5,425	3,227	2,570	1,159	1,002	987	3,534	1,924	1,550	884
Other fish	2,757	7,139	4,327	5,733	4,204	12,642	5,159	4,156	3,930	3,145
Total fish	43,745	46,597	57,423	46,426	48,073	56,218	43,306	65,865	42,690	40,052

Note: Not all species listed may be found in a given watertype or region.

^a Information on sablefish (black cod) was first collected in 2010.

Table 2.30.—Alaska sport fish freshwater harvest estimates by species, 2008–2017.

Species	Harvest estimates									
	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Salmon species:										
Sea-run Chinook salmon	61,481	44,366	39,938	43,244	18,491	20,297	20,161	28,423	39,800	33,893
Sea-run coho salmon	272,687	246,647	216,080	188,906	165,763	205,831	240,567	255,027	161,244	197,813
Landlocked coho/Chinook salmon	10,433	8,153	8,849	2,838	5,286	4,531	13,447	4,736	10,362	9,135
Sockeye salmon	380,730	430,507	412,399	503,658	564,978	588,244	521,613	499,884	433,977	412,271
Kokanee salmon	8	110	0	0	0	14	36	0	0	16
Pink salmon	46,112	42,078	35,909	22,181	42,290	30,198	46,674	31,654	53,579	36,148
Chum salmon	9,188	9,196	7,893	7,639	7,504	13,217	7,662	6,863	6,129	7,890
Other species:										
Steelhead trout	152	240	59	53	279	103	84	37	15	73
Rainbow trout	49,159	35,976	38,941	32,098	29,942	40,589	37,722	62,812	53,461	41,839
Cutthroat trout	2,642	2,947	2,035	2,255	1,327	1,622	3,524	2,690	1,174	718
Brook trout	0	25	0	0	0	0	0	0	215	96
Lake trout	4,145	5,190	4,963	3,684	2,131	4,331	2,862	3,601	3,967	2,571
Dolly Varden/Arctic char	40,637	37,686	29,608	26,656	23,055	29,878	30,240	29,401	25,389	14,902
Arctic grayling	22,471	25,767	20,541	13,892	15,947	20,201	16,493	16,692	15,335	12,456
Northern pike	12,961	18,764	16,352	18,977	12,999	29,218	15,691	25,090	15,112	12,636
Whitefish	2,403	2,690	3,355	1,792	2,024	3,618	2,335	907	503	1,420
Burbot	4,618	5,853	6,265	2,336	4,352	4,225	3,563	3,138	3,104	2,136
Sheefish	736	1,170	776	505	215	373	376	495	365	181
Smelt	9,336	28,423	19,267	16,325	18,497	34,415	19,622	9,317	4,480	790
Pacific halibut	0	0	0	0	0	0	0	0	0	0
Rockfish	0	0	0	0	0	0	0	0	0	0
Lingcod	0	0	0	0	0	0	0	0	0	0
Pacific cod	0	0	0	0	0	0	0	0	0	0
Sablefish/black cod ^a			0	0	0	0	0	0	0	0
Shark	0	0	0	0	0	0	0	0	0	0
Other fish	450	1,154	1,155	2,806	3,865	2,456	2,114	2,643	1,744	2,899
Total fish	930,349	946,942	864,385	889,845	918,945	1,033,361	984,786	983,410	829,955	789,883

Note: Not all species listed may be found in a given watertype or region.

^a Information on sablefish (black cod) was first collected in 2010.

Table 2.31.—Alaska sport fish freshwater harvest estimate **standard errors** by species, 2008–2017.

Species	Harvest estimate standard errors									
	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Salmon species:										
Sea-run Chinook salmon	1,986	1,788	1,682	1,751	1,201	1,229	1,314	1,592	2,151	1,587
Sea-run coho salmon	7,508	7,131	6,258	5,680	5,687	6,144	7,488	9,171	5,479	6,704
Landlocked coho/Chinook salmon	2,103	1,363	2,087	488	1,117	863	2,706	935	4,837	1,772
Sockeye salmon	11,184	12,945	12,020	15,085	16,244	17,468	14,244	14,546	14,238	12,925
Kokanee salmon	8	69	0	0	0	13	21	0	0	17
Pink salmon	3,016	2,931	2,589	1,901	3,051	2,930	3,422	2,992	3,861	2,929
Chum salmon	2,102	1,273	834	864	900	2,425	1,040	812	898	876
Other species:										
Steelhead trout	58	111	22	38	111	47	63	20	15	43
Rainbow trout	3,231	2,610	2,278	2,531	2,480	3,577	2,870	5,847	5,684	3,707
Cutthroat trout	408	415	373	389	247	303	756	509	232	185
Brook trout	0	20	0	0	0	0	0	0	215	87
Lake trout	519	681	729	655	319	738	389	591	834	424
Dolly Varden/Arctic char	2,396	2,425	1,825	2,840	2,197	2,403	2,421	3,043	2,199	1,239
Arctic grayling	1,770	2,566	1,787	1,661	1,398	2,609	2,962	1,635	1,612	1,446
Northern pike	2,891	2,628	1,783	3,248	2,033	5,396	1,968	6,490	2,515	2,466
Whitefish	528	712	712	657	1,227	1,463	839	265	133	501
Burbot	877	1,351	1,072	430	1,655	869	1,112	763	673	536
Sheefish	274	434	312	157	61	137	141	255	208	67
Smelt	3,609	10,585	7,502	7,091	8,049	8,556	8,885	3,326	3,180	667
Pacific halibut	0	0	0	0	0	0	0	0	0	0
Rockfish	0	0	0	0	0	0	0	0	0	0
Lingcod	0	0	0	0	0	0	0	0	0	0
Pacific cod	0	0	0	0	0	0	0	0	0	0
Sablefish/black cod ^a			0	0	0	0	0	0	0	0
Shark	0	0	0	0	0	0	0	0	0	0
Other fish	156	357	347	763	1,837	736	871	905	617	625
Total fish	16,195	20,656	17,361	18,829	21,015	23,226	21,219	21,141	19,392	16,385

Note: Not all species listed may be found in a given watertype or region.

^a Information on sablefish (black cod) was first collected in 2010.

Table 2.32.—Alaska sport fish freshwater catch estimates by species, 2008–2017.

Species	Catch estimates									
	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Salmon species:										
Sea-run Chinook salmon	193,235	153,363	119,113	158,791	90,972	95,783	86,652	124,566	147,297	113,699
Sea-run coho salmon	571,338	511,611	436,906	422,670	359,366	429,869	507,409	566,517	350,075	439,414
Landlocked coho/Chinook salmon	26,640	32,193	21,782	9,407	13,102	16,890	38,441	10,461	24,860	26,963
Sockeye salmon	659,903	699,302	645,057	821,750	862,904	892,694	751,547	746,385	622,797	618,587
Kokanee salmon	36	2,411	0	0	0	471	96	392	0	211
Pink salmon	504,400	426,888	348,260	187,427	375,542	251,515	376,264	254,795	349,040	271,644
Chum salmon	125,172	119,501	118,451	127,632	128,812	116,000	97,907	129,644	80,560	92,377
Other species:										
Steelhead trout	42,243	17,124	12,214	10,856	18,563	9,675	11,244	19,921	14,036	17,510
Rainbow trout	748,589	727,545	646,523	651,443	530,500	630,899	632,581	829,553	679,080	645,227
Cutthroat trout	24,140	34,336	24,725	18,971	13,263	17,623	30,348	21,026	20,647	14,447
Brook trout	70	235	604	179	1,941	936	711	67	1,948	772
Lake trout	21,627	29,439	35,261	20,242	11,726	23,524	15,200	25,425	17,241	18,205
Dolly Varden/Arctic char	622,178	542,282	440,306	398,503	418,855	475,342	563,601	575,580	466,038	364,388
Arctic grayling	340,100	401,157	315,971	229,465	254,983	358,056	265,602	303,806	218,533	236,227
Northern pike	68,813	79,825	74,621	51,920	63,564	76,336	58,126	63,334	52,672	36,627
Whitefish	10,126	9,394	10,466	4,490	4,198	7,129	6,826	4,288	3,432	5,138
Burbot	6,893	9,710	10,951	3,580	5,734	5,246	5,041	5,589	5,507	2,509
Sheefish	2,496	7,026	3,958	2,616	1,044	1,233	1,795	1,299	2,324	589
Smelt	12,311	28,963	23,775	16,349	18,625	37,278	41,290	9,581	4,557	790
Pacific halibut	0	0	0	0	0	0	0	0	0	0
Rockfish	0	0	0	0	0	0	0	0	0	0
Lingcod	0	0	0	0	0	0	0	0	0	0
Pacific cod	0	0	0	0	0	0	0	0	0	0
Sablefish/black cod ^a			0	0	0	0	0	0	0	0
Shark	0	0	0	0	0	0	0	0	0	0
Other fish	2,597	3,494	6,327	6,826	6,368	6,838	6,605	7,893	6,869	6,243
Total fish	3,982,907	3,835,799	3,295,271	3,143,117	3,180,062	3,453,337	3,497,286	3,700,122	3,067,513	2,911,567

Note: Not all species listed may be found in a given watertype or region.

^a Information on sablefish (black cod) was first collected in 2010.

Table 2.33.—Alaska sport fish freshwater catch estimate **standard errors** by species, 2008–2017.

Species	Catch estimate standard errors									
	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Salmon species:										
Sea-run Chinook salmon	8,941	7,316	6,572	8,765	7,181	5,942	6,389	9,245	10,219	6,393
Sea-run coho salmon	16,141	16,107	14,953	15,875	14,710	16,265	17,373	22,104	16,141	19,488
Landlocked coho/Chinook salmon	3,610	5,362	3,633	1,791	2,290	2,970	8,238	1,766	12,609	4,692
Sockeye salmon	20,584	21,515	19,084	25,118	24,571	25,811	19,788	25,283	19,933	20,854
Kokanee salmon	29	1,767	0	0	0	413	71	377	0	202
Pink salmon	24,793	23,441	15,690	11,305	27,283	21,336	16,706	24,608	16,181	15,931
Chum salmon	8,345	7,880	8,371	8,685	8,548	9,909	6,679	13,245	8,033	6,374
Other species:										
Steelhead trout	4,652	2,130	1,346	2,354	2,479	1,232	1,321	2,932	2,213	2,774
Rainbow trout	32,088	24,584	23,984	30,743	29,236	24,991	23,817	41,243	29,404	36,720
Cutthroat trout	2,956	4,852	3,254	2,236	1,870	2,937	4,818	2,560	4,026	3,456
Brook trout	70	141	407	95	1,414	957	491	67	804	347
Lake trout	2,398	3,034	3,704	2,424	1,659	3,914	1,797	3,212	2,275	3,898
Dolly Varden/Arctic char	28,471	23,764	17,913	22,035	25,215	23,105	25,292	32,003	23,378	26,204
Arctic grayling	18,132	24,875	20,986	16,743	14,178	24,617	23,231	20,525	15,940	16,296
Northern pike	9,935	6,959	8,512	5,744	9,724	10,369	7,566	10,485	7,495	5,108
Whitefish	1,449	1,682	1,317	971	1,279	1,690	1,583	836	638	902
Burbot	1,129	2,364	2,372	603	1,818	961	1,230	1,590	1,477	579
Sheefish	766	2,862	1,897	772	289	305	574	471	865	224
Smelt	4,142	10,582	7,991	7,090	8,050	8,705	22,397	3,338	3,178	667
Pacific halibut	0	0	0	0	0	0	0	0	0	0
Rockfish	0	0	0	0	0	0	0	0	0	0
Lingcod	0	0	0	0	0	0	0	0	0	0
Pacific cod	0	0	0	0	0	0	0	0	0	0
Sablefish/black cod ^a			0	0	0	0	0	0	0	0
Shark	0	0	0	0	0	0	0	0	0	0
Other fish	592	697	1,566	1,751	1,955	1,414	1,948	1,993	1,529	1,100
Total fish	78,978	72,180	62,190	67,130	77,583	70,965	71,536	100,114	64,747	77,020

Note: Not all species listed may be found in a given watertype or region.

^a Information on sablefish (black cod) was first collected in 2010.

Table 2.34.—Alaska sport sea-run Chinook salmon harvest estimates, 2008–2017, by region and area.

Region/Area fished	Harvest estimates									
	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Southeast										
(A) Ketchikan	11,030	22,633	10,128	12,387	4,831	11,039	13,878	10,197	5,740	6,384
(B) Prince of Wales Island	3,894	5,793	7,014	10,385	7,390	7,335	12,784	16,472	15,112	11,493
(C) Kake, Petersburg, Wrangell, Stikine	5,669	5,328	3,987	3,843	3,679	3,657	5,214	5,045	6,897	4,203
(D) Sitka	15,337	18,336	23,515	27,909	21,927	19,974	40,748	31,878	33,674	23,561
(E) Juneau	10,524	12,169	10,085	6,839	6,038	8,105	7,224	9,986	3,868	3,032
(F1) Skagway	387	466	494	492	362	481	293	104	35	0
(F2) Haines	63	269	248	762	199	164	153	68	80	0
(G) Glacier Bay	1,671	3,277	2,072	3,155	1,778	4,947	5,264	4,777	2,001	2,579
(H) Yakutat	690	1,294	960	803	291	690	1,384	1,232	940	1,054
Southeast Total	49,265	69,565	58,503	66,575	46,495	56,392	86,942	79,759	68,347	52,306
Southcentral										
(J) North Gulf Coast/Prince William Sound ^a	5,650	6,145	5,366	3,928	3,076	5,811	4,618	5,205	5,548	5,202
(K) Knik Arm	2,843	2,152	1,076	1,012	292	495	1,026	1,628	2,366	902
(L) Anchorage	2,647	1,027	1,130	616	113	824	882	1,820	1,999	656
(M) Susitna River drainage ^a	13,426	8,368	8,894	8,701	2,785	2,489	2,049	3,910	4,745	2,550
(N) West Cook Inlet drainages ^a	437	829	854	76	0	0	130	122	34	41
(PF) Kenai Peninsula freshwater ^a	23,397	15,637	14,136	15,089	2,226	3,570	2,424	6,095	14,066	15,510
(PS) Cook Inlet saltwater	8,562	6,546	10,134	9,284	6,890	11,022	11,989	19,515	20,007	17,438
(Q) Kodiak	9,466	8,854	6,440	7,926	7,558	9,333	8,854	9,387	10,658	11,708
(R) Alaska Peninsula/Aleutian Islands	2,134	2,826	2,329	2,923	2,687	1,966	1,609	1,647	2,705	2,939
(S) Kvichak River drainage	1,072	300	418	1,427	917	949	1,088	206	418	675
(T) Nushagak, Wood River and Togiak	7,700	7,171	4,514	6,529	6,804	7,632	8,451	8,276	9,283	7,034
Southcentral Total	77,334	59,855	55,291	57,511	33,348	44,091	43,120	57,811	71,829	64,655
Arctic-Yukon-Kuskokwim										
(I) Upper Copper River drainage ^a	3,618	1,355	2,409	1,753	535	285	931	1,343	327	1,731
(U) Tanana River drainage	254	836	313	372	114	11	0	13	20	18
(V) Kuskokwim River/Kuskokwim Bay drainages	1,037	1,399	906	1,733	632	132	0	0	103	167
(W) Seward Peninsula/Norton Sound	580	291	61	61	0	0	0	0	78	13
(X) Northwest Alaska	14	0	0	0	0	19	0	0	0	0
(Y) Yukon River drainage	155	27	161	102	231	155	0	0	0	0
(Z) North Slope/Brooks Range	0	0	0	0	0	0	0	0	0	0
Arctic-Yukon-Kuskokwim Total	5,658	3,908	3,850	4,021	1,512	602	931	1,356	528	1,929
Alaska Total	132,257	133,328	117,644	128,107	81,355	101,085	130,993	138,926	140,704	118,890

^a Area estimates reflect present-day survey area boundaries. Totals may differ from those found in previously published reports due to area boundary changes that have occurred across study years.

Table 2.35.—Alaska sport sea-run Chinook salmon harvest estimate **standard errors**, 2008–2017, by region and area.

Region/Area fished	Harvest estimate standard errors									
	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Southeast										
(A) Ketchikan	1,488	3,733	1,461	1,668	505	1,339	1,654	885	784	1,160
(B) Prince of Wales Island	484	772	624	1,006	626	720	1,066	1,453	1,335	906
(C) Kake, Petersburg, Wrangell, Stikine	746	638	657	667	533	649	729	636	1,317	830
(D) Sitka	861	1,088	1,352	1,596	1,255	1,449	2,102	1,795	2,094	1,614
(E) Juneau	1,324	1,507	1,834	866	790	886	922	1,127	684	571
(F1) Skagway	91	188	206	273	144	115	100	42	26	0
(F2) Haines	33	154	115	457	69	72	120	55	80	0
(G) Glacier Bay	265	415	329	431	289	1,464	613	606	360	357
(H) Yakutat	166	249	326	198	102	162	280	380	288	263
Southeast Total	2,359	4,308	2,906	2,876	1,799	2,669	3,122	2,833	3,053	2,428
Southcentral										
(J) North Gulf Coast/Prince William Sound ^a	1,571	1,229	875	618	492	877	626	522	1,970	547
(K) Knik Arm	374	424	209	240	143	137	229	333	394	195
(L) Anchorage	427	246	255	178	73	235	308	623	408	198
(M) Susitna River drainage ^a	838	809	683	706	313	313	314	533	614	359
(N) West Cook Inlet drainages ^a	182	292	409	47	0	0	74	69	25	41
(PF) Kenai Peninsula freshwater ^a	895	712	689	773	328	328	411	511	781	989
(PS) Cook Inlet saltwater	780	601	939	735	673	857	1,155	1,520	1,383	1,247
(Q) Kodiak	1,357	1,099	722	1,218	953	1,151	944	1,085	1,680	1,533
(R) Alaska Peninsula/Aleutian Islands	441	616	424	521	507	433	329	352	492	479
(S) Kvichak River drainage	241	103	162	464	332	348	319	137	184	279
(T) Nushagak, Wood River and Togiak	815	730	628	826	756	793	1,018	864	1,201	931
Southcentral Total	2,804	2,238	1,943	2,144	1,666	1,995	2,058	2,406	3,468	2,525
Arctic-Yukon-Kuskokwim										
(I) Upper Copper River drainage ^a	466	201	287	224	135	85	187	226	126	243
(U) Tanana River drainage	99	257	147	224	62	11	0	13	20	18
(V) Kuskokwim River/Kuskokwim Bay drainages	253	514	283	460	316	109	0	0	45	54
(W) Seward Peninsula/Norton Sound	434	250	39	47	0	0	0	0	62	13
(X) Northwest Alaska	14	0	0	0	0	19	0	0	0	0
(Y) Yukon River drainage	94	19	73	63	129	85	0	0	0	0
(Z) North Slope/Brooks Range	0	0	0	0	0	0	0	0	0	0
Arctic-Yukon-Kuskokwim Total	705	649	434	566	374	163	187	227	149	252
Alaska Total	3,611	4,810	3,581	3,560	2,459	3,254	3,645	3,670	4,524	3,353

^a Area estimates reflect present-day survey area boundaries. Totals may differ from those found in previously published reports due to area boundary changes that have occurred across study years.

Table 2.36.—Alaska sport sea-run Chinook salmon catch estimates, 2008–2017, by region and area.

Region/Area fished	Catch estimates									
	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Southeast										
(A) Ketchikan	31,150	60,298	27,020	40,881	18,148	39,068	34,621	31,471	19,407	30,292
(B) Prince of Wales Island	16,845	16,298	15,648	23,410	17,788	29,946	30,618	33,443	30,560	30,484
(C) Kake, Petersburg, Wrangell, Stikine	10,742	9,398	6,666	8,327	6,404	7,937	9,114	10,844	12,245	9,513
(D) Sitka	37,318	36,965	39,948	52,916	43,104	54,044	69,025	72,775	57,527	49,209
(E) Juneau	20,720	20,373	15,597	14,085	11,299	19,222	14,747	20,893	11,332	13,850
(F1) Skagway	2,202	1,773	1,546	2,383	1,008	1,928	1,439	500	313	329
(F2) Haines	1,928	565	1,024	3,055	671	938	354	391	137	279
(G) Glacier Bay	3,879	6,714	4,915	8,131	3,503	12,136	9,435	9,897	4,622	6,902
(H) Yakutat	1,656	3,734	1,913	2,091	1,110	1,605	3,828	2,557	1,766	1,922
Southeast Total	126,440	156,118	114,277	155,279	103,035	166,824	173,181	182,771	137,909	142,780
Southcentral										
(J) North Gulf Coast/Prince William Sound ^a	9,435	12,437	9,284	8,239	4,743	9,908	7,076	8,044	8,140	9,357
(K) Knik Arm	4,989	4,388	2,789	2,066	474	963	1,829	3,124	4,914	2,130
(L) Anchorage	5,464	2,655	2,141	1,322	334	1,304	1,382	3,077	2,826	1,473
(M) Susitna River drainage ^a	36,244	27,259	22,788	23,307	9,380	16,679	12,507	28,671	19,205	10,246
(N) West Cook Inlet drainages ^a	1,662	1,907	2,229	1,188	278	312	1,507	376	52	164
(PF) Kenai Peninsula freshwater ^a	55,957	43,993	30,101	32,828	10,639	16,591	10,652	19,177	32,703	33,029
(PS) Cook Inlet saltwater	10,523	9,732	16,508	12,254	8,318	14,608	15,982	27,971	28,722	24,243
(Q) Kodiak	12,645	13,002	9,400	13,093	13,095	14,600	13,070	14,810	19,135	20,549
(R) Alaska Peninsula/Aleutian Islands	7,581	9,413	7,574	9,780	8,058	4,563	8,559	10,014	14,325	11,680
(S) Kvichak River drainage	3,469	3,371	4,364	4,832	2,308	3,919	4,459	4,362	6,174	4,424
(T) Nushagak, Wood River and Togiak	49,139	38,907	23,973	51,320	44,251	38,855	37,369	39,733	52,129	31,631
Southcentral Total	197,108	167,064	131,151	160,229	101,878	122,302	114,392	159,359	188,325	148,926
Arctic-Yukon-Kuskokwim										
(I) Upper Copper River drainage ^a	7,827	4,231	8,167	7,022	1,869	1,195	2,248	4,165	1,508	7,508
(U) Tanana River drainage	915	2,632	1,859	1,432	1,142	129	10	48	1,532	138
(V) Kuskokwim River/Kuskokwim Bay drainages	10,313	6,879	6,812	13,448	6,855	5,357	1,600	4,335	5,121	5,074
(W) Seward Peninsula/Norton Sound	796	623	99	574	17	184	0	41	118	369
(X) Northwest Alaska	27	0	0	0	0	19	0	0	0	0
(Y) Yukon River drainage	685	970	745	899	544	927	156	124	268	398
(Z) North Slope/Brooks Range	0	0	0	0	0	0	0	0	0	0
Arctic-Yukon-Kuskokwim Total	20,563	15,335	17,682	23,375	10,427	7,811	4,014	8,713	8,547	13,487
Alaska Total	344,111	338,517	263,110	338,883	215,340	296,937	291,587	350,843	334,781	305,193

^a Area estimates reflect present-day survey area boundaries. Totals may differ from those found in previously published reports due to area boundary changes that have occurred across study years.

Table 2.37.—Alaska sport sea-run Chinook salmon catch estimate **standard errors**, 2008–2017, by region and area.

Region/Area fished	Catch estimate standard errors									
	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Southeast										
(A) Ketchikan	2,893	7,185	3,039	9,100	1,927	4,697	3,421	2,908	2,800	3,092
(B) Prince of Wales Island	1,946	2,783	1,671	2,316	1,708	3,182	3,045	3,519	2,856	2,487
(C) Kake, Petersburg, Wrangell, Stikine	1,739	1,140	1,077	1,765	981	1,314	1,103	1,443	1,853	1,614
(D) Sitka	2,099	2,356	2,204	3,035	3,903	4,606	3,474	17,278	3,558	3,620
(E) Juneau	2,705	2,353	2,254	1,855	1,389	2,214	1,818	2,362	1,796	1,991
(F1) Skagway	485	374	531	1,004	273	429	347	157	110	136
(F2) Haines	1,654	256	352	2,054	237	348	225	250	120	135
(G) Glacier Bay	577	780	813	1,228	703	2,480	1,035	1,215	931	1,274
(H) Yakutat	374	832	485	584	436	308	828	730	523	391
Southeast Total	5,361	8,299	4,879	10,405	5,109	7,827	6,092	18,359	6,041	5,939
Southcentral										
(J) North Gulf Coast/Prince William Sound ^a	1,860	2,951	1,392	1,417	684	1,288	843	944	2,775	1,013
(K) Knik Arm	682	1,478	660	561	181	290	538	567	1,253	536
(L) Anchorage	762	642	401	350	145	324	436	1,030	545	487
(M) Susitna River drainage ^a	2,827	2,827	1,906	2,542	1,276	2,110	1,702	5,195	2,550	1,480
(N) West Cook Inlet drainages ^a	559	558	879	878	244	213	924	175	31	125
(PF) Kenai Peninsula freshwater ^a	3,143	3,424	2,081	2,282	1,286	1,782	1,282	1,531	2,778	2,565
(PS) Cook Inlet saltwater	943	1,091	2,172	1,048	923	1,228	1,677	3,072	2,952	1,791
(Q) Kodiak	1,674	1,491	1,146	2,118	2,350	1,954	1,605	2,125	5,420	3,965
(R) Alaska Peninsula/Aleutian Islands	1,486	2,094	1,718	1,797	1,328	890	1,930	2,002	2,706	2,065
(S) Kvichak River drainage	716	910	1,186	1,435	842	1,473	1,655	1,565	3,130	1,466
(T) Nushagak, Wood River and Togiak	6,785	4,844	4,943	6,883	6,497	4,570	5,263	7,028	7,963	4,312
Southcentral Total	8,710	7,636	6,613	8,540	7,467	6,324	6,817	9,852	12,015	7,216
Arctic-Yukon-Kuskokwim										
(I) Upper Copper River drainage ^a	1,258	644	1,425	1,420	387	376	438	1,156	651	2,268
(U) Tanana River drainage	316	762	735	745	555	74	10	27	1,037	63
(V) Kuskokwim River/Kuskokwim Bay drainages	2,059	1,372	1,313	2,688	1,869	1,389	512	1,393	1,051	1,254
(W) Seward Peninsula/Norton Sound	488	355	58	526	17	109	0	31	85	329
(X) Northwest Alaska	19	0	0	0	0	19	0	0	0	0
(Y) Yukon River drainage	352	661	339	679	242	699	100	81	162	245
(Z) North Slope/Brooks Range	0	0	0	0	0	0	0	0	0	0
Arctic-Yukon-Kuskokwim Total	2,527	1,838	2,052	3,292	1,968	1,615	690	1,832	1,635	2,580
Alaska Total	10,285	11,166	8,525	13,734	9,197	10,076	9,256	20,336	13,282	9,660

^a Area estimates reflect present-day survey area boundaries. Totals may differ from those found in previously published reports due to area boundary changes that have occurred across study years.

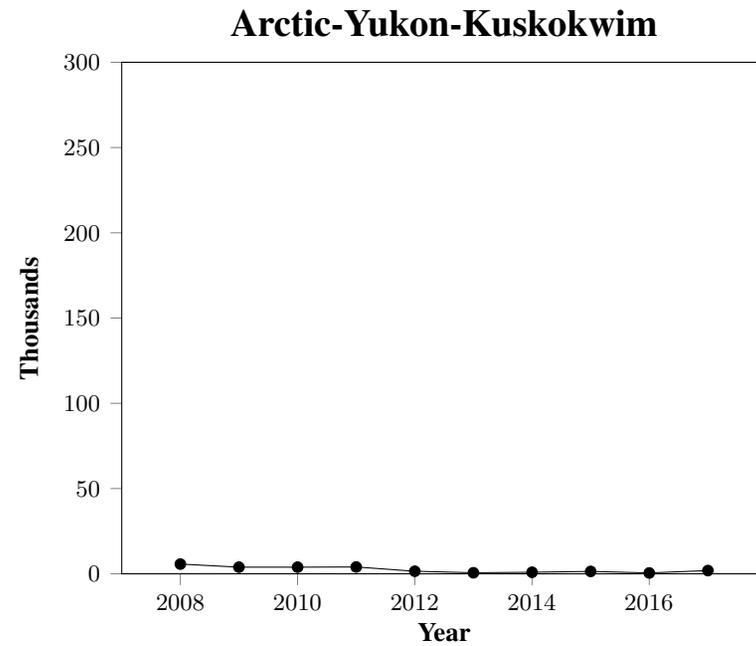
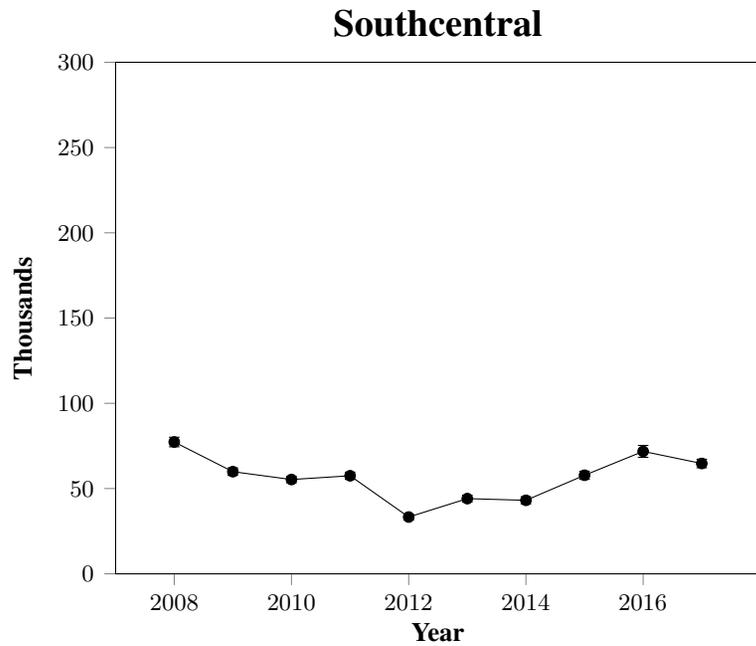
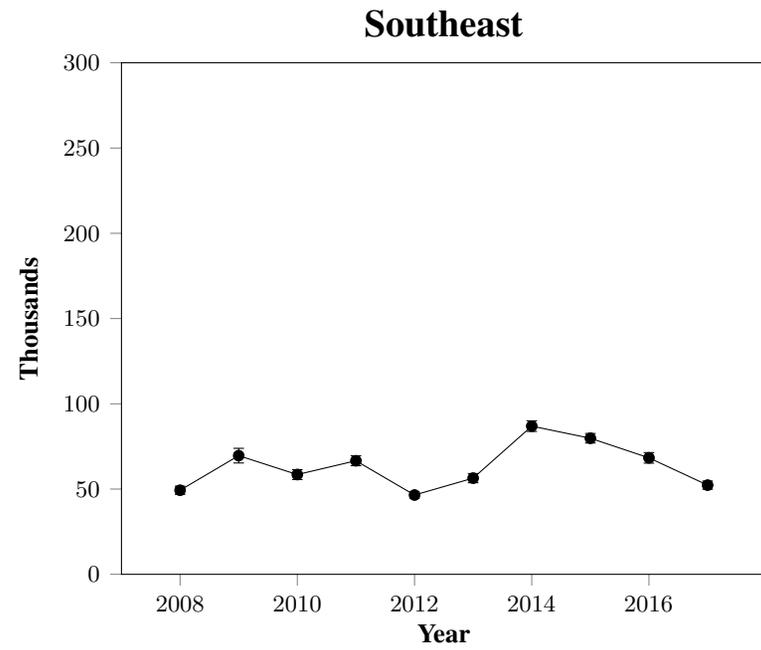
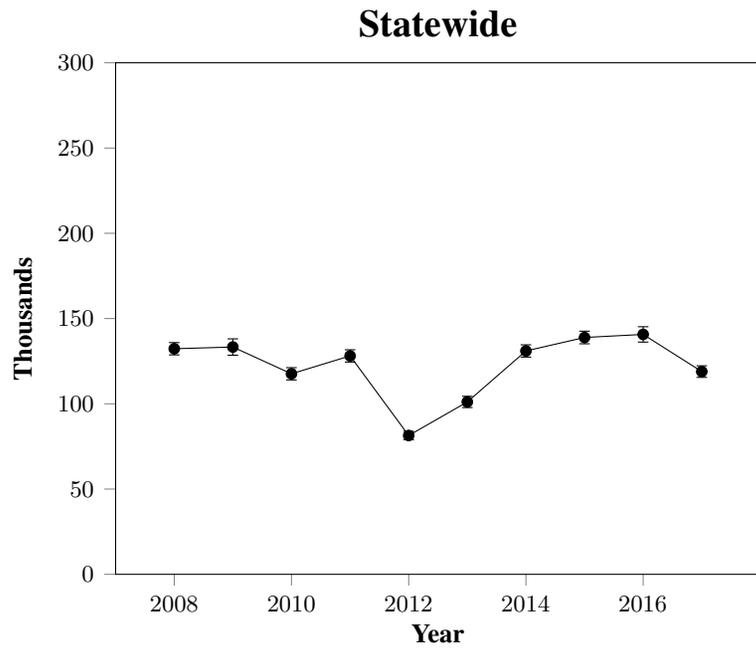


Figure 2.3.—Alaska sport sea-run Chinook salmon harvest estimates and standard errors, 2008–2017, by region.

Note: Trends in harvest estimates can reflect changes in the abundance of fish, changes in angler effort, fishery management actions that reduce or liberalize harvest, or a combination of these and other factors.

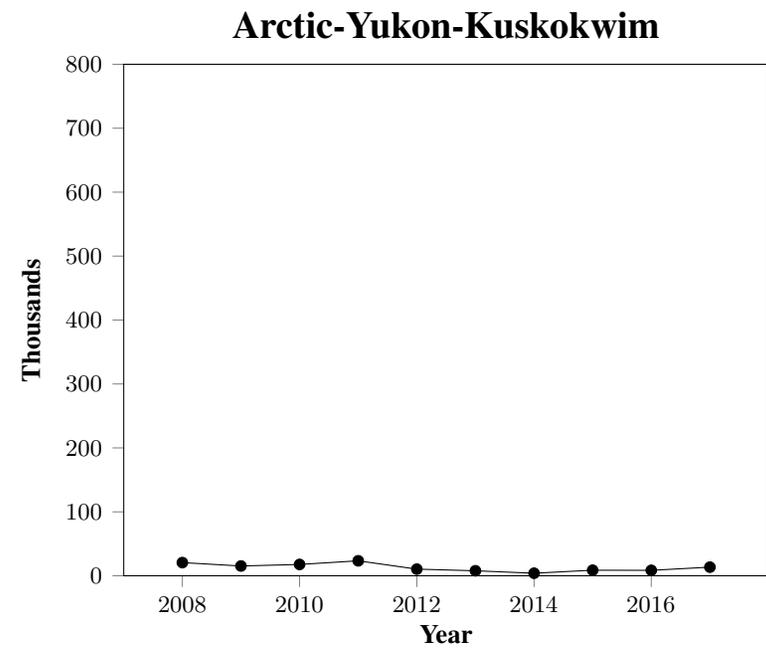
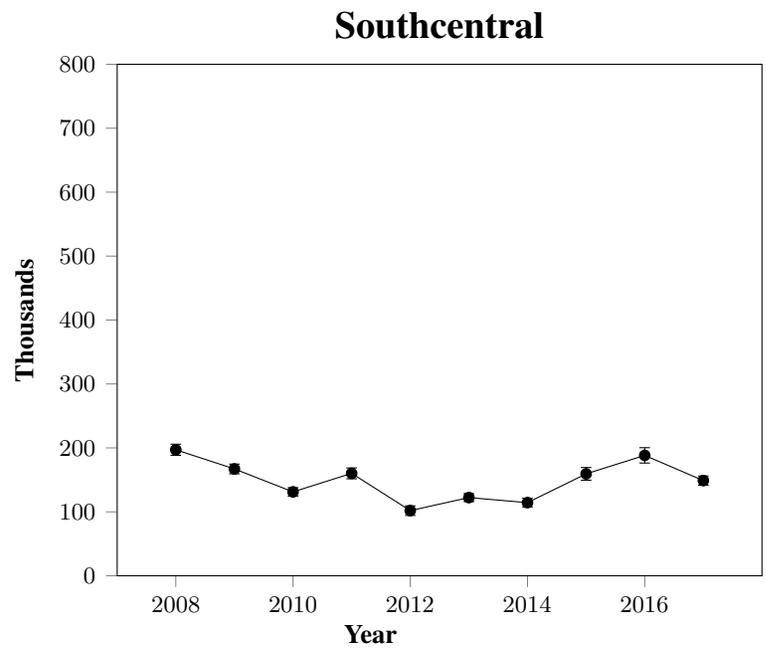
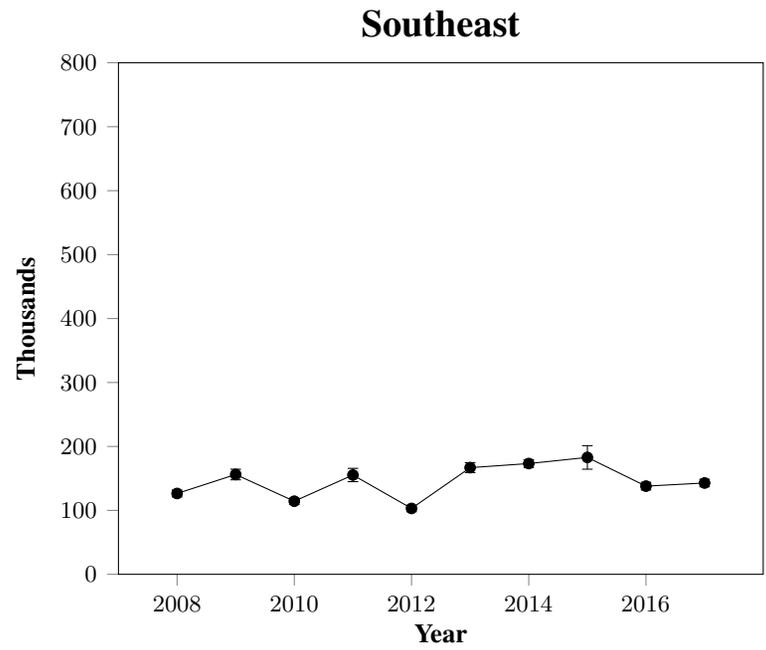
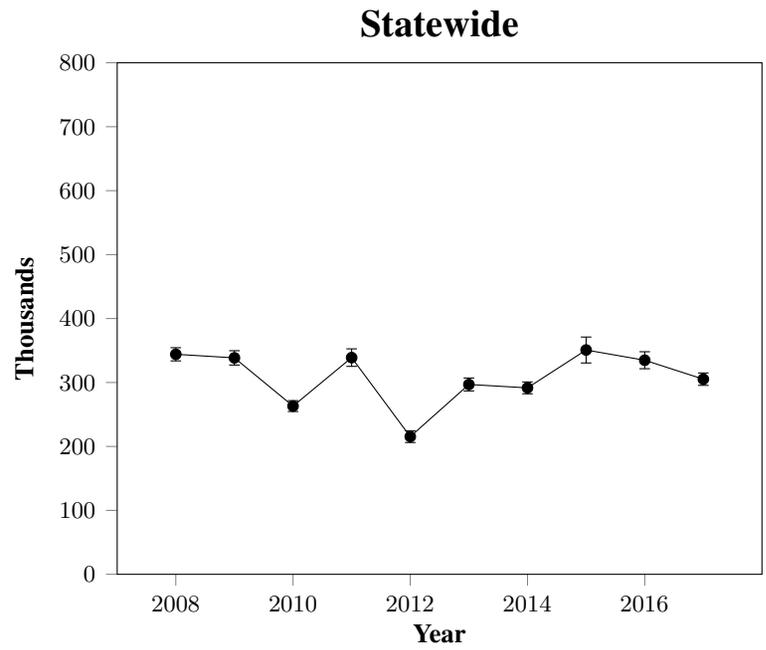


Figure 2.4.—Alaska sport sea-run Chinook salmon catch estimates and standard errors, 2008–2017, by region.
Note: Trends in catch estimates can reflect changes in the abundance of fish, changes in angler effort, fishery management actions that reduce or liberalize harvest, or a combination of these and other factors.

Table 2.38.—Alaska sport sea-run coho salmon harvest estimates, 2008–2017, by region and area.

Region/Area fished	Harvest estimates									
	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Southeast										
(A) Ketchikan	47,464	70,519	34,674	34,930	30,280	67,991	53,471	46,262	35,704	49,166
(B) Prince of Wales Island	71,871	67,182	44,473	65,626	74,419	87,541	86,704	89,796	56,352	71,494
(C) Kake, Petersburg, Wrangell, Stikine	7,043	11,233	7,604	9,906	5,714	17,578	11,009	17,636	6,709	14,675
(D) Sitka	53,401	44,640	40,180	49,090	50,595	74,028	60,996	50,687	67,091	85,397
(E) Juneau	18,578	25,304	25,972	28,264	16,379	36,887	33,314	50,177	28,518	38,384
(F1) Skagway	14	57	43	227	29	16	204	308	43	262
(F2) Haines	1,623	3,032	1,212	2,461	1,141	1,856	1,705	1,741	1,146	2,054
(G) Glacier Bay	13,039	14,910	11,717	17,829	9,867	28,610	16,071	20,696	16,606	39,600
(H) Yakutat	17,674	17,875	20,428	27,524	19,102	25,078	29,098	25,250	20,488	30,355
Southeast Total	230,707	254,752	186,303	235,857	207,526	339,585	292,572	302,553	232,657	331,387
Southcentral										
(J) North Gulf Coast/Prince William Sound ^a	175,016	175,965	180,308	177,367	79,569	176,017	115,263	190,632	57,118	145,341
(K) Knik Arm	35,996	37,380	26,369	8,484	5,014	12,335	16,180	17,800	7,962	6,232
(L) Anchorage	17,996	10,805	4,466	7,405	4,187	6,190	9,430	15,099	5,069	13,049
(M) Susitna River drainage ^a	41,708	31,193	30,327	21,806	17,063	25,594	25,654	29,234	9,921	23,597
(N) West Cook Inlet drainages ^a	14,673	9,801	9,030	6,292	7,813	7,698	7,320	12,849	6,015	4,828
(PF) Kenai Peninsula freshwater ^a	70,757	67,220	65,631	55,632	49,050	60,784	72,817	70,790	48,126	59,778
(PS) Cook Inlet saltwater	13,528	12,327	10,106	10,106	6,720	11,319	21,038	23,459	8,520	20,932
(Q) Kodiak	32,067	32,574	25,674	28,369	22,846	30,075	34,442	40,307	19,171	25,360
(R) Alaska Peninsula/Aleutian Islands	12,133	12,666	10,917	7,406	8,526	6,449	14,008	10,055	9,440	14,589
(S) Kvichak River drainage	2,547	1,921	2,086	2,517	2,381	1,959	2,200	1,820	1,912	2,920
(T) Nushagak, Wood River and Togiak	10,495	6,093	4,321	6,122	8,332	6,685	9,542	10,384	6,538	7,032
Southcentral Total	426,916	397,945	369,235	331,506	211,501	345,105	327,894	422,429	179,792	323,658
Arctic-Yukon-Kuskokwim										
(I) Upper Copper River drainage ^a	57	36	59	21	0	0	89	16	0	23
(U) Tanana River drainage	170	115	369	284	84	139	216	180	641	236
(V) Kuskokwim River/Kuskokwim Bay drainages	6,344	4,724	3,527	3,713	4,972	5,946	4,280	4,877	5,889	4,497
(W) Seward Peninsula/Norton Sound	11,947	6,579	5,876	3,582	5,099	7,567	3,358	3,720	5,554	5,944
(X) Northwest Alaska	63	0	0	161	0	0	0	0	0	0
(Y) Yukon River drainage	171	849	575	179	47	127	1,639	413	29	55
(Z) North Slope/Brooks Range	0	0	0	0	0	0	20	0	0	0
Arctic-Yukon-Kuskokwim Total	18,752	12,303	10,406	7,940	10,202	13,779	9,602	9,206	12,113	10,755
Alaska Total	676,375	665,000	565,944	575,303	429,229	698,469	630,068	734,188	424,562	665,800

^a Area estimates reflect present-day survey area boundaries. Totals may differ from those found in previously published reports due to area boundary changes that have occurred across study years.

Table 2.39.—Alaska sport sea-run coho salmon harvest estimate **standard errors**, 2008–2017, by region and area.

Region/Area fished	Harvest estimate standard errors									
	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Southeast										
(A) Ketchikan	3,753	4,098	2,668	2,708	2,821	5,856	4,348	3,233	2,706	3,964
(B) Prince of Wales Island	5,324	4,143	3,242	5,001	4,765	5,672	5,101	5,877	3,538	4,495
(C) Kake, Petersburg, Wrangell, Stikine	951	1,243	958	1,164	1,019	2,157	1,414	1,926	1,005	1,811
(D) Sitka	3,365	2,522	2,497	3,202	3,417	4,149	3,536	3,135	4,231	5,486
(E) Juneau	1,812	1,869	2,705	2,157	1,609	3,208	3,040	3,876	2,928	3,478
(F1) Skagway	14	50	34	89	32	16	166	164	43	179
(F2) Haines	331	562	239	405	270	405	411	468	381	393
(G) Glacier Bay	1,406	1,309	1,372	2,234	1,160	2,644	1,763	2,142	2,413	3,605
(H) Yakutat	1,553	1,574	1,638	2,137	1,643	2,627	2,808	2,111	1,667	2,482
Southeast Total	7,725	6,830	5,975	7,587	7,051	10,449	8,687	8,901	7,435	9,700
Southcentral										
(J) North Gulf Coast/Prince William Sound ^a	6,969	6,571	6,868	6,735	3,840	7,202	5,280	8,308	3,400	7,074
(K) Knik Arm	3,107	3,324	2,211	1,005	768	1,570	2,150	2,032	1,321	875
(L) Anchorage	1,904	1,286	713	1,491	738	1,403	1,767	2,945	871	2,336
(M) Susitna River drainage ^a	2,760	2,377	1,952	1,907	1,503	2,243	2,056	2,645	1,188	2,575
(N) West Cook Inlet drainages ^a	1,589	971	980	739	854	827	875	1,904	896	689
(PF) Kenai Peninsula freshwater ^a	3,229	3,087	3,699	3,147	3,587	3,143	4,855	3,850	3,109	3,648
(PS) Cook Inlet saltwater	1,267	1,116	953	872	764	1,255	2,213	1,710	815	1,544
(Q) Kodiak	2,243	2,232	2,034	2,685	2,264	2,419	2,735	3,369	1,702	2,068
(R) Alaska Peninsula/Aleutian Islands	1,624	2,588	1,501	1,267	1,334	998	1,732	1,431	1,529	2,031
(S) Kvichak River drainage	559	342	470	496	630	403	481	412	543	676
(T) Nushagak, Wood River and Togiak	3,334	1,076	839	986	1,687	1,437	1,613	1,924	1,346	1,243
Southcentral Total	10,002	9,153	9,095	8,815	6,441	8,553	8,878	11,233	5,664	9,223
Arctic-Yukon-Kuskokwim										
(I) Upper Copper River drainage ^a	41	35	51	22	0	0	65	16	0	24
(U) Tanana River drainage	100	70	170	154	51	71	109	130	264	142
(V) Kuskokwim River/Kuskokwim Bay drainages	1,005	1,032	609	587	1,128	1,023	711	754	1,189	738
(W) Seward Peninsula/Norton Sound	1,843	1,231	1,424	810	1,049	2,190	1,094	1,711	1,230	2,202
(X) Northwest Alaska	63	0	0	137	0	0	0	0	0	0
(Y) Yukon River drainage	101	534	234	147	27	92	645	246	21	54
(Z) North Slope/Brooks Range	0	0	0	0	0	0	20	0	0	0
Arctic-Yukon-Kuskokwim Total	2,074	1,649	1,539	1,003	1,525	2,427	1,461	1,905	1,730	2,324
Alaska Total	12,390	11,319	10,504	11,445	9,350	13,465	11,894	13,684	9,363	13,276

^a Area estimates reflect present-day survey area boundaries. Totals may differ from those found in previously published reports due to area boundary changes that have occurred across study years.

Table 2.40.—Alaska sport sea-run coho salmon catch estimates, 2008–2017, by region and area.

Region/Area fished	Catch estimates									
	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Southeast										
(A) Ketchikan	61,293	93,517	40,957	43,594	39,727	80,589	60,018	51,453	41,517	54,521
(B) Prince of Wales Island	90,637	83,904	55,488	79,835	94,473	120,943	108,388	108,641	69,279	86,482
(C) Kake, Petersburg, Wrangell, Stikine	9,082	15,113	9,581	12,942	7,027	20,446	13,384	20,539	8,735	17,192
(D) Sitka	59,947	53,340	48,091	57,147	60,552	95,012	72,087	64,167	75,677	94,601
(E) Juneau	24,499	33,716	35,312	35,979	19,139	42,785	39,217	81,839	35,458	44,212
(F1) Skagway	202	491	70	443	163	213	550	416	203	455
(F2) Haines	2,494	4,497	1,787	4,146	1,938	3,522	3,083	2,723	1,734	3,602
(G) Glacier Bay	15,600	19,227	13,463	21,470	12,768	33,717	19,126	25,478	18,807	45,279
(H) Yakutat	47,596	56,316	67,815	90,161	60,150	88,624	92,162	76,445	57,101	83,156
Southeast Total	311,350	360,121	272,564	345,717	295,937	485,851	408,015	431,701	308,511	429,500
Southcentral										
(J) North Gulf Coast/Prince William Sound ^a	229,544	224,583	232,548	238,950	104,054	230,371	144,612	239,608	72,734	173,177
(K) Knik Arm	50,585	52,685	34,402	12,471	7,286	16,106	20,434	21,100	11,977	8,276
(L) Anchorage	26,124	17,736	5,983	10,327	6,535	7,641	13,939	19,218	6,198	17,500
(M) Susitna River drainage ^a	74,526	59,871	58,676	41,122	30,536	46,233	37,673	55,849	15,513	40,519
(N) West Cook Inlet drainages ^a	22,100	19,410	13,545	9,714	11,844	13,917	12,954	20,582	7,660	8,139
(PF) Kenai Peninsula freshwater ^a	109,022	98,692	89,580	81,636	68,602	80,886	101,942	102,997	60,860	77,088
(PS) Cook Inlet saltwater	16,893	14,783	12,124	13,173	9,083	14,619	25,799	28,101	10,429	25,642
(Q) Kodiak	56,643	65,486	43,029	48,689	31,459	47,622	59,703	75,147	30,201	43,247
(R) Alaska Peninsula/Aleutian Islands	30,530	30,066	28,269	17,346	22,361	13,779	35,492	39,280	31,616	39,185
(S) Kvichak River drainage	10,161	7,384	5,971	8,369	6,431	9,455	13,262	7,457	4,097	9,138
(T) Nushagak, Wood River and Togiak	49,897	24,516	18,812	17,285	29,677	20,229	30,226	32,627	25,965	30,034
Southcentral Total	676,025	615,212	542,939	499,082	327,868	500,858	496,036	641,966	277,250	471,945
Arctic-Yukon-Kuskokwim										
(I) Upper Copper River drainage ^a	57	36	83	21	0	229	129	16	0	35
(U) Tanana River drainage	1,739	4,330	3,679	3,761	2,623	1,952	6,655	4,393	4,853	3,218
(V) Kuskokwim River/Kuskokwim Bay drainages	45,382	23,143	25,413	36,033	36,540	43,413	29,712	58,373	50,573	60,953
(W) Seward Peninsula/Norton Sound	28,264	17,320	14,245	11,827	9,430	10,357	6,010	6,978	13,474	12,659
(X) Northwest Alaska	74	18	0	215	0	0	0	17	0	0
(Y) Yukon River drainage	1,277	4,076	1,983	558	174	1,597	10,479	1,100	29	223
(Z) North Slope/Brooks Range	0	0	0	0	0	0	20	0	0	0
Arctic-Yukon-Kuskokwim Total	76,793	48,923	45,403	52,415	48,767	57,548	53,005	70,877	68,929	77,088
Alaska Total	1,064,168	1,024,256	860,906	897,214	672,572	1,044,257	957,056	1,144,544	654,690	978,533

^a Area estimates reflect present-day survey area boundaries. Totals may differ from those found in previously published reports due to area boundary changes that have occurred across study years.

Table 2.41.—Alaska sport sea-run coho salmon catch estimate **standard errors**, 2008–2017, by region and area.

Region/Area fished	Catch estimate standard errors									
	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Southeast										
(A) Ketchikan	4,710	7,782	3,029	3,372	4,265	6,758	4,688	3,480	3,170	4,188
(B) Prince of Wales Island	6,417	4,891	3,946	6,078	6,088	16,997	6,547	7,399	4,219	5,505
(C) Kake, Petersburg, Wrangell, Stikine	1,236	2,004	1,280	1,603	1,254	2,637	1,706	2,226	1,189	2,085
(D) Sitka	3,757	2,986	3,241	3,561	4,797	5,614	4,300	6,197	4,676	5,837
(E) Juneau	2,372	2,529	3,688	2,658	1,860	3,526	3,468	21,415	3,645	3,945
(F1) Skagway	94	289	37	184	93	108	336	197	141	223
(F2) Haines	478	784	391	753	419	770	687	755	488	759
(G) Glacier Bay	1,899	1,745	1,539	2,628	1,581	3,048	2,011	2,601	2,562	4,442
(H) Yakutat	5,540	6,285	7,293	9,252	8,362	10,634	9,617	9,651	7,922	9,054
Southeast Total	10,568	11,794	10,221	12,725	12,107	22,265	13,755	26,267	11,420	14,190
Southcentral										
(J) North Gulf Coast/Prince William Sound ^a	10,463	8,867	9,489	10,460	5,628	10,005	7,233	10,722	4,277	8,111
(K) Knik Arm	4,560	4,965	3,157	1,535	1,393	2,100	2,747	2,304	2,215	1,119
(L) Anchorage	2,819	1,977	835	1,875	1,090	1,624	2,474	3,531	967	2,763
(M) Susitna River drainage ^a	4,872	5,329	5,456	3,964	2,989	4,779	2,906	7,239	1,931	4,708
(N) West Cook Inlet drainages ^a	2,145	1,968	1,473	1,254	1,227	1,699	1,720	3,141	1,174	1,590
(PF) Kenai Peninsula freshwater ^a	5,315	5,278	4,800	5,103	4,131	4,135	7,379	5,811	3,671	4,906
(PS) Cook Inlet saltwater	1,649	1,316	1,175	1,280	1,032	1,790	2,526	2,111	1,005	1,991
(Q) Kodiak	4,153	5,812	3,554	4,397	2,837	4,071	4,537	7,805	2,653	4,032
(R) Alaska Peninsula/Aleutian Islands	3,671	4,431	3,986	2,531	3,635	2,441	4,882	7,254	6,641	6,188
(S) Kvichak River drainage	2,036	1,427	1,083	2,262	1,327	2,288	2,847	1,556	977	2,278
(T) Nushagak, Wood River and Togiak	7,275	5,899	4,442	2,545	5,951	3,809	5,401	5,235	6,174	7,197
Southcentral Total	16,631	15,559	14,617	14,205	11,064	13,229	14,860	19,200	11,681	15,155
Arctic-Yukon-Kuskokwim										
(I) Upper Copper River drainage ^a	41	35	55	22	0	228	77	16	0	35
(U) Tanana River drainage	769	1,681	1,356	1,254	1,222	1,065	3,463	2,247	1,425	908
(V) Kuskokwim River/Kuskokwim Bay drainages	6,198	3,103	4,469	7,144	6,371	6,428	4,269	9,246	7,641	11,021
(W) Seward Peninsula/Norton Sound	4,523	3,400	3,600	2,786	1,762	2,446	1,718	2,343	3,088	3,698
(X) Northwest Alaska	64	18	0	151	0	0	0	16	0	0
(Y) Yukon River drainage	801	2,348	739	396	126	1,262	4,195	677	21	175
(Z) North Slope/Brooks Range	0	0	0	0	0	0	20	0	0	0
Arctic-Yukon-Kuskokwim Total	7,565	5,285	5,754	7,754	6,787	7,151	7,130	9,838	8,173	11,730
Alaska Total	20,866	20,283	17,933	20,173	17,338	26,609	20,404	33,111	17,828	23,723

^a Area estimates reflect present-day survey area boundaries. Totals may differ from those found in previously published reports due to area boundary changes that have occurred across study years.

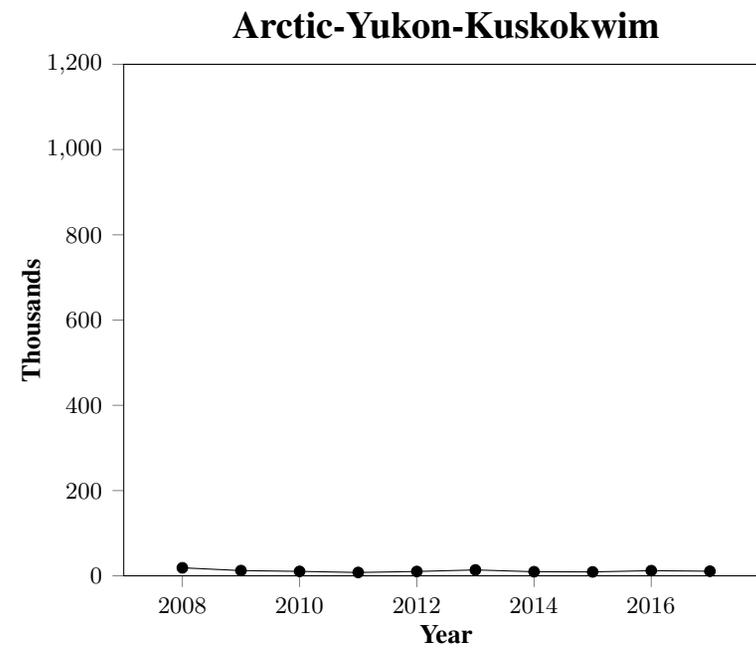
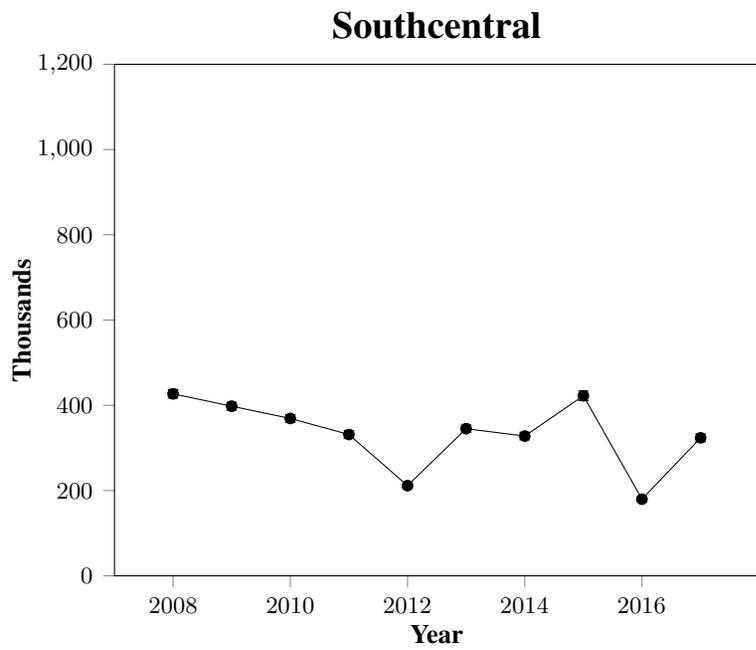
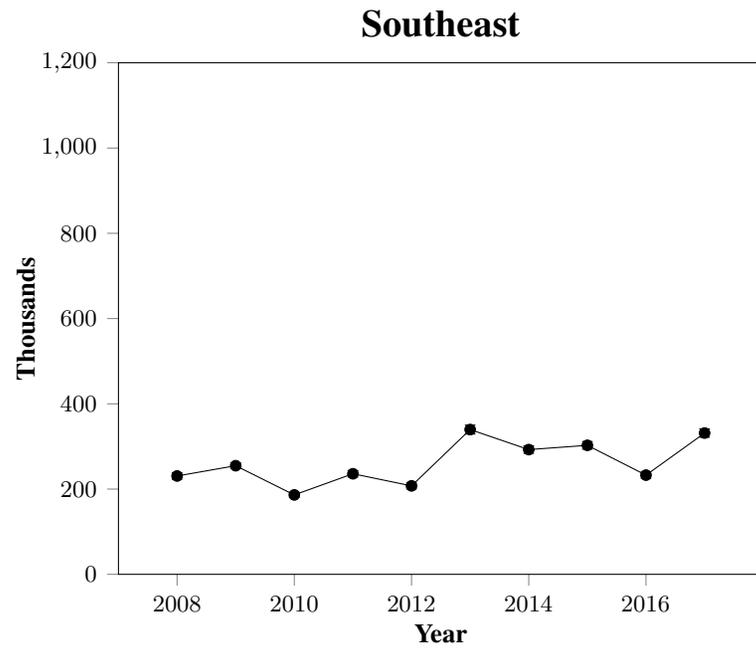
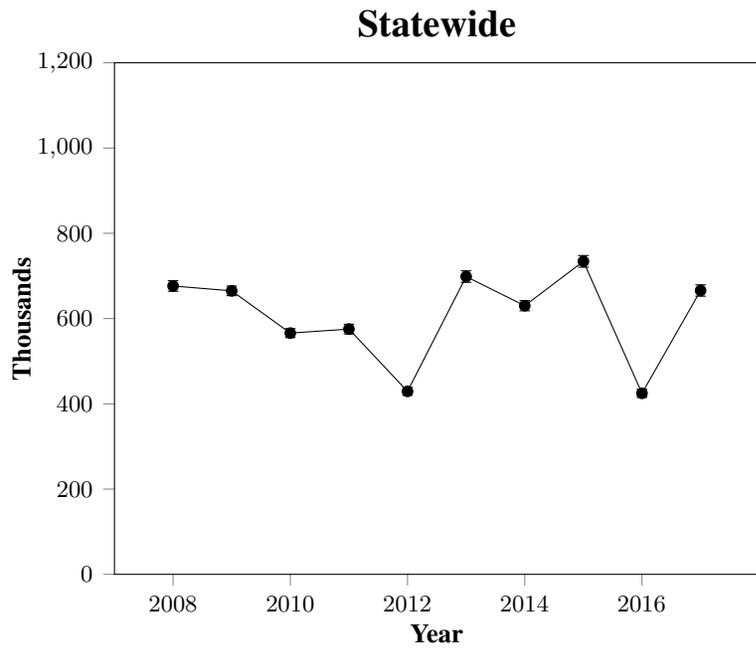


Figure 2.5.—Alaska sport sea-run coho salmon harvest estimates and standard errors, 2008–2017, by region.

Note: Trends in harvest estimates can reflect changes in the abundance of fish, changes in angler effort, fishery management actions that reduce or liberalize harvest, or a combination of these and other factors.

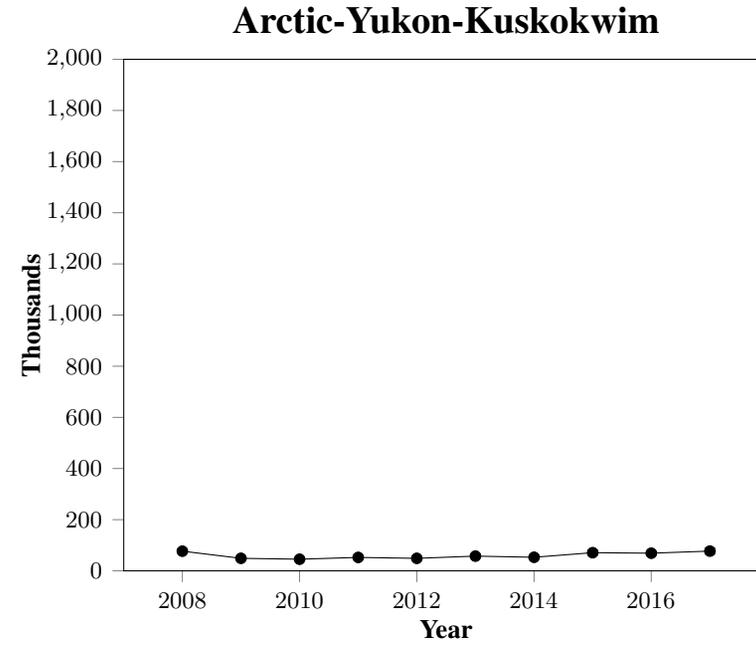
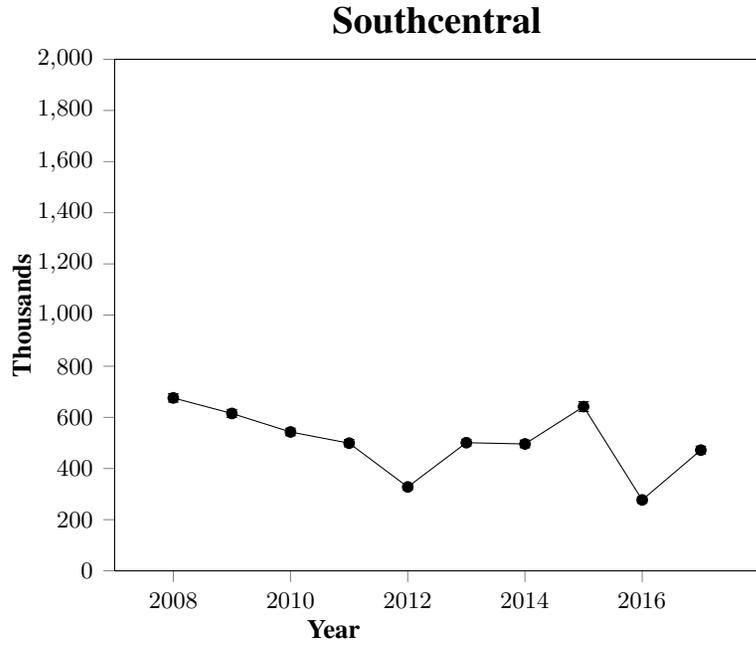
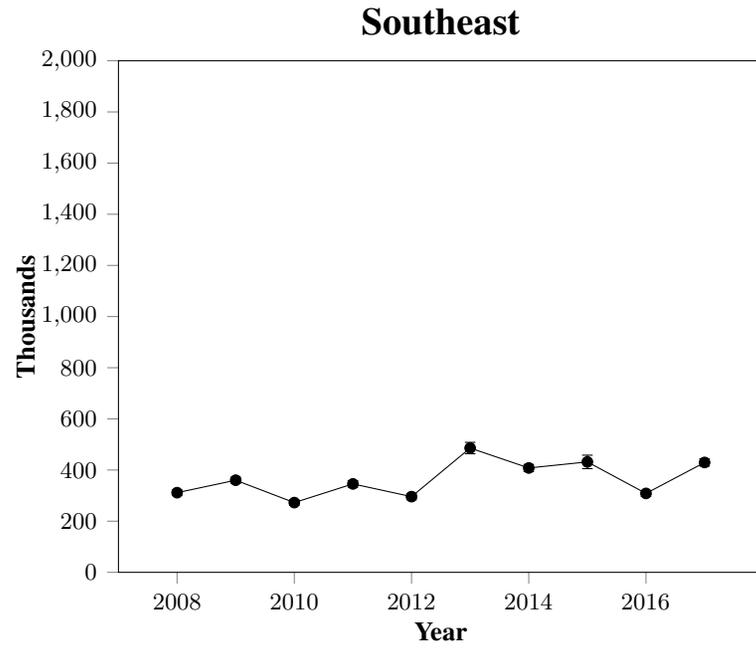
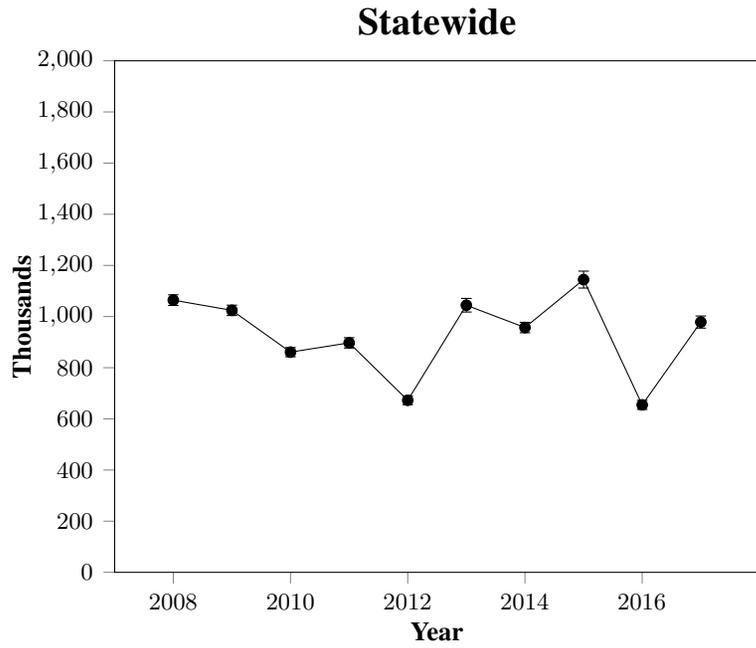


Figure 2.6.—Alaska sport sea-run coho salmon catch estimates and standard errors, 2008–2017, by region.

Note: Trends in catch estimates can reflect changes in the abundance of fish, changes in angler effort, fishery management actions that reduce or liberalize harvest, or a combination of these and other factors.

Table 2.42.—Alaska sport sockeye salmon harvest estimates, 2008–2017, by region and area.

Region/Area fished	Harvest estimates									
	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Southeast										
(A) Ketchikan	727	1,546	994	1,216	1,776	2,185	2,491	1,404	1,193	1,120
(B) Prince of Wales Island	1,337	1,364	926	2,482	1,611	2,784	1,650	2,254	1,718	858
(C) Kake, Petersburg, Wrangell, Stikine	763	1,264	184	402	283	716	346	622	460	391
(D) Sitka	407	725	1,729	1,504	1,686	2,189	1,150	1,192	2,007	2,126
(E) Juneau	2,556	2,177	1,822	982	1,130	1,988	1,063	896	1,457	322
(F1) Skagway	0	0	0	0	0	0	0	0	0	0
(F2) Haines	1,100	430	972	1,297	1,814	548	650	1,508	1,134	813
(G) Glacier Bay	252	538	255	932	906	1,010	241	2,336	522	1,419
(H) Yakutat	7,002	6,692	5,612	11,954	5,819	9,726	11,422	9,764	7,499	7,965
Southeast Total	14,144	14,736	12,494	20,769	15,025	21,146	19,013	19,976	15,990	15,014
Southcentral										
(J) North Gulf Coast/Prince William Sound ^a	13,507	20,064	12,613	16,855	10,036	15,201	16,608	11,749	18,381	17,804
(K) Knik Arm	6,695	5,997	5,630	3,719	2,685	2,749	2,252	2,183	3,473	1,263
(L) Anchorage	223	192	193	244	64	28	288	266	16	145
(M) Susitna River drainage ^a	4,689	9,783	5,449	5,906	5,395	9,360	6,095	5,411	10,207	5,092
(N) West Cook Inlet drainages ^a	5,652	4,261	5,232	4,412	4,966	5,003	6,796	5,525	5,973	5,961
(PF) Kenai Peninsula freshwater ^a	306,797	354,992	344,679	441,630	492,870	497,786	435,512	429,055	363,522	338,477
(PS) Cook Inlet saltwater	7,381	7,963	9,560	6,972	7,245	10,430	7,471	6,254	6,646	10,151
(Q) Kodiak	17,800	11,117	11,294	10,923	13,457	25,453	24,873	18,700	19,149	18,115
(R) Alaska Peninsula/Aleutian Islands	8,596	8,679	7,520	5,718	8,087	7,318	9,306	10,148	6,800	6,264
(S) Kvichak River drainage	9,346	9,580	7,075	7,569	6,540	5,383	5,834	10,828	7,659	13,025
(T) Nushagak, Wood River and Togiak	2,457	3,485	3,314	1,945	2,414	1,598	3,697	2,351	1,731	5,504
Southcentral Total	383,143	436,113	412,559	505,893	553,759	580,309	518,732	502,470	443,557	421,801
Arctic-Yukon-Kuskokwim										
(I) Upper Copper River drainage ^a	11,431	13,415	14,743	7,727	23,404	26,611	18,005	9,489	7,555	9,589
(U) Tanana River drainage	0	0	0	0	0	0	0	0	0	0
(V) Kuskokwim River/Kuskokwim Bay drainages	1,109	394	459	662	639	471	755	171	1,210	1,467
(W) Seward Peninsula/Norton Sound	260	0	0	58	28	23	0	271	83	184
(X) Northwest Alaska	0	0	0	0	0	0	0	0	0	0
(Y) Yukon River drainage	0	0	20	0	0	0	0	61	35	0
(Z) North Slope/Brooks Range	0	0	0	0	0	21	0	0	0	0
Arctic-Yukon-Kuskokwim Total	12,800	13,809	15,222	8,447	24,071	27,126	18,760	9,992	8,883	11,240
Alaska Total	410,087	464,658	440,275	535,109	592,855	628,581	556,505	532,438	468,430	448,055

^a Area estimates reflect present-day survey area boundaries. Totals may differ from those found in previously published reports due to area boundary changes that have occurred across study years.

Table 2.43.—Alaska sport sockeye salmon harvest estimate **standard errors**, 2008–2017, by region and area.

Region/Area fished	Harvest estimate standard errors									
	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Southeast										
(A) Ketchikan	266	605	386	337	598	804	637	352	343	490
(B) Prince of Wales Island	435	548	312	551	618	887	802	795	458	360
(C) Kake, Petersburg, Wrangell, Stikine	457	549	94	156	239	303	226	329	300	221
(D) Sitka	114	241	731	587	491	678	322	335	483	512
(E) Juneau	935	637	579	255	478	588	298	258	612	135
(F1) Skagway	0	0	0	0	0	0	0	0	0	0
(F2) Haines	360	111	320	402	696	242	193	471	672	255
(G) Glacier Bay	96	318	122	321	418	346	105	825	292	589
(H) Yakutat	1,476	1,041	1,010	1,925	1,004	1,937	1,772	1,807	1,497	1,622
Southeast Total	1,944	1,704	1,490	2,131	1,716	2,559	2,073	2,224	1,926	1,915
Southcentral										
(J) North Gulf Coast/Prince William Sound ^a	1,731	2,255	1,760	2,781	1,451	2,549	2,696	1,725	2,721	2,616
(K) Knik Arm	1,054	826	1,052	670	815	671	495	383	746	448
(L) Anchorage	128	101	121	224	38	28	169	132	16	110
(M) Susitna River drainage ^a	999	1,496	1,172	950	1,465	1,672	847	1,031	1,795	1,077
(N) West Cook Inlet drainages ^a	780	567	1,011	635	689	688	892	934	1,441	1,155
(PF) Kenai Peninsula freshwater ^a	10,626	12,215	11,401	14,644	15,391	16,110	13,074	13,597	13,811	11,582
(PS) Cook Inlet saltwater	1,255	1,506	1,911	1,329	1,329	1,957	1,597	870	1,218	1,663
(Q) Kodiak	2,280	1,429	1,852	1,580	1,963	3,474	3,058	2,899	3,115	3,333
(R) Alaska Peninsula/Aleutian Islands	1,376	2,031	1,516	1,301	1,953	2,000	1,862	1,861	1,554	1,446
(S) Kvichak River drainage	1,522	1,263	1,415	1,469	1,263	1,247	1,176	2,533	1,599	3,097
(T) Nushagak, Wood River and Togiak	636	811	856	580	619	479	1,029	521	512	1,237
Southcentral Total	11,177	12,931	12,139	15,070	15,708	17,098	14,258	14,626	14,455	13,106
Arctic-Yukon-Kuskokwim										
(I) Upper Copper River drainage ^a	1,865	2,005	2,154	1,508	3,866	3,511	3,820	1,857	1,729	2,060
(U) Tanana River drainage	0	0	0	0	0	0	0	0	0	0
(V) Kuskokwim River/Kuskokwim Bay drainages	456	149	157	274	237	177	294	72	479	750
(W) Seward Peninsula/Norton Sound	136	0	0	47	29	23	0	250	66	155
(X) Northwest Alaska	0	0	0	0	0	0	0	0	0	0
(Y) Yukon River drainage	0	0	21	0	0	0	0	45	36	0
(Z) North Slope/Brooks Range	0	0	0	0	0	22	0	0	0	0
Arctic-Yukon-Kuskokwim Total	1,903	2,014	2,154	1,536	3,874	3,515	3,835	1,877	1,775	2,219
Alaska Total	11,411	13,228	12,301	15,252	16,267	17,734	14,741	14,844	14,586	13,226

^a Area estimates reflect present-day survey area boundaries. Totals may differ from those found in previously published reports due to area boundary changes that have occurred across study years.

Table 2.44.—Alaska sport sockeye salmon catch estimates, 2008–2017, by region and area.

Region/Area fished	Catch estimates									
	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Southeast										
(A) Ketchikan	2,510	1,854	1,138	2,534	1,847	3,361	3,767	1,833	1,587	1,539
(B) Prince of Wales Island	3,622	2,207	2,069	5,834	3,044	3,989	3,839	4,867	3,727	1,134
(C) Kake, Petersburg, Wrangell, Stikine	1,146	2,126	213	613	298	1,262	382	622	494	431
(D) Sitka	1,021	1,177	2,454	2,411	2,851	3,470	2,259	2,633	3,422	3,034
(E) Juneau	3,280	3,851	3,049	1,390	2,333	2,621	1,429	1,476	1,794	1,080
(F1) Skagway	0	11	0	0	0	0	0	0	0	0
(F2) Haines	2,678	823	1,378	2,365	2,773	1,365	1,049	2,123	1,382	1,537
(G) Glacier Bay	361	925	850	2,129	1,253	1,154	439	3,012	687	1,439
(H) Yakutat	10,958	14,058	11,879	26,246	11,925	18,701	16,680	19,065	14,463	12,145
Southeast Total	25,576	27,032	23,030	43,522	26,324	35,923	29,844	35,631	27,556	22,339
Southcentral										
(J) North Gulf Coast/Prince William Sound ^a	19,377	24,564	14,898	19,873	13,293	19,616	21,201	15,434	19,234	21,966
(K) Knik Arm	8,836	11,248	7,751	5,066	4,423	3,401	4,659	2,806	6,037	1,866
(L) Anchorage	1,719	663	618	535	220	172	656	342	423	992
(M) Susitna River drainage ^a	13,803	19,684	12,121	14,610	11,420	17,953	11,468	16,851	16,136	9,464
(N) West Cook Inlet drainages ^a	10,315	8,007	7,767	8,642	8,234	7,408	12,973	9,099	8,853	9,074
(PF) Kenai Peninsula freshwater ^a	469,990	524,462	503,164	669,111	720,828	726,228	574,995	593,808	484,618	471,189
(PS) Cook Inlet saltwater	9,048	10,616	11,580	8,930	9,404	12,019	9,720	8,005	8,240	12,379
(Q) Kodiak	44,528	25,349	18,725	20,882	22,164	41,004	38,929	26,591	28,660	31,194
(R) Alaska Peninsula/Aleutian Islands	21,847	26,507	16,881	16,994	17,313	13,064	26,077	20,658	18,851	17,969
(S) Kvichak River drainage	36,744	31,914	26,103	25,263	23,077	20,721	22,710	28,031	23,157	30,349
(T) Nushagak, Wood River and Togiak	9,697	9,554	8,959	9,511	7,121	6,619	12,162	8,763	6,433	12,514
Southcentral Total	645,904	692,568	628,567	799,417	837,497	868,205	735,550	730,388	620,642	618,956
Arctic-Yukon-Kuskokwim										
(I) Upper Copper River drainage ^a	16,912	19,788	19,489	11,873	30,364	36,246	24,943	13,654	8,718	12,465
(U) Tanana River drainage	0	0	0	0	0	0	0	0	0	0
(V) Kuskokwim River/Kuskokwim Bay drainages	9,824	3,595	7,646	8,301	4,802	5,734	7,768	7,441	6,790	10,306
(W) Seward Peninsula/Norton Sound	446	112	0	72	28	23	0	299	98	457
(X) Northwest Alaska	0	0	0	0	0	0	0	0	0	0
(Y) Yukon River drainage	113	34	85	43	11	47	143	89	66	0
(Z) North Slope/Brooks Range	0	0	0	0	0	21	0	0	0	0
Arctic-Yukon-Kuskokwim Total	27,295	23,529	27,220	20,289	35,205	42,071	32,854	21,483	15,672	23,228
Alaska Total	698,775	743,129	678,817	863,228	899,026	946,199	798,248	787,502	663,870	664,523

^a Area estimates reflect present-day survey area boundaries. Totals may differ from those found in previously published reports due to area boundary changes that have occurred across study years.

Table 2.45.—Alaska sport sockeye salmon catch estimate **standard errors**, 2008–2017, by region and area.

Region/Area fished	Catch estimate standard errors									
	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Southeast										
(A) Ketchikan	1,457	631	396	669	601	955	936	410	449	531
(B) Prince of Wales Island	1,272	624	513	1,689	927	1,020	1,178	1,876	1,055	418
(C) Kake, Petersburg, Wrangell, Stikine	555	848	107	230	238	451	227	329	300	225
(D) Sitka	429	320	1,015	932	755	841	525	1,097	695	887
(E) Juneau	1,011	933	907	304	730	852	398	379	628	343
(F1) Skagway	0	11	0	0	0	0	0	0	0	0
(F2) Haines	1,158	182	404	687	804	438	360	566	687	475
(G) Glacier Bay	113	419	487	703	459	352	213	947	306	589
(H) Yakutat	2,044	2,390	2,893	5,257	2,716	4,051	2,701	4,354	2,742	2,467
Southeast Total	3,306	3,006	3,238	5,624	3,242	4,575	3,136	4,911	3,124	2,861
Southcentral										
(J) North Gulf Coast/Prince William Sound ^a	2,383	2,651	2,030	2,986	2,091	2,897	3,642	2,135	2,748	3,496
(K) Knik Arm	1,328	2,427	1,290	1,066	1,763	735	1,495	444	1,703	561
(L) Anchorage	565	303	241	274	82	92	342	142	262	584
(M) Susitna River drainage ^a	2,311	2,574	2,373	2,156	2,636	2,993	1,553	3,257	2,628	1,822
(N) West Cook Inlet drainages ^a	2,022	1,089	1,598	1,315	1,111	1,013	1,690	1,528	1,837	1,668
(PF) Kenai Peninsula freshwater ^a	16,674	19,534	17,538	23,548	23,205	23,719	17,012	23,476	17,962	19,240
(PS) Cook Inlet saltwater	1,426	1,918	2,170	1,693	1,504	2,154	1,895	1,178	1,493	2,025
(Q) Kodiak	9,197	4,039	2,828	3,080	3,045	5,417	4,531	3,533	4,379	5,149
(R) Alaska Peninsula/Aleutian Islands	2,809	4,851	2,490	2,737	2,773	2,533	3,713	2,749	3,483	2,677
(S) Kvichak River drainage	6,300	4,084	4,434	4,065	4,025	3,730	3,567	4,750	5,781	4,955
(T) Nushagak, Wood River and Togiak	1,871	1,910	2,032	2,123	1,790	1,796	3,028	1,575	2,219	1,995
Southcentral Total	20,405	21,524	18,907	24,387	23,978	25,338	19,491	24,899	19,936	21,207
Arctic-Yukon-Kuskokwim										
(I) Upper Copper River drainage ^a	3,019	2,940	2,683	2,210	4,586	4,754	4,689	3,681	1,815	3,127
(U) Tanana River drainage	0	0	0	0	0	0	0	0	0	0
(V) Kuskokwim River/Kuskokwim Bay drainages	2,280	886	1,532	2,870	1,008	1,329	1,598	3,488	1,592	2,317
(W) Seward Peninsula/Norton Sound	205	114	0	49	29	23	0	255	68	424
(X) Northwest Alaska	0	0	0	0	0	0	0	0	0	0
(Y) Yukon River drainage	81	34	55	44	11	36	82	69	47	0
(Z) North Slope/Brooks Range	0	0	0	0	0	22	0	0	0	0
Arctic-Yukon-Kuskokwim Total	3,720	3,036	3,064	3,661	4,646	4,962	4,914	5,097	2,375	3,906
Alaska Total	20,897	21,906	19,233	25,249	24,594	26,189	20,253	25,574	20,148	21,235

^a Area estimates reflect present-day survey area boundaries. Totals may differ from those found in previously published reports due to area boundary changes that have occurred across study years.

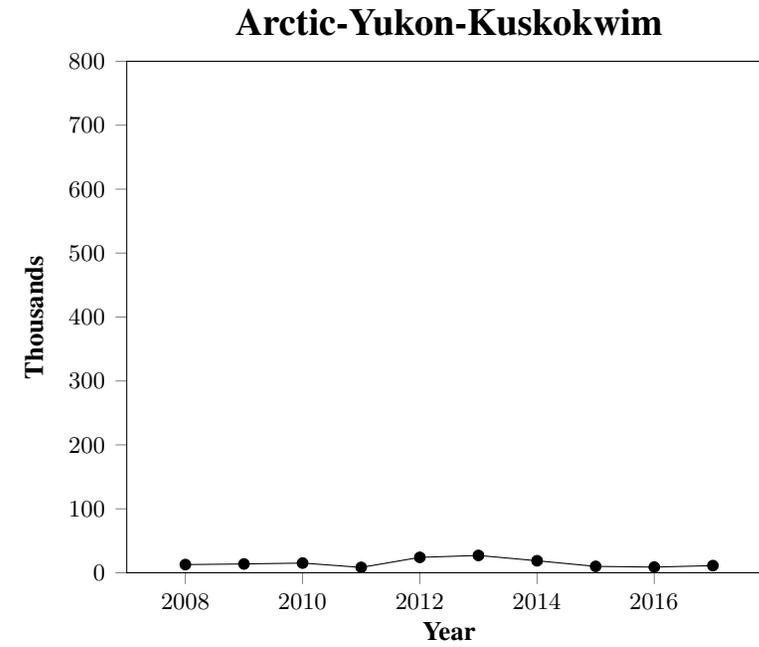
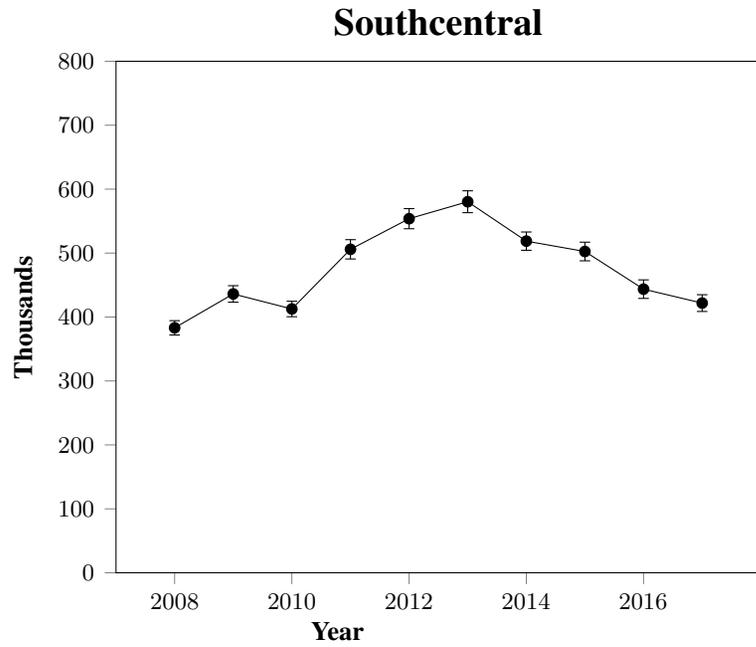
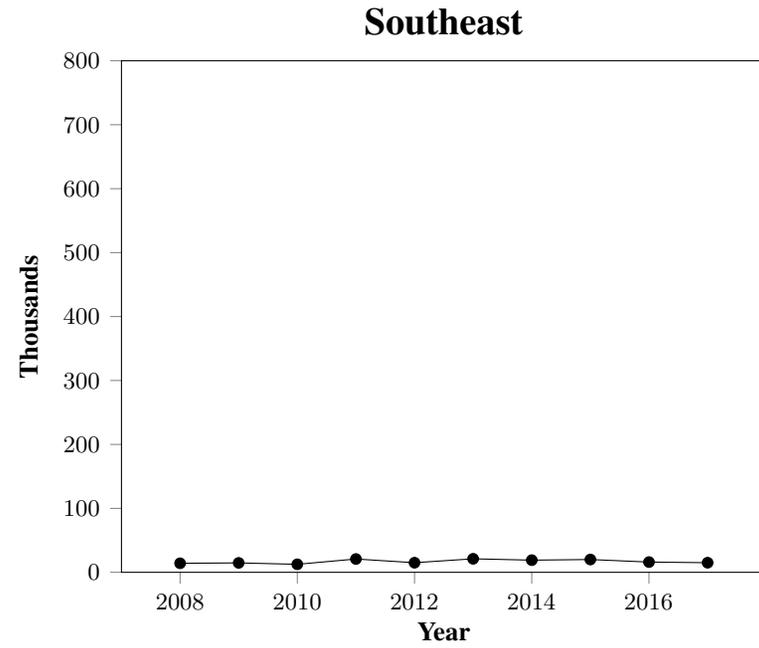
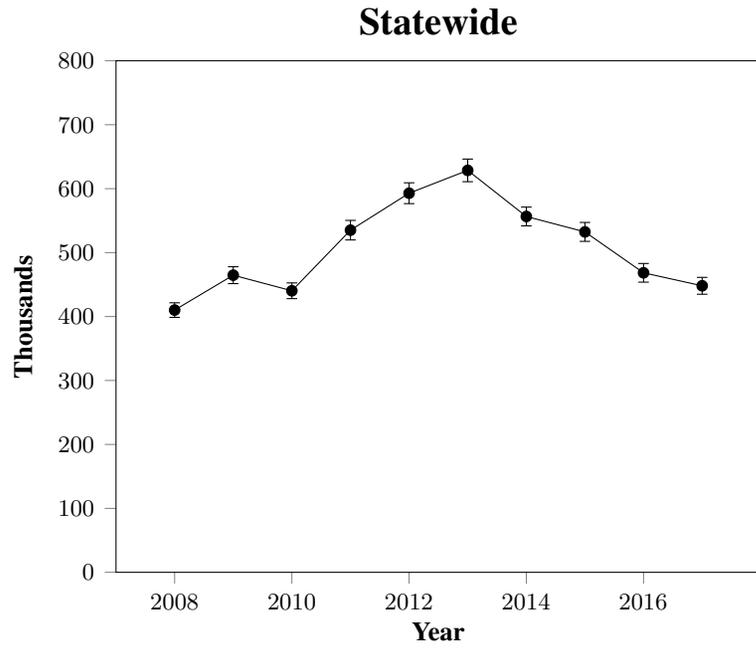


Figure 2.7.—Alaska sport sockeye salmon harvest estimates and standard errors, 2008–2017, by region.

Note: Trends in harvest estimates can reflect changes in the abundance of fish, changes in angler effort, fishery management actions that reduce or liberalize harvest, or a combination of these and other factors.

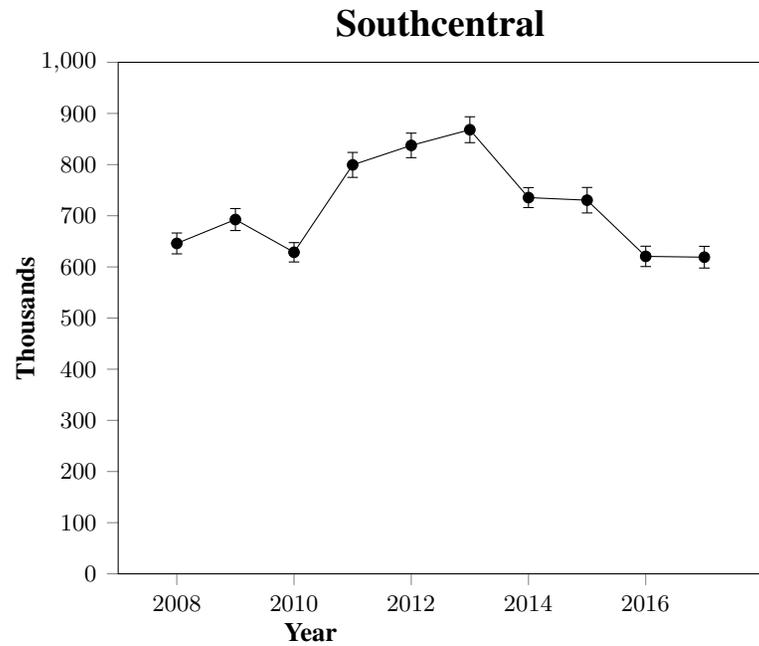
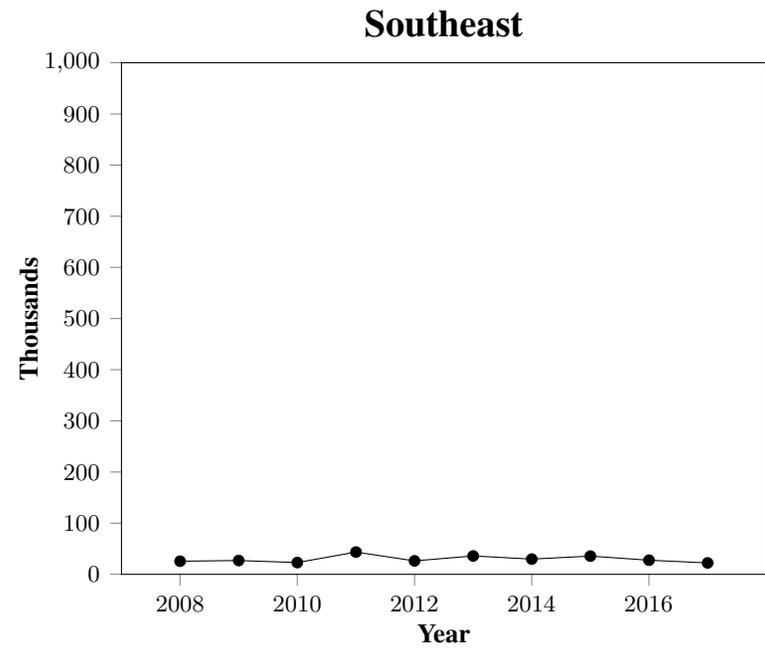
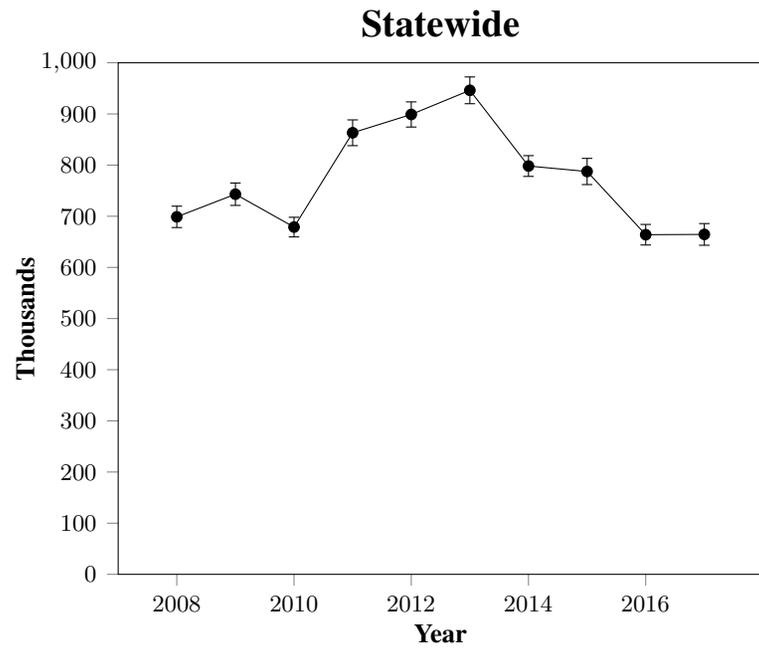


Figure 2.8.—Alaska sport sockeye salmon catch estimates and standard errors, 2008–2017, by region.

Note: Trends in catch estimates can reflect changes in the abundance of fish, changes in angler effort, fishery management actions that reduce or liberalize harvest, or a combination of these and other factors.

Table 2.46.—Alaska sport pink salmon harvest estimates, 2008–2017, by region and area.

Region/Area fished	Harvest estimates									
	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Southeast										
(A) Ketchikan	25,099	32,907	27,919	15,859	24,971	36,084	21,659	26,763	35,712	21,927
(B) Prince of Wales Island	14,817	16,899	11,803	12,578	11,771	18,043	13,299	15,720	21,451	19,021
(C) Kake, Petersburg, Wrangell, Stikine	1,195	3,783	1,013	1,097	1,217	4,948	2,028	2,805	4,687	3,119
(D) Sitka	4,708	6,241	5,099	5,468	4,697	7,921	4,590	4,923	7,817	7,072
(E) Juneau	4,372	11,319	5,717	9,305	5,528	13,945	4,269	12,202	6,889	11,033
(F1) Skagway	81	1,285	45	304	110	1,335	47	279	298	1,266
(F2) Haines	761	2,970	1,712	1,787	2,485	3,148	704	2,062	632	4,788
(G) Glacier Bay	3,867	15,616	4,709	10,295	5,222	11,563	3,737	13,401	4,387	12,591
(H) Yakutat	784	1,335	1,903	2,309	500	2,415	410	1,524	1,500	2,666
Southeast Total	55,684	92,355	59,920	59,002	56,501	99,402	50,743	79,679	83,373	83,483
Southcentral										
(J) North Gulf Coast/Prince William Sound ^a	30,211	25,815	23,754	17,172	21,244	16,004	15,383	24,060	17,234	20,632
(K) Knik Arm	304	370	919	294	166	180	761	338	239	122
(L) Anchorage	2,032	6,426	2,578	893	1,488	2,447	1,473	2,382	631	2,331
(M) Susitna River drainage ^a	2,289	5,518	2,040	1,696	1,681	3,211	1,894	2,785	2,326	2,692
(N) West Cook Inlet drainages ^a	9	181	183	25	33	0	0	0	0	42
(PF) Kenai Peninsula freshwater ^a	22,140	10,602	15,625	5,495	20,595	4,498	28,988	8,976	28,215	10,920
(PS) Cook Inlet saltwater	2,526	2,159	2,810	2,257	2,218	4,967	3,115	7,989	7,858	9,015
(Q) Kodiak	8,602	11,118	4,886	6,751	10,360	10,046	7,015	12,926	6,705	6,412
(R) Alaska Peninsula/Aleutian Islands	1,366	2,750	1,455	468	1,496	526	1,241	704	593	1,034
(S) Kvichak River drainage	296	12	470	10	625	94	76	37	416	35
(T) Nushagak, Wood River and Togiak	553	23	612	9	664	0	455	23	379	18
Southcentral Total	70,328	64,974	55,332	35,070	60,570	41,973	60,401	60,220	64,596	53,253
Arctic-Yukon-Kuskokwim										
(I) Upper Copper River drainage ^a	0	0	0	0	0	0	0	0	0	0
(U) Tanana River drainage	0	0	0	0	0	0	0	0	0	0
(V) Kuskokwim River/Kuskokwim Bay drainages	32	337	80	0	136	39	91	0	419	34
(W) Seward Peninsula/Norton Sound	8,259	1,305	2,717	566	3,220	1,806	4,603	1,381	8,368	962
(X) Northwest Alaska	27	0	0	0	0	0	0	242	161	0
(Y) Yukon River drainage	0	0	0	0	51	0	0	136	70	0
(Z) North Slope/Brooks Range	216	0	0	0	0	0	0	0	36	0
Arctic-Yukon-Kuskokwim Total	8,534	1,642	2,797	566	3,407	1,845	4,694	1,759	9,054	996
Alaska Total	134,546	158,971	118,049	94,638	120,478	143,220	115,838	141,658	157,023	137,732

^a Area estimates reflect present-day survey area boundaries. Totals may differ from those found in previously published reports due to area boundary changes that have occurred across study years.

Table 2.47.--Alaska sport pink salmon harvest estimate **standard errors**, 2008–2017, by region and area.

Region/Area fished	Harvest estimate standard errors									
	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Southeast										
(A) Ketchikan	2,527	2,341	3,401	1,303	2,492	3,066	1,979	3,106	3,130	1,981
(B) Prince of Wales Island	2,482	1,958	1,482	1,377	1,529	2,279	1,607	1,690	2,448	2,447
(C) Kake, Petersburg, Wrangell, Stikine	398	836	299	274	361	1,080	532	585	1,231	686
(D) Sitka	644	837	807	848	716	923	716	720	1,074	1,370
(E) Juneau	775	1,446	801	993	849	2,133	673	2,039	1,218	1,537
(F1) Skagway	53	486	28	133	62	536	48	112	233	657
(F2) Haines	254	760	453	389	660	679	286	407	291	1,016
(G) Glacier Bay	654	1,803	883	1,646	1,208	1,642	675	1,746	895	1,802
(H) Yakutat	226	472	749	679	212	1,154	203	460	740	949
Southeast Total	3,799	4,039	4,086	2,938	3,348	4,878	2,860	4,629	4,585	4,584
Southcentral										
(J) North Gulf Coast/Prince William Sound ^a	2,769	2,271	2,955	2,052	2,098	1,669	1,580	2,845	2,441	1,835
(K) Knik Arm	105	117	314	164	86	85	272	138	105	72
(L) Anchorage	420	1,276	1,009	198	478	1,648	369	497	193	578
(M) Susitna River drainage ^a	460	820	421	379	308	563	334	784	605	810
(N) West Cook Inlet drainages ^a	9	105	139	18	20	0	0	0	0	29
(PF) Kenai Peninsula freshwater ^a	1,761	1,625	1,544	1,170	2,263	827	2,415	1,438	2,051	1,310
(PS) Cook Inlet saltwater	438	407	550	485	403	773	509	960	1,332	1,061
(Q) Kodiak	1,350	1,294	698	1,053	1,573	1,214	2,056	2,940	1,105	913
(R) Alaska Peninsula/Aleutian Islands	600	1,378	739	203	545	204	391	310	261	375
(S) Kvichak River drainage	127	12	222	10	432	80	50	28	385	35
(T) Nushagak, Wood River and Togiak	233	17	253	9	304	0	162	23	143	18
Southcentral Total	3,681	3,546	3,735	2,649	3,511	2,940	3,674	4,723	3,672	2,868
Arctic-Yukon-Kuskokwim										
(I) Upper Copper River drainage ^a	0	0	0	0	0	0	0	0	0	0
(U) Tanana River drainage	0	0	0	0	0	0	0	0	0	0
(V) Kuskokwim River/Kuskokwim Bay drainages	24	171	56	0	53	38	57	0	209	24
(W) Seward Peninsula/Norton Sound	1,925	507	1,123	250	906	897	1,921	489	2,548	420
(X) Northwest Alaska	19	0	0	0	0	0	0	158	161	0
(Y) Yukon River drainage	0	0	0	0	50	0	0	135	54	0
(Z) North Slope/Brooks Range	215	0	0	0	0	0	0	0	38	0
Arctic-Yukon-Kuskokwim Total	1,935	541	1,126	250	910	898	1,924	531	2,568	421
Alaska Total	5,503	5,329	5,576	3,849	4,973	5,635	5,067	6,629	6,422	5,263

^a Area estimates reflect present-day survey area boundaries. Totals may differ from those found in previously published reports due to area boundary changes that have occurred across study years.

Table 2.48.—Alaska sport pink salmon catch estimates, 2008–2017, by region and area.

Region/Area fished	Catch estimates									
	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Southeast										
(A) Ketchikan	54,731	102,422	50,935	29,463	48,546	88,248	37,438	43,683	52,432	39,165
(B) Prince of Wales Island	54,322	88,014	49,270	60,365	53,485	64,946	80,466	69,577	77,664	60,668
(C) Kake, Petersburg, Wrangell, Stikine	2,293	11,578	3,115	3,917	4,186	10,339	3,030	6,766	7,931	10,789
(D) Sitka	20,409	29,441	23,689	23,369	36,174	54,992	24,386	33,470	36,673	47,757
(E) Juneau	20,360	56,307	26,485	31,678	21,057	50,131	13,129	50,120	18,634	37,226
(F1) Skagway	266	5,949	572	995	259	3,309	435	628	996	2,937
(F2) Haines	4,041	13,221	5,880	6,773	9,560	7,585	2,330	16,789	1,768	15,744
(G) Glacier Bay	11,093	33,595	16,921	29,975	12,507	33,275	11,224	32,822	10,379	31,792
(H) Yakutat	10,821	9,324	17,261	22,887	8,788	11,718	3,359	9,151	7,480	24,484
Southeast Total	178,336	349,851	194,128	209,422	194,562	324,543	175,797	263,006	213,957	270,562
Southcentral										
(J) North Gulf Coast/Prince William Sound ^a	106,098	81,810	61,935	61,657	55,630	58,012	43,927	78,459	41,054	66,347
(K) Knik Arm	3,361	3,355	5,109	1,734	1,340	914	2,771	1,430	3,697	1,603
(L) Anchorage	30,004	62,996	14,625	15,241	8,587	9,568	12,941	19,236	5,271	23,062
(M) Susitna River drainage ^a	43,250	108,978	49,229	29,170	41,089	49,059	27,839	67,682	34,333	38,171
(N) West Cook Inlet drainages ^a	730	1,501	789	135	541	908	1,117	470	452	999
(PF) Kenai Peninsula freshwater ^a	229,304	57,490	126,153	20,056	159,741	23,214	197,940	30,531	154,439	47,795
(PS) Cook Inlet saltwater	6,718	5,031	6,593	5,609	10,940	11,336	7,628	19,111	14,089	18,069
(Q) Kodiak	50,063	76,975	34,808	44,624	58,839	80,088	38,791	68,627	37,504	51,331
(R) Alaska Peninsula/Aleutian Islands	14,807	7,675	11,285	3,059	9,309	3,116	15,922	8,367	11,371	11,089
(S) Kvichak River drainage	11,470	606	15,267	125	8,696	732	11,730	545	7,231	631
(T) Nushagak, Wood River and Togiak	9,028	1,262	11,086	208	26,911	790	9,172	2,359	13,454	2,324
Southcentral Total	504,833	407,679	336,879	181,618	381,623	237,737	369,778	296,817	322,895	261,421
Arctic-Yukon-Kuskokwim										
(I) Upper Copper River drainage ^a	0	0	0	0	0	0	0	0	0	0
(U) Tanana River drainage	0	0	0	0	0	0	0	0	0	0
(V) Kuskokwim River/Kuskokwim Bay drainages	19,854	1,650	10,370	1,105	10,950	1,299	8,604	2,747	12,371	4,443
(W) Seward Peninsula/Norton Sound	38,630	7,801	8,194	3,134	6,996	4,147	8,780	5,608	26,353	7,209
(X) Northwest Alaska	144	396	50	0	0	0	0	242	161	32
(Y) Yukon River drainage	2,072	0	1,768	92	802	78	258	409	2,753	0
(Z) North Slope/Brooks Range	642	0	0	0	66	0	0	19	36	42
Arctic-Yukon-Kuskokwim Total	61,342	9,847	20,382	4,331	18,814	5,524	17,642	9,025	41,674	11,726
Alaska Total	744,511	767,377	551,389	395,371	594,999	567,804	563,217	568,848	578,526	543,709

^a Area estimates reflect present-day survey area boundaries. Totals may differ from those found in previously published reports due to area boundary changes that have occurred across study years.

Table 2.49.—Alaska sport pink salmon catch estimate **standard errors**, 2008–2017, by region and area.

Region/Area fished	Catch estimate standard errors									
	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Southeast										
(A) Ketchikan	5,422	10,571	4,509	2,624	4,936	16,806	3,112	4,280	4,223	3,125
(B) Prince of Wales Island	5,770	11,274	4,645	5,799	7,613	6,495	8,654	11,736	8,019	8,536
(C) Kake, Petersburg, Wrangell, Stikine	638	2,449	690	761	1,435	1,889	670	1,572	1,712	2,005
(D) Sitka	1,946	2,920	2,237	2,384	13,235	6,170	3,874	9,933	4,089	6,780
(E) Juneau	2,469	7,136	3,105	2,881	2,747	7,003	1,886	6,687	2,742	3,726
(F1) Skagway	149	1,400	262	312	128	1,081	351	195	683	999
(F2) Haines	1,860	2,367	1,170	1,293	1,978	1,440	575	4,367	458	2,972
(G) Glacier Bay	1,716	3,328	3,824	4,380	2,339	4,259	2,210	3,465	1,689	3,594
(H) Yakutat	2,024	1,956	4,203	4,842	2,293	3,183	1,103	1,769	1,739	4,940
Southeast Total	9,358	18,472	9,687	9,908	16,853	20,958	10,737	18,323	10,907	13,725
Southcentral										
(J) North Gulf Coast/Prince William Sound ^a	9,290	6,018	4,957	7,302	4,511	4,747	4,697	6,878	4,731	4,982
(K) Knik Arm	773	774	968	624	497	298	689	466	1,381	782
(L) Anchorage	3,981	10,512	3,087	5,416	1,491	2,554	2,451	4,621	1,270	4,561
(M) Susitna River drainage ^a	5,474	13,377	6,421	3,048	4,477	5,344	3,211	21,228	5,892	6,119
(N) West Cook Inlet drainages ^a	550	547	425	46	229	511	553	278	299	768
(PF) Kenai Peninsula freshwater ^a	17,185	6,208	8,727	3,618	21,002	3,186	12,146	3,248	9,045	4,730
(PS) Cook Inlet saltwater	1,107	1,028	1,012	850	3,661	1,697	1,318	2,742	2,551	2,135
(Q) Kodiak	7,072	7,465	3,723	4,288	6,946	9,745	7,115	8,907	5,755	7,508
(R) Alaska Peninsula/Aleutian Islands	3,691	2,207	2,294	804	2,426	1,445	3,602	1,945	2,589	3,739
(S) Kvichak River drainage	4,932	266	4,781	61	2,655	370	4,349	193	2,289	265
(T) Nushagak, Wood River and Togiak	1,887	471	4,447	81	11,998	264	2,357	1,187	5,658	851
Southcentral Total	22,972	20,115	14,820	11,367	26,996	12,900	16,600	24,895	14,947	13,620
Arctic-Yukon-Kuskokwim										
(I) Upper Copper River drainage ^a	0	0	0	0	0	0	0	0	0	0
(U) Tanana River drainage	0	0	0	0	0	0	0	0	0	0
(V) Kuskokwim River/Kuskokwim Bay drainages	5,831	435	2,049	329	2,457	440	1,602	833	2,823	919
(W) Seward Peninsula/Norton Sound	10,160	2,243	2,355	921	1,626	1,252	2,643	1,719	6,730	2,426
(X) Northwest Alaska	95	273	34	0	0	0	0	158	161	22
(Y) Yukon River drainage	1,034	0	776	73	488	67	181	312	1,470	0
(Z) North Slope/Brooks Range	371	0	0	0	67	0	0	19	38	30
Arctic-Yukon-Kuskokwim Total	11,649	2,311	3,082	988	3,071	1,326	3,116	1,906	7,621	2,547
Alaska Total	27,526	27,397	17,836	14,915	32,265	24,985	20,104	30,619	19,113	19,223

^a Area estimates reflect present-day survey area boundaries. Totals may differ from those found in previously published reports due to area boundary changes that have occurred across study years.

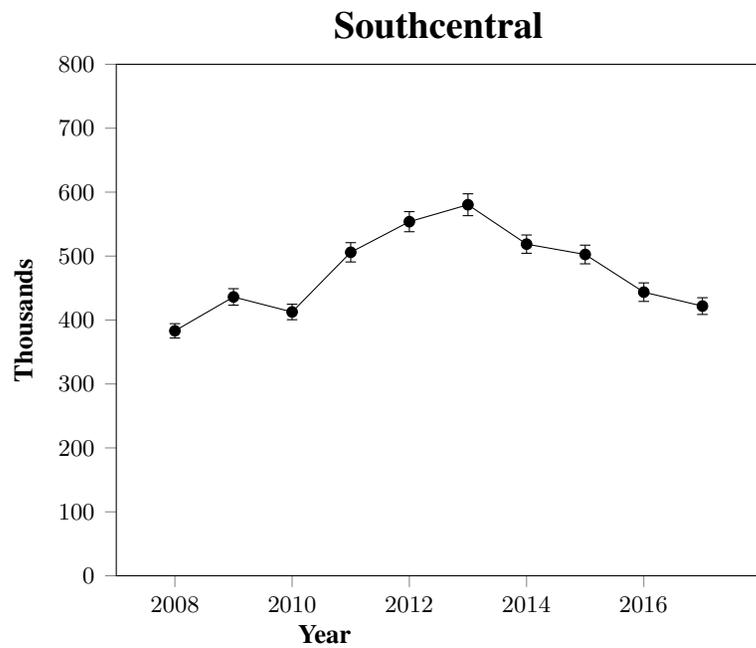
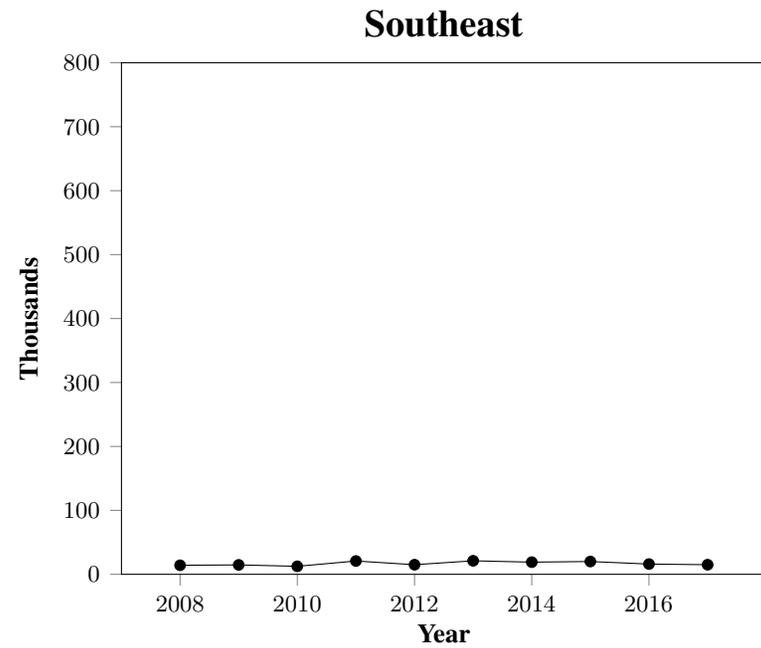
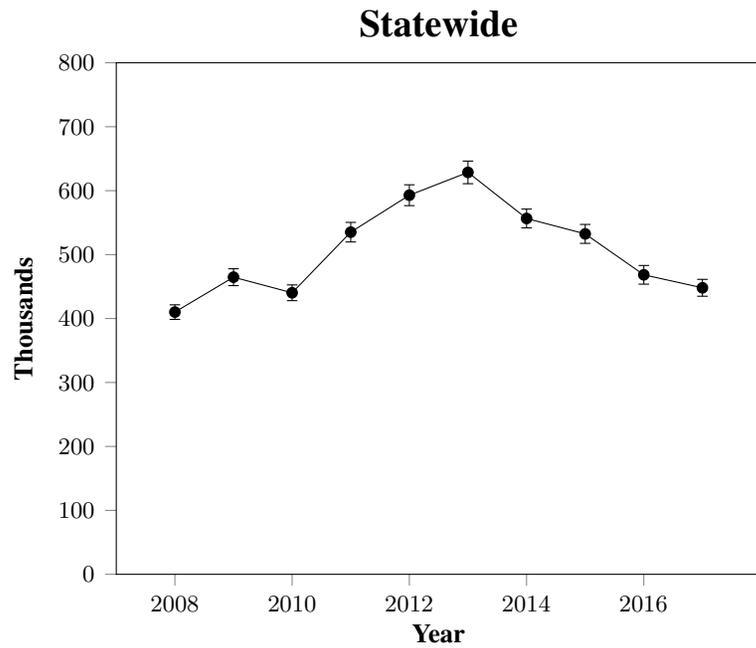


Figure 2.9.—Alaska sport sockeye salmon harvest estimates and standard errors, 2008–2017, by region.

Note: Trends in harvest estimates can reflect changes in the abundance of fish, changes in angler effort, fishery management actions that reduce or liberalize harvest, or a combination of these and other factors.

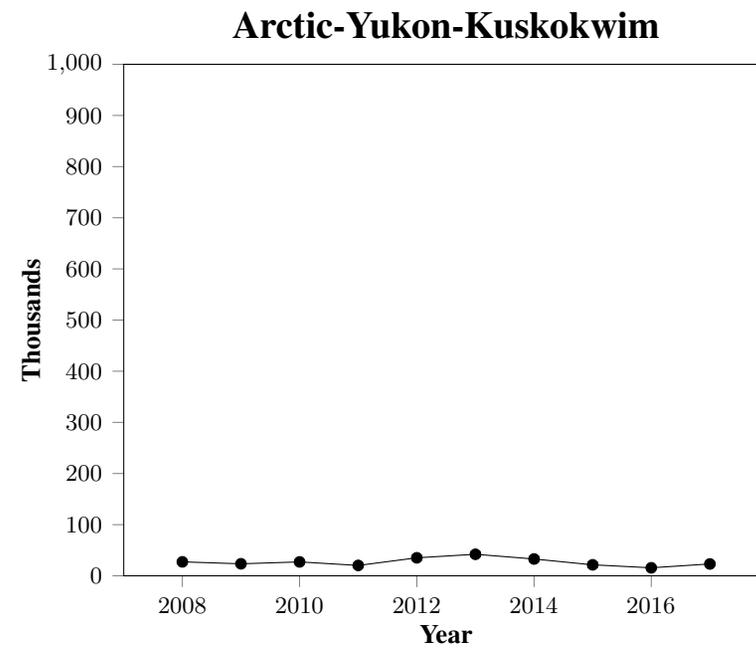
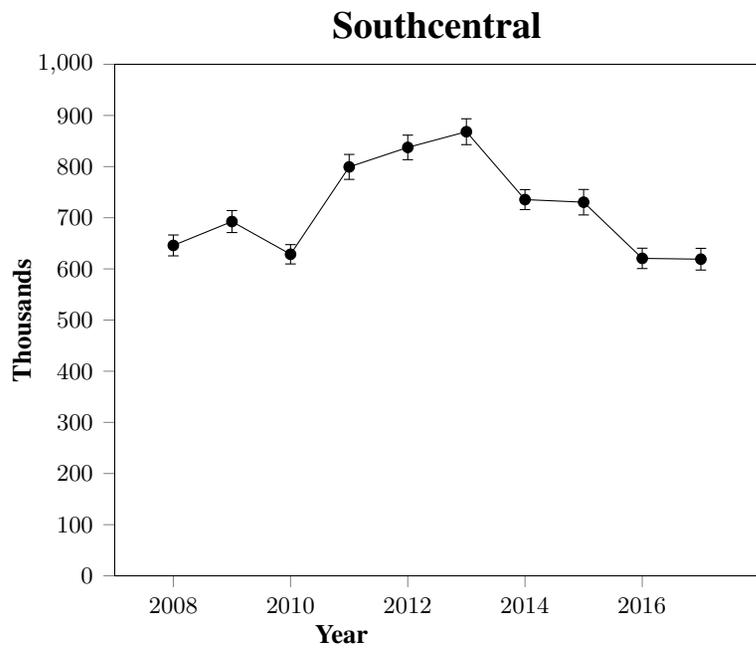
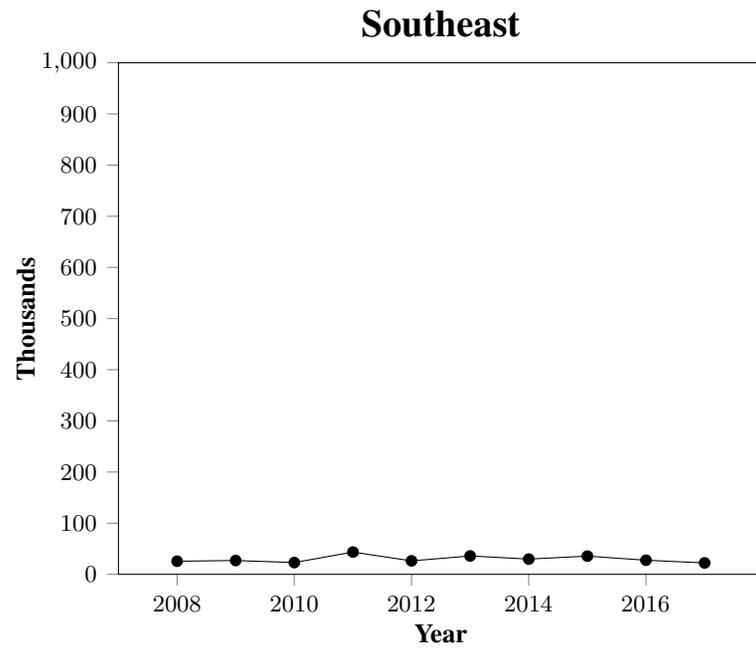
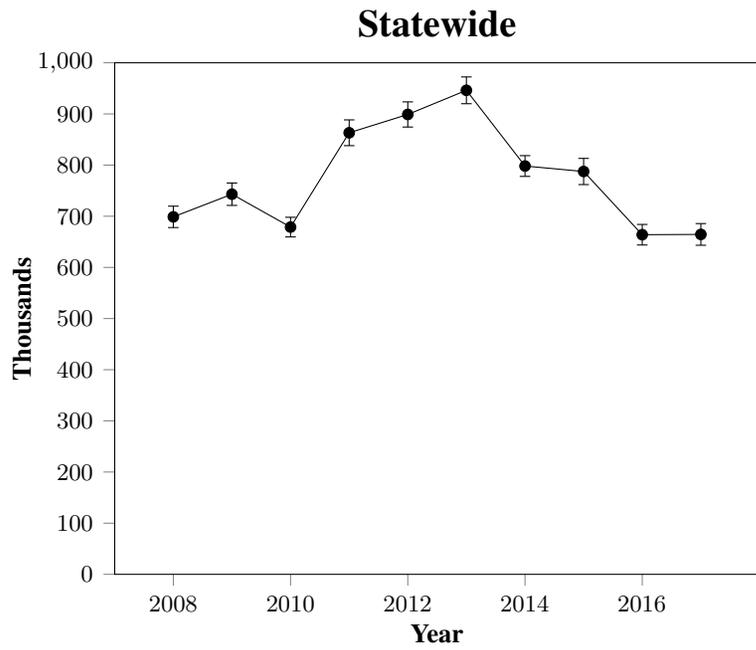


Figure 2.10.—Alaska sport sockeye salmon catch estimates and standard errors, 2008–2017, by region.

Note: Trends in catch estimates can reflect changes in the abundance of fish, changes in angler effort, fishery management actions that reduce or liberalize harvest, or a combination of these and other factors.

Table 2.50.—Alaska sport chum salmon harvest estimates, 2008–2017, by region and area.

Region/Area fished	Harvest estimates									
	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Southeast										
(A) Ketchikan	1,835	7,580	3,462	7,152	3,166	4,505	3,007	2,450	2,694	1,982
(B) Prince of Wales Island	809	1,662	1,109	2,567	1,183	1,010	603	1,045	1,620	1,261
(C) Kake, Petersburg, Wrangell, Stikine	44	734	310	453	86	279	147	249	403	708
(D) Sitka	1,573	2,526	1,138	2,948	983	6,878	2,494	1,166	1,714	1,533
(E) Juneau	2,455	5,967	1,143	4,658	2,339	7,400	2,022	3,658	1,580	1,964
(F1) Skagway	0	80	61	39	0	28	0	34	0	16
(F2) Haines	584	477	192	1,071	503	301	382	302	246	676
(G) Glacier Bay	1,430	2,578	605	1,618	807	2,289	780	2,006	814	1,210
(H) Yakutat	104	11	16	337	17	47	15	20	0	36
Southeast Total	8,834	21,615	8,036	20,843	9,084	22,737	9,450	10,930	9,071	9,386
Southcentral										
(J) North Gulf Coast/Prince William Sound ^a	2,497	1,512	2,593	1,110	1,571	2,501	1,388	1,762	439	1,332
(K) Knik Arm	620	732	528	659	782	302	778	840	855	966
(L) Anchorage	283	386	335	397	137	2,053	541	194	226	509
(M) Susitna River drainage ^a	1,581	1,921	1,622	2,287	2,340	1,677	2,607	2,199	658	2,010
(N) West Cook Inlet drainages ^a	153	101	310	0	26	0	36	0	0	18
(PF) Kenai Peninsula freshwater ^a	377	307	148	111	456	383	64	542	774	164
(PS) Cook Inlet saltwater	216	262	169	508	176	475	1,060	538	458	539
(Q) Kodiak	698	709	570	277	693	639	300	591	731	397
(R) Alaska Peninsula/Aleutian Islands	132	1,541	417	294	170	79	209	34	188	232
(S) Kvichak River drainage	315	50	898	377	313	370	26	361	360	320
(T) Nushagak, Wood River and Togiak	1,117	1,382	1,175	783	1,035	2,560	1,219	561	1,016	1,355
Southcentral Total	7,989	8,903	8,765	6,803	7,699	11,039	8,228	7,622	5,705	7,842
Arctic-Yukon-Kuskokwim										
(I) Upper Copper River drainage ^a	0	0	0	0	0	0	0	0	0	0
(U) Tanana River drainage	61	71	62	77	63	8	54	0	0	23
(V) Kuskokwim River/Kuskokwim Bay drainages	262	351	235	354	406	351	191	185	596	230
(W) Seward Peninsula/Norton Sound	755	412	118	139	209	2,267	511	331	486	473
(X) Northwest Alaska	2,580	229	747	625	482	713	399	956	189	80
(Y) Yukon River drainage	310	103	1,121	217	208	1,415	320	194	264	163
(Z) North Slope/Brooks Range	0	11	0	0	0	0	80	0	140	0
Arctic-Yukon-Kuskokwim Total	3,968	1,177	2,283	1,412	1,368	4,754	1,555	1,666	1,675	969
Alaska Total	20,791	31,695	19,084	29,058	18,151	38,530	19,233	20,218	16,451	18,197

^a Area estimates reflect present-day survey area boundaries. Totals may differ from those found in previously published reports due to area boundary changes that have occurred across study years.

Table 2.51.—Alaska sport chum salmon harvest estimate **standard errors**, 2008–2017, by region and area.

Region/Area fished	Harvest estimate standard errors									
	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Southeast										
(A) Ketchikan	301	789	448	776	474	892	475	406	360	361
(B) Prince of Wales Island	230	272	279	465	256	282	162	244	301	306
(C) Kake, Petersburg, Wrangell, Stikine	28	201	154	212	43	102	59	113	164	272
(D) Sitka	356	368	176	470	205	1,039	550	235	310	325
(E) Juneau	698	857	207	866	479	1,490	335	872	305	367
(F1) Skagway	0	43	50	26	0	29	0	24	0	16
(F2) Haines	230	216	100	358	250	122	201	146	140	211
(G) Glacier Bay	336	482	170	446	369	365	232	477	414	316
(H) Yakutat	70	11	15	247	17	47	16	20	0	36
Southeast Total	935	1,357	668	1,484	899	2,078	866	1,155	773	810
Southcentral										
(J) North Gulf Coast/Prince William Sound ^a	748	340	841	291	522	553	401	391	131	303
(K) Knik Arm	261	232	142	149	350	109	271	262	387	371
(L) Anchorage	78	106	138	153	55	1,568	232	78	100	174
(M) Susitna River drainage ^a	314	412	293	516	549	393	718	516	160	469
(N) West Cook Inlet drainages ^a	129	100	243	0	26	0	25	0	0	18
(PF) Kenai Peninsula freshwater ^a	138	166	69	51	204	196	32	184	537	71
(PS) Cook Inlet saltwater	165	99	69	164	84	165	768	208	208	183
(Q) Kodiak	216	182	154	99	173	161	100	189	214	141
(R) Alaska Peninsula/Aleutian Islands	58	986	208	131	67	38	106	24	116	143
(S) Kvichak River drainage	150	26	400	194	168	212	20	199	240	157
(T) Nushagak, Wood River and Togiak	329	333	244	289	283	654	326	166	313	322
Southcentral Total	997	1,231	1,086	772	919	1,836	1,281	808	859	840
Arctic-Yukon-Kuskokwim										
(I) Upper Copper River drainage ^a	0	0	0	0	0	0	0	0	0	0
(U) Tanana River drainage	48	56	50	56	46	8	56	0	0	22
(V) Kuskokwim River/Kuskokwim Bay drainages	102	146	96	119	176	153	83	113	245	135
(W) Seward Peninsula/Norton Sound	393	179	52	61	125	1,154	225	142	268	277
(X) Northwest Alaska	1,958	170	492	336	293	514	385	445	139	77
(Y) Yukon River drainage	200	71	409	145	100	777	207	118	162	136
(Z) North Slope/Brooks Range	0	11	0	0	0	0	80	0	148	0
Arctic-Yukon-Kuskokwim Total	1,999	311	653	391	383	1,543	515	498	432	345
Alaska Total	2,394	1,922	1,432	1,735	1,320	3,314	1,606	1,485	1,257	1,209

^a Area estimates reflect present-day survey area boundaries. Totals may differ from those found in previously published reports due to area boundary changes that have occurred across study years.

Table 2.52.—Alaska sport chum salmon catch estimates, 2008–2017, by region and area.

Region/Area fished	Catch estimates									
	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Southeast										
(A) Ketchikan	4,419	15,335	5,818	12,683	7,124	7,668	4,784	5,798	6,244	4,174
(B) Prince of Wales Island	7,573	7,616	10,529	10,328	5,273	4,042	6,893	4,875	6,930	3,108
(C) Kake, Petersburg, Wrangell, Stikine	335	2,872	1,105	1,584	454	2,625	237	849	1,043	1,610
(D) Sitka	7,136	6,897	4,175	7,713	6,006	17,408	5,835	3,981	7,502	7,366
(E) Juneau	10,307	18,776	6,929	12,517	10,458	17,924	8,591	15,072	11,731	10,539
(F1) Skagway	26	348	61	137	129	111	173	34	0	163
(F2) Haines	2,644	2,363	1,023	4,631	2,389	1,360	1,546	1,216	2,233	2,522
(G) Glacier Bay	1,969	4,354	2,100	4,101	1,719	6,477	1,523	3,634	1,665	2,988
(H) Yakutat	1,845	316	1,958	2,335	390	327	193	458	252	90
Southeast Total	36,254	58,877	33,698	56,029	33,942	57,942	29,775	35,917	37,600	32,560
Southcentral										
(J) North Gulf Coast/Prince William Sound ^a	14,978	7,580	5,976	14,943	5,265	9,393	5,799	6,359	1,448	5,165
(K) Knik Arm	4,833	3,367	4,166	3,835	4,147	2,921	3,417	5,080	6,178	4,444
(L) Anchorage	6,033	5,945	3,852	4,350	1,749	3,511	3,737	1,742	1,759	3,391
(M) Susitna River drainage ^a	27,498	27,799	30,705	35,854	45,041	23,898	28,598	53,573	14,142	26,130
(N) West Cook Inlet drainages ^a	1,991	840	1,398	1,696	1,572	1,719	2,402	2,052	379	81
(PF) Kenai Peninsula freshwater ^a	4,141	2,746	2,595	1,592	5,522	1,162	1,042	2,605	2,560	1,695
(PS) Cook Inlet saltwater	654	777	673	1,592	533	1,297	1,566	1,663	1,062	1,159
(Q) Kodiak	6,504	7,213	5,761	3,560	4,377	5,795	5,536	12,854	4,107	5,181
(R) Alaska Peninsula/Aleutian Islands	5,790	10,112	8,454	10,229	6,602	3,421	9,122	6,857	4,971	8,176
(S) Kvichak River drainage	13,750	15,269	17,623	16,474	12,304	13,939	6,316	10,497	15,867	11,950
(T) Nushagak, Wood River and Togiak	8,999	14,185	8,687	11,199	10,530	19,784	11,235	6,037	7,929	9,216
Southcentral Total	95,171	95,833	89,890	105,324	97,642	86,840	78,770	109,319	60,402	76,588
Arctic-Yukon-Kuskokwim										
(I) Upper Copper River drainage ^a	0	0	0	0	0	0	0	0	0	0
(U) Tanana River drainage	636	526	158	620	411	580	171	189	117	627
(V) Kuskokwim River/Kuskokwim Bay drainages	19,292	14,398	16,327	17,247	21,828	17,001	13,477	17,796	10,719	11,511
(W) Seward Peninsula/Norton Sound	5,961	2,113	2,857	4,303	2,901	4,600	4,193	2,335	2,310	2,043
(X) Northwest Alaska	4,552	3,232	870	1,795	1,541	2,371	1,071	2,186	954	477
(Y) Yukon River drainage	2,689	1,257	4,677	1,938	1,576	10,725	1,234	531	884	604
(Z) North Slope/Brooks Range	0	34	16	0	0	0	80	0	140	0
Arctic-Yukon-Kuskokwim Total	33,130	21,560	24,905	25,903	28,257	35,277	20,226	23,037	15,124	15,262
Alaska Total	164,555	176,270	148,493	187,256	159,841	180,059	128,771	168,273	113,126	124,410

^a Area estimates reflect present-day survey area boundaries. Totals may differ from those found in previously published reports due to area boundary changes that have occurred across study years.

Table 2.53.—Alaska sport chum salmon catch estimate **standard errors**, 2008–2017, by region and area.

Region/Area fished	Catch estimate standard errors									
	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Southeast										
(A) Ketchikan	700	1,687	647	1,255	1,385	1,316	664	878	1,837	655
(B) Prince of Wales Island	1,575	1,061	3,445	2,289	963	909	2,269	1,115	1,194	595
(C) Kake, Petersburg, Wrangell, Stikine	183	1,139	331	507	259	1,146	97	301	343	487
(D) Sitka	1,568	830	519	1,053	1,240	1,980	1,026	847	1,226	1,270
(E) Juneau	1,616	1,999	1,210	1,710	1,799	2,235	1,525	2,410	2,760	1,476
(F1) Skagway	18	163	50	68	128	115	150	24	0	112
(F2) Haines	759	580	408	1,261	885	350	580	374	879	671
(G) Glacier Bay	384	786	512	827	509	1,291	392	829	537	795
(H) Yakutat	793	154	844	1,112	253	177	126	183	223	62
Southeast Total	3,046	3,299	4,062	3,861	2,865	3,751	3,108	3,056	3,944	2,398
Southcentral										
(J) North Gulf Coast/Prince William Sound ^a	3,870	2,043	1,315	7,551	1,049	2,142	1,354	1,045	331	1,262
(K) Knik Arm	1,044	684	748	911	1,047	1,504	857	1,215	3,000	1,222
(L) Anchorage	1,214	1,035	1,024	947	417	1,627	995	380	750	689
(M) Susitna River drainage ^a	2,670	3,029	4,250	3,517	4,090	2,429	3,068	9,484	2,201	3,077
(N) West Cook Inlet drainages ^a	1,341	504	664	720	483	1,271	916	1,017	268	54
(PF) Kenai Peninsula freshwater ^a	832	854	721	633	1,595	546	295	762	722	489
(PS) Cook Inlet saltwater	362	338	279	554	221	430	802	510	471	295
(Q) Kodiak	1,018	1,333	1,220	804	861	1,221	1,723	6,009	1,135	1,514
(R) Alaska Peninsula/Aleutian Islands	1,627	2,968	2,013	2,407	1,531	964	2,638	1,667	1,550	2,152
(S) Kvichak River drainage	4,497	3,963	4,509	5,117	4,563	4,684	1,394	3,692	5,537	3,443
(T) Nushagak, Wood River and Togiak	1,720	3,119	1,880	2,132	1,752	4,033	1,893	1,272	1,323	1,559
Southcentral Total	7,457	7,023	7,007	10,804	6,771	7,593	5,556	12,591	7,242	5,876
Arctic-Yukon-Kuskokwim										
(I) Upper Copper River drainage ^a	0	0	0	0	0	0	0	0	0	0
(U) Tanana River drainage	344	216	92	447	188	339	120	130	72	418
(V) Kuskokwim River/Kuskokwim Bay drainages	3,114	3,051	2,843	3,108	4,697	3,476	2,502	4,607	1,992	2,170
(W) Seward Peninsula/Norton Sound	2,019	644	1,177	1,858	1,040	1,380	2,754	920	980	695
(X) Northwest Alaska	2,062	1,502	502	893	847	1,294	963	898	415	351
(Y) Yukon River drainage	1,373	655	1,625	1,022	756	5,721	489	296	463	422
(Z) North Slope/Brooks Range	0	33	16	0	0	0	80	0	148	0
Arctic-Yukon-Kuskokwim Total	4,557	3,530	3,476	3,903	4,979	6,902	3,838	4,774	2,358	2,430
Alaska Total	9,401	8,769	8,778	11,815	8,844	10,781	7,473	13,641	8,869	6,886

^a Area estimates reflect present-day survey area boundaries. Totals may differ from those found in previously published reports due to area boundary changes that have occurred across study years.

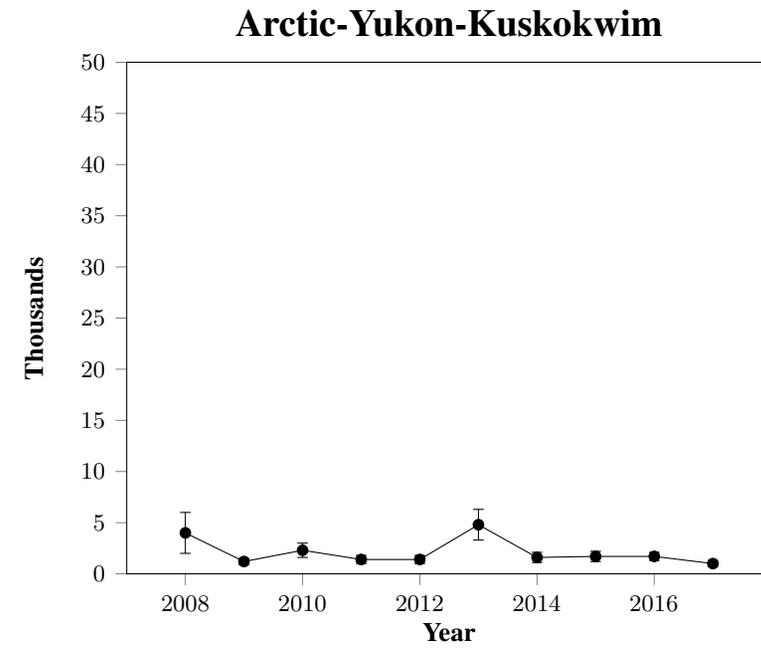
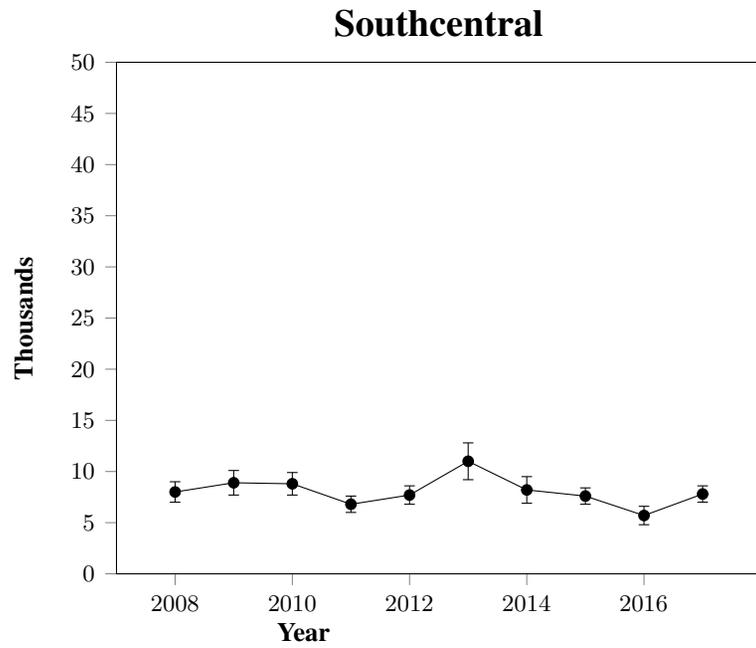
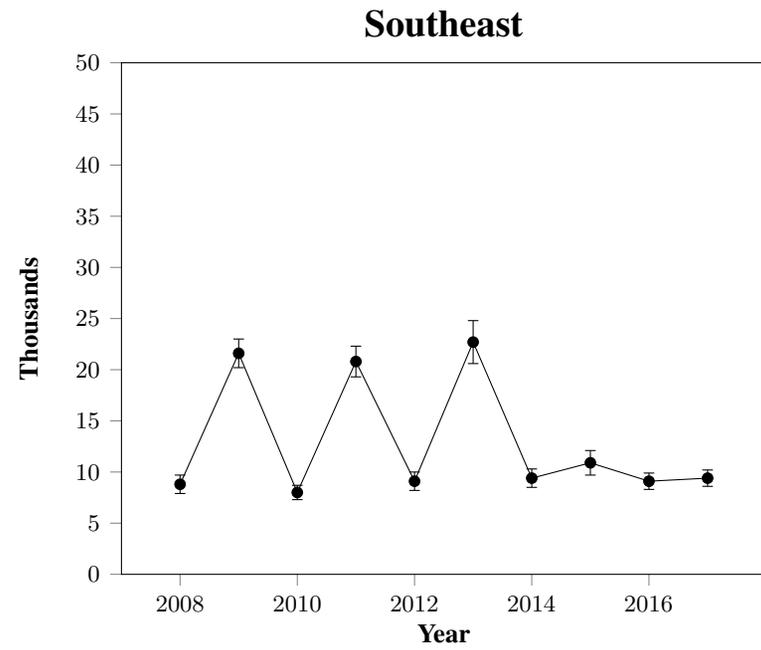
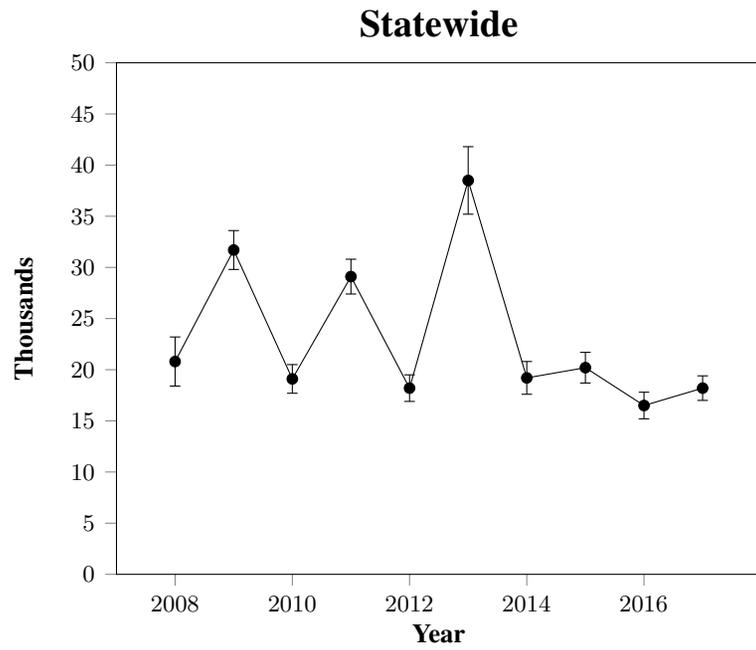


Figure 2.11.—Alaska sport chum salmon harvest estimates and standard errors, 2008–2017, by region.

Note: Trends in harvest estimates can reflect changes in the abundance of fish, changes in angler effort, fishery management actions that reduce or liberalize harvest, or a combination of these and other factors.

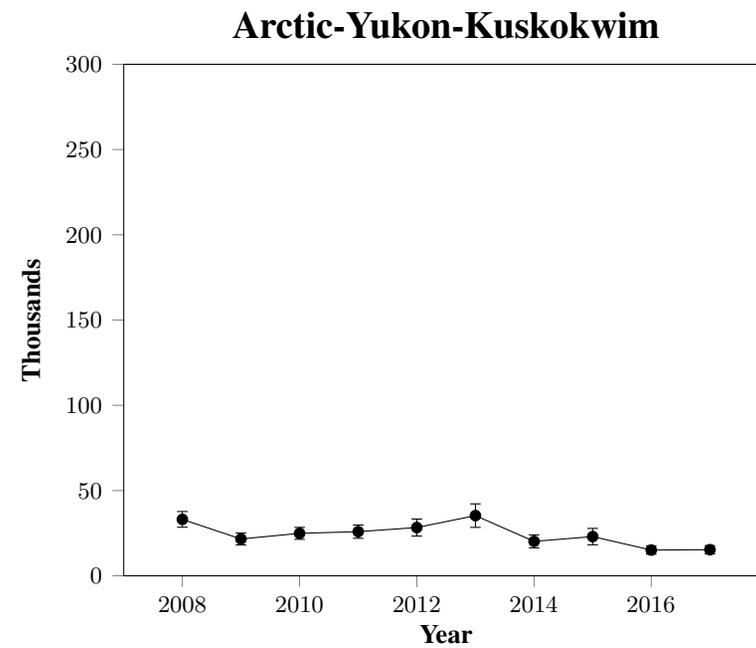
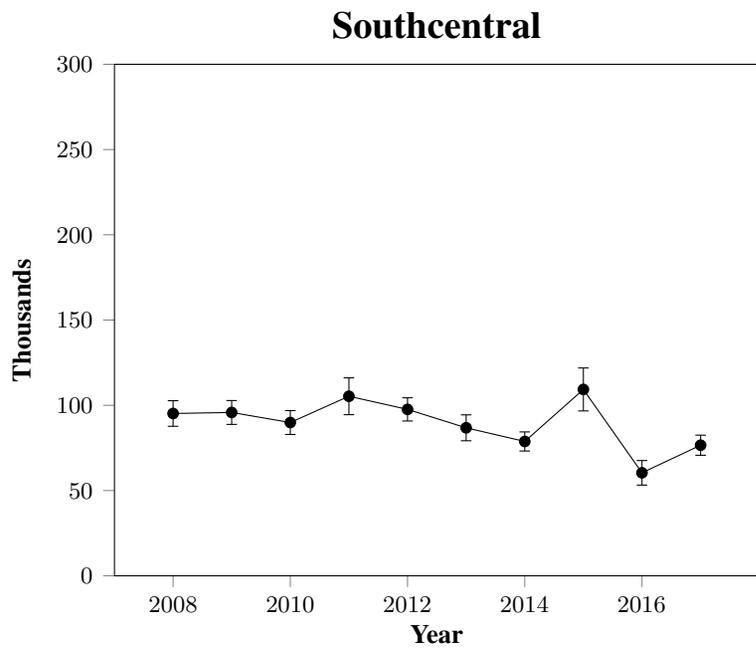
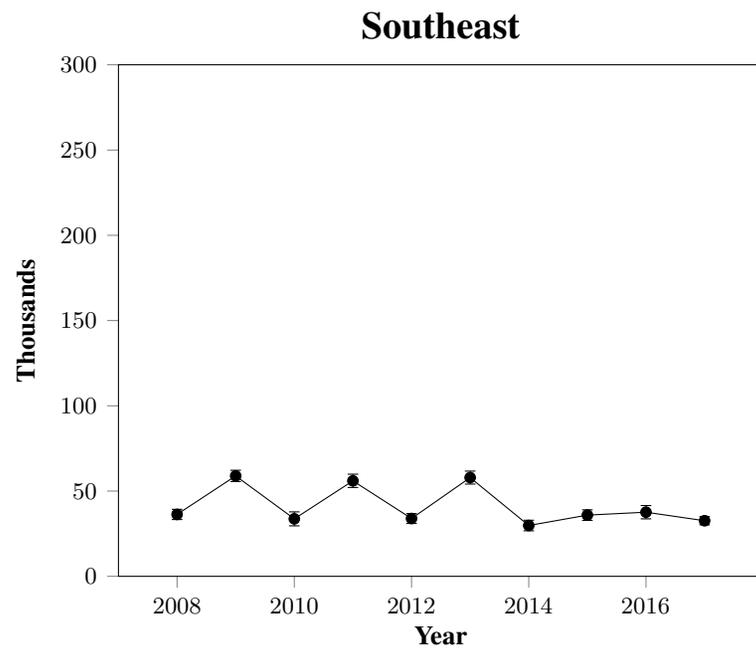
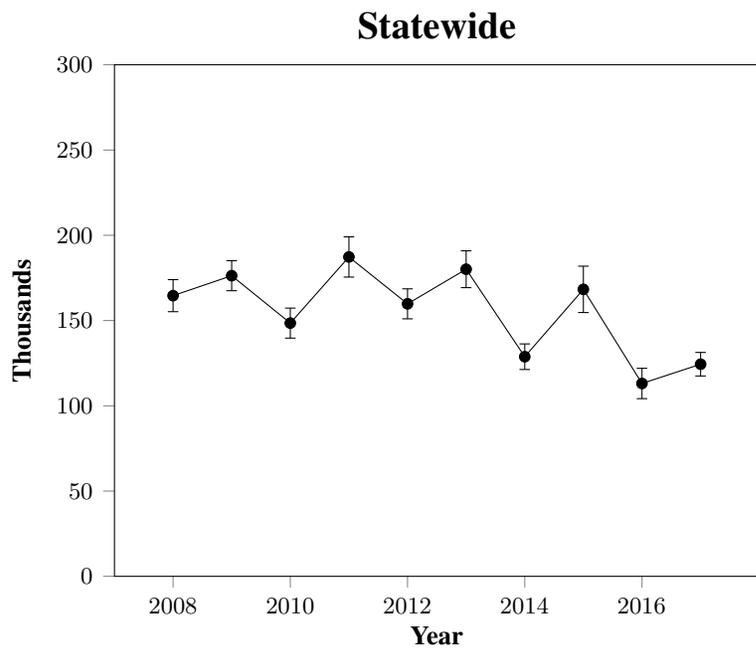


Figure 2.12.—Alaska sport chum salmon catch estimates and standard errors, 2008–2017, by region.

Note: Trends in catch estimates can reflect changes in the abundance of fish, changes in angler effort, fishery management actions that reduce or liberalize harvest, or a combination of these and other factors.

Table 2.54.—Alaska sport landlocked coho and Chinook salmon harvest estimates, 2008–2017, by region and area.

Region/Area fished	Harvest estimates									
	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Southeast										
(A) Ketchikan	0	0	0	0	0	0	0	0	0	8
(B) Prince of Wales Island	0	0	0	0	0	0	0	0	0	0
(C) Kake, Petersburg, Wrangell, Stikine	0	0	0	0	0	0	0	0	0	0
(D) Sitka	0	0	0	0	0	0	0	0	0	0
(E) Juneau	404	1,962	2,696	150	410	0	710	61	299	176
(F1) Skagway	0	0	0	0	0	0	0	0	0	0
(F2) Haines	0	0	0	0	0	0	0	0	0	0
(G) Glacier Bay	0	0	0	0	0	0	0	0	0	0
(H) Yakutat	0	0	0	0	0	0	0	0	0	0
Southeast Total	404	1,962	2,696	150	410	0	710	61	299	184
Southcentral										
(J) North Gulf Coast/Prince William Sound ^a	0	0	0	0	0	0	0	0	0	0
(K) Knik Arm	2,198	793	2,008	740	2,730	1,822	4,005	679	932	2,014
(L) Anchorage	1,479	1,948	341	209	216	897	2,903	1,617	709	2,188
(M) Susitna River drainage ^a	0	528	76	102	105	28	121	0	24	419
(N) West Cook Inlet drainages ^a	0	0	0	0	0	0	0	0	0	0
(PF) Kenai Peninsula freshwater ^a	1,000	338	795	359	1,014	591	1,562	626	276	496
(PS) Cook Inlet saltwater	0	0	0	0	0	0	0	0	0	0
(Q) Kodiak	0	0	0	41	0	14	20	0	59	130
(R) Alaska Peninsula/Aleutian Islands	0	0	0	0	0	0	0	0	0	0
(S) Kvichak River drainage	0	0	0	0	0	0	0	0	0	0
(T) Nushagak, Wood River and Togiak	0	0	0	0	0	0	0	0	0	0
Southcentral Total	4,677	3,607	3,220	1,451	4,065	3,352	8,611	2,922	2,000	5,247
Arctic-Yukon-Kuskokwim										
(I) Upper Copper River drainage ^a	0	44	101	10	11	0	0	0	83	49
(U) Tanana River drainage	5,352	2,540	2,832	1,227	800	1,179	4,126	1,753	7,980	3,655
(V) Kuskokwim River/Kuskokwim Bay drainages	0	0	0	0	0	0	0	0	0	0
(W) Seward Peninsula/Norton Sound	0	0	0	0	0	0	0	0	0	0
(X) Northwest Alaska	0	0	0	0	0	0	0	0	0	0
(Y) Yukon River drainage	0	0	0	0	0	0	0	0	0	0
(Z) North Slope/Brooks Range	0	0	0	0	0	0	0	0	0	0
Arctic-Yukon-Kuskokwim Total	5,352	2,584	2,933	1,237	811	1,179	4,126	1,753	8,063	3,704
Alaska Total	10,433	8,153	8,849	2,838	5,286	4,531	13,447	4,736	10,362	9,135

^a Area estimates reflect present-day survey area boundaries. Totals may differ from those found in previously published reports due to area boundary changes that have occurred across study years.

Table 2.55.—Alaska sport landlocked coho and Chinook salmon harvest estimate **standard errors**, 2008–2017, by region and area.

Region/Area fished	Harvest estimate standard errors									
	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Southeast										
(A) Ketchikan	0	0	0	0	0	0	0	0	0	8
(B) Prince of Wales Island	0	0	0	0	0	0	0	0	0	0
(C) Kake, Petersburg, Wrangell, Stikine	0	0	0	0	0	0	0	0	0	0
(D) Sitka	0	0	0	0	0	0	0	0	0	0
(E) Juneau	339	766	1,670	94	268	0	566	45	174	139
(F1) Skagway	0	0	0	0	0	0	0	0	0	0
(F2) Haines	0	0	0	0	0	0	0	0	0	0
(G) Glacier Bay	0	0	0	0	0	0	0	0	0	0
(H) Yakutat	0	0	0	0	0	0	0	0	0	0
Southeast Total	339	766	1,670	94	268	0	566	45	174	139
Southcentral										
(J) North Gulf Coast/Prince William Sound ^a	0	0	0	0	0	0	0	0	0	0
(K) Knik Arm	636	279	869	331	981	613	1,579	341	500	893
(L) Anchorage	481	710	201	96	126	324	1,362	615	270	1,134
(M) Susitna River drainage ^a	0	536	59	104	104	27	124	0	23	318
(N) West Cook Inlet drainages ^a	0	0	0	0	0	0	0	0	0	0
(PF) Kenai Peninsula freshwater ^a	405	171	480	187	379	316	866	236	129	236
(PS) Cook Inlet saltwater	0	0	0	0	0	0	0	0	0	0
(Q) Kodiak	0	0	0	41	0	13	20	0	58	127
(R) Alaska Peninsula/Aleutian Islands	0	0	0	0	0	0	0	0	0	0
(S) Kvichak River drainage	0	0	0	0	0	0	0	0	0	0
(T) Nushagak, Wood River and Togiak	0	0	0	0	0	0	0	0	0	0
Southcentral Total	873	932	1,014	392	1,043	755	2,249	753	596	1,493
Arctic-Yukon-Kuskokwim										
(I) Upper Copper River drainage ^a	0	42	78	10	11	0	0	0	59	37
(U) Tanana River drainage	1,877	681	811	277	314	413	1,442	561	4,811	911
(V) Kuskokwim River/Kuskokwim Bay drainages	0	0	0	0	0	0	0	0	0	0
(W) Seward Peninsula/Norton Sound	0	0	0	0	0	0	0	0	0	0
(X) Northwest Alaska	0	0	0	0	0	0	0	0	0	0
(Y) Yukon River drainage	0	0	0	0	0	0	0	0	0	0
(Z) North Slope/Brooks Range	0	0	0	0	0	0	0	0	0	0
Arctic-Yukon-Kuskokwim Total	1,877	682	814	277	313	413	1,442	561	4,809	910
Alaska Total	2,103	1,363	2,087	488	1,117	863	2,706	935	4,837	1,772

^a Area estimates reflect present-day survey area boundaries. Totals may differ from those found in previously published reports due to area boundary changes that have occurred across study years.

Table 2.56.—Alaska sport landlocked coho and Chinook salmon catch estimates, 2008–2017, by region and area.

Region/Area fished	Catch estimates									
	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Southeast										
(A) Ketchikan	0	0	0	101	0	0	0	0	0	90
(B) Prince of Wales Island	0	0	0	0	0	0	0	0	0	0
(C) Kake, Petersburg, Wrangell, Stikine	0	0	0	0	0	0	0	0	0	0
(D) Sitka	0	0	0	0	0	0	0	0	0	0
(E) Juneau	2,099	4,885	4,932	480	510	0	1,967	61	484	674
(F1) Skagway	0	0	0	0	0	0	0	0	0	0
(F2) Haines	0	0	0	0	0	0	0	0	0	0
(G) Glacier Bay	0	0	0	0	0	0	0	0	0	0
(H) Yakutat	0	0	0	0	0	0	0	0	0	0
Southeast Total	2,099	4,885	4,932	581	510	0	1,967	61	484	764
Southcentral										
(J) North Gulf Coast/Prince William Sound ^a	0	0	0	0	0	0	0	0	0	0
(K) Knik Arm	6,892	8,176	5,659	1,393	4,425	7,610	10,769	3,016	2,537	5,463
(L) Anchorage	5,721	4,972	1,864	1,782	381	3,282	8,339	2,807	1,653	10,538
(M) Susitna River drainage ^a	0	3,168	784	469	105	172	202	0	78	650
(N) West Cook Inlet drainages ^a	0	0	0	0	0	0	0	0	0	0
(PF) Kenai Peninsula freshwater ^a	2,335	1,643	979	1,988	2,426	837	2,191	1,254	686	661
(PS) Cook Inlet saltwater	0	0	0	0	0	0	0	0	0	0
(Q) Kodiak	0	0	0	204	0	1,042	384	0	59	130
(R) Alaska Peninsula/Aleutian Islands	0	0	0	0	0	0	0	0	0	0
(S) Kvichak River drainage	0	0	0	0	0	0	0	0	0	0
(T) Nushagak, Wood River and Togiak	0	0	0	0	0	0	0	0	0	0
Southcentral Total	14,948	17,959	9,286	5,836	7,337	12,943	21,885	7,077	5,013	17,442
Arctic-Yukon-Kuskokwim										
(I) Upper Copper River drainage ^a	0	554	288	10	66	0	0	0	83	115
(U) Tanana River drainage	9,593	8,795	7,276	2,980	5,189	3,947	14,589	3,323	19,280	8,642
(V) Kuskokwim River/Kuskokwim Bay drainages	0	0	0	0	0	0	0	0	0	0
(W) Seward Peninsula/Norton Sound	0	0	0	0	0	0	0	0	0	0
(X) Northwest Alaska	0	0	0	0	0	0	0	0	0	0
(Y) Yukon River drainage	0	0	0	0	0	0	0	0	0	0
(Z) North Slope/Brooks Range	0	0	0	0	0	0	0	0	0	0
Arctic-Yukon-Kuskokwim Total	9,593	9,349	7,564	2,990	5,255	3,947	14,589	3,323	19,363	8,757
Alaska Total	26,640	32,193	21,782	9,407	13,102	16,890	38,441	10,461	24,860	26,963

^a Area estimates reflect present-day survey area boundaries. Totals may differ from those found in previously published reports due to area boundary changes that have occurred across study years.

Table 2.57.—Alaska sport landlocked coho and Chinook salmon catch estimate **standard errors**, 2008–2017, by region and area.

Region/Area fished	Catch estimate standard errors									
	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Southeast										
(A) Ketchikan	0	0	0	102	0	0	0	0	0	92
(B) Prince of Wales Island	0	0	0	0	0	0	0	0	0	0
(C) Kake, Petersburg, Wrangell, Stikine	0	0	0	0	0	0	0	0	0	0
(D) Sitka	0	0	0	0	0	0	0	0	0	0
(E) Juneau	904	2,333	2,288	293	309	0	1,124	45	224	441
(F1) Skagway	0	0	0	0	0	0	0	0	0	0
(F2) Haines	0	0	0	0	0	0	0	0	0	0
(G) Glacier Bay	0	0	0	0	0	0	0	0	0	0
(H) Yakutat	0	0	0	0	0	0	0	0	0	0
Southeast Total	904	2,333	2,288	313	309	0	1,124	45	224	447
Southcentral										
(J) North Gulf Coast/Prince William Sound ^a	0	0	0	0	0	0	0	0	0	0
(K) Knik Arm	1,894	2,360	1,743	504	1,257	2,390	3,566	1,132	792	2,496
(L) Anchorage	1,376	1,388	908	777	178	963	3,072	948	581	3,350
(M) Susitna River drainage ^a	0	3,217	699	326	104	170	206	0	70	451
(N) West Cook Inlet drainages ^a	0	0	0	0	0	0	0	0	0	0
(PF) Kenai Peninsula freshwater ^a	1,110	945	508	1,331	827	400	955	457	260	292
(PS) Cook Inlet saltwater	0	0	0	0	0	0	0	0	0	0
(Q) Kodiak	0	0	0	205	0	644	270	0	58	127
(R) Alaska Peninsula/Aleutian Islands	0	0	0	0	0	0	0	0	0	0
(S) Kvichak River drainage	0	0	0	0	0	0	0	0	0	0
(T) Nushagak, Wood River and Togiak	0	0	0	0	0	0	0	0	0	0
Southcentral Total	2,526	4,268	2,164	1,668	1,468	2,676	4,724	1,573	1,043	4,134
Arctic-Yukon-Kuskokwim										
(I) Upper Copper River drainage ^a	0	378	260	10	66	0	0	0	59	102
(U) Tanana River drainage	2,208	2,559	1,852	614	1,725	1,234	6,626	820	12,568	1,993
(V) Kuskokwim River/Kuskokwim Bay drainages	0	0	0	0	0	0	0	0	0	0
(W) Seward Peninsula/Norton Sound	0	0	0	0	0	0	0	0	0	0
(X) Northwest Alaska	0	0	0	0	0	0	0	0	0	0
(Y) Yukon River drainage	0	0	0	0	0	0	0	0	0	0
(Z) North Slope/Brooks Range	0	0	0	0	0	0	0	0	0	0
Arctic-Yukon-Kuskokwim Total	2,208	2,581	1,874	614	1,726	1,234	6,626	820	12,566	1,993
Alaska Total	3,610	5,362	3,633	1,791	2,290	2,970	8,238	1,766	12,609	4,692

^a Area estimates reflect present-day survey area boundaries. Totals may differ from those found in previously published reports due to area boundary changes that have occurred across study years.

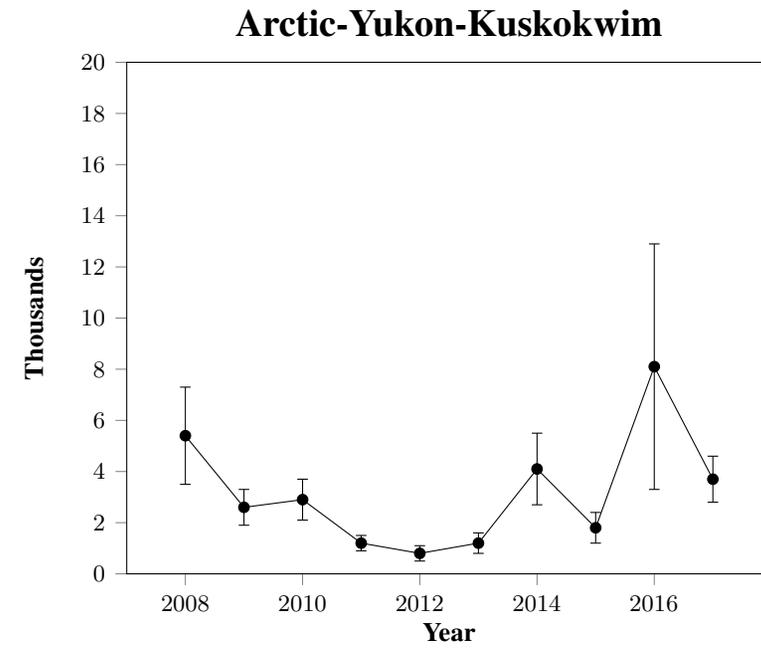
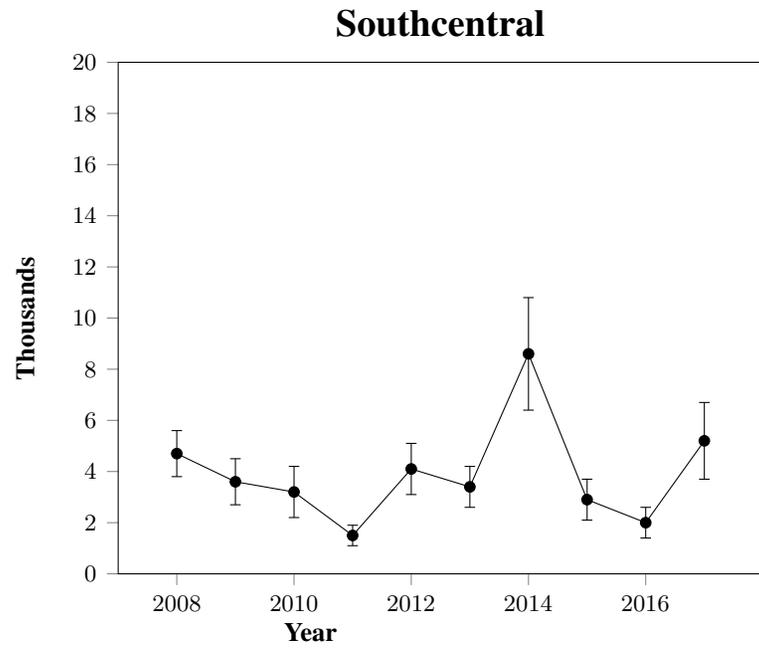
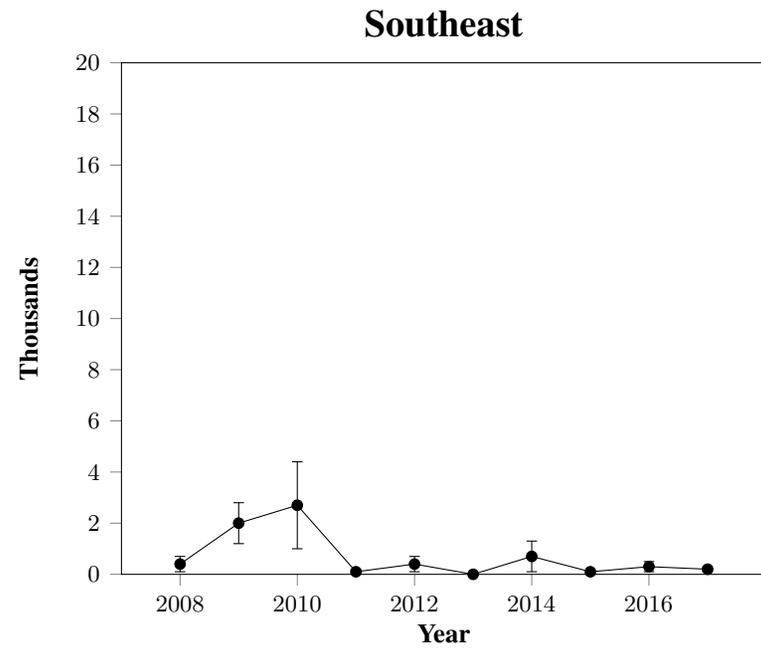
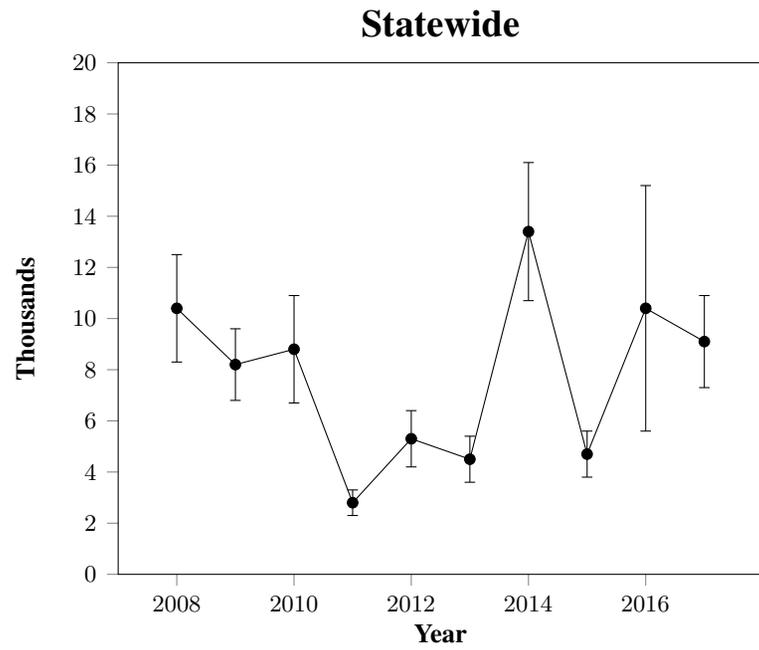


Figure 2.13.—Alaska sport landlocked coho and Chinook salmon harvest estimates and standard errors, 2008–2017, by region.

Note: Trends in harvest estimates can reflect changes in the abundance of fish, changes in angler effort, fishery management actions that reduce or liberalize harvest, or a combination of these and other factors.

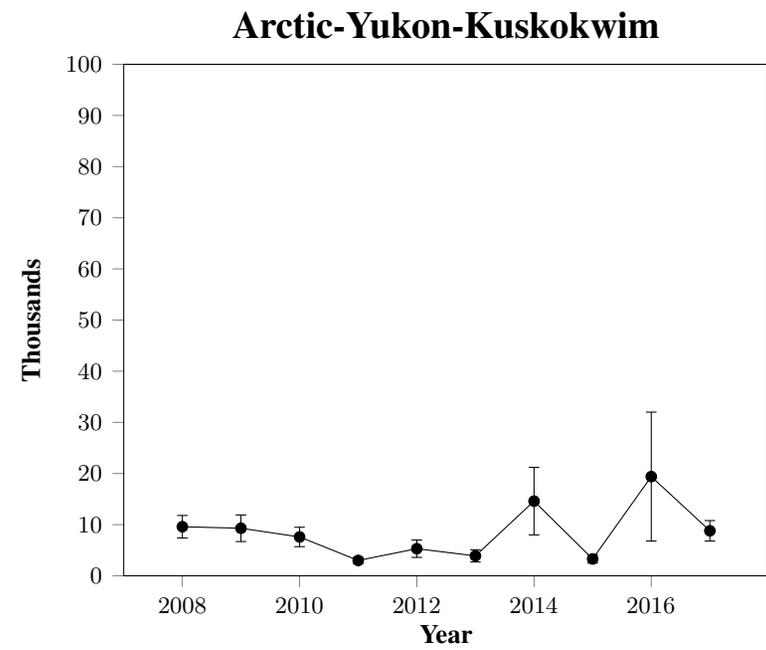
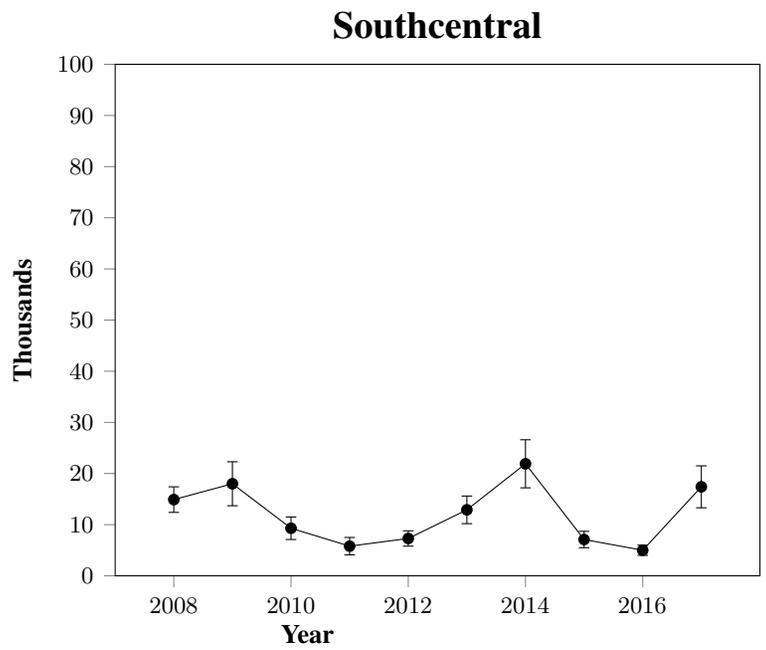
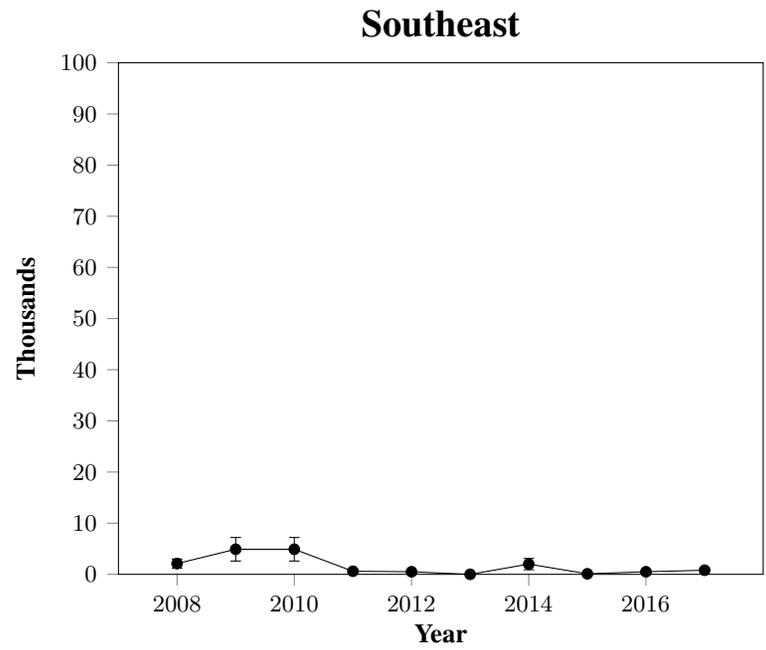
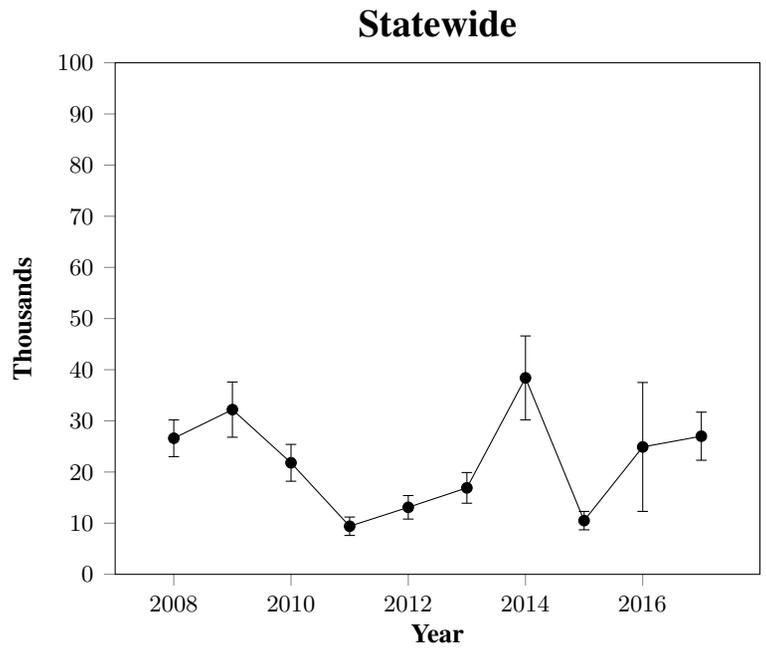


Figure 2.14.—Alaska sport landlocked coho and Chinook salmon catch estimates and standard errors, 2008–2017, by region.

Note: Trends in catch estimates can reflect changes in the abundance of fish, changes in angler effort, fishery management actions that reduce or liberalize harvest, or a combination of these and other factors.

Table 2.58.—Alaska sport steelhead trout harvest estimates, 2008–2017, by region and area.

Region/Area fished	Harvest estimates									
	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Southeast										
(A) Ketchikan	0	11	0	0	0	8	0	0	0	0
(B) Prince of Wales Island	34	0	18	0	12	0	77	0	14	0
(C) Kake, Petersburg, Wrangell, Stikine	0	32	7	0	17	0	15	0	0	0
(D) Sitka	0	0	9	15	0	21	0	0	0	0
(E) Juneau	16	26	0	9	52	17	15	8	0	89
(F1) Skagway	0	0	0	0	0	0	0	0	7	0
(F2) Haines	13	0	12	0	0	0	0	0	0	0
(G) Glacier Bay	0	39	0	0	0	0	0	0	0	0
(H) Yakutat	53	26	0	0	121	0	0	0	0	35
Southeast Total	116	134	46	24	202	46	107	8	21	124
Southcentral										
(J) North Gulf Coast/Prince William Sound ^a	19	69	14	38	0	47	0	47	29	79
(K) Knik Arm	0	0	0	0	0	0	0	0	0	0
(L) Anchorage	0	0	0	38	0	0	0	0	0	0
(M) Susitna River drainage ^a	0	0	0	0	0	0	0	0	0	0
(N) West Cook Inlet drainages ^a	0	0	0	0	0	0	0	0	0	0
(PF) Kenai Peninsula freshwater ^a	0	38	7	0	111	47	0	0	0	0
(PS) Cook Inlet saltwater	82	0	0	27	0	0	0	0	0	0
(Q) Kodiak	52	141	24	6	69	30	27	52	15	31
(R) Alaska Peninsula/Aleutian Islands	0	0	0	0	0	0	0	0	0	0
(S) Kvichak River drainage	0	0	0	0	0	0	0	14	0	0
(T) Nushagak, Wood River and Togiak	0	0	0	0	0	0	0	0	0	0
Southcentral Total	153	248	45	109	180	124	27	113	44	110
Arctic-Yukon-Kuskokwim										
(I) Upper Copper River drainage ^a	0	0	0	0	0	11	0	0	0	0
(U) Tanana River drainage	0	0	0	0	0	0	0	0	0	0
(V) Kuskokwim River/Kuskokwim Bay drainages	0	0	0	0	0	0	0	0	0	0
(W) Seward Peninsula/Norton Sound	0	0	0	0	0	0	0	0	0	0
(X) Northwest Alaska	0	0	0	0	0	0	0	0	0	0
(Y) Yukon River drainage	0	0	0	0	0	0	0	0	0	0
(Z) North Slope/Brooks Range	0	0	0	0	0	0	0	0	0	0
Arctic-Yukon-Kuskokwim Total	0	0	0	0	0	11	0	0	0	0
Alaska Total	269	382	91	133	382	181	134	121	65	234

^a Area estimates reflect present-day survey area boundaries. Totals may differ from those found in previously published reports due to area boundary changes that have occurred across study years.

Table 2.59.—Alaska sport steelhead trout harvest estimate **standard errors**, 2008–2017, by region and area.

Region/Area fished	Harvest estimate standard errors									
	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Southeast										
(A) Ketchikan	0	11	0	0	0	8	0	0	0	0
(B) Prince of Wales Island	24	0	12	0	8	0	62	0	14	0
(C) Kake, Petersburg, Wrangell, Stikine	0	19	7	0	17	0	15	0	0	0
(D) Sitka	0	0	9	11	0	15	0	0	0	0
(E) Juneau	16	16	0	9	34	12	15	9	0	56
(F1) Skagway	0	0	0	0	0	0	0	0	7	0
(F2) Haines	13	0	12	0	0	0	0	0	0	0
(G) Glacier Bay	0	28	0	0	0	0	0	0	0	0
(H) Yakutat	41	18	0	0	50	0	0	0	0	35
Southeast Total	53	44	21	14	62	21	64	9	16	68
Southcentral										
(J) North Gulf Coast/Prince William Sound ^a	15	32	14	38	0	34	0	38	20	62
(K) Knik Arm	0	0	0	0	0	0	0	0	0	0
(L) Anchorage	0	0	0	37	0	0	0	0	0	0
(M) Susitna River drainage ^a	0	0	0	0	0	0	0	0	0	0
(N) West Cook Inlet drainages ^a	0	0	0	0	0	0	0	0	0	0
(PF) Kenai Peninsula freshwater ^a	0	21	7	0	96	41	0	0	0	0
(PS) Cook Inlet saltwater	75	0	0	17	0	0	0	0	0	0
(Q) Kodiak	27	103	12	7	35	18	16	33	15	24
(R) Alaska Peninsula/Aleutian Islands	0	0	0	0	0	0	0	0	0	0
(S) Kvichak River drainage	0	0	0	0	0	0	0	10	0	0
(T) Nushagak, Wood River and Togiak	0	0	0	0	0	0	0	0	0	0
Southcentral Total	82	108	20	55	102	56	16	52	25	67
Arctic-Yukon-Kuskokwim										
(I) Upper Copper River drainage ^a	0	0	0	0	0	11	0	0	0	0
(U) Tanana River drainage	0	0	0	0	0	0	0	0	0	0
(V) Kuskokwim River/Kuskokwim Bay drainages	0	0	0	0	0	0	0	0	0	0
(W) Seward Peninsula/Norton Sound	0	0	0	0	0	0	0	0	0	0
(X) Northwest Alaska	0	0	0	0	0	0	0	0	0	0
(Y) Yukon River drainage	0	0	0	0	0	0	0	0	0	0
(Z) North Slope/Brooks Range	0	0	0	0	0	0	0	0	0	0
Arctic-Yukon-Kuskokwim Total	0	0	0	0	0	11	0	0	0	0
Alaska Total	96	117	30	57	119	61	67	53	30	94

^a Area estimates reflect present-day survey area boundaries. Totals may differ from those found in previously published reports due to area boundary changes that have occurred across study years.

Table 2.60.—Alaska sport steelhead trout catch estimates, 2008–2017, by region and area.

Region/Area fished	Catch estimates									
	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Southeast										
(A) Ketchikan	2,701	1,588	285	94	455	76	60	85	34	432
(B) Prince of Wales Island	4,224	857	294	934	3,315	1,454	1,571	3,614	471	306
(C) Kake, Petersburg, Wrangell, Stikine	1,383	614	902	325	195	343	369	426	116	301
(D) Sitka	870	464	527	411	271	251	178	350	519	708
(E) Juneau	554	200	281	324	115	104	155	147	28	450
(F1) Skagway	0	6	0	0	0	0	15	0	7	0
(F2) Haines	29	0	26	0	20	10	55	0	0	0
(G) Glacier Bay	143	435	125	119	0	0	0	7	34	0
(H) Yakutat	16,417	6,007	5,679	6,081	10,959	3,925	2,927	7,047	6,571	8,690
Southeast Total	26,321	10,171	8,119	8,288	15,330	6,163	5,330	11,676	7,780	10,887
Southcentral										
(J) North Gulf Coast/Prince William Sound ^a	35	82	42	38	14	57	1,003	64	45	79
(K) Knik Arm	0	0	0	0	0	0	0	0	0	0
(L) Anchorage	0	0	0	38	0	0	0	0	0	0
(M) Susitna River drainage ^a	0	0	0	0	0	0	0	0	0	0
(N) West Cook Inlet drainages ^a	0	0	0	0	0	0	0	0	0	0
(PF) Kenai Peninsula freshwater ^a	12,940	5,751	3,327	870	2,918	2,866	3,956	5,106	2,780	4,150
(PS) Cook Inlet saltwater	426	22	0	108	371	286	34	215	190	399
(Q) Kodiak	3,102	1,559	780	2,216	569	717	1,562	2,881	3,295	1,313
(R) Alaska Peninsula/Aleutian Islands	105	0	147	0	0	8	701	237	374	1,290
(S) Kvichak River drainage	0	0	0	0	0	0	27	36	0	102
(T) Nushagak, Wood River and Togiak	0	0	0	0	0	0	0	44	0	325
Southcentral Total	16,608	7,414	4,296	3,270	3,872	3,934	7,283	8,583	6,684	7,658
Arctic-Yukon-Kuskokwim										
(I) Upper Copper River drainage ^a	61	20	84	0	0	58	0	0	0	19
(U) Tanana River drainage	0	0	0	0	0	0	0	0	0	0
(V) Kuskokwim River/Kuskokwim Bay drainages	0	0	0	0	0	0	0	0	0	0
(W) Seward Peninsula/Norton Sound	0	0	0	0	0	0	0	0	0	0
(X) Northwest Alaska	0	0	0	0	0	0	0	0	0	0
(Y) Yukon River drainage	0	0	0	0	0	0	0	0	0	0
(Z) North Slope/Brooks Range	0	0	0	0	0	0	0	0	0	0
Arctic-Yukon-Kuskokwim Total	61	20	84	0	0	58	0	0	0	19
Alaska Total	42,990	17,605	12,499	11,558	19,202	10,155	12,613	20,259	14,464	18,564

^a Area estimates reflect present-day survey area boundaries. Totals may differ from those found in previously published reports due to area boundary changes that have occurred across study years.

Table 2.61.—Alaska sport steelhead trout catch estimate **standard errors**, 2008–2017, by region and area.

Region/Area fished	Catch estimate standard errors									
	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Southeast										
(A) Ketchikan	1,376	945	136	60	247	45	35	61	32	239
(B) Prince of Wales Island	890	207	153	307	701	398	490	1,227	142	166
(C) Kake, Petersburg, Wrangell, Stikine	1,045	218	268	176	85	186	117	207	59	163
(D) Sitka	434	180	224	143	157	101	98	162	328	408
(E) Juneau	276	60	239	232	67	45	84	73	17	284
(F1) Skagway	0	6	0	0	0	0	10	0	7	0
(F2) Haines	21	0	18	0	13	10	57	0	0	0
(G) Glacier Bay	142	306	81	112	0	0	0	6	34	0
(H) Yakutat	2,971	1,082	1,111	2,209	2,305	914	768	1,696	1,303	2,134
Southeast Total	3,498	1,442	1,222	2,246	2,423	1,026	928	2,126	1,367	2,230
Southcentral										
(J) North Gulf Coast/Prince William Sound ^a	18	33	30	38	14	36	976	41	28	62
(K) Knik Arm	0	0	0	0	0	0	0	0	0	0
(L) Anchorage	0	0	0	37	0	0	0	0	0	0
(M) Susitna River drainage ^a	0	0	0	0	0	0	0	0	0	0
(N) West Cook Inlet drainages ^a	0	0	0	0	0	0	0	0	0	0
(PF) Kenai Peninsula freshwater ^a	2,960	1,530	534	279	664	606	718	1,677	661	1,449
(PS) Cook Inlet saltwater	269	22	0	57	230	159	34	143	119	207
(Q) Kodiak	1,107	526	282	876	165	347	471	1,081	1,582	566
(R) Alaska Peninsula/Aleutian Islands	105	0	152	0	0	8	434	145	184	640
(S) Kvichak River drainage	0	0	0	0	0	0	26	31	0	100
(T) Nushagak, Wood River and Togiak	0	0	0	0	0	0	0	45	0	280
Southcentral Total	3,166	1,620	621	907	714	708	1,378	2,023	1,708	1,708
Arctic-Yukon-Kuskokwim										
(I) Upper Copper River drainage ^a	29	12	59	0	0	44	0	0	0	19
(U) Tanana River drainage	0	0	0	0	0	0	0	0	0	0
(V) Kuskokwim River/Kuskokwim Bay drainages	0	0	0	0	0	0	0	0	0	0
(W) Seward Peninsula/Norton Sound	0	0	0	0	0	0	0	0	0	0
(X) Northwest Alaska	0	0	0	0	0	0	0	0	0	0
(Y) Yukon River drainage	0	0	0	0	0	0	0	0	0	0
(Z) North Slope/Brooks Range	0	0	0	0	0	0	0	0	0	0
Arctic-Yukon-Kuskokwim Total	29	12	59	0	0	44	0	0	0	19
Alaska Total	4,654	2,131	1,350	2,365	2,496	1,246	1,652	2,936	2,219	2,792

^a Area estimates reflect present-day survey area boundaries. Totals may differ from those found in previously published reports due to area boundary changes that have occurred across study years.

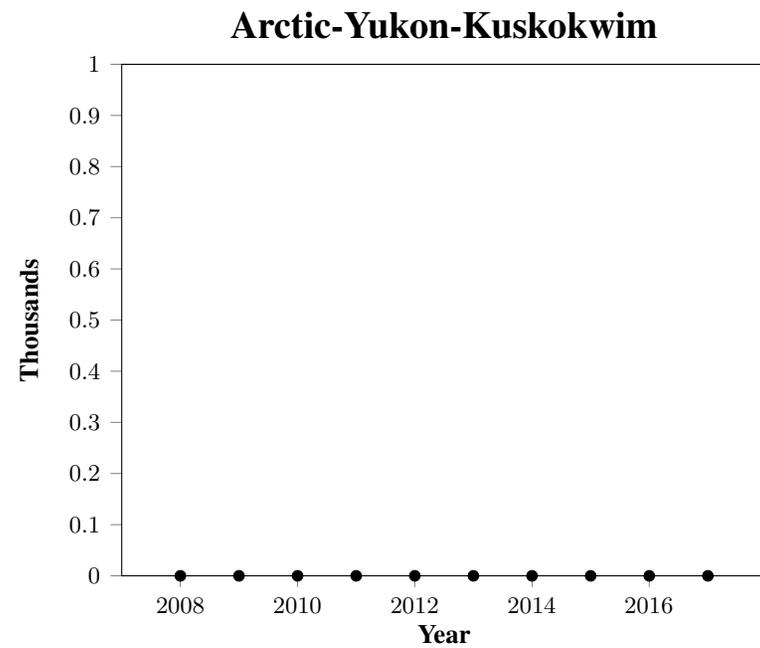
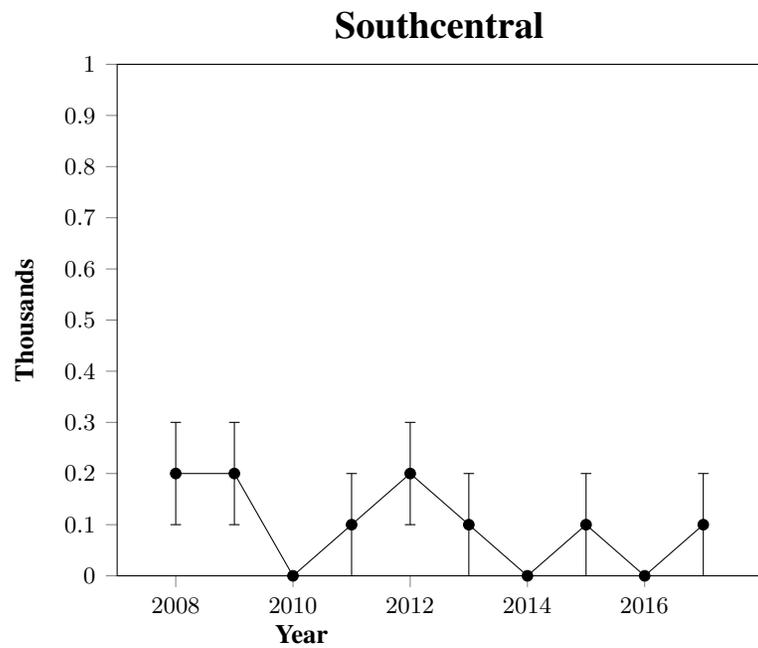
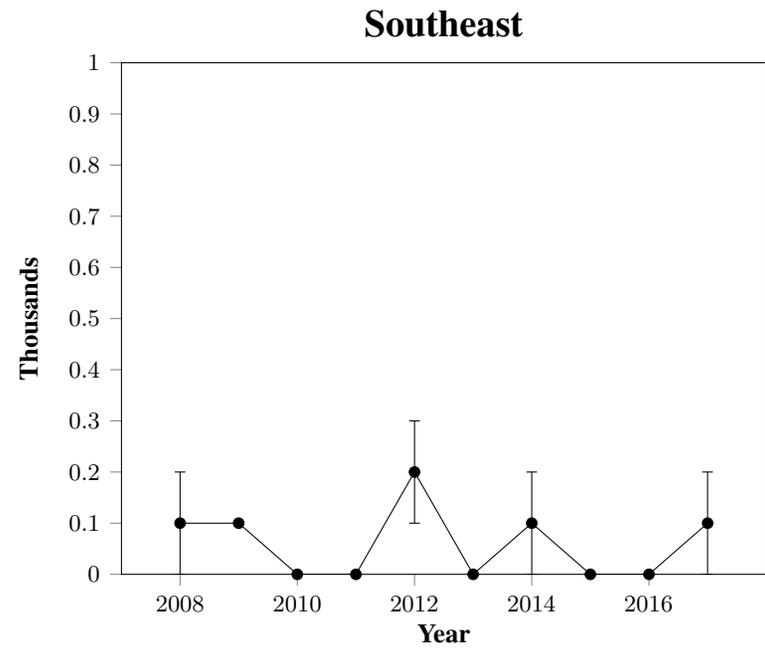
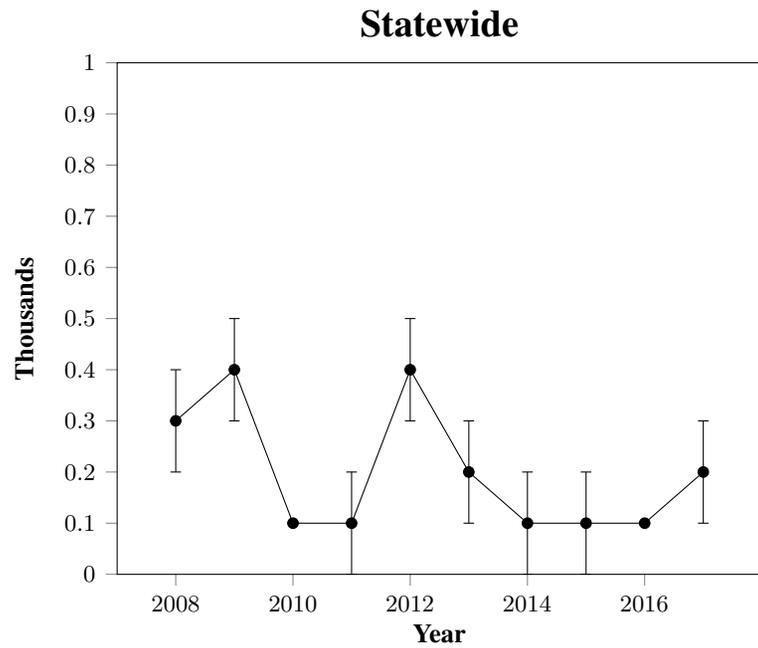


Figure 2.15.—Alaska sport steelhead trout harvest estimates and standard errors, 2008–2017, by region.

Note: Trends in harvest estimates can reflect changes in the abundance of fish, changes in angler effort, fishery management actions that reduce or liberalize harvest, or a combination of these and other factors.

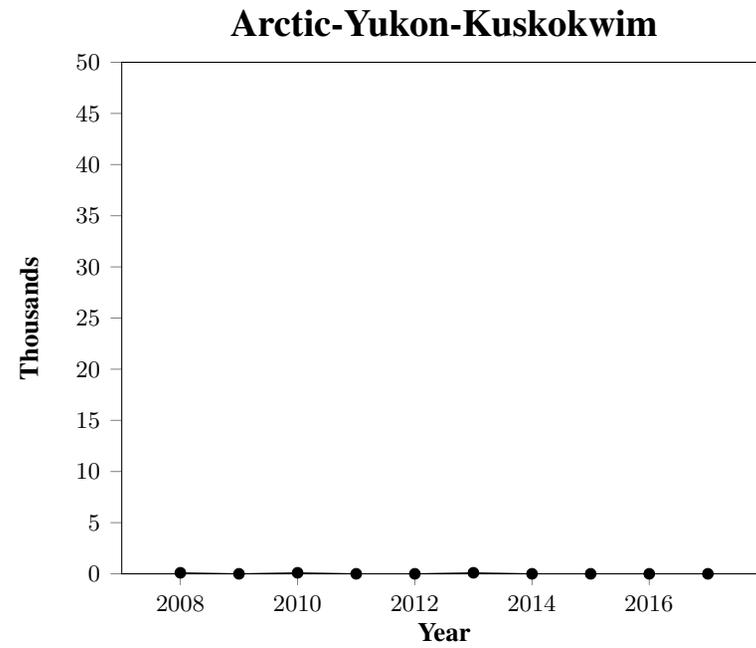
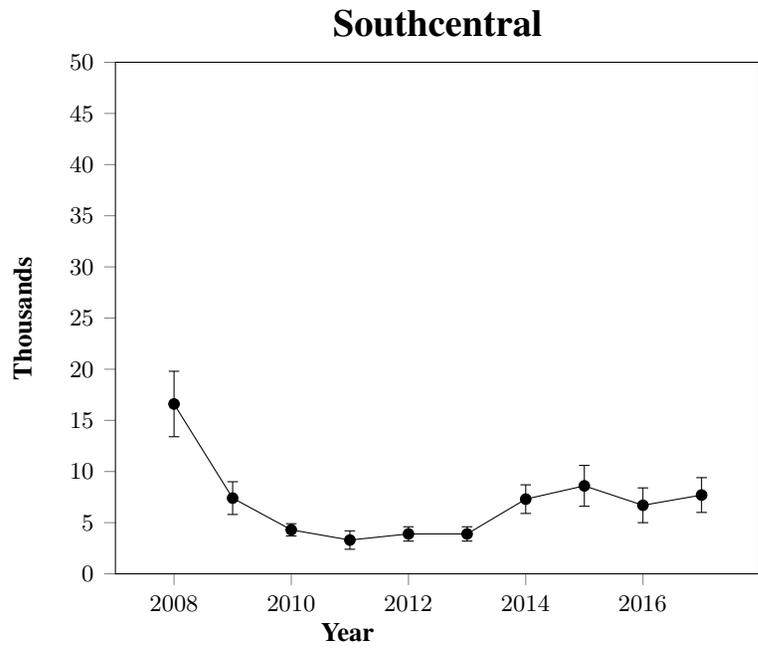
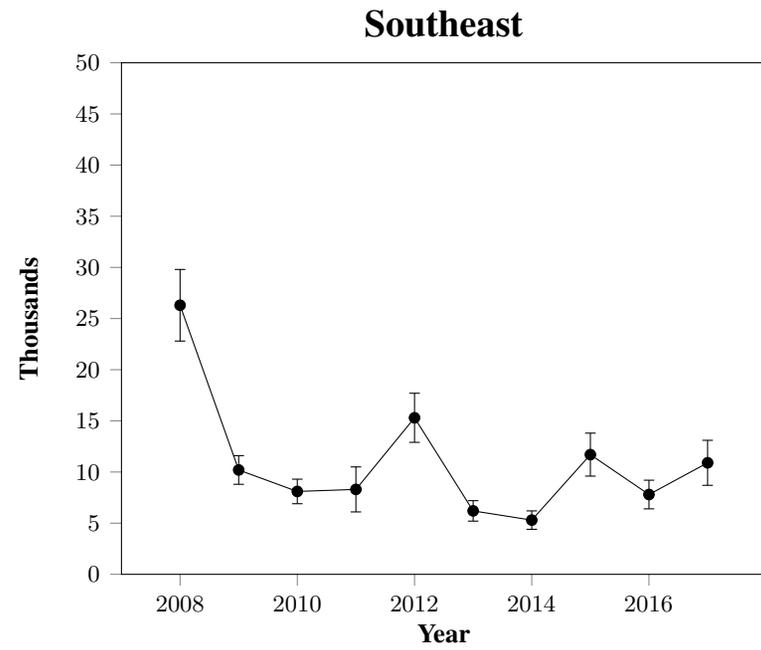
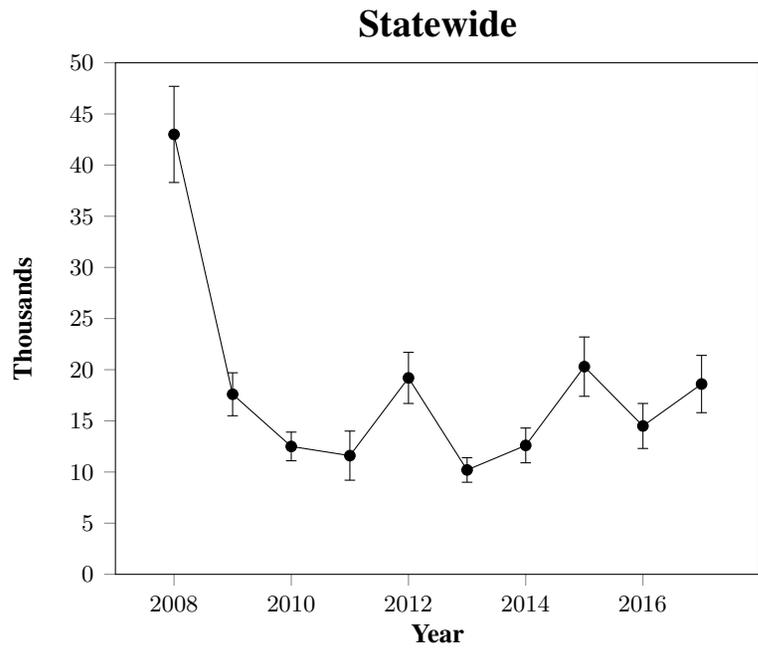


Figure 2.16.—Alaska sport steelhead trout catch estimates and standard errors, 2008–2017, by region.

Note: Trends in catch estimates can reflect changes in the abundance of fish, changes in angler effort, fishery management actions that reduce or liberalize harvest, or a combination of these and other factors.

Table 2.62.—Alaska sport rainbow trout harvest estimates, 2008–2017, by region and area.

Region/Area fished	Harvest estimates									
	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Southeast										
(A) Ketchikan	457	747	308	73	11	297	311	221	64	158
(B) Prince of Wales Island	345	244	402	83	261	320	56	287	75	94
(C) Kake, Petersburg, Wrangell, Stikine	68	17	0	27	0	34	85	67	160	325
(D) Sitka	67	36	91	81	60	140	64	125	59	82
(E) Juneau	0	50	72	20	17	14	28	39	0	18
(F1) Skagway	0	0	0	0	0	0	0	0	80	0
(F2) Haines	0	0	0	0	0	0	0	0	0	0
(G) Glacier Bay	92	13	0	0	0	34	14	0	0	0
(H) Yakutat	0	0	0	0	27	0	0	39	0	0
Southeast Total	1,029	1,107	873	284	376	839	558	778	438	677
Southcentral										
(J) North Gulf Coast/Prince William Sound ^a	30	50	307	20	418	630	42	129	221	105
(K) Knik Arm	15,537	7,981	10,845	9,368	7,277	9,195	9,286	10,265	10,463	9,375
(L) Anchorage	8,437	5,716	3,377	2,111	5,825	9,247	6,313	15,809	6,101	6,951
(M) Susitna River drainage ^a	2,391	1,621	2,260	1,430	802	1,716	2,280	1,326	1,666	1,179
(N) West Cook Inlet drainages ^a	106	10	89	43	102	0	32	61	0	0
(PF) Kenai Peninsula freshwater ^a	8,375	7,423	7,784	7,443	6,770	8,518	7,784	8,883	13,046	10,084
(PS) Cook Inlet saltwater	0	0	0	0	0	0	0	0	0	0
(Q) Kodiak	193	85	284	596	66	302	209	521	144	114
(R) Alaska Peninsula/Aleutian Islands	200	254	226	705	48	82	148	469	230	191
(S) Kvichak River drainage	889	48	204	996	154	183	166	269	331	66
(T) Nushagak, Wood River and Togiak	176	177	336	361	450	58	52	307	133	241
Southcentral Total	36,334	23,365	25,712	23,073	21,912	29,931	26,312	38,039	32,335	28,306
Arctic-Yukon-Kuskokwim										
(I) Upper Copper River drainage ^a	1,001	1,254	1,194	1,065	1,448	375	529	1,856	1,675	1,552
(U) Tanana River drainage	10,576	10,053	11,056	7,663	6,069	9,067	10,254	22,119	18,834	11,286
(V) Kuskokwim River/Kuskokwim Bay drainages	219	197	106	13	137	377	69	20	179	18
(W) Seward Peninsula/Norton Sound	0	0	0	0	0	0	0	0	0	0
(X) Northwest Alaska	0	0	0	0	0	0	0	0	0	0
(Y) Yukon River drainage	0	0	0	0	0	0	0	0	0	0
(Z) North Slope/Brooks Range	0	0	0	0	0	0	0	0	0	0
Arctic-Yukon-Kuskokwim Total	11,796	11,504	12,356	8,741	7,654	9,819	10,852	23,995	20,688	12,856
Alaska Total	49,159	35,976	38,941	32,098	29,942	40,589	37,722	62,812	53,461	41,839

^a Area estimates reflect present-day survey area boundaries. Totals may differ from those found in previously published reports due to area boundary changes that have occurred across study years.

Table 2.63.—Alaska sport rainbow trout harvest estimate **standard errors**, 2008–2017, by region and area.

Region/Area fished	Harvest estimate standard errors									
	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Southeast										
(A) Ketchikan	202	305	127	54	10	210	275	156	41	93
(B) Prince of Wales Island	137	132	165	51	154	144	40	139	50	49
(C) Kake, Petersburg, Wrangell, Stikine	37	17	0	25	0	37	75	67	165	179
(D) Sitka	41	36	52	62	30	85	65	94	48	62
(E) Juneau	0	52	48	20	16	14	27	42	0	19
(F1) Skagway	0	0	0	0	0	0	0	0	77	0
(F2) Haines	0	0	0	0	0	0	0	0	0	0
(G) Glacier Bay	93	14	0	0	0	26	14	0	0	0
(H) Yakutat	0	0	0	0	27	0	0	39	0	0
Southeast Total	263	344	223	103	158	266	293	245	198	220
Southcentral										
(J) North Gulf Coast/Prince William Sound ^a	21	51	275	20	306	318	32	94	105	64
(K) Knik Arm	2,199	1,101	1,348	1,425	1,175	1,173	1,397	1,292	1,392	1,414
(L) Anchorage	1,329	1,215	570	498	1,467	2,679	1,215	2,512	1,253	1,248
(M) Susitna River drainage ^a	544	415	490	329	219	485	454	439	363	313
(N) West Cook Inlet drainages ^a	61	10	63	31	62	0	32	41	0	0
(PF) Kenai Peninsula freshwater ^a	917	1,188	945	1,175	938	1,140	980	1,647	3,944	1,734
(PS) Cook Inlet saltwater	0	0	0	0	0	0	0	0	0	0
(Q) Kodiak	161	54	182	225	65	143	201	300	101	122
(R) Alaska Peninsula/Aleutian Islands	81	160	103	239	35	38	64	256	139	78
(S) Kvichak River drainage	371	41	94	539	130	93	91	217	197	38
(T) Nushagak, Wood River and Togiak	64	84	144	103	264	40	38	213	67	95
Southcentral Total	2,836	2,073	1,813	2,001	2,175	3,195	2,210	3,249	4,435	2,605
Arctic-Yukon-Kuskokwim										
(I) Upper Copper River drainage ^a	366	343	310	355	379	241	184	707	709	444
(U) Tanana River drainage	1,452	1,440	1,312	1,462	1,133	1,626	1,634	4,899	3,404	2,444
(V) Kuskokwim River/Kuskokwim Bay drainages	109	80	57	14	110	211	32	21	73	17
(W) Seward Peninsula/Norton Sound	0	0	0	0	0	0	0	0	0	0
(X) Northwest Alaska	0	0	0	0	0	0	0	0	0	0
(Y) Yukon River drainage	0	0	0	0	0	0	0	0	0	0
(Z) North Slope/Brooks Range	0	0	0	0	0	0	0	0	0	0
Arctic-Yukon-Kuskokwim Total	1,500	1,490	1,355	1,516	1,202	1,651	1,656	4,937	3,455	2,489
Alaska Total	3,231	2,610	2,278	2,531	2,480	3,577	2,870	5,847	5,684	3,707

^a Area estimates reflect present-day survey area boundaries. Totals may differ from those found in previously published reports due to area boundary changes that have occurred across study years.

Table 2.64.—Alaska sport rainbow trout catch estimates, 2008–2017, by region and area.

Region/Area fished	Catch estimates									
	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Southeast										
(A) Ketchikan	4,271	3,183	4,051	2,222	385	4,480	2,752	1,352	615	1,401
(B) Prince of Wales Island	5,190	2,994	2,653	2,268	4,476	1,957	5,460	4,092	2,014	2,096
(C) Kake, Petersburg, Wrangell, Stikine	229	608	431	214	128	170	302	767	760	1,033
(D) Sitka	2,157	1,034	1,258	1,281	606	1,770	1,563	2,988	697	1,688
(E) Juneau	284	655	432	150	467	417	588	946	112	549
(F1) Skagway	115	0	228	0	0	39	0	0	356	0
(F2) Haines	0	0	0	0	0	0	0	0	0	0
(G) Glacier Bay	102	254	241	105	0	48	82	136	32	0
(H) Yakutat	154	562	437	463	1,329	124	2,080	1,298	583	281
Southeast Total	12,502	9,290	9,731	6,703	7,391	9,005	12,827	11,579	5,169	7,048
Southcentral										
(J) North Gulf Coast/Prince William Sound ^a	94	695	1,170	804	1,595	2,131	546	1,778	1,474	1,222
(K) Knik Arm	67,585	39,983	42,267	44,805	29,680	52,070	46,671	51,799	46,449	51,065
(L) Anchorage	43,646	32,120	26,184	15,961	28,349	48,235	37,947	65,952	36,234	24,710
(M) Susitna River drainage ^a	57,600	65,522	60,743	97,053	52,287	64,838	75,849	86,824	58,363	33,314
(N) West Cook Inlet drainages ^a	1,276	1,322	746	843	376	876	1,546	880	769	585
(PF) Kenai Peninsula freshwater ^a	253,913	258,136	213,501	239,588	213,124	219,227	199,539	313,106	239,477	244,131
(PS) Cook Inlet saltwater	0	0	0	0	0	0	0	0	0	0
(Q) Kodiak	1,960	567	3,339	7,408	1,714	4,364	3,580	4,421	1,621	2,045
(R) Alaska Peninsula/Aleutian Islands	50,964	60,910	49,651	49,063	34,926	36,895	44,106	38,176	50,120	49,436
(S) Kvichak River drainage	121,793	128,277	128,218	84,715	79,835	101,134	111,167	123,618	119,127	114,431
(T) Nushagak, Wood River and Togiak	30,822	31,408	16,303	23,612	14,031	14,157	20,423	30,496	23,888	30,282
Southcentral Total	629,653	618,940	542,122	563,852	455,917	543,927	541,374	717,050	577,522	551,221
Arctic-Yukon-Kuskokwim										
(I) Upper Copper River drainage ^a	10,035	7,117	9,975	8,292	9,296	5,975	4,664	5,059	10,927	12,184
(U) Tanana River drainage	41,522	42,664	49,225	35,547	31,385	31,462	37,250	60,475	46,584	30,366
(V) Kuskokwim River/Kuskokwim Bay drainages	54,877	49,534	35,470	37,049	26,511	40,530	36,466	35,390	38,878	44,408
(W) Seward Peninsula/Norton Sound	0	0	0	0	0	0	0	0	0	0
(X) Northwest Alaska	0	0	0	0	0	0	0	0	0	0
(Y) Yukon River drainage	0	0	0	0	0	0	0	0	0	0
(Z) North Slope/Brooks Range	0	0	0	0	0	0	0	0	0	0
Arctic-Yukon-Kuskokwim Total	106,434	99,315	94,670	80,888	67,192	77,967	78,380	100,924	96,389	86,958
Alaska Total	748,589	727,545	646,523	651,443	530,500	630,899	632,581	829,553	679,080	645,227

^a Area estimates reflect present-day survey area boundaries. Totals may differ from those found in previously published reports due to area boundary changes that have occurred across study years.

Table 2.65.—Alaska sport rainbow trout catch estimate **standard errors**, 2008–2017, by region and area.

Region/Area fished	Catch estimate standard errors									
	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Southeast										
(A) Ketchikan	1,058	845	2,134	1,075	226	2,630	1,744	442	209	473
(B) Prince of Wales Island	1,736	682	630	652	1,115	605	2,631	1,275	583	644
(C) Kake, Petersburg, Wrangell, Stikine	136	196	187	111	67	93	227	308	549	535
(D) Sitka	915	393	572	643	269	651	535	1,172	281	686
(E) Juneau	131	254	211	73	342	235	280	557	94	226
(F1) Skagway	109	0	233	0	0	39	0	0	309	0
(F2) Haines	0	0	0	0	0	0	0	0	0	0
(G) Glacier Bay	93	161	140	84	0	29	37	116	31	0
(H) Yakutat	57	346	195	245	729	61	991	438	216	119
Southeast Total	2,225	1,263	2,348	1,410	1,416	2,745	3,442	1,971	935	1,215
Southcentral										
(J) North Gulf Coast/Prince William Sound ^a	59	413	498	380	1,200	779	310	836	634	605
(K) Knik Arm	9,990	4,075	5,324	5,792	3,557	5,825	6,844	6,262	5,962	8,138
(L) Anchorage	5,328	4,256	5,029	2,874	6,036	8,860	8,024	12,015	10,561	4,064
(M) Susitna River drainage ^a	5,077	6,095	6,234	11,793	8,841	8,721	8,775	15,809	7,346	5,092
(N) West Cook Inlet drainages ^a	504	574	294	366	190	373	644	405	557	261
(PF) Kenai Peninsula freshwater ^a	24,852	17,457	12,684	23,396	23,561	13,989	11,172	28,508	17,007	31,915
(PS) Cook Inlet saltwater	0	0	0	0	0	0	0	0	0	0
(Q) Kodiak	585	199	863	2,732	669	1,410	1,591	1,549	649	1,214
(R) Alaska Peninsula/Aleutian Islands	4,938	5,912	5,982	5,831	4,418	4,930	5,463	5,530	8,707	8,329
(S) Kvichak River drainage	8,501	10,681	12,140	9,670	9,880	11,296	12,359	17,210	12,006	11,660
(T) Nushagak, Wood River and Togiak	4,131	3,629	2,076	3,720	3,132	2,076	2,952	5,126	4,302	4,521
Southcentral Total	30,460	22,990	20,877	29,368	28,202	23,385	21,835	39,237	27,846	35,704
Arctic-Yukon-Kuskokwim										
(I) Upper Copper River drainage ^a	2,179	1,420	1,899	2,915	2,210	1,573	1,131	1,066	2,485	3,714
(U) Tanana River drainage	5,480	5,828	8,186	5,539	7,025	4,989	5,278	9,131	5,615	4,198
(V) Kuskokwim River/Kuskokwim Bay drainages	7,890	7,068	7,170	5,434	4,033	7,196	6,123	5,937	7,809	6,743
(W) Seward Peninsula/Norton Sound	0	0	0	0	0	0	0	0	0	0
(X) Northwest Alaska	0	0	0	0	0	0	0	0	0	0
(Y) Yukon River drainage	0	0	0	0	0	0	0	0	0	0
(Z) North Slope/Brooks Range	0	0	0	0	0	0	0	0	0	0
Arctic-Yukon-Kuskokwim Total	9,877	9,161	11,018	8,050	8,319	9,068	8,096	10,896	9,952	8,804
Alaska Total	32,088	24,584	23,984	30,743	29,236	24,991	23,817	41,243	29,404	36,720

^a Area estimates reflect present-day survey area boundaries. Totals may differ from those found in previously published reports due to area boundary changes that have occurred across study years.

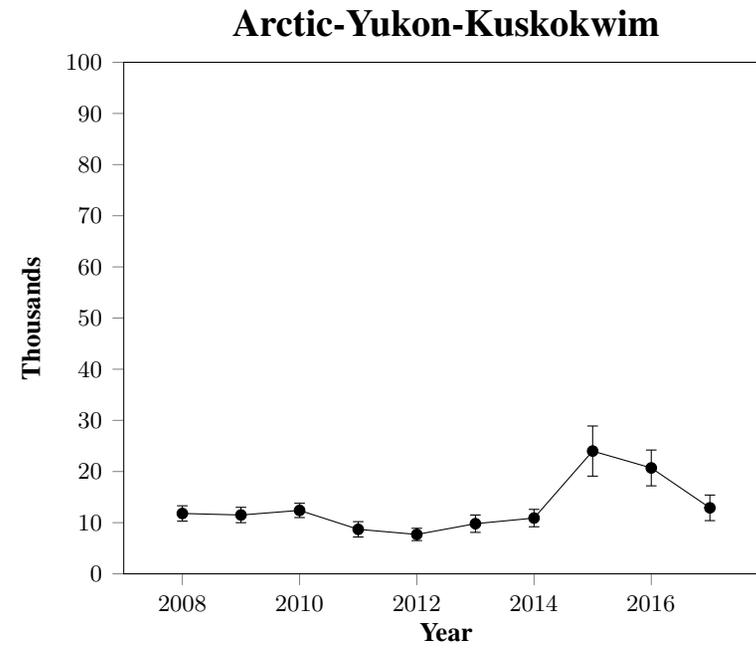
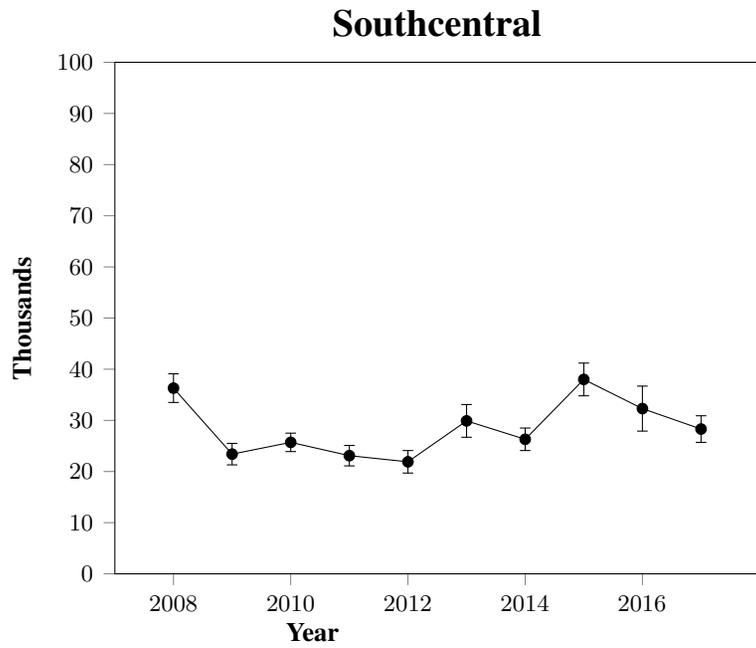
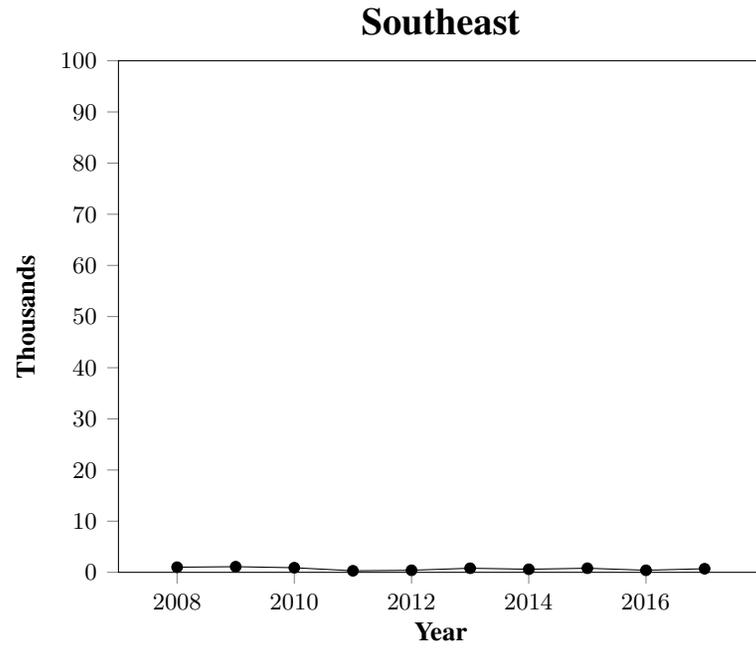
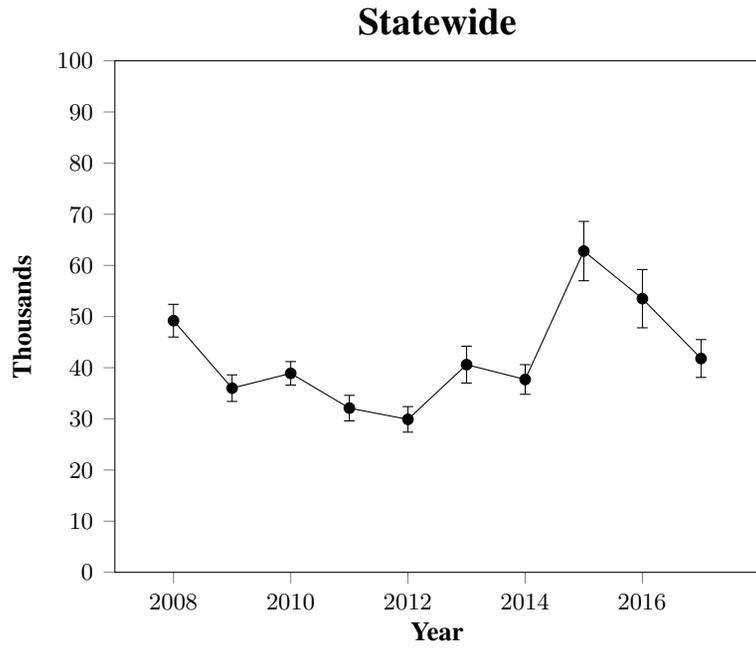


Figure 2.17.—Alaska sport rainbow trout harvest estimates and standard errors, 2008–2017, by region.

Note: Trends in harvest estimates can reflect changes in the abundance of fish, changes in angler effort, fishery management actions that reduce or liberalize harvest, or a combination of these and other factors.

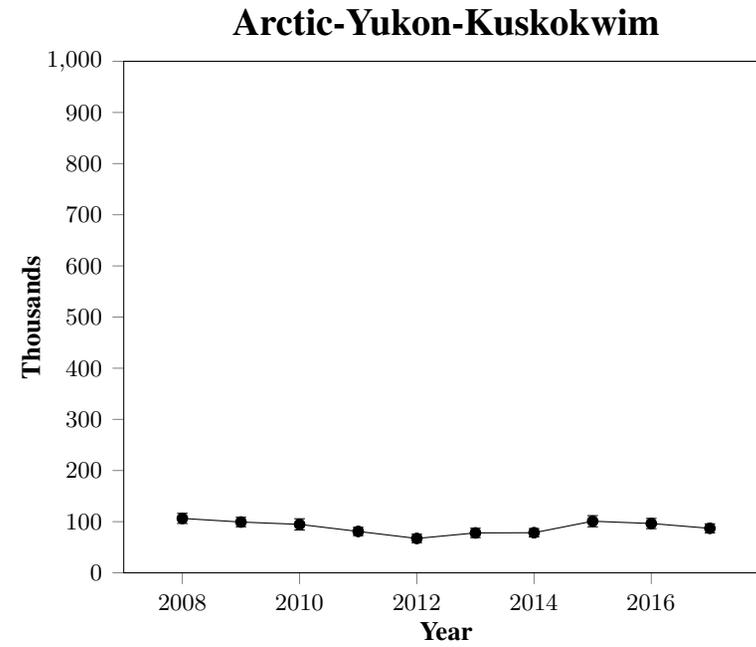
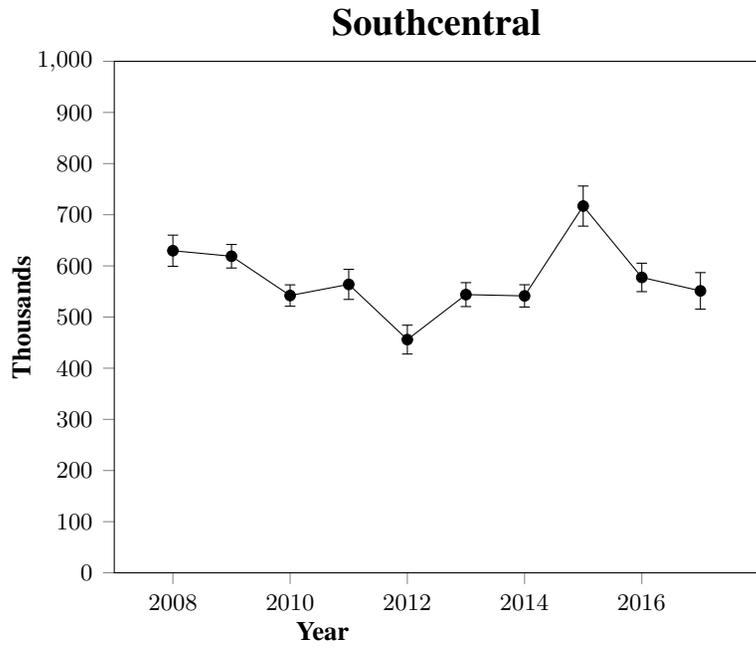
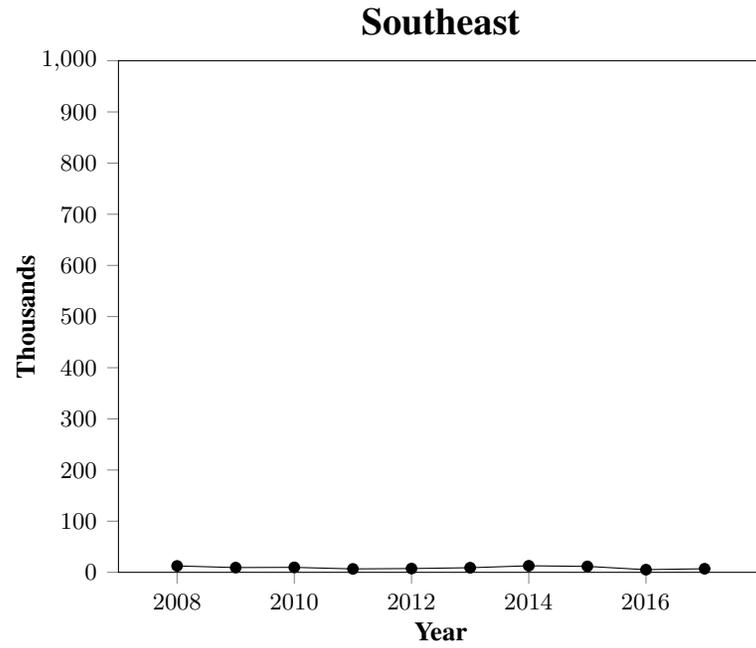
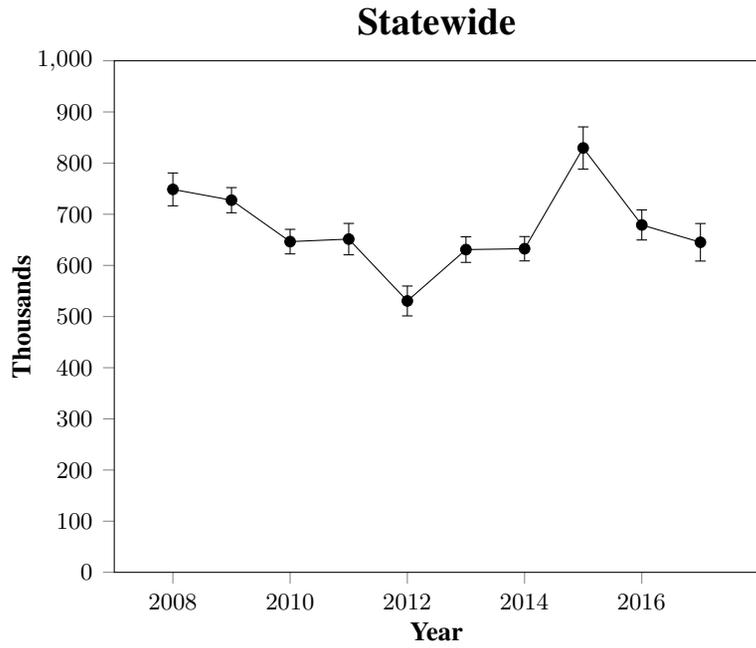


Figure 2.18.—Alaska sport rainbow trout catch estimates and standard errors, 2008–2017, by region.

Note: Trends in catch estimates can reflect changes in the abundance of fish, changes in angler effort, fishery management actions that reduce or liberalize harvest, or a combination of these and other factors.

Table 2.66.—Alaska sport cutthroat trout harvest estimates, 2008–2017, by region and area.

Region/Area fished	Harvest estimates									
	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Southeast										
(A) Ketchikan	305	576	329	182	116	258	259	0	70	72
(B) Prince of Wales Island	525	451	438	369	382	383	344	531	204	81
(C) Kake, Petersburg, Wrangell, Stikine	933	1,042	557	574	591	414	1,503	1,373	445	204
(D) Sitka	324	127	81	233	83	109	126	35	225	78
(E) Juneau	140	484	296	387	61	125	1,430	251	270	9
(F1) Skagway	0	0	0	0	0	0	0	0	0	0
(F2) Haines	342	262	231	186	50	72	163	347	53	184
(G) Glacier Bay	37	70	195	72	33	165	102	28	167	27
(H) Yakutat	14	0	15	0	12	0	0	95	78	19
Southeast Total	2,620	3,012	2,142	2,003	1,328	1,526	3,927	2,660	1,512	674
Southcentral										
(J) North Gulf Coast/Prince William Sound ^a	289	632	566	687	301	366	255	377	74	72
(K) Knik Arm	0	0	0	0	0	0	0	0	0	0
(L) Anchorage	0	0	0	0	0	0	0	0	0	0
(M) Susitna River drainage ^a	0	0	0	0	0	0	0	0	0	0
(N) West Cook Inlet drainages ^a	0	0	0	0	0	0	0	0	0	0
(PF) Kenai Peninsula freshwater ^a	0	0	0	0	0	0	0	0	0	0
(PS) Cook Inlet saltwater	0	0	0	0	0	0	0	0	0	0
(Q) Kodiak	0	0	0	0	0	0	0	0	0	0
(R) Alaska Peninsula/Aleutian Islands	0	0	0	0	0	0	0	0	0	0
(S) Kvichak River drainage	0	0	0	0	0	0	0	0	0	0
(T) Nushagak, Wood River and Togiak	0	0	0	0	0	0	0	0	0	0
Southcentral Total	289	632	566	687	301	366	255	377	74	72
Arctic-Yukon-Kuskokwim										
(I) Upper Copper River drainage ^a	0	0	0	0	0	0	0	0	0	0
(U) Tanana River drainage	0	0	0	0	0	0	0	0	0	0
(V) Kuskokwim River/Kuskokwim Bay drainages	0	0	0	0	0	0	0	0	0	0
(W) Seward Peninsula/Norton Sound	0	0	0	0	0	0	0	0	0	0
(X) Northwest Alaska	0	0	0	0	0	0	0	0	0	0
(Y) Yukon River drainage	0	0	0	0	0	0	0	0	0	0
(Z) North Slope/Brooks Range	0	0	0	0	0	0	0	0	0	0
Arctic-Yukon-Kuskokwim Total	0	0	0	0	0	0	0	0	0	0
Alaska Total	2,909	3,644	2,708	2,690	1,629	1,892	4,182	3,037	1,586	746

^a Area estimates reflect present-day survey area boundaries. Totals may differ from those found in previously published reports due to area boundary changes that have occurred across study years.

Table 2.67.--Alaska sport cutthroat trout harvest estimate **standard errors**, 2008–2017, by region and area.

Region/Area fished	Harvest estimate standard errors									
	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Southeast										
(A) Ketchikan	117	184	166	88	60	103	120	0	59	61
(B) Prince of Wales Island	147	158	137	131	154	135	163	235	94	66
(C) Kake, Petersburg, Wrangell, Stikine	259	240	212	158	175	173	536	397	181	91
(D) Sitka	161	95	41	138	44	61	74	26	125	79
(E) Juneau	59	144	106	141	36	50	539	143	90	9
(F1) Skagway	0	0	0	0	0	0	0	0	0	0
(F2) Haines	156	99	112	78	23	35	89	158	35	98
(G) Glacier Bay	23	38	101	71	33	86	58	20	105	28
(H) Yakutat	14	0	16	0	12	0	0	92	57	19
Southeast Total	413	409	354	312	252	261	803	514	294	186
Southcentral										
(J) North Gulf Coast/Prince William Sound ^a	97	248	259	280	135	185	105	174	34	47
(K) Knik Arm	0	0	0	0	0	0	0	0	0	0
(L) Anchorage	0	0	0	0	0	0	0	0	0	0
(M) Susitna River drainage ^a	0	0	0	0	0	0	0	0	0	0
(N) West Cook Inlet drainages ^a	0	0	0	0	0	0	0	0	0	0
(PF) Kenai Peninsula freshwater ^a	0	0	0	0	0	0	0	0	0	0
(PS) Cook Inlet saltwater	0	0	0	0	0	0	0	0	0	0
(Q) Kodiak	0	0	0	0	0	0	0	0	0	0
(R) Alaska Peninsula/Aleutian Islands	0	0	0	0	0	0	0	0	0	0
(S) Kvichak River drainage	0	0	0	0	0	0	0	0	0	0
(T) Nushagak, Wood River and Togiak	0	0	0	0	0	0	0	0	0	0
Southcentral Total	97	248	259	280	135	185	105	174	34	47
Arctic-Yukon-Kuskokwim										
(I) Upper Copper River drainage ^a	0	0	0	0	0	0	0	0	0	0
(U) Tanana River drainage	0	0	0	0	0	0	0	0	0	0
(V) Kuskokwim River/Kuskokwim Bay drainages	0	0	0	0	0	0	0	0	0	0
(W) Seward Peninsula/Norton Sound	0	0	0	0	0	0	0	0	0	0
(X) Northwest Alaska	0	0	0	0	0	0	0	0	0	0
(Y) Yukon River drainage	0	0	0	0	0	0	0	0	0	0
(Z) North Slope/Brooks Range	0	0	0	0	0	0	0	0	0	0
Arctic-Yukon-Kuskokwim Total	0	0	0	0	0	0	0	0	0	0
Alaska Total	422	470	430	416	288	320	804	533	296	188

^a Area estimates reflect present-day survey area boundaries. Totals may differ from those found in previously published reports due to area boundary changes that have occurred across study years.

Table 2.68.—Alaska sport cutthroat trout catch estimates, 2008–2017, by region and area.

Region/Area fished	Catch estimates									
	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Southeast										
(A) Ketchikan	5,087	8,989	4,661	2,670	1,362	4,761	3,856	1,207	3,334	2,152
(B) Prince of Wales Island	7,933	5,704	5,800	4,526	4,440	3,929	7,674	3,869	1,415	853
(C) Kake, Petersburg, Wrangell, Stikine	5,720	9,359	4,482	4,343	2,812	2,970	6,506	5,982	7,465	7,515
(D) Sitka	1,966	1,883	2,038	1,976	905	3,447	3,767	2,962	3,250	1,218
(E) Juneau	2,861	5,577	5,355	2,440	2,501	1,085	4,873	4,494	2,824	1,924
(F1) Skagway	0	50	127	0	0	0	0	0	0	0
(F2) Haines	567	2,125	711	1,171	312	376	1,977	1,568	1,081	438
(G) Glacier Bay	498	1,019	2,113	662	1,060	450	338	626	678	213
(H) Yakutat	157	77	285	1,036	354	412	2,214	1,166	393	265
Southeast Total	24,789	34,783	25,572	18,824	13,746	17,430	31,205	21,874	20,440	14,578
Southcentral										
(J) North Gulf Coast/Prince William Sound ^a	1,126	2,516	2,660	4,228	1,217	934	1,737	1,421	1,809	695
(K) Knik Arm	0	0	0	0	0	0	0	0	0	0
(L) Anchorage	0	0	0	0	0	0	0	0	0	0
(M) Susitna River drainage ^a	0	0	0	0	0	0	0	0	0	0
(N) West Cook Inlet drainages ^a	0	0	0	0	0	0	0	0	0	0
(PF) Kenai Peninsula freshwater ^a	0	0	0	0	0	0	0	0	0	0
(PS) Cook Inlet saltwater	0	0	15	0	0	0	0	0	0	0
(Q) Kodiak	0	0	0	0	0	0	0	0	0	0
(R) Alaska Peninsula/Aleutian Islands	0	0	0	0	0	0	0	0	0	0
(S) Kvichak River drainage	0	0	0	0	0	0	0	0	0	0
(T) Nushagak, Wood River and Togiak	0	0	0	0	0	0	0	0	0	0
Southcentral Total	1,126	2,516	2,675	4,228	1,217	934	1,737	1,421	1,809	695
Arctic-Yukon-Kuskokwim										
(I) Upper Copper River drainage ^a	0	0	0	0	0	0	0	0	0	0
(U) Tanana River drainage	0	0	0	0	0	0	0	0	0	0
(V) Kuskokwim River/Kuskokwim Bay drainages	0	0	0	0	0	0	0	0	0	0
(W) Seward Peninsula/Norton Sound	0	0	0	0	0	0	0	0	0	0
(X) Northwest Alaska	0	0	0	0	0	0	0	0	0	0
(Y) Yukon River drainage	0	0	0	0	0	0	0	0	0	0
(Z) North Slope/Brooks Range	0	0	0	0	0	0	0	0	0	0
Arctic-Yukon-Kuskokwim Total	0	0	0	0	0	0	0	0	0	0
Alaska Total	25,915	37,299	28,247	23,052	14,963	18,364	32,942	23,295	22,249	15,273

^a Area estimates reflect present-day survey area boundaries. Totals may differ from those found in previously published reports due to area boundary changes that have occurred across study years.

Table 2.69.—Alaska sport cutthroat trout catch estimate **standard errors**, 2008–2017, by region and area.

Region/Area fished	Catch estimate standard errors									
	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Southeast										
(A) Ketchikan	1,523	2,889	1,784	1,222	452	1,468	1,141	507	1,511	921
(B) Prince of Wales Island	1,606	1,292	1,625	1,059	1,312	1,814	2,872	976	383	277
(C) Kake, Petersburg, Wrangell, Stikine	1,626	2,764	1,098	1,052	572	938	2,459	1,583	3,191	3,199
(D) Sitka	623	559	700	832	267	1,363	1,185	1,256	978	520
(E) Juneau	840	1,442	1,570	567	975	374	1,615	1,491	1,027	796
(F1) Skagway	0	49	129	0	0	0	0	0	0	0
(F2) Haines	211	1,242	288	630	178	184	879	530	975	236
(G) Glacier Bay	221	375	778	335	675	254	132	421	272	140
(H) Yakutat	77	68	162	533	174	210	1,342	686	195	102
Southeast Total	3,000	4,803	3,271	2,228	1,991	2,926	4,840	2,819	3,952	3,467
Southcentral										
(J) North Gulf Coast/Prince William Sound ^a	381	770	766	1,626	340	396	610	474	725	310
(K) Knik Arm	0	0	0	0	0	0	0	0	0	0
(L) Anchorage	0	0	0	0	0	0	0	0	0	0
(M) Susitna River drainage ^a	0	0	0	0	0	0	0	0	0	0
(N) West Cook Inlet drainages ^a	0	0	0	0	0	0	0	0	0	0
(PF) Kenai Peninsula freshwater ^a	0	0	0	0	0	0	0	0	0	0
(PS) Cook Inlet saltwater	0	0	15	0	0	0	0	0	0	0
(Q) Kodiak	0	0	0	0	0	0	0	0	0	0
(R) Alaska Peninsula/Aleutian Islands	0	0	0	0	0	0	0	0	0	0
(S) Kvichak River drainage	0	0	0	0	0	0	0	0	0	0
(T) Nushagak, Wood River and Togiak	0	0	0	0	0	0	0	0	0	0
Southcentral Total	381	770	766	1,626	340	396	610	474	725	310
Arctic-Yukon-Kuskokwim										
(I) Upper Copper River drainage ^a	0	0	0	0	0	0	0	0	0	0
(U) Tanana River drainage	0	0	0	0	0	0	0	0	0	0
(V) Kuskokwim River/Kuskokwim Bay drainages	0	0	0	0	0	0	0	0	0	0
(W) Seward Peninsula/Norton Sound	0	0	0	0	0	0	0	0	0	0
(X) Northwest Alaska	0	0	0	0	0	0	0	0	0	0
(Y) Yukon River drainage	0	0	0	0	0	0	0	0	0	0
(Z) North Slope/Brooks Range	0	0	0	0	0	0	0	0	0	0
Arctic-Yukon-Kuskokwim Total	0	0	0	0	0	0	0	0	0	0
Alaska Total	3,013	4,877	3,337	2,763	2,025	2,941	4,849	2,835	4,055	3,481

^a Area estimates reflect present-day survey area boundaries. Totals may differ from those found in previously published reports due to area boundary changes that have occurred across study years.

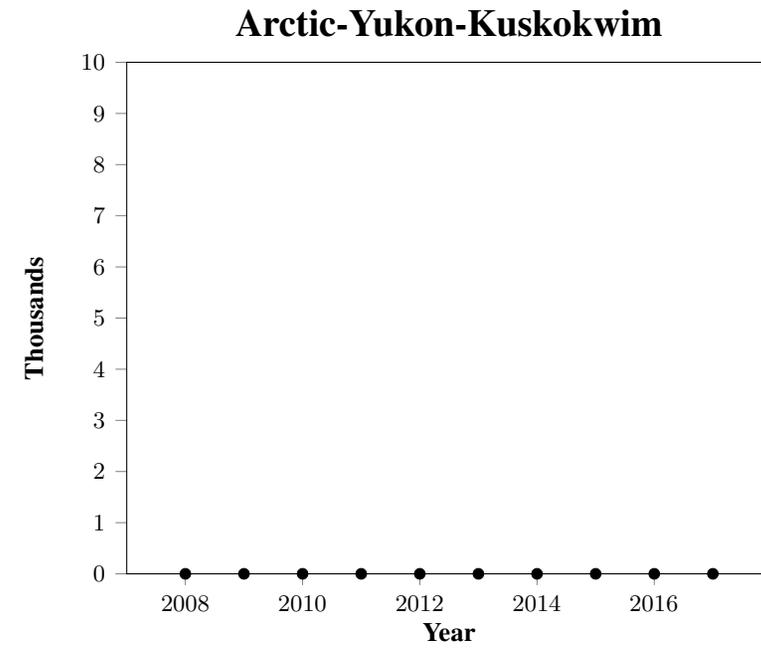
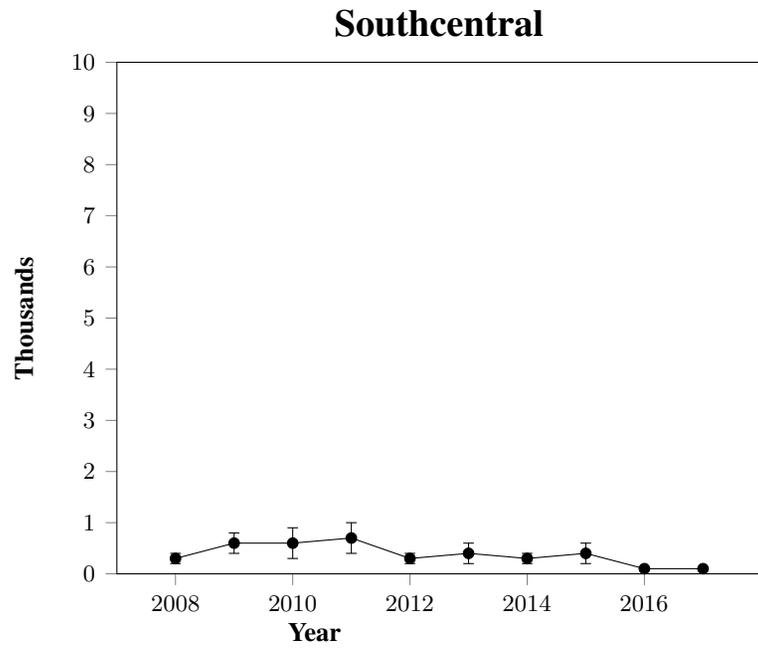
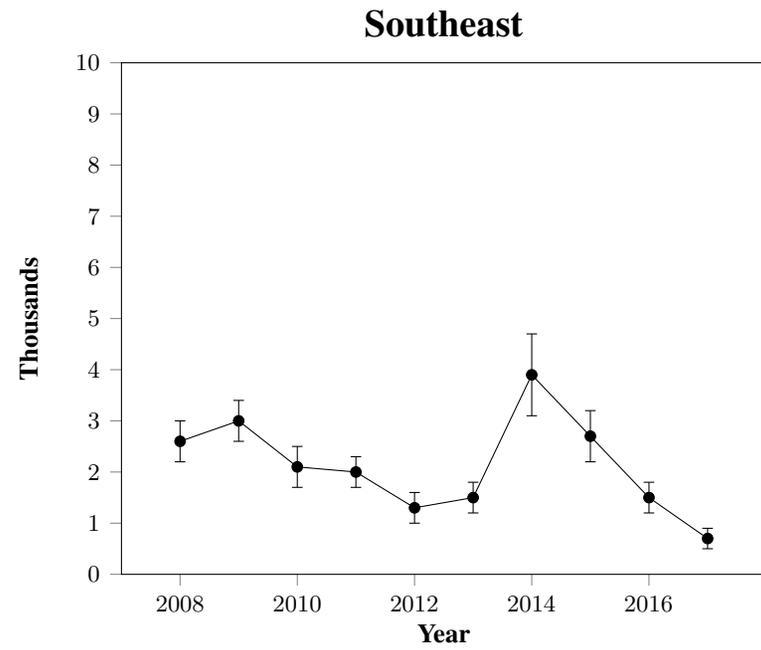
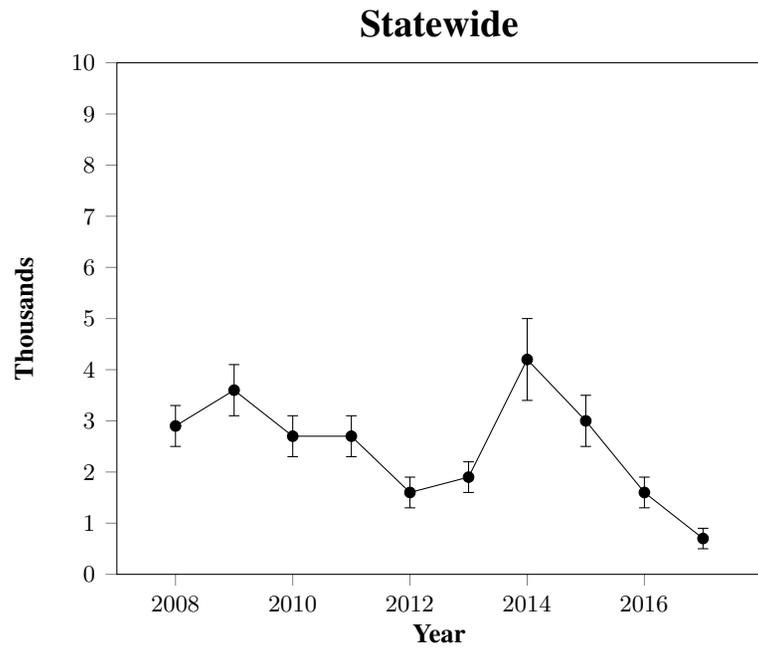


Figure 2.19.—Alaska sport cutthroat trout harvest estimates and standard errors, 2008–2017, by region.

Note: Trends in harvest estimates can reflect changes in the abundance of fish, changes in angler effort, fishery management actions that reduce or liberalize harvest, or a combination of these and other factors.

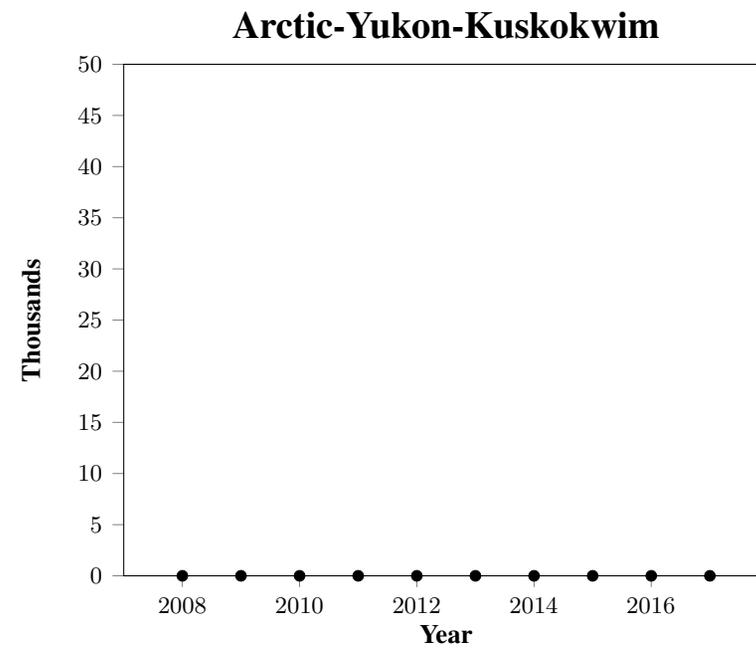
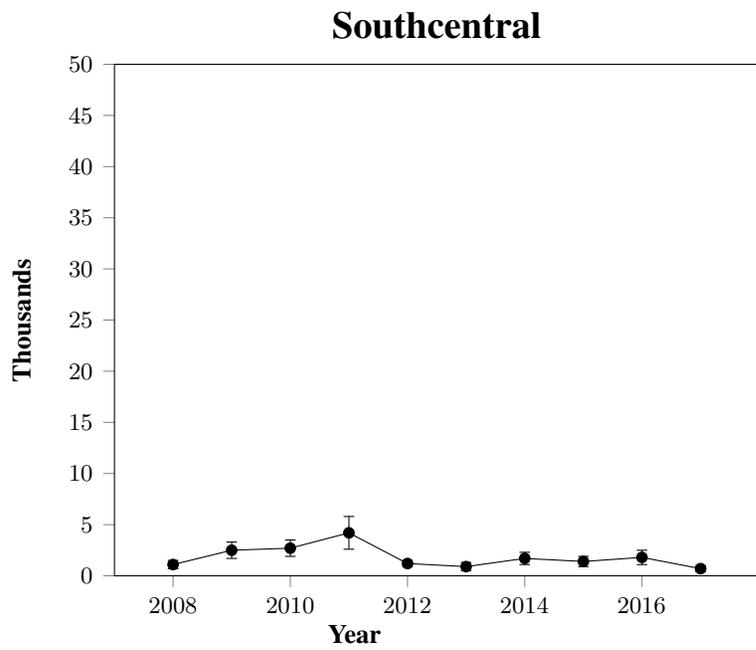
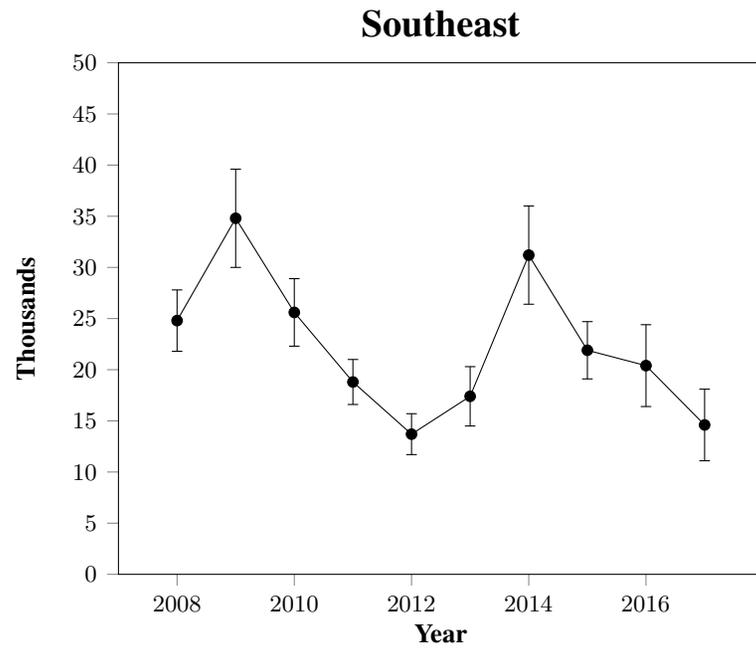
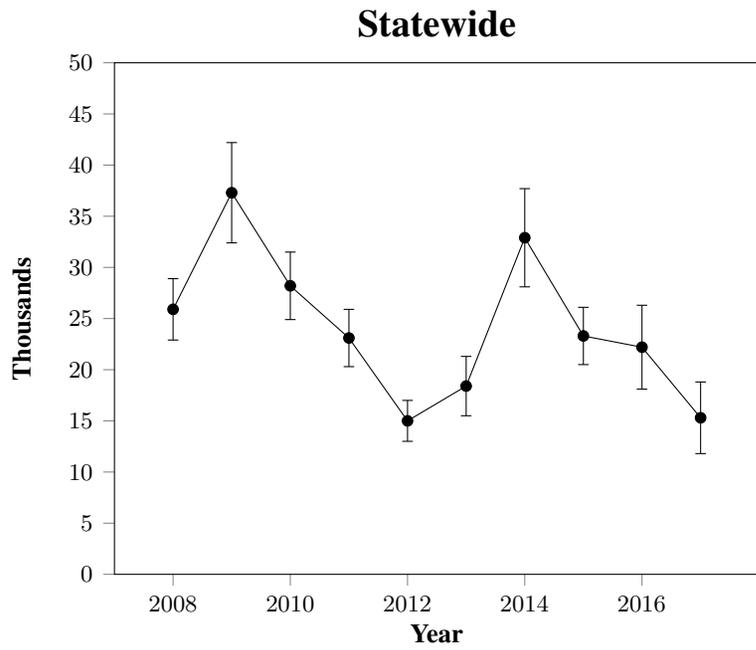


Figure 2.20.—Alaska sport cutthroat trout catch estimates and standard errors, 2008–2017, by region.

Note: Trends in catch estimates can reflect changes in the abundance of fish, changes in angler effort, fishery management actions that reduce or liberalize harvest, or a combination of these and other factors.

Table 2.70.—Alaska sport lake trout harvest estimates, 2008–2017, by region and area.

Region/Area fished	Harvest estimates									
	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Southeast										
(A) Ketchikan	0	0	0	0	0	0	0	0	0	0
(B) Prince of Wales Island	0	0	0	0	0	0	0	0	0	0
(C) Kake, Petersburg, Wrangell, Stikine	0	0	0	0	0	0	0	0	0	0
(D) Sitka	0	0	0	0	0	0	0	0	0	0
(E) Juneau	0	0	0	0	0	0	0	0	0	0
(F1) Skagway	0	0	0	0	0	0	0	0	0	0
(F2) Haines	0	0	0	0	0	0	0	0	0	0
(G) Glacier Bay	0	0	0	0	0	0	0	0	0	0
(H) Yakutat	0	0	0	0	0	0	0	0	0	0
Southeast Total	0	0	0	0	0	0	0	0	0	0
Southcentral										
(J) North Gulf Coast/Prince William Sound ^a	0	52	0	0	0	0	0	0	0	0
(K) Knik Arm	300	71	100	0	48	0	12	20	0	0
(L) Anchorage	246	36	364	17	133	48	62	20	21	43
(M) Susitna River drainage ^a	1,033	1,135	879	970	448	525	582	897	800	346
(N) West Cook Inlet drainages ^a	0	0	0	17	6	11	0	16	0	0
(PF) Kenai Peninsula freshwater ^a	590	915	821	416	366	1,458	711	655	1,079	679
(PS) Cook Inlet saltwater	0	0	0	0	0	0	0	0	0	0
(Q) Kodiak	0	0	0	0	0	0	0	0	0	0
(R) Alaska Peninsula/Aleutian Islands	201	95	137	452	32	21	148	123	21	0
(S) Kvichak River drainage	626	411	596	856	124	598	254	475	511	205
(T) Nushagak, Wood River and Togiak	93	177	66	62	32	100	196	138	10	206
Southcentral Total	3,089	2,892	2,963	2,790	1,189	2,761	1,965	2,344	2,442	1,479
Arctic-Yukon-Kuskokwim										
(I) Upper Copper River drainage ^a	495	937	651	303	347	714	335	460	862	665
(U) Tanana River drainage	506	1,193	1,086	443	319	799	418	484	480	375
(V) Kuskokwim River/Kuskokwim Bay drainages	22	29	111	24	39	14	18	50	0	52
(W) Seward Peninsula/Norton Sound	0	0	0	0	0	0	0	0	0	0
(X) Northwest Alaska	0	63	12	0	125	21	11	16	108	0
(Y) Yukon River drainage	33	76	23	124	0	22	25	149	75	0
(Z) North Slope/Brooks Range	0	0	117	0	112	0	90	98	0	0
Arctic-Yukon-Kuskokwim Total	1,056	2,298	2,000	894	942	1,570	897	1,257	1,525	1,092
Alaska Total	4,145	5,190	4,963	3,684	2,131	4,331	2,862	3,601	3,967	2,571

^a Area estimates reflect present-day survey area boundaries. Totals may differ from those found in previously published reports due to area boundary changes that have occurred across study years.

Table 2.71.—Alaska sport lake trout harvest estimate **standard errors**, 2008–2017, by region and area.

Region/Area fished	Harvest estimate standard errors									
	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Southeast										
(A) Ketchikan	0	0	0	0	0	0	0	0	0	0
(B) Prince of Wales Island	0	0	0	0	0	0	0	0	0	0
(C) Kake, Petersburg, Wrangell, Stikine	0	0	0	0	0	0	0	0	0	0
(D) Sitka	0	0	0	0	0	0	0	0	0	0
(E) Juneau	0	0	0	0	0	0	0	0	0	0
(F1) Skagway	0	0	0	0	0	0	0	0	0	0
(F2) Haines	0	0	0	0	0	0	0	0	0	0
(G) Glacier Bay	0	0	0	0	0	0	0	0	0	0
(H) Yakutat	0	0	0	0	0	0	0	0	0	0
Southeast Total	0	0	0	0	0	0	0	0	0	0
Southcentral										
(J) North Gulf Coast/Prince William Sound ^a	0	52	0	0	0	0	0	0	0	0
(K) Knik Arm	177	71	49	0	34	0	12	20	0	0
(L) Anchorage	173	37	300	18	103	38	62	19	21	42
(M) Susitna River drainage ^a	235	295	221	478	132	157	158	268	263	124
(N) West Cook Inlet drainages ^a	0	0	0	17	6	11	0	16	0	0
(PF) Kenai Peninsula freshwater ^a	230	287	280	190	135	487	232	355	512	282
(PS) Cook Inlet saltwater	0	0	0	0	0	0	0	0	0	0
(Q) Kodiak	0	0	0	0	0	0	0	0	0	0
(R) Alaska Peninsula/Aleutian Islands	103	40	89	254	22	22	83	65	22	0
(S) Kvichak River drainage	227	296	190	227	50	382	103	225	484	101
(T) Nushagak, Wood River and Togiak	54	90	47	36	25	69	118	77	10	79
Southcentral Total	478	518	508	616	225	640	329	519	767	338
Arctic-Yukon-Kuskokwim										
(I) Upper Copper River drainage ^a	119	243	142	105	175	271	121	127	259	192
(U) Tanana River drainage	142	392	507	176	120	253	164	166	168	128
(V) Kuskokwim River/Kuskokwim Bay drainages	16	22	71	18	29	10	18	38	0	35
(W) Seward Peninsula/Norton Sound	0	0	0	0	0	0	0	0	0	0
(X) Northwest Alaska	0	47	12	0	72	21	11	16	104	0
(Y) Yukon River drainage	34	41	23	76	0	23	24	131	36	0
(Z) North Slope/Brooks Range	0	0	54	0	73	0	61	73	0	0
Arctic-Yukon-Kuskokwim Total	193	462	536	223	235	375	214	260	325	241
Alaska Total	519	681	729	655	319	738	389	591	834	424

^a Area estimates reflect present-day survey area boundaries. Totals may differ from those found in previously published reports due to area boundary changes that have occurred across study years.

Table 2.72.—Alaska sport lake trout catch estimates, 2008–2017, by region and area.

Region/Area fished	Catch estimates									
	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Southeast										
(A) Ketchikan	0	0	0	0	0	0	0	0	0	0
(B) Prince of Wales Island	0	0	0	0	0	0	0	0	0	0
(C) Kake, Petersburg, Wrangell, Stikine	0	0	0	0	0	0	0	0	0	0
(D) Sitka	0	0	0	0	0	0	0	0	0	0
(E) Juneau	0	0	0	0	0	0	0	0	0	0
(F1) Skagway	0	0	0	0	0	0	0	0	0	0
(F2) Haines	0	0	0	0	0	0	0	0	0	0
(G) Glacier Bay	0	0	0	0	0	0	0	0	0	0
(H) Yakutat	0	0	0	0	0	0	0	0	0	0
Southeast Total	0	0	0	0	0	0	0	0	0	0
Southcentral										
(J) North Gulf Coast/Prince William Sound ^a	0	52	101	0	0	0	13	79	0	0
(K) Knik Arm	712	210	712	199	288	115	23	20	122	136
(L) Anchorage	307	323	1,008	54	990	1,543	246	139	21	43
(M) Susitna River drainage ^a	5,267	6,934	7,717	3,836	2,988	7,353	3,037	5,680	3,796	1,524
(N) West Cook Inlet drainages ^a	22	192	352	412	12	307	71	63	92	310
(PF) Kenai Peninsula freshwater ^a	1,578	4,168	3,514	1,866	758	3,016	2,487	2,794	1,470	1,459
(PS) Cook Inlet saltwater	0	0	0	0	0	0	0	0	0	0
(Q) Kodiak	0	0	0	0	0	0	0	0	0	0
(R) Alaska Peninsula/Aleutian Islands	2,550	1,557	1,904	2,338	419	1,100	875	1,917	211	1,382
(S) Kvichak River drainage	2,524	1,756	4,933	4,807	1,121	3,039	2,721	3,708	2,865	2,224
(T) Nushagak, Wood River and Togiak	1,345	1,895	2,857	2,269	119	1,287	1,395	1,389	1,010	1,196
Southcentral Total	14,305	17,087	23,098	15,781	6,695	17,760	10,868	15,789	9,587	8,274
Arctic-Yukon-Kuskokwim										
(I) Upper Copper River drainage ^a	4,436	6,707	5,633	1,479	1,890	2,961	1,662	3,359	4,223	4,839
(U) Tanana River drainage	2,000	4,526	5,034	2,296	1,741	1,472	1,752	4,330	1,829	4,924
(V) Kuskokwim River/Kuskokwim Bay drainages	807	654	1,215	485	972	450	280	250	174	168
(W) Seward Peninsula/Norton Sound	0	0	0	0	0	0	0	0	0	0
(X) Northwest Alaska	0	117	12	0	205	321	132	65	662	0
(Y) Yukon River drainage	58	281	23	201	0	339	25	661	238	0
(Z) North Slope/Brooks Range	21	67	246	0	223	221	481	971	528	0
Arctic-Yukon-Kuskokwim Total	7,322	12,352	12,163	4,461	5,031	5,764	4,332	9,636	7,654	9,931
Alaska Total	21,627	29,439	35,261	20,242	11,726	23,524	15,200	25,425	17,241	18,205

^a Area estimates reflect present-day survey area boundaries. Totals may differ from those found in previously published reports due to area boundary changes that have occurred across study years.

Table 2.73.—Alaska sport lake trout catch estimate **standard errors**, 2008–2017, by region and area.

Region/Area fished	Catch estimate standard errors									
	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Southeast										
(A) Ketchikan	0	0	0	0	0	0	0	0	0	0
(B) Prince of Wales Island	0	0	0	0	0	0	0	0	0	0
(C) Kake, Petersburg, Wrangell, Stikine	0	0	0	0	0	0	0	0	0	0
(D) Sitka	0	0	0	0	0	0	0	0	0	0
(E) Juneau	0	0	0	0	0	0	0	0	0	0
(F1) Skagway	0	0	0	0	0	0	0	0	0	0
(F2) Haines	0	0	0	0	0	0	0	0	0	0
(G) Glacier Bay	0	0	0	0	0	0	0	0	0	0
(H) Yakutat	0	0	0	0	0	0	0	0	0	0
Southeast Total	0	0	0	0	0	0	0	0	0	0
Southcentral										
(J) North Gulf Coast/Prince William Sound ^a	0	52	100	0	0	0	13	63	0	0
(K) Knik Arm	372	128	319	167	145	88	16	20	89	96
(L) Anchorage	208	187	739	34	871	1,112	248	126	21	42
(M) Susitna River drainage ^a	1,321	1,743	2,082	1,232	963	3,002	778	1,658	1,335	423
(N) West Cook Inlet drainages ^a	17	140	209	290	9	257	73	38	61	185
(PF) Kenai Peninsula freshwater ^a	451	1,380	938	768	225	977	861	1,329	611	475
(PS) Cook Inlet saltwater	0	0	0	0	0	0	0	0	0	0
(Q) Kodiak	0	0	0	0	0	0	0	0	0	0
(R) Alaska Peninsula/Aleutian Islands	791	414	582	1,037	242	664	422	691	107	738
(S) Kvichak River drainage	501	524	912	1,046	313	883	796	1,128	875	579
(T) Nushagak, Wood River and Togiak	564	729	1,334	816	65	632	531	635	425	599
Southcentral Total	1,841	2,454	2,928	2,240	1,424	3,710	1,548	2,619	1,781	1,316
Arctic-Yukon-Kuskokwim										
(I) Upper Copper River drainage ^a	1,304	1,470	1,264	582	491	1,076	614	935	1,095	2,124
(U) Tanana River drainage	697	985	1,697	621	505	393	568	1,373	550	2,917
(V) Kuskokwim River/Kuskokwim Bay drainages	411	291	576	184	440	157	144	206	91	101
(W) Seward Peninsula/Norton Sound	0	0	0	0	0	0	0	0	0	0
(X) Northwest Alaska	0	92	12	0	112	308	137	64	557	0
(Y) Yukon River drainage	41	140	23	131	0	277	24	377	190	0
(Z) North Slope/Brooks Range	12	69	89	0	108	223	290	743	282	0
Arctic-Yukon-Kuskokwim Total	1,541	1,807	2,228	887	850	1,253	914	1,861	1,397	3,708
Alaska Total	2,398	3,034	3,704	2,424	1,659	3,914	1,797	3,212	2,275	3,898

^a Area estimates reflect present-day survey area boundaries. Totals may differ from those found in previously published reports due to area boundary changes that have occurred across study years.

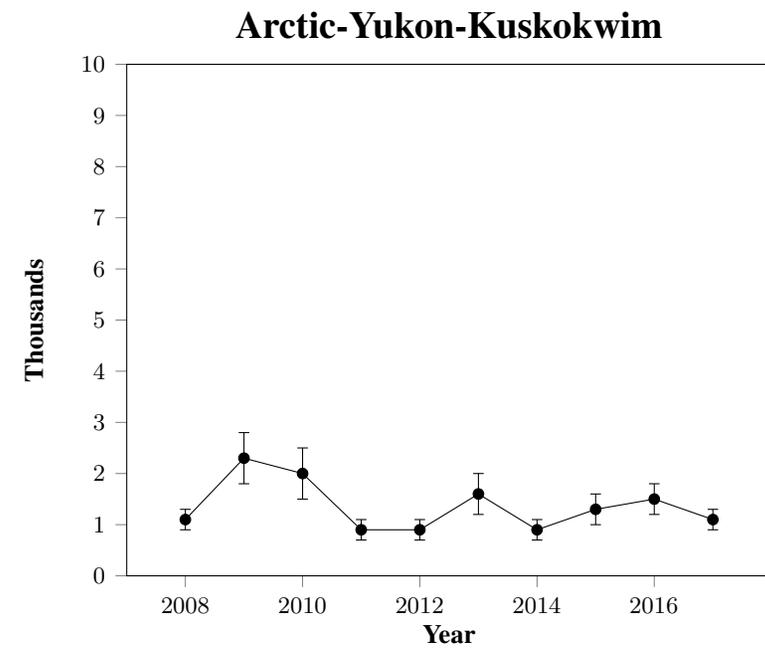
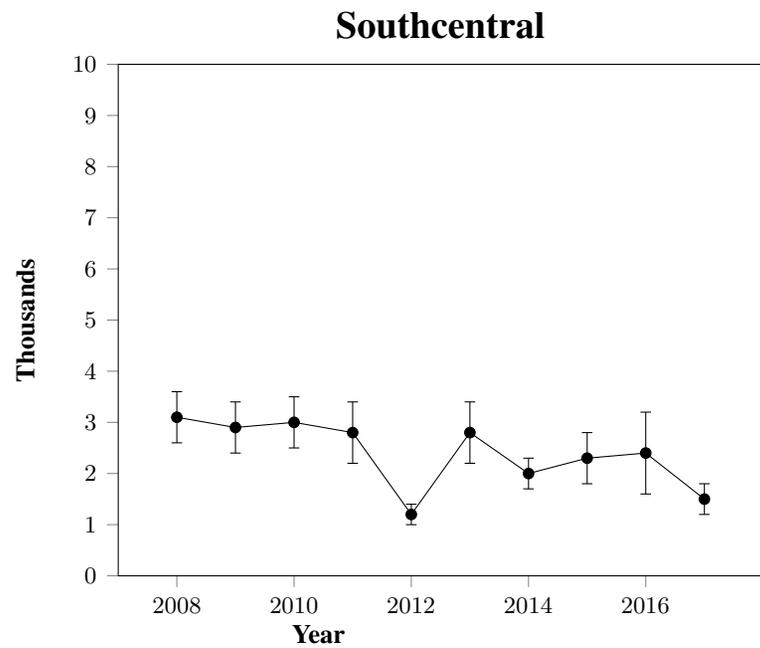
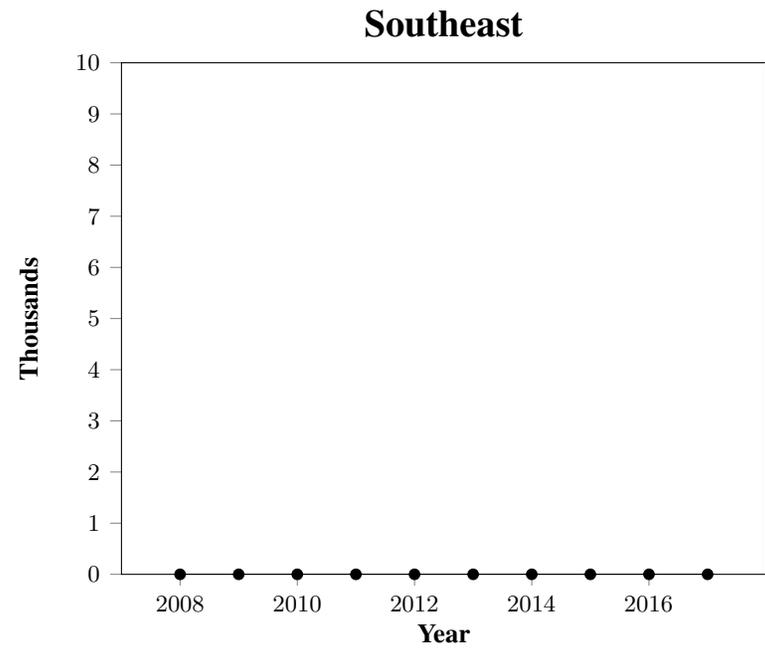
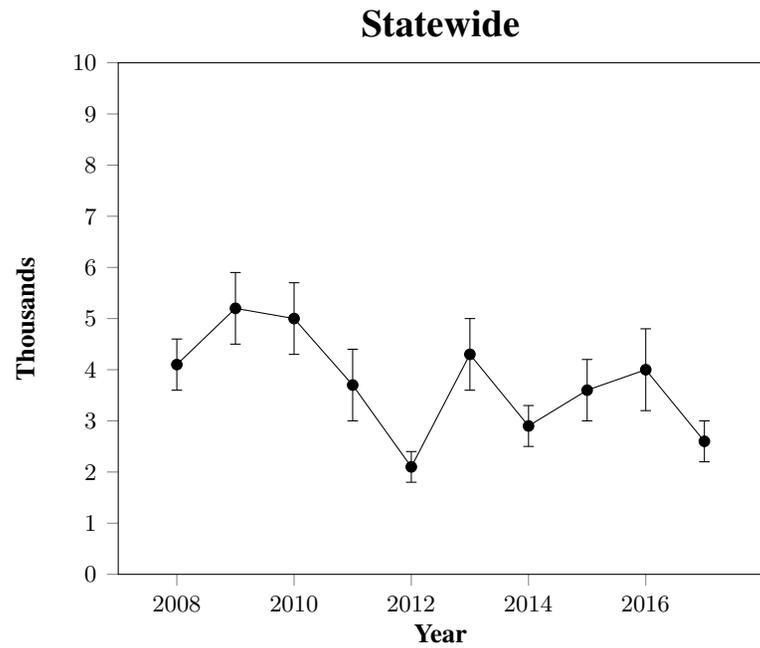


Figure 2.21.—Alaska sport lake trout harvest estimates and standard errors, 2008–2017, by region.

Note: Trends in harvest estimates can reflect changes in the abundance of fish, changes in angler effort, fishery management actions that reduce or liberalize harvest, or a combination of these and other factors.

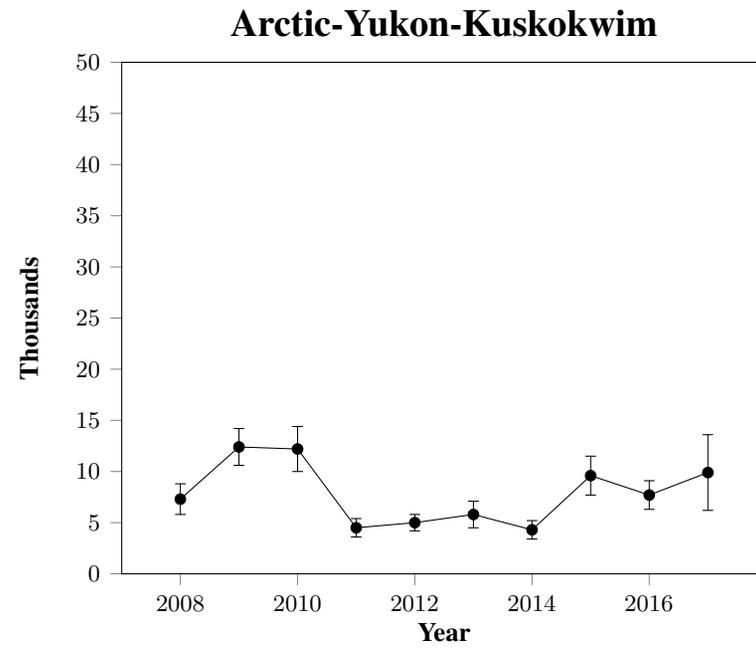
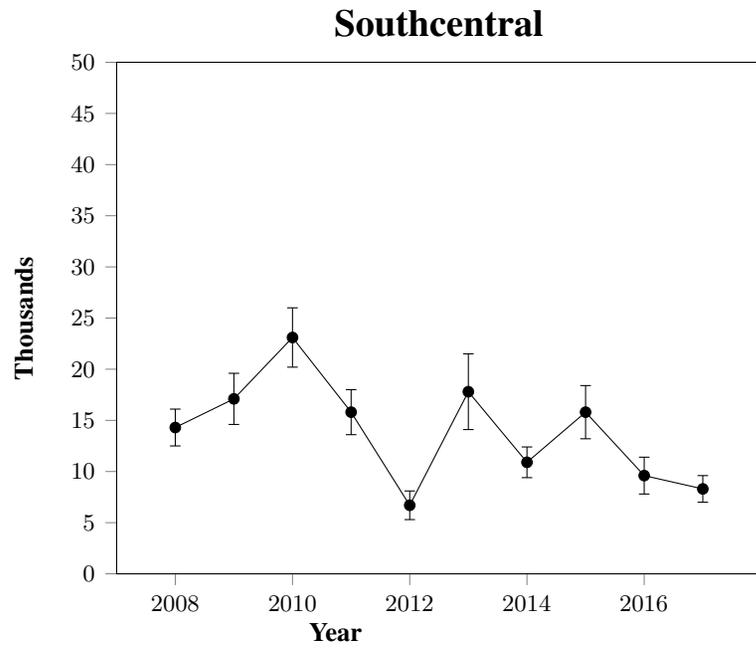
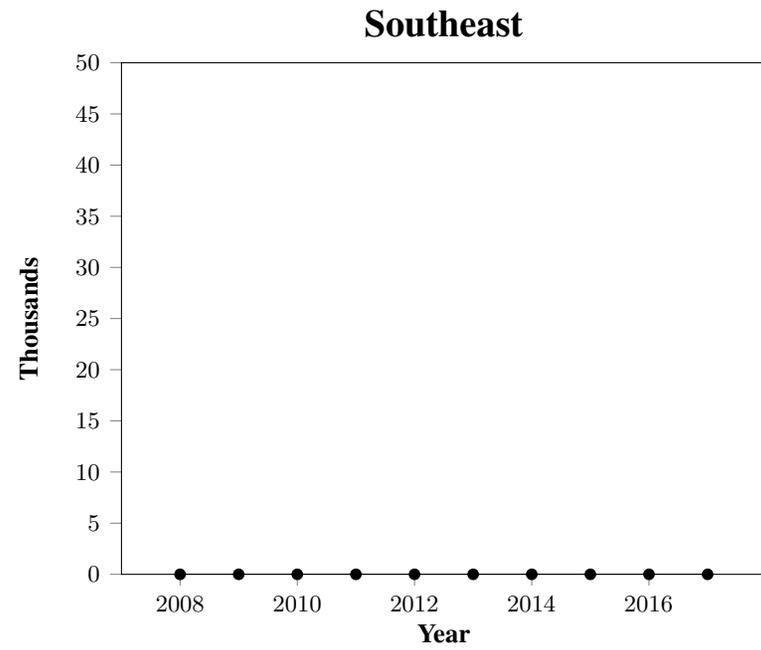
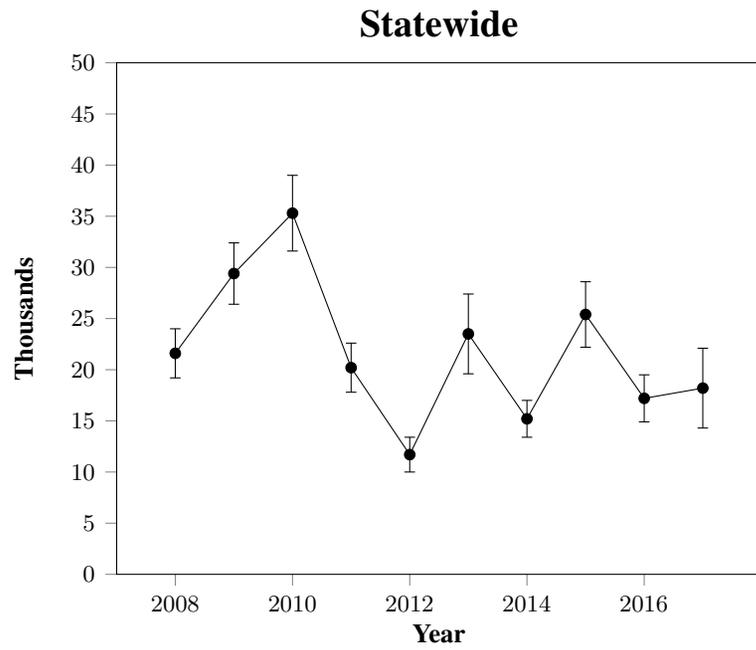


Figure 2.22.—Alaska sport lake trout catch estimates and standard errors, 2008–2017, by region.

Note: Trends in catch estimates can reflect changes in the abundance of fish, changes in angler effort, fishery management actions that reduce or liberalize harvest, or a combination of these and other factors.

Table 2.74.—Alaska sport Dolly Varden/Arctic char harvest estimates, 2008–2017, by region and area.

Region/Area fished	Harvest estimates									
	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Southeast										
(A) Ketchikan	742	1,203	931	62	155	2,054	1,233	902	147	44
(B) Prince of Wales Island	1,985	1,069	656	1,283	1,318	1,014	675	782	923	558
(C) Kake, Petersburg, Wrangell, Stikine	1,273	1,715	1,422	946	1,153	1,012	354	1,478	583	423
(D) Sitka	1,726	670	543	291	937	896	305	709	648	439
(E) Juneau	3,228	3,644	2,174	1,398	1,435	2,543	2,486	2,894	1,663	1,199
(F1) Skagway	164	135	126	9	9	155	110	11	408	34
(F2) Haines	3,385	1,884	2,128	1,678	2,184	1,781	4,442	2,689	1,215	1,463
(G) Glacier Bay	1,748	777	262	569	451	1,220	1,056	567	411	941
(H) Yakutat	495	342	345	453	1,102	184	614	727	329	190
Southeast Total	14,746	11,439	8,587	6,689	8,744	10,859	11,275	10,759	6,327	5,291
Southcentral										
(J) North Gulf Coast/Prince William Sound ^a	1,716	1,898	2,313	1,466	1,340	1,343	1,853	3,441	471	427
(K) Knik Arm	1,935	1,853	1,612	1,593	928	1,028	2,751	1,078	1,161	901
(L) Anchorage	821	1,127	431	772	1,088	442	814	249	784	68
(M) Susitna River drainage ^a	498	542	632	312	261	889	346	865	237	179
(N) West Cook Inlet drainages ^a	645	153	326	105	283	347	256	144	94	117
(PF) Kenai Peninsula freshwater ^a	7,225	5,908	5,442	3,540	4,759	7,549	6,582	7,739	4,821	3,518
(PS) Cook Inlet saltwater	1,385	1,841	761	420	1,337	1,419	414	2,556	750	827
(Q) Kodiak	8,116	3,246	5,157	3,534	2,416	3,710	5,164	5,070	3,343	1,536
(R) Alaska Peninsula/Aleutian Islands	2,052	3,354	2,055	2,679	752	1,256	877	1,741	341	899
(S) Kvichak River drainage	331	108	212	605	54	115	554	222	291	46
(T) Nushagak, Wood River and Togiak	1,300	2,051	1,671	1,117	1,134	1,471	1,121	1,811	1,249	740
Southcentral Total	26,024	22,081	20,612	16,143	14,352	19,569	20,732	24,916	13,542	9,258
Arctic-Yukon-Kuskokwim										
(I) Upper Copper River drainage ^a	397	943	682	231	726	1,036	148	1,012	1,545	270
(U) Tanana River drainage	2,990	2,733	1,965	1,189	539	835	1,015	610	3,038	942
(V) Kuskokwim River/Kuskokwim Bay drainages	2,038	2,176	1,565	1,231	2,301	2,032	2,309	1,247	1,038	858
(W) Seward Peninsula/Norton Sound	3,319	3,456	1,835	4,041	252	1,184	154	412	2,016	1,314
(X) Northwest Alaska	852	1,373	491	865	781	1,074	216	221	1,081	245
(Y) Yukon River drainage	36	381	346	11	16	319	167	20	84	172
(Z) North Slope/Brooks Range	352	919	223	339	594	279	578	286	599	158
Arctic-Yukon-Kuskokwim Total	9,984	11,981	7,107	7,907	5,209	6,759	4,587	3,808	9,401	3,959
Alaska Total	50,754	45,501	36,306	30,739	28,305	37,187	36,594	39,483	29,270	18,508

^a Area estimates reflect present-day survey area boundaries. Totals may differ from those found in previously published reports due to area boundary changes that have occurred across study years.

Table 2.75.—Alaska sport Dolly Varden/Arctic char harvest estimate **standard errors**, 2008–2017, by region and area.

Region/Area fished	Harvest estimate standard errors									
	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Southeast										
(A) Ketchikan	301	440	354	28	107	1,421	1,160	716	97	44
(B) Prince of Wales Island	400	313	265	461	343	554	195	278	311	352
(C) Kake, Petersburg, Wrangell, Stikine	500	398	467	336	299	377	172	823	218	134
(D) Sitka	628	188	190	121	387	325	113	221	475	171
(E) Juneau	517	738	419	325	328	689	492	967	535	384
(F1) Skagway	99	68	52	9	9	89	57	11	251	33
(F2) Haines	785	416	420	430	455	367	1,286	488	349	337
(G) Glacier Bay	407	281	139	225	168	581	346	245	177	369
(H) Yakutat	156	92	145	168	356	88	207	213	152	79
Southeast Total	1,437	1,145	883	807	944	1,811	1,874	1,585	946	768
Southcentral										
(J) North Gulf Coast/Prince William Sound ^a	406	485	691	408	338	349	539	1,437	135	232
(K) Knik Arm	383	400	387	723	288	534	821	468	374	299
(L) Anchorage	219	329	122	265	365	122	525	88	335	52
(M) Susitna River drainage ^a	131	232	210	97	95	462	114	271	107	77
(N) West Cook Inlet drainages ^a	226	102	173	45	117	138	181	62	46	86
(PF) Kenai Peninsula freshwater ^a	736	649	696	614	1,670	935	668	2,038	797	455
(PS) Cook Inlet saltwater	472	694	211	128	819	378	155	1,425	232	230
(Q) Kodiak	1,242	673	884	739	523	641	1,274	1,124	867	433
(R) Alaska Peninsula/Aleutian Islands	618	1,030	521	746	283	398	242	554	135	347
(S) Kvichak River drainage	174	48	81	334	32	71	308	96	122	34
(T) Nushagak, Wood River and Togiak	335	469	499	211	411	363	321	552	436	250
Southcentral Total	1,831	1,704	1,591	1,517	2,091	1,563	1,894	3,233	1,429	899
Arctic-Yukon-Kuskokwim										
(I) Upper Copper River drainage ^a	181	446	265	124	371	564	148	484	577	143
(U) Tanana River drainage	895	753	503	333	166	232	388	248	900	394
(V) Kuskokwim River/Kuskokwim Bay drainages	463	441	350	257	479	483	560	338	257	219
(W) Seward Peninsula/Norton Sound	1,045	1,173	641	2,324	112	664	73	236	919	523
(X) Northwest Alaska	296	428	244	383	350	405	142	131	567	161
(Y) Yukon River drainage	37	229	158	11	17	152	80	20	71	151
(Z) North Slope/Brooks Range	146	366	87	136	217	134	212	152	234	78
Arctic-Yukon-Kuskokwim Total	1,484	1,684	959	2,397	765	1,100	736	706	1,546	756
Alaska Total	2,712	2,621	2,057	2,982	2,359	2,564	2,739	3,662	2,337	1,366

^a Area estimates reflect present-day survey area boundaries. Totals may differ from those found in previously published reports due to area boundary changes that have occurred across study years.

Table 2.76.—Alaska sport Dolly Varden/Arctic char catch estimates, 2008–2017, by region and area.

Region/Area fished	Catch estimates									
	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Southeast										
(A) Ketchikan	3,290	7,953	10,334	1,521	2,921	6,883	3,542	2,877	940	1,275
(B) Prince of Wales Island	16,514	7,259	6,286	6,883	18,074	6,064	13,729	12,387	4,412	2,878
(C) Kake, Petersburg, Wrangell, Stikine	4,735	11,738	5,829	4,457	3,685	4,008	5,466	9,027	7,784	6,416
(D) Sitka	11,533	11,229	5,990	3,457	6,937	10,101	6,945	8,710	6,188	3,541
(E) Juneau	41,902	34,878	25,176	13,310	12,629	13,889	22,118	22,841	11,705	9,160
(F1) Skagway	286	510	378	157	1,260	518	981	122	2,239	358
(F2) Haines	11,947	6,053	5,808	5,847	8,383	7,334	16,673	10,163	5,257	5,049
(G) Glacier Bay	8,283	4,288	6,139	4,272	4,761	3,687	4,632	3,860	5,382	2,173
(H) Yakutat	5,219	2,992	6,171	3,857	9,229	4,294	8,769	6,416	4,855	2,940
Southeast Total	103,709	86,900	72,111	43,761	67,879	56,778	82,855	76,403	48,762	33,790
Southcentral										
(J) North Gulf Coast/Prince William Sound ^a	9,513	8,773	8,620	6,557	4,665	8,868	10,846	11,403	8,006	3,200
(K) Knik Arm	12,101	8,520	5,004	5,868	3,944	3,746	5,554	6,282	5,885	2,938
(L) Anchorage	5,742	4,548	3,140	5,279	2,471	4,771	7,051	3,784	6,386	1,486
(M) Susitna River drainage ^a	11,169	9,390	10,655	9,423	6,868	12,598	11,489	26,982	9,130	5,266
(N) West Cook Inlet drainages ^a	4,304	2,840	3,740	2,646	5,584	4,640	6,475	3,261	3,525	3,019
(PF) Kenai Peninsula freshwater ^a	237,546	231,767	154,412	137,124	157,129	173,718	207,951	234,405	194,097	143,466
(PS) Cook Inlet saltwater	2,915	3,666	2,983	833	3,108	3,889	1,401	4,640	1,395	2,015
(Q) Kodiak	60,270	27,453	40,578	37,219	16,672	34,635	45,879	40,989	29,519	11,836
(R) Alaska Peninsula/Aleutian Islands	39,395	47,050	46,638	36,816	34,319	40,976	52,946	40,303	31,824	36,254
(S) Kvichak River drainage	10,603	12,922	8,585	8,943	14,794	17,858	22,822	22,430	21,409	16,239
(T) Nushagak, Wood River and Togiak	44,156	35,516	32,945	30,554	21,880	33,015	34,171	53,892	35,742	25,222
Southcentral Total	437,714	392,445	317,300	281,262	271,434	338,714	406,585	448,371	346,918	250,941
Arctic-Yukon-Kuskokwim										
(I) Upper Copper River drainage ^a	1,270	3,211	1,089	1,010	1,685	2,304	493	3,163	2,510	2,352
(U) Tanana River drainage	7,172	6,161	5,800	4,806	3,731	5,050	3,249	4,937	8,880	1,971
(V) Kuskokwim River/Kuskokwim Bay drainages	83,835	57,625	55,241	64,818	79,406	90,132	83,114	66,036	62,076	77,055
(W) Seward Peninsula/Norton Sound	14,445	16,076	8,160	7,328	5,480	2,107	644	2,707	5,746	3,148
(X) Northwest Alaska	6,640	6,226	1,675	3,266	1,437	3,927	904	719	2,319	1,318
(Y) Yukon River drainage	1,332	1,681	2,700	272	673	1,474	4,305	760	1,782	1,287
(Z) North Slope/Brooks Range	4,426	3,165	3,010	6,689	4,973	2,809	4,974	2,410	3,490	2,270
Arctic-Yukon-Kuskokwim Total	119,120	94,145	77,675	88,189	97,385	107,803	97,683	80,732	86,803	89,401
Alaska Total	660,543	573,490	467,086	413,212	436,698	503,295	587,123	605,506	482,483	374,132

^a Area estimates reflect present-day survey area boundaries. Totals may differ from those found in previously published reports due to area boundary changes that have occurred across study years.

Table 2.77.—Alaska sport Dolly Varden/Arctic char catch estimate **standard errors**, 2008–2017, by region and area.

Region/Area fished	Catch estimate standard errors									
	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Southeast										
(A) Ketchikan	855	1,700	3,894	691	1,021	3,301	2,925	1,065	342	689
(B) Prince of Wales Island	2,767	1,207	1,148	1,362	4,401	2,038	4,677	4,296	1,098	785
(C) Kake, Petersburg, Wrangell, Stikine	1,583	2,330	1,395	942	725	1,021	1,505	2,566	2,460	2,537
(D) Sitka	2,566	2,995	1,547	962	1,507	2,366	1,573	2,026	1,678	1,026
(E) Juneau	7,592	7,690	4,268	2,518	2,669	2,347	5,343	7,895	2,345	1,846
(F1) Skagway	115	185	158	87	1,061	335	457	72	1,691	189
(F2) Haines	3,806	1,137	1,069	1,914	1,524	1,493	4,178	2,006	1,290	1,062
(G) Glacier Bay	1,985	860	2,077	1,387	1,215	1,078	1,023	1,343	1,806	659
(H) Yakutat	1,067	843	2,069	879	2,495	1,165	2,149	1,179	991	816
Southeast Total	9,971	9,094	6,895	3,954	6,313	5,604	9,368	10,055	4,917	3,828
Southcentral										
(J) North Gulf Coast/Prince William Sound ^a	1,859	2,021	1,530	1,472	857	2,226	2,191	2,635	2,909	1,236
(K) Knik Arm	3,892	2,084	879	1,926	1,205	908	1,384	2,174	1,404	855
(L) Anchorage	1,075	917	812	1,558	564	1,173	2,209	1,158	2,605	747
(M) Susitna River drainage ^a	1,898	1,746	1,495	1,958	1,478	2,891	2,559	10,505	1,980	1,700
(N) West Cook Inlet drainages ^a	966	693	904	646	1,334	1,176	1,781	878	1,448	1,092
(PF) Kenai Peninsula freshwater ^a	19,050	17,309	10,157	14,254	19,130	12,021	14,677	23,134	14,760	17,366
(PS) Cook Inlet saltwater	912	1,335	674	221	1,667	1,130	421	1,796	336	477
(Q) Kodiak	7,895	5,045	5,277	6,789	2,771	6,538	9,541	7,205	5,570	2,289
(R) Alaska Peninsula/Aleutian Islands	4,710	5,422	6,146	4,493	7,927	7,160	7,315	6,227	6,230	10,528
(S) Kvichak River drainage	1,609	2,542	1,699	1,584	3,171	4,258	4,897	5,201	4,741	5,303
(T) Nushagak, Wood River and Togiak	6,087	5,022	4,915	4,331	4,905	6,457	6,282	9,645	5,898	4,638
Southcentral Total	22,803	20,171	13,902	17,530	21,622	18,431	21,076	29,236	19,478	21,914
Arctic-Yukon-Kuskokwim										
(I) Upper Copper River drainage ^a	582	1,245	357	335	718	948	264	1,183	779	950
(U) Tanana River drainage	1,760	1,214	1,218	981	1,778	1,254	652	1,290	2,916	523
(V) Kuskokwim River/Kuskokwim Bay drainages	12,888	8,614	9,225	12,539	11,080	14,491	11,905	10,911	10,644	13,033
(W) Seward Peninsula/Norton Sound	3,157	3,443	2,435	2,628	2,128	860	308	1,838	2,366	894
(X) Northwest Alaska	2,064	2,048	555	1,403	594	1,796	457	324	1,218	769
(Y) Yukon River drainage	899	742	871	134	320	664	1,836	583	773	669
(Z) North Slope/Brooks Range	2,633	937	1,259	3,117	2,013	1,091	1,691	877	1,247	890
Arctic-Yukon-Kuskokwim Total	13,824	9,568	9,545	13,061	11,685	14,736	12,212	11,336	11,310	13,268
Alaska Total	28,651	23,997	18,270	22,208	25,426	23,647	25,419	32,732	23,273	26,206

^a Area estimates reflect present-day survey area boundaries. Totals may differ from those found in previously published reports due to area boundary changes that have occurred across study years.

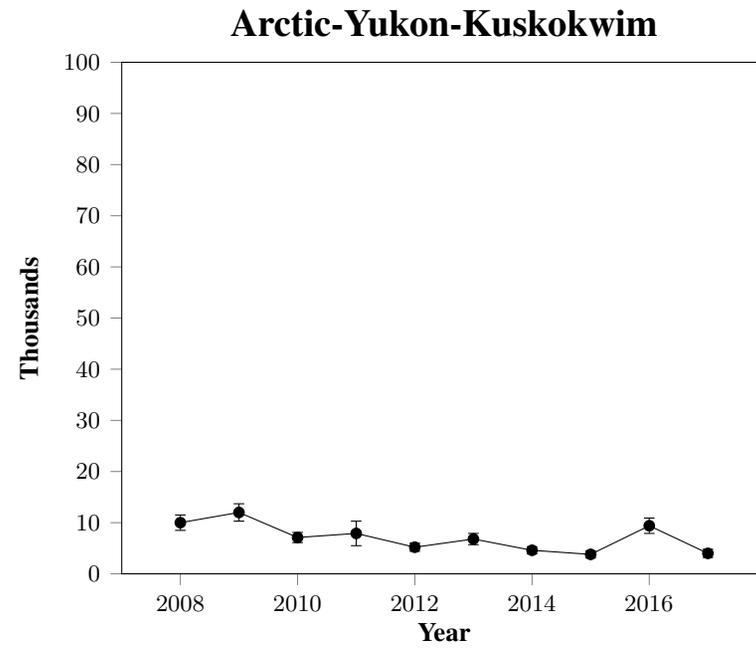
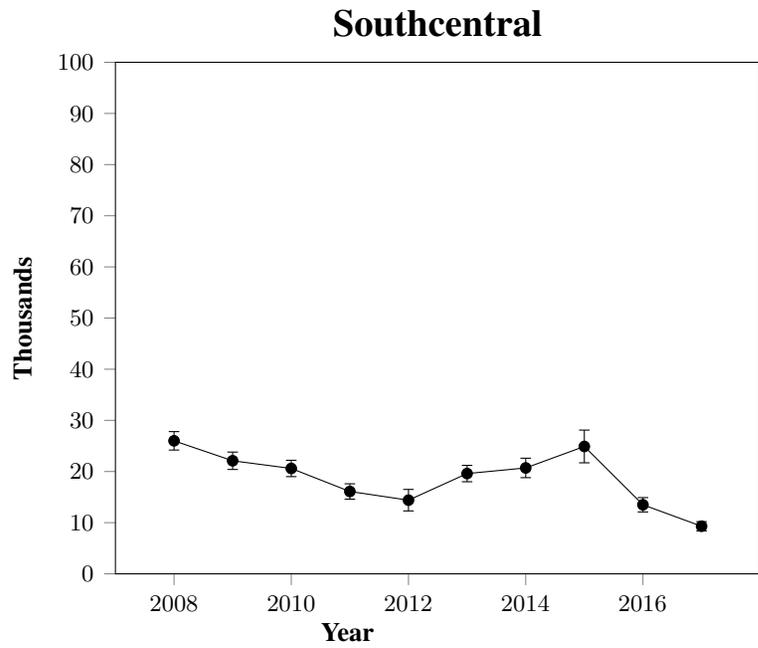
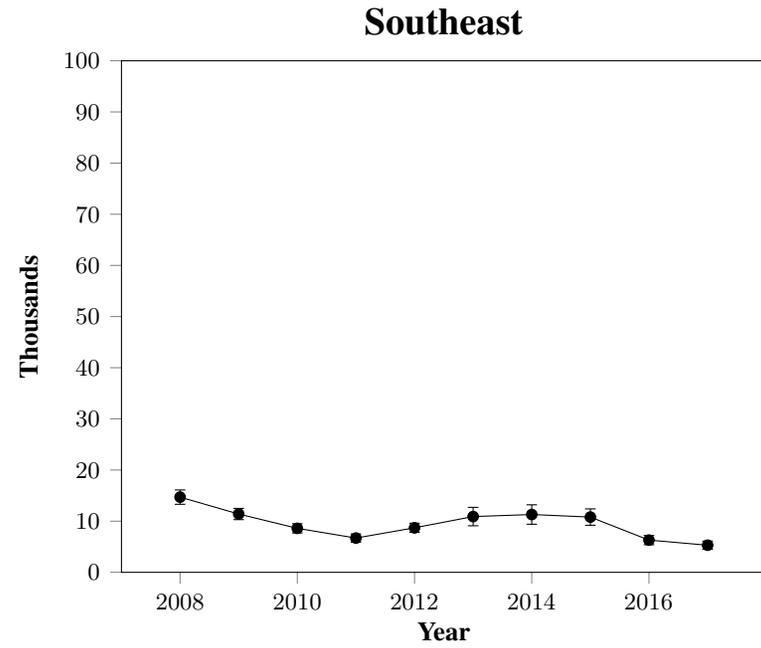
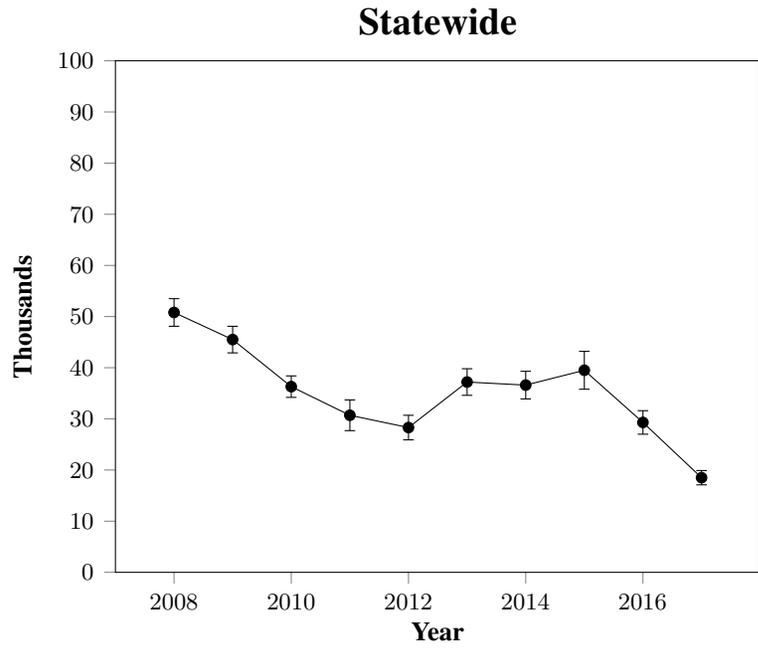


Figure 2.23.—Alaska sport Dolly Varden/Arctic char harvest estimates and standard errors, 2008–2017, by region.

Note: Trends in harvest estimates can reflect changes in the abundance of fish, changes in angler effort, fishery management actions that reduce or liberalize harvest, or a combination of these and other factors.

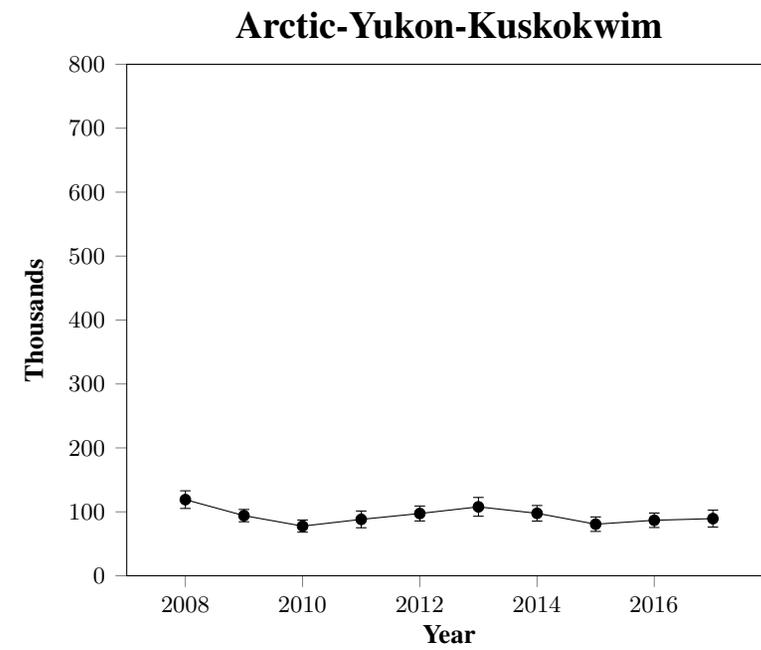
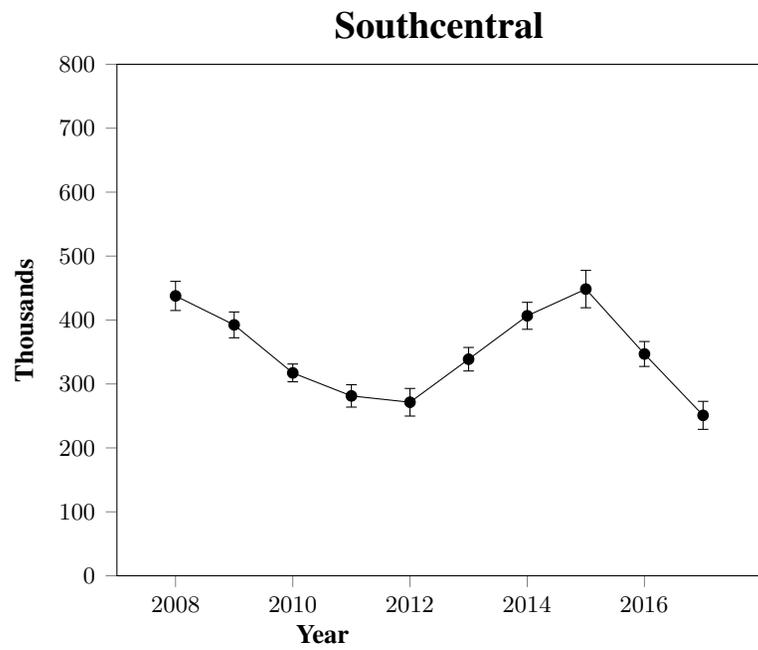
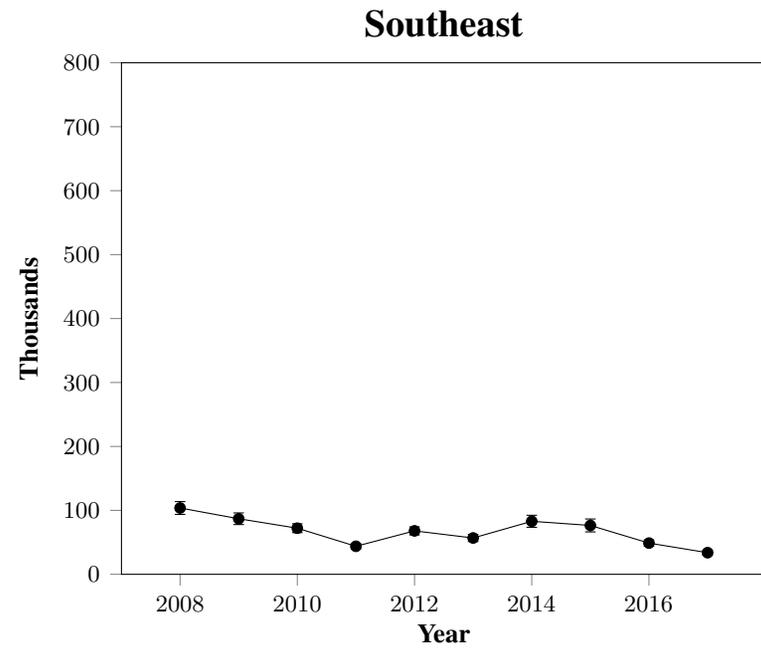
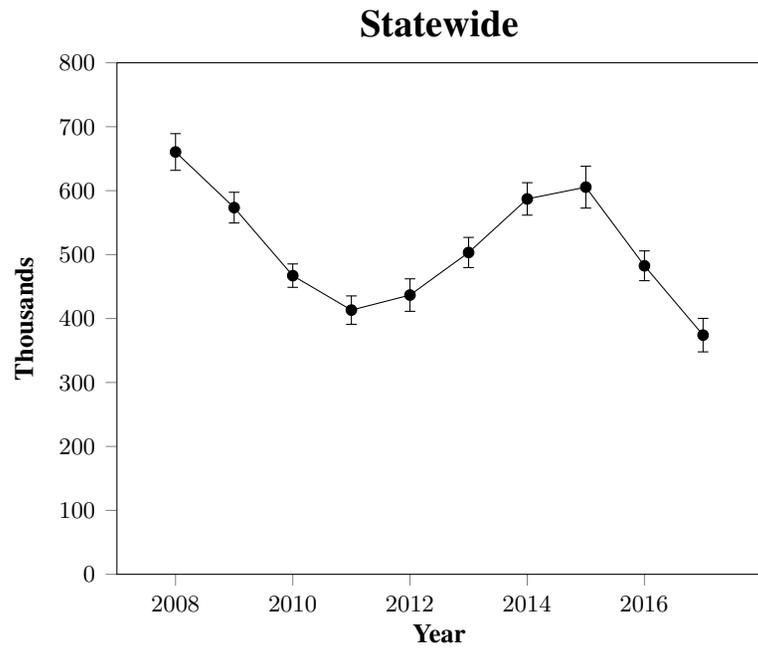


Figure 2.24.—Alaska sport Dolly Varden/Arctic char catch estimates and standard errors, 2008–2017, by region.

Note: Trends in catch estimates can reflect changes in the abundance of fish, changes in angler effort, fishery management actions that reduce or liberalize harvest, or a combination of these and other factors.

Table 2.78.—Alaska sport Arctic grayling harvest estimates, 2008–2017, by region and area.

Region/Area fished	Harvest estimates									
	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Southeast										
(A) Ketchikan	0	0	0	0	0	0	0	0	0	0
(B) Prince of Wales Island	0	0	0	0	0	0	0	0	0	0
(C) Kake, Petersburg, Wrangell, Stikine	0	0	0	0	0	0	0	0	0	0
(D) Sitka	0	18	0	0	0	0	121	0	0	0
(E) Juneau	0	0	0	0	0	0	0	0	0	0
(F1) Skagway	0	0	0	0	0	0	0	0	0	0
(F2) Haines	0	0	0	0	0	0	0	0	0	0
(G) Glacier Bay	0	0	0	0	0	0	0	0	0	0
(H) Yakutat	0	0	0	0	0	0	0	0	0	0
Southeast Total	0	18	0	0	0	0	121	0	0	0
Southcentral										
(J) North Gulf Coast/Prince William Sound ^a	28	0	26	466	50	115	219	0	86	176
(K) Knik Arm	744	1,455	687	439	277	180	332	63	295	357
(L) Anchorage	444	194	123	0	120	124	60	205	212	136
(M) Susitna River drainage ^a	2,339	1,989	3,121	1,599	1,705	2,494	1,266	2,522	1,600	738
(N) West Cook Inlet drainages ^a	56	0	0	0	0	187	0	0	0	0
(PF) Kenai Peninsula freshwater ^a	804	896	372	732	652	1,177	597	603	563	371
(PS) Cook Inlet saltwater	0	0	0	0	0	0	0	0	0	0
(Q) Kodiak	0	0	0	0	0	0	0	0	0	0
(R) Alaska Peninsula/Aleutian Islands	73	35	14	0	0	19	98	430	16	54
(S) Kvichak River drainage	818	462	749	302	84	181	516	407	757	477
(T) Nushagak, Wood River and Togiak	945	632	648	697	725	440	228	406	54	259
Southcentral Total	6,251	5,663	5,740	4,235	3,613	4,917	3,316	4,636	3,583	2,568
Arctic-Yukon-Kuskokwim										
(I) Upper Copper River drainage ^a	2,788	3,264	2,992	654	2,796	2,266	1,486	3,245	1,702	1,825
(U) Tanana River drainage	8,124	8,138	8,295	5,179	4,971	5,952	8,010	5,591	6,680	4,449
(V) Kuskokwim River/Kuskokwim Bay drainages	713	1,307	530	713	1,096	1,002	409	475	197	242
(W) Seward Peninsula/Norton Sound	961	1,169	232	1,398	520	500	0	154	1,215	366
(X) Northwest Alaska	293	439	366	486	626	563	237	664	496	24
(Y) Yukon River drainage	2,531	2,773	1,778	907	1,433	4,062	2,498	1,613	1,005	2,639
(Z) North Slope/Brooks Range	923	2,996	608	320	892	939	416	314	457	343
Arctic-Yukon-Kuskokwim Total	16,333	20,086	14,801	9,657	12,334	15,284	13,056	12,056	11,752	9,888
Alaska Total	22,584	25,767	20,541	13,892	15,947	20,201	16,493	16,692	15,335	12,456

^a Area estimates reflect present-day survey area boundaries. Totals may differ from those found in previously published reports due to area boundary changes that have occurred across study years.

Table 2.79.—Alaska sport Arctic grayling harvest estimate **standard errors**, 2008–2017, by region and area.

Region/Area fished	Harvest estimate standard errors									
	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Southeast										
(A) Ketchikan	0	0	0	0	0	0	0	0	0	0
(B) Prince of Wales Island	0	0	0	0	0	0	0	0	0	0
(C) Kake, Petersburg, Wrangell, Stikine	0	0	0	0	0	0	0	0	0	0
(D) Sitka	0	19	0	0	0	0	123	0	0	0
(E) Juneau	0	0	0	0	0	0	0	0	0	0
(F1) Skagway	0	0	0	0	0	0	0	0	0	0
(F2) Haines	0	0	0	0	0	0	0	0	0	0
(G) Glacier Bay	0	0	0	0	0	0	0	0	0	0
(H) Yakutat	0	0	0	0	0	0	0	0	0	0
Southeast Total	0	19	0	0	0	0	123	0	0	0
Southcentral										
(J) North Gulf Coast/Prince William Sound ^a	29	0	18	330	39	87	157	0	63	129
(K) Knik Arm	277	767	298	198	125	72	147	62	142	168
(L) Anchorage	172	75	85	0	53	89	35	202	144	137
(M) Susitna River drainage ^a	594	451	931	508	454	518	311	635	445	296
(N) West Cook Inlet drainages ^a	57	0	0	0	0	194	0	0	0	0
(PF) Kenai Peninsula freshwater ^a	237	220	99	285	221	576	178	282	206	215
(PS) Cook Inlet saltwater	0	0	0	0	0	0	0	0	0	0
(Q) Kodiak	0	0	0	0	0	0	0	0	0	0
(R) Alaska Peninsula/Aleutian Islands	43	35	13	0	0	18	63	226	16	42
(S) Kvichak River drainage	330	243	230	141	60	79	414	119	498	210
(T) Nushagak, Wood River and Togiak	297	248	225	174	227	193	86	183	40	110
Southcentral Total	835	998	1,052	731	581	827	595	797	723	496
Arctic-Yukon-Kuskokwim										
(I) Upper Copper River drainage ^a	545	719	505	170	609	872	415	894	428	517
(U) Tanana River drainage	1,181	1,707	1,274	976	719	1,058	2,618	873	1,122	779
(V) Kuskokwim River/Kuskokwim Bay drainages	172	329	299	223	542	421	166	257	88	223
(W) Seward Peninsula/Norton Sound	304	432	98	1,023	174	226	0	102	676	193
(X) Northwest Alaska	117	165	152	201	245	219	106	301	172	25
(Y) Yukon River drainage	801	829	347	249	462	1,890	1,251	460	278	902
(Z) North Slope/Brooks Range	300	1,052	235	139	253	498	138	168	178	178
Arctic-Yukon-Kuskokwim Total	1,570	2,391	1,459	1,480	1,280	2,506	2,941	1,407	1,417	1,343
Alaska Total	1,780	2,566	1,787	1,661	1,398	2,609	2,962	1,635	1,612	1,446

^a Area estimates reflect present-day survey area boundaries. Totals may differ from those found in previously published reports due to area boundary changes that have occurred across study years.

Table 2.80.—Alaska sport Arctic grayling catch estimates, 2008–2017, by region and area.

Region/Area fished	Catch estimates									
	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Southeast										
(A) Ketchikan	16	0	449	0	0	0	0	0	0	0
(B) Prince of Wales Island	0	0	0	0	0	0	0	0	0	0
(C) Kake, Petersburg, Wrangell, Stikine	0	0	0	0	0	0	0	0	0	0
(D) Sitka	14	206	0	0	154	0	182	0	0	0
(E) Juneau	16	87	0	0	0	0	0	0	0	0
(F1) Skagway	0	0	0	0	0	0	0	0	0	0
(F2) Haines	0	35	0	0	0	0	505	0	0	0
(G) Glacier Bay	0	0	0	0	0	0	0	0	0	0
(H) Yakutat	0	0	0	0	0	0	0	0	0	0
Southeast Total	46	328	449	0	154	0	687	0	0	0
Southcentral										
(J) North Gulf Coast/Prince William Sound ^a	70	116	1,823	1,070	85	2,500	399	442	734	319
(K) Knik Arm	6,774	7,300	2,794	2,888	1,814	3,976	2,783	2,413	1,538	2,516
(L) Anchorage	3,409	1,124	599	367	2,105	2,796	1,982	1,453	849	2,227
(M) Susitna River drainage ^a	20,622	26,310	27,294	26,043	24,193	34,275	31,978	31,079	23,746	12,357
(N) West Cook Inlet drainages ^a	83	11	0	147	131	187	41	263	31	1,284
(PF) Kenai Peninsula freshwater ^a	11,230	9,040	6,354	4,726	5,766	9,855	6,539	4,934	4,288	6,011
(PS) Cook Inlet saltwater	0	0	0	0	0	0	0	0	0	0
(Q) Kodiak	0	0	0	0	0	0	0	0	0	0
(R) Alaska Peninsula/Aleutian Islands	4,360	6,197	6,157	4,654	3,433	7,527	5,678	7,283	3,819	4,899
(S) Kvichak River drainage	23,067	20,464	17,560	13,982	16,999	24,458	19,133	32,636	10,851	18,695
(T) Nushagak, Wood River and Togiak	32,932	24,298	18,754	17,297	16,193	23,425	14,946	34,841	8,353	20,833
Southcentral Total	102,547	94,860	81,335	71,174	70,719	108,999	83,479	115,344	54,209	69,141
Arctic-Yukon-Kuskokwim										
(I) Upper Copper River drainage ^a	41,388	70,068	44,585	15,945	23,031	21,275	17,776	19,263	39,010	29,451
(U) Tanana River drainage	116,971	146,563	122,892	87,411	91,019	148,797	109,152	108,078	91,319	99,450
(V) Kuskokwim River/Kuskokwim Bay drainages	35,486	35,693	27,870	29,418	30,625	42,005	15,971	21,952	11,501	15,029
(W) Seward Peninsula/Norton Sound	9,742	13,257	7,634	5,214	8,200	5,267	1,800	7,489	2,214	1,198
(X) Northwest Alaska	3,940	7,169	4,201	2,385	2,659	3,652	1,745	3,329	4,799	1,171
(Y) Yukon River drainage	20,687	22,767	15,521	12,842	13,976	21,677	31,839	23,567	11,563	14,583
(Z) North Slope/Brooks Range	9,462	10,452	11,484	5,076	14,600	6,384	3,153	4,784	3,918	6,204
Arctic-Yukon-Kuskokwim Total	237,676	305,969	234,187	158,291	184,110	249,057	181,436	188,462	164,324	167,086
Alaska Total	340,269	401,157	315,971	229,465	254,983	358,056	265,602	303,806	218,533	236,227

^a Area estimates reflect present-day survey area boundaries. Totals may differ from those found in previously published reports due to area boundary changes that have occurred across study years.

Table 2.81.—Alaska sport Arctic grayling catch estimate **standard errors**, 2008–2017, by region and area.

Region/Area fished	Catch estimate standard errors									
	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Southeast										
(A) Ketchikan	15	0	455	0	0	0	0	0	0	0
(B) Prince of Wales Island	0	0	0	0	0	0	0	0	0	0
(C) Kake, Petersburg, Wrangell, Stikine	0	0	0	0	0	0	0	0	0	0
(D) Sitka	14	183	0	0	151	0	128	0	0	0
(E) Juneau	16	88	0	0	0	0	0	0	0	0
(F1) Skagway	0	0	0	0	0	0	0	0	0	0
(F2) Haines	0	35	0	0	0	0	505	0	0	0
(G) Glacier Bay	0	0	0	0	0	0	0	0	0	0
(H) Yakutat	0	0	0	0	0	0	0	0	0	0
Southeast Total	26	204	455	0	151	0	522	0	0	0
Southcentral										
(J) North Gulf Coast/Prince William Sound ^a	59	79	1,385	742	64	2,229	206	384	386	201
(K) Knik Arm	2,446	2,794	962	1,000	639	1,615	818	1,173	780	940
(L) Anchorage	1,156	434	314	212	973	2,113	1,187	615	436	1,384
(M) Susitna River drainage ^a	2,839	3,526	4,335	3,675	4,507	5,922	7,165	5,225	3,933	2,371
(N) West Cook Inlet drainages ^a	60	11	0	139	103	194	42	231	23	1,273
(PF) Kenai Peninsula freshwater ^a	2,644	2,108	1,673	1,323	1,568	2,838	1,804	1,070	1,029	2,169
(PS) Cook Inlet saltwater	0	0	0	0	0	0	0	0	0	0
(Q) Kodiak	0	0	0	0	0	0	0	0	0	0
(R) Alaska Peninsula/Aleutian Islands	1,031	2,068	1,313	1,129	701	1,636	1,832	2,180	823	1,549
(S) Kvichak River drainage	4,094	2,801	2,856	2,772	3,629	4,477	6,267	11,593	1,987	4,761
(T) Nushagak, Wood River and Togiak	6,172	4,194	5,307	2,868	2,674	4,350	3,097	6,127	1,608	3,566
Southcentral Total	8,822	7,303	7,888	5,856	6,641	9,904	10,389	14,155	4,984	7,405
Arctic-Yukon-Kuskokwim										
(I) Upper Copper River drainage ^a	7,561	16,171	8,307	3,167	3,526	4,506	5,018	3,524	10,233	7,477
(U) Tanana River drainage	11,933	13,966	14,734	8,596	8,445	18,430	18,186	10,715	9,983	11,426
(V) Kuskokwim River/Kuskokwim Bay drainages	5,112	5,292	7,108	10,991	5,173	10,287	3,438	4,966	2,209	3,089
(W) Seward Peninsula/Norton Sound	2,134	2,391	2,070	1,829	2,483	1,794	1,047	3,475	796	476
(X) Northwest Alaska	1,363	2,927	1,296	776	907	1,578	760	1,416	1,473	884
(Y) Yukon River drainage	4,492	5,796	2,599	4,386	2,605	4,731	7,855	7,079	3,374	2,884
(Z) North Slope/Brooks Range	2,339	3,640	2,962	2,048	5,781	2,373	775	1,791	1,116	2,855
Arctic-Yukon-Kuskokwim Total	15,828	23,433	19,503	15,722	12,395	22,554	21,044	14,590	15,025	14,762
Alaska Total	18,138	24,875	20,986	16,743	14,178	24,617	23,231	20,525	15,940	16,296

^a Area estimates reflect present-day survey area boundaries. Totals may differ from those found in previously published reports due to area boundary changes that have occurred across study years.

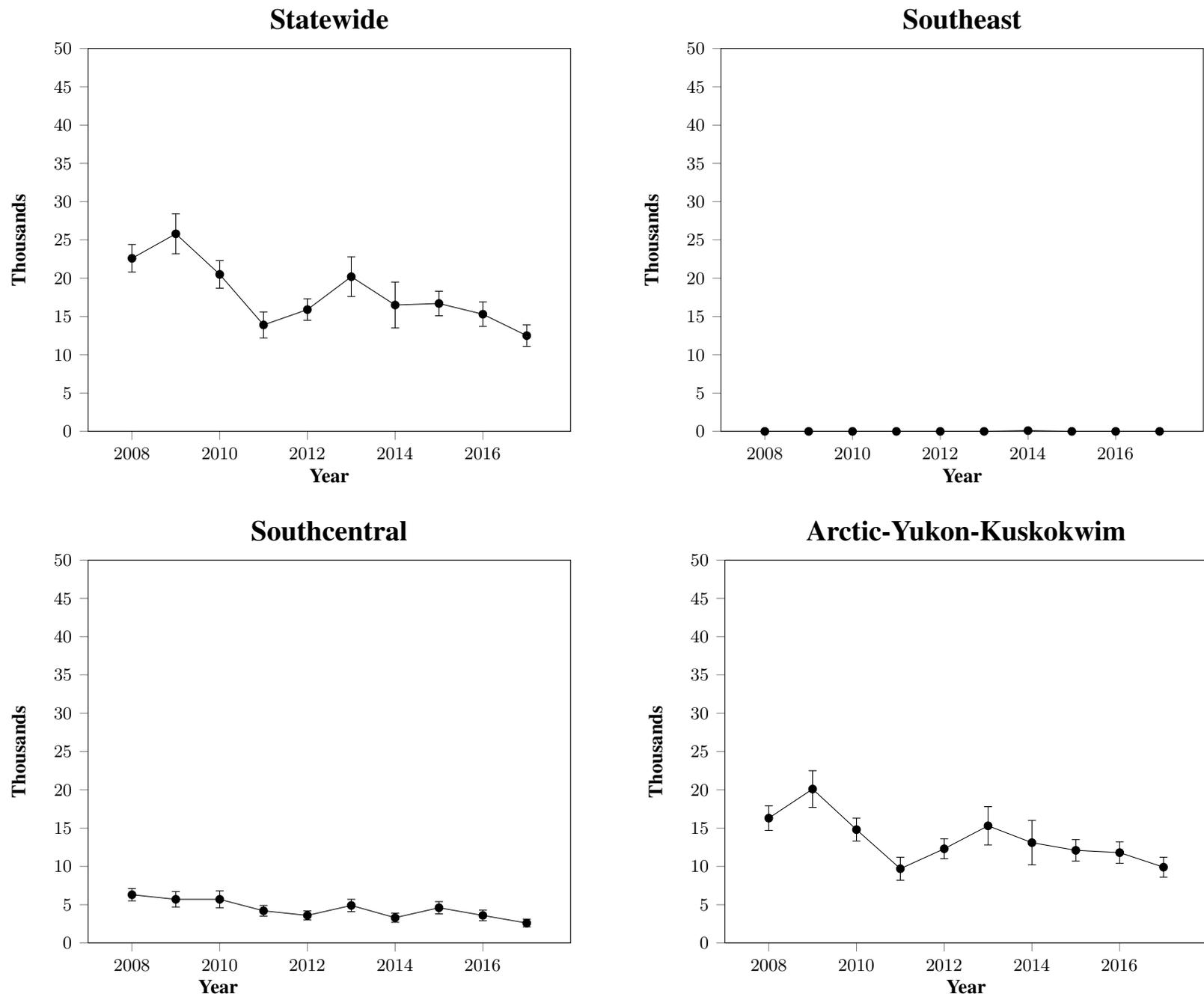


Figure 2.25.—Alaska sport Arctic grayling harvest estimates and standard errors, 2008–2017, by region.

Note: Trends in harvest estimates can reflect changes in the abundance of fish, changes in angler effort, fishery management actions that reduce or liberalize harvest, or a combination of these and other factors.

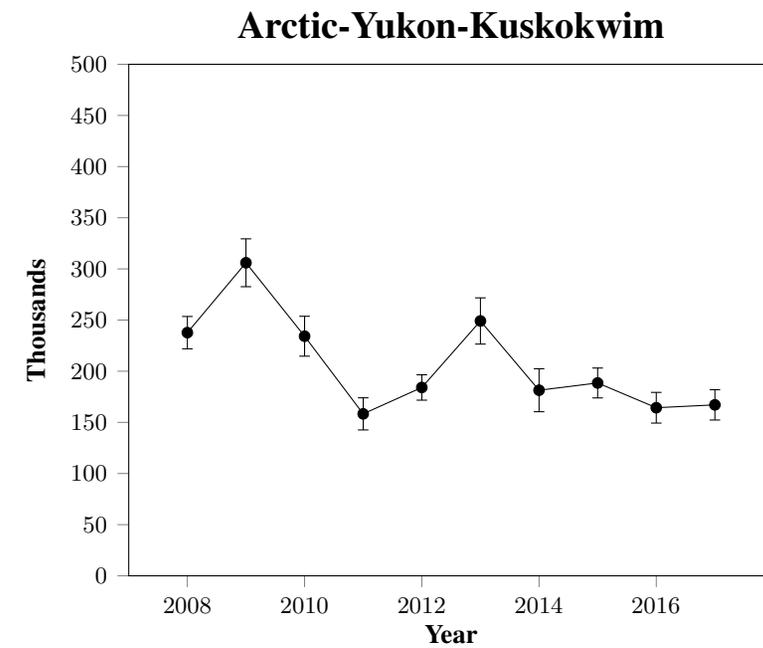
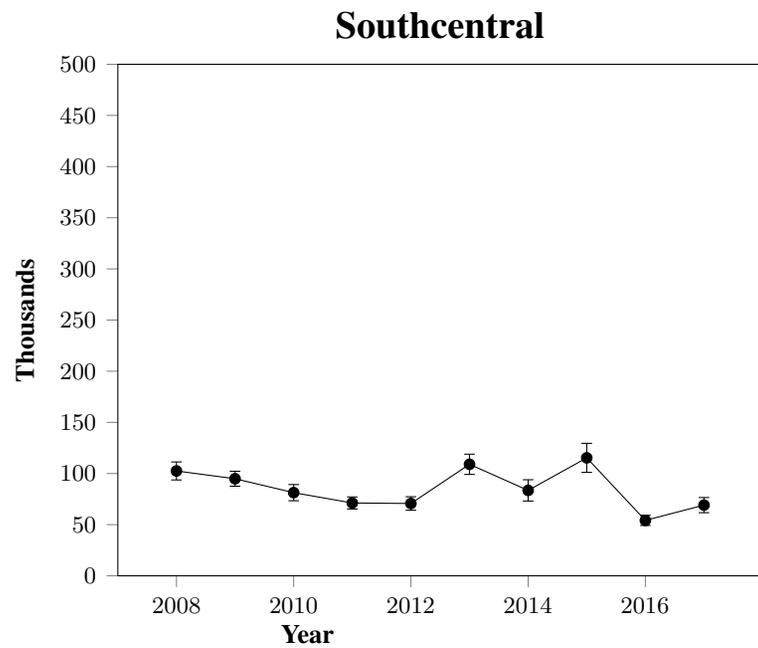
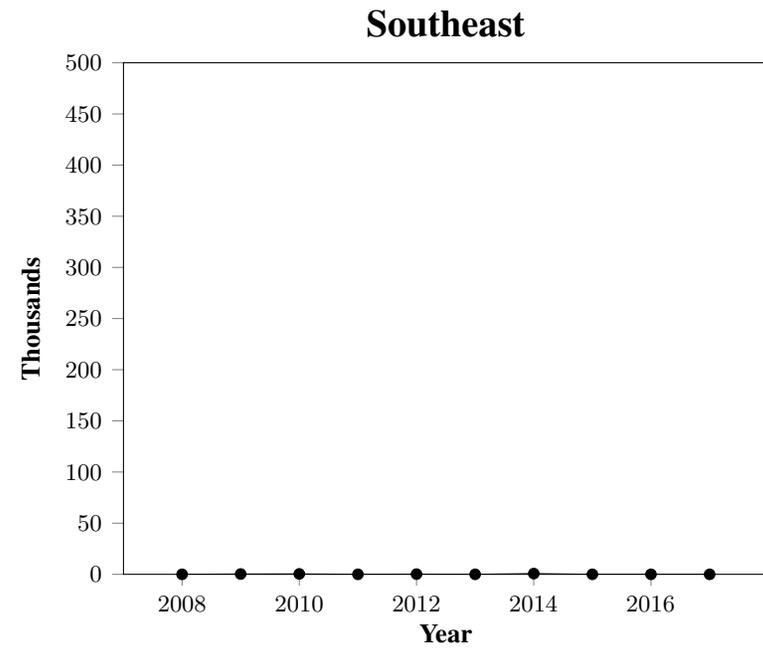
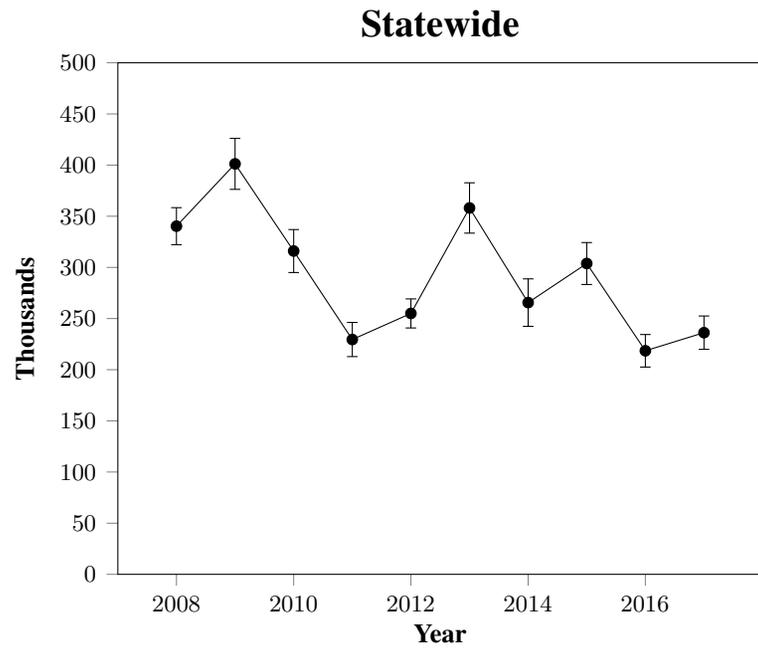


Figure 2.26.—Alaska sport Arctic grayling catch estimates and standard errors, 2008–2017, by region.

Note: Trends in catch estimates can reflect changes in the abundance of fish, changes in angler effort, fishery management actions that reduce or liberalize harvest, or a combination of these and other factors.

Table 2.82.—Alaska sport northern pike harvest estimates, 2008–2017, by region and area.

Region/Area fished	Harvest estimates									
	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Southeast										
(A) Ketchikan	0	0	0	0	0	0	0	0	0	0
(B) Prince of Wales Island	0	0	0	0	0	0	0	0	0	0
(C) Kake, Petersburg, Wrangell, Stikine	0	0	0	0	0	0	0	0	0	0
(D) Sitka	0	0	0	0	0	0	0	0	0	0
(E) Juneau	0	0	0	0	0	0	0	0	0	0
(F1) Skagway	0	0	0	0	0	0	0	0	0	0
(F2) Haines	0	0	0	0	0	0	0	0	0	0
(G) Glacier Bay	0	0	0	0	0	0	0	0	0	0
(H) Yakutat	0	0	0	0	0	0	0	0	0	0
Southeast Total	0	0	0	0	0	0	0	0	0	0
Southcentral										
(J) North Gulf Coast/Prince William Sound ^a	0	0	0	0	0	0	0	0	0	0
(K) Knik Arm	1,286	4,100	3,015	3,871	1,666	6,555	3,498	8,722	6,134	3,369
(L) Anchorage	205	2,040	507	616	312	2,323	100	136	144	355
(M) Susitna River drainage ^a	6,617	5,146	6,673	11,657	6,149	14,497	6,726	12,203	5,054	6,367
(N) West Cook Inlet drainages ^a	96	88	225	19	0	35	0	0	319	32
(PF) Kenai Peninsula freshwater ^a	254	0	59	0	11	451	29	0	0	8
(PS) Cook Inlet saltwater	0	0	0	0	0	0	0	0	0	0
(Q) Kodiak	0	0	0	0	0	0	0	0	0	0
(R) Alaska Peninsula/Aleutian Islands	91	368	171	60	146	63	104	244	0	107
(S) Kvichak River drainage	460	113	148	272	11	161	50	547	135	139
(T) Nushagak, Wood River and Togiak	261	1,064	295	448	285	693	517	78	81	163
Southcentral Total	9,270	12,919	11,093	16,943	8,580	24,778	11,024	21,930	11,867	10,540
Arctic-Yukon-Kuskokwim										
(I) Upper Copper River drainage ^a	0	0	0	0	0	0	0	0	0	0
(U) Tanana River drainage	1,383	3,016	2,651	1,209	2,300	2,087	1,867	1,838	1,707	1,096
(V) Kuskokwim River/Kuskokwim Bay drainages	165	981	909	247	837	321	1,445	332	732	17
(W) Seward Peninsula/Norton Sound	513	539	464	0	407	400	0	136	48	0
(X) Northwest Alaska	53	43	131	134	374	150	171	303	77	0
(Y) Yukon River drainage	1,577	1,266	1,104	430	501	1,482	1,184	551	681	983
(Z) North Slope/Brooks Range	0	0	0	14	0	0	0	0	0	0
Arctic-Yukon-Kuskokwim Total	3,691	5,845	5,259	2,034	4,419	4,440	4,667	3,160	3,245	2,096
Alaska Total	12,961	18,764	16,352	18,977	12,999	29,218	15,691	25,090	15,112	12,636

^a Area estimates reflect present-day survey area boundaries. Totals may differ from those found in previously published reports due to area boundary changes that have occurred across study years.

Table 2.83.—Alaska sport northern pike harvest estimate **standard errors**, 2008–2017, by region and area.

Region/Area fished	Harvest estimate standard errors									
	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Southeast										
(A) Ketchikan	0	0	0	0	0	0	0	0	0	0
(B) Prince of Wales Island	0	0	0	0	0	0	0	0	0	0
(C) Kake, Petersburg, Wrangell, Stikine	0	0	0	0	0	0	0	0	0	0
(D) Sitka	0	0	0	0	0	0	0	0	0	0
(E) Juneau	0	0	0	0	0	0	0	0	0	0
(F1) Skagway	0	0	0	0	0	0	0	0	0	0
(F2) Haines	0	0	0	0	0	0	0	0	0	0
(G) Glacier Bay	0	0	0	0	0	0	0	0	0	0
(H) Yakutat	0	0	0	0	0	0	0	0	0	0
Southeast Total	0	0	0	0	0	0	0	0	0	0
Southcentral										
(J) North Gulf Coast/Prince William Sound ^a	0	0	0	0	0	0	0	0	0	0
(K) Knik Arm	367	1,158	761	1,066	743	2,912	828	5,224	2,045	1,008
(L) Anchorage	82	1,709	226	356	156	2,258	76	104	109	277
(M) Susitna River drainage ^a	2,740	1,133	1,422	3,009	1,652	3,530	1,410	3,821	1,201	2,087
(N) West Cook Inlet drainages ^a	94	80	219	18	0	36	0	0	236	24
(PF) Kenai Peninsula freshwater ^a	172	0	58	0	12	431	31	0	0	8
(PS) Cook Inlet saltwater	0	0	0	0	0	0	0	0	0	0
(Q) Kodiak	0	0	0	0	0	0	0	0	0	0
(R) Alaska Peninsula/Aleutian Islands	45	244	146	36	100	39	66	194	0	73
(S) Kvichak River drainage	262	76	86	228	12	117	35	325	72	84
(T) Nushagak, Wood River and Togiak	104	471	107	184	150	252	255	37	36	88
Southcentral Total	2,800	2,376	1,626	3,228	1,850	5,309	1,655	6,475	2,397	2,365
Arctic-Yukon-Kuskokwim										
(I) Upper Copper River drainage ^a	0	0	0	0	0	0	0	0	0	0
(U) Tanana River drainage	256	476	462	266	557	541	427	384	388	274
(V) Kuskokwim River/Kuskokwim Bay drainages	72	725	435	102	639	167	808	139	486	17
(W) Seward Peninsula/Norton Sound	257	447	271	0	208	195	0	99	36	0
(X) Northwest Alaska	29	42	89	82	238	148	78	210	54	0
(Y) Yukon River drainage	669	319	292	159	180	603	471	204	334	468
(Z) North Slope/Brooks Range	0	0	0	14	0	0	0	0	0	0
Arctic-Yukon-Kuskokwim Total	751	1,038	741	330	902	852	1,037	495	724	539
Alaska Total	2,891	2,628	1,783	3,248	2,033	5,396	1,968	6,490	2,515	2,466

^a Area estimates reflect present-day survey area boundaries. Totals may differ from those found in previously published reports due to area boundary changes that have occurred across study years.

Table 2.84.—Alaska sport northern pike catch estimates, 2008–2017, by region and area.

Region/Area fished	Catch estimates									
	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Southeast										
(A) Ketchikan	0	0	0	0	0	0	0	0	0	0
(B) Prince of Wales Island	0	0	0	0	0	0	0	0	0	0
(C) Kake, Petersburg, Wrangell, Stikine	0	0	0	0	0	0	0	0	0	0
(D) Sitka	0	0	0	0	0	0	0	0	0	0
(E) Juneau	0	0	0	0	0	0	0	0	0	0
(F1) Skagway	0	0	0	0	0	0	0	0	0	0
(F2) Haines	0	0	0	0	0	0	0	0	0	0
(G) Glacier Bay	0	0	0	0	0	0	0	0	0	0
(H) Yakutat	7	100	0	48	0	0	256	49	0	123
Southeast Total	7	100	0	48	0	0	256	49	0	123
Southcentral										
(J) North Gulf Coast/Prince William Sound ^a	0	0	0	0	0	0	0	0	0	0
(K) Knik Arm	2,888	8,919	5,354	5,126	4,217	8,377	6,372	9,252	6,913	3,945
(L) Anchorage	1,267	2,560	594	645	469	2,473	129	198	144	355
(M) Susitna River drainage ^a	21,420	17,953	23,438	18,415	15,170	26,511	8,822	14,889	7,638	7,629
(N) West Cook Inlet drainages ^a	229	1,983	765	37	0	243	1,132	70	319	63
(PF) Kenai Peninsula freshwater ^a	407	0	133	0	21	536	94	0	0	16
(PS) Cook Inlet saltwater	0	0	0	0	0	0	0	0	0	0
(Q) Kodiak	0	0	0	0	0	0	0	0	0	0
(R) Alaska Peninsula/Aleutian Islands	2,435	2,868	1,013	179	1,087	790	722	1,183	970	853
(S) Kvichak River drainage	2,114	2,069	2,338	1,217	1,372	2,480	634	6,421	2,715	1,938
(T) Nushagak, Wood River and Togiak	12,770	6,148	3,177	2,461	2,468	4,743	3,183	1,508	1,158	1,654
Southcentral Total	43,530	42,500	36,812	28,080	24,804	46,153	21,088	33,521	19,857	16,453
Arctic-Yukon-Kuskokwim										
(I) Upper Copper River drainage ^a	0	0	0	0	0	0	0	0	0	0
(U) Tanana River drainage	10,331	18,880	20,073	13,672	19,524	15,293	14,651	14,743	12,450	11,807
(V) Kuskokwim River/Kuskokwim Bay drainages	2,779	4,354	4,359	4,129	2,292	2,954	2,679	2,529	2,662	953
(W) Seward Peninsula/Norton Sound	3,065	1,000	1,359	100	4,780	1,081	125	148	63	0
(X) Northwest Alaska	443	2,061	1,869	562	701	405	504	612	992	0
(Y) Yukon River drainage	8,658	10,930	10,149	5,300	11,463	10,450	18,805	11,732	16,648	7,291
(Z) North Slope/Brooks Range	0	0	0	29	0	0	18	0	0	0
Arctic-Yukon-Kuskokwim Total	25,276	37,225	37,809	23,792	38,760	30,183	36,782	29,764	32,815	20,051
Alaska Total	68,813	79,825	74,621	51,920	63,564	76,336	58,126	63,334	52,672	36,627

^a Area estimates reflect present-day survey area boundaries. Totals may differ from those found in previously published reports due to area boundary changes that have occurred across study years.

Table 2.85.—Alaska sport northern pike catch estimate **standard errors**, 2008–2017, by region and area.

Region/Area fished	Catch estimate standard errors									
	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Southeast										
(A) Ketchikan	0	0	0	0	0	0	0	0	0	0
(B) Prince of Wales Island	0	0	0	0	0	0	0	0	0	0
(C) Kake, Petersburg, Wrangell, Stikine	0	0	0	0	0	0	0	0	0	0
(D) Sitka	0	0	0	0	0	0	0	0	0	0
(E) Juneau	0	0	0	0	0	0	0	0	0	0
(F1) Skagway	0	0	0	0	0	0	0	0	0	0
(F2) Haines	0	0	0	0	0	0	0	0	0	0
(G) Glacier Bay	0	0	0	0	0	0	0	0	0	0
(H) Yakutat	6	102	0	41	0	0	188	50	0	117
Southeast Total	6	102	0	41	0	0	188	50	0	117
Southcentral										
(J) North Gulf Coast/Prince William Sound ^a	0	0	0	0	0	0	0	0	0	0
(K) Knik Arm	683	2,571	1,060	1,201	1,340	3,030	1,421	5,247	2,067	1,052
(L) Anchorage	526	1,702	232	357	206	2,257	105	109	109	277
(M) Susitna River drainage ^a	7,385	3,080	7,130	3,919	4,185	6,180	1,546	4,266	1,718	2,194
(N) West Cook Inlet drainages ^a	185	1,454	570	37	0	156	1,131	66	236	48
(PF) Kenai Peninsula freshwater ^a	234	0	89	0	16	437	55	0	0	12
(PS) Cook Inlet saltwater	0	0	0	0	0	0	0	0	0	0
(Q) Kodiak	0	0	0	0	0	0	0	0	0	0
(R) Alaska Peninsula/Aleutian Islands	1,302	1,098	446	94	399	338	382	392	339	375
(S) Kvichak River drainage	613	446	623	351	412	726	256	5,144	937	870
(T) Nushagak, Wood River and Togiak	5,908	2,700	957	838	845	2,045	1,134	460	458	425
Southcentral Total	9,282	5,262	7,390	4,276	4,574	7,641	2,680	8,668	2,884	2,678
Arctic-Yukon-Kuskokwim										
(I) Upper Copper River drainage ^a	0	0	0	0	0	0	0	0	0	0
(U) Tanana River drainage	2,355	3,092	3,397	2,989	6,155	4,413	4,450	3,564	2,780	3,581
(V) Kuskokwim River/Kuskokwim Bay drainages	854	1,118	1,296	1,233	864	1,282	955	794	918	425
(W) Seward Peninsula/Norton Sound	1,369	570	756	78	3,969	454	97	100	49	0
(X) Northwest Alaska	273	1,463	1,128	295	342	233	308	331	635	0
(Y) Yukon River drainage	2,007	2,526	1,969	2,054	4,117	4,870	5,456	4,905	6,246	2,588
(Z) North Slope/Brooks Range	0	0	0	21	0	0	18	0	0	0
Arctic-Yukon-Kuskokwim Total	3,460	4,338	4,265	3,874	8,609	6,646	7,169	6,180	6,956	4,401
Alaska Total	9,935	6,959	8,512	5,744	9,724	10,369	7,566	10,485	7,495	5,108

^a Area estimates reflect present-day survey area boundaries. Totals may differ from those found in previously published reports due to area boundary changes that have occurred across study years.

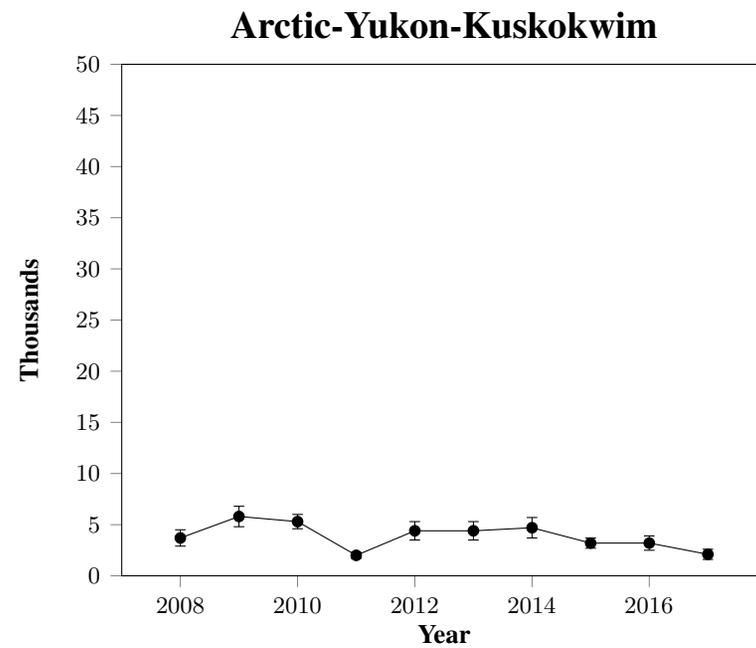
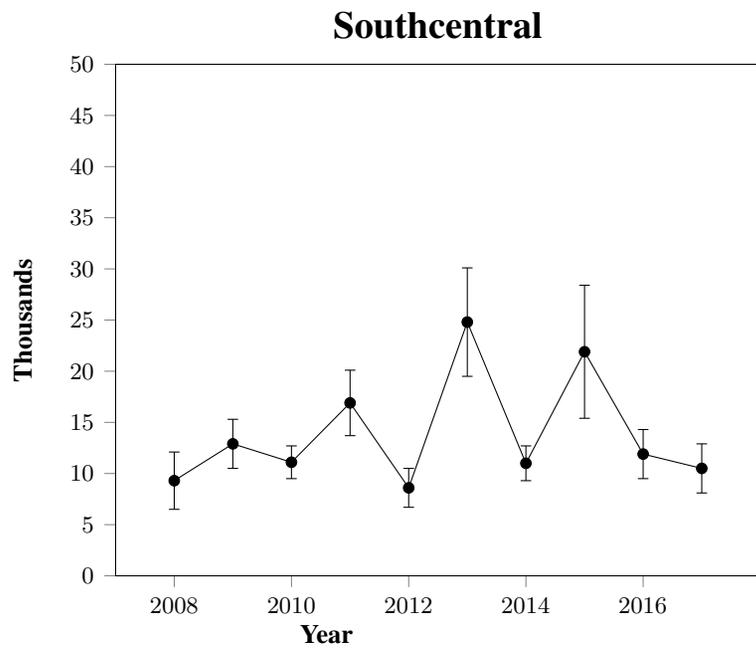
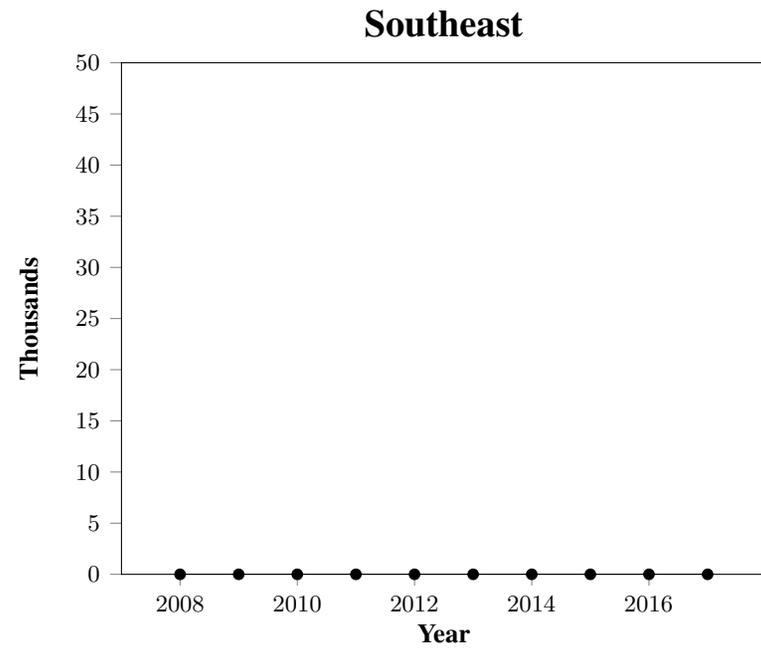
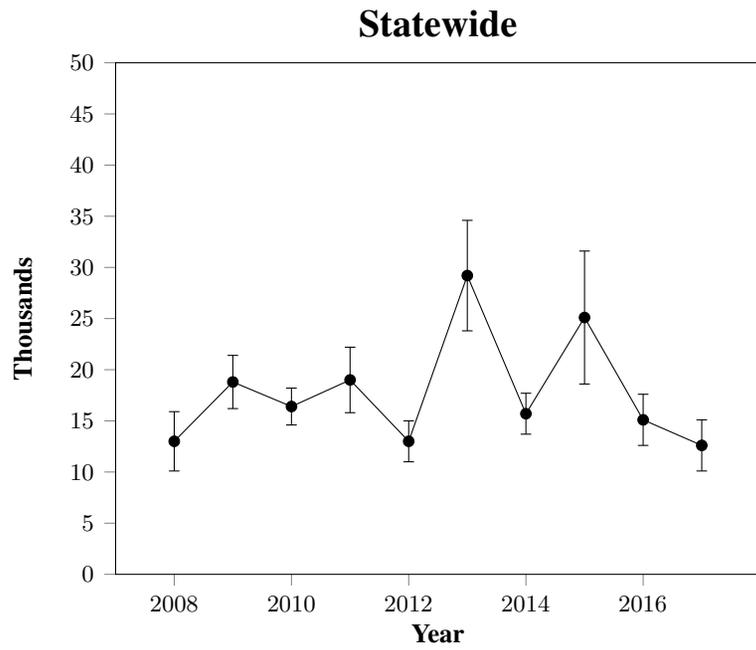


Figure 2.27.—Alaska sport northern pike harvest estimates and standard errors, 2008–2017, by region.

Note: Trends in harvest estimates can reflect changes in the abundance of fish, changes in angler effort, fishery management actions that reduce or liberalize harvest, or a combination of these and other factors.

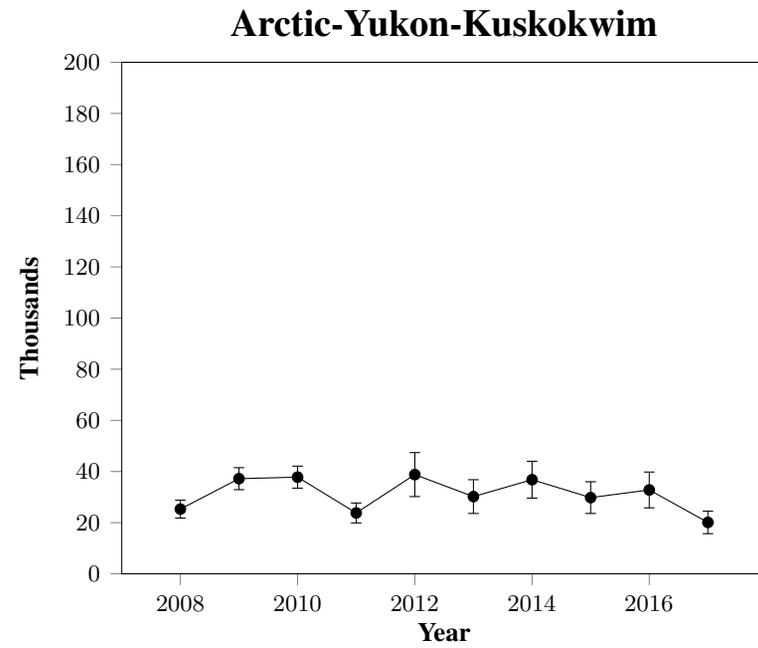
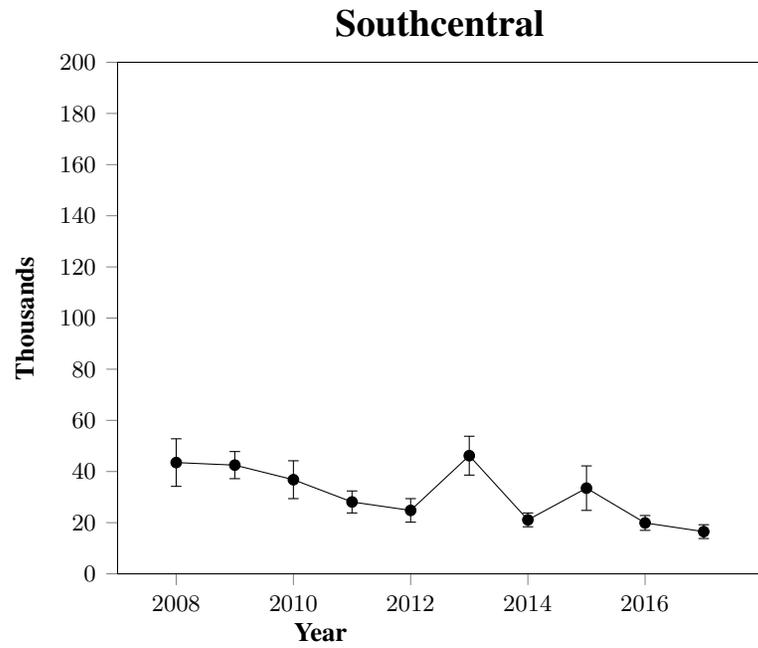
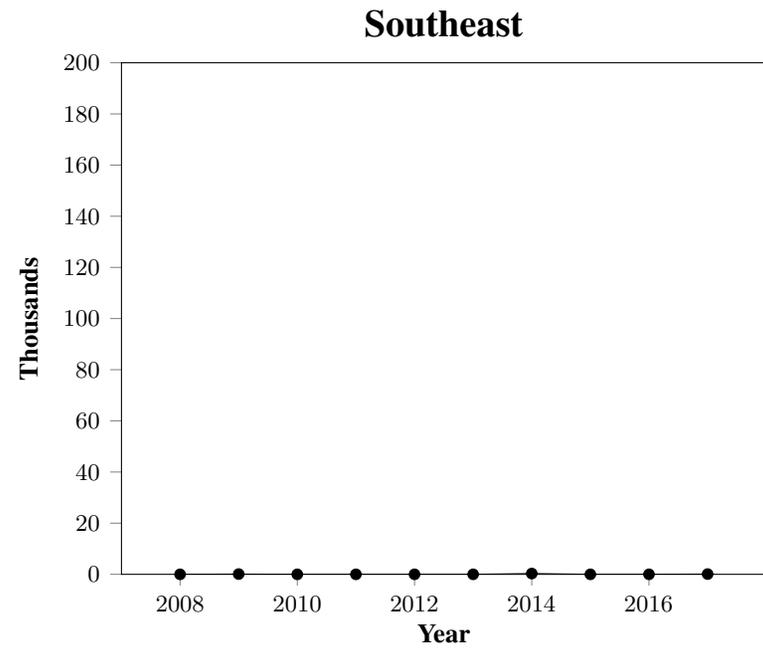
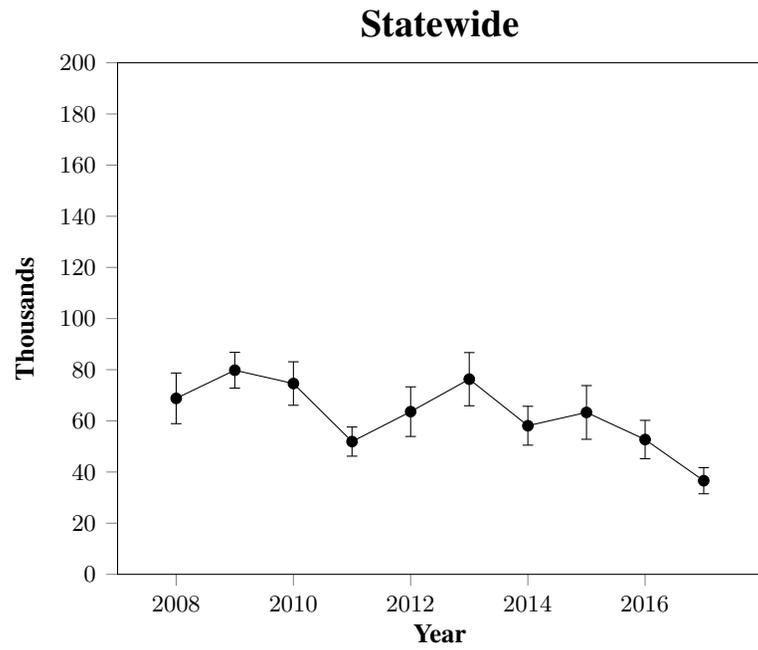


Figure 2.28.—Alaska sport northern pike catch estimates and standard errors, 2008–2017, by region.

Note: Trends in catch estimates can reflect changes in the abundance of fish, changes in angler effort, fishery management actions that reduce or liberalize harvest, or a combination of these and other factors.

Table 2.86.—Alaska sport whitefish harvest estimates, 2008–2017, by region and area.

Region/Area fished	Harvest estimates									
	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Southeast										
(A) Ketchikan	0	0	0	0	0	0	0	0	0	0
(B) Prince of Wales Island	0	0	0	0	0	0	0	0	0	0
(C) Kake, Petersburg, Wrangell, Stikine	0	0	0	0	0	0	0	0	0	0
(D) Sitka	0	0	0	0	0	0	0	0	0	0
(E) Juneau	0	0	0	0	0	0	0	0	0	0
(F1) Skagway	0	0	0	0	0	0	0	0	0	0
(F2) Haines	0	0	0	0	0	0	0	0	0	18
(G) Glacier Bay	0	0	0	0	0	0	0	0	0	0
(H) Yakutat	0	0	0	0	0	0	0	0	0	0
Southeast Total	0	0	0	0	0	0	0	0	0	18
Southcentral										
(J) North Gulf Coast/Prince William Sound ^a	0	0	0	0	0	0	0	0	0	0
(K) Knik Arm	31	16	17	112	0	17	40	0	0	0
(L) Anchorage	0	0	0	0	0	0	0	41	0	0
(M) Susitna River drainage ^a	623	548	564	45	99	231	609	171	56	20
(N) West Cook Inlet drainages ^a	0	0	0	0	17	0	0	0	0	0
(PF) Kenai Peninsula freshwater ^a	299	99	112	70	38	21	7	66	7	8
(PS) Cook Inlet saltwater	0	0	0	0	0	0	0	0	0	0
(Q) Kodiak	0	0	0	0	0	0	0	0	0	0
(R) Alaska Peninsula/Aleutian Islands	159	0	0	0	0	0	0	47	0	0
(S) Kvichak River drainage	64	6	81	449	7	123	0	58	0	12
(T) Nushagak, Wood River and Togiak	0	514	220	32	0	164	31	0	8	0
Southcentral Total	1,176	1,183	994	708	161	556	687	383	71	40
Arctic-Yukon-Kuskokwim										
(I) Upper Copper River drainage ^a	367	71	319	253	74	355	39	208	0	131
(U) Tanana River drainage	227	96	1,300	641	369	810	1,165	193	370	745
(V) Kuskokwim River/Kuskokwim Bay drainages	96	664	54	70	1,216	1,482	424	0	0	0
(W) Seward Peninsula/Norton Sound	139	143	0	0	0	0	0	10	40	0
(X) Northwest Alaska	168	247	398	8	204	408	0	10	7	0
(Y) Yukon River drainage	230	499	290	112	0	7	20	103	15	486
(Z) North Slope/Brooks Range	0	28	0	0	0	0	0	0	0	0
Arctic-Yukon-Kuskokwim Total	1,227	1,748	2,361	1,084	1,863	3,062	1,648	524	432	1,362
Alaska Total	2,403	2,931	3,355	1,792	2,024	3,618	2,335	907	503	1,420

^a Area estimates reflect present-day survey area boundaries. Totals may differ from those found in previously published reports due to area boundary changes that have occurred across study years.

Table 2.87.--Alaska sport whitefish harvest estimate **standard errors**, 2008–2017, by region and area.

Region/Area fished	Harvest estimate standard errors									
	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Southeast										
(A) Ketchikan	0	0	0	0	0	0	0	0	0	0
(B) Prince of Wales Island	0	0	0	0	0	0	0	0	0	0
(C) Kake, Petersburg, Wrangell, Stikine	0	0	0	0	0	0	0	0	0	0
(D) Sitka	0	0	0	0	0	0	0	0	0	0
(E) Juneau	0	0	0	0	0	0	0	0	0	0
(F1) Skagway	0	0	0	0	0	0	0	0	0	0
(F2) Haines	0	0	0	0	0	0	0	0	0	12
(G) Glacier Bay	0	0	0	0	0	0	0	0	0	0
(H) Yakutat	0	0	0	0	0	0	0	0	0	0
Southeast Total	0	0	0	0	0	0	0	0	0	12
Southcentral										
(J) North Gulf Coast/Prince William Sound ^a	0	0	0	0	0	0	0	0	0	0
(K) Knik Arm	31	17	18	110	0	18	27	0	0	0
(L) Anchorage	0	0	0	0	0	0	0	40	0	0
(M) Susitna River drainage ^a	283	333	317	30	73	139	333	110	25	15
(N) West Cook Inlet drainages ^a	0	0	0	0	17	0	0	0	0	0
(PF) Kenai Peninsula freshwater ^a	231	67	76	45	19	16	7	37	7	8
(PS) Cook Inlet saltwater	0	0	0	0	0	0	0	0	0	0
(Q) Kodiak	0	0	0	0	0	0	0	0	0	0
(R) Alaska Peninsula/Aleutian Islands	155	0	0	0	0	0	0	45	0	0
(S) Kvichak River drainage	63	6	79	458	8	119	0	44	0	12
(T) Nushagak, Wood River and Togiak	0	506	150	21	0	112	31	0	9	0
Southcentral Total	404	604	375	470	77	213	337	136	27	20
Arctic-Yukon-Kuskokwim										
(I) Upper Copper River drainage ^a	245	42	162	230	46	236	39	142	0	129
(U) Tanana River drainage	95	47	524	386	189	303	656	138	124	288
(V) Kuskokwim River/Kuskokwim Bay drainages	55	311	39	37	1,191	1,386	401	0	0	0
(W) Seward Peninsula/Norton Sound	92	93	0	0	0	0	0	11	42	0
(X) Northwest Alaska	104	207	207	8	191	284	0	10	6	0
(Y) Yukon River drainage	121	220	183	113	0	7	15	105	15	393
(Z) North Slope/Brooks Range	0	28	0	0	0	0	0	0	0	0
Arctic-Yukon-Kuskokwim Total	328	427	613	464	1,226	1,444	769	216	131	501
Alaska Total	528	739	712	657	1,227	1,463	839	265	133	501

^a Area estimates reflect present-day survey area boundaries. Totals may differ from those found in previously published reports due to area boundary changes that have occurred across study years.

Table 2.88.—Alaska sport whitefish catch estimates, 2008–2017, by region and area.

Region/Area fished	Catch estimates									
	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Southeast										
(A) Ketchikan	0	0	0	0	0	0	0	0	0	0
(B) Prince of Wales Island	0	0	0	0	0	0	0	0	0	0
(C) Kake, Petersburg, Wrangell, Stikine	0	0	0	0	0	0	0	0	0	0
(D) Sitka	0	0	0	0	0	0	0	0	0	0
(E) Juneau	0	0	0	0	0	0	0	0	0	0
(F1) Skagway	0	0	0	0	0	0	0	0	0	0
(F2) Haines	0	0	0	0	0	0	7	0	0	18
(G) Glacier Bay	0	0	0	0	0	0	0	0	0	0
(H) Yakutat	0	0	0	0	0	0	0	0	38	0
Southeast Total	0	0	0	0	0	0	7	0	38	18
Southcentral										
(J) North Gulf Coast/Prince William Sound ^a	0	0	0	0	0	0	0	0	0	0
(K) Knik Arm	244	26	149	112	43	38	47	0	0	12
(L) Anchorage	0	0	0	0	0	0	0	41	0	0
(M) Susitna River drainage ^a	2,407	1,660	2,320	397	519	1,243	1,621	1,199	220	480
(N) West Cook Inlet drainages ^a	7	29	6	0	42	0	395	9	0	130
(PF) Kenai Peninsula freshwater ^a	1,992	1,178	1,520	327	500	654	589	541	283	1,187
(PS) Cook Inlet saltwater	0	0	0	0	0	0	0	0	0	0
(Q) Kodiak	0	0	0	0	0	0	0	0	0	0
(R) Alaska Peninsula/Aleutian Islands	159	116	305	109	93	87	68	103	448	348
(S) Kvichak River drainage	334	196	554	699	559	474	244	277	181	179
(T) Nushagak, Wood River and Togiak	236	922	391	227	48	319	258	545	366	602
Southcentral Total	5,379	4,127	5,245	1,871	1,804	2,815	3,222	2,715	1,498	2,938
Arctic-Yukon-Kuskokwim										
(I) Upper Copper River drainage ^a	1,132	224	676	343	231	426	1,221	441	207	286
(U) Tanana River drainage	1,418	1,539	1,760	1,023	523	1,647	1,744	422	612	822
(V) Kuskokwim River/Kuskokwim Bay drainages	380	957	688	555	1,270	1,560	485	537	522	219
(W) Seward Peninsula/Norton Sound	1,003	297	66	45	92	52	18	10	494	0
(X) Northwest Alaska	303	873	1,555	510	204	608	48	19	7	312
(Y) Yukon River drainage	471	2,144	476	143	7	7	81	144	54	543
(Z) North Slope/Brooks Range	40	56	0	0	67	14	0	0	0	0
Arctic-Yukon-Kuskokwim Total	4,747	6,090	5,221	2,619	2,394	4,314	3,597	1,573	1,896	2,182
Alaska Total	10,126	10,217	10,466	4,490	4,198	7,129	6,826	4,288	3,432	5,138

^a Area estimates reflect present-day survey area boundaries. Totals may differ from those found in previously published reports due to area boundary changes that have occurred across study years.

Table 2.89.—Alaska sport whitefish catch estimate **standard errors**, 2008–2017, by region and area.

Region/Area fished	Catch estimate standard errors									
	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Southeast										
(A) Ketchikan	0	0	0	0	0	0	0	0	0	0
(B) Prince of Wales Island	0	0	0	0	0	0	0	0	0	0
(C) Kake, Petersburg, Wrangell, Stikine	0	0	0	0	0	0	0	0	0	0
(D) Sitka	0	0	0	0	0	0	0	0	0	0
(E) Juneau	0	0	0	0	0	0	0	0	0	0
(F1) Skagway	0	0	0	0	0	0	0	0	0	0
(F2) Haines	0	0	0	0	0	0	7	0	0	12
(G) Glacier Bay	0	0	0	0	0	0	0	0	0	0
(H) Yakutat	0	0	0	0	0	0	0	0	39	0
Southeast Total	0	0	0	0	0	0	7	0	39	12
Southcentral										
(J) North Gulf Coast/Prince William Sound ^a	0	0	0	0	0	0	0	0	0	0
(K) Knik Arm	152	19	109	110	44	27	28	0	0	12
(L) Anchorage	0	0	0	0	0	0	0	40	0	0
(M) Susitna River drainage ^a	696	563	580	129	145	365	512	533	82	234
(N) West Cook Inlet drainages ^a	6	19	6	0	27	0	395	9	0	90
(PF) Kenai Peninsula freshwater ^a	416	210	278	101	179	208	197	143	69	466
(PS) Cook Inlet saltwater	0	0	0	0	0	0	0	0	0	0
(Q) Kodiak	0	0	0	0	0	0	0	0	0	0
(R) Alaska Peninsula/Aleutian Islands	155	53	152	55	71	44	35	62	262	223
(S) Kvichak River drainage	117	82	259	475	245	332	103	123	70	86
(T) Nushagak, Wood River and Togiak	123	534	184	85	24	131	158	399	181	303
Southcentral Total	865	800	747	526	341	552	699	684	340	662
Arctic-Yukon-Kuskokwim										
(I) Upper Copper River drainage ^a	469	94	245	236	79	238	1,174	244	123	186
(U) Tanana River drainage	840	934	593	559	205	602	720	173	188	292
(V) Kuskokwim River/Kuskokwim Bay drainages	117	334	234	277	1,191	1,386	400	385	352	146
(W) Seward Peninsula/Norton Sound	493	142	45	28	63	36	13	11	399	0
(X) Northwest Alaska	167	674	845	483	191	409	40	14	6	306
(Y) Yukon River drainage	310	1,136	231	118	7	7	32	113	33	399
(Z) North Slope/Brooks Range	24	55	0	0	68	13	0	0	0	0
Arctic-Yukon-Kuskokwim Total	1,151	1,660	1,102	817	1,231	1,579	1,431	494	557	620
Alaska Total	1,449	1,830	1,317	971	1,279	1,690	1,583	836	638	902

^a Area estimates reflect present-day survey area boundaries. Totals may differ from those found in previously published reports due to area boundary changes that have occurred across study years.

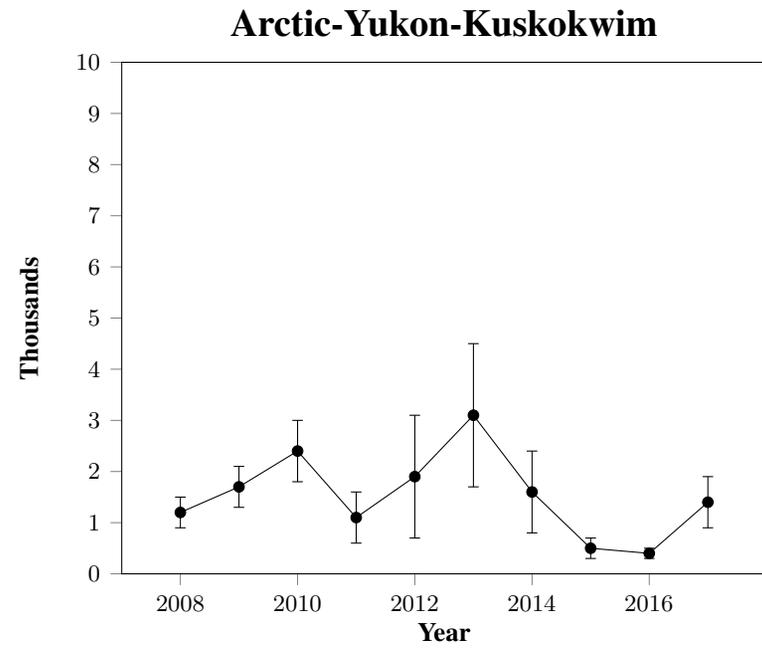
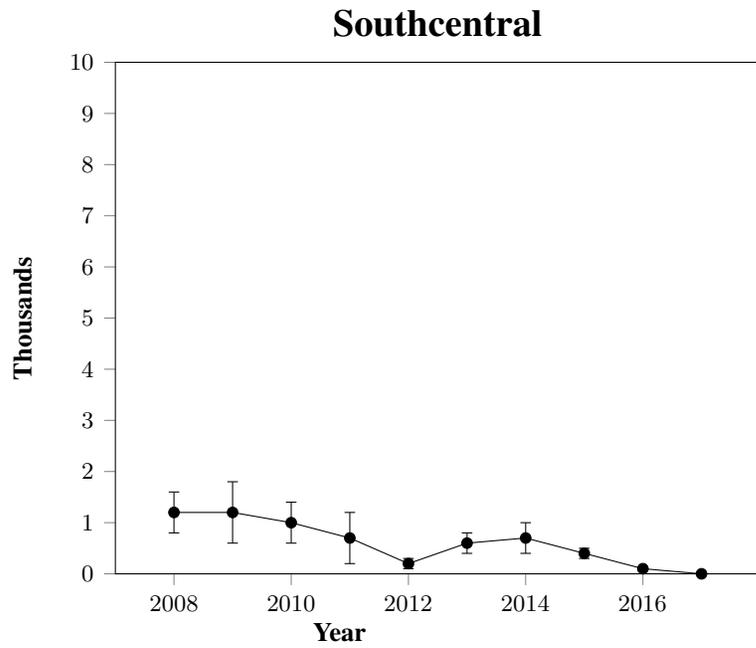
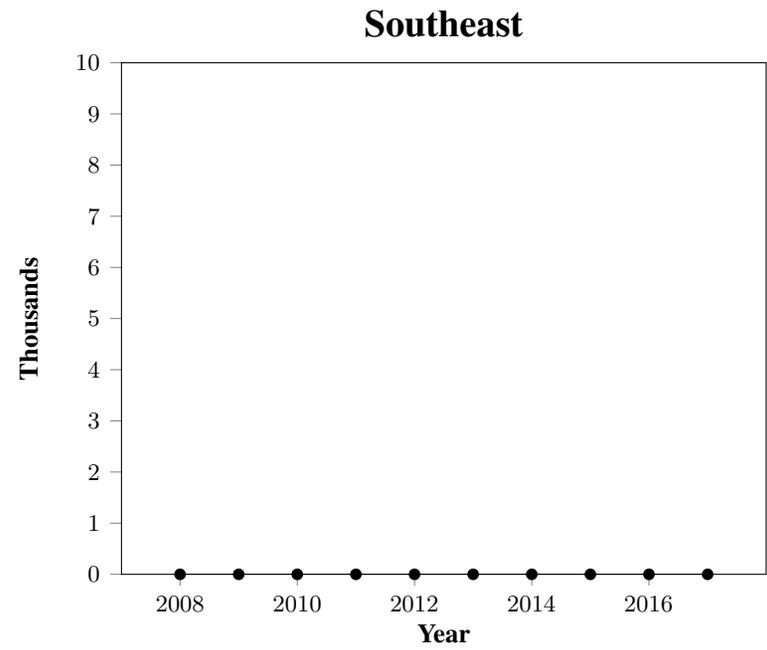
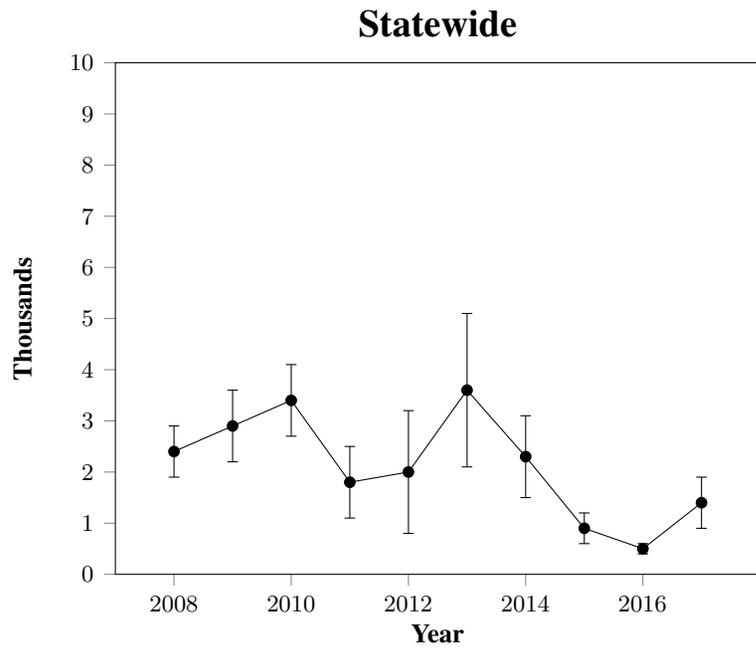


Figure 2.29.—Alaska sport whitefish harvest estimates and standard errors, 2008–2017, by region.

Note: Trends in harvest estimates can reflect changes in the abundance of fish, changes in angler effort, fishery management actions that reduce or liberalize harvest, or a combination of these and other factors.

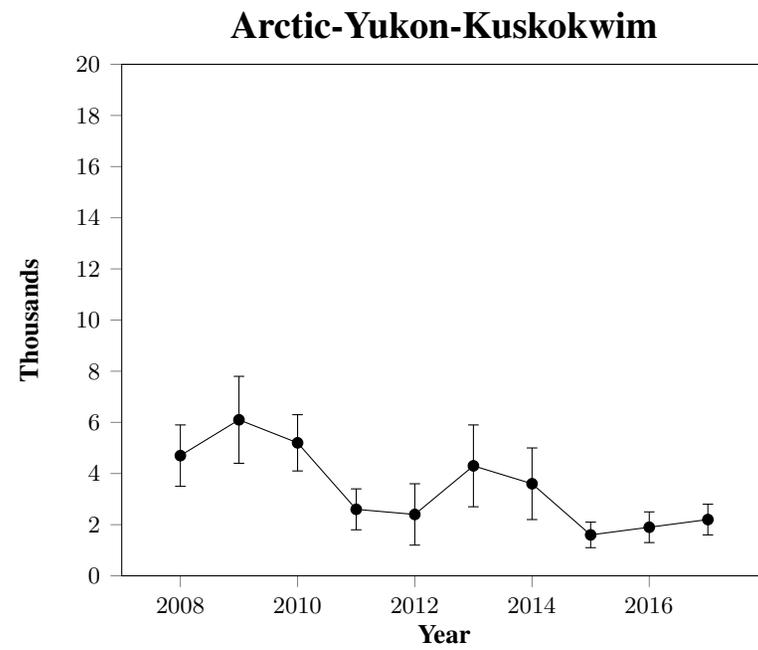
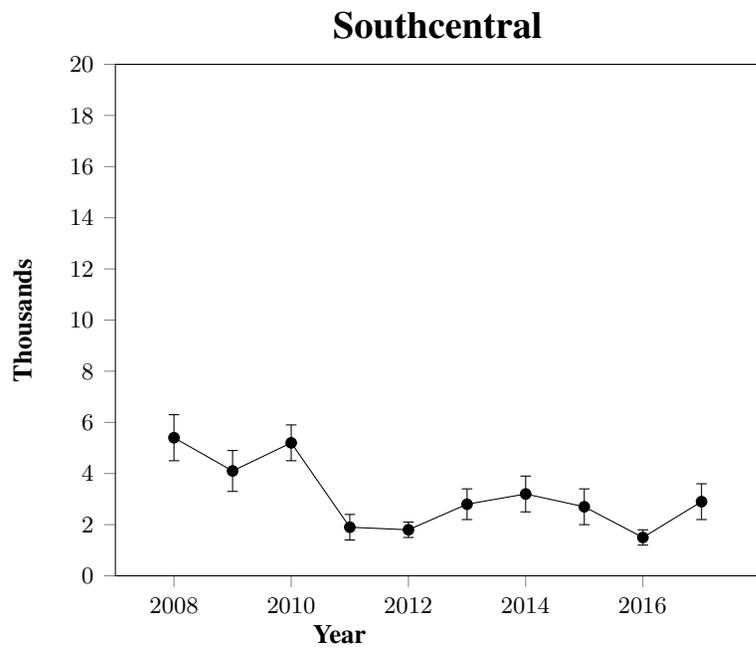
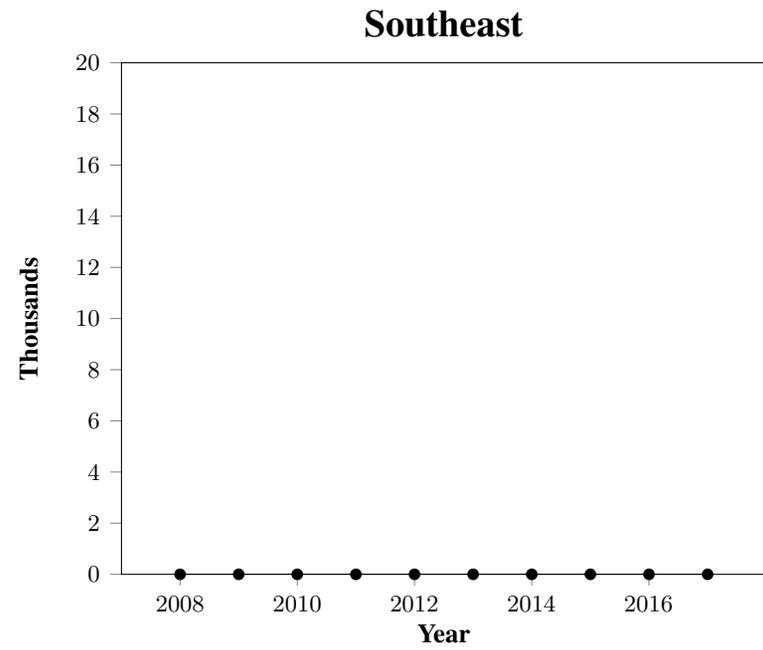
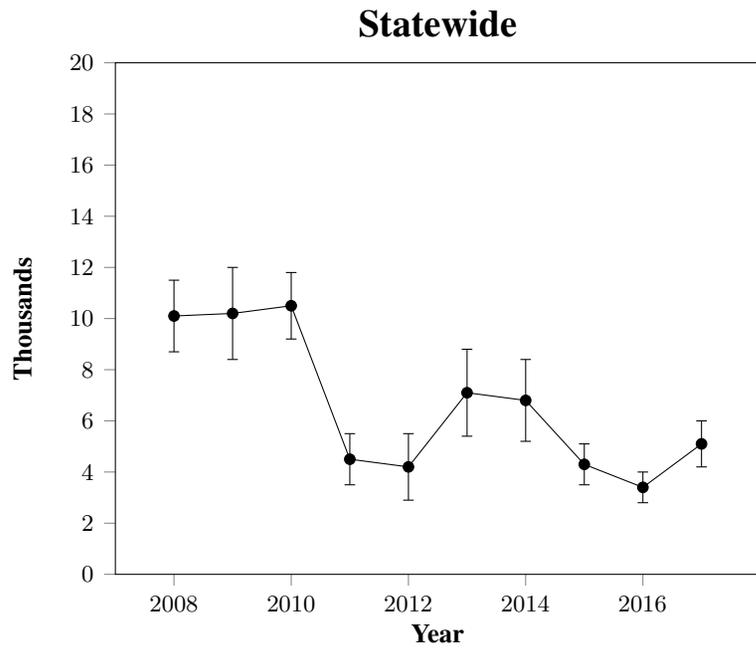


Figure 2.30.—Alaska sport whitefish catch estimates and standard errors, 2008–2017, by region.

Note: Trends in catch estimates can reflect changes in the abundance of fish, changes in angler effort, fishery management actions that reduce or liberalize harvest, or a combination of these and other factors.

Table 2.90.—Alaska sport burbot harvest estimates, 2008–2017, by region and area.

Region/Area fished	Harvest estimates									
	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Southeast										
(A) Ketchikan	0	0	0	0	0	0	0	0	0	0
(B) Prince of Wales Island	0	0	0	0	0	0	0	0	0	0
(C) Kake, Petersburg, Wrangell, Stikine	0	0	0	0	0	0	0	0	0	0
(D) Sitka	0	0	0	0	0	0	0	0	0	0
(E) Juneau	0	0	0	0	0	0	0	0	0	0
(F1) Skagway	0	0	0	0	0	0	0	0	0	0
(F2) Haines	0	0	0	0	0	0	0	0	0	0
(G) Glacier Bay	0	0	0	0	0	0	0	0	0	0
(H) Yakutat	0	0	0	0	0	0	0	0	0	0
Southeast Total	0	0	0	0	0	0	0	0	0	0
Southcentral										
(J) North Gulf Coast/Prince William Sound ^a	0	0	0	0	0	0	0	0	0	0
(K) Knik Arm	926	17	163	132	33	26	484	386	215	115
(L) Anchorage	0	0	0	0	0	0	0	0	0	0
(M) Susitna River drainage ^a	1,532	1,012	1,873	428	644	1,227	656	647	535	374
(N) West Cook Inlet drainages ^a	0	0	0	0	0	0	0	0	0	0
(PF) Kenai Peninsula freshwater ^a	0	0	202	122	0	0	142	0	172	0
(PS) Cook Inlet saltwater	0	0	0	0	0	0	0	0	0	0
(Q) Kodiak	0	0	0	0	0	0	0	0	0	0
(R) Alaska Peninsula/Aleutian Islands	0	0	0	0	0	0	0	0	0	0
(S) Kvichak River drainage	0	0	133	0	0	0	0	0	0	0
(T) Nushagak, Wood River and Togiak	0	26	0	0	0	0	0	58	0	0
Southcentral Total	2,458	1,055	2,371	682	677	1,253	1,282	1,091	922	489
Arctic-Yukon-Kuskokwim										
(I) Upper Copper River drainage ^a	524	2,124	1,601	328	690	903	0	119	382	501
(U) Tanana River drainage	1,227	1,879	2,010	1,024	1,128	1,436	1,745	1,877	1,689	1,032
(V) Kuskokwim River/Kuskokwim Bay drainages	0	0	92	0	1,857	597	259	0	0	0
(W) Seward Peninsula/Norton Sound	63	0	0	122	0	0	0	19	0	0
(X) Northwest Alaska	67	0	0	0	0	0	0	19	20	0
(Y) Yukon River drainage	279	789	173	168	0	36	277	13	91	114
(Z) North Slope/Brooks Range	0	6	18	12	0	0	0	0	0	0
Arctic-Yukon-Kuskokwim Total	2,160	4,798	3,894	1,654	3,675	2,972	2,281	2,047	2,182	1,647
Alaska Total	4,618	5,853	6,265	2,336	4,352	4,225	3,563	3,138	3,104	2,136

^a Area estimates reflect present-day survey area boundaries. Totals may differ from those found in previously published reports due to area boundary changes that have occurred across study years.

Table 2.91.—Alaska sport burbot harvest estimate **standard errors**, 2008–2017, by region and area.

Region/Area fished	Harvest estimate standard errors									
	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Southeast										
(A) Ketchikan	0	0	0	0	0	0	0	0	0	0
(B) Prince of Wales Island	0	0	0	0	0	0	0	0	0	0
(C) Kake, Petersburg, Wrangell, Stikine	0	0	0	0	0	0	0	0	0	0
(D) Sitka	0	0	0	0	0	0	0	0	0	0
(E) Juneau	0	0	0	0	0	0	0	0	0	0
(F1) Skagway	0	0	0	0	0	0	0	0	0	0
(F2) Haines	0	0	0	0	0	0	0	0	0	0
(G) Glacier Bay	0	0	0	0	0	0	0	0	0	0
(H) Yakutat	0	0	0	0	0	0	0	0	0	0
Southeast Total	0	0	0	0	0	0	0	0	0	0
Southcentral										
(J) North Gulf Coast/Prince William Sound ^a	0	0	0	0	0	0	0	0	0	0
(K) Knik Arm	644	17	89	93	33	19	394	246	218	78
(L) Anchorage	0	0	0	0	0	0	0	0	0	0
(M) Susitna River drainage ^a	367	292	677	107	235	336	283	255	208	136
(N) West Cook Inlet drainages ^a	0	0	0	0	0	0	0	0	0	0
(PF) Kenai Peninsula freshwater ^a	0	0	187	119	0	0	104	0	120	0
(PS) Cook Inlet saltwater	0	0	0	0	0	0	0	0	0	0
(Q) Kodiak	0	0	0	0	0	0	0	0	0	0
(R) Alaska Peninsula/Aleutian Islands	0	0	0	0	0	0	0	0	0	0
(S) Kvichak River drainage	0	0	110	0	0	0	0	0	0	0
(T) Nushagak, Wood River and Togiak	0	19	0	0	0	0	0	55	0	0
Southcentral Total	745	292	701	183	238	336	503	353	318	160
Arctic-Yukon-Kuskokwim										
(I) Upper Copper River drainage ^a	180	1,101	488	164	543	390	0	64	179	302
(U) Tanana River drainage	372	615	652	312	358	532	930	676	544	404
(V) Kuskokwim River/Kuskokwim Bay drainages	0	0	97	0	1,517	478	241	0	0	0
(W) Seward Peninsula/Norton Sound	53	0	0	116	0	0	0	20	0	0
(X) Northwest Alaska	66	0	0	0	0	0	0	19	21	0
(Y) Yukon River drainage	180	411	99	100	0	27	255	13	63	106
(Z) North Slope/Brooks Range	0	6	18	13	0	0	0	0	0	0
Arctic-Yukon-Kuskokwim Total	450	1,315	831	387	1,648	799	990	679	575	505
Alaska Total	877	1,351	1,072	430	1,655	869	1,112	763	673	536

^a Area estimates reflect present-day survey area boundaries. Totals may differ from those found in previously published reports due to area boundary changes that have occurred across study years.

Table 2.92.—Alaska sport burbot catch estimates, 2008–2017, by region and area.

Region/Area fished	Catch estimates									
	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Southeast										
(A) Ketchikan	0	0	0	0	0	0	0	0	0	0
(B) Prince of Wales Island	0	0	0	0	0	0	0	0	0	0
(C) Kake, Petersburg, Wrangell, Stikine	0	0	0	0	0	0	0	0	0	0
(D) Sitka	0	0	0	0	0	0	0	0	0	0
(E) Juneau	0	0	0	0	0	0	0	0	0	0
(F1) Skagway	0	0	0	0	0	0	0	0	0	0
(F2) Haines	0	0	0	0	0	0	0	0	0	0
(G) Glacier Bay	0	0	0	0	0	0	0	0	0	0
(H) Yakutat	0	0	0	0	0	0	0	0	0	0
Southeast Total	0	0	0	0	0	0	0	0	0	0
Southcentral										
(J) North Gulf Coast/Prince William Sound ^a	0	0	0	0	0	0	0	0	0	0
(K) Knik Arm	1,642	482	207	157	84	42	614	1,379	279	115
(L) Anchorage	0	0	0	0	0	0	0	0	0	0
(M) Susitna River drainage ^a	2,450	1,510	4,637	1,163	1,183	1,469	1,326	998	899	464
(N) West Cook Inlet drainages ^a	0	0	0	0	0	0	0	0	0	0
(PF) Kenai Peninsula freshwater ^a	17	65	202	134	0	8	323	0	301	0
(PS) Cook Inlet saltwater	0	0	0	0	0	0	0	0	0	0
(Q) Kodiak	0	0	0	0	0	0	0	0	0	0
(R) Alaska Peninsula/Aleutian Islands	0	0	0	0	0	8	0	0	0	0
(S) Kvichak River drainage	0	6	133	0	0	0	0	0	0	0
(T) Nushagak, Wood River and Togiak	8	71	0	0	0	8	16	65	0	0
Southcentral Total	4,117	2,134	5,179	1,454	1,267	1,535	2,279	2,442	1,479	579
Arctic-Yukon-Kuskokwim										
(I) Upper Copper River drainage ^a	712	2,416	2,097	509	1,075	1,363	0	167	532	591
(U) Tanana River drainage	1,590	4,256	3,164	1,224	1,299	1,693	1,932	2,929	3,385	1,200
(V) Kuskokwim River/Kuskokwim Bay drainages	0	0	216	6	2,076	607	291	0	0	0
(W) Seward Peninsula/Norton Sound	63	0	7	122	0	0	0	19	0	0
(X) Northwest Alaska	67	0	0	8	0	0	202	19	20	0
(Y) Yukon River drainage	286	898	252	245	17	48	337	13	91	139
(Z) North Slope/Brooks Range	58	6	36	12	0	0	0	0	0	0
Arctic-Yukon-Kuskokwim Total	2,776	7,576	5,772	2,126	4,467	3,711	2,762	3,147	4,028	1,930
Alaska Total	6,893	9,710	10,951	3,580	5,734	5,246	5,041	5,589	5,507	2,509

^a Area estimates reflect present-day survey area boundaries. Totals may differ from those found in previously published reports due to area boundary changes that have occurred across study years.

Table 2.93.—Alaska sport burbot catch estimate **standard errors**, 2008–2017, by region and area.

Region/Area fished	Catch estimate standard errors									
	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Southeast										
(A) Ketchikan	0	0	0	0	0	0	0	0	0	0
(B) Prince of Wales Island	0	0	0	0	0	0	0	0	0	0
(C) Kake, Petersburg, Wrangell, Stikine	0	0	0	0	0	0	0	0	0	0
(D) Sitka	0	0	0	0	0	0	0	0	0	0
(E) Juneau	0	0	0	0	0	0	0	0	0	0
(F1) Skagway	0	0	0	0	0	0	0	0	0	0
(F2) Haines	0	0	0	0	0	0	0	0	0	0
(G) Glacier Bay	0	0	0	0	0	0	0	0	0	0
(H) Yakutat	0	0	0	0	0	0	0	0	0	0
Southeast Total	0	0	0	0	0	0	0	0	0	0
Southcentral										
(J) North Gulf Coast/Prince William Sound ^a	0	0	0	0	0	0	0	0	0	0
(K) Knik Arm	819	362	94	99	82	25	413	998	228	78
(L) Anchorage	0	0	0	0	0	0	0	0	0	0
(M) Susitna River drainage ^a	527	372	2,086	325	417	379	458	302	304	148
(N) West Cook Inlet drainages ^a	0	0	0	0	0	0	0	0	0	0
(PF) Kenai Peninsula freshwater ^a	17	66	187	119	0	8	260	0	228	0
(PS) Cook Inlet saltwater	0	0	0	0	0	0	0	0	0	0
(Q) Kodiak	0	0	0	0	0	0	0	0	0	0
(R) Alaska Peninsula/Aleutian Islands	0	0	0	0	0	8	0	0	0	0
(S) Kvichak River drainage	0	6	110	0	0	0	0	0	0	0
(T) Nushagak, Wood River and Togiak	8	49	0	0	0	8	16	56	0	0
Southcentral Total	975	519	2,083	357	427	379	666	1,045	438	171
Arctic-Yukon-Kuskokwim										
(I) Upper Copper River drainage ^a	252	1,114	596	231	710	490	0	98	249	352
(U) Tanana River drainage	477	1,947	1,082	375	393	559	944	1,160	1,416	419
(V) Kuskokwim River/Kuskokwim Bay drainages	0	0	152	6	1,595	479	246	0	0	0
(W) Seward Peninsula/Norton Sound	53	0	7	116	0	0	0	20	0	0
(X) Northwest Alaska	66	0	0	8	0	0	194	19	21	0
(Y) Yukon River drainage	181	442	156	166	17	38	294	13	63	111
(Z) North Slope/Brooks Range	43	6	25	13	0	0	0	0	0	0
Arctic-Yukon-Kuskokwim Total	562	2,306	1,251	485	1,783	877	1,026	1,161	1,430	546
Alaska Total	1,129	2,364	2,372	603	1,818	961	1,230	1,590	1,477	579

^a Area estimates reflect present-day survey area boundaries. Totals may differ from those found in previously published reports due to area boundary changes that have occurred across study years.

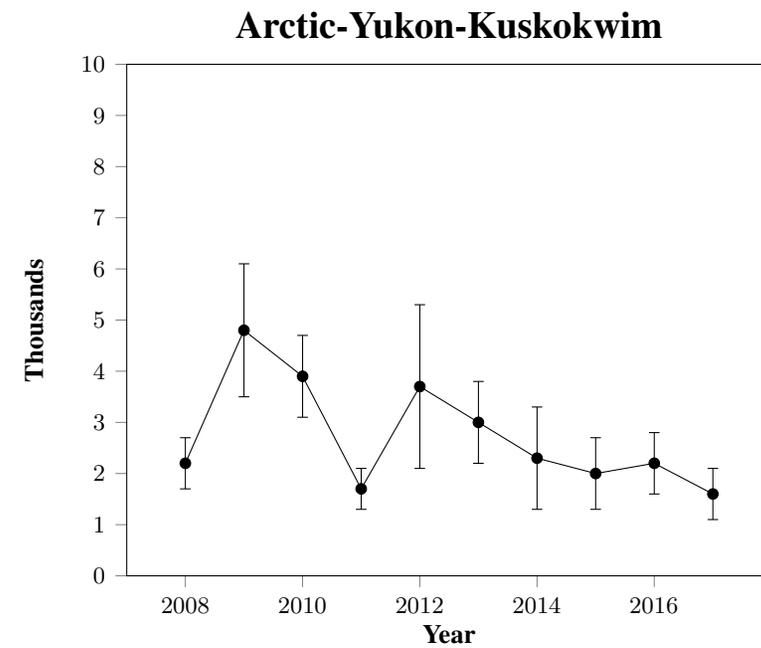
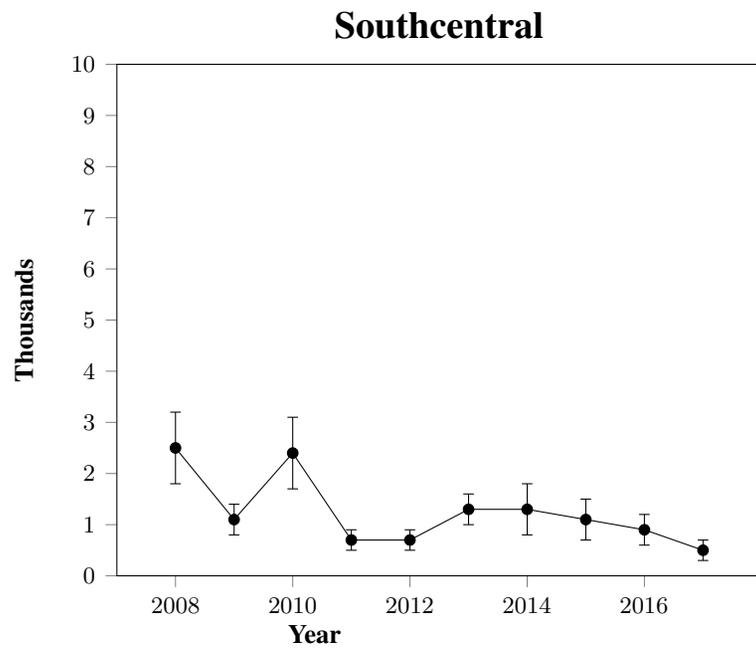
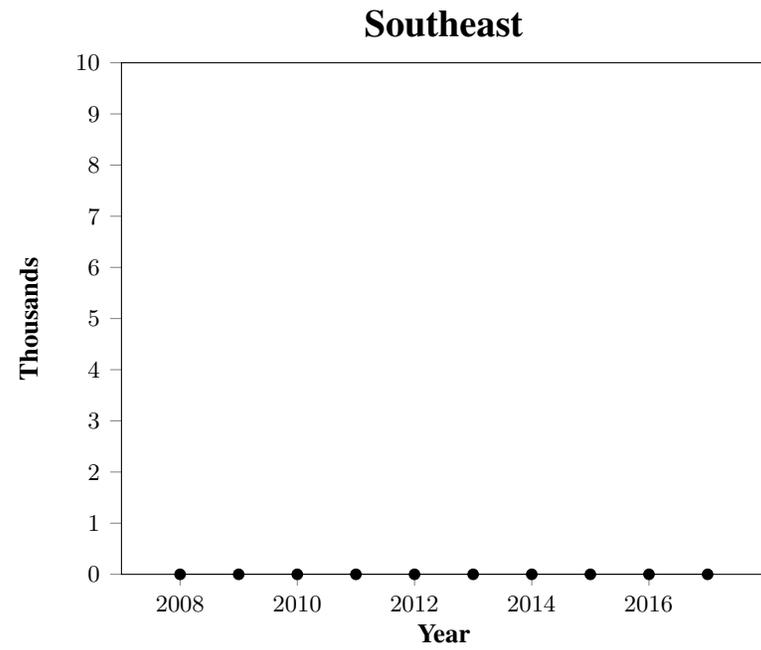
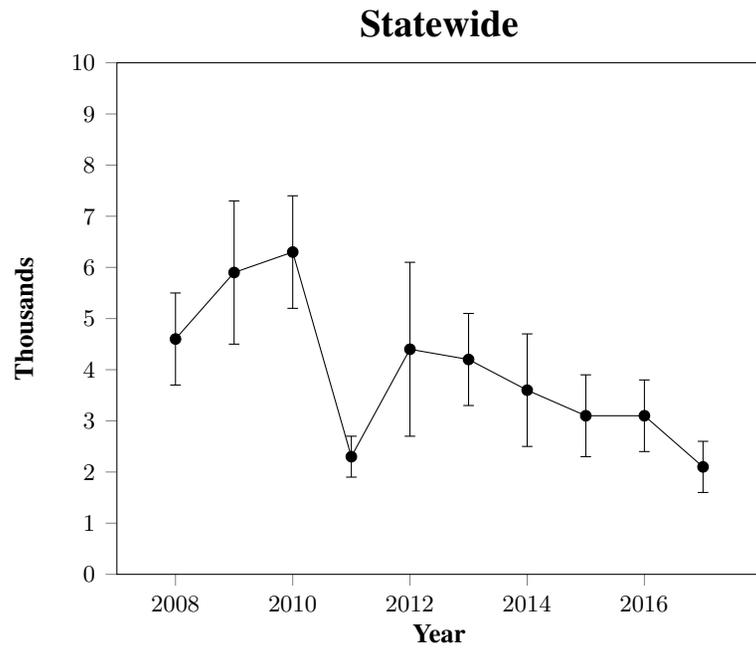


Figure 2.31.—Alaska sport burbot harvest estimates and standard errors, 2008–2017, by region.

Note: Trends in harvest estimates can reflect changes in the abundance of fish, changes in angler effort, fishery management actions that reduce or liberalize harvest, or a combination of these and other factors.

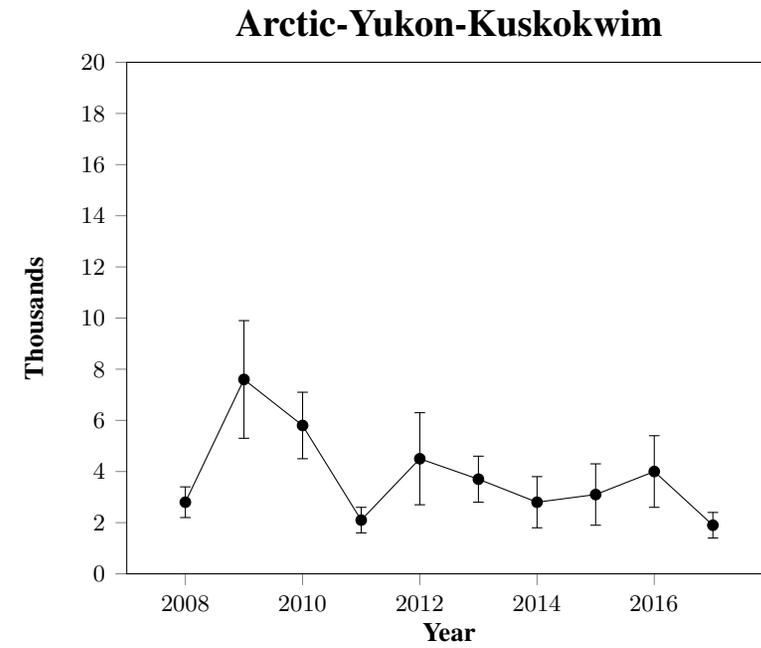
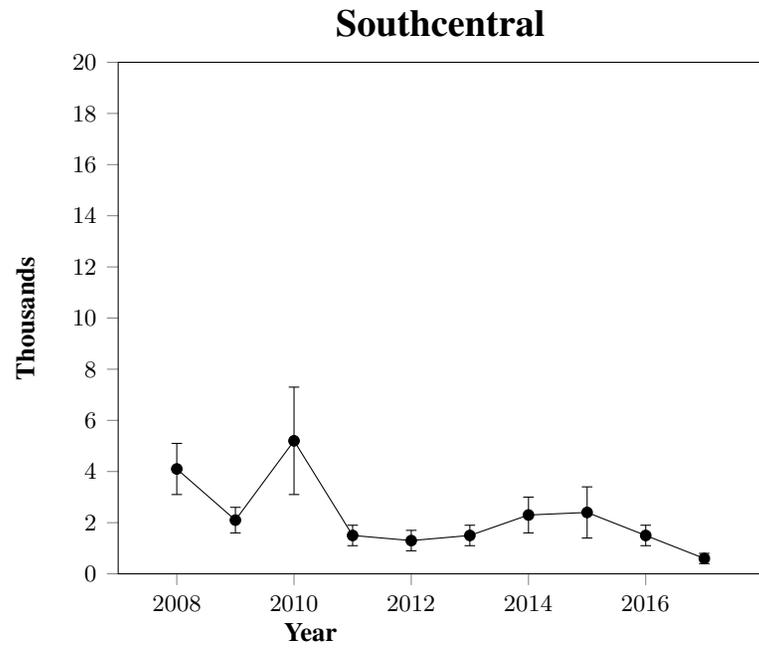
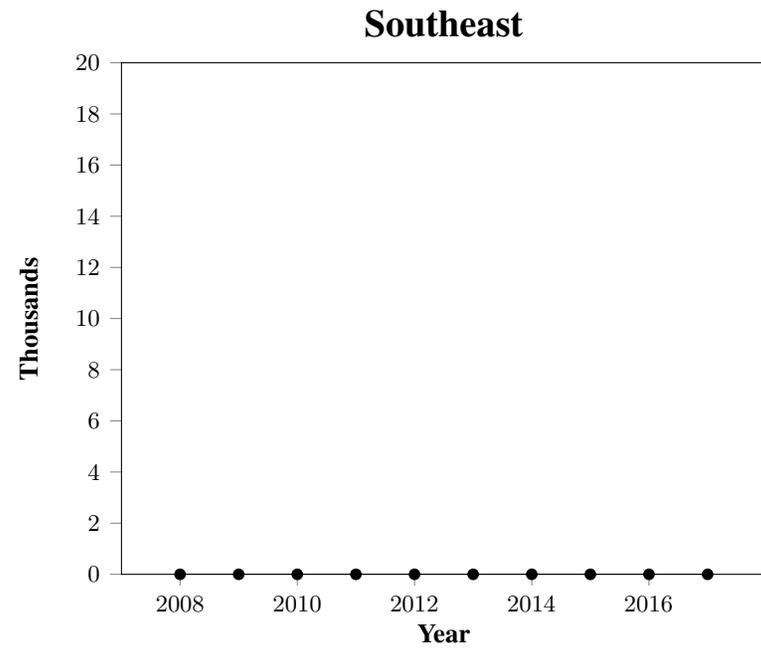
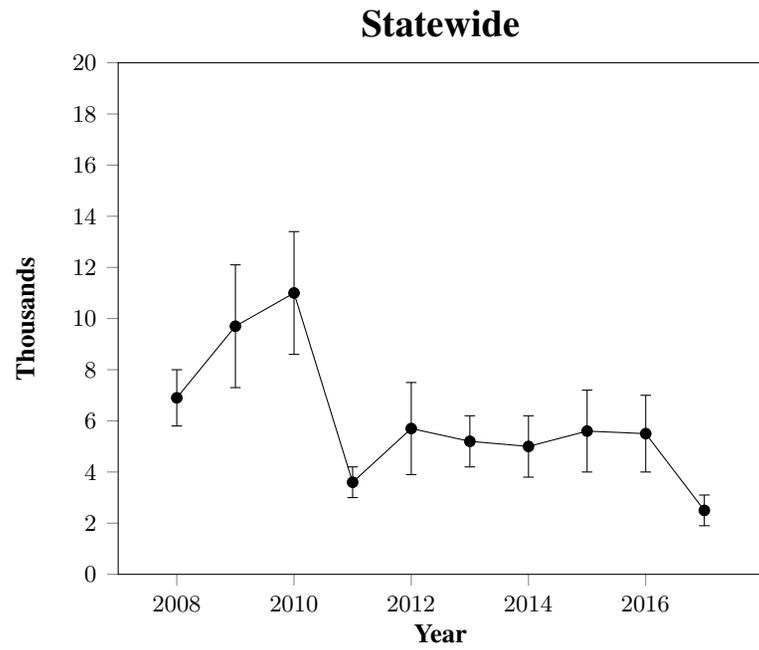


Figure 2.32.—Alaska sport burbot catch estimates and standard errors, 2008–2017, by region.

Note: Trends in catch estimates can reflect changes in the abundance of fish, changes in angler effort, fishery management actions that reduce or liberalize harvest, or a combination of these and other factors.

Table 2.94.—Alaska sport sheefish harvest estimates, 2008–2017, by region and area.

Region/Area fished	Harvest estimates									
	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Southeast										
(A) Ketchikan	0	0	0	0	0	0	0	0	0	0
(B) Prince of Wales Island	0	0	0	0	0	0	0	0	0	0
(C) Kake, Petersburg, Wrangell, Stikine	0	0	0	0	0	0	0	0	0	0
(D) Sitka	0	0	0	0	0	0	0	0	0	0
(E) Juneau	0	0	0	0	0	0	0	0	0	0
(F1) Skagway	0	0	0	0	0	0	0	0	0	0
(F2) Haines	0	0	0	0	0	0	0	0	0	0
(G) Glacier Bay	0	0	0	0	0	0	0	0	0	0
(H) Yakutat	0	0	0	0	0	0	0	0	0	0
Southeast Total	0	0	0	0	0	0	0	0	0	0
Southcentral										
(J) North Gulf Coast/Prince William Sound ^a	0	0	0	0	0	0	0	0	0	0
(K) Knik Arm	0	0	0	0	0	0	0	0	0	0
(L) Anchorage	0	0	0	0	0	0	0	0	0	0
(M) Susitna River drainage ^a	0	0	0	0	0	0	0	0	0	0
(N) West Cook Inlet drainages ^a	0	0	0	0	0	0	0	0	0	0
(PF) Kenai Peninsula freshwater ^a	0	0	0	0	0	0	0	0	0	0
(PS) Cook Inlet saltwater	0	0	0	0	0	0	0	0	0	0
(Q) Kodiak	0	0	0	0	0	0	0	0	0	0
(R) Alaska Peninsula/Aleutian Islands	0	0	0	0	0	0	0	0	0	0
(S) Kvichak River drainage	0	0	0	0	0	0	0	0	0	0
(T) Nushagak, Wood River and Togiak	0	0	0	0	0	0	0	0	0	0
Southcentral Total	0	0	0	0	0	0	0	0	0	0
Arctic-Yukon-Kuskokwim										
(I) Upper Copper River drainage ^a	0	0	0	0	0	0	0	0	0	0
(U) Tanana River drainage	83	23	103	16	7	7	37	0	20	7
(V) Kuskokwim River/Kuskokwim Bay drainages	191	161	67	114	60	74	93	107	8	8
(W) Seward Peninsula/Norton Sound	0	0	0	0	0	0	0	0	0	0
(X) Northwest Alaska	61	946	595	385	104	218	244	1,191	667	46
(Y) Yukon River drainage	462	210	299	118	44	94	95	19	73	120
(Z) North Slope/Brooks Range	0	0	0	0	0	0	0	0	0	0
Arctic-Yukon-Kuskokwim Total	797	1,340	1,064	633	215	393	469	1,317	768	181
Alaska Total	797	1,340	1,064	633	215	393	469	1,317	768	181

^a Area estimates reflect present-day survey area boundaries. Totals may differ from those found in previously published reports due to area boundary changes that have occurred across study years.

Table 2.95.—Alaska sport sheefish harvest estimate **standard errors**, 2008–2017, by region and area.

Region/Area fished	Harvest estimate standard errors									
	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Southeast										
(A) Ketchikan	0	0	0	0	0	0	0	0	0	0
(B) Prince of Wales Island	0	0	0	0	0	0	0	0	0	0
(C) Kake, Petersburg, Wrangell, Stikine	0	0	0	0	0	0	0	0	0	0
(D) Sitka	0	0	0	0	0	0	0	0	0	0
(E) Juneau	0	0	0	0	0	0	0	0	0	0
(F1) Skagway	0	0	0	0	0	0	0	0	0	0
(F2) Haines	0	0	0	0	0	0	0	0	0	0
(G) Glacier Bay	0	0	0	0	0	0	0	0	0	0
(H) Yakutat	0	0	0	0	0	0	0	0	0	0
Southeast Total	0	0	0	0	0	0	0	0	0	0
Southcentral										
(J) North Gulf Coast/Prince William Sound ^a	0	0	0	0	0	0	0	0	0	0
(K) Knik Arm	0	0	0	0	0	0	0	0	0	0
(L) Anchorage	0	0	0	0	0	0	0	0	0	0
(M) Susitna River drainage ^a	0	0	0	0	0	0	0	0	0	0
(N) West Cook Inlet drainages ^a	0	0	0	0	0	0	0	0	0	0
(PF) Kenai Peninsula freshwater ^a	0	0	0	0	0	0	0	0	0	0
(PS) Cook Inlet saltwater	0	0	0	0	0	0	0	0	0	0
(Q) Kodiak	0	0	0	0	0	0	0	0	0	0
(R) Alaska Peninsula/Aleutian Islands	0	0	0	0	0	0	0	0	0	0
(S) Kvichak River drainage	0	0	0	0	0	0	0	0	0	0
(T) Nushagak, Wood River and Togiak	0	0	0	0	0	0	0	0	0	0
Southcentral Total	0	0	0	0	0	0	0	0	0	0
Arctic-Yukon-Kuskokwim										
(I) Upper Copper River drainage ^a	0	0	0	0	0	0	0	0	0	0
(U) Tanana River drainage	42	23	52	16	7	7	38	0	19	7
(V) Kuskokwim River/Kuskokwim Bay drainages	130	136	43	41	30	36	92	47	8	8
(W) Seward Peninsula/Norton Sound	0	0	0	0	0	0	0	0	0	0
(X) Northwest Alaska	62	401	311	169	48	123	126	574	285	29
(Y) Yukon River drainage	235	119	202	64	21	51	48	21	34	60
(Z) North Slope/Brooks Range	0	0	0	0	0	0	0	0	0	0
Arctic-Yukon-Kuskokwim Total	281	441	376	187	61	140	170	574	287	67
Alaska Total	281	441	376	187	61	140	170	574	287	67

^a Area estimates reflect present-day survey area boundaries. Totals may differ from those found in previously published reports due to area boundary changes that have occurred across study years.

Table 2.96.—Alaska sport sheefish catch estimates, 2008–2017, by region and area.

Region/Area fished	Catch estimates									
	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Southeast										
(A) Ketchikan	0	0	0	0	0	0	0	0	0	0
(B) Prince of Wales Island	0	0	0	0	0	0	0	0	0	0
(C) Kake, Petersburg, Wrangell, Stikine	0	0	0	0	0	0	0	0	0	0
(D) Sitka	0	0	0	0	0	0	0	0	0	0
(E) Juneau	0	0	0	0	0	0	0	0	0	0
(F1) Skagway	0	0	0	0	0	0	0	0	0	0
(F2) Haines	0	0	0	0	0	0	0	0	0	0
(G) Glacier Bay	0	0	0	0	0	0	0	0	0	0
(H) Yakutat	0	0	0	0	0	0	0	0	0	0
Southeast Total	0	0	0	0	0	0	0	0	0	0
Southcentral										
(J) North Gulf Coast/Prince William Sound ^a	0	0	0	0	0	0	0	0	0	0
(K) Knik Arm	0	0	0	0	0	0	0	0	0	0
(L) Anchorage	0	0	0	0	0	0	0	0	0	0
(M) Susitna River drainage ^a	0	0	0	0	0	0	0	0	0	0
(N) West Cook Inlet drainages ^a	0	0	0	0	0	0	0	0	0	0
(PF) Kenai Peninsula freshwater ^a	0	0	0	0	0	0	0	0	0	0
(PS) Cook Inlet saltwater	0	0	0	0	0	0	0	0	0	0
(Q) Kodiak	0	0	0	0	0	0	0	0	0	0
(R) Alaska Peninsula/Aleutian Islands	0	0	0	0	0	0	0	0	0	0
(S) Kvichak River drainage	0	0	0	0	0	0	0	0	0	0
(T) Nushagak, Wood River and Togiak	0	0	0	0	0	0	0	0	0	0
Southcentral Total	0	0	0	0	0	0	0	0	0	0
Arctic-Yukon-Kuskokwim										
(I) Upper Copper River drainage ^a	0	0	0	0	0	0	0	0	0	0
(U) Tanana River drainage	195	38	300	158	36	79	186	69	49	7
(V) Kuskokwim River/Kuskokwim Bay drainages	1,046	768	280	1,593	388	358	111	226	469	154
(W) Seward Peninsula/Norton Sound	0	0	0	0	0	0	0	0	0	0
(X) Northwest Alaska	482	5,050	2,928	647	265	569	1,214	2,248	2,033	158
(Y) Yukon River drainage	834	1,717	1,100	378	361	247	470	123	304	270
(Z) North Slope/Brooks Range	0	0	0	0	0	0	0	0	0	0
Arctic-Yukon-Kuskokwim Total	2,557	7,573	4,608	2,776	1,050	1,253	1,981	2,666	2,855	589
Alaska Total	2,557	7,573	4,608	2,776	1,050	1,253	1,981	2,666	2,855	589

^a Area estimates reflect present-day survey area boundaries. Totals may differ from those found in previously published reports due to area boundary changes that have occurred across study years.

Table 2.97.--Alaska sport sheefish catch estimate **standard errors**, 2008–2017, by region and area.

Region/Area fished	Catch estimate standard errors									
	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Southeast										
(A) Ketchikan	0	0	0	0	0	0	0	0	0	0
(B) Prince of Wales Island	0	0	0	0	0	0	0	0	0	0
(C) Kake, Petersburg, Wrangell, Stikine	0	0	0	0	0	0	0	0	0	0
(D) Sitka	0	0	0	0	0	0	0	0	0	0
(E) Juneau	0	0	0	0	0	0	0	0	0	0
(F1) Skagway	0	0	0	0	0	0	0	0	0	0
(F2) Haines	0	0	0	0	0	0	0	0	0	0
(G) Glacier Bay	0	0	0	0	0	0	0	0	0	0
(H) Yakutat	0	0	0	0	0	0	0	0	0	0
Southeast Total	0	0	0	0	0	0	0	0	0	0
Southcentral										
(J) North Gulf Coast/Prince William Sound ^a	0	0	0	0	0	0	0	0	0	0
(K) Knik Arm	0	0	0	0	0	0	0	0	0	0
(L) Anchorage	0	0	0	0	0	0	0	0	0	0
(M) Susitna River drainage ^a	0	0	0	0	0	0	0	0	0	0
(N) West Cook Inlet drainages ^a	0	0	0	0	0	0	0	0	0	0
(PF) Kenai Peninsula freshwater ^a	0	0	0	0	0	0	0	0	0	0
(PS) Cook Inlet saltwater	0	0	0	0	0	0	0	0	0	0
(Q) Kodiak	0	0	0	0	0	0	0	0	0	0
(R) Alaska Peninsula/Aleutian Islands	0	0	0	0	0	0	0	0	0	0
(S) Kvichak River drainage	0	0	0	0	0	0	0	0	0	0
(T) Nushagak, Wood River and Togiak	0	0	0	0	0	0	0	0	0	0
Southcentral Total	0	0	0	0	0	0	0	0	0	0
Arctic-Yukon-Kuskokwim										
(I) Upper Copper River drainage ^a	0	0	0	0	0	0	0	0	0	0
(U) Tanana River drainage	110	28	196	118	23	35	189	54	41	7
(V) Kuskokwim River/Kuskokwim Bay drainages	546	509	142	679	224	146	94	90	284	139
(W) Seward Peninsula/Norton Sound	0	0	0	0	0	0	0	0	0	0
(X) Northwest Alaska	315	2,503	1,823	267	110	240	530	1,011	873	90
(Y) Yukon River drainage	386	1,357	557	215	140	120	211	63	154	151
(Z) North Slope/Brooks Range	0	0	0	0	0	0	0	0	0	0
Arctic-Yukon-Kuskokwim Total	766	2,902	1,941	785	289	307	609	1,015	908	224
Alaska Total	766	2,902	1,941	785	289	307	609	1,015	908	224

^a Area estimates reflect present-day survey area boundaries. Totals may differ from those found in previously published reports due to area boundary changes that have occurred across study years.

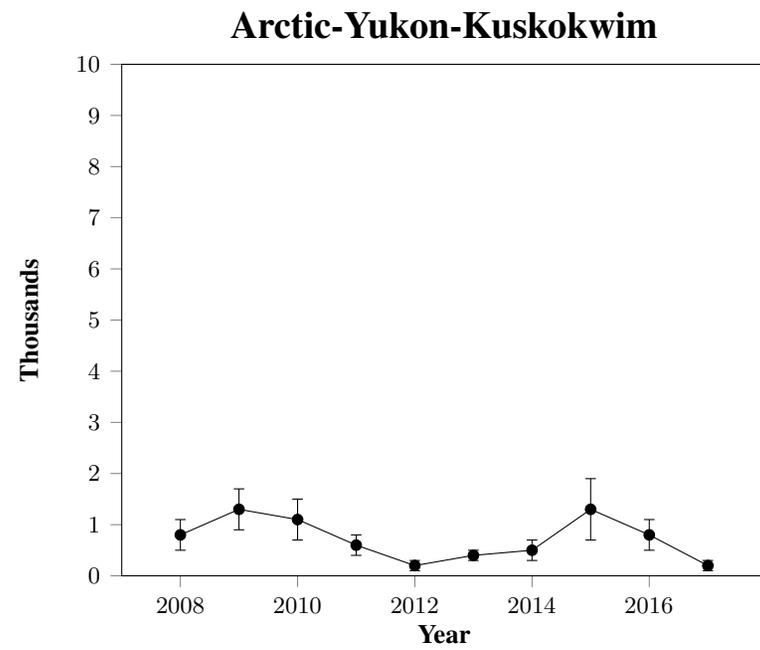
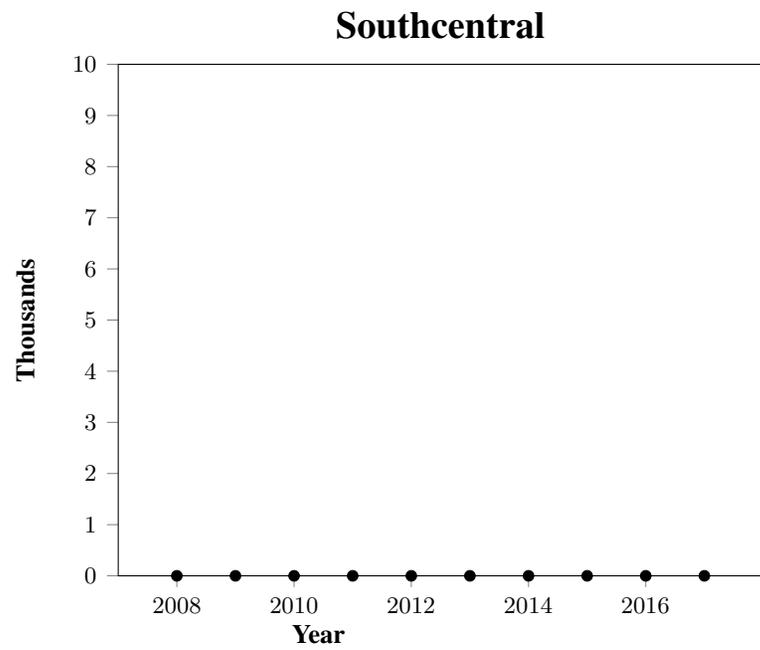
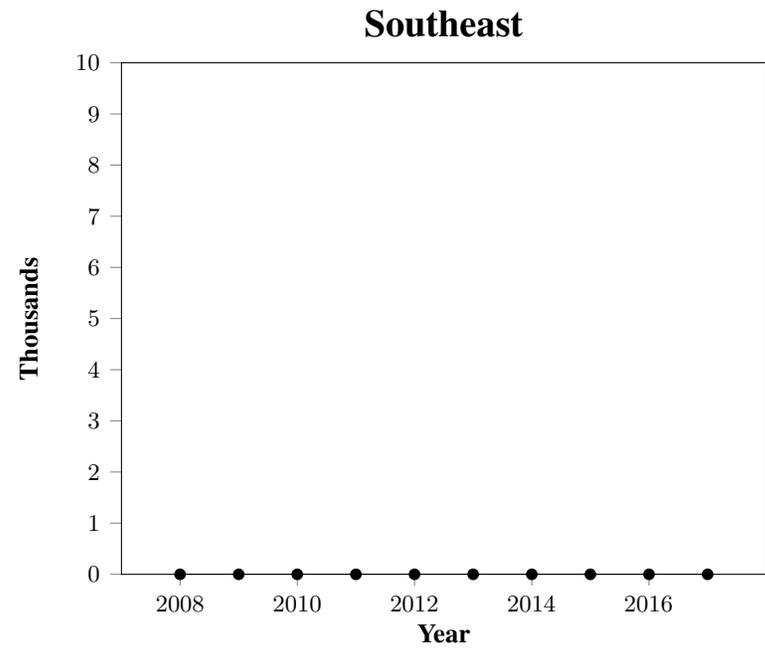
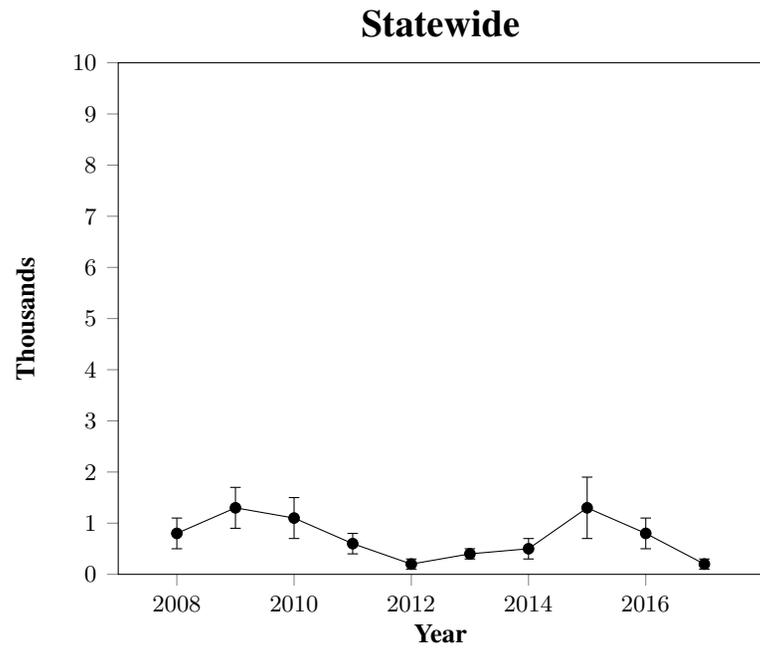


Figure 2.33.—Alaska sport sheefish harvest estimates and standard errors, 2008–2017, by region.

Note: Trends in harvest estimates can reflect changes in the abundance of fish, changes in angler effort, fishery management actions that reduce or liberalize harvest, or a combination of these and other factors.

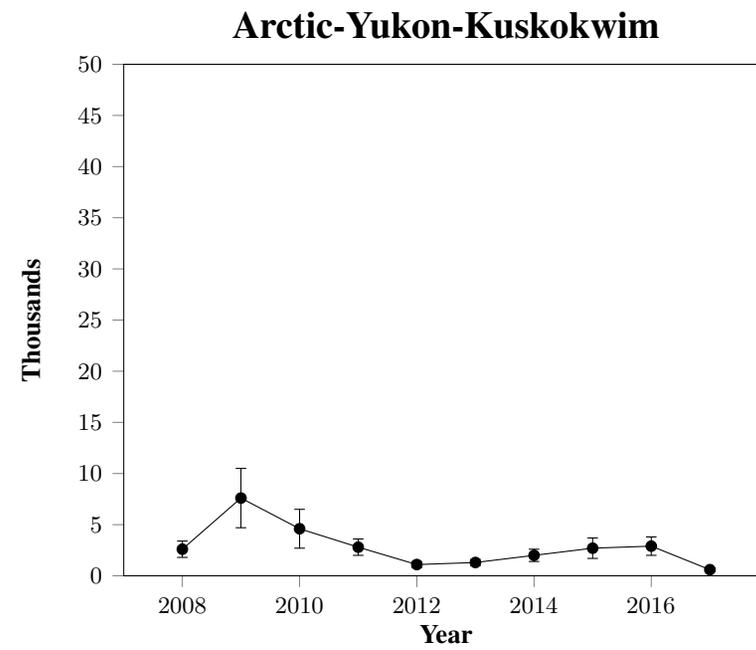
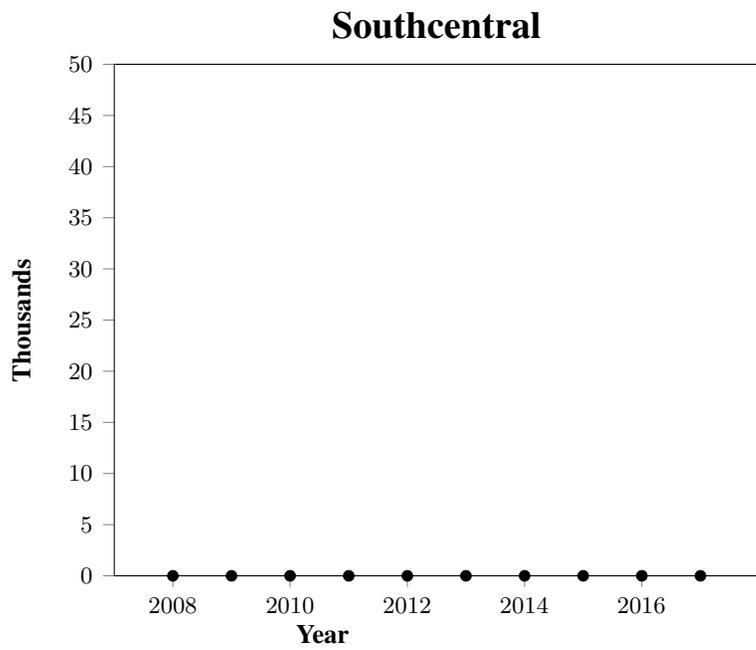
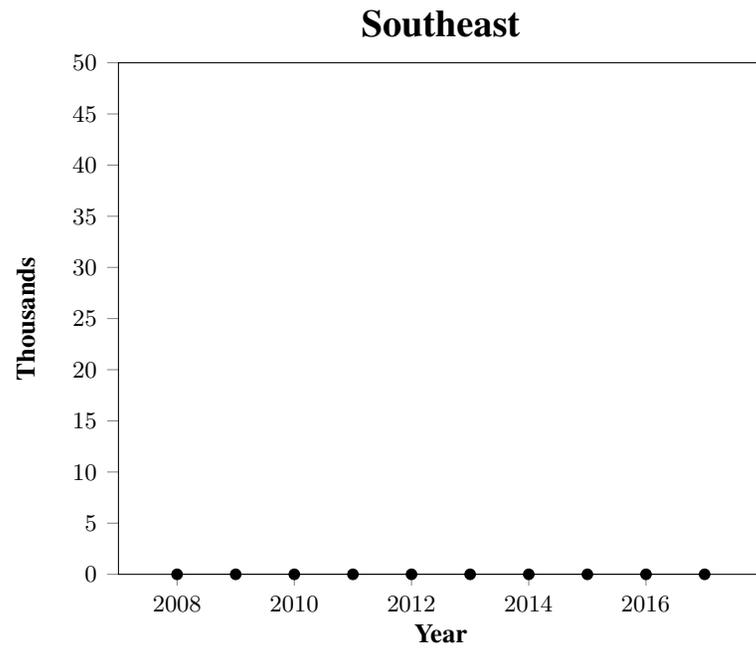
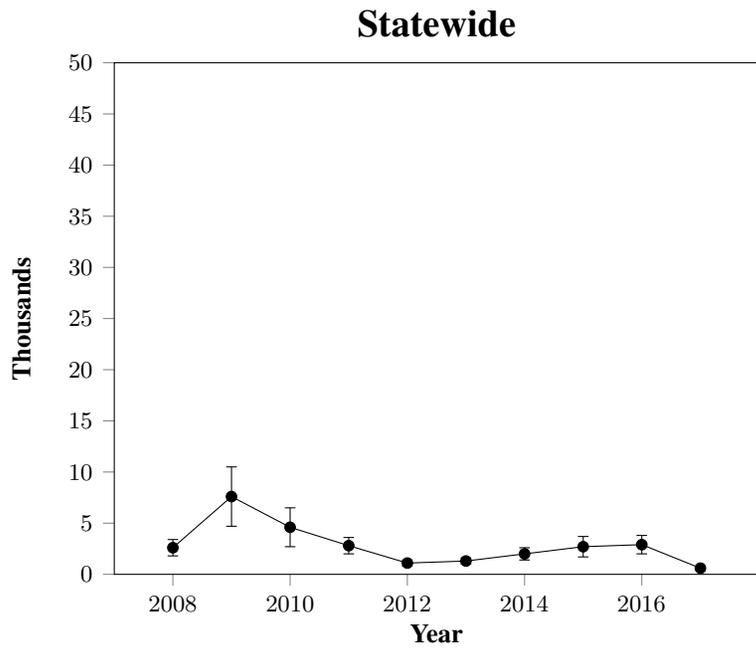


Figure 2.34.—Alaska sport sheefish catch estimates and standard errors, 2008–2017, by region.

Note: Trends in catch estimates can reflect changes in the abundance of fish, changes in angler effort, fishery management actions that reduce or liberalize harvest, or a combination of these and other factors.

Table 2.98.—Alaska sport smelt harvest estimates, 2008–2017, by region and area.

Region/Area fished	Harvest estimates									
	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Southeast										
(A) Ketchikan	0	0	0	0	0	0	0	0	0	0
(B) Prince of Wales Island	0	0	771	0	0	0	0	0	0	0
(C) Kake, Petersburg, Wrangell, Stikine	1,405	2,075	660	161	2,818	1,136	395	2,280	126	131
(D) Sitka	1,196	0	23	385	1,245	0	0	0	0	0
(E) Juneau	357	273	0	1,923	0	8	0	0	0	0
(F1) Skagway	0	0	0	0	0	0	0	0	0	0
(F2) Haines	0	0	0	0	0	0	0	0	0	0
(G) Glacier Bay	323	26	0	805	0	0	0	0	0	0
(H) Yakutat	98	19	15	811	0	0	0	0	0	0
Southeast Total	3,379	2,393	1,469	4,085	4,063	1,144	395	2,280	126	131
Southcentral										
(J) North Gulf Coast/Prince William Sound ^a	2,305	15	39,425	3,347	704	6,777	951	0	1,525	0
(K) Knik Arm	0	0	0	0	0	0	0	0	0	0
(L) Anchorage	20,047	28,953	34,724	34,067	52,676	39,028	9,942	12,446	33,475	7,570
(M) Susitna River drainage ^a	1,832	3,520	4,643	6,763	3,296	1,704	1,213	1,015	0	650
(N) West Cook Inlet drainages ^a	0	880	0	0	0	0	0	0	0	0
(PF) Kenai Peninsula freshwater ^a	2,270	4,796	6,536	5,932	12,037	26,179	11,998	7,033	3,059	0
(PS) Cook Inlet saltwater	277	1,136	399	2,576	2,472	2,052	4,440	909	3,146	1,581
(Q) Kodiak	0	0	178	1,214	0	346	92	0	0	0
(R) Alaska Peninsula/Aleutian Islands	4,496	9,254	324	899	2,107	636	42	0	744	140
(S) Kvichak River drainage	0	0	0	0	0	0	0	0	0	0
(T) Nushagak, Wood River and Togiak	859	10,038	8,078	635	68	0	6,369	1,269	153	0
Southcentral Total	32,086	58,592	94,307	55,433	73,360	76,722	35,047	22,672	42,102	9,941
Arctic-Yukon-Kuskokwim										
(I) Upper Copper River drainage ^a	0	0	0	0	0	0	0	0	0	0
(U) Tanana River drainage	0	0	0	0	0	0	0	0	0	0
(V) Kuskokwim River/Kuskokwim Bay drainages	304	366	0	0	989	170	0	0	0	0
(W) Seward Peninsula/Norton Sound	0	0	0	0	0	0	0	0	524	0
(X) Northwest Alaska	0	81	0	0	132	0	0	0	0	0
(Y) Yukon River drainage	0	0	0	0	0	0	0	0	0	0
(Z) North Slope/Brooks Range	0	0	0	0	0	0	0	0	0	0
Arctic-Yukon-Kuskokwim Total	304	447	0	0	1,121	170	0	0	524	0
Alaska Total	35,769	61,432	95,776	59,518	78,544	78,036	35,442	24,952	42,752	10,072

^a Area estimates reflect present-day survey area boundaries. Totals may differ from those found in previously published reports due to area boundary changes that have occurred across study years.

Table 2.99.—Alaska sport smelt harvest estimate **standard errors**, 2008–2017, by region and area.

Region/Area fished	Harvest estimate standard errors									
	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Southeast										
(A) Ketchikan	0	0	0	0	0	0	0	0	0	0
(B) Prince of Wales Island	0	0	745	0	0	0	0	0	0	0
(C) Kake, Petersburg, Wrangell, Stikine	944	1,477	407	168	1,814	1,192	405	2,132	123	134
(D) Sitka	1,047	0	22	382	1,272	0	0	0	0	0
(E) Juneau	339	202	0	1,425	0	9	0	0	0	0
(F1) Skagway	0	0	0	0	0	0	0	0	0	0
(F2) Haines	0	0	0	0	0	0	0	0	0	0
(G) Glacier Bay	260	26	0	808	0	0	0	0	0	0
(H) Yakutat	99	18	15	811	0	0	0	0	0	0
Southeast Total	1,460	1,497	834	1,863	2,239	1,193	405	2,132	123	134
Southcentral										
(J) North Gulf Coast/Prince William Sound ^a	2,118	15	39,799	2,556	722	4,282	541	0	1,587	0
(K) Knik Arm	0	0	0	0	0	0	0	0	0	0
(L) Anchorage	11,289	10,560	9,856	11,003	19,668	21,169	5,012	4,944	16,652	4,185
(M) Susitna River drainage ^a	1,066	3,396	2,868	5,273	3,209	1,753	1,238	1,071	0	651
(N) West Cook Inlet drainages ^a	0	896	0	0	0	0	0	0	0	0
(PF) Kenai Peninsula freshwater ^a	1,546	3,007	3,316	4,269	6,812	7,069	6,155	2,888	3,028	0
(PS) Cook Inlet saltwater	174	487	128	946	1,988	803	2,560	394	1,844	1,375
(Q) Kodiak	0	0	110	855	0	348	93	0	0	0
(R) Alaska Peninsula/Aleutian Islands	2,926	7,287	325	576	2,155	622	42	0	756	144
(S) Kvichak River drainage	0	0	0	0	0	0	0	0	0	0
(T) Nushagak, Wood River and Togiak	590	6,405	6,262	632	50	0	6,379	1,198	156	0
Southcentral Total	11,975	15,268	41,624	13,247	21,139	23,185	10,540	5,931	17,083	4,516
Arctic-Yukon-Kuskokwim										
(I) Upper Copper River drainage ^a	0	0	0	0	0	0	0	0	0	0
(U) Tanana River drainage	0	0	0	0	0	0	0	0	0	0
(V) Kuskokwim River/Kuskokwim Bay drainages	304	365	0	0	1,001	178	0	0	0	0
(W) Seward Peninsula/Norton Sound	0	0	0	0	0	0	0	0	550	0
(X) Northwest Alaska	0	64	0	0	137	0	0	0	0	0
(Y) Yukon River drainage	0	0	0	0	0	0	0	0	0	0
(Z) North Slope/Brooks Range	0	0	0	0	0	0	0	0	0	0
Arctic-Yukon-Kuskokwim Total	304	372	0	0	1,014	178	0	0	550	0
Alaska Total	12,099	15,355	41,634	13,372	21,240	23,172	10,545	6,288	17,097	4,520

^a Area estimates reflect present-day survey area boundaries. Totals may differ from those found in previously published reports due to area boundary changes that have occurred across study years.

Table 2.100.—Alaska sport smelt catch estimates, 2008–2017, by region and area.

Region/Area fished	Catch estimates									
	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Southeast										
(A) Ketchikan	0	0	0	0	0	0	0	0	0	0
(B) Prince of Wales Island	16	0	771	0	0	0	46	0	0	0
(C) Kake, Petersburg, Wrangell, Stikine	1,994	2,145	710	966	2,818	1,136	395	2,280	193	180
(D) Sitka	1,196	0	23	385	1,245	0	15	0	0	0
(E) Juneau	398	273	0	1,923	0	8	0	0	0	0
(F1) Skagway	0	0	0	0	0	0	14	0	0	0
(F2) Haines	0	0	0	0	0	0	0	0	0	0
(G) Glacier Bay	568	26	0	805	0	0	0	0	0	0
(H) Yakutat	98	19	15	811	0	0	0	76	0	0
Southeast Total	4,270	2,463	1,519	4,890	4,063	1,144	470	2,356	193	180
Southcentral										
(J) North Gulf Coast/Prince William Sound ^a	2,305	147	39,604	3,347	793	6,794	958	38	1,525	42
(K) Knik Arm	0	0	0	0	0	0	2,022	0	0	0
(L) Anchorage	22,381	28,975	34,762	40,492	52,676	39,028	9,942	12,446	33,475	7,570
(M) Susitna River drainage ^a	1,832	3,520	6,956	6,763	3,296	1,704	20,219	1,142	0	650
(N) West Cook Inlet drainages ^a	0	880	0	0	0	0	0	0	0	0
(PF) Kenai Peninsula freshwater ^a	2,270	4,808	7,669	5,956	12,068	29,042	12,578	7,087	3,069	0
(PS) Cook Inlet saltwater	499	2,054	474	4,566	2,872	5,883	6,036	1,365	3,196	1,730
(Q) Kodiak	0	0	178	1,339	0	346	301	0	0	0
(R) Alaska Peninsula/Aleutian Islands	4,824	9,606	1,202	899	2,126	636	42	0	744	140
(S) Kvichak River drainage	0	0	0	0	0	0	0	0	0	0
(T) Nushagak, Wood River and Togiak	859	10,038	8,078	635	146	0	6,369	1,269	153	0
Southcentral Total	34,970	60,028	98,923	63,997	73,977	83,433	58,467	23,347	42,162	10,132
Arctic-Yukon-Kuskokwim										
(I) Upper Copper River drainage ^a	0	0	0	0	0	0	0	0	0	0
(U) Tanana River drainage	0	0	0	0	0	0	0	0	0	0
(V) Kuskokwim River/Kuskokwim Bay drainages	927	542	184	0	989	170	0	7	0	0
(W) Seward Peninsula/Norton Sound	0	0	0	0	0	0	0	0	524	0
(X) Northwest Alaska	0	110	0	0	132	0	0	0	0	0
(Y) Yukon River drainage	0	0	0	0	0	0	0	0	0	0
(Z) North Slope/Brooks Range	0	0	0	0	0	0	0	0	0	0
Arctic-Yukon-Kuskokwim Total	927	652	184	0	1,121	170	0	7	524	0
Alaska Total	40,167	63,143	100,626	68,887	79,161	84,747	58,937	25,710	42,879	10,312

^a Area estimates reflect present-day survey area boundaries. Totals may differ from those found in previously published reports due to area boundary changes that have occurred across study years.

Table 2.101.—Alaska sport smelt catch estimate **standard errors**, 2008–2017, by region and area.

Region/Area fished	Catch estimate standard errors									
	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Southeast										
(A) Ketchikan	0	0	0	0	0	0	0	0	0	0
(B) Prince of Wales Island	16	0	745	0	0	0	45	0	0	0
(C) Kake, Petersburg, Wrangell, Stikine	1,505	1,483	409	779	1,814	1,192	405	2,132	136	143
(D) Sitka	1,047	0	22	382	1,272	0	16	0	0	0
(E) Juneau	345	202	0	1,425	0	9	0	0	0	0
(F1) Skagway	0	0	0	0	0	0	14	0	0	0
(F2) Haines	0	0	0	0	0	0	0	0	0	0
(G) Glacier Bay	380	26	0	808	0	0	0	0	0	0
(H) Yakutat	99	18	15	811	0	0	0	56	0	0
Southeast Total	1,887	1,503	836	2,028	2,239	1,193	407	2,132	136	143
Southcentral										
(J) North Gulf Coast/Prince William Sound ^a	2,118	145	39,795	2,556	729	4,283	541	37	1,587	29
(K) Knik Arm	0	0	0	0	0	0	2,074	0	0	0
(L) Anchorage	11,436	10,560	9,856	12,850	19,668	21,169	5,012	4,944	16,652	4,185
(M) Susitna River drainage ^a	1,066	3,396	3,655	5,273	3,209	1,753	20,637	1,085	0	651
(N) West Cook Inlet drainages ^a	0	896	0	0	0	0	0	0	0	0
(PF) Kenai Peninsula freshwater ^a	1,546	3,007	3,378	4,269	6,811	7,278	6,186	2,888	3,028	0
(PS) Cook Inlet saltwater	285	988	140	2,063	2,011	4,201	3,023	553	1,843	1,382
(Q) Kodiak	0	0	110	899	0	348	219	0	0	0
(R) Alaska Peninsula/Aleutian Islands	2,937	7,297	954	576	2,154	622	42	0	756	144
(S) Kvichak River drainage	0	0	0	0	0	0	0	0	0	0
(T) Nushagak, Wood River and Togiak	590	6,405	6,262	632	88	0	6,379	1,198	156	0
Southcentral Total	12,114	15,285	41,795	14,988	21,149	23,502	23,290	5,943	17,083	4,525
Arctic-Yukon-Kuskokwim										
(I) Upper Copper River drainage ^a	0	0	0	0	0	0	0	0	0	0
(U) Tanana River drainage	0	0	0	0	0	0	0	0	0	0
(V) Kuskokwim River/Kuskokwim Bay drainages	686	399	181	0	1,001	178	0	7	0	0
(W) Seward Peninsula/Norton Sound	0	0	0	0	0	0	0	0	550	0
(X) Northwest Alaska	0	80	0	0	137	0	0	0	0	0
(Y) Yukon River drainage	0	0	0	0	0	0	0	0	0	0
(Z) North Slope/Brooks Range	0	0	0	0	0	0	0	0	0	0
Arctic-Yukon-Kuskokwim Total	686	406	181	0	1,014	178	0	7	550	0
Alaska Total	12,266	15,384	41,810	15,143	21,250	23,485	23,292	6,301	17,095	4,529

^a Area estimates reflect present-day survey area boundaries. Totals may differ from those found in previously published reports due to area boundary changes that have occurred across study years.

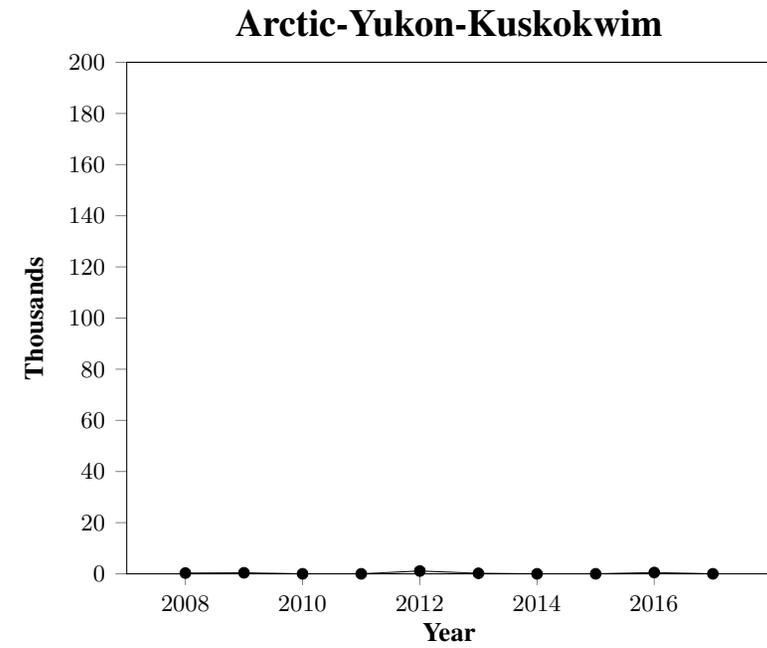
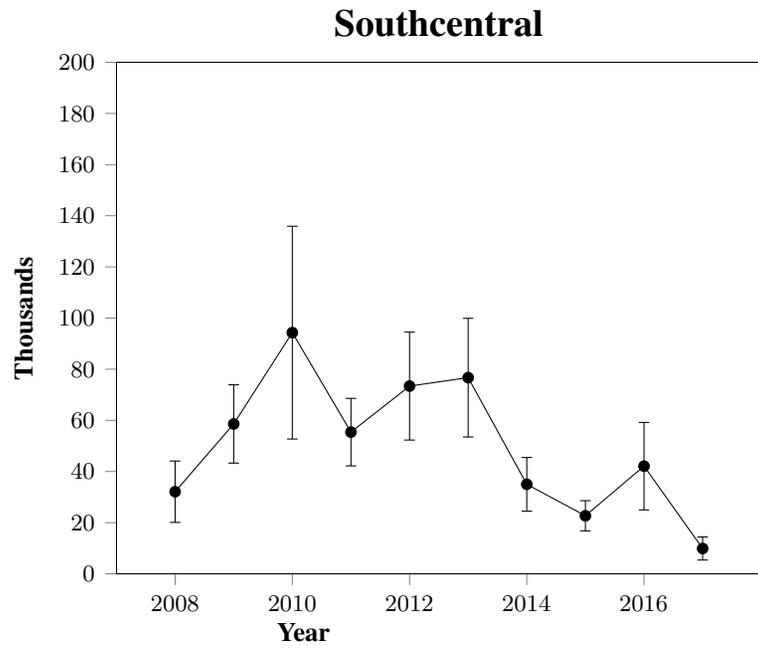
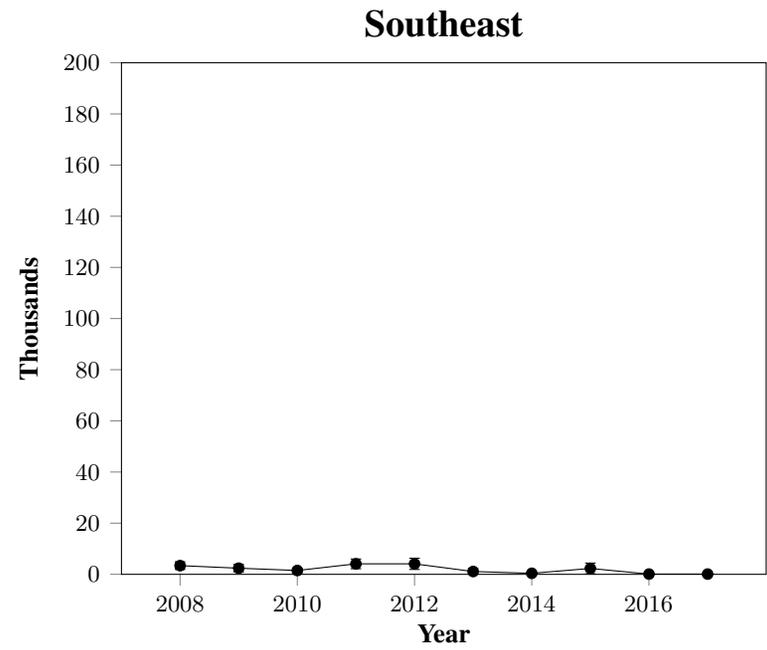
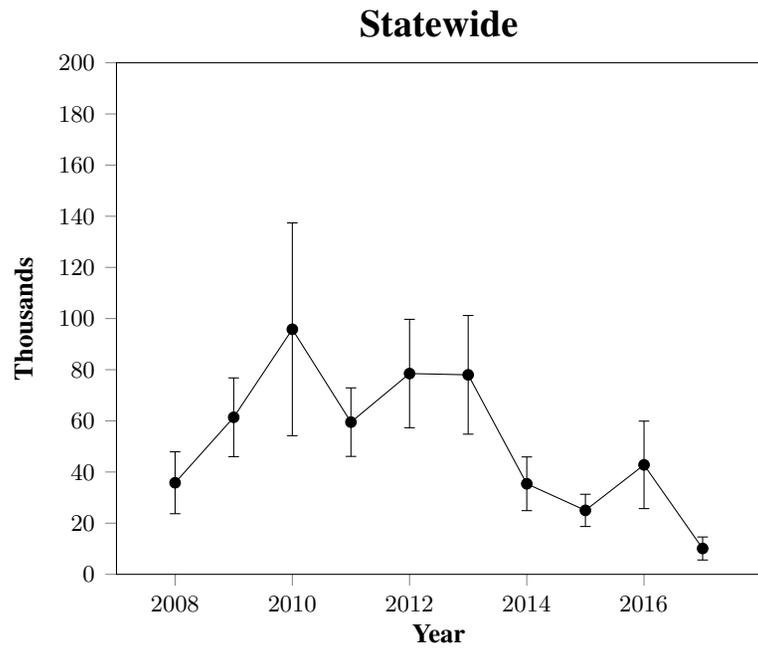


Figure 2.35.—Alaska sport smelt harvest estimates and standard errors, 2008–2017, by region.

Note: Trends in harvest estimates can reflect changes in the abundance of fish, changes in angler effort, fishery management actions that reduce or liberalize harvest, or a combination of these and other factors.

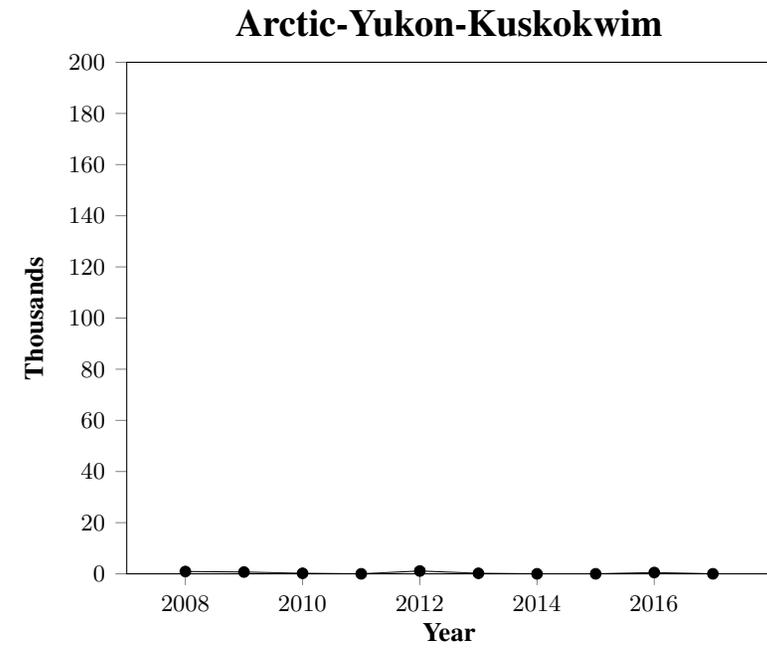
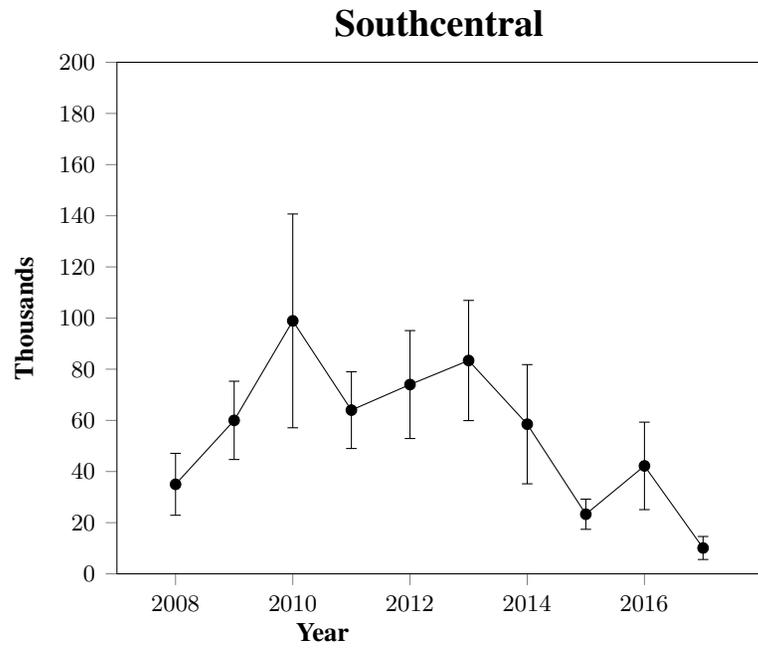
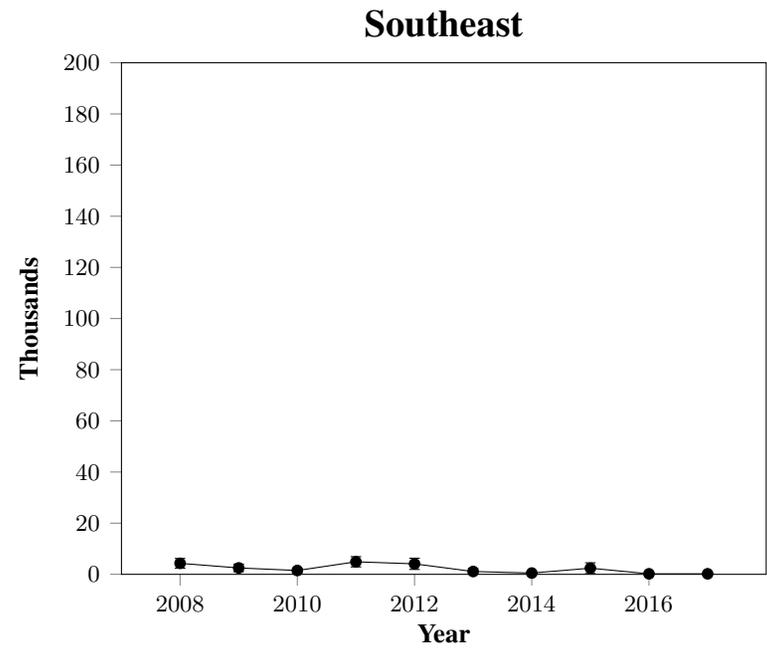
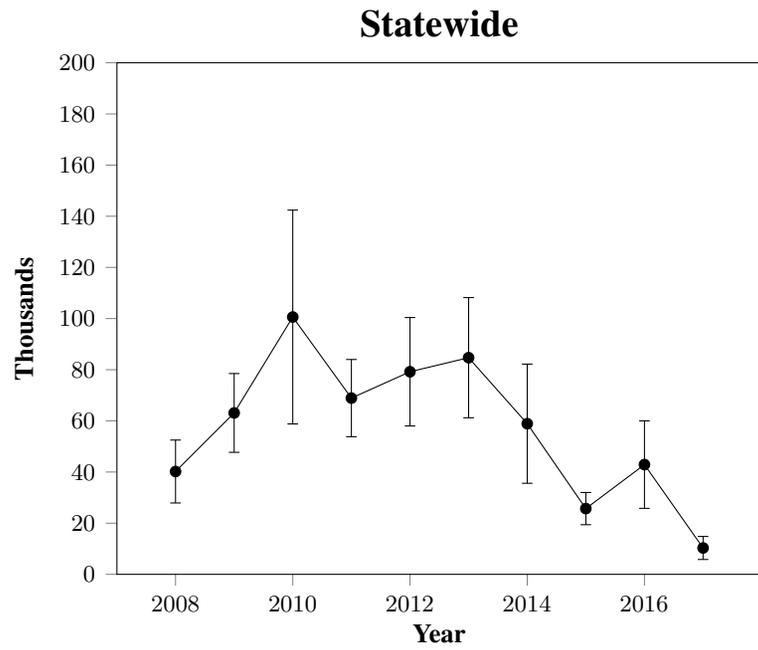


Figure 2.36.—Alaska sport smelt catch estimates and standard errors, 2008–2017, by region.

Note: Trends in catch estimates can reflect changes in the abundance of fish, changes in angler effort, fishery management actions that reduce or liberalize harvest, or a combination of these and other factors.

Table 2.102.—Alaska sport Pacific halibut harvest estimates, 2008–2017, by region and area.

Region/Area fished	Harvest estimates									
	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Southeast										
(A) Ketchikan	19,560	19,942	10,428	6,751	9,988	18,664	14,295	15,930	12,777	11,614
(B) Prince of Wales Island	40,932	22,630	21,413	16,876	20,644	24,748	23,131	24,435	22,854	19,161
(C) Kake, Petersburg, Wrangell, Stikine	19,279	13,058	11,651	8,539	13,386	21,327	16,941	21,381	18,833	14,785
(D) Sitka	37,759	19,178	18,924	18,429	22,305	22,954	26,207	25,333	26,164	25,989
(E) Juneau	20,665	20,275	15,295	14,295	14,140	21,699	22,180	21,183	19,633	17,279
(F1) Skagway	104	13	38	31	52	61	18	0	82	18
(F2) Haines	347	455	717	675	882	1,369	1,153	1,419	793	1,701
(G) Glacier Bay	30,615	23,600	15,632	13,752	16,595	21,215	20,775	26,569	18,014	19,622
(H) Yakutat	4,966	5,075	6,480	4,586	4,613	5,828	5,828	5,529	4,970	5,092
Southeast Total	174,227	124,226	100,578	83,934	102,605	137,865	130,528	141,779	124,120	115,261
Southcentral										
(J) North Gulf Coast/Prince William Sound ^a	95,347	85,845	79,302	82,886	68,337	79,631	73,660	79,803	81,386	58,488
(K) Knik Arm	0	0	0	0	0	0	0	0	0	0
(L) Anchorage	0	0	0	0	0	0	0	0	0	0
(M) Susitna River drainage ^a	0	0	0	0	0	0	0	0	0	0
(N) West Cook Inlet drainages ^a	0	0	0	0	0	0	0	0	0	0
(PF) Kenai Peninsula freshwater ^a	0	0	0	0	0	0	0	0	0	0
(PS) Cook Inlet saltwater	209,082	195,294	192,703	203,528	189,986	207,482	177,305	179,766	177,832	160,462
(Q) Kodiak	33,999	31,590	23,063	21,156	23,145	26,591	25,386	18,326	14,619	17,834
(R) Alaska Peninsula/Aleutian Islands	3,719	3,300	2,352	2,034	3,625	2,025	1,063	778	1,657	409
(S) Kvichak River drainage	106	0	0	33	0	0	0	32	0	0
(T) Nushagak, Wood River and Togiak	0	0	0	0	0	0	0	0	21	0
Southcentral Total	342,253	316,029	297,420	309,637	285,093	315,729	277,414	278,705	275,515	237,193
Arctic-Yukon-Kuskokwim										
(I) Upper Copper River drainage ^a	0	0	0	0	0	0	0	0	0	0
(U) Tanana River drainage	0	0	0	0	0	0	0	0	0	0
(V) Kuskokwim River/Kuskokwim Bay drainages	0	0	0	0	0	0	33	0	0	0
(W) Seward Peninsula/Norton Sound	0	0	0	0	15	0	0	0	0	0
(X) Northwest Alaska	0	0	0	0	0	0	0	0	0	0
(Y) Yukon River drainage	0	0	0	0	0	0	0	0	0	0
(Z) North Slope/Brooks Range	0	0	0	0	0	0	0	0	0	0
Arctic-Yukon-Kuskokwim Total	0	0	0	0	15	0	33	0	0	0
Alaska Total	516,480	440,255	397,998	393,571	387,713	453,594	407,975	420,484	399,635	352,454

^a Area estimates reflect present-day survey area boundaries. Totals may differ from those found in previously published reports due to area boundary changes that have occurred across study years.

Table 2.103.—Alaska sport Pacific halibut harvest estimate **standard errors**, 2008–2017, by region and area.

Region/Area fished	Harvest estimate standard errors									
	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Southeast										
(A) Ketchikan	2,069	2,027	929	662	897	2,148	1,103	1,202	1,241	1,283
(B) Prince of Wales Island	2,431	1,470	1,622	1,385	1,304	2,036	1,504	1,574	1,498	1,267
(C) Kake, Petersburg, Wrangell, Stikine	1,581	1,100	1,157	1,054	1,262	1,838	1,428	1,683	1,762	1,306
(D) Sitka	1,809	1,031	1,125	1,044	1,465	1,293	1,293	1,345	1,365	1,882
(E) Juneau	1,830	1,683	1,473	1,258	1,438	1,893	2,254	1,787	1,697	1,650
(F1) Skagway	59	12	29	30	53	62	19	0	48	18
(F2) Haines	130	164	250	267	265	329	334	427	325	500
(G) Glacier Bay	2,170	1,662	1,208	1,152	1,344	1,587	1,555	1,924	1,549	1,541
(H) Yakutat	599	790	753	669	581	771	828	680	847	695
Southeast Total	4,867	3,806	3,262	2,695	3,289	4,484	3,922	3,954	3,752	3,725
Southcentral										
(J) North Gulf Coast/Prince William Sound ^a	3,977	3,795	2,794	3,552	2,486	2,907	2,891	2,972	2,869	2,447
(K) Knik Arm	0	0	0	0	0	0	0	0	0	0
(L) Anchorage	0	0	0	0	0	0	0	0	0	0
(M) Susitna River drainage ^a	0	0	0	0	0	0	0	0	0	0
(N) West Cook Inlet drainages ^a	0	0	0	0	0	0	0	0	0	0
(PF) Kenai Peninsula freshwater ^a	0	0	0	0	0	0	0	0	0	0
(PS) Cook Inlet saltwater	5,361	5,618	5,911	5,153	4,476	5,648	4,827	5,650	5,312	4,896
(Q) Kodiak	2,177	2,394	1,592	1,657	1,725	1,971	1,776	1,562	1,339	1,555
(R) Alaska Peninsula/Aleutian Islands	848	737	434	455	1,059	448	329	208	744	170
(S) Kvichak River drainage	88	0	0	33	0	0	0	31	0	0
(T) Nushagak, Wood River and Togiak	0	0	0	0	0	0	0	0	20	0
Southcentral Total	6,914	7,033	6,781	6,344	5,250	6,411	5,687	6,445	5,911	5,497
Arctic-Yukon-Kuskokwim										
(I) Upper Copper River drainage ^a	0	0	0	0	0	0	0	0	0	0
(U) Tanana River drainage	0	0	0	0	0	0	0	0	0	0
(V) Kuskokwim River/Kuskokwim Bay drainages	0	0	0	0	0	0	34	0	0	0
(W) Seward Peninsula/Norton Sound	0	0	0	0	15	0	0	0	0	0
(X) Northwest Alaska	0	0	0	0	0	0	0	0	0	0
(Y) Yukon River drainage	0	0	0	0	0	0	0	0	0	0
(Z) North Slope/Brooks Range	0	0	0	0	0	0	0	0	0	0
Arctic-Yukon-Kuskokwim Total	0	0	0	0	15	0	34	0	0	0
Alaska Total	8,098	7,964	7,315	6,858	6,114	7,671	6,758	7,390	6,907	6,593

^a Area estimates reflect present-day survey area boundaries. Totals may differ from those found in previously published reports due to area boundary changes that have occurred across study years.

Table 2.104.—Alaska sport Pacific halibut catch estimates, 2008–2017, by region and area.

Region/Area fished	Catch estimates									
	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Southeast										
(A) Ketchikan	26,053	24,038	14,194	9,208	14,242	26,952	19,334	22,774	18,799	15,782
(B) Prince of Wales Island	61,344	32,385	28,691	25,634	34,267	47,170	39,716	37,502	33,774	29,395
(C) Kake, Petersburg, Wrangell, Stikine	29,731	21,594	18,954	15,317	25,881	43,435	28,371	30,881	29,388	22,326
(D) Sitka	50,688	25,763	27,360	32,464	34,335	37,551	40,576	37,622	39,423	41,329
(E) Juneau	31,850	35,720	23,455	20,705	20,423	36,301	36,894	33,669	28,885	29,414
(F1) Skagway	150	34	67	47	103	460	89	35	161	48
(F2) Haines	396	606	1,536	1,259	1,100	2,392	2,424	1,652	987	2,370
(G) Glacier Bay	61,655	50,970	29,980	29,901	38,205	44,074	38,476	49,112	35,290	32,262
(H) Yakutat	5,836	6,712	8,613	6,354	5,838	7,601	8,934	8,342	7,784	6,497
Southeast Total	267,703	197,822	152,850	140,889	174,394	245,936	214,814	221,589	194,491	179,423
Southcentral										
(J) North Gulf Coast/Prince William Sound ^a	151,367	128,873	118,769	134,827	111,066	114,455	112,171	116,780	123,995	85,934
(K) Knik Arm	0	0	0	0	0	0	0	0	0	0
(L) Anchorage	0	0	0	0	0	0	0	0	0	0
(M) Susitna River drainage ^a	0	0	0	0	0	0	0	0	0	0
(N) West Cook Inlet drainages ^a	0	0	0	0	0	0	0	0	0	0
(PF) Kenai Peninsula freshwater ^a	0	0	0	0	0	0	0	0	0	0
(PS) Cook Inlet saltwater	384,678	374,627	386,661	384,561	381,976	371,476	289,513	321,760	298,063	258,159
(Q) Kodiak	62,591	53,756	39,910	39,856	38,032	42,462	40,488	30,459	24,082	27,510
(R) Alaska Peninsula/Aleutian Islands	8,788	6,149	3,679	4,564	5,884	2,823	1,496	1,046	2,606	574
(S) Kvichak River drainage	293	0	0	33	0	0	0	32	0	0
(T) Nushagak, Wood River and Togiak	0	0	0	0	0	0	0	0	21	0
Southcentral Total	607,717	563,405	549,019	563,841	536,958	531,216	443,668	470,077	448,767	372,177
Arctic-Yukon-Kuskokwim										
(I) Upper Copper River drainage ^a	0	0	0	0	0	0	0	0	0	0
(U) Tanana River drainage	0	0	0	0	0	0	0	0	0	0
(V) Kuskokwim River/Kuskokwim Bay drainages	0	0	0	0	0	0	33	0	0	0
(W) Seward Peninsula/Norton Sound	0	0	0	0	15	0	0	0	0	0
(X) Northwest Alaska	0	0	0	0	0	0	0	0	0	0
(Y) Yukon River drainage	0	0	0	0	0	0	0	0	0	0
(Z) North Slope/Brooks Range	0	0	0	0	0	0	0	0	0	0
Arctic-Yukon-Kuskokwim Total	0	0	0	0	15	0	33	0	0	0
Alaska Total	875,420	761,227	701,869	704,730	711,367	777,152	658,515	691,666	643,258	551,600

^a Area estimates reflect present-day survey area boundaries. Totals may differ from those found in previously published reports due to area boundary changes that have occurred across study years.

Table 2.105.—Alaska sport Pacific halibut catch estimate **standard errors**, 2008–2017, by region and area.

Region/Area fished	Catch estimate standard errors									
	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Southeast										
(A) Ketchikan	2,596	2,292	1,329	971	1,266	2,940	1,786	1,901	1,902	1,613
(B) Prince of Wales Island	4,102	2,216	2,497	2,105	2,315	4,129	2,823	2,646	2,703	2,054
(C) Kake, Petersburg, Wrangell, Stikine	2,557	2,125	2,067	1,940	3,009	5,444	2,821	2,812	3,212	2,056
(D) Sitka	2,668	1,410	2,099	2,631	2,293	2,367	2,348	2,143	2,169	3,158
(E) Juneau	2,995	4,643	3,517	2,019	2,179	3,552	3,610	3,203	3,306	3,346
(F1) Skagway	92	25	35	34	105	465	80	25	109	34
(F2) Haines	143	240	719	610	345	612	690	499	356	746
(G) Glacier Bay	5,065	5,099	2,607	3,218	5,436	4,317	3,494	3,782	3,230	2,704
(H) Yakutat	695	981	1,110	1,204	734	1,026	1,469	1,165	1,217	942
Southeast Total	8,312	7,952	6,194	5,483	7,342	9,505	7,090	6,693	6,808	6,376
Southcentral										
(J) North Gulf Coast/Prince William Sound ^a	6,511	6,018	4,844	7,323	4,811	4,783	5,178	4,705	5,364	4,801
(K) Knik Arm	0	0	0	0	0	0	0	0	0	0
(L) Anchorage	0	0	0	0	0	0	0	0	0	0
(M) Susitna River drainage ^a	0	0	0	0	0	0	0	0	0	0
(N) West Cook Inlet drainages ^a	0	0	0	0	0	0	0	0	0	0
(PF) Kenai Peninsula freshwater ^a	0	0	0	0	0	0	0	0	0	0
(PS) Cook Inlet saltwater	11,784	12,050	17,411	11,324	11,447	11,747	8,171	17,471	10,287	10,825
(Q) Kodiak	4,659	4,259	4,219	3,773	3,133	3,343	3,741	3,806	2,480	2,575
(R) Alaska Peninsula/Aleutian Islands	3,076	1,303	736	1,187	1,564	676	493	300	1,235	244
(S) Kvichak River drainage	260	0	0	33	0	0	0	31	0	0
(T) Nushagak, Wood River and Togiak	0	0	0	0	0	0	0	0	20	0
Southcentral Total	14,277	13,955	18,912	13,789	12,462	12,844	10,433	18,294	11,621	11,927
Arctic-Yukon-Kuskokwim										
(I) Upper Copper River drainage ^a	0	0	0	0	0	0	0	0	0	0
(U) Tanana River drainage	0	0	0	0	0	0	0	0	0	0
(V) Kuskokwim River/Kuskokwim Bay drainages	0	0	0	0	0	0	34	0	0	0
(W) Seward Peninsula/Norton Sound	0	0	0	0	15	0	0	0	0	0
(X) Northwest Alaska	0	0	0	0	0	0	0	0	0	0
(Y) Yukon River drainage	0	0	0	0	0	0	0	0	0	0
(Z) North Slope/Brooks Range	0	0	0	0	0	0	0	0	0	0
Arctic-Yukon-Kuskokwim Total	0	0	0	0	15	0	34	0	0	0
Alaska Total	16,283	15,812	19,405	14,928	14,366	15,725	12,263	19,298	13,498	13,539

^a Area estimates reflect present-day survey area boundaries. Totals may differ from those found in previously published reports due to area boundary changes that have occurred across study years.

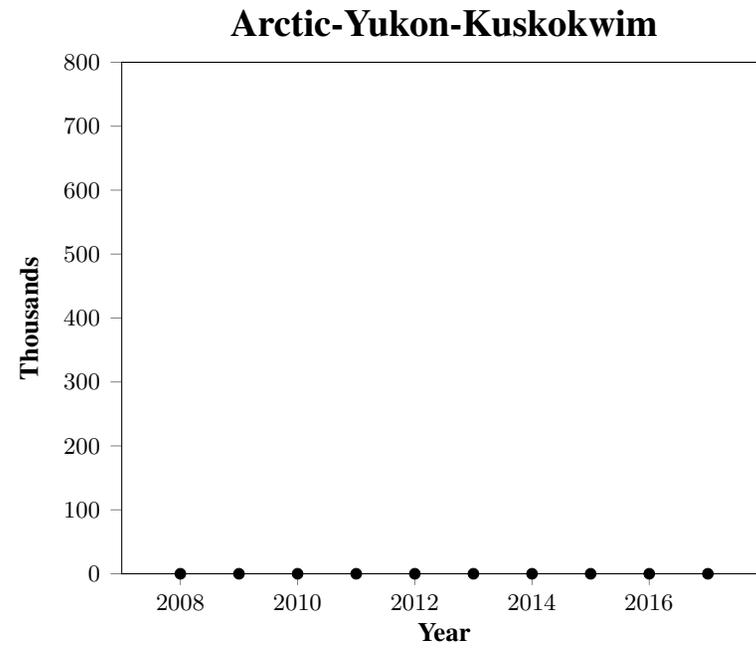
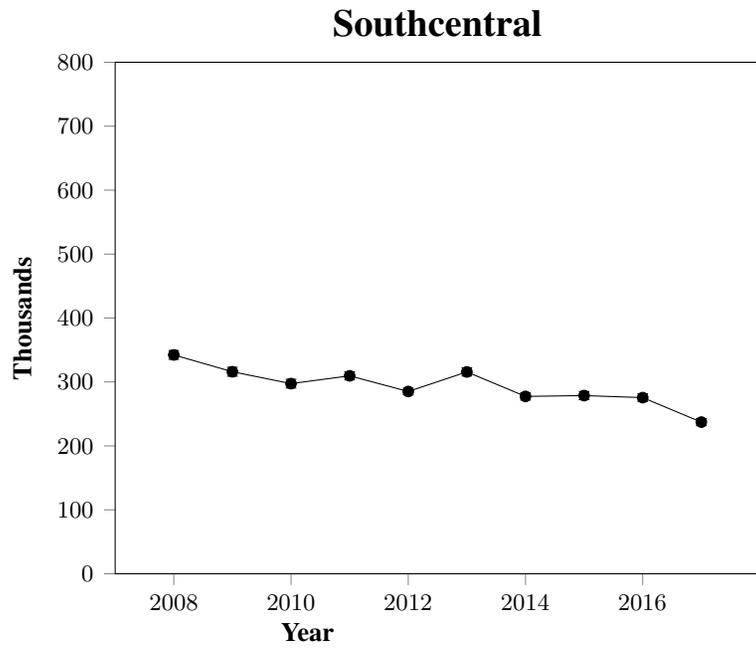
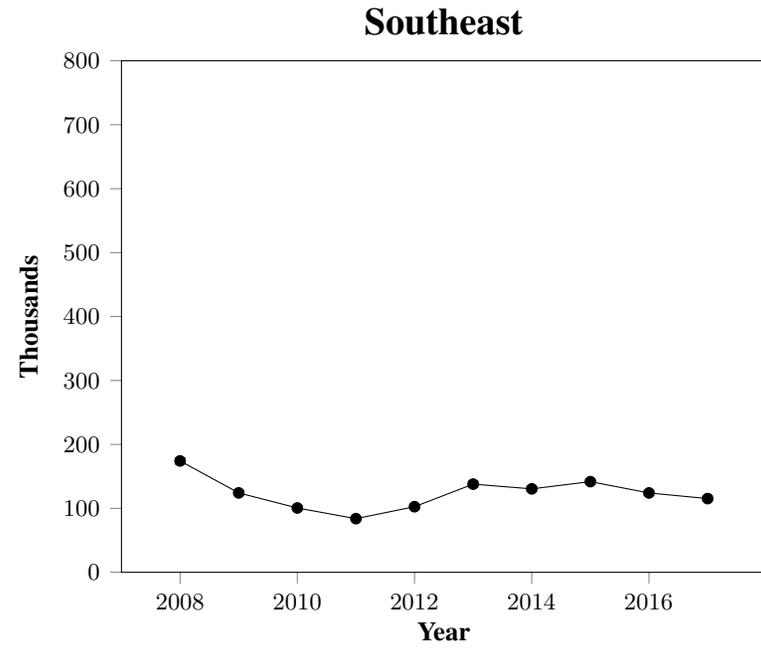
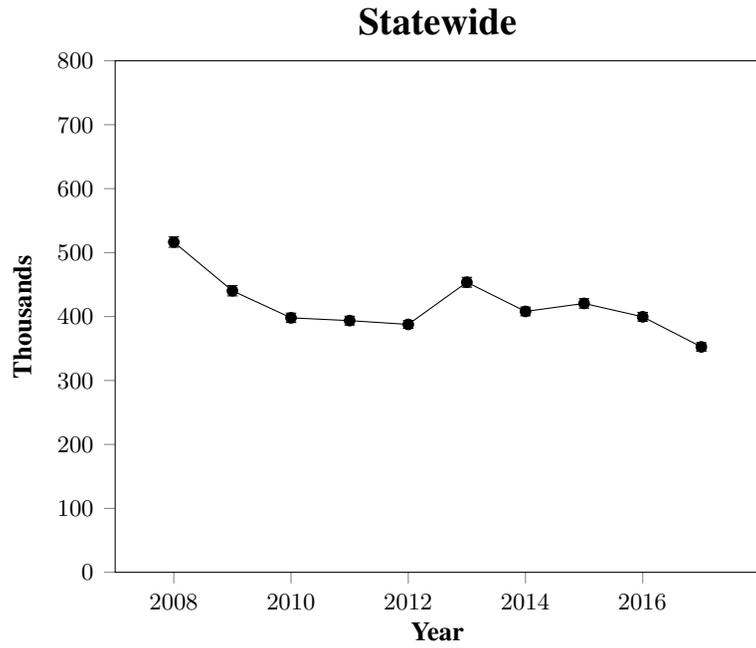


Figure 2.37.—Alaska sport Pacific halibut harvest estimates and standard errors, 2008–2017, by region.

Note: Trends in harvest estimates can reflect changes in the abundance of fish, changes in angler effort, fishery management actions that reduce or liberalize harvest, or a combination of these and other factors.

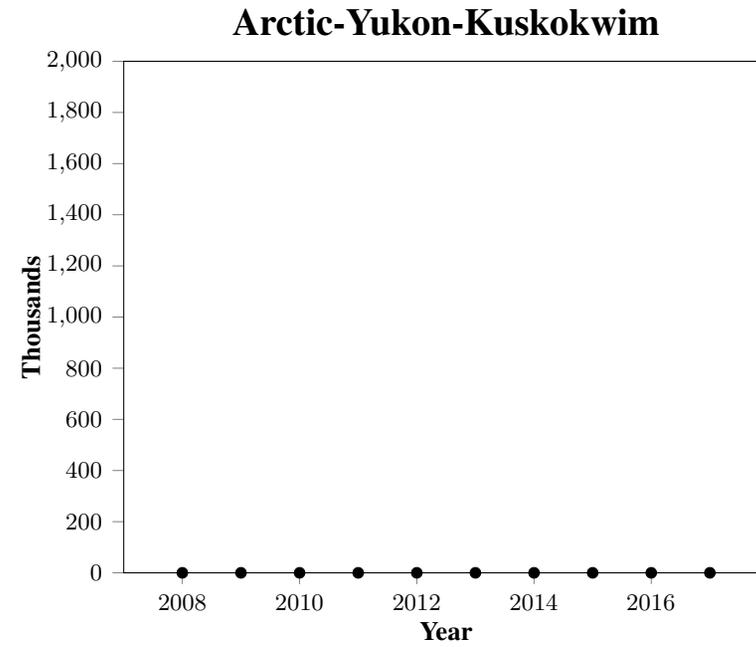
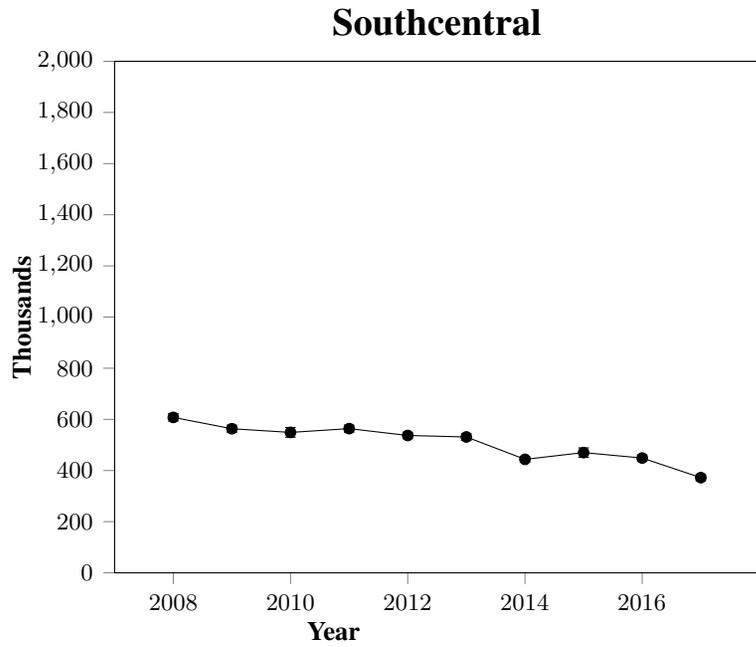
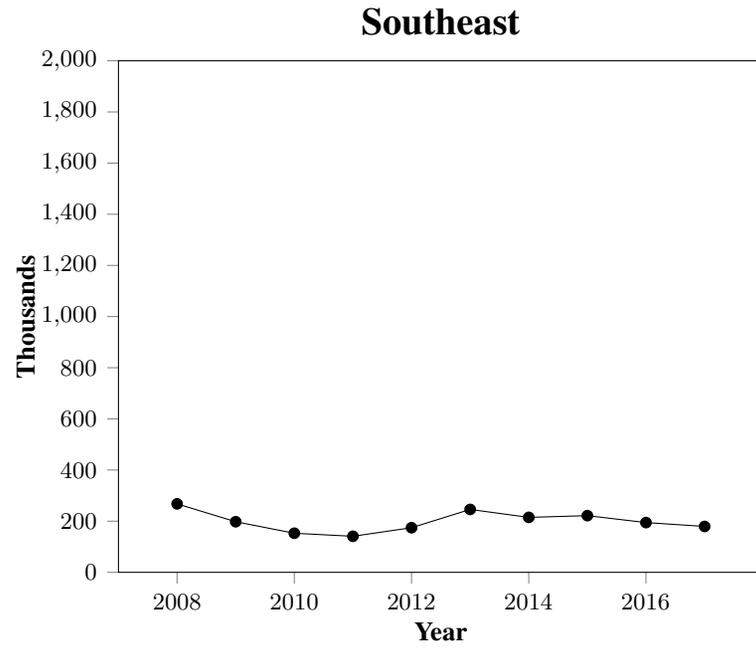
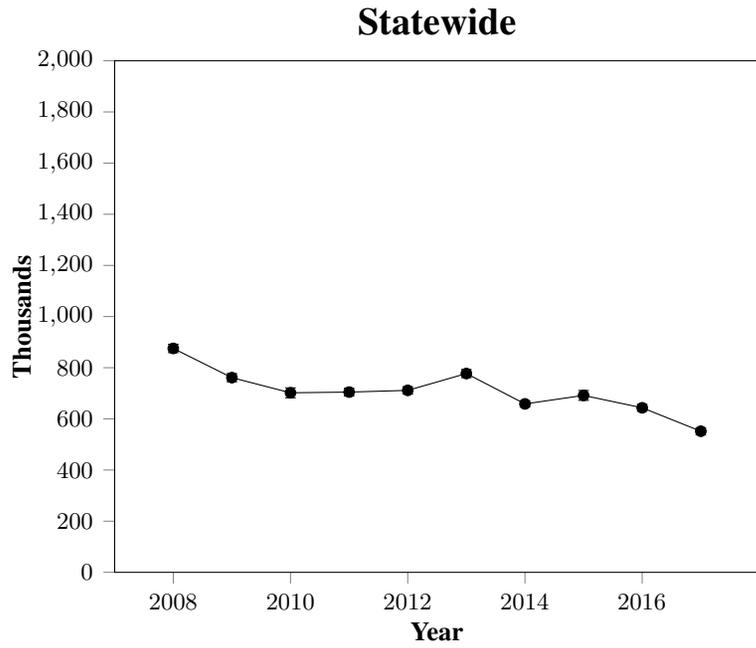


Figure 2.38.—Alaska sport Pacific halibut catch estimates and standard errors, 2008–2017, by region.

Note: Trends in catch estimates can reflect changes in the abundance of fish, changes in angler effort, fishery management actions that reduce or liberalize harvest, or a combination of these and other factors.

Table 2.106.—Alaska sport rockfish harvest estimates, 2008–2017, by region and area.

Region/Area fished	Harvest estimates									
	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Southeast										
(A) Ketchikan	14,763	16,742	12,552	9,233	11,673	17,232	23,573	20,786	18,264	13,070
(B) Prince of Wales Island	30,891	23,767	25,254	28,637	26,902	27,334	32,010	37,181	31,373	31,401
(C) Kake, Petersburg, Wrangell, Stikine	5,329	4,623	3,111	3,786	6,196	4,471	7,893	6,170	10,361	5,892
(D) Sitka	53,414	30,601	44,381	51,514	62,239	60,322	83,780	86,099	71,214	60,601
(E) Juneau	6,344	9,683	10,005	5,309	9,225	12,502	21,978	16,443	20,065	16,772
(F1) Skagway	28	0	0	0	0	27	19	0	81	18
(F2) Haines	0	140	14	29	68	250	322	203	415	245
(G) Glacier Bay	5,592	5,823	6,525	7,939	8,485	13,253	16,727	15,348	16,933	16,058
(H) Yakutat	2,636	2,372	3,723	2,710	3,634	4,518	6,796	4,586	5,141	5,870
Southeast Total	118,997	93,751	105,565	109,157	128,422	139,909	193,098	186,816	173,847	149,927
Southcentral										
(J) North Gulf Coast/Prince William Sound ^a	79,246	82,461	79,372	69,525	62,109	76,970	88,009	90,767	113,324	72,667
(K) Knik Arm	0	0	0	0	0	0	0	0	0	0
(L) Anchorage	0	0	0	0	0	0	0	0	0	0
(M) Susitna River drainage ^a	0	0	0	0	0	0	0	0	0	0
(N) West Cook Inlet drainages ^a	0	0	0	0	0	0	0	0	0	0
(PF) Kenai Peninsula freshwater ^a	0	0	0	0	0	0	0	0	0	0
(PS) Cook Inlet saltwater	11,258	16,296	18,444	16,847	18,086	18,093	22,622	26,218	32,905	32,254
(Q) Kodiak	15,596	15,937	19,897	15,539	18,511	19,861	29,733	25,786	26,339	23,448
(R) Alaska Peninsula/Aleutian Islands	1,288	649	763	368	2,455	1,252	1,444	2,086	1,023	339
(S) Kvichak River drainage	0	0	0	0	0	0	0	0	0	0
(T) Nushagak, Wood River and Togiak	0	0	0	0	0	0	0	0	0	0
Southcentral Total	107,388	115,343	118,476	102,279	101,161	116,176	141,808	144,857	173,591	128,708
Arctic-Yukon-Kuskokwim										
(I) Upper Copper River drainage ^a	0	0	0	0	0	0	0	0	0	0
(U) Tanana River drainage	0	0	0	0	0	0	0	0	0	0
(V) Kuskokwim River/Kuskokwim Bay drainages	0	0	0	0	0	0	0	0	0	0
(W) Seward Peninsula/Norton Sound	0	0	0	0	0	0	0	0	0	0
(X) Northwest Alaska	0	0	0	0	0	0	0	0	0	0
(Y) Yukon River drainage	0	0	0	0	0	0	0	0	0	0
(Z) North Slope/Brooks Range	0	0	0	0	0	0	0	0	0	0
Arctic-Yukon-Kuskokwim Total	0	0	0	0	0	0	0	0	0	0
Alaska Total	226,385	209,094	224,041	211,436	229,583	256,085	334,906	331,673	347,438	278,635

Note: Estimates include all rockfish species combined.

^a Area estimates reflect present-day survey area boundaries. Totals may differ from those found in previously published reports due to area boundary changes that have occurred across study years.

Table 2.107.—Alaska sport rockfish harvest estimate **standard errors**, 2008–2017, by region and area.

Region/Area fished	Harvest estimate standard errors									
	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Southeast										
(A) Ketchikan	1,416	2,083	1,373	1,117	1,466	2,813	2,370	1,794	1,615	1,320
(B) Prince of Wales Island	2,464	1,867	2,805	3,112	2,320	2,394	2,838	3,222	2,927	2,981
(C) Kake, Petersburg, Wrangell, Stikine	1,114	1,084	663	907	1,041	875	1,815	1,504	1,795	1,038
(D) Sitka	2,949	2,010	3,124	3,700	3,925	3,900	5,409	5,747	4,007	4,211
(E) Juneau	910	1,430	2,015	724	1,533	1,814	3,423	2,147	2,526	2,371
(F1) Skagway	29	0	0	0	0	29	19	0	56	18
(F2) Haines	0	99	14	21	48	119	170	94	415	112
(G) Glacier Bay	809	657	874	1,252	1,200	1,896	2,184	1,946	2,123	2,574
(H) Yakutat	513	520	621	560	762	922	1,140	873	873	1,043
Southeast Total	4,421	3,787	5,087	5,272	5,194	6,022	8,016	7,401	6,286	6,293
Southcentral										
(J) North Gulf Coast/Prince William Sound ^a	5,827	3,954	3,637	3,417	2,830	3,287	4,001	3,750	4,573	3,386
(K) Knik Arm	0	0	0	0	0	0	0	0	0	0
(L) Anchorage	0	0	0	0	0	0	0	0	0	0
(M) Susitna River drainage ^a	0	0	0	0	0	0	0	0	0	0
(N) West Cook Inlet drainages ^a	0	0	0	0	0	0	0	0	0	0
(PF) Kenai Peninsula freshwater ^a	0	0	0	0	0	0	0	0	0	0
(PS) Cook Inlet saltwater	1,467	1,528	1,596	1,543	1,420	1,384	1,767	2,043	2,217	2,508
(Q) Kodiak	1,863	1,835	1,989	1,540	1,779	1,827	2,568	2,801	2,928	2,306
(R) Alaska Peninsula/Aleutian Islands	417	259	300	189	1,830	518	599	1,136	666	227
(S) Kvichak River drainage	0	0	0	0	0	0	0	0	0	0
(T) Nushagak, Wood River and Togiak	0	0	0	0	0	0	0	0	0	0
Southcentral Total	6,269	4,629	4,455	4,103	4,055	4,045	5,085	5,257	5,833	4,616
Arctic-Yukon-Kuskokwim										
(I) Upper Copper River drainage ^a	0	0	0	0	0	0	0	0	0	0
(U) Tanana River drainage	0	0	0	0	0	0	0	0	0	0
(V) Kuskokwim River/Kuskokwim Bay drainages	0	0	0	0	0	0	0	0	0	0
(W) Seward Peninsula/Norton Sound	0	0	0	0	0	0	0	0	0	0
(X) Northwest Alaska	0	0	0	0	0	0	0	0	0	0
(Y) Yukon River drainage	0	0	0	0	0	0	0	0	0	0
(Z) North Slope/Brooks Range	0	0	0	0	0	0	0	0	0	0
Arctic-Yukon-Kuskokwim Total	0	0	0	0	0	0	0	0	0	0
Alaska Total	7,820	5,966	6,588	6,650	6,586	7,263	9,593	9,071	8,434	7,753

Note: Estimates include all rockfish species combined.

^a Area estimates reflect present-day survey area boundaries. Totals may differ from those found in previously published reports due to area boundary changes that have occurred across study years.

Table 2.108.—Alaska sport rockfish catch estimates, 2008–2017, by region and area.

Region/Area fished	Catch estimates									
	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Southeast										
(A) Ketchikan	29,185	31,643	21,648	16,902	20,569	28,942	38,026	31,124	25,368	23,171
(B) Prince of Wales Island	57,704	39,871	49,261	46,450	42,821	47,022	52,321	59,315	49,373	46,357
(C) Kake, Petersburg, Wrangell, Stikine	8,891	8,234	6,820	8,269	8,802	8,225	11,222	9,250	15,916	14,203
(D) Sitka	83,303	46,916	66,793	68,330	86,675	84,918	113,517	111,531	105,621	90,001
(E) Juneau	9,312	14,434	14,068	8,833	13,290	18,191	29,335	23,860	27,391	21,869
(F1) Skagway	57	14	15	0	17	124	93	0	161	18
(F2) Haines	248	256	239	289	171	657	806	820	476	1,227
(G) Glacier Bay	14,205	12,308	10,449	13,767	17,525	20,385	23,935	25,427	26,814	25,122
(H) Yakutat	3,209	3,472	6,153	3,491	4,986	5,140	9,449	6,781	7,057	7,399
Southeast Total	206,114	157,148	175,446	166,331	194,856	213,604	278,704	268,108	258,177	229,367
Southcentral										
(J) North Gulf Coast/Prince William Sound ^a	125,099	130,466	114,921	102,459	88,293	102,706	123,148	121,649	149,775	98,071
(K) Knik Arm	0	0	0	0	0	0	0	0	0	0
(L) Anchorage	0	0	0	0	0	0	0	0	0	0
(M) Susitna River drainage ^a	0	0	0	0	0	0	0	0	0	0
(N) West Cook Inlet drainages ^a	0	0	0	0	0	0	0	0	0	0
(PF) Kenai Peninsula freshwater ^a	0	0	0	0	0	0	0	0	0	0
(PS) Cook Inlet saltwater	23,757	27,059	34,973	31,402	26,422	25,835	31,289	37,524	47,322	44,762
(Q) Kodiak	38,964	40,569	46,404	32,262	34,202	33,739	47,182	40,974	44,230	34,442
(R) Alaska Peninsula/Aleutian Islands	3,185	2,375	3,325	954	6,758	1,690	2,796	6,457	4,759	558
(S) Kvichak River drainage	0	0	0	0	0	0	0	0	0	0
(T) Nushagak, Wood River and Togiak	0	0	0	0	0	0	0	0	0	0
Southcentral Total	191,005	200,469	199,623	167,077	155,675	163,970	204,415	206,604	246,086	177,833
Arctic-Yukon-Kuskokwim										
(I) Upper Copper River drainage ^a	0	0	0	0	0	0	0	0	0	0
(U) Tanana River drainage	0	0	0	0	0	0	0	0	0	0
(V) Kuskokwim River/Kuskokwim Bay drainages	0	0	0	0	0	0	0	0	0	0
(W) Seward Peninsula/Norton Sound	0	0	0	0	0	0	0	0	0	0
(X) Northwest Alaska	0	0	0	0	0	0	0	0	0	0
(Y) Yukon River drainage	0	0	0	0	0	0	0	0	0	0
(Z) North Slope/Brooks Range	0	0	0	0	0	0	0	0	0	0
Arctic-Yukon-Kuskokwim Total	0	0	0	0	0	0	0	0	0	0
Alaska Total	397,119	357,617	375,069	333,408	350,531	377,574	483,119	474,712	504,263	407,200

Note: Estimates include all rockfish species combined.

^a Area estimates reflect present-day survey area boundaries. Totals may differ from those found in previously published reports due to area boundary changes that have occurred across study years.

Table 2.109.—Alaska sport rockfish catch estimate **standard errors**, 2008–2017, by region and area.

Region/Area fished	Catch estimate standard errors									
	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Southeast										
(A) Ketchikan	2,763	3,888	2,524	2,169	3,058	4,590	4,029	2,717	2,279	2,712
(B) Prince of Wales Island	4,362	2,940	6,283	5,618	4,135	3,795	4,666	4,995	4,299	4,407
(C) Kake, Petersburg, Wrangell, Stikine	1,704	1,527	1,188	1,491	1,273	1,457	2,248	1,755	2,408	3,278
(D) Sitka	4,667	3,154	5,217	4,712	5,618	5,514	8,267	7,399	7,559	6,483
(E) Juneau	1,187	1,856	2,312	1,118	1,902	2,234	4,424	3,349	3,646	2,878
(F1) Skagway	42	14	15	0	16	102	77	0	127	18
(F2) Haines	188	111	126	264	99	273	281	374	417	494
(G) Glacier Bay	2,156	1,602	1,244	2,080	3,020	2,702	3,718	2,906	3,425	3,695
(H) Yakutat	611	985	1,004	839	1,091	989	1,906	1,306	1,401	1,428
Southeast Total	7,634	6,326	8,966	8,130	8,549	8,876	12,263	10,467	10,303	9,975
Southcentral										
(J) North Gulf Coast/Prince William Sound ^a	8,348	6,783	5,932	5,752	4,773	4,706	6,179	5,791	6,755	5,539
(K) Knik Arm	0	0	0	0	0	0	0	0	0	0
(L) Anchorage	0	0	0	0	0	0	0	0	0	0
(M) Susitna River drainage ^a	0	0	0	0	0	0	0	0	0	0
(N) West Cook Inlet drainages ^a	0	0	0	0	0	0	0	0	0	0
(PF) Kenai Peninsula freshwater ^a	0	0	0	0	0	0	0	0	0	0
(PS) Cook Inlet saltwater	2,870	2,175	4,291	3,603	2,039	1,943	2,408	2,934	3,265	3,293
(Q) Kodiak	5,404	5,932	6,034	3,699	4,270	3,002	4,283	4,807	5,337	3,565
(R) Alaska Peninsula/Aleutian Islands	906	689	1,617	402	4,484	623	1,065	4,965	2,695	337
(S) Kvichak River drainage	0	0	0	0	0	0	0	0	0	0
(T) Nushagak, Wood River and Togiak	0	0	0	0	0	0	0	0	0	0
Southcentral Total	10,146	9,556	9,835	7,665	8,069	5,896	7,877	9,648	9,505	7,039
Arctic-Yukon-Kuskokwim										
(I) Upper Copper River drainage ^a	0	0	0	0	0	0	0	0	0	0
(U) Tanana River drainage	0	0	0	0	0	0	0	0	0	0
(V) Kuskokwim River/Kuskokwim Bay drainages	0	0	0	0	0	0	0	0	0	0
(W) Seward Peninsula/Norton Sound	0	0	0	0	0	0	0	0	0	0
(X) Northwest Alaska	0	0	0	0	0	0	0	0	0	0
(Y) Yukon River drainage	0	0	0	0	0	0	0	0	0	0
(Z) North Slope/Brooks Range	0	0	0	0	0	0	0	0	0	0
Arctic-Yukon-Kuskokwim Total	0	0	0	0	0	0	0	0	0	0
Alaska Total	12,864	11,547	13,127	11,372	11,432	10,751	14,552	14,286	13,881	12,027

Note: Estimates include all rockfish species combined.

^a Area estimates reflect present-day survey area boundaries. Totals may differ from those found in previously published reports due to area boundary changes that have occurred across study years.

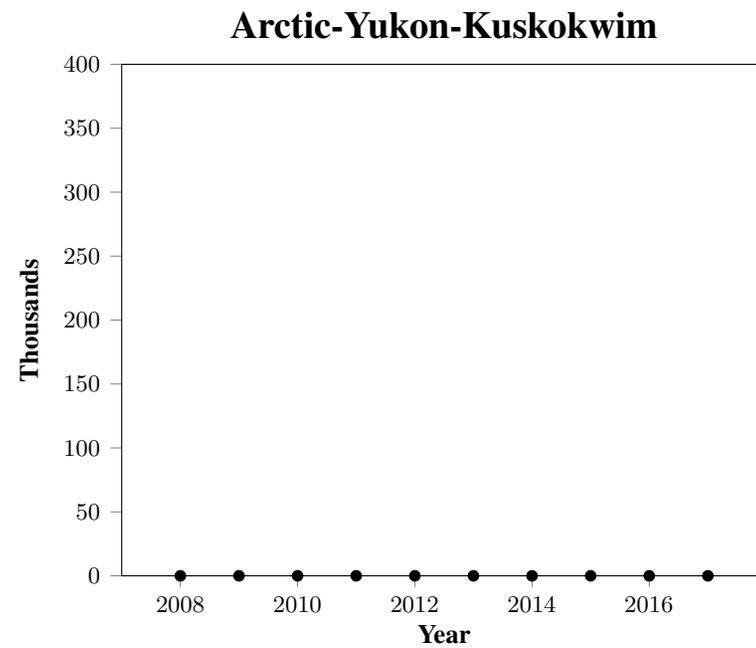
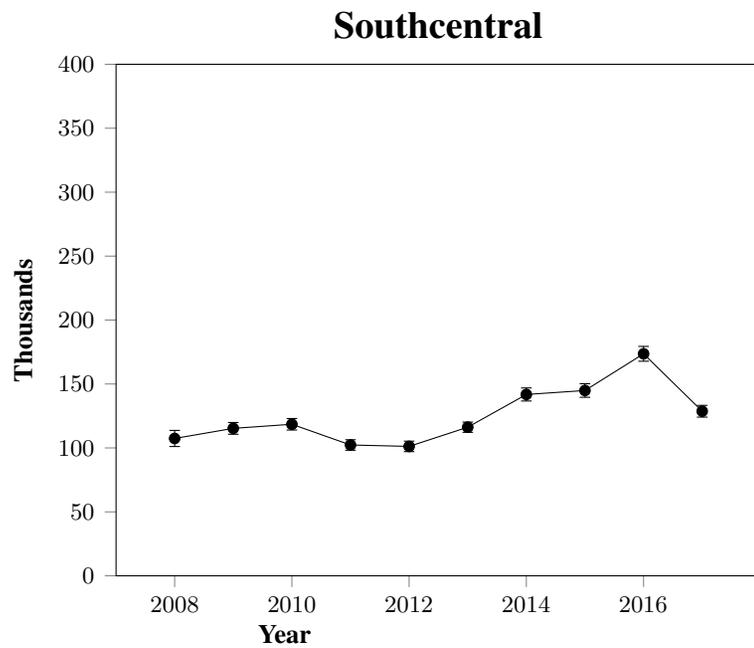
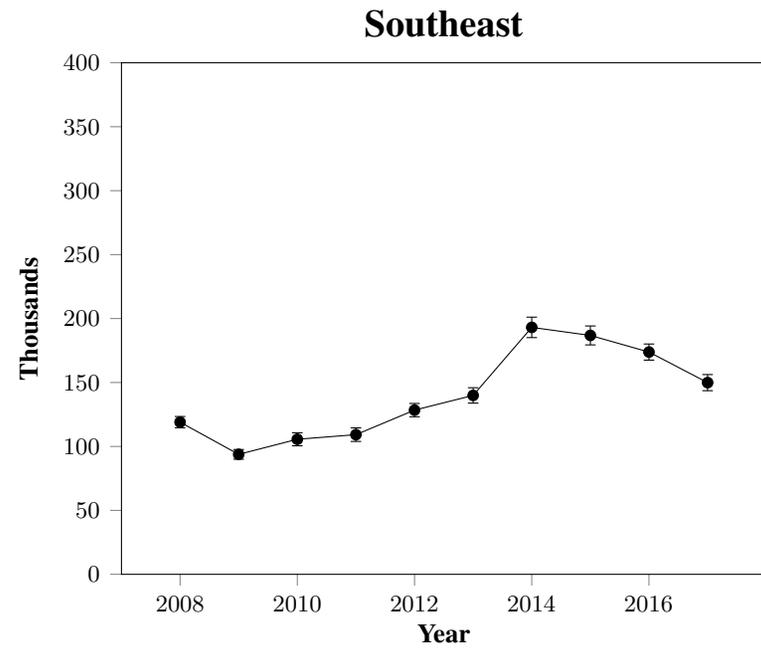
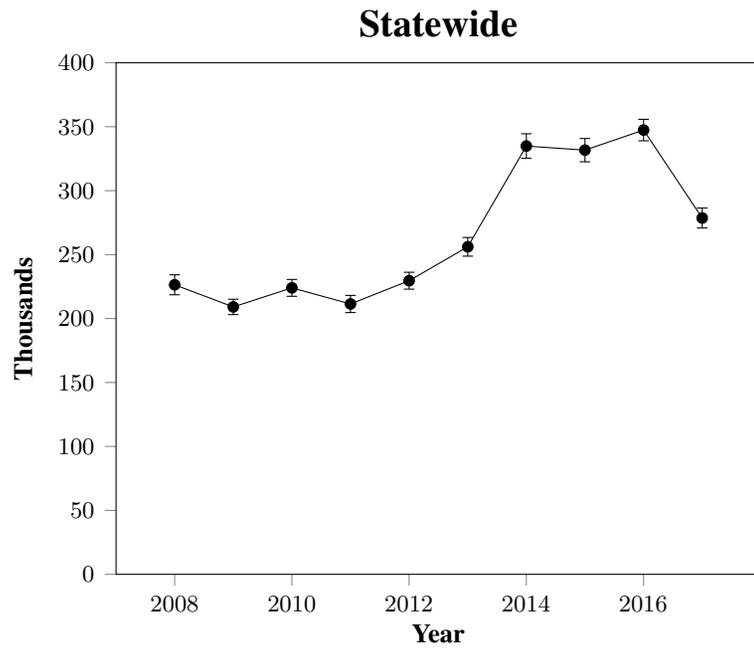


Figure 2.39.—Alaska sport rockfish harvest estimates and standard errors, 2008–2017, by region.

Note: Trends in harvest estimates can reflect changes in the abundance of fish, changes in angler effort, fishery management actions that reduce or liberalize harvest, or a combination of these and other factors.

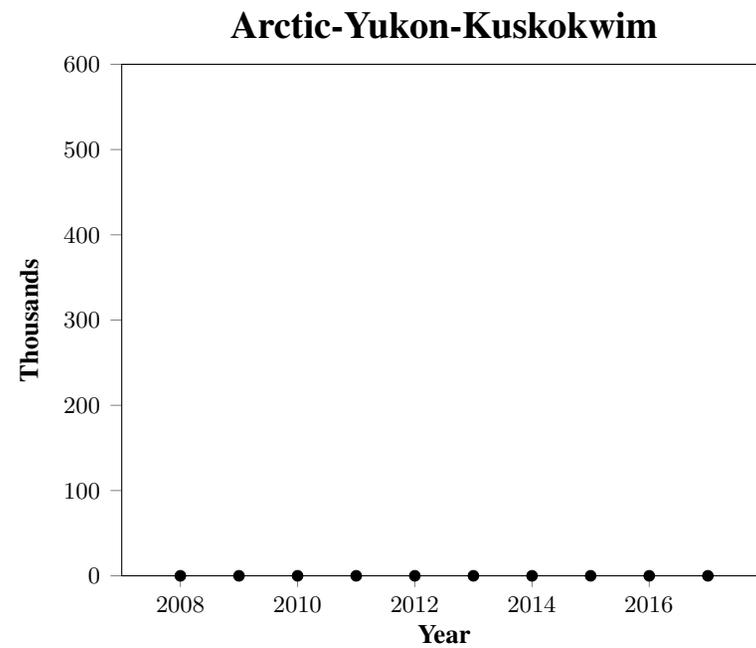
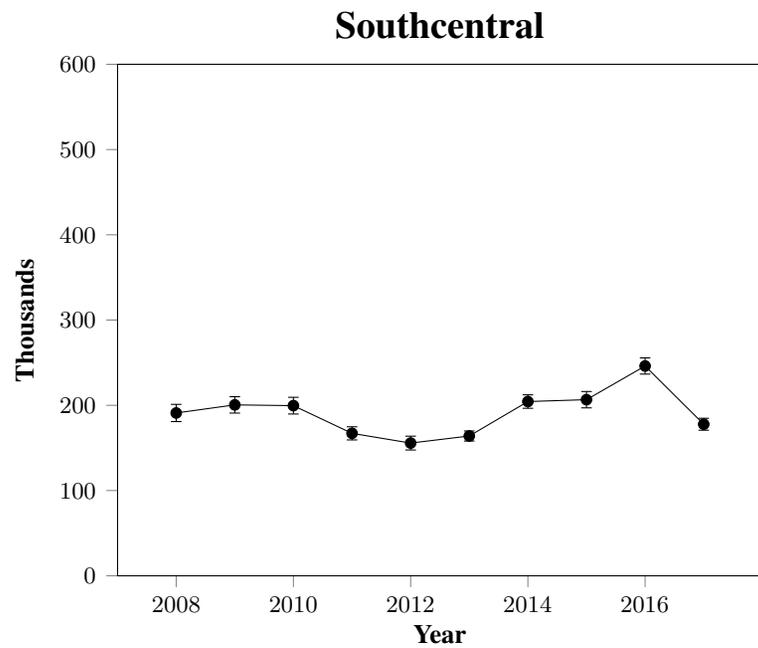
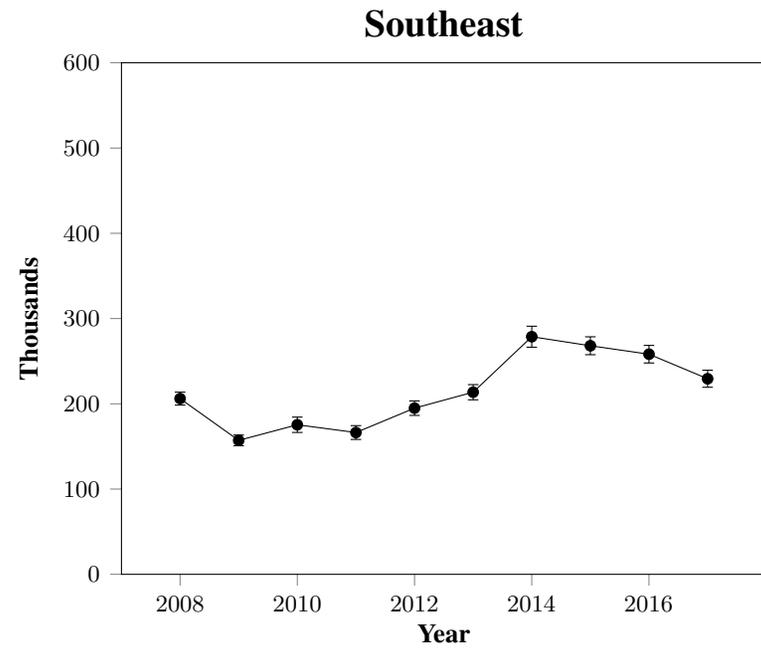
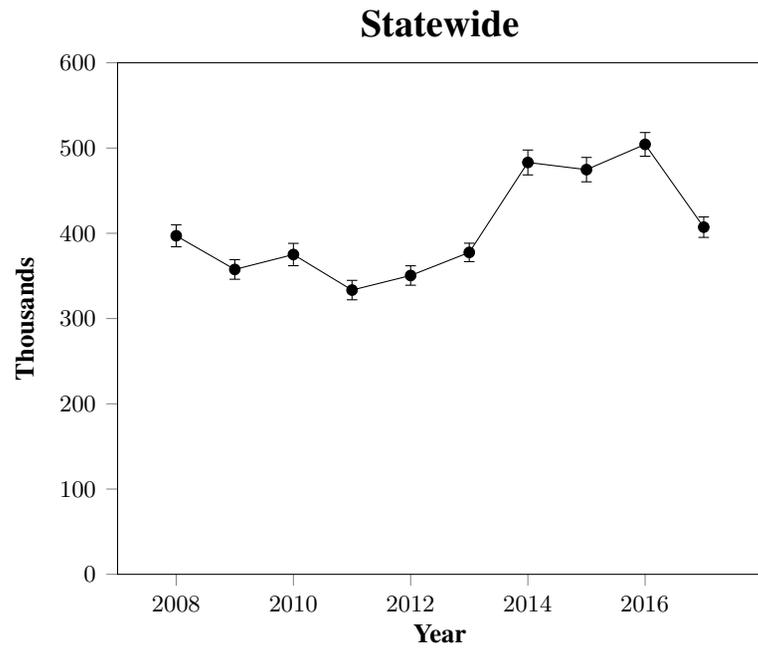


Figure 2.40.—Alaska sport rockfish catch estimates and standard errors, 2008–2017, by region.

Note: Trends in catch estimates can reflect changes in the abundance of fish, changes in angler effort, fishery management actions that reduce or liberalize harvest, or a combination of these and other factors.

Table 2.110.—Alaska sport lingcod harvest estimates, 2008–2017, by region and area.

Region/Area fished	Harvest estimates									
	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Southeast										
(A) Ketchikan	1,146	1,439	1,132	730	1,058	1,417	1,514	1,736	1,263	1,232
(B) Prince of Wales Island	4,535	3,480	3,347	3,482	4,134	4,325	3,821	4,244	4,517	4,018
(C) Kake, Petersburg, Wrangell, Stikine	182	401	139	270	291	318	460	370	466	420
(D) Sitka	3,452	2,137	2,182	2,657	4,721	4,440	4,576	3,811	3,573	4,014
(E) Juneau	125	368	246	285	385	543	388	342	314	248
(F1) Skagway	0	0	0	0	0	0	0	0	0	0
(F2) Haines	0	19	0	0	0	0	0	0	107	0
(G) Glacier Bay	655	655	488	941	901	1,817	1,292	956	969	903
(H) Yakutat	1,804	800	1,433	955	1,227	1,273	1,477	1,305	898	592
Southeast Total	11,899	9,299	8,967	9,320	12,717	14,133	13,528	12,764	12,107	11,427
Southcentral										
(J) North Gulf Coast/Prince William Sound ^a	14,910	13,049	14,013	11,897	10,728	9,785	9,447	9,034	7,456	5,504
(K) Knik Arm	0	0	0	0	0	0	0	0	0	0
(L) Anchorage	0	0	0	0	0	0	0	0	0	0
(M) Susitna River drainage ^a	0	0	0	0	0	0	0	0	0	0
(N) West Cook Inlet drainages ^a	0	0	0	0	0	0	0	0	0	0
(PF) Kenai Peninsula freshwater ^a	0	0	0	0	0	0	0	0	0	0
(PS) Cook Inlet saltwater	6,133	5,794	5,225	7,477	5,543	5,630	4,320	2,908	3,112	2,899
(Q) Kodiak	3,518	3,736	3,966	4,233	3,969	4,344	4,434	2,945	2,896	2,428
(R) Alaska Peninsula/Aleutian Islands	147	298	47	15	149	199	588	120	42	0
(S) Kvichak River drainage	0	0	0	0	0	0	0	0	0	0
(T) Nushagak, Wood River and Togiak	0	0	0	0	0	0	0	0	0	0
Southcentral Total	24,708	22,877	23,251	23,622	20,389	19,958	18,789	15,007	13,506	10,831
Arctic-Yukon-Kuskokwim										
(I) Upper Copper River drainage ^a	0	0	0	0	0	0	0	0	0	0
(U) Tanana River drainage	0	0	0	0	0	0	0	0	0	0
(V) Kuskokwim River/Kuskokwim Bay drainages	0	0	0	0	0	0	0	0	0	0
(W) Seward Peninsula/Norton Sound	0	0	0	0	0	0	0	0	0	0
(X) Northwest Alaska	0	0	0	0	0	0	0	0	0	0
(Y) Yukon River drainage	0	0	0	0	0	0	0	0	0	0
(Z) North Slope/Brooks Range	0	0	0	0	0	0	0	0	0	0
Arctic-Yukon-Kuskokwim Total	0	0	0	0	0	0	0	0	0	0
Alaska Total	36,607	32,176	32,218	32,942	33,106	34,091	32,317	27,771	25,613	22,258

^a Area estimates reflect present-day survey area boundaries. Totals may differ from those found in previously published reports due to area boundary changes that have occurred across study years.

Table 2.111.—Alaska sport lingcod harvest estimate **standard errors**, 2008–2017, by region and area.

Region/Area fished	Harvest estimate standard errors									
	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Southeast										
(A) Ketchikan	207	224	248	131	175	228	236	234	192	192
(B) Prince of Wales Island	369	285	308	312	345	351	341	412	490	333
(C) Kake, Petersburg, Wrangell, Stikine	59	88	50	80	79	89	134	99	115	108
(D) Sitka	270	224	234	264	346	363	380	425	370	507
(E) Juneau	44	123	64	118	123	138	102	94	84	68
(F1) Skagway	0	0	0	0	0	0	0	0	0	0
(F2) Haines	0	20	0	0	0	0	0	0	107	0
(G) Glacier Bay	120	108	136	148	162	249	197	162	181	173
(H) Yakutat	248	199	188	165	191	195	195	193	151	128
Southeast Total	585	506	519	493	601	656	635	670	689	684
Southcentral										
(J) North Gulf Coast/Prince William Sound ^a	823	848	797	1,246	754	722	649	672	604	547
(K) Knik Arm	0	0	0	0	0	0	0	0	0	0
(L) Anchorage	0	0	0	0	0	0	0	0	0	0
(M) Susitna River drainage ^a	0	0	0	0	0	0	0	0	0	0
(N) West Cook Inlet drainages ^a	0	0	0	0	0	0	0	0	0	0
(PF) Kenai Peninsula freshwater ^a	0	0	0	0	0	0	0	0	0	0
(PS) Cook Inlet saltwater	593	629	459	692	504	533	504	350	379	391
(Q) Kodiak	448	393	480	607	544	627	545	442	434	402
(R) Alaska Peninsula/Aleutian Islands	99	153	30	15	136	187	366	68	30	0
(S) Kvichak River drainage	0	0	0	0	0	0	0	0	0	0
(T) Nushagak, Wood River and Togiak	0	0	0	0	0	0	0	0	0	0
Southcentral Total	1,085	1,132	1,054	1,560	1,055	1,067	1,044	886	849	794
Arctic-Yukon-Kuskokwim										
(I) Upper Copper River drainage ^a	0	0	0	0	0	0	0	0	0	0
(U) Tanana River drainage	0	0	0	0	0	0	0	0	0	0
(V) Kuskokwim River/Kuskokwim Bay drainages	0	0	0	0	0	0	0	0	0	0
(W) Seward Peninsula/Norton Sound	0	0	0	0	0	0	0	0	0	0
(X) Northwest Alaska	0	0	0	0	0	0	0	0	0	0
(Y) Yukon River drainage	0	0	0	0	0	0	0	0	0	0
(Z) North Slope/Brooks Range	0	0	0	0	0	0	0	0	0	0
Arctic-Yukon-Kuskokwim Total	0	0	0	0	0	0	0	0	0	0
Alaska Total	1,247	1,225	1,177	1,627	1,207	1,235	1,242	1,110	1,106	1,044

^a Area estimates reflect present-day survey area boundaries. Totals may differ from those found in previously published reports due to area boundary changes that have occurred across study years.

Table 2.112.—Alaska sport lingcod catch estimates, 2008–2017, by region and area.

Region/Area fished	Catch estimates									
	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Southeast										
(A) Ketchikan	2,545	2,459	1,725	1,464	1,612	2,079	3,452	2,860	1,912	2,246
(B) Prince of Wales Island	11,526	7,955	7,100	6,222	7,731	7,591	6,946	6,563	6,401	6,056
(C) Kake, Petersburg, Wrangell, Stikine	746	937	372	744	943	761	1,046	662	1,099	1,171
(D) Sitka	21,389	9,325	11,737	9,209	14,041	11,323	10,547	9,688	7,916	9,921
(E) Juneau	458	1,345	1,117	1,131	961	1,741	1,106	1,303	1,197	1,130
(F1) Skagway	0	0	0	0	0	0	0	0	0	0
(F2) Haines	0	19	0	0	0	0	18	38	123	0
(G) Glacier Bay	5,407	4,398	2,511	2,671	2,955	4,779	2,987	2,658	2,887	2,613
(H) Yakutat	3,420	1,843	2,837	2,030	2,355	1,724	2,682	1,869	1,706	2,685
Southeast Total	45,491	28,281	27,399	23,471	30,598	29,998	28,784	25,641	23,241	25,822
Southcentral										
(J) North Gulf Coast/Prince William Sound ^a	35,457	29,101	25,626	22,216	20,796	19,423	17,256	15,618	13,328	11,603
(K) Knik Arm	0	0	0	0	0	0	0	0	0	0
(L) Anchorage	0	0	0	0	0	0	0	0	0	0
(M) Susitna River drainage ^a	0	0	0	0	0	0	0	0	0	0
(N) West Cook Inlet drainages ^a	0	0	0	0	0	0	0	0	0	0
(PF) Kenai Peninsula freshwater ^a	0	0	0	0	0	0	0	0	0	0
(PS) Cook Inlet saltwater	13,910	12,852	12,270	15,663	11,479	11,297	8,281	7,564	6,909	7,875
(Q) Kodiak	6,201	6,812	6,274	7,087	6,118	6,137	6,600	5,493	4,116	3,890
(R) Alaska Peninsula/Aleutian Islands	455	1,159	95	167	235	216	893	551	557	0
(S) Kvichak River drainage	0	0	0	0	0	0	0	0	0	0
(T) Nushagak, Wood River and Togiak	0	0	0	0	0	0	0	0	0	0
Southcentral Total	56,023	49,924	44,265	45,133	38,628	37,073	33,030	29,226	24,910	23,368
Arctic-Yukon-Kuskokwim										
(I) Upper Copper River drainage ^a	0	0	0	0	0	0	0	0	0	0
(U) Tanana River drainage	0	0	0	0	0	0	0	0	0	0
(V) Kuskokwim River/Kuskokwim Bay drainages	0	0	0	0	0	0	0	0	0	0
(W) Seward Peninsula/Norton Sound	0	0	0	0	0	20	0	0	0	0
(X) Northwest Alaska	0	0	0	0	0	0	0	0	0	0
(Y) Yukon River drainage	0	0	0	0	0	0	0	0	0	0
(Z) North Slope/Brooks Range	0	0	0	0	0	0	0	0	0	0
Arctic-Yukon-Kuskokwim Total	0	0	0	0	0	20	0	0	0	0
Alaska Total	101,514	78,205	71,664	68,604	69,226	67,091	61,814	54,867	48,151	49,190

^a Area estimates reflect present-day survey area boundaries. Totals may differ from those found in previously published reports due to area boundary changes that have occurred across study years.

Table 2.113.—Alaska sport lingcod catch estimate **standard errors**, 2008–2017, by region and area.

Region/Area fished	Catch estimate standard errors									
	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Southeast										
(A) Ketchikan	502	354	320	262	329	339	701	403	314	366
(B) Prince of Wales Island	1,116	713	872	607	808	758	741	656	665	532
(C) Kake, Petersburg, Wrangell, Stikine	215	210	109	224	310	198	281	200	312	346
(D) Sitka	1,378	721	1,038	859	1,931	1,044	821	1,063	785	1,538
(E) Juneau	119	306	363	368	294	476	283	338	413	305
(F1) Skagway	0	0	0	0	0	0	0	0	0	0
(F2) Haines	0	20	0	0	0	0	18	38	109	0
(G) Glacier Bay	898	629	401	436	437	717	489	377	589	404
(H) Yakutat	480	290	424	385	543	267	501	288	429	1,451
Southeast Total	2,132	1,315	1,561	1,296	2,275	1,548	1,514	1,437	1,374	2,330
Southcentral										
(J) North Gulf Coast/Prince William Sound ^a	2,881	2,507	1,533	1,897	1,506	1,377	1,298	1,188	1,038	1,181
(K) Knik Arm	0	0	0	0	0	0	0	0	0	0
(L) Anchorage	0	0	0	0	0	0	0	0	0	0
(M) Susitna River drainage ^a	0	0	0	0	0	0	0	0	0	0
(N) West Cook Inlet drainages ^a	0	0	0	0	0	0	0	0	0	0
(PF) Kenai Peninsula freshwater ^a	0	0	0	0	0	0	0	0	0	0
(PS) Cook Inlet saltwater	1,382	1,140	1,008	1,299	1,111	1,101	830	842	813	1,203
(Q) Kodiak	898	904	911	1,204	864	922	863	1,181	667	708
(R) Alaska Peninsula/Aleutian Islands	293	919	48	154	204	189	471	480	507	0
(S) Kvichak River drainage	0	0	0	0	0	0	0	0	0	0
(T) Nushagak, Wood River and Togiak	0	0	0	0	0	0	0	0	0	0
Southcentral Total	3,325	3,031	2,058	2,522	2,084	1,980	1,814	1,923	1,520	1,848
Arctic-Yukon-Kuskokwim										
(I) Upper Copper River drainage ^a	0	0	0	0	0	0	0	0	0	0
(U) Tanana River drainage	0	0	0	0	0	0	0	0	0	0
(V) Kuskokwim River/Kuskokwim Bay drainages	0	0	0	0	0	0	0	0	0	0
(W) Seward Peninsula/Norton Sound	0	0	0	0	0	20	0	0	0	0
(X) Northwest Alaska	0	0	0	0	0	0	0	0	0	0
(Y) Yukon River drainage	0	0	0	0	0	0	0	0	0	0
(Z) North Slope/Brooks Range	0	0	0	0	0	0	0	0	0	0
Arctic-Yukon-Kuskokwim Total	0	0	0	0	0	20	0	0	0	0
Alaska Total	3,936	3,280	2,573	2,852	3,029	2,496	2,384	2,412	2,088	2,859

^a Area estimates reflect present-day survey area boundaries. Totals may differ from those found in previously published reports due to area boundary changes that have occurred across study years.

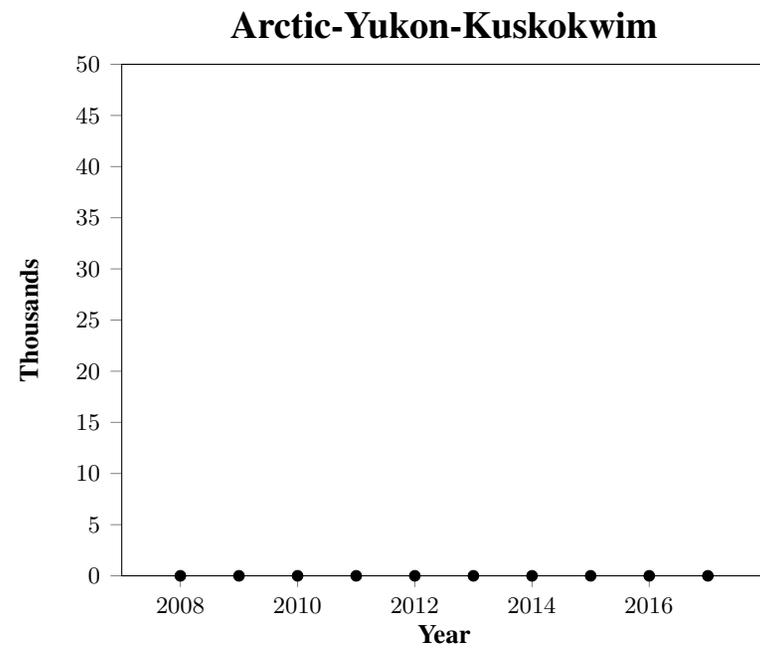
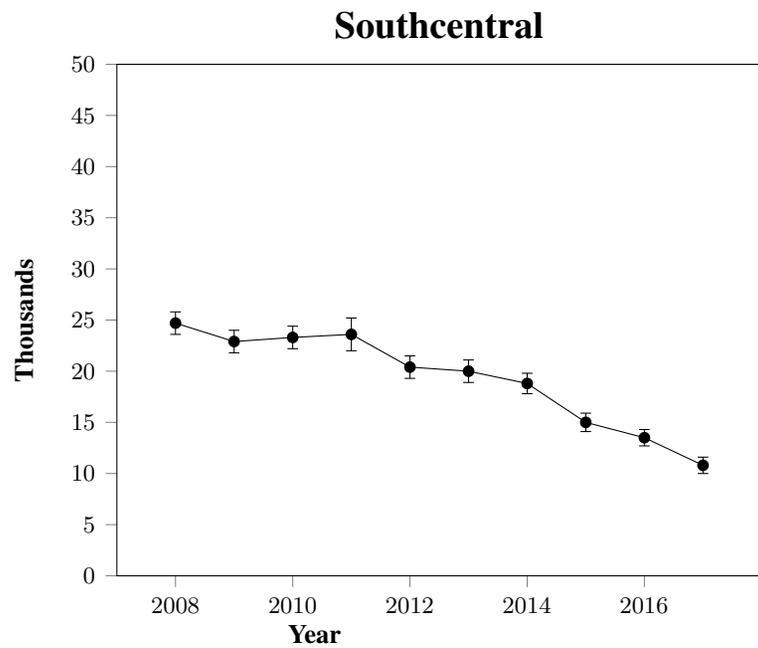
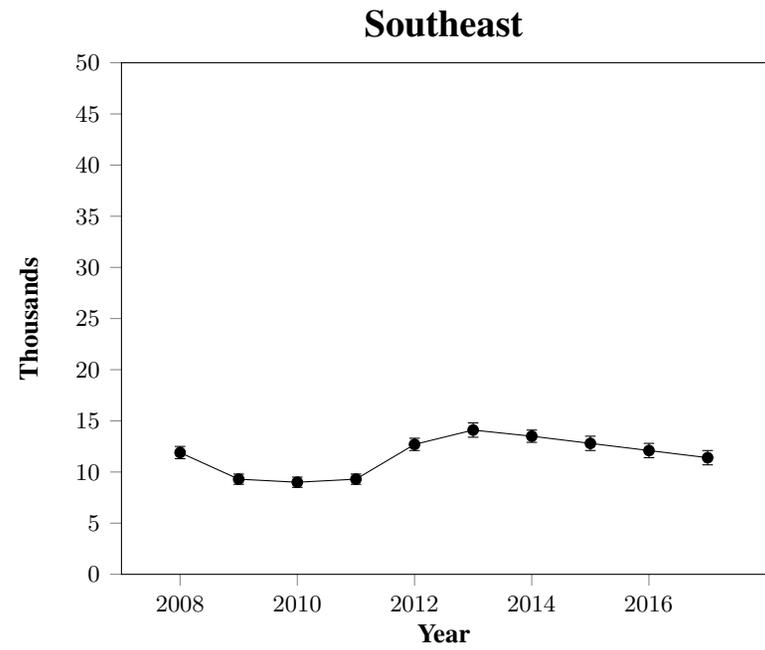
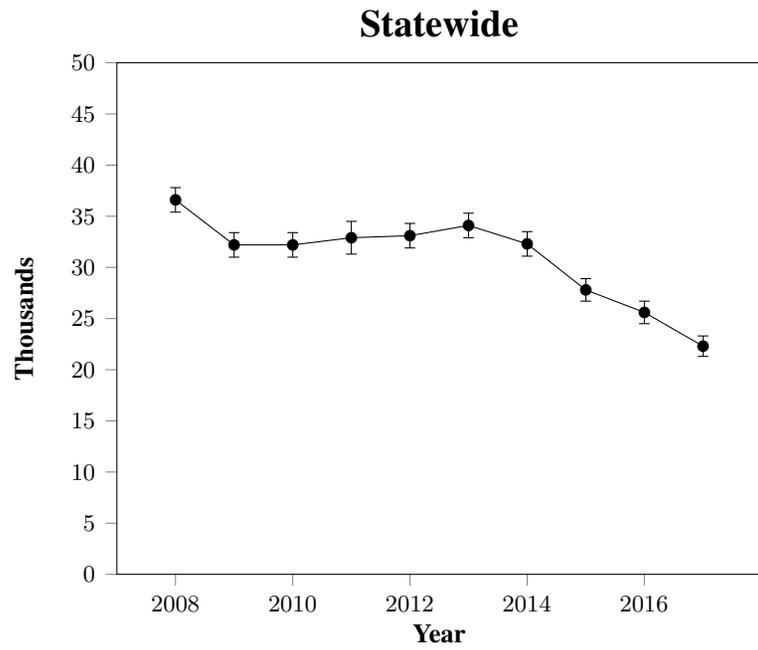


Figure 2.41.—Alaska sport lingcod harvest estimates and standard errors, 2008–2017, by region.

Note: Trends in harvest estimates can reflect changes in the abundance of fish, changes in angler effort, fishery management actions that reduce or liberalize harvest, or a combination of these and other factors.

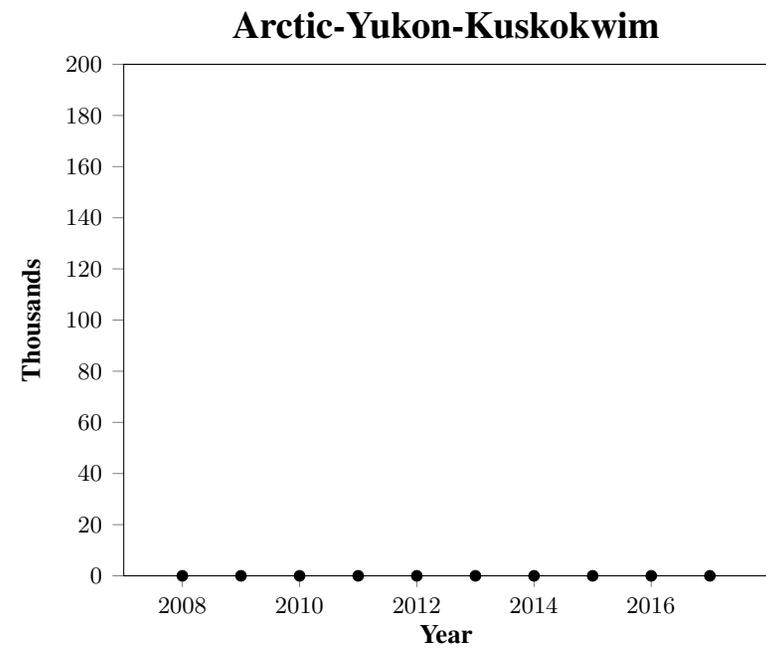
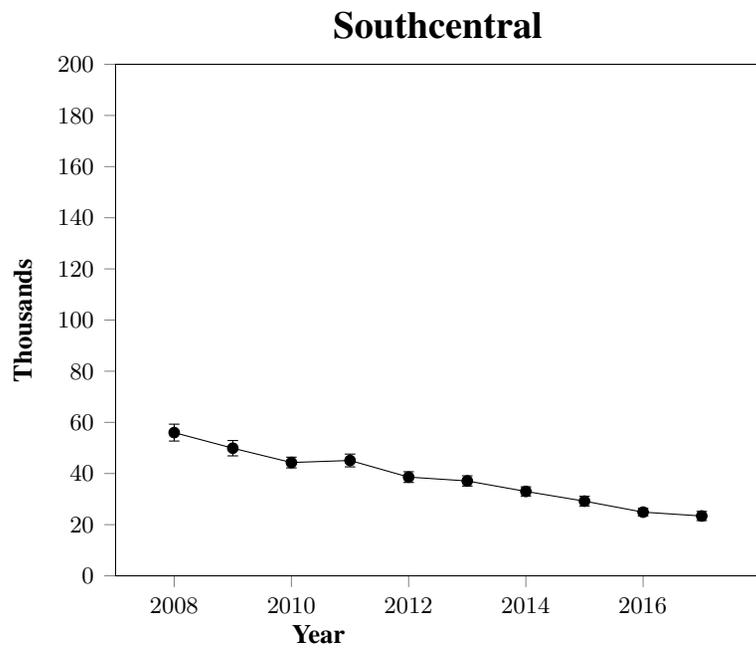
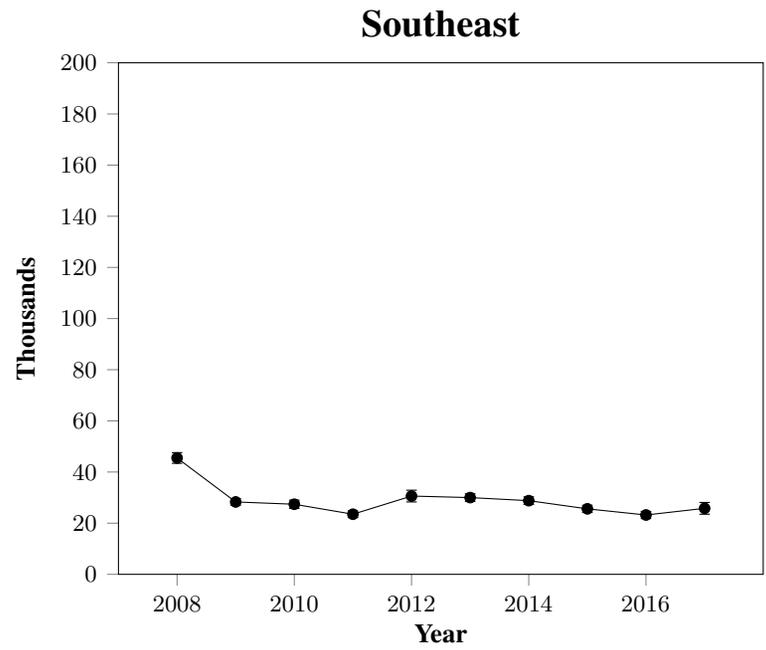
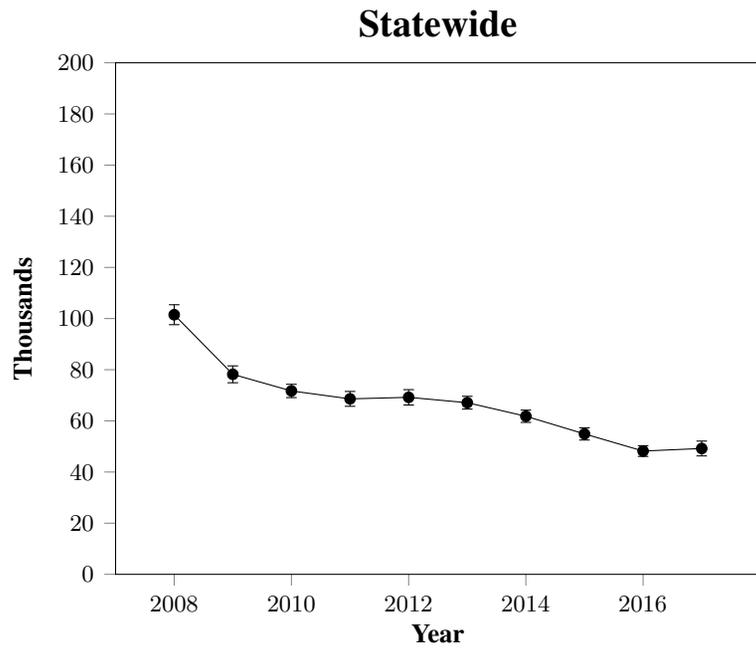


Figure 2.42.—Alaska sport lingcod catch estimates and standard errors, 2008–2017, by region.

Note: Trends in catch estimates can reflect changes in the abundance of fish, changes in angler effort, fishery management actions that reduce or liberalize harvest, or a combination of these and other factors.

Table 2.114.—Alaska sport Pacific cod harvest estimates, 2008–2017, by region and area.

Region/Area fished	Harvest estimates									
	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Southeast										
(A) Ketchikan	1,144	2,962	1,159	1,518	2,046	2,474	3,118	3,145	1,325	1,658
(B) Prince of Wales Island	3,640	2,195	2,400	5,841	3,197	1,517	4,386	6,256	1,587	1,363
(C) Kake, Petersburg, Wrangell, Stikine	627	1,200	2,217	1,094	814	1,114	1,589	1,572	980	434
(D) Sitka	934	1,461	731	1,197	1,434	779	3,015	2,769	1,415	960
(E) Juneau	1,838	2,869	1,842	1,823	2,547	4,030	5,433	4,417	5,412	1,309
(F1) Skagway	0	0	0	0	0	0	0	0	105	0
(F2) Haines	84	29	75	53	111	47	52	76	232	379
(G) Glacier Bay	1,052	600	629	782	585	558	2,446	2,590	1,019	343
(H) Yakutat	234	211	239	53	143	112	284	87	258	233
Southeast Total	9,553	11,527	9,292	12,361	10,877	10,631	20,323	20,912	12,333	6,679
Southcentral										
(J) North Gulf Coast/Prince William Sound ^a	5,828	6,845	8,714	11,257	6,936	6,943	11,609	13,130	9,049	2,934
(K) Knik Arm	0	0	0	0	0	0	0	0	0	0
(L) Anchorage	0	0	0	0	0	0	0	0	0	0
(M) Susitna River drainage ^a	0	0	0	0	0	0	0	0	0	0
(N) West Cook Inlet drainages ^a	0	0	0	0	0	0	0	0	0	0
(PF) Kenai Peninsula freshwater ^a	0	0	0	0	0	0	0	0	0	0
(PS) Cook Inlet saltwater	3,780	8,269	8,499	12,203	10,060	9,508	10,238	8,789	9,594	4,217
(Q) Kodiak	4,036	8,986	9,142	10,991	10,265	9,290	17,777	14,293	11,643	5,321
(R) Alaska Peninsula/Aleutian Islands	1,580	663	905	1,071	3,789	1,420	757	1,065	845	686
(S) Kvichak River drainage	0	0	0	0	0	0	0	0	0	0
(T) Nushagak, Wood River and Togiak	0	0	0	0	0	0	0	0	52	0
Southcentral Total	15,224	24,763	27,260	35,522	31,050	27,161	40,381	37,277	31,183	13,158
Arctic-Yukon-Kuskokwim										
(I) Upper Copper River drainage ^a	0	0	0	0	0	0	0	0	0	0
(U) Tanana River drainage	0	0	0	0	0	0	0	0	0	0
(V) Kuskokwim River/Kuskokwim Bay drainages	0	0	0	0	0	0	0	0	0	0
(W) Seward Peninsula/Norton Sound	0	0	0	0	0	0	0	0	0	0
(X) Northwest Alaska	0	0	0	0	0	0	0	0	0	0
(Y) Yukon River drainage	0	0	0	0	0	0	0	0	0	0
(Z) North Slope/Brooks Range	0	0	0	0	0	0	0	0	0	0
Arctic-Yukon-Kuskokwim Total	0	0	0	0	0	0	0	0	0	0
Alaska Total	24,777	36,290	36,552	47,883	41,927	37,792	60,704	58,189	43,516	19,837

^a Area estimates reflect present-day survey area boundaries. Totals may differ from those found in previously published reports due to area boundary changes that have occurred across study years.

Table 2.115.—Alaska sport Pacific cod harvest estimate **standard errors**, 2008–2017, by region and area.

Region/Area fished	Harvest estimate standard errors									
	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Southeast										
(A) Ketchikan	228	867	249	314	430	672	515	585	299	428
(B) Prince of Wales Island	661	392	503	1,648	795	345	1,103	1,874	358	364
(C) Kake, Petersburg, Wrangell, Stikine	327	423	1,302	293	224	331	378	399	264	183
(D) Sitka	266	733	246	357	533	153	862	687	368	230
(E) Juneau	377	495	481	325	535	968	1,014	915	1,401	286
(F1) Skagway	0	0	0	0	0	0	0	0	103	0
(F2) Haines	48	21	30	33	55	28	30	34	177	173
(G) Glacier Bay	511	146	265	261	202	191	767	568	341	175
(H) Yakutat	110	102	114	43	101	68	124	47	127	147
Southeast Total	1,054	1,359	1,577	1,794	1,254	1,300	1,966	2,298	1,588	730
Southcentral										
(J) North Gulf Coast/Prince William Sound ^a	712	1,135	924	1,457	773	804	1,393	1,383	1,225	457
(K) Knik Arm	0	0	0	0	0	0	0	0	0	0
(L) Anchorage	0	0	0	0	0	0	0	0	0	0
(M) Susitna River drainage ^a	0	0	0	0	0	0	0	0	0	0
(N) West Cook Inlet drainages ^a	0	0	0	0	0	0	0	0	0	0
(PF) Kenai Peninsula freshwater ^a	0	0	0	0	0	0	0	0	0	0
(PS) Cook Inlet saltwater	565	896	870	1,227	992	1,163	1,040	967	997	705
(Q) Kodiak	785	1,723	1,300	1,652	1,861	1,354	2,624	2,662	2,229	1,141
(R) Alaska Peninsula/Aleutian Islands	505	251	251	362	2,203	697	274	470	369	502
(S) Kvichak River drainage	0	0	0	0	0	0	0	0	0	0
(T) Nushagak, Wood River and Togiak	0	0	0	0	0	0	0	0	51	0
Southcentral Total	1,271	2,257	1,836	2,503	3,063	2,141	3,153	3,226	2,683	1,486
Arctic-Yukon-Kuskokwim										
(I) Upper Copper River drainage ^a	0	0	0	0	0	0	0	0	0	0
(U) Tanana River drainage	0	0	0	0	0	0	0	0	0	0
(V) Kuskokwim River/Kuskokwim Bay drainages	0	0	0	0	0	0	0	0	0	0
(W) Seward Peninsula/Norton Sound	0	0	0	0	0	0	0	0	0	0
(X) Northwest Alaska	0	0	0	0	0	0	0	0	0	0
(Y) Yukon River drainage	0	0	0	0	0	0	0	0	0	0
(Z) North Slope/Brooks Range	0	0	0	0	0	0	0	0	0	0
Arctic-Yukon-Kuskokwim Total	0	0	0	0	0	0	0	0	0	0
Alaska Total	1,670	2,653	2,402	3,048	3,284	2,479	3,734	3,992	3,141	1,627

^a Area estimates reflect present-day survey area boundaries. Totals may differ from those found in previously published reports due to area boundary changes that have occurred across study years.

Table 2.116.—Alaska sport Pacific cod catch estimates, 2008–2017, by region and area.

Region/Area fished	Catch estimates									
	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Southeast										
(A) Ketchikan	2,471	5,163	1,763	1,767	2,756	3,184	4,790	3,957	1,820	2,034
(B) Prince of Wales Island	5,541	3,087	3,244	6,547	4,227	2,485	6,135	7,602	3,644	2,311
(C) Kake, Petersburg, Wrangell, Stikine	673	1,518	3,323	2,496	1,246	2,386	5,239	4,556	2,258	1,368
(D) Sitka	1,215	3,071	1,418	2,221	2,333	1,628	5,014	3,456	2,183	1,276
(E) Juneau	2,739	6,076	9,141	4,301	3,870	6,675	9,535	6,793	9,135	4,085
(F1) Skagway	12	0	0	0	0	10	36	0	302	12
(F2) Haines	148	29	75	53	139	262	475	407	316	474
(G) Glacier Bay	2,770	1,828	1,401	2,677	1,104	3,617	5,460	7,086	1,590	626
(H) Yakutat	444	706	401	92	173	179	823	381	290	356
Southeast Total	16,013	21,478	20,766	20,154	15,848	20,426	37,507	34,238	21,538	12,542
Southcentral										
(J) North Gulf Coast/Prince William Sound ^a	15,594	19,231	21,086	31,251	18,164	15,808	27,259	32,318	17,872	7,806
(K) Knik Arm	0	0	0	0	0	0	0	0	0	0
(L) Anchorage	0	0	0	0	0	0	0	0	0	0
(M) Susitna River drainage ^a	0	0	0	0	0	0	0	0	0	0
(N) West Cook Inlet drainages ^a	0	0	0	0	0	0	0	0	0	0
(PF) Kenai Peninsula freshwater ^a	0	0	0	0	0	0	0	0	0	0
(PS) Cook Inlet saltwater	15,357	35,214	47,714	41,720	28,936	31,654	31,472	34,593	20,258	13,227
(Q) Kodiak	13,762	20,593	22,600	25,870	22,130	14,866	34,208	29,522	21,886	8,958
(R) Alaska Peninsula/Aleutian Islands	3,018	3,086	5,768	4,586	6,817	2,658	3,174	2,495	5,116	971
(S) Kvichak River drainage	0	0	0	0	0	0	0	0	0	0
(T) Nushagak, Wood River and Togiak	0	0	0	0	0	0	0	0	52	0
Southcentral Total	47,731	78,124	97,168	103,427	76,047	64,986	96,113	98,928	65,184	30,962
Arctic-Yukon-Kuskokwim										
(I) Upper Copper River drainage ^a	0	0	0	0	0	0	0	0	0	0
(U) Tanana River drainage	0	0	0	0	0	0	0	0	0	0
(V) Kuskokwim River/Kuskokwim Bay drainages	0	0	0	0	0	0	0	0	0	0
(W) Seward Peninsula/Norton Sound	0	0	0	0	0	0	0	0	0	0
(X) Northwest Alaska	0	13	0	0	0	0	0	0	0	0
(Y) Yukon River drainage	0	0	0	0	0	0	0	0	0	0
(Z) North Slope/Brooks Range	0	0	0	0	0	0	0	0	0	0
Arctic-Yukon-Kuskokwim Total	0	13	0	0	0	0	0	0	0	0
Alaska Total	63,744	99,615	117,934	123,581	91,895	85,412	133,620	133,166	86,722	43,504

^a Area estimates reflect present-day survey area boundaries. Totals may differ from those found in previously published reports due to area boundary changes that have occurred across study years.

Table 2.117.—Alaska sport Pacific cod catch estimate **standard errors**, 2008–2017, by region and area.

Region/Area fished	Catch estimate standard errors									
	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Southeast										
(A) Ketchikan	545	1,181	385	342	540	800	772	693	369	456
(B) Prince of Wales Island	965	498	628	1,664	902	608	1,319	2,016	786	584
(C) Kake, Petersburg, Wrangell, Stikine	332	443	1,532	692	332	738	1,121	1,120	490	428
(D) Sitka	326	1,224	385	599	666	662	1,259	728	493	257
(E) Juneau	469	1,105	3,776	571	676	1,271	1,776	1,157	2,078	951
(F1) Skagway	12	0	0	0	0	10	25	0	211	13
(F2) Haines	90	21	30	33	58	153	307	209	189	216
(G) Glacier Bay	1,407	402	390	975	386	1,480	1,342	1,349	507	235
(H) Yakutat	180	375	168	56	116	98	499	206	147	166
Southeast Total	1,962	2,194	4,222	2,189	1,545	2,400	3,284	3,007	2,403	1,309
Southcentral										
(J) North Gulf Coast/Prince William Sound ^a	1,958	2,691	2,195	4,777	2,430	1,731	4,123	3,600	2,118	1,270
(K) Knik Arm	0	0	0	0	0	0	0	0	0	0
(L) Anchorage	0	0	0	0	0	0	0	0	0	0
(M) Susitna River drainage ^a	0	0	0	0	0	0	0	0	0	0
(N) West Cook Inlet drainages ^a	0	0	0	0	0	0	0	0	0	0
(PF) Kenai Peninsula freshwater ^a	0	0	0	0	0	0	0	0	0	0
(PS) Cook Inlet saltwater	1,470	3,019	9,035	3,137	2,830	3,506	4,247	3,437	1,722	1,551
(Q) Kodiak	2,636	2,973	2,752	3,464	3,552	1,854	4,166	7,753	4,416	2,573
(R) Alaska Peninsula/Aleutian Islands	919	857	2,057	1,773	2,919	903	1,831	1,051	2,566	743
(S) Kvichak River drainage	0	0	0	0	0	0	0	0	0	0
(T) Nushagak, Wood River and Togiak	0	0	0	0	0	0	0	0	51	0
Southcentral Total	3,681	4,996	9,872	6,741	5,795	4,518	7,366	9,286	5,632	3,305
Arctic-Yukon-Kuskokwim										
(I) Upper Copper River drainage ^a	0	0	0	0	0	0	0	0	0	0
(U) Tanana River drainage	0	0	0	0	0	0	0	0	0	0
(V) Kuskokwim River/Kuskokwim Bay drainages	0	0	0	0	0	0	0	0	0	0
(W) Seward Peninsula/Norton Sound	0	0	0	0	0	0	0	0	0	0
(X) Northwest Alaska	0	12	0	0	0	0	0	0	0	0
(Y) Yukon River drainage	0	0	0	0	0	0	0	0	0	0
(Z) North Slope/Brooks Range	0	0	0	0	0	0	0	0	0	0
Arctic-Yukon-Kuskokwim Total	0	12	0	0	0	0	0	0	0	0
Alaska Total	4,180	5,548	10,722	7,084	5,939	5,089	8,053	9,764	6,108	3,545

^a Area estimates reflect present-day survey area boundaries. Totals may differ from those found in previously published reports due to area boundary changes that have occurred across study years.

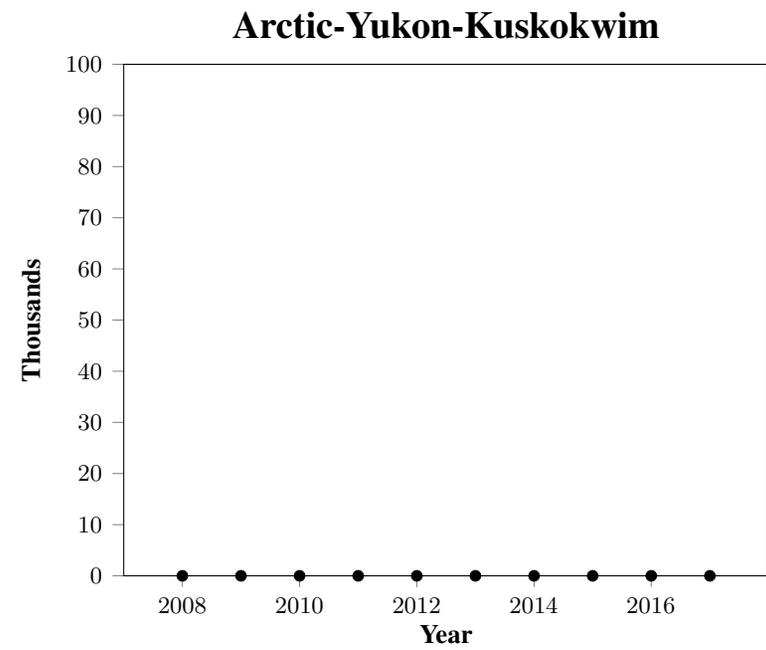
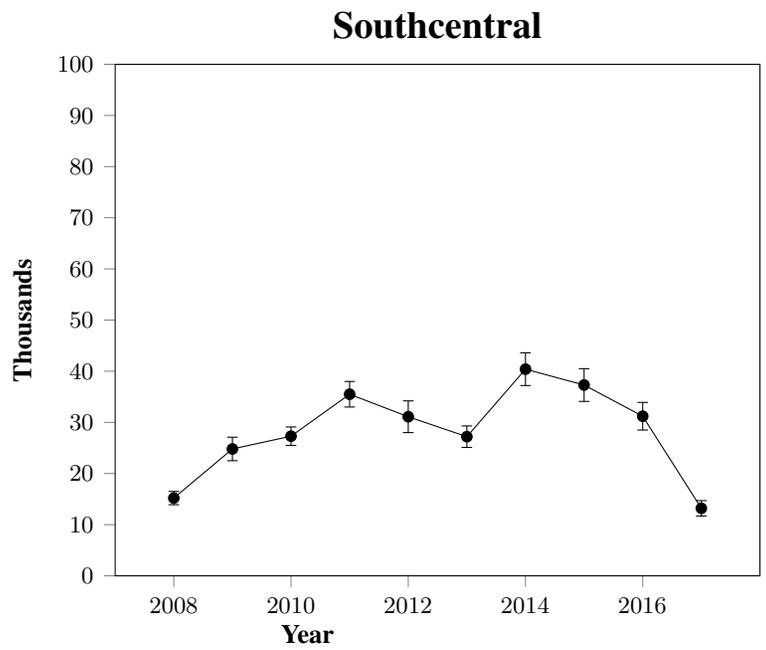
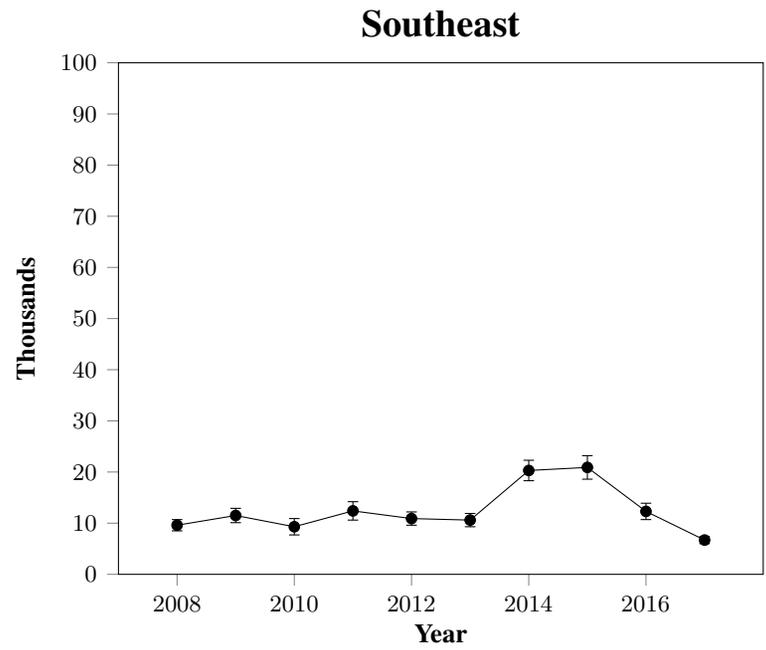
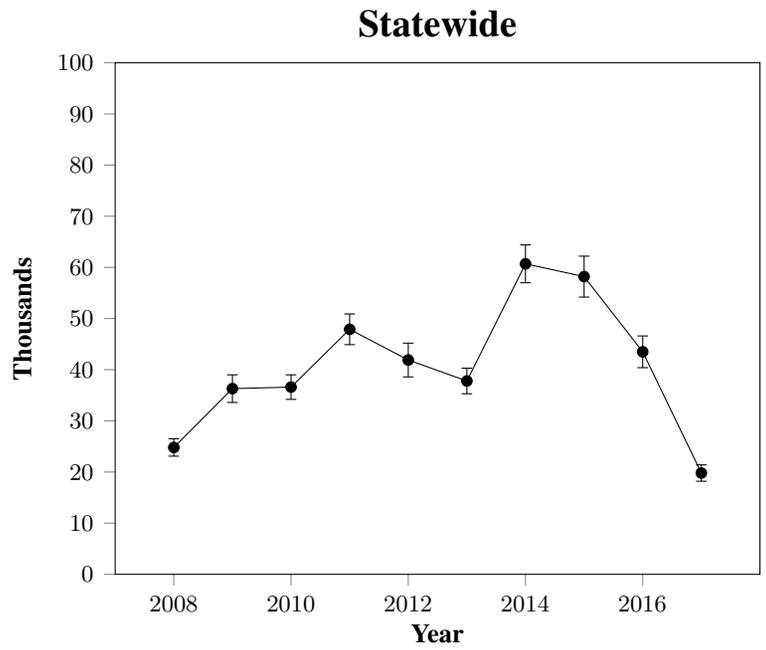


Figure 2.43.—Alaska sport Pacific cod harvest estimates and standard errors, 2008–2017, by region.

Note: Trends in harvest estimates can reflect changes in the abundance of fish, changes in angler effort, fishery management actions that reduce or liberalize harvest, or a combination of these and other factors.

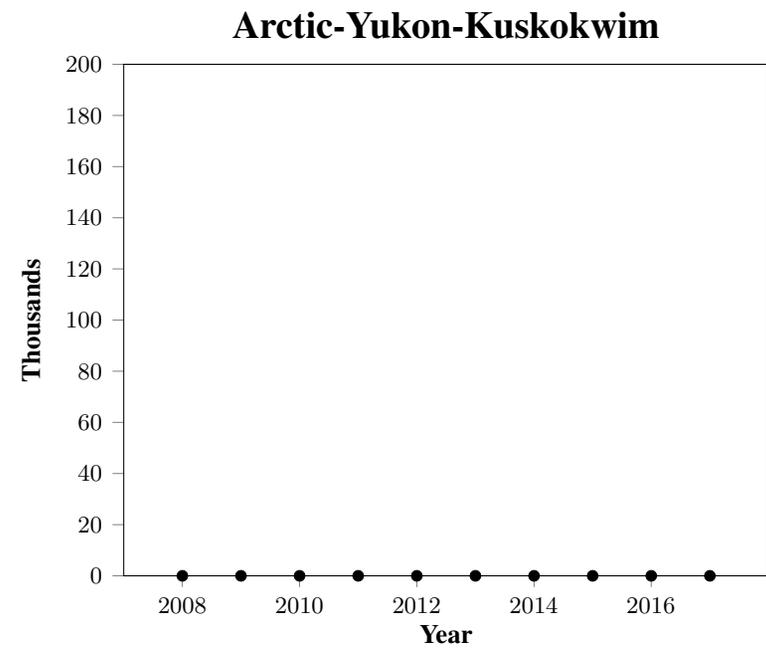
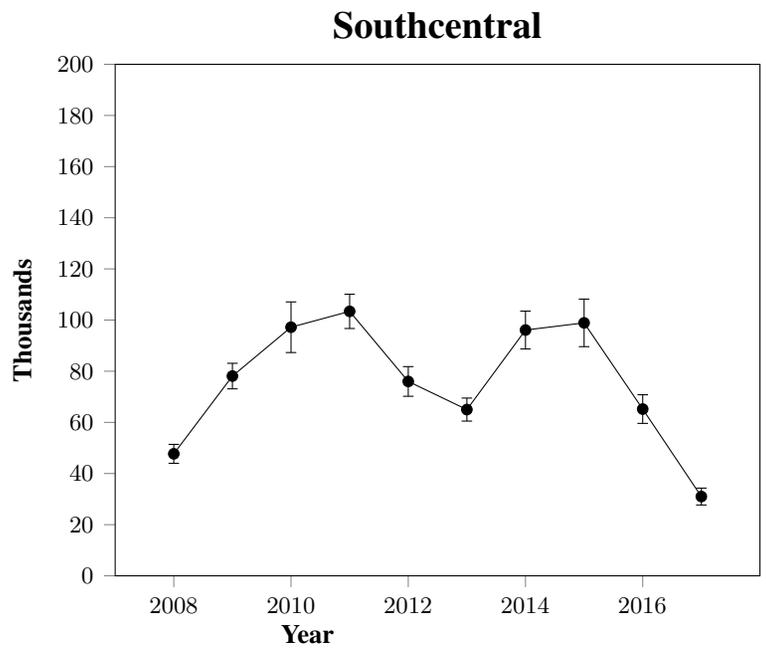
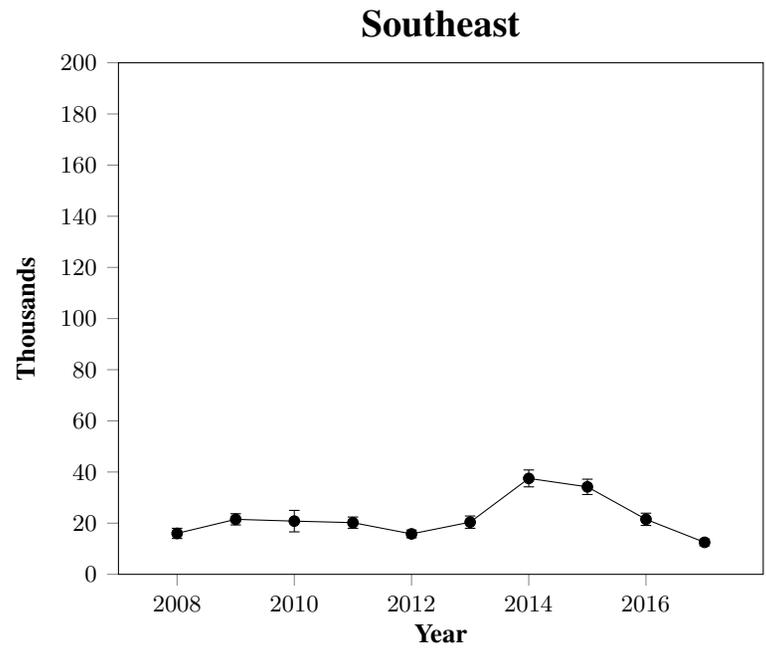
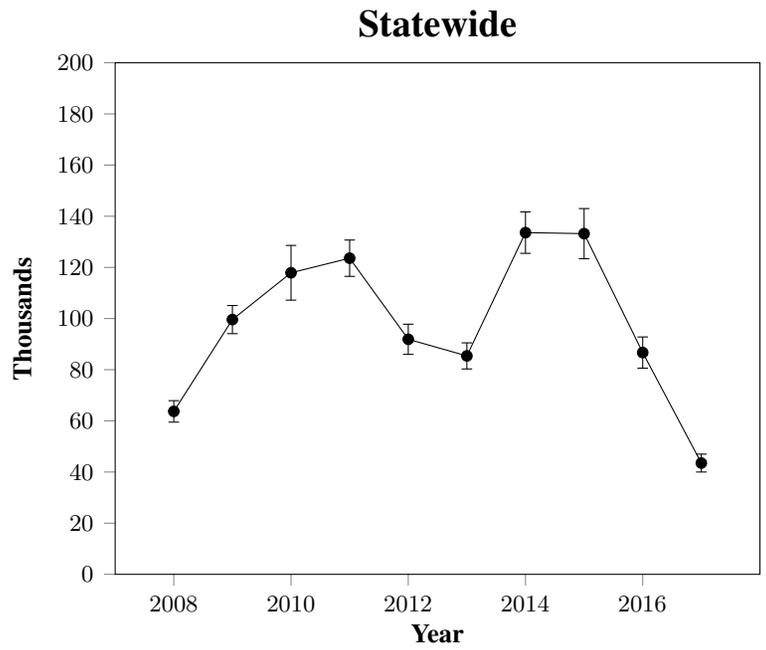


Figure 2.44.—Alaska sport Pacific cod catch estimates and standard errors, 2008–2017, by region.

Note: Trends in catch estimates can reflect changes in the abundance of fish, changes in angler effort, fishery management actions that reduce or liberalize harvest, or a combination of these and other factors.

Table 2.118.—Alaska sport sablefish (black cod) harvest estimates, 2008–2017, by region and area.

Region/Area fished	Harvest estimates									
	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Southeast										
(A) Ketchikan			151	68	315	155	406	864	213	977
(B) Prince of Wales Island			1,076	1,171	2,503	1,675	2,057	2,280	1,815	4,593
(C) Kake, Petersburg, Wrangell, Stikine			121	88	194	112	120	118	172	185
(D) Sitka			1,427	2,282	4,441	3,645	2,393	4,605	3,232	3,531
(E) Juneau			1,448	2,542	2,850	5,013	3,049	4,602	4,210	3,819
(F1) Skagway			0	0	0	0	0	0	0	0
(F2) Haines			0	0	48	0	9	0	0	82
(G) Glacier Bay			442	298	1,063	1,342	533	601	404	920
(H) Yakutat			128	256	384	453	55	268	270	457
Southeast Total			4,793	6,705	11,798	12,395	8,622	13,338	10,316	14,564
Southcentral										
(J) North Gulf Coast/Prince William Sound ^a			2,374	1,916	2,786	2,441	2,113	5,201	1,870	2,319
(K) Knik Arm			0	0	0	0	0	0	0	0
(L) Anchorage			0	0	0	0	0	0	0	0
(M) Susitna River drainage ^a			0	0	0	0	0	0	0	0
(N) West Cook Inlet drainages ^a			0	0	0	0	0	0	0	0
(PF) Kenai Peninsula freshwater ^a			0	0	0	0	0	0	0	0
(PS) Cook Inlet saltwater			670	695	1,911	2,131	810	2,426	1,539	1,605
(Q) Kodiak			815	871	1,205	1,009	856	2,309	1,616	3,193
(R) Alaska Peninsula/Aleutian Islands			133	0	0	12	9	0	10	412
(S) Kvichak River drainage			0	0	0	0	0	0	0	0
(T) Nushagak, Wood River and Togiak			0	0	0	0	0	0	0	0
Southcentral Total			3,992	3,482	5,902	5,593	3,788	9,936	5,035	7,529
Arctic-Yukon-Kuskokwim										
(I) Upper Copper River drainage ^a			0	0	0	0	0	0	0	0
(U) Tanana River drainage			0	0	0	0	0	0	0	0
(V) Kuskokwim River/Kuskokwim Bay drainages			0	0	0	0	0	0	0	0
(W) Seward Peninsula/Norton Sound			0	0	0	0	0	0	0	0
(X) Northwest Alaska			0	0	0	0	0	0	0	0
(Y) Yukon River drainage			0	0	0	0	0	0	0	0
(Z) North Slope/Brooks Range			0	0	0	0	0	0	0	0
Arctic-Yukon-Kuskokwim Total			0	0	0	0	0	0	0	0
Alaska Total			8,785	10,187	17,700	17,988	12,410	23,274	15,351	22,093

Note: Information on black cod was first collected in 2010.

^a Area estimates reflect present-day survey area boundaries. Totals may differ from those found in previously published reports due to area boundary changes that have occurred across study years.

Table 2.119.—Alaska sport sablefish (black cod) harvest estimate **standard errors**, 2008–2017, by region and area.

Region/Area fished	Harvest estimate standard errors									
	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Southeast										
(A) Ketchikan			65	36	152	81	114	363	97	358
(B) Prince of Wales Island			353	269	532	504	401	504	534	1,295
(C) Kake, Petersburg, Wrangell, Stikine			82	65	109	59	81	61	153	99
(D) Sitka			294	406	629	658	389	904	668	597
(E) Juneau			355	526	558	940	574	975	955	936
(F1) Skagway			0	0	0	0	0	0	0	0
(F2) Haines			0	0	35	0	9	0	0	83
(G) Glacier Bay			179	119	357	372	231	271	138	421
(H) Yakutat			61	124	203	198	37	101	183	274
Southeast Total			613	734	1,087	1,290	864	1,478	1,342	1,795
Southcentral										
(J) North Gulf Coast/Prince William Sound ^a			418	347	569	422	634	989	337	462
(K) Knik Arm			0	0	0	0	0	0	0	0
(L) Anchorage			0	0	0	0	0	0	0	0
(M) Susitna River drainage ^a			0	0	0	0	0	0	0	0
(N) West Cook Inlet drainages ^a			0	0	0	0	0	0	0	0
(PF) Kenai Peninsula freshwater ^a			0	0	0	0	0	0	0	0
(PS) Cook Inlet saltwater			169	202	424	502	186	526	427	403
(Q) Kodiak			319	236	322	283	231	605	527	878
(R) Alaska Peninsula/Aleutian Islands			128	0	0	12	9	0	10	405
(S) Kvichak River drainage			0	0	0	0	0	0	0	0
(T) Nushagak, Wood River and Togiak			0	0	0	0	0	0	0	0
Southcentral Total			567	462	785	678	708	1,256	745	1,126
Arctic-Yukon-Kuskokwim										
(I) Upper Copper River drainage ^a			0	0	0	0	0	0	0	0
(U) Tanana River drainage			0	0	0	0	0	0	0	0
(V) Kuskokwim River/Kuskokwim Bay drainages			0	0	0	0	0	0	0	0
(W) Seward Peninsula/Norton Sound			0	0	0	0	0	0	0	0
(X) Northwest Alaska			0	0	0	0	0	0	0	0
(Y) Yukon River drainage			0	0	0	0	0	0	0	0
(Z) North Slope/Brooks Range			0	0	0	0	0	0	0	0
Arctic-Yukon-Kuskokwim Total			0	0	0	0	0	0	0	0
Alaska Total			844	864	1,309	1,440	1,121	1,941	1,542	2,111

Note: Information on black cod was first collected in 2010.

^a Area estimates reflect present-day survey area boundaries. Totals may differ from those found in previously published reports due to area boundary changes that have occurred across study years.

Table 2.120.—Alaska sport sablefish (black cod) catch estimates, 2008–2017, by region and area.

Region/Area fished	Catch estimates									
	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Southeast										
(A) Ketchikan			246	78	378	254	634	1,158	291	1,466
(B) Prince of Wales Island			2,783	2,041	4,135	2,564	2,573	3,323	2,460	6,257
(C) Kake, Petersburg, Wrangell, Stikine			156	97	583	183	609	706	219	205
(D) Sitka			2,768	4,269	5,902	4,649	3,329	5,680	3,594	4,061
(E) Juneau			1,803	2,702	3,278	5,588	3,560	6,015	4,498	4,097
(F1) Skagway			0	0	0	0	0	0	0	0
(F2) Haines			0	0	48	0	9	0	27	204
(G) Glacier Bay			593	381	1,614	2,591	675	2,097	582	1,839
(H) Yakutat			145	401	384	523	55	366	332	519
Southeast Total			8,494	9,969	16,322	16,352	11,444	19,345	12,003	18,648
Southcentral										
(J) North Gulf Coast/Prince William Sound ^a			3,576	4,344	4,378	3,201	2,689	8,811	2,668	2,735
(K) Knik Arm			0	0	0	0	0	0	0	0
(L) Anchorage			0	0	0	0	0	0	0	0
(M) Susitna River drainage ^a			0	0	0	0	0	0	0	0
(N) West Cook Inlet drainages ^a			0	0	0	0	0	0	0	0
(PF) Kenai Peninsula freshwater ^a			0	0	0	0	0	0	0	0
(PS) Cook Inlet saltwater			1,819	1,871	3,938	2,909	2,215	4,342	1,885	2,413
(Q) Kodiak			1,787	1,526	1,958	1,736	1,870	3,680	2,126	3,420
(R) Alaska Peninsula/Aleutian Islands			149	0	0	38	9	0	260	824
(S) Kvichak River drainage			0	0	0	0	0	0	0	0
(T) Nushagak, Wood River and Togiak			0	0	0	0	0	0	0	0
Southcentral Total			7,331	7,741	10,274	7,884	6,783	16,833	6,939	9,392
Arctic-Yukon-Kuskokwim										
(I) Upper Copper River drainage ^a			0	0	0	0	0	0	0	0
(U) Tanana River drainage			0	0	0	0	0	0	0	0
(V) Kuskokwim River/Kuskokwim Bay drainages			0	0	0	0	0	0	0	0
(W) Seward Peninsula/Norton Sound			0	0	0	0	0	0	0	0
(X) Northwest Alaska			0	0	0	0	0	0	0	0
(Y) Yukon River drainage			0	0	0	0	0	0	0	0
(Z) North Slope/Brooks Range			0	0	0	0	0	0	0	0
Arctic-Yukon-Kuskokwim Total			0							
Alaska Total			15,825	17,710	26,596	24,236	18,227	36,178	18,942	28,040

Note: Information on black cod was first collected in 2010.

^a Area estimates reflect present-day survey area boundaries. Totals may differ from those found in previously published reports due to area boundary changes that have occurred across study years.

Table 2.121.—Alaska sport sablefish (black cod) catch estimate **standard errors**, 2008–2017, by region and area.

Region/Area fished	Catch estimate standard errors									
	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Southeast										
(A) Ketchikan			85	37	157	115	173	432	123	419
(B) Prince of Wales Island			1,057	526	966	799	503	712	798	1,714
(C) Kake, Petersburg, Wrangell, Stikine			108	66	476	125	338	581	158	102
(D) Sitka			644	934	918	778	704	1,141	690	682
(E) Juneau			417	556	632	1,028	765	1,312	1,038	965
(F1) Skagway			0	0	0	0	0	0	0	0
(F2) Haines			0	0	35	0	9	0	28	208
(G) Glacier Bay			210	149	580	876	251	1,066	192	922
(H) Yakutat			63	201	203	203	37	140	228	329
Southeast Total			1,309	1,245	1,691	1,711	1,286	2,276	1,567	2,329
Southcentral										
(J) North Gulf Coast/Prince William Sound ^a			589	799	909	528	925	1,302	469	496
(K) Knik Arm			0	0	0	0	0	0	0	0
(L) Anchorage			0	0	0	0	0	0	0	0
(M) Susitna River drainage ^a			0	0	0	0	0	0	0	0
(N) West Cook Inlet drainages ^a			0	0	0	0	0	0	0	0
(PF) Kenai Peninsula freshwater ^a			0	0	0	0	0	0	0	0
(PS) Cook Inlet saltwater			447	378	947	567	1,054	903	455	579
(Q) Kodiak			504	537	485	459	512	979	600	901
(R) Alaska Peninsula/Aleutian Islands			130	0	0	28	9	0	204	811
(S) Kvichak River drainage				0	0	0	0	0	0	0
(T) Nushagak, Wood River and Togiak			0	0	0	0	0	0	0	0
Southcentral Total			923	1,037	1,437	872	1,511	1,819	909	1,388
Arctic-Yukon-Kuskokwim										
(I) Upper Copper River drainage ^a			0	0	0	0	0	0	0	0
(U) Tanana River drainage			0	0	0	0	0	0	0	0
(V) Kuskokwim River/Kuskokwim Bay drainages			0	0	0	0	0	0	0	0
(W) Seward Peninsula/Norton Sound			0	0	0	0	0	0	0	0
(X) Northwest Alaska				0	0	0	0	0	0	0
(Y) Yukon River drainage			0	0	0	0	0	0	0	0
(Z) North Slope/Brooks Range			0	0	0	0	0	0	0	0
Arctic-Yukon-Kuskokwim Total			0							
Alaska Total			1,608	1,608	2,181	1,909	1,970	2,964	1,795	2,664

Note: Information on black cod was first collected in 2010.

^a Area estimates reflect present-day survey area boundaries. Totals may differ from those found in previously published reports due to area boundary changes that have occurred across study years.

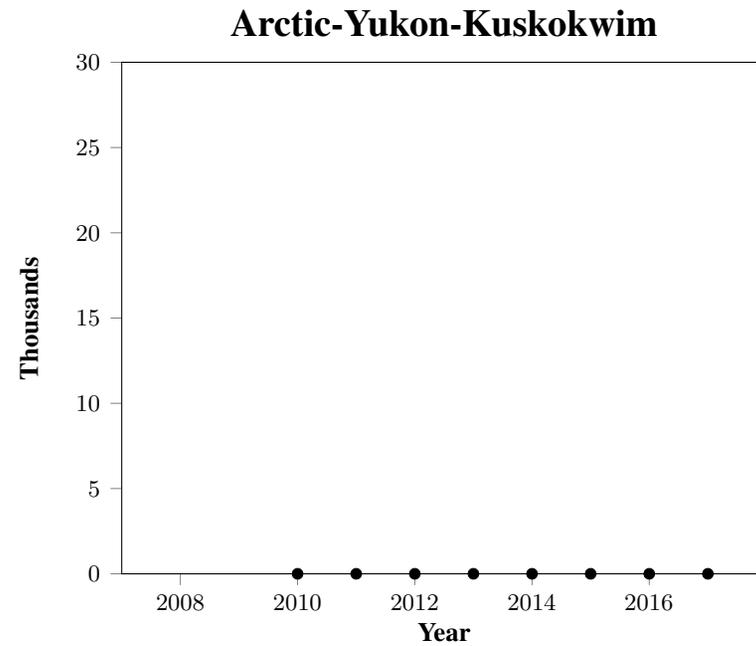
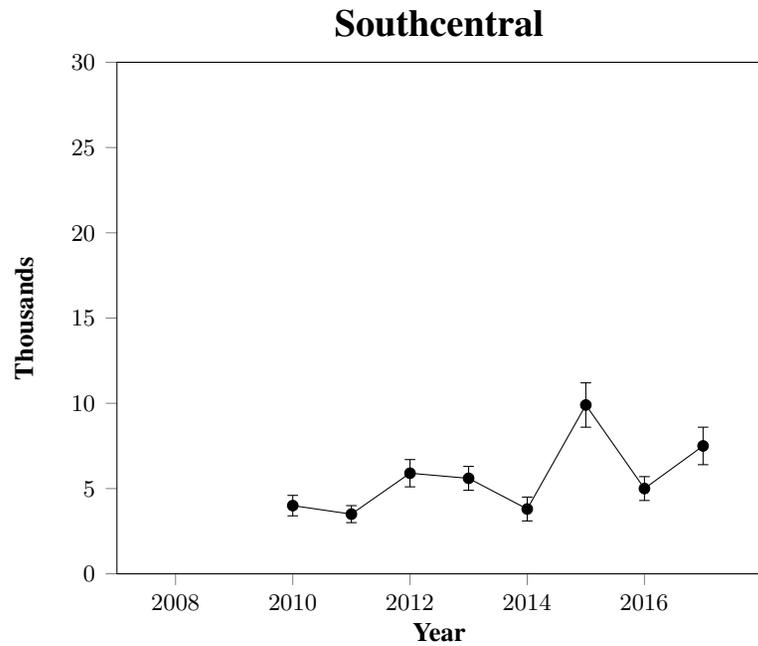
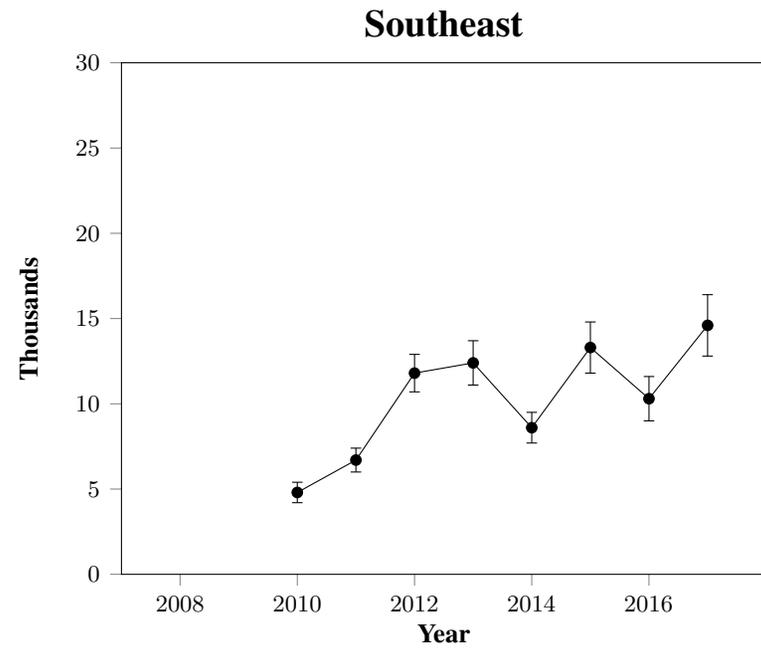
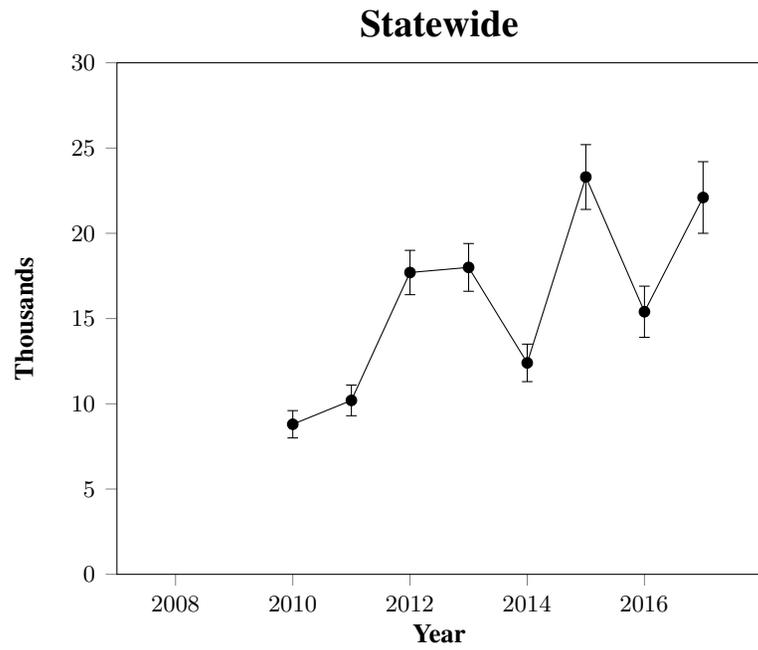


Figure 2.45.—Alaska sport sablefish (black cod) harvest estimates and standard errors, 2008–2017, by region.

Note: Trends in harvest estimates can reflect changes in the abundance of fish, changes in angler effort, fishery management actions that reduce or liberalize harvest, or a combination of these and other factors.

Note: Information on black cod was first collected in 2010.

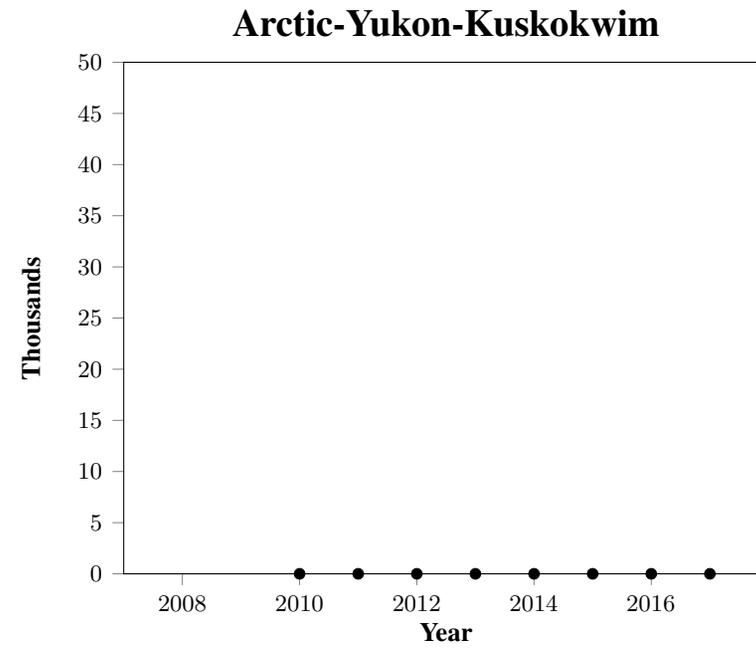
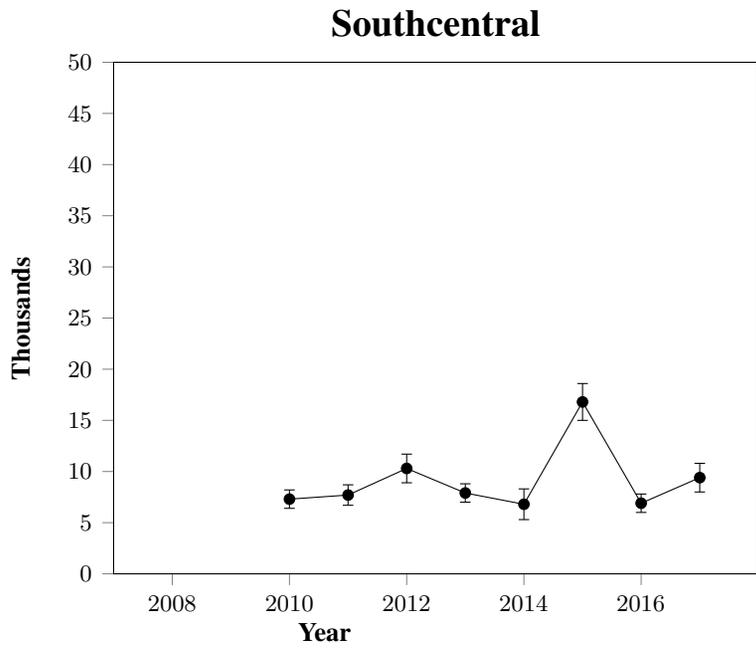
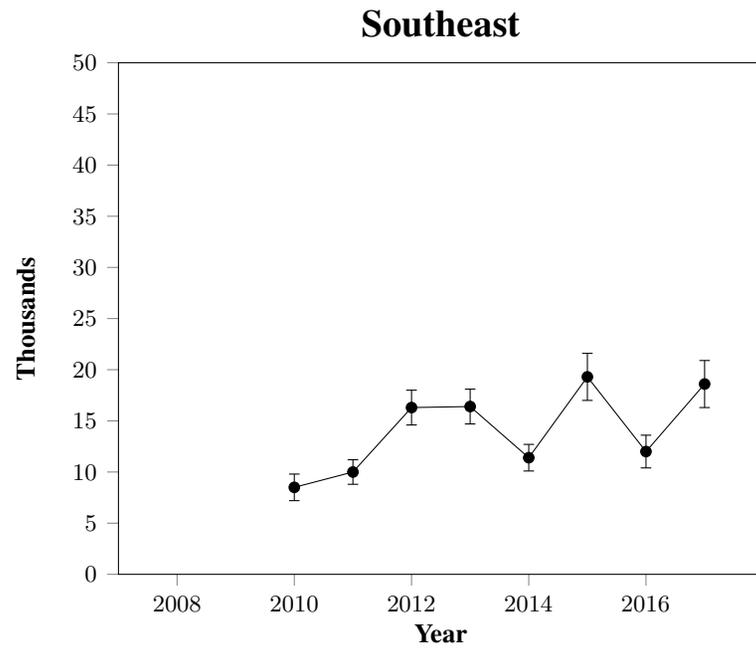
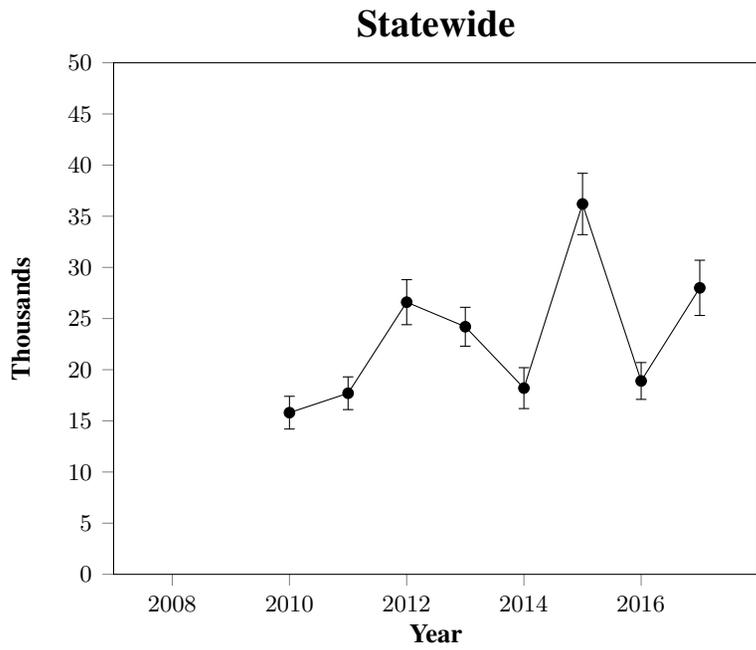


Figure 2.46.—Alaska sport sablefish (black cod) catch estimates and standard errors, 2008–2017, by region.
Note: Trends in catch estimates can reflect changes in the abundance of fish, changes in angler effort, fishery management actions that reduce or liberalize harvest, or a combination of these and other factors.
Note: Information on black cod was first collected in 2010.

Table 2.122.—Alaska sport shark harvest estimates, 2008–2017, by region and area.

Region/Area fished	Harvest estimates									
	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Southeast										
(A) Ketchikan	26	25	0	6	22	96	646	20	8	28
(B) Prince of Wales Island	0	0	17	25	31	0	0	49	8	7
(C) Kake, Petersburg, Wrangell, Stikine	50	87	0	19	0	41	0	17	0	8
(D) Sitka	0	11	0	6	0	8	64	39	0	7
(E) Juneau	27	0	0	0	10	0	18	0	0	0
(F1) Skagway	0	0	0	0	0	0	0	0	0	0
(F2) Haines	0	0	0	0	0	0	20	0	0	0
(G) Glacier Bay	128	36	0	0	6	0	0	0	8	0
(H) Yakutat	0	0	0	0	0	7	0	0	0	0
Southeast Total	231	159	17	56	69	152	748	125	24	50
Southcentral										
(J) North Gulf Coast/Prince William Sound ^a	275	62	186	62	12	223	228	37	77	29
(K) Knik Arm	0	0	0	0	0	0	0	0	0	0
(L) Anchorage	0	0	0	0	0	0	0	0	0	0
(M) Susitna River drainage ^a	0	0	0	0	0	0	0	0	0	0
(N) West Cook Inlet drainages ^a	0	0	0	0	0	0	0	0	0	0
(PF) Kenai Peninsula freshwater ^a	0	0	0	0	0	0	0	0	0	0
(PS) Cook Inlet saltwater	271	156	129	305	120	336	1,125	506	158	76
(Q) Kodiak	140	19	0	108	0	0	0	0	0	0
(R) Alaska Peninsula/Aleutian Islands	0	0	0	0	0	0	0	0	0	0
(S) Kvichak River drainage	0	0	0	0	0	0	0	0	0	0
(T) Nushagak, Wood River and Togiak	0	0	0	0	0	0	0	0	0	0
Southcentral Total	686	237	315	475	132	559	1,353	543	235	105
Arctic-Yukon-Kuskokwim										
(I) Upper Copper River drainage ^a	0	0	0	0	0	0	0	0	0	0
(U) Tanana River drainage	0	0	0	0	0	0	0	0	0	0
(V) Kuskokwim River/Kuskokwim Bay drainages	0	0	0	0	0	0	0	0	0	0
(W) Seward Peninsula/Norton Sound	0	0	0	0	0	0	0	0	0	0
(X) Northwest Alaska	0	0	0	0	0	0	0	0	0	0
(Y) Yukon River drainage	0	0	0	0	0	0	0	0	0	0
(Z) North Slope/Brooks Range	0	0	0	0	0	0	0	0	0	0
Arctic-Yukon-Kuskokwim Total	0	0	0	0	0	0	0	0	0	0
Alaska Total	917	396	332	531	201	711	2,101	668	259	155

Note: Estimates include all shark species combined.

^a Area estimates reflect present-day survey area boundaries. Totals may differ from those found in previously published reports due to area boundary changes that have occurred across study years.

Table 2.123.—Alaska sport shark harvest estimate **standard errors**, 2008–2017, by region and area.

Region/Area fished	Harvest estimate standard errors									
	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Southeast										
(A) Ketchikan	26	25	0	6	17	60	423	20	8	18
(B) Prince of Wales Island	0	0	17	25	31	0	0	35	8	7
(C) Kake, Petersburg, Wrangell, Stikine	33	76	0	19	0	40	0	16	0	8
(D) Sitka	0	11	0	6	0	8	31	39	0	7
(E) Juneau	28	0	0	0	9	0	18	0	0	0
(F1) Skagway	0	0	0	0	0	0	0	0	0	0
(F2) Haines	0	0	0	0	0	0	19	0	0	0
(G) Glacier Bay	125	28	0	0	6	0	0	0	8	0
(H) Yakutat	0	0	0	0	0	7	0	0	0	0
Southeast Total	135	86	17	32	37	73	425	58	14	22
Southcentral										
(J) North Gulf Coast/Prince William Sound ^a	73	29	80	38	8	178	149	23	41	14
(K) Knik Arm	0	0	0	0	0	0	0	0	0	0
(L) Anchorage	0	0	0	0	0	0	0	0	0	0
(M) Susitna River drainage ^a	0	0	0	0	0	0	0	0	0	0
(N) West Cook Inlet drainages ^a	0	0	0	0	0	0	0	0	0	0
(PF) Kenai Peninsula freshwater ^a	0	0	0	0	0	0	0	0	0	0
(PS) Cook Inlet saltwater	78	58	49	167	62	129	581	178	65	28
(Q) Kodiak	76	15	0	90	0	0	0	0	0	0
(R) Alaska Peninsula/Aleutian Islands	0	0	0	0	0	0	0	0	0	0
(S) Kvichak River drainage	0	0	0	0	0	0	0	0	0	0
(T) Nushagak, Wood River and Togiak	0	0	0	0	0	0	0	0	0	0
Southcentral Total	134	65	93	191	62	219	600	180	76	32
Arctic-Yukon-Kuskokwim										
(I) Upper Copper River drainage ^a	0	0	0	0	0	0	0	0	0	0
(U) Tanana River drainage	0	0	0	0	0	0	0	0	0	0
(V) Kuskokwim River/Kuskokwim Bay drainages	0	0	0	0	0	0	0	0	0	0
(W) Seward Peninsula/Norton Sound	0	0	0	0	0	0	0	0	0	0
(X) Northwest Alaska	0	0	0	0	0	0	0	0	0	0
(Y) Yukon River drainage	0	0	0	0	0	0	0	0	0	0
(Z) North Slope/Brooks Range	0	0	0	0	0	0	0	0	0	0
Arctic-Yukon-Kuskokwim Total	0	0	0	0	0	0	0	0	0	0
Alaska Total	191	108	94	193	71	230	712	187	78	39

Note: Estimates include all shark species combined.

^a Area estimates reflect present-day survey area boundaries. Totals may differ from those found in previously published reports due to area boundary changes that have occurred across study years.

Table 2.124.—Alaska sport shark catch estimates, 2008–2017, by region and area.

Region/Area fished	Catch estimates									
	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Southeast										
(A) Ketchikan	14,499	5,157	3,713	1,095	2,849	2,157	6,132	2,914	1,383	996
(B) Prince of Wales Island	3,111	3,009	1,308	1,070	719	916	1,209	1,552	1,863	725
(C) Kake, Petersburg, Wrangell, Stikine	5,279	2,040	1,737	455	681	612	830	1,159	808	346
(D) Sitka	3,157	681	807	780	968	632	786	971	429	357
(E) Juneau	189	141	0	24	30	109	38	17	28	0
(F1) Skagway	0	0	0	0	0	0	0	0	17	0
(F2) Haines	0	0	17	9	0	0	20	0	18	0
(G) Glacier Bay	538	286	30	134	31	51	0	113	90	28
(H) Yakutat	1,333	1,612	1,393	1,047	1,067	567	5,642	2,503	392	464
Southeast Total	28,106	12,926	9,005	4,614	6,345	5,044	14,657	9,229	5,028	2,916
Southcentral										
(J) North Gulf Coast/Prince William Sound ^a	7,963	5,136	8,673	4,687	2,226	3,164	6,102	3,523	1,601	1,475
(K) Knik Arm	0	0	0	0	0	0	0	0	0	0
(L) Anchorage	0	0	0	0	0	0	0	0	0	0
(M) Susitna River drainage ^a	0	0	0	0	0	0	0	0	0	0
(N) West Cook Inlet drainages ^a	0	0	0	0	0	0	0	0	0	0
(PF) Kenai Peninsula freshwater ^a	0	0	0	0	0	0	0	0	0	0
(PS) Cook Inlet saltwater	15,142	14,175	11,594	4,508	4,314	3,335	8,914	7,593	9,532	5,119
(Q) Kodiak	1,379	860	488	333	364	202	437	98	249	161
(R) Alaska Peninsula/Aleutian Islands	410	0	13	9	7	16	0	0	0	0
(S) Kvichak River drainage	0	0	0	0	0	0	0	0	0	0
(T) Nushagak, Wood River and Togiak	0	0	0	0	0	0	0	0	0	0
Southcentral Total	24,894	20,171	20,768	9,537	6,911	6,717	15,453	11,214	11,382	6,755
Arctic-Yukon-Kuskokwim										
(I) Upper Copper River drainage ^a	0	0	0	0	0	0	0	0	0	0
(U) Tanana River drainage	0	0	0	0	0	0	0	0	0	0
(V) Kuskokwim River/Kuskokwim Bay drainages	0	0	0	0	0	0	0	0	0	0
(W) Seward Peninsula/Norton Sound	0	0	0	0	0	0	0	0	0	0
(X) Northwest Alaska	0	0	0	0	0	0	0	0	0	0
(Y) Yukon River drainage	0	0	0	0	0	0	0	0	0	0
(Z) North Slope/Brooks Range	0	0	0	0	0	0	0	0	0	0
Arctic-Yukon-Kuskokwim Total	0	0	0	0	0	0	0	0	0	0
Alaska Total	53,000	33,097	29,773	14,151	13,256	11,761	30,110	20,443	16,410	9,671

Note: Estimates include all shark species combined.

^a Area estimates reflect present-day survey area boundaries. Totals may differ from those found in previously published reports due to area boundary changes that have occurred across study years.

Table 2.125.—Alaska sport shark catch estimate **standard errors**, 2008–2017, by region and area.

Region/Area fished	Catch estimate standard errors									
	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Southeast										
(A) Ketchikan	3,177	1,307	1,019	311	482	387	1,713	748	265	268
(B) Prince of Wales Island	1,658	1,551	526	280	159	207	298	360	748	188
(C) Kake, Petersburg, Wrangell, Stikine	2,684	855	583	150	219	140	266	350	236	112
(D) Sitka	895	199	255	305	208	140	273	244	79	81
(E) Juneau	140	144	0	15	16	62	26	16	17	0
(F1) Skagway	0	0	0	0	0	0	0	0	17	0
(F2) Haines	0	0	16	9	0	0	19	0	18	0
(G) Glacier Bay	499	117	32	91	17	29	0	52	42	29
(H) Yakutat	476	589	503	389	322	200	2,050	983	173	199
Southeast Total	4,810	2,227	1,446	664	671	527	2,760	1,396	841	415
Southcentral										
(J) North Gulf Coast/Prince William Sound ^a	1,075	1,599	1,706	777	458	680	1,024	677	333	354
(K) Knik Arm	0	0	0	0	0	0	0	0	0	0
(L) Anchorage	0	0	0	0	0	0	0	0	0	0
(M) Susitna River drainage ^a	0	0	0	0	0	0	0	0	0	0
(N) West Cook Inlet drainages ^a	0	0	0	0	0	0	0	0	0	0
(PF) Kenai Peninsula freshwater ^a	0	0	0	0	0	0	0	0	0	0
(PS) Cook Inlet saltwater	2,131	1,630	1,483	595	559	511	2,107	1,068	1,220	722
(Q) Kodiak	394	364	158	139	114	59	127	44	122	82
(R) Alaska Peninsula/Aleutian Islands	419	0	13	10	8	12	0	0	0	0
(S) Kvichak River drainage	0	0	0	0	0	0	0	0	0	0
(T) Nushagak, Wood River and Togiak	0	0	0	0	0	0	0	0	0	0
Southcentral Total	2,484	2,270	2,231	972	718	845	2,275	1,263	1,271	793
Arctic-Yukon-Kuskokwim										
(I) Upper Copper River drainage ^a	0	0	0	0	0	0	0	0	0	0
(U) Tanana River drainage	0	0	0	0	0	0	0	0	0	0
(V) Kuskokwim River/Kuskokwim Bay drainages	0	0	0	0	0	0	0	0	0	0
(W) Seward Peninsula/Norton Sound	0	0	0	0	0	0	0	0	0	0
(X) Northwest Alaska	0	0	0	0	0	0	0	0	0	0
(Y) Yukon River drainage	0	0	0	0	0	0	0	0	0	0
(Z) North Slope/Brooks Range	0	0	0	0	0	0	0	0	0	0
Arctic-Yukon-Kuskokwim Total	0	0	0	0	0	0	0	0	0	0
Alaska Total	5,425	3,227	2,570	1,159	1,002	987	3,534	1,924	1,550	884

Note: Estimates include all shark species combined.

^a Area estimates reflect present-day survey area boundaries. Totals may differ from those found in previously published reports due to area boundary changes that have occurred across study years.

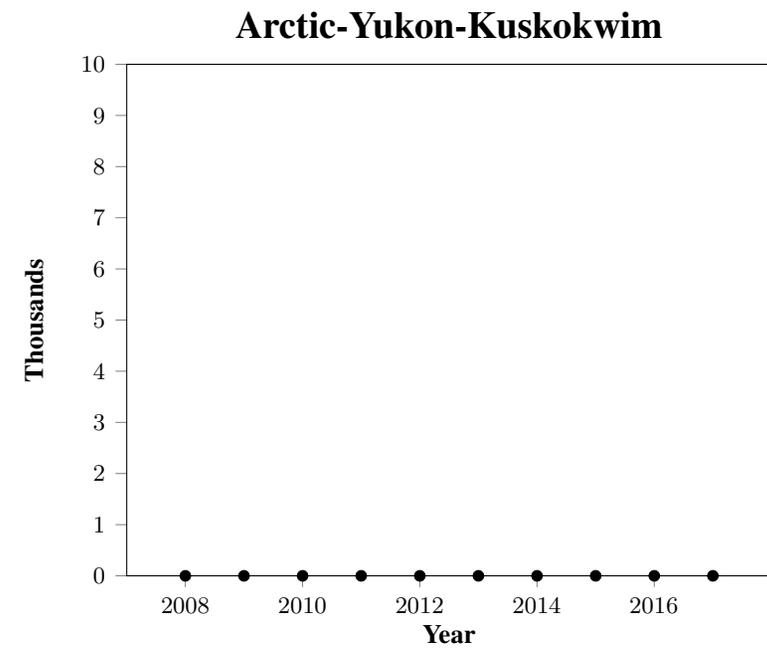
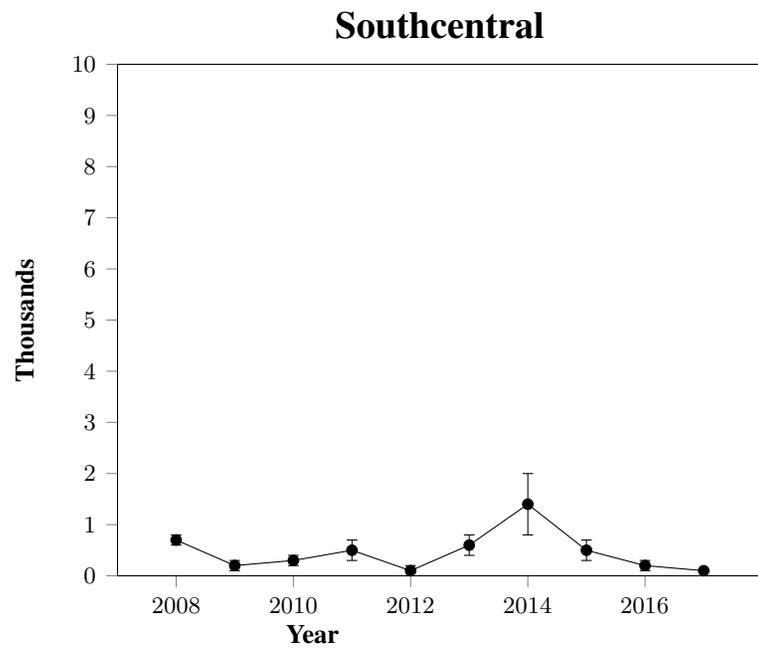
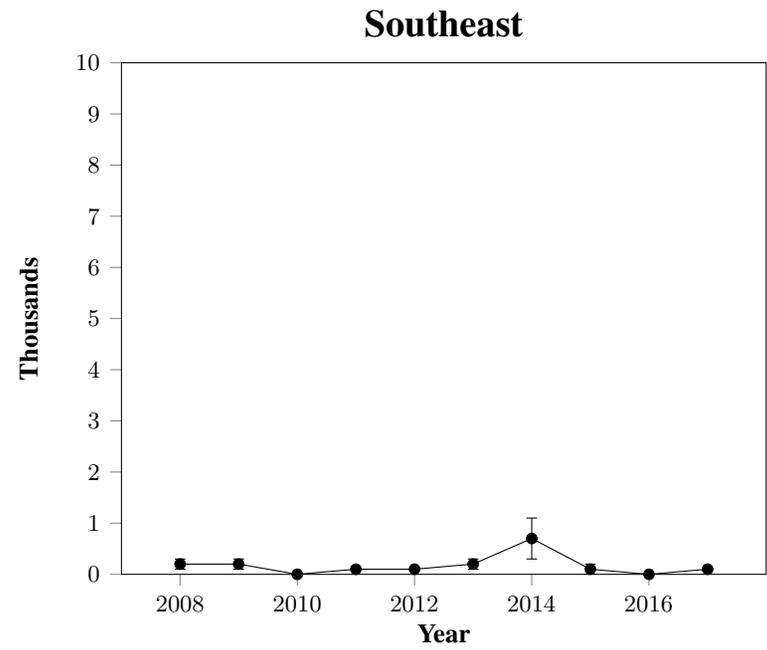
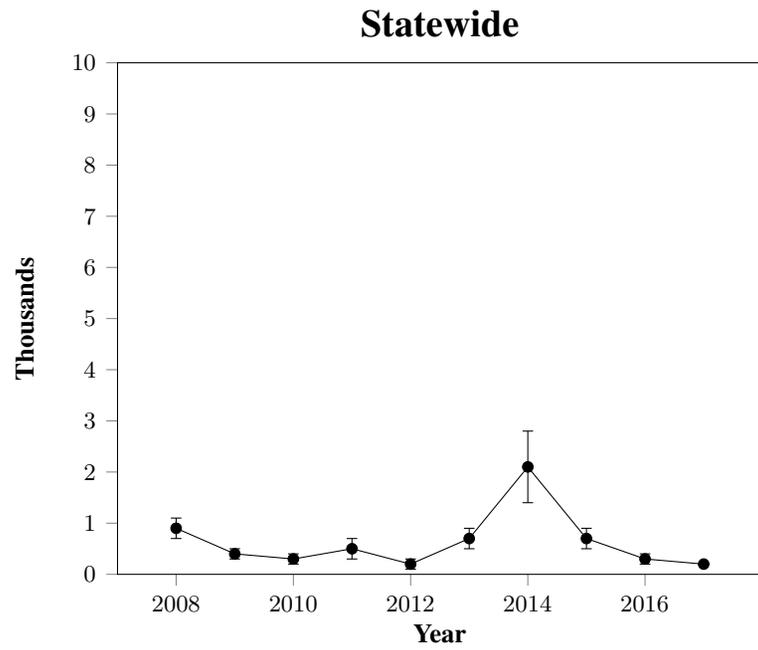


Figure 2.47.—Alaska sport shark harvest estimates and standard errors, 2008–2017, by region.

Note: Trends in harvest estimates can reflect changes in the abundance of fish, changes in angler effort, fishery management actions that reduce or liberalize harvest, or a combination of these and other factors.

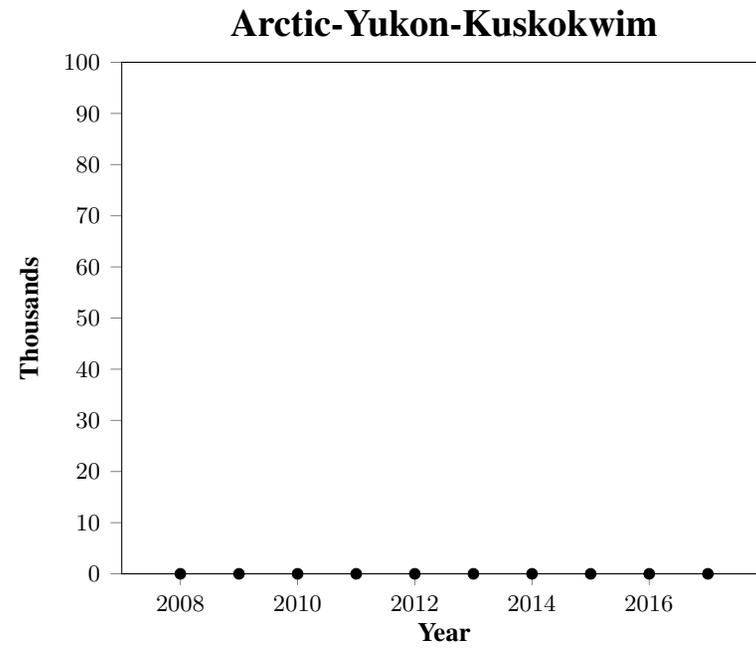
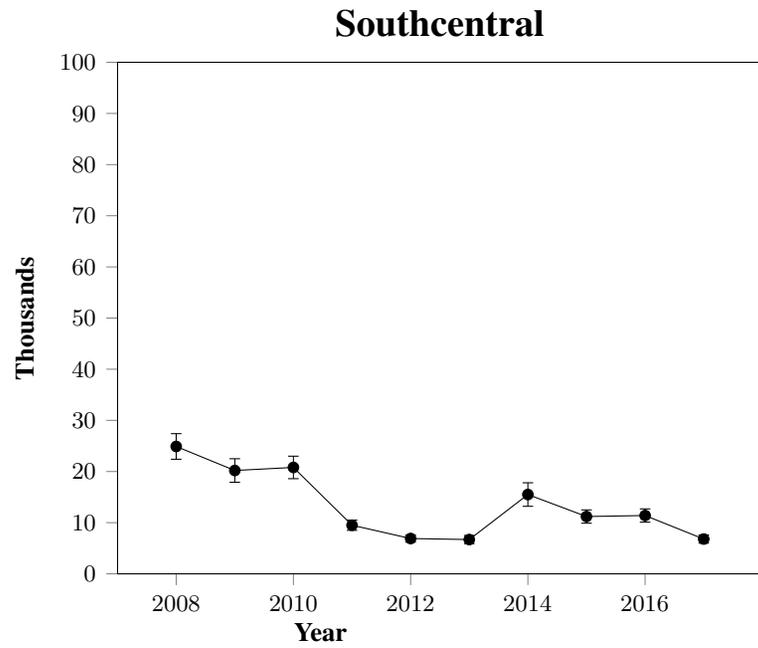
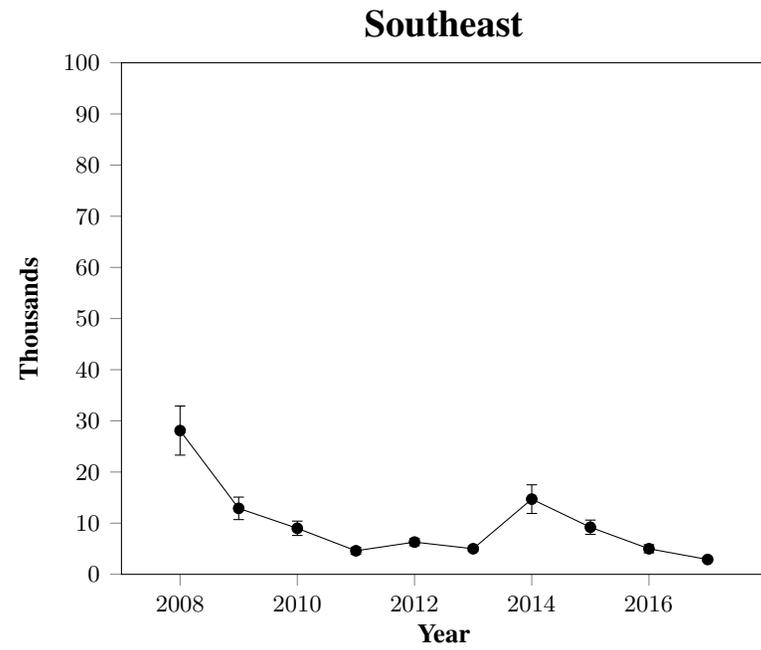
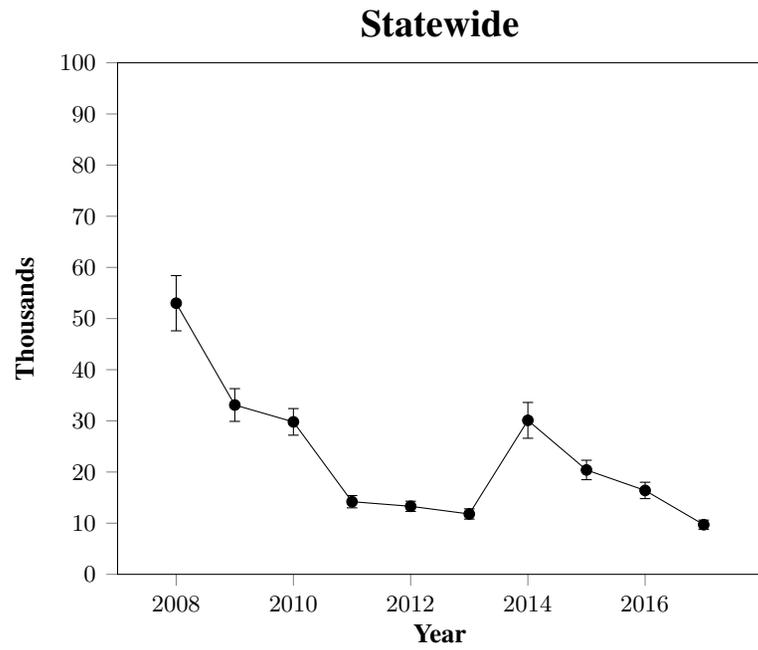


Figure 2.48.—Alaska sport shark catch estimates and standard errors, 2008–2017, by region.

Note: Trends in catch estimates can reflect changes in the abundance of fish, changes in angler effort, fishery management actions that reduce or liberalize harvest, or a combination of these and other factors.

Table 2.126.—Alaska sport razor clam harvest estimates, 2008–2017, by region and area.

Region/Area fished	Harvest estimates									
	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Southeast										
(A) Ketchikan	1,738	230	0	0	0	0	0	0	0	0
(B) Prince of Wales Island	0	0	0	0	0	156	0	15	191	0
(C) Kake, Petersburg, Wrangell, Stikine	0	0	0	0	0	0	0	0	0	0
(D) Sitka	0	0	0	0	0	322	0	0	0	0
(E) Juneau	0	0	0	0	0	0	242	0	0	0
(F1) Skagway	0	0	0	0	0	0	0	0	0	0
(F2) Haines	0	0	0	0	0	0	0	0	0	0
(G) Glacier Bay	0	0	0	0	0	0	0	0	0	0
(H) Yakutat	0	0	0	0	0	0	0	0	0	34
Southeast Total	1,738	230	0	0	0	478	242	15	191	34
Southcentral										
(J) North Gulf Coast/Prince William Sound ^a	4,501	0	0	337	7,200	172	0	451	0	309
(K) Knik Arm	0	0	0	0	0	0	0	0	0	0
(L) Anchorage	0	0	0	0	0	0	0	0	0	0
(M) Susitna River drainage ^a	0	0	0	0	0	0	0	0	0	0
(N) West Cook Inlet drainages ^a	0	0	0	0	0	0	0	0	0	0
(PF) Kenai Peninsula freshwater ^a	0	0	0	0	0	0	0	0	0	0
(PS) Cook Inlet saltwater	0	0	0	0	0	0	0	0	0	0
(PX) Cook Inlet shellfish	580,897	553,490	355,314	435,203	316,029	290,470	88,458	38,307	76,207	14,863
(Q) Kodiak	1,163	179	356	0	592	0	850	0	402	84
(R) Alaska Peninsula/Aleutian Islands	1,537	2,123	0	0	0	0	0	22	312	0
(S) Kvichak River drainage	0	0	0	0	0	0	0	0	0	0
(T) Nushagak, Wood River and Togiak	0	0	0	315	0	0	575	0	0	0
Southcentral Total	588,098	555,792	355,670	435,855	323,821	290,642	89,883	38,780	76,921	15,256
Arctic-Yukon-Kuskokwim										
(I) Upper Copper River drainage ^a	0	0	0	0	0	0	0	0	0	0
(U) Tanana River drainage	0	0	0	0	0	0	0	0	0	0
(V) Kuskokwim River/Kuskokwim Bay drainages	3,074	0	0	0	0	0	0	0	0	0
(W) Seward Peninsula/Norton Sound	0	0	1,015	0	0	0	0	0	0	0
(X) Northwest Alaska	0	0	0	0	0	0	0	0	0	0
(Y) Yukon River drainage	0	0	0	0	0	0	0	0	0	0
(Z) North Slope/Brooks Range	0	0	0	0	0	0	0	0	0	0
Arctic-Yukon-Kuskokwim Total	3,074	0	1,015	0	0	0	0	0	0	0
Alaska Total	592,910	556,022	356,685	435,855	323,821	291,120	90,125	38,795	77,112	15,290

^a Area estimates reflect present-day survey area boundaries. Totals may differ from those found in previously published reports due to area boundary changes that have occurred across study years.

Table 2.127.—Alaska sport razor clam harvest estimate **standard errors**, 2008–2017, by region and area.

Region/Area fished	Harvest estimate standard errors									
	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Southeast										
(A) Ketchikan	1,659	163	0	0	0	0	0	0	0	0
(B) Prince of Wales Island	0	0	0	0	0	154	0	14	190	0
(C) Kake, Petersburg, Wrangell, Stikine	0	0	0	0	0	0	0	0	0	0
(D) Sitka	0	0	0	0	0	318	0	0	0	0
(E) Juneau	0	0	0	0	0	0	242	0	0	0
(F1) Skagway	0	0	0	0	0	0	0	0	0	0
(F2) Haines	0	0	0	0	0	0	0	0	0	0
(G) Glacier Bay	0	0	0	0	0	0	0	0	0	0
(H) Yakutat	0	0	0	0	0	0	0	0	0	32
Southeast Total	1,659	163	0	0	0	353	242	14	190	32
Southcentral										
(J) North Gulf Coast/Prince William Sound ^a	3,548	0	0	326	7,012	183	0	370	0	280
(K) Knik Arm	0	0	0	0	0	0	0	0	0	0
(L) Anchorage	0	0	0	0	0	0	0	0	0	0
(M) Susitna River drainage ^a	0	0	0	0	0	0	0	0	0	0
(N) West Cook Inlet drainages ^a	0	0	0	0	0	0	0	0	0	0
(PF) Kenai Peninsula freshwater ^a	0	0	0	0	0	0	0	0	0	0
(PS) Cook Inlet saltwater	0	0	0	0	0	0	0	0	0	0
(PX) Cook Inlet shellfish	42,667	41,921	27,511	31,681	26,557	26,021	14,213	8,229	19,552	4,173
(Q) Kodiak	859	176	344	0	311	0	504	0	281	83
(R) Alaska Peninsula/Aleutian Islands	1,597	1,500	0	0	0	0	0	22	307	0
(S) Kvichak River drainage	0	0	0	0	0	0	0	0	0	0
(T) Nushagak, Wood River and Togiak	0	0	0	314	0	0	551	0	0	0
Southcentral Total	42,667	41,990	27,540	31,677	27,723	26,019	14,225	8,225	19,533	4,178
Arctic-Yukon-Kuskokwim										
(I) Upper Copper River drainage ^a	0	0	0	0	0	0	0	0	0	0
(U) Tanana River drainage	0	0	0	0	0	0	0	0	0	0
(V) Kuskokwim River/Kuskokwim Bay drainages	3,194	0	0	0	0	0	0	0	0	0
(W) Seward Peninsula/Norton Sound	0	0	1,027	0	0	0	0	0	0	0
(X) Northwest Alaska	0	0	0	0	0	0	0	0	0	0
(Y) Yukon River drainage	0	0	0	0	0	0	0	0	0	0
(Z) North Slope/Brooks Range	0	0	0	0	0	0	0	0	0	0
Arctic-Yukon-Kuskokwim Total	3,194	0	1,027	0	0	0	0	0	0	0
Alaska Total	42,949	41,991	27,603	31,677	27,723	25,996	14,229	8,225	19,544	4,179

^a Area estimates reflect present-day survey area boundaries. Totals may differ from those found in previously published reports due to area boundary changes that have occurred across study years.

Table 2.128.—Alaska sport razor clam catch estimates, 2008–2017, by region and area.

Region/Area fished	Catch estimates									
	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Southeast										
(A) Ketchikan	1,738	230	0	0	0	0	0	0	0	0
(B) Prince of Wales Island	0	0	0	0	0	156	0	15	191	0
(C) Kake, Petersburg, Wrangell, Stikine	0	0	0	0	0	0	0	0	0	0
(D) Sitka	0	0	0	0	0	322	0	0	16	271
(E) Juneau	0	0	0	0	0	0	242	0	0	0
(F1) Skagway	0	0	0	0	0	0	0	0	0	0
(F2) Haines	0	0	0	0	0	0	0	0	0	0
(G) Glacier Bay	0	0	0	0	0	0	0	0	0	0
(H) Yakutat	0	0	0	0	0	0	0	0	0	34
Southeast Total	1,738	230	0	0	0	478	242	15	207	305
Southcentral										
(J) North Gulf Coast/Prince William Sound ^a	4,501	0	0	337	7,200	172	0	451	0	309
(K) Knik Arm	0	0	0	0	0	0	0	0	0	0
(L) Anchorage	0	0	0	0	0	0	0	0	0	0
(M) Susitna River drainage ^a	0	0	0	0	0	0	0	0	0	0
(N) West Cook Inlet drainages ^a	0	0	0	0	0	0	0	0	0	0
(PF) Kenai Peninsula freshwater ^a	0	0	0	0	0	0	0	0	0	0
(PS) Cook Inlet saltwater	0	0	0	0	0	0	0	0	0	0
(PX) Cook Inlet shellfish	580,897	553,490	355,314	435,203	316,029	293,609	91,075	38,307	79,204	15,282
(Q) Kodiak	1,163	179	356	0	592	0	850	0	402	84
(R) Alaska Peninsula/Aleutian Islands	1,537	2,123	0	0	0	0	0	22	312	0
(S) Kvichak River drainage	0	0	0	0	0	0	0	0	0	0
(T) Nushagak, Wood River and Togiak	0	0	0	315	0	0	575	0	0	0
Southcentral Total	588,098	555,792	355,670	435,855	323,821	293,781	92,500	38,780	79,918	15,675
Arctic-Yukon-Kuskokwim										
(I) Upper Copper River drainage ^a	0	0	0	0	0	0	0	0	0	0
(U) Tanana River drainage	0	0	0	0	0	0	0	0	0	0
(V) Kuskokwim River/Kuskokwim Bay drainages	3,074	0	0	0	0	0	0	0	0	0
(W) Seward Peninsula/Norton Sound	0	0	1,015	0	0	0	0	0	0	0
(X) Northwest Alaska	0	0	0	0	0	0	0	0	0	0
(Y) Yukon River drainage	0	0	0	0	0	0	0	0	0	0
(Z) North Slope/Brooks Range	0	0	0	0	0	0	0	0	0	0
Arctic-Yukon-Kuskokwim Total	3,074	0	1,015	0	0	0	0	0	0	0
Alaska Total	592,910	556,022	356,685	435,855	323,821	294,259	92,742	38,795	80,125	15,980

^a Area estimates reflect present-day survey area boundaries. Totals may differ from those found in previously published reports due to area boundary changes that have occurred across study years.

Table 2.129.—Alaska sport razor clam catch estimate **standard errors**, 2008–2017, by region and area.

Region/Area fished	Catch estimate standard errors									
	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Southeast										
(A) Ketchikan	1,659	163	0	0	0	0	0	0	0	0
(B) Prince of Wales Island	0	0	0	0	0	154	0	14	190	0
(C) Kake, Petersburg, Wrangell, Stikine	0	0	0	0	0	0	0	0	0	0
(D) Sitka	0	0	0	0	0	318	0	0	17	271
(E) Juneau	0	0	0	0	0	0	242	0	0	0
(F1) Skagway	0	0	0	0	0	0	0	0	0	0
(F2) Haines	0	0	0	0	0	0	0	0	0	0
(G) Glacier Bay	0	0	0	0	0	0	0	0	0	0
(H) Yakutat	0	0	0	0	0	0	0	0	0	32
Southeast Total	1,659	163	0	0	0	353	242	14	190	273
Southcentral										
(J) North Gulf Coast/Prince William Sound ^a	3,548	0	0	326	7,012	183	0	370	0	280
(K) Knik Arm	0	0	0	0	0	0	0	0	0	0
(L) Anchorage	0	0	0	0	0	0	0	0	0	0
(M) Susitna River drainage ^a	0	0	0	0	0	0	0	0	0	0
(N) West Cook Inlet drainages ^a	0	0	0	0	0	0	0	0	0	0
(PF) Kenai Peninsula freshwater ^a	0	0	0	0	0	0	0	0	0	0
(PS) Cook Inlet saltwater	0	0	0	0	0	0	0	0	0	0
(PX) Cook Inlet shellfish	42,667	41,921	27,511	31,681	26,557	26,244	14,289	8,229	19,567	4,205
(Q) Kodiak	859	176	344	0	311	0	504	0	281	83
(R) Alaska Peninsula/Aleutian Islands	1,597	1,500	0	0	0	0	0	22	307	0
(S) Kvichak River drainage	0	0	0	0	0	0	0	0	0	0
(T) Nushagak, Wood River and Togiak	0	0	0	314	0	0	551	0	0	0
Southcentral Total	42,667	41,990	27,540	31,677	27,723	26,243	14,303	8,225	19,546	4,210
Arctic-Yukon-Kuskokwim										
(I) Upper Copper River drainage ^a	0	0	0	0	0	0	0	0	0	0
(U) Tanana River drainage	0	0	0	0	0	0	0	0	0	0
(V) Kuskokwim River/Kuskokwim Bay drainages	3,194	0	0	0	0	0	0	0	0	0
(W) Seward Peninsula/Norton Sound	0	0	1,027	0	0	0	0	0	0	0
(X) Northwest Alaska	0	0	0	0	0	0	0	0	0	0
(Y) Yukon River drainage	0	0	0	0	0	0	0	0	0	0
(Z) North Slope/Brooks Range	0	0	0	0	0	0	0	0	0	0
Arctic-Yukon-Kuskokwim Total	3,194	0	1,027	0	0	0	0	0	0	0
Alaska Total	42,949	41,991	27,603	31,677	27,723	26,220	14,307	8,225	19,557	4,205

^a Area estimates reflect present-day survey area boundaries. Totals may differ from those found in previously published reports due to area boundary changes that have occurred across study years.

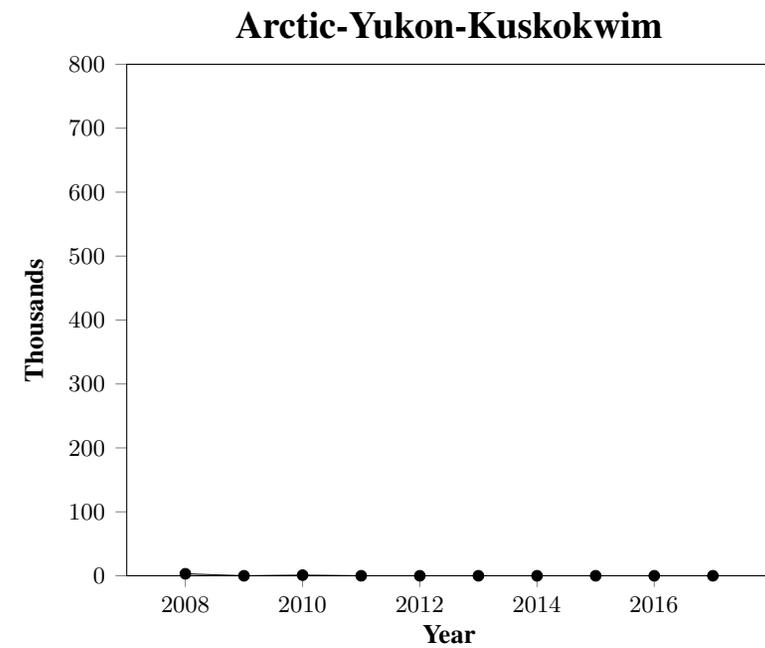
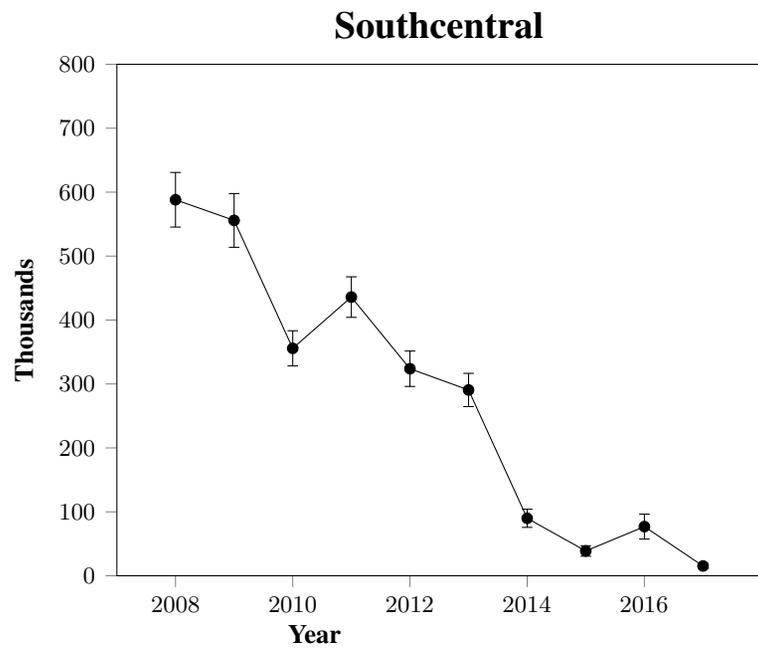
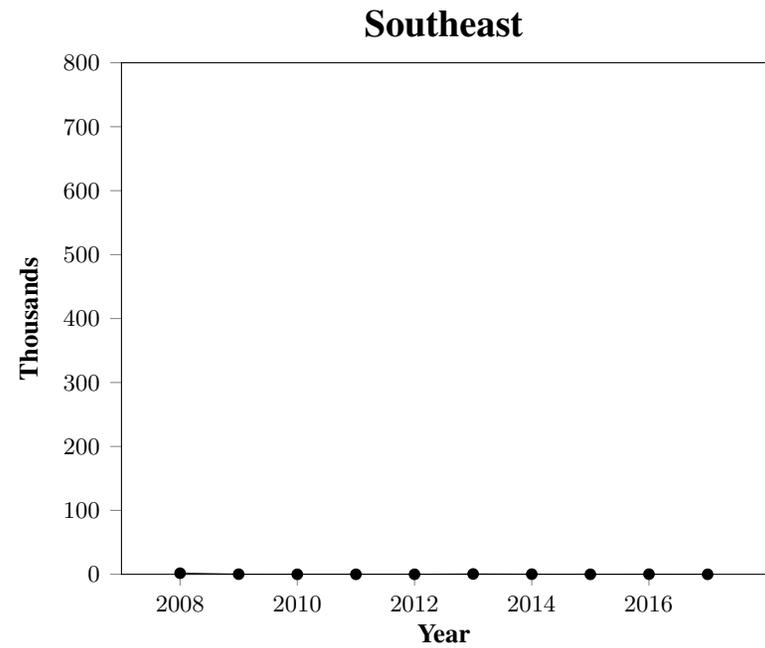
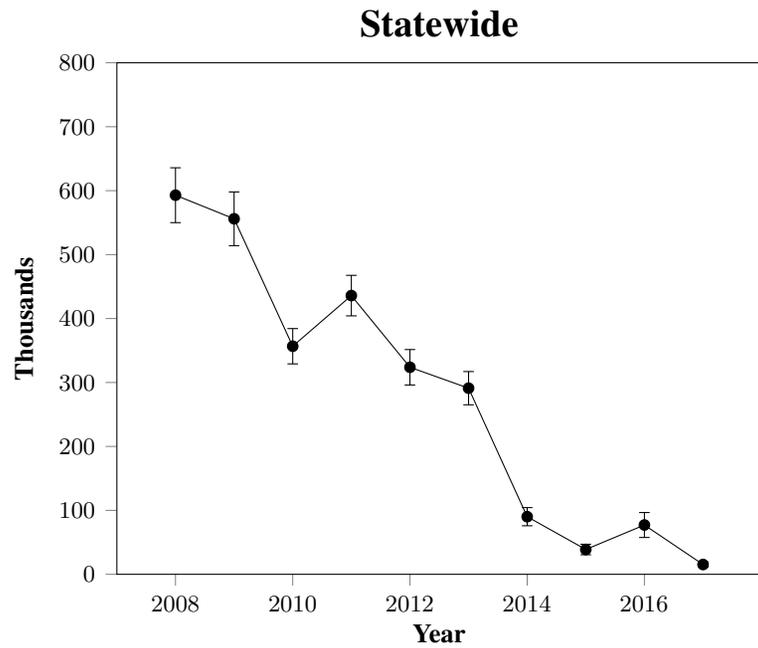


Figure 2.49.—Alaska sport razor clam harvest estimates and standard errors, 2008–2017, by region.

Note: Trends in harvest estimates can reflect changes in the abundance of fish, changes in angler effort, fishery management actions that reduce or liberalize harvest, or a combination of these and other factors.

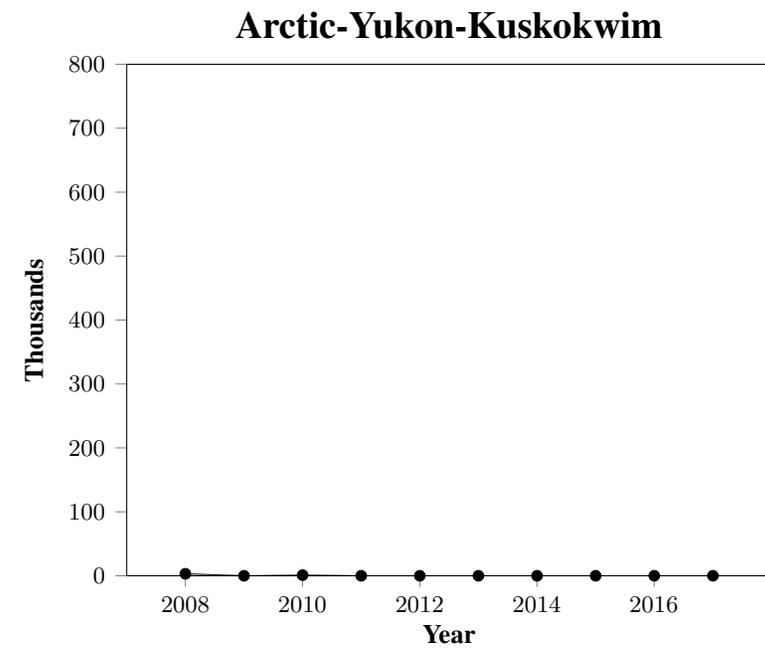
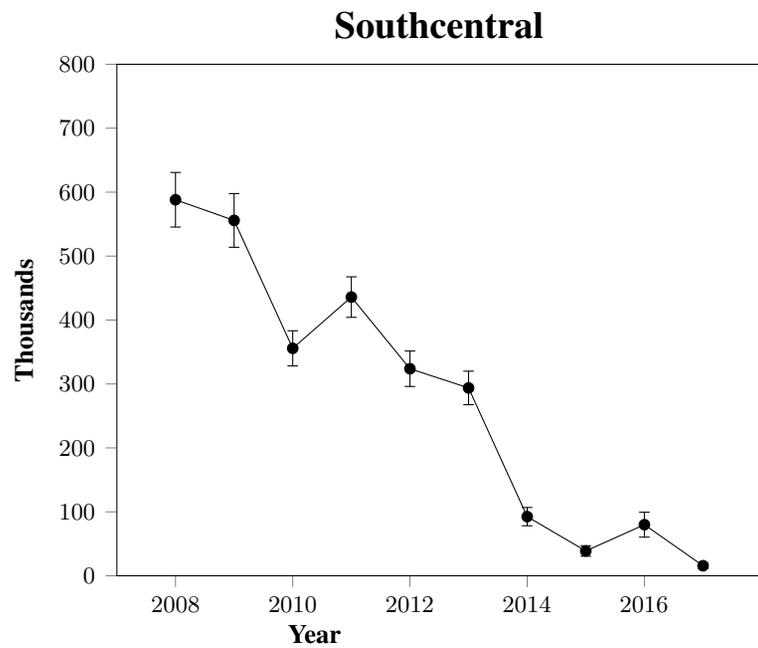
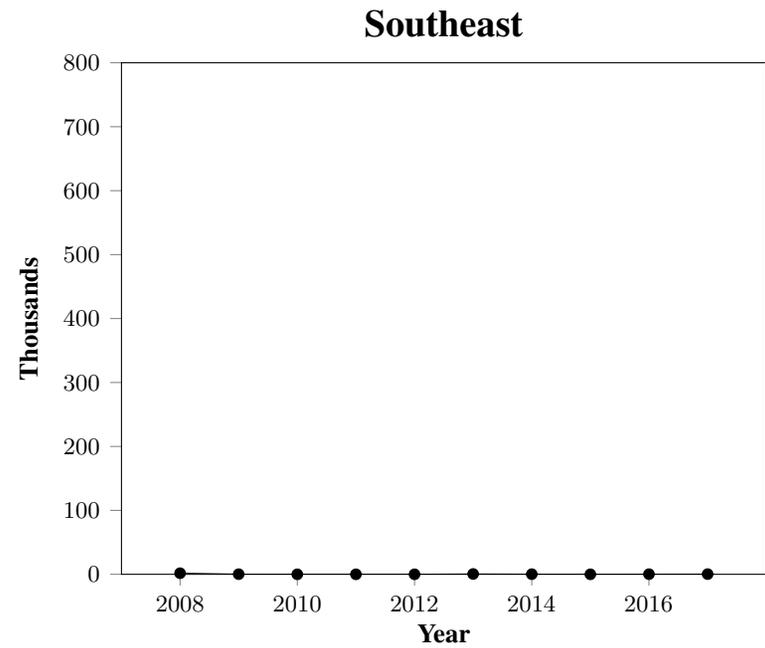
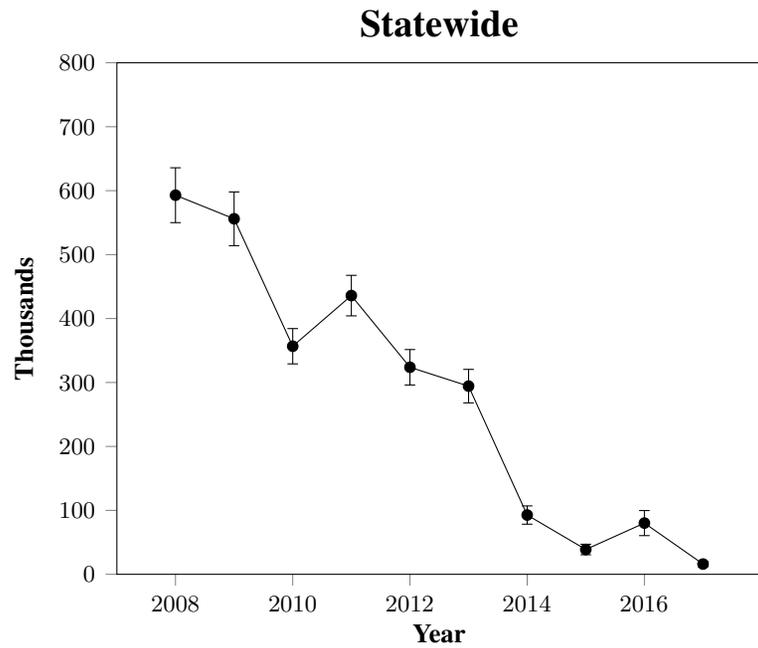


Figure 2.50.—Alaska sport razor clam catch estimates and standard errors, 2008–2017, by region.

Note: Trends in catch estimates can reflect changes in the abundance of fish, changes in angler effort, fishery management actions that reduce or liberalize harvest, or a combination of these and other factors.

Table 2.130.—Alaska sport harvests of other fish harvest estimates, 2008–2017, by region and area.

Region/Area fished	Harvest estimates									
	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Southeast										
(A) Ketchikan	244	339	1,938	158	711	755	439	410	459	800
(B) Prince of Wales Island	222	493	100	533	577	1,243	526	434	1,837	695
(C) Kake, Petersburg, Wrangell, Stikine	46	638	3,414	257	737	200	265	955	341	1,986
(D) Sitka	2,455	896	353	216	310	1,175	1,891	910	1,215	2,280
(E) Juneau	793	1,638	989	470	270	1,605	513	416	913	192
(F1) Skagway	63	0	0	0	0	0	0	0	33	0
(F2) Haines	80	18	197	35	0	331	13	29	0	22
(G) Glacier Bay	219	502	1,013	349	111	440	408	2,190	384	1,117
(H) Yakutat	43	37	159	1,083	17	480	981	179	432	274
Southeast Total	4,165	4,561	8,163	3,101	2,733	6,229	5,036	5,523	5,614	7,366
Southcentral										
(J) North Gulf Coast/Prince William Sound ^a	1,007	1,725	1,269	1,789	2,588	2,914	1,356	1,626	3,769	930
(K) Knik Arm	0	21	0	36	0	0	12	97	0	12
(L) Anchorage	475	218	10	359	0	856	121	816	140	23
(M) Susitna River drainage ^a	158	133	29	182	275	0	31	41	21	0
(N) West Cook Inlet drainages ^a	0	0	0	0	17	0	21	0	0	41
(PF) Kenai Peninsula freshwater ^a	91	164	280	402	1,813	730	345	1,195	757	2,262
(PS) Cook Inlet saltwater	1,388	1,650	2,841	2,774	3,156	4,249	3,549	2,185	1,933	652
(Q) Kodiak	161	461	791	4,066	1,002	885	1,544	1,376	877	855
(R) Alaska Peninsula/Aleutian Islands	0	475	62	382	61	46	120	194	255	0
(S) Kvichak River drainage	0	0	120	0	0	0	0	0	0	0
(T) Nushagak, Wood River and Togiak	0	125	0	0	0	275	618	0	0	0
Southcentral Total	3,280	4,972	5,402	9,990	8,912	9,955	7,717	7,530	7,752	4,775
Arctic-Yukon-Kuskokwim										
(I) Upper Copper River drainage ^a	0	22	0	12	0	21	0	0	0	13
(U) Tanana River drainage	0	0	106	24	84	21	0	261	0	189
(V) Kuskokwim River/Kuskokwim Bay drainages	9	7	10	0	14	0	0	245	194	0
(W) Seward Peninsula/Norton Sound	0	0	10	0	16	0	0	0	451	0
(X) Northwest Alaska	187	66	81	0	761	0	73	0	0	22
(Y) Yukon River drainage	9	65	0	0	0	0	0	0	0	10
(Z) North Slope/Brooks Range	18	0	0	0	0	0	0	0	0	0
Arctic-Yukon-Kuskokwim Total	223	160	207	36	875	42	73	506	645	234
Alaska Total	7,668	9,693	13,772	13,127	12,520	16,226	12,826	13,559	14,011	12,375

^a Area estimates reflect present-day survey area boundaries. Totals may differ from those found in previously published reports due to area boundary changes that have occurred across study years.

Table 2.131.—Alaska sport harvests of other fish harvest estimate **standard errors**, 2008–2017, by region and area.

Region/Area fished	Harvest estimate standard errors									
	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Southeast										
(A) Ketchikan	102	160	1,148	72	270	295	189	156	249	423
(B) Prince of Wales Island	82	294	38	234	177	853	164	197	540	302
(C) Kake, Petersburg, Wrangell, Stikine	39	268	2,731	145	686	146	138	514	175	1,129
(D) Sitka	1,928	485	161	93	99	500	1,218	398	489	2,194
(E) Juneau	298	469	582	174	200	832	189	207	418	80
(F1) Skagway	59	0	0	0	0	0	0	0	34	0
(F2) Haines	57	19	198	35	0	276	12	22	0	15
(G) Glacier Bay	143	238	986	299	81	159	200	2,022	191	889
(H) Yakutat	32	32	135	514	17	265	629	103	215	145
Southeast Total	1,954	813	3,226	696	797	1,405	1,395	2,171	907	2,616
Southcentral										
(J) North Gulf Coast/Prince William Sound ^a	270	475	395	423	1,077	756	485	436	1,434	302
(K) Knik Arm	0	16	0	26	0	0	12	98	0	11
(L) Anchorage	374	118	10	350	0	499	124	575	74	24
(M) Susitna River drainage ^a	136	75	30	162	207	0	31	43	21	0
(N) West Cook Inlet drainages ^a	0	0	0	0	17	0	22	0	0	42
(PF) Kenai Peninsula freshwater ^a	34	61	89	244	1,527	356	158	667	351	597
(PS) Cook Inlet saltwater	361	335	682	1,191	1,110	846	929	536	543	255
(Q) Kodiak	73	308	524	2,337	452	308	491	901	367	654
(R) Alaska Peninsula/Aleutian Islands	0	335	38	260	44	47	63	195	150	0
(S) Kvichak River drainage	0	0	103	0	0	0	0	0	0	0
(T) Nushagak, Wood River and Togiak	0	66	0	0	0	275	583	0	0	0
Southcentral Total	611	775	968	2,753	2,179	1,372	1,310	1,408	1,599	945
Arctic-Yukon-Kuskokwim										
(I) Upper Copper River drainage ^a	0	16	0	12	0	22	0	0	0	12
(U) Tanana River drainage	0	0	60	16	84	22	0	129	0	115
(V) Kuskokwim River/Kuskokwim Bay drainages	10	7	10	0	14	0	0	210	199	0
(W) Seward Peninsula/Norton Sound	0	0	10	0	16	0	0	0	458	0
(X) Northwest Alaska	135	50	57	0	671	0	70	0	0	15
(Y) Yukon River drainage	9	45	0	0	0	0	0	0	0	11
(Z) North Slope/Brooks Range	18	0	0	0	0	0	0	0	0	0
Arctic-Yukon-Kuskokwim Total	136	71	83	20	677	31	70	249	500	117
Alaska Total	2,091	1,130	3,445	2,856	2,405	1,976	1,946	2,604	1,894	2,742

^a Area estimates reflect present-day survey area boundaries. Totals may differ from those found in previously published reports due to area boundary changes that have occurred across study years.

Table 2.132.—Alaska sport harvests of other fish catch estimates, 2008–2017, by region and area.

Region/Area fished	Catch estimates									
	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Southeast										
(A) Ketchikan	1,218	2,358	4,815	1,556	2,167	2,158	2,769	1,780	1,117	1,594
(B) Prince of Wales Island	1,173	1,247	1,984	4,552	1,419	2,956	1,716	1,273	3,294	1,384
(C) Kake, Petersburg, Wrangell, Stikine	526	1,600	4,282	2,378	2,533	3,118	1,372	2,415	2,225	3,412
(D) Sitka	4,059	1,607	535	903	1,502	2,358	2,719	3,326	3,141	2,768
(E) Juneau	1,328	2,636	2,907	2,279	2,239	16,995	2,630	2,207	3,319	2,987
(F1) Skagway	63	0	10	0	0	0	0	0	66	0
(F2) Haines	400	312	798	415	70	546	165	413	31	80
(G) Glacier Bay	811	1,140	1,308	1,090	1,919	1,151	527	2,978	947	1,599
(H) Yakutat	1,166	6,019	912	2,441	225	556	2,099	310	550	574
Southeast Total	10,744	16,919	17,551	15,614	12,074	29,838	13,997	14,702	14,690	14,398
Southcentral										
(J) North Gulf Coast/Prince William Sound ^a	3,535	6,656	4,091	9,488	13,317	10,686	10,744	6,164	11,472	2,859
(K) Knik Arm	21	35	153	48	101	0	24	1,176	83	596
(L) Anchorage	886	410	136	638	50	1,106	1,659	1,137	736	171
(M) Susitna River drainage ^a	283	414	226	263	590	175	51	196	422	31
(N) West Cook Inlet drainages ^a	0	0	69	0	17	0	21	128	117	124
(PF) Kenai Peninsula freshwater ^a	411	457	681	1,796	2,552	2,366	1,110	3,656	1,934	3,948
(PS) Cook Inlet saltwater	5,927	8,724	11,353	12,948	11,222	19,288	11,266	12,665	8,692	3,566
(Q) Kodiak	1,058	2,176	3,585	5,958	4,669	6,832	4,658	4,143	4,623	2,533
(R) Alaska Peninsula/Aleutian Islands	819	2,242	787	4,546	1,023	783	469	1,112	522	379
(S) Kvichak River drainage	399	125	277	34	211	0	187	320	37	0
(T) Nushagak, Wood River and Togiak	21	365	343	44	0	275	1,223	0	0	0
Southcentral Total	13,360	21,604	21,701	35,763	33,752	41,511	31,412	30,697	28,638	14,207
Arctic-Yukon-Kuskokwim										
(I) Upper Copper River drainage ^a	18	22	10	23	0	21	0	0	0	13
(U) Tanana River drainage	0	43	268	47	84	99	48	586	202	436
(V) Kuskokwim River/Kuskokwim Bay drainages	72	45	41	32	31	49	0	303	261	0
(W) Seward Peninsula/Norton Sound	0	66	596	0	16	0	0	16	2,694	0
(X) Northwest Alaska	360	299	633	0	901	0	121	0	0	22
(Y) Yukon River drainage	219	220	0	13	0	43	28	78	389	73
(Z) North Slope/Brooks Range	60	44	195	0	0	0	0	0	0	0
Arctic-Yukon-Kuskokwim Total	729	739	1,743	115	1,032	212	197	983	3,546	544
Alaska Total	24,833	39,262	40,995	51,492	46,858	71,561	45,606	46,382	46,874	29,149

^a Area estimates reflect present-day survey area boundaries. Totals may differ from those found in previously published reports due to area boundary changes that have occurred across study years.

Table 2.133.—Alaska sport harvests of other fish catch estimate **standard errors**, 2008–2017, by region and area.

Region/Area fished	Catch estimate standard errors									
	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Southeast										
(A) Ketchikan	261	573	1,644	343	580	512	948	515	316	496
(B) Prince of Wales Island	375	484	929	1,791	302	1,344	537	363	766	403
(C) Kake, Petersburg, Wrangell, Stikine	198	499	2,748	1,203	873	1,093	471	935	855	1,260
(D) Sitka	2,008	564	178	328	686	731	1,362	961	714	2,206
(E) Juneau	374	617	777	493	681	11,636	1,288	581	1,140	662
(F1) Skagway	59	0	10	0	0	0	0	0	48	0
(F2) Haines	222	174	663	310	52	292	107	192	23	39
(G) Glacier Bay	492	392	997	409	1,518	391	209	2,072	281	921
(H) Yakutat	954	5,571	683	1,199	101	266	1,188	130	289	242
Southeast Total	2,393	5,717	3,679	2,686	2,144	11,727	2,496	2,697	1,875	2,846
Southcentral										
(J) North Gulf Coast/Prince William Sound ^a	588	3,603	877	1,682	2,895	2,478	4,039	1,304	2,646	890
(K) Knik Arm	15	20	157	29	89	0	17	1,181	85	557
(L) Anchorage	524	171	83	422	49	516	977	603	321	80
(M) Susitna River drainage ^a	150	194	110	174	393	117	33	172	319	30
(N) West Cook Inlet drainages ^a	0	0	54	0	17	0	22	122	114	126
(PF) Kenai Peninsula freshwater ^a	139	143	188	913	1,574	816	382	1,408	603	878
(PS) Cook Inlet saltwater	985	1,799	1,835	2,478	1,838	3,513	1,951	2,510	1,353	832
(Q) Kodiak	382	781	1,557	2,390	1,289	1,833	1,214	1,270	1,528	835
(R) Alaska Peninsula/Aleutian Islands	365	1,035	293	3,499	593	311	207	780	302	232
(S) Kvichak River drainage	265	92	219	32	213	0	183	249	40	0
(T) Nushagak, Wood River and Togiak	22	142	231	33	0	275	1,166	0	0	0
Southcentral Total	1,431	4,265	2,647	5,537	4,072	4,619	4,782	3,808	3,332	1,786
Arctic-Yukon-Kuskokwim										
(I) Upper Copper River drainage ^a	18	16	10	17	0	22	0	0	0	12
(U) Tanana River drainage	0	42	117	37	84	53	49	258	103	216
(V) Kuskokwim River/Kuskokwim Bay drainages	65	33	40	22	22	37	0	228	210	0
(W) Seward Peninsula/Norton Sound	0	50	529	0	16	0	0	17	1,889	0
(X) Northwest Alaska	177	233	348	0	759	0	117	0	0	15
(Y) Yukon River drainage	139	109	0	13	0	42	28	77	341	55
(Z) North Slope/Brooks Range	45	34	197	0	0	0	0	0	0	0
Arctic-Yukon-Kuskokwim Total	244	274	675	49	764	79	131	353	1,948	220
Alaska Total	2,809	7,162	4,631	6,055	4,593	12,692	5,548	4,632	4,229	3,341

^a Area estimates reflect present-day survey area boundaries. Totals may differ from those found in previously published reports due to area boundary changes that have occurred across study years.

APPENDIX A. QUESTIONNAIRES AND REMINDERS

ALASKA DEPARTMENT OF FISH AND GAME

2017 Alaska Sport Fishing Survey

Please help us maintain sport fishing opportunities in Alaska by recording your household's 2017 freshwater and saltwater sport fishing activity on the following pages. Please refer to the instructions for completing the survey on page 2 and return the survey in the enclosed envelope.

Thank you!



Alaska Department of Fish and Game
Division of Sport Fish (RTS)
333 Raspberry Road
Anchorage AK 99518
(907) 267-2280
dfg.ds.f.publications@alaska.gov



BOOK 1

HOW TO COMPLETE YOUR SURVEY

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

Page 3

In 2017, did you or members of your household...

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

Page 6

Page 7

Page 8

Page 9

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

Page 10

Page 11

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

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

Page 12

MAPSITE BOOKLET



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

Questions? See detailed instructions on pages 4–5.



GENERAL QUESTIONS

The questions below apply to people in your household who purchased a 2017 Alaska Sport Fishing License:

- 1A. How many people in your household purchased a 2017 Alaska sport fishing license?
- 1B. How many people in 1A (above) sport fished in Alaska in 2017?

The questions below apply to people in your household who are youth OR who have a permanent Alaska Sport Fishing License:

- 2A. How many people in your household under 18 years of age (under 16 if nonresident) sport fished in Alaska in 2017?
- 2B. An Alaska resident 60 years of age and older, or an Alaska resident disabled veteran (DAV) qualifies for a permanent identification card (PID) for Alaska sport fishing. How many people in your household **have** a permanent identification card?
- 2C. How many people in 2B (above) sport fished in Alaska in 2017?

The question below applies to all people in your household and the 2017 sport fishing season:

- 3. How many total people in your household sport fished in Alaska during 2017?

Your comments on sport fishing in Alaska during 2017

DEFINITIONS

Chartered/Guided: A guide/charter provides assistance to a sport fish angler to take or attempt to take fish by accompanying or physically directing the angler in sport fishing activities during any part of a fishing trip. The guide/charter performs this service for compensation, or with the intent to receive compensation. However, a person who provides only transportation services (including air) or rents out vessels or skiffs without directing your fishing activities is not considered a guide or charter operator.

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

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

Subsistence Fisheries: The Alaska Department of Fish and Game recognizes the definition of subsistence fishing to mean the taking of, fishing for, or possession of fish, shellfish, or other fisheries resources by a resident of the state for subsistence uses with gillnet, seine, fish wheel, long line, or other means defined by the Board of Fisheries. Do not report subsistence harvest in this survey.



INSTRUCTIONS

Period covered: January 1 through December 31, 2017.

What if your household did not sport fish in 2017?

- Answer the questions on page 3.
- Return the survey in the postage-paid envelope, so we avoid mailing you additional 2017 surveys.

What if your household did sport fish in 2017?

- Answer the questions on page 3.
- Complete the pages in this booklet that cover the types of sport fishing done by you or your household members. Even if you did not catch any fish, please record the locations that you fished, and the number of anglers and household trips to each location on the appropriate page(s). Use the Mapsite booklet to identify fishing sites visited.
- Return the survey in the postage-paid envelope. We mail up to two reminders to those who do not respond; you can help reduce costs by replying promptly.

Who to include: Report your household's sport fishing only. A "household" is defined as all people sharing a principal place of residence. If you are the one who keeps the fish from a proxy, report that fishing activity as part of your household.

Who to exclude: Do not report fishing by visitors to your home, even if they are family members. Do not report fishing by people renting (subletting) within a home. Do not report fish caught while proxy fishing for someone outside your household.

What to include: Report sport fishing activity for your entire household, including ice fishing activity. Record **Saltwater** and **Freshwater** fishing on the appropriate pages. Shellfish and Personal Use fishing are different from sport fishing and should be reported on page 12.

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

SPORT ANGLERS LIVING OUTSIDE THE UNITED STATES AND CANADA: The postage permit that we have provided is valid only within the United States. Canadian envelopes have return postage affixed. For anglers living outside the U.S and Canada, we ask that you return the survey by supplying your own postage or e-mail a scanned copy of your completed survey to the address listed below.

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

The State of Alaska is an equal opportunity employer and service provider and complies with federal civil rights laws and Alaska Human Rights Law. Individuals with disabilities who require this publication in an alternative format are welcome to contact the Statewide Harvest Survey Program Manager for assistance at 907-267-2280 (individuals with hearing impairments via Alaska Relay at 711 or (800) 770-8973); by e-mail at dfg.dsf.publications@alaska.gov; or by mail to: Statewide Harvest Survey Program, Alaska Department of Fish and Game, 333 Raspberry Road, Anchorage, AK 99518-1599; or the Department's Americans with Disabilities Act Coordinator at 907-465-6077 or V/TTY (800) 478-3648.



KENAI, KASILOF and RUSSIAN RIVER FRESHWATER

See Mapsite Booklet Page 15

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

FRESHWATER GUIDED <i>Guided means you paid to be accompanied or personally directed on your fishing trip</i>	No. of Household Anglers	No. of Household Trips	Sum of Each Household Angler's Days Fished	King Salmon prior to July 1	King Salmon on or after July 1	Silver Salmon prior to Sept. 1	Silver Salmon on or after Sept. 1	Red Salmon prior to July 15	Red Salmon on or after July 15	Pink Salmon	Chum Salmon	Dolly Varden/ Arctic Char	Rainbow Trout	Steel-head Trout	Northern Pike	Smelt	Other (Specify)				
				C	A	C	A	C	A	C	A	C	A	C	A	C	A	C	A	C	A
				U	G	U	G	U	G	U	G	U	G	U	G	U	G	U	G	U	G
1 Kenai River - Cook Inlet to Soldotna Bridge																					
2 Kenai River - Soldotna Bridge to Moose River																					
3 Kenai River - Moose River to Skilak Outlet																					
4 Kenai River - Skilak Inlet to Kenai Lake																					
500 Kasilof River Bank Fishing																					
600 Kasilof River Boat Fishing																					
9 Russian River*																					
FRESHWATER NONGUIDED <i>Nonguided means you did not pay to be accompanied or personally directed on your fishing trip</i>	No. of Household Anglers	No. of Household Trips	Sum of Each Household Angler's Days Fished	King Salmon prior to July 1	King Salmon on or after July 1	Silver Salmon prior to Sept. 1	Silver Salmon on or after Sept. 1	Red Salmon prior to July 15	Red Salmon on or after July 15	Pink Salmon	Chum Salmon	Dolly Varden/ Arctic Char	Rainbow Trout	Steel-head Trout	Northern Pike	Smelt	Other (Specify)				
1 Kenai River - Cook Inlet to Soldotna Bridge																					
2 Kenai River - Soldotna Bridge to Moose River																					
3 Kenai River - Moose River to Skilak Outlet																					
4 Kenai River - Skilak Inlet to Kenai Lake																					
500 Kasilof River Bank Fishing																					
600 Kasilof River Boat Fishing																					
9 Russian River*																					

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



COOK INLET and KACHEMAK BAY SALTWATER

See Mapsite Booklet Page 16

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

SALTWATER CHARTER <i>Charter (guided) means you paid to be accompanied or personally directed on your fishing trip</i>	No. of Household Anglers	No. of Household Trips	Sum of Each Household Angler's Days Fished	Summer King Salmon April 1 - Aug. 31		Winter King Salmon Jan 1 - Mar 31 Sep 1 - Dec 31		Silver (Coho) Salmon	Red (Sockeye) Salmon	Pink Salmon	Chum Salmon	Dolly Varden/ Arctic Char	Steel-head Trout	Halibut	Rockfish	Lingcod	Pacific Cod	Sablefish (Black Cod)	Smelt	Shark	Other (specify)				
				C	A	K	P	C	K	C	K	C	K	C	K	C	K	C	K	C	K	C	K	C	K
				U	G	H	T	U	G	H	T	U	G	H	T	U	G	H	T	U	G	H	T	U	G
980 Upper Cook Inlet north of Bluff and Chinitna Points, including saltwaters by Anchor River, Whiskey Gulch, Deep Creek and Ninilchik River (boat)																									
952 Lower Cook Inlet west of Gore Point not including Kachemak Bay (boat)																									
796 Kachemak Bay from Bluff Point to Seldovia (boat)																									
SALTWATER NONCHARTER <i>Noncharter (nonguided) means you did not pay to be accompanied or personally directed on your fishing trip</i>	No. of Household Anglers	No. of Household Trips	Sum of Each Household Angler's Days Fished	Summer King Salmon April 1 - Aug. 31		Winter King Salmon Jan 1 - Mar 31 Sep 1 - Dec 31		Silver (Coho) Salmon	Red (Sockeye) Salmon	Pink Salmon	Chum Salmon	Dolly Varden/ Arctic Char	Steel-head Trout	Halibut	Rockfish	Lingcod	Pacific Cod	Sablefish (Black Cod)	Smelt	Shark	Other (specify)				
				C	A	K	P	C	K	C	K	C	K	C	K	C	K	C	K	C	K	C	K		
				U	G	H	T	U	G	H	T	U	G	H	T	U	G	H	T	U	G	H	T		
980 Upper Cook Inlet north of Bluff and Chinitna Points, including saltwaters by Anchor River, Whiskey Gulch, Deep Creek and Ninilchik River (boat)																									
981 Upper Cook Inlet fishing from the shore																									
952 Lower Cook Inlet west of Gore Point not including Kachemak Bay (boat)																									
796 Kachemak Bay from Bluff Point to Seldovia (boat)																									
823 Homer Spit (fishing from shore on the Spit)																									
991 Other Shore																									

220



SALTWATER SPORT FISHING

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

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

Saltwater Fishing Sites	See Mapsite Booklet		Fished from		No. of Household Anglers	No. of Household Trips	Sum of Each Household Angler's Days Fished	King Salmon Large*		King Salmon Small*		Silver (Coho) Salmon		Red (Sockeye) Salmon		Pink Salmon		Chum Salmon		Row No.
	Area Code Letter	Site Number	B O A T	S H O R E				C A U G H T	K E E P T	C A U G H T	K E E P T	C A U G H T	K E E P T	C A U G H T	K E E P T	C A U G H T	K E E P T	C A U G H T	K E E P T	

Record additional saltwater species on Page 9

SALTWATER CHARTER — You paid to be personally directed or accompanied during your fishing trip

Example: ABC Inlet	X	999	√		2	2	3					4	2							Example
1																				1
2																				2
3																				3
4																				4
5																				5
6																				6
7																				7
8																				8

SALTWATER NONCHARTER — You did not pay to be personally directed or accompanied during your fishing trip

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

*Saltwater King Salmon Size Categories:

In Area Code Letters A-H, "Large" are king salmon 28 inches and over, and "Small" are king salmon less than 28 inches
In Area Code Letters I-Z, "Large" are king salmon 20 inches and over, and "Small" are king salmon less than 20 inches



SALTWATER SPORT FISHING

Continued from page 8

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

Row No.	Halibut		Rockfish		Lingcod		Sablefish (Black Cod)		Pacific Cod		Steelhead Trout		Dolly Varden/ Arctic Char		Cutthroat Trout		Smelt		Shark		Other Fish (Specify)					
	C	A	C	A	C	A	C	A	C	A	C	A	C	A	C	A	C	A	C	A	Other Fish Name		C	A	K	
	U	G	U	G	U	G	U	G	U	G	U	G	U	G	U	G	U	G	U	G	U	G	U	G	H	T
	H	T	H	T	H	T	H	T	H	T	H	T	H	T	H	T	H	T	H	T	H	T			H	T

SALTWATER CHARTER — You paid to be personally directed or accompanied in your fishing activities

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

SALTWATER NONCHARTER — You did not pay to be personally directed or accompanied during your fishing trip

9																									
10																									
11																									
12																									
13																									
14																									
15																									
16																									
17																									
18																									
19																									

222



FRESHWATER SPORT FISHING

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

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

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

Record additional freshwater species on Page 11

FRESHWATER GUIDED — You paid to be personally directed or accompanied in your fishing activities

Example: ABC Lake	X	999	√		2	2	3						4	2									Example
1																							1
2																							2
3																							3
4																							4
5																							5
6																							6
7																							7
8																							8

FRESHWATER NONGUIDED — You did not pay to be personally directed or accompanied in your fishing activities

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

*Freshwater King Salmon Size Categories:
 In Area Code Letters A-G, "Large" are king salmon 28 inches and over, "Small" are king salmon less than 28 inches.
 In Area Code Letters H-Z, "Large" are king salmon 20 inches and over, "Small" are king salmon less than 20 inches.



FRESHWATER SPORT FISHING

Continued from page 10

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

Row No.	Dolly Varden/ Arctic Char		Rainbow Trout		Steelhead Trout		Cutthroat Trout		Lake Trout		Brook Trout		Arctic Grayling		Northern Pike		Whitefish		Sheefish		Burbot		Smelt		Other Fish (Specify)						
	C	A	C	A	C	A	C	A	C	A	C	A	C	A	C	A	C	A	C	A	C	A	C	A	Other Fish Name		C	A	K	E	P

FRESHWATER GUIDED — You paid to be personally directed or accompanied in your fishing activities

→	Example (Continued)	4	2	1	0										2	2										Example: Alaska Blackfish	2	2	
	1																												
	2																												
→	3																												
	4																												
	5																												
→	6																												
	7																												
	8																												

FRESHWATER NONGUIDED — You did not pay to be personally directed or accompanied in your fishing activities

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

224



SHELLFISH Crabs, Clams, and Shrimp

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

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

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

DO NOT INCLUDE SHELLFISH HARVESTED UNDER SUBSISTENCE REGULATIONS

Fishing Sites	See Mapsite Booklet		No. of Household Anglers	No. of Household Trips	Sum of Each Household Angler's Days Fished	Razor Clams (numbers)	Hardshell Clams (numbers)	Shrimp (gallons)	King Crab	Dungeness Crab	Tanner Crab	Other Shellfish (Specify)		
	Area Code Letter	Site Number				KEPT	KEPT	KEPT	C A U G H T	K E P T	C A U G H T	K E P T	C A U G H T	K E P T
Example: ABC Beach	X	999	2	2	3	20	15	2						Example

RAZOR CLAMS



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

HARDSHELL CLAMS



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



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

PERSONAL USE SALMON DIPNETTING (Alaska Residents Only)

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

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

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

DO NOT INCLUDE FISH HARVESTED UNDER SUBSISTENCE REGULATIONS

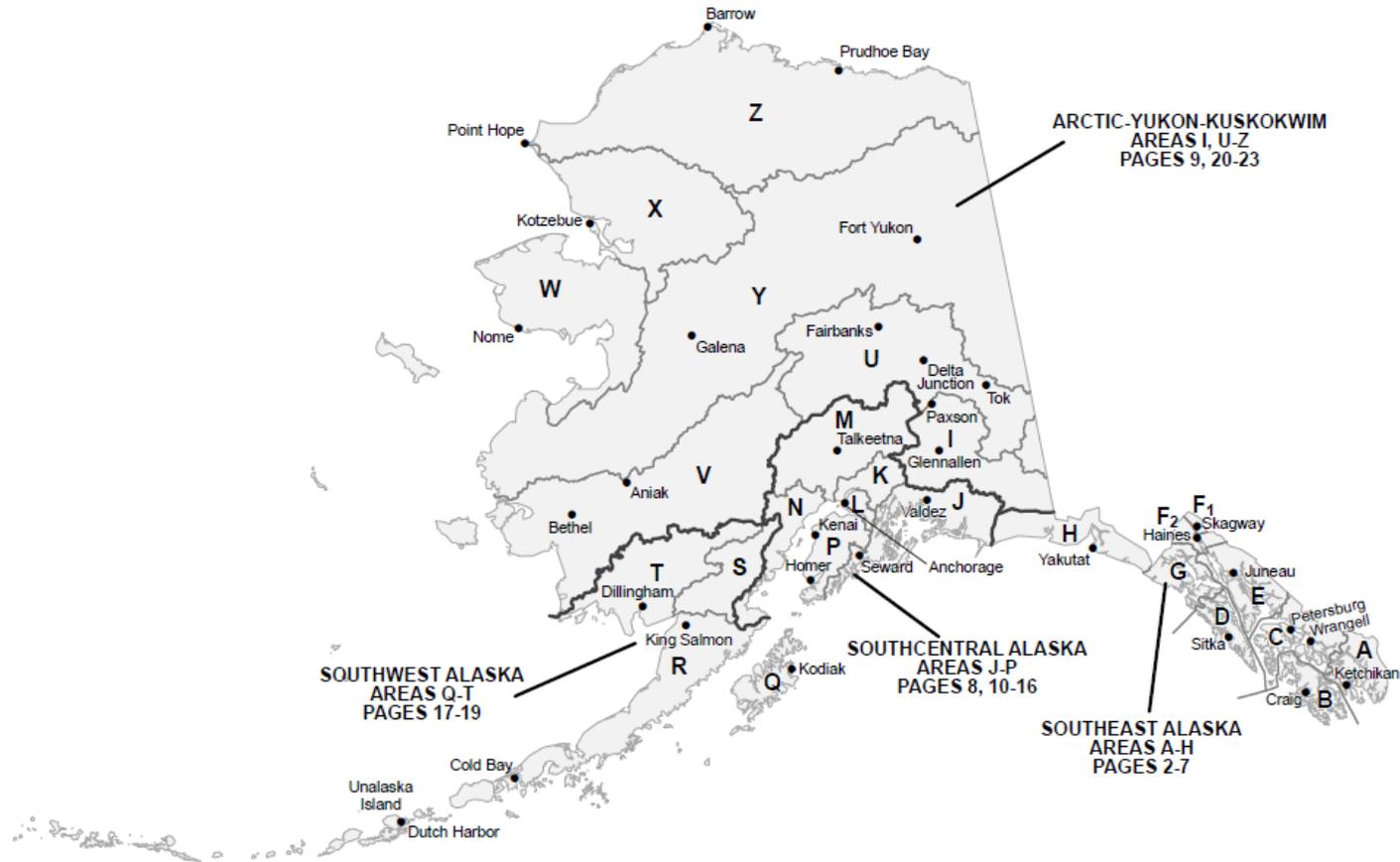
Fishing Sites	See Mapsite Booklet		No. of Household Anglers	No. of Household Trips	Sum of Each Household Angler's Days Fished	King Salmon	Silver (Coho) Salmon	Red (Sockeye) Salmon	Pink Salmon	Chum Salmon	Other (Specify)
	Area Code Letter	Site Number				KEPT	KEPT	KEPT	KEPT	KEPT	KEPT
Example: ABC River	X	999	2	2	3		1	15			Example



MAPSITE BOOKLET

Maps, Area Descriptions, and Fish Size Categories

Use the map below to find the pages that apply to your household's sport fishing in 2017



B PRINCE OF WALES ISLAND AREA

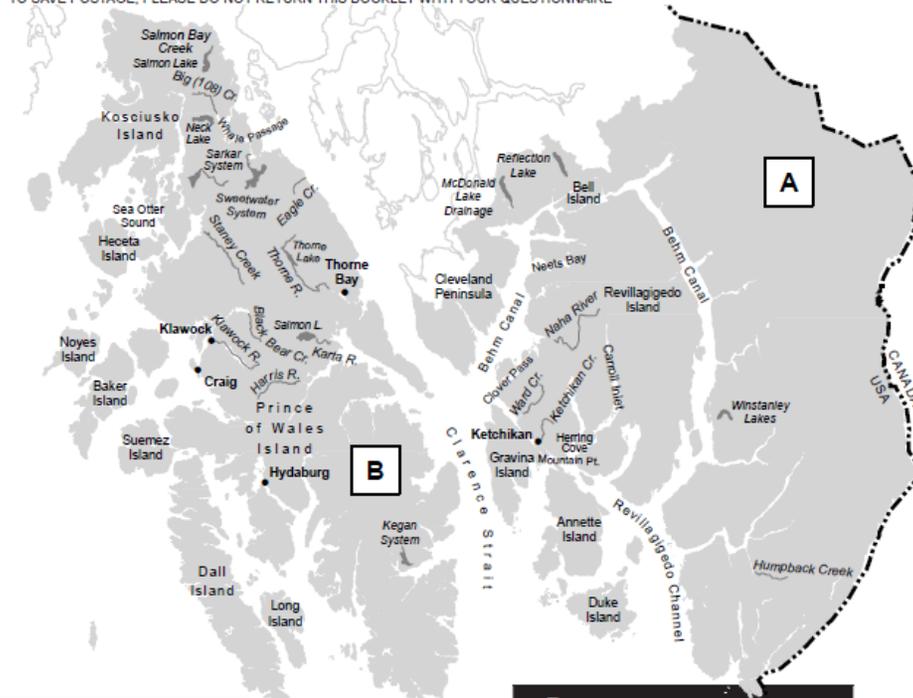
Saltwater

No.	Site Name
760	Craig Area
1055	Neck Lake Outlet fishery
786	Noyes Island
1008	Prince of Wales Island, east side
1010	Prince of Wales Island, west side
724	Sea Otter Sound
766	Dall Island
858	Whale Passage
9991	Other saltwater (specify)

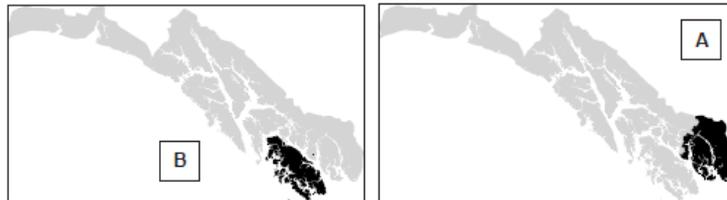
Freshwater

No.	Site Name
216	Big Creek (108 Creek)
115	Black Bear Creek
120	Eagle Creek
124	Harris River
3	Karta River
219	Kegan System (stream, lake)
5	Klawock River
191	Salmon Bay Creek
243	Salmon Lake
220	Sarkar System (stream, lake)
158	Staney Creek
218	Sweetwater System (stream, lake)
217	Thorne System (stream, lake)
9994	Other streams (specify)
9993	Other lakes (specify)

TO SAVE POSTAGE, PLEASE DO NOT RETURN THIS BOOKLET WITH YOUR QUESTIONNAIRE



Fish Size Categories
AREAS A and B KING SALMON
"Large" are 28 inches and over;
"Small" are less than 28 inches.



SOUTHEAST ALASKA

A KETCHIKAN AREA

Saltwater

No.	Site Name
1	Behm Canal, East and West
6	Bell Island
730	Carroll Inlet
2	Clarence Strait
726	Clover Pass
737	Herring Cove Shoreline
1008	Ketchikan Terminal Harvest Area ^a
728	Mountain Point
1012	Neets Bay Terminal Harvest Area ^a
3	Revillagigedo Channel
9991	Other saltwater (specify)

Freshwater

No.	Site Name
134	Humpback Creek
214	Ketchikan Creek
200	McDonald Lake drainage
9	Naha River
165	Reflection Lake
10	Ward Creek
187	Winstanley lakes
9994	Other streams (specify)
9993	Other lakes (specify)

^a Includes the Ketchikan Sport Terminal Harvest Area and Neets Bay Terminal Harvest Area. These terminal harvest areas allow anglers to target Alaska hatchery king salmon with liberalized bag, possession and annual limits.

TO SAVE POSTAGE, PLEASE DO NOT RETURN THIS BOOKLET WITH YOUR QUESTIONNAIRE

C KAKE, PETERSBURG, WRANGELL, STIKINE AREA

Saltwater

PETERSBURG AREA SITES

No.	Site Name
728	Frederick Sound
907	Petersburg road system shoreline sites
906	Petersburg area - other sites (specify)
1	Terminal Harvest Area near Petersburg ^a
758	Thomas Bay
720	Wrangell Narrows

OTHER AREA C SALTWATER SITES

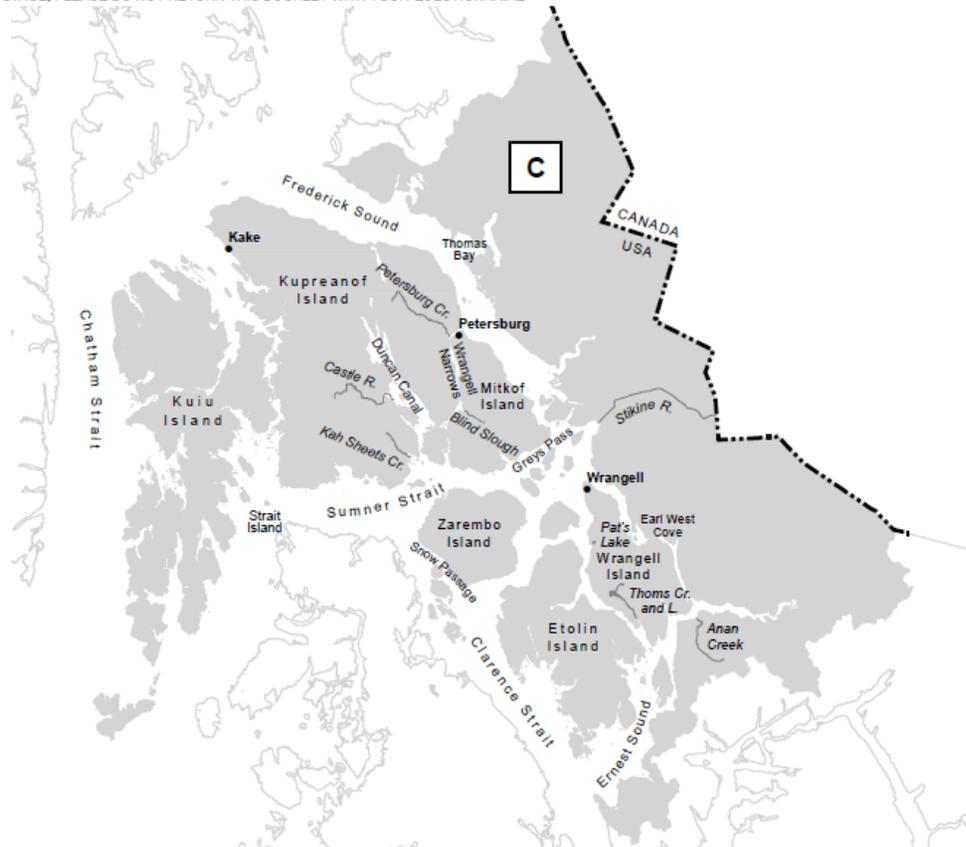
3	Greys Pass/Banana Point
776	Kake Area
798	Snow Passage
794	Sumner Strait from Strait Island to Greys Pass ^a
908	Wrangell area
909	Wrangell road system
766	Zaremba Island
9991	Other saltwater (specify)

Freshwater

No.	Site Name
9	Anan Creek
5	Blind Slough (in Wrangell Narrows)
8	Castle River
147	Kah Sheets Creek
196	Kupreanof Island streams (specify)
194	Mitkof Island streams (specify)
202	Pat's Lake (Trout Lake)
10	Petersburg Creek
175	Stikine River
216	Thoms Creek and Lake
9994	Other streams (specify)
9993	Other lakes (specify)

^a Wrangell Narrows south of 56° 46'N. latitude. (Martinsen's Dock) and north of the latitude of the northern tip of Woewodski Island. A terminal harvest area is where associated boundaries and liberalized harvest limits or methods and means are established by emergency order.

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



Fish Size Categories
 AREA C KING SALMON
 "Large" are 28 inches and over;
 "Small" are less than 28 inches.

TO SAVE POSTAGE, PLEASE DO NOT RETURN THIS BOOKLET WITH YOUR QUESTIONNAIRE

D SITKA AREA

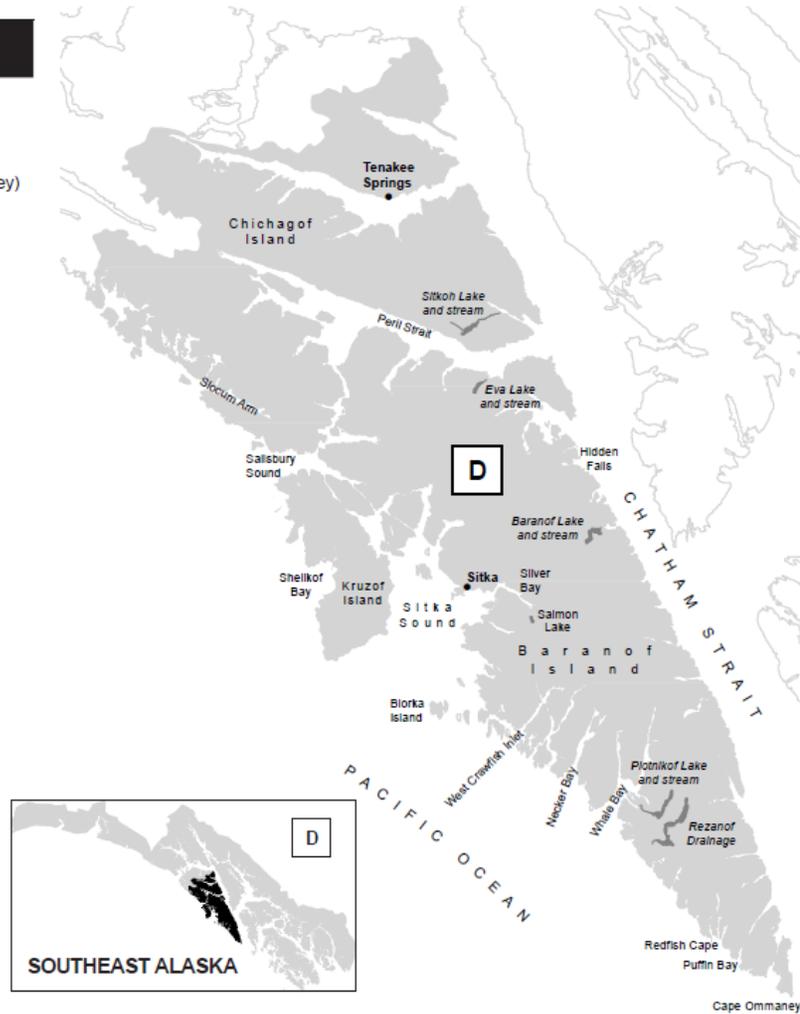
Saltwater

No.	Site Name
1048	Baranof Island, east side
1072	Baranof Island, southwest side (West Crawfish Inlet to Cape Ommaney)
738	Blorka Island
1050	Chichagof Island, west side
1060	Chichagof Island, remainder
850	Hidden Falls
1044	Kruzof Island, outer coast
734	Peril Strait
766	Salisbury Sound
13	Silver Bay
1053	Sitka road system
724	Sitka Sound (specify)
1046	Tenakee area
9991	Other saltwater (specify)

Freshwater

No.	Site Name
186	Baranof Lake (Warm Springs Lake) and stream
8	Eva Lake and stream
231	Plotnikof Lake and stream
232	Rezanof drainage (lakes, streams)
148	Salmon Lake
14	Sitkoh Lake and stream
9994	Other streams (specify)
9993	Other lakes (specify)

Fish Size Categories
 AREA D KING SALMON
 "Large" are 28 inches and over;
 "Small" are less than 28 inches.



TO SAVE POSTAGE, PLEASE DO NOT RETURN THIS BOOKLET WITH YOUR QUESTIONNAIRE

E JUNEAU AREA

Saltwater

No.	Site Name
758	Angoon Area
950	Frederick Sound
1000	Juneau area saltwater sites ^a
956	Juneau, Terminal Harvest Area (THA) ^b
3	Juneau road system shoreline sites
939	Macaulay Hatchery
754	Stephens Passage, lower, south of Doty Cove
9991	Other saltwater (specify)

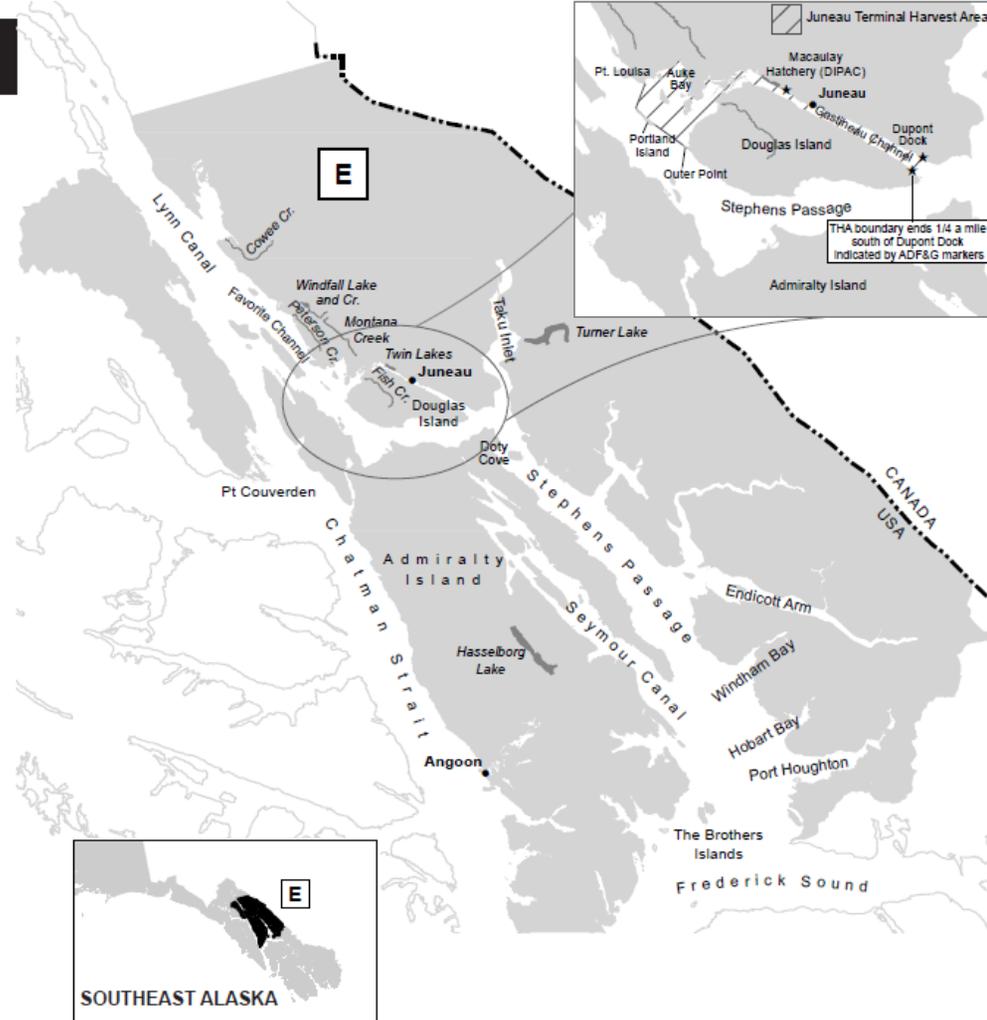
Freshwater

No.	Site Name
213	Cowee Creek (near Echo Cove)
143	Fish Creek (Douglas Island)
9	Hasselborg Lake
6	Juneau road system freshwater sites
168	Montana Creek, including mouth
175	Peterson Creek and Salt Chuck
211	Twin Lakes
11	Turner Lake
223	Windfall Creek
198	Windfall Lake
9994	Other streams (specify)
9993	Other lakes (specify)

^a Lower Lynn Canal south to Pt. Couverden, Favorite Channel, and upper Stephens Passage south to Doty Cove, excluding the Juneau Terminal Harvest Area.

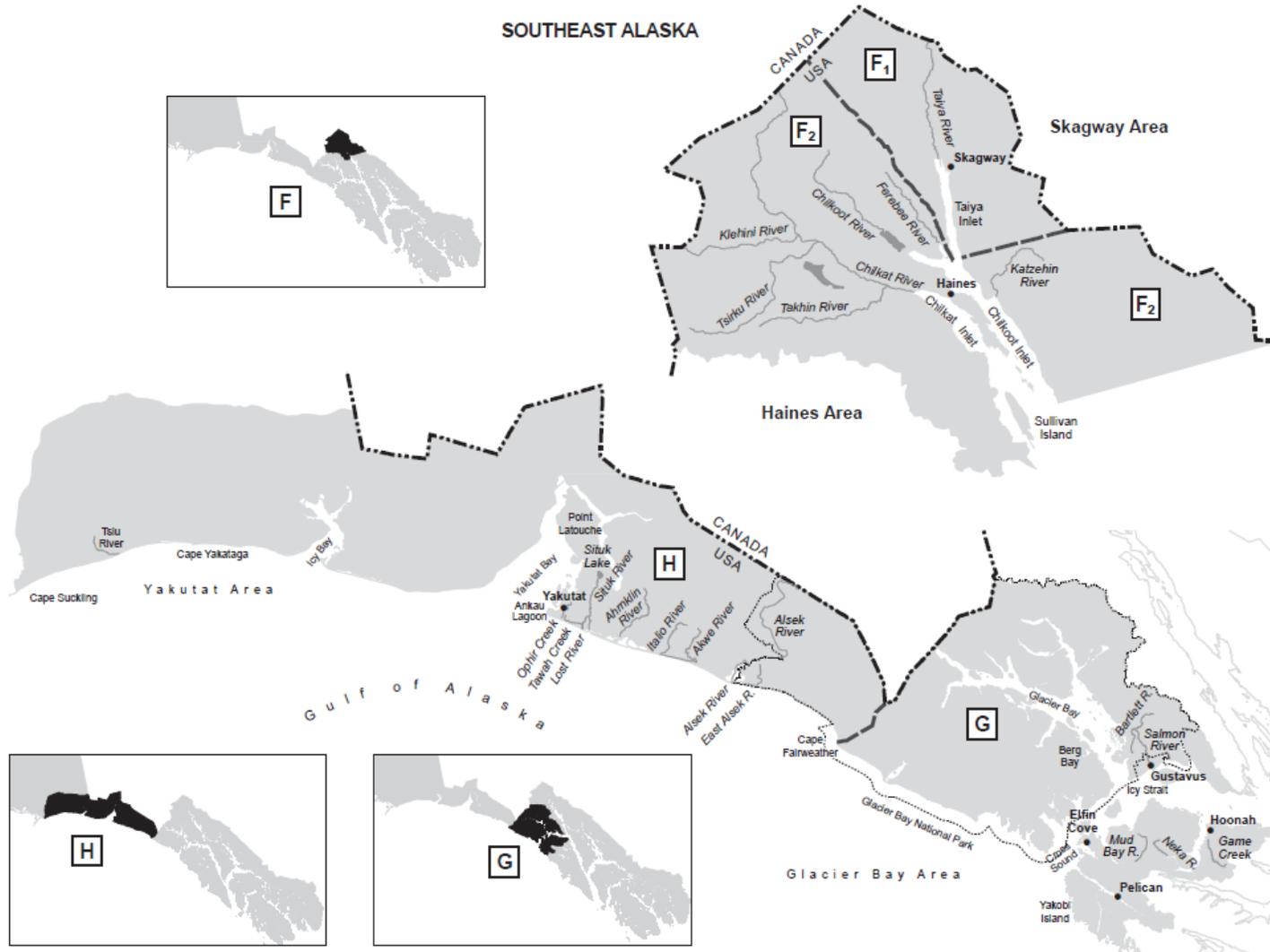
^b Marine waters east of a line from Pt. Louisa to the eastern shore of Portland Island, to the north tip of Outer Point on Douglas Island and the waters west of Dupont (see map at right). A terminal harvest area is where associated boundaries and liberalized harvest limits or methods and means are established by emergency order.

Fish Size Categories
 AREA E KING SALMON
 "Large" are 28 inches and over;
 "Small" are less than 28 inches.



TO SAVE POSTAGE, PLEASE DO NOT RETURN THIS BOOKLET WITH YOUR QUESTIONNAIRE

SOUTHEAST ALASKA



TO SAVE POSTAGE, PLEASE DO NOT RETURN THIS BOOKLET WITH YOUR QUESTIONNAIRE

F1 SKAGWAY AREA

Saltwater Skagway Area

No.	Site Name
736	Taiya Inlet
9991	Other Skagway saltwater (specify)

Freshwater Skagway Area

121	Pullen Creek and Pond
9994	Other Skagway Area streams (specify)
9993	Other Skagway Area lakes (specify)

F2 HAINES AREA

Saltwater Haines Area

No.	Site Name
730	Chilkat Inlet
732	Chilkoot Inlet
9991	Other Haines saltwater (specify)

Freshwater Haines Area

130	Chilkat Lake
107	Chilkat River
5	Chilkoot Lake
3	Chilkoot River
9994	Other Haines Area streams (specify)
9993	Other Haines Area lakes (specify)

Fish Size Categories
AREA F KING SALMON
"Large" are 28 inches and over;
"Small" are less than 28 inches.

G GLACIER BAY AREA

Saltwater

No.	Site Name
768	Berg Bay
804	Chichagof Island, north side
970	Cross Sound (NOT within Glacier Bay National Park)
972	Glacier Bay National Park (NOT within Glacier Bay proper) ^a
736	Glacier Bay proper (INSIDE Glacier Bay National Park) ^a
740	Gustavus area
802	Homeshore area
908	Hoonah area
968	Icy Strait (NOT within Glacier Bay National Park)
800	Yakobi Island, outer coast
9991	Other saltwater (specify)

Freshwater

No.	Site Name
105	Bartlett River
128	Game Creek
127	Mud Bay River
129	Neka River
110	Salmon River
9994	Other streams (specify)
9993	Other lakes (specify)

^a Glacier Bay proper is described as all marine contiguous water inside or north of a line from Pt. Carolus and Pt. Gustavus.

Fish Size Categories
AREA G KING SALMON
"Large" are 28 inches and over;
"Small" are less than 28 inches.

H YAKUTAT AREA

Saltwater

No.	Site Name
750	Ankau Lagoon
724	Yakutat Bay
9991	Other saltwater (specify)

Freshwater

No.	Site Name
147	Ahmklin River
107	Akwe River
135	East Alsek River
117	Italio River
120	Lost River
148	Situk River, above weir ^a
149	Situk River, below weir ^a
132	Tawah Creek
134	Tsiu River
9994	Other streams (specify)
9993	Other lakes (specify)

^a The Situk weir is located near the river mouth approximately 1.5 miles above the Situk Landing.

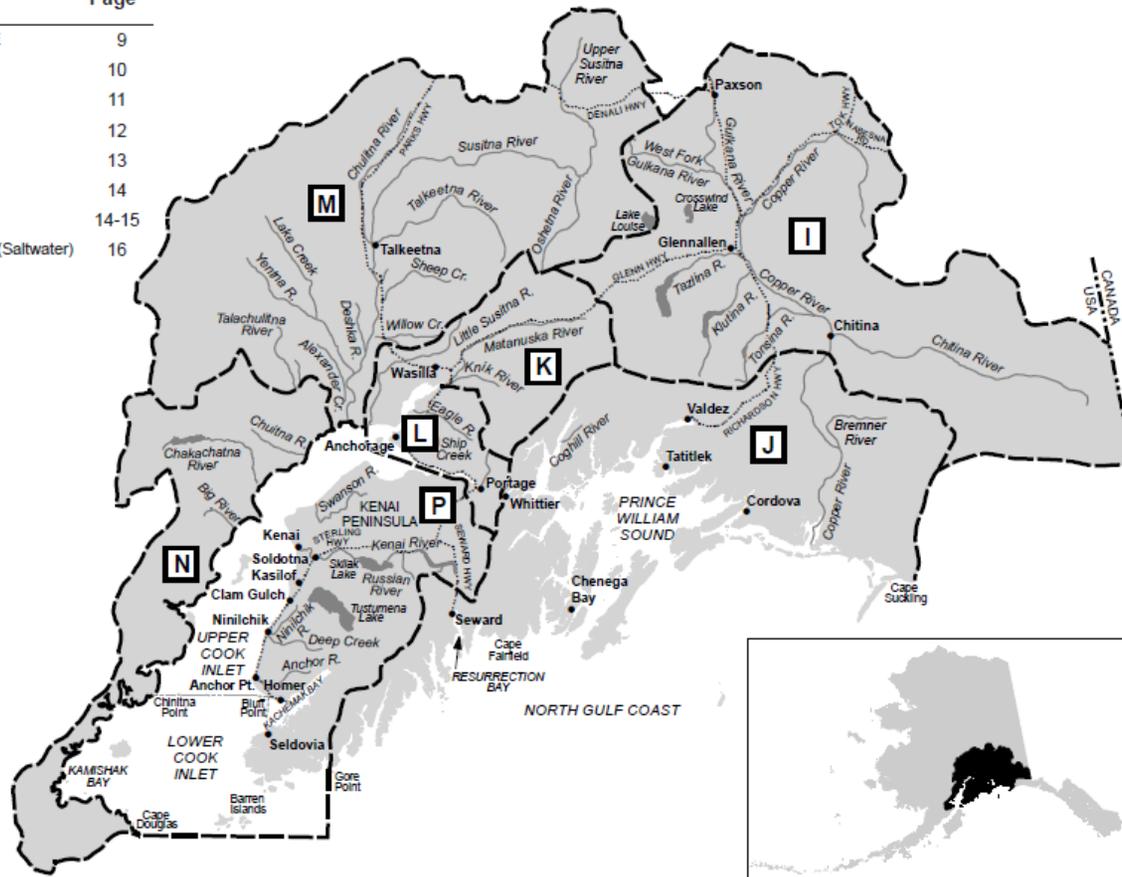
Fish Size Categories
AREA H KING SALMON
Saltwater
"Large" are 28 inches and over;
"Small" are less than 28 inches.
Freshwater
"Large" are 20 inches and over;
"Small" are less than 20 inches.

TO SAVE POSTAGE, PLEASE DO NOT RETURN THIS BOOKLET WITH YOUR QUESTIONNAIRE

SPORT FISH SURVEY AREAS I - P

SOUTHCENTRAL ALASKA INDEX

Area Code Letter	Area Description	Page
I	UPPER COPPER RIVER DRAINAGE	9
J	PRINCE WILLIAM SOUND/	10
K	KNIK ARM	11
L	ANCHORAGE	12
M	SUSITNA RIVER DRAINAGE	13
N	WEST COOK INLET (Freshwater)	14
P	KENAI PENINSULA (Freshwater)	14-15
P	COOK INLET and KACHEMAK BAY (Saltwater)	16



TO SAVE POSTAGE, PLEASE DO NOT RETURN THIS BOOKLET WITH YOUR QUESTIONNAIRE

I UPPER COPPER RIVER DRAINAGE SPORTFISHING

Freshwater

No.	Site Name
8	Crosswind Lake
650	Gulkana River (above Paxson Lake)
501	Gulkana River (Paxson Lake outlet to Counting Tower)
502	Gulkana River (Counting Tower to West Fork mouth)
600	Gulkana River (West Fork mouth to Richardson Hwy)
16	Gulkana River (Richardson Hwy to Copper River)
371	Middle Fork Gulkana River
372	West Fork Gulkana River
416	Klutina River
212	Mendeltna Creek
13	Paxson Lake
4	Silver Lake
14	Summit Lake (near Paxson)
398	Tolsona Lake
287	Tonsina River
9994	Other streams (specify)
9993	Other lakes (specify)



I₁ UPPER COPPER RIVER DRAINAGE PERSONAL USE DIPNET FISHERY

Personal Use DIPNET FISHERY

No.	Site Name
9010	Copper River (near Chitina) Do not include fishwheel or subsistence dipnetting

Fish Size Categories
 AREA I KING SALMON
 "Large" are 20 inches and over;
 "Small" are less than 20 inches.

TO SAVE POSTAGE, PLEASE DO NOT RETURN THIS BOOKLET WITH YOUR QUESTIONNAIRE

**J PRINCE WILLIAM SOUND/
NORTH GULF COAST**
SALTWATER SPORTFISHING FROM BOAT

Boat Trip ENDED in Seward - Fish were caught in:

No.	Site Name
1101	Resurrection Bay
1105	North Gulf Coast west of Aialik Cape
1106	North Gulf Coast east of Aialik Cape
1103	Western Prince William Sound
1104	Other site (specify)

Boat Trip ENDED in Whittier, Chenega, or other site in Western Prince William Sound - Fish were caught in:

No.	Site Name
1200	Passage Canal and Blackstone Bay
1201	Western Prince William Sound (outside Passage Canal and Blackstone Bay)
1202	Eastern Prince William Sound
1203	Other site (specify)

Boat Trip ENDED in Valdez - Fish were caught in:

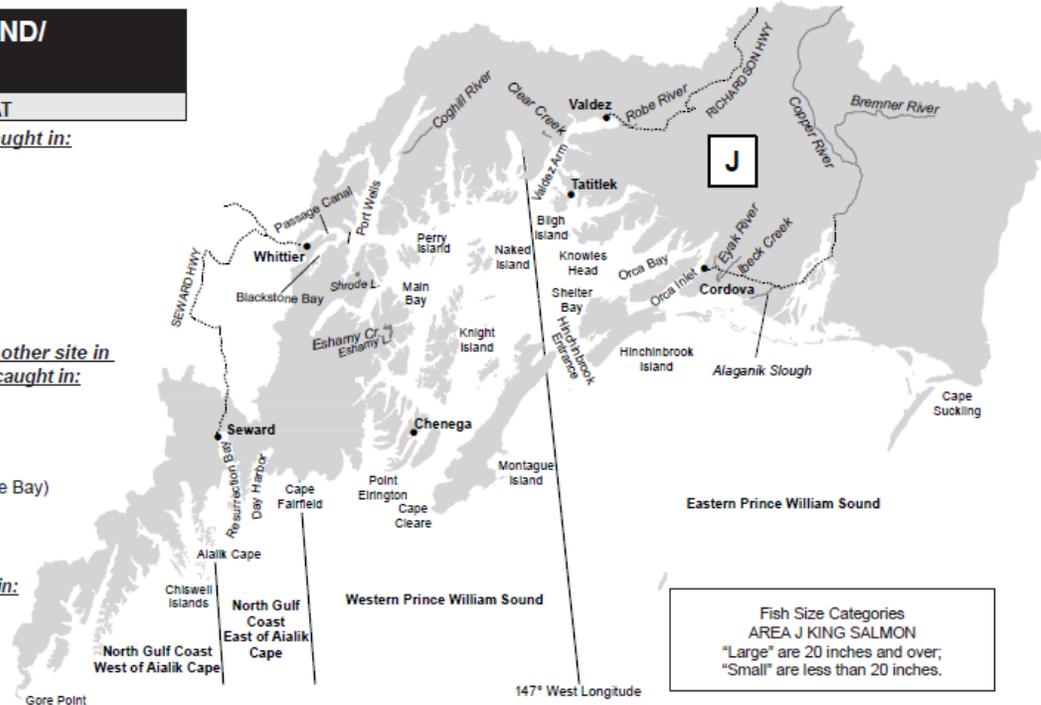
No.	Site Name
1301	Western Prince William Sound
1302	Eastern Prince William Sound
1305	Valdez Arm, Port Valdez
1303	Other site (specify)

Boat Trip ENDED in Cordova or other site in Eastern Prince William Sound - Fish were caught in:

No.	Site Name
1401	Western Prince William Sound
1402	Eastern Prince William Sound
1403	Other site (specify)

Boat Trip ENDED in location other than those listed above - Fish were caught in:

No.	Site Name
9991	Other site (specify)



Fish Size Categories
AREA J KING SALMON
"Large" are 20 inches and over,
"Small" are less than 20 inches.

SALTWATER FISHING FROM SHORELINE

No.	Site Name
1008	Resurrection Bay (Seward)
759	Passage Canal (Whittier)
998	Cove Creek mouth (Whittier)
747	Valdez Arm/Port Valdez
831	Allison Point (Valdez)
815	Fleming Spit/Hippy Cove (Cordova)
9992	Other shoreline site (specify)

FRESHWATER FISHING

No.	Site Name
114	Alaganik Slough
308	Clear Creek
7	Coghill River
307	Eshamy Lake, Creek, and Lagoon
5	Eyak River
171	Ibeck Creek
222	Robe River
12	Shrode Lake
9994	Other streams (specify)
9993	Other lakes (specify)

TO SAVE POSTAGE, PLEASE DO NOT RETURN THIS BOOKLET WITH YOUR QUESTIONNAIRE

K KNIK ARM AREA

Saltwater

No.	Site Name
9991	Saltwater (specify)

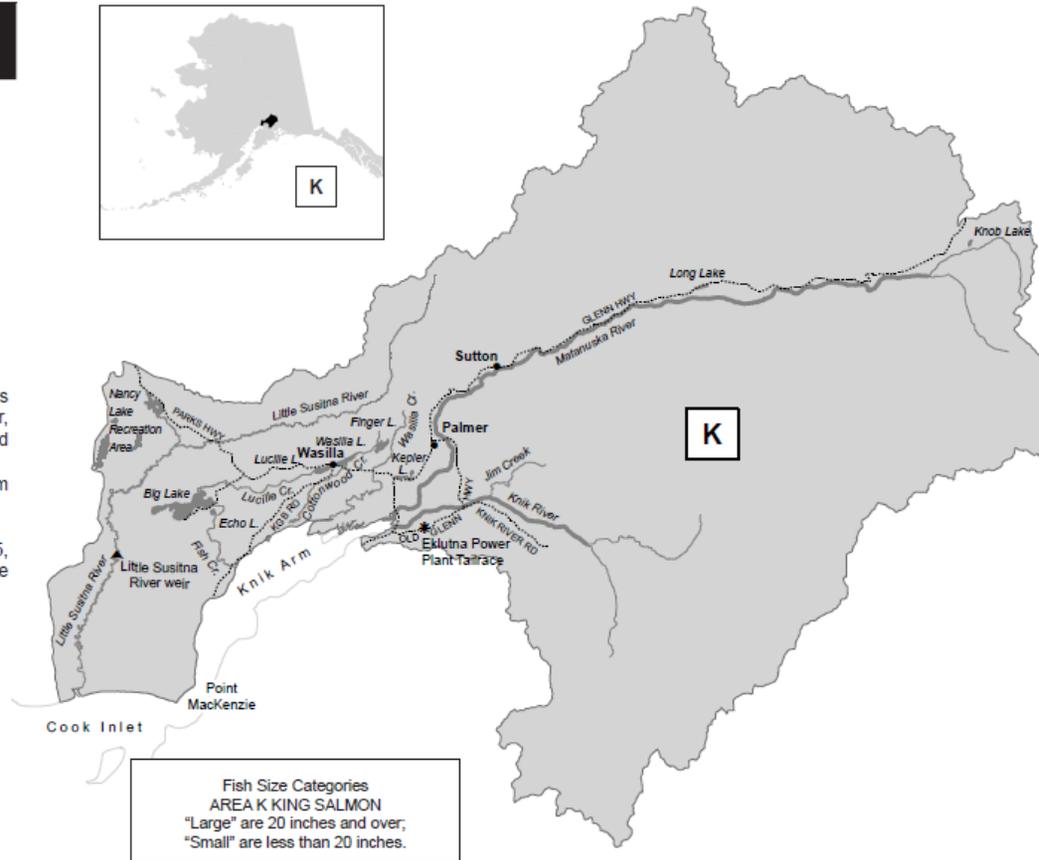
Freshwater

Knik Arm Area

No.	Site Name
12	Big Lake
7	Cottonwood Creek
14	Eklutna Power Plant Tailrace
9	Finger Lake
234	Fish Creek, Big Lake drainage
10	Kepler Lakes Complex (specify) includes Bradley, Canoe, Echo, Irene, Kepler, Klaire, Long, Matanuska, Silver, and Victor lakes
5	Knik River and tributaries including Jim Creek
486	Little Susitna River, below the weir (the weir is located at river mile 32.5, about 4 miles upstream of the Little Susitna River Public Use Facility)
487	Little Susitna River, above the weir
11	Lucille Lake
6	Wasilla Creek (Rabbit Slough)
8	Wasilla Lake
9994	Other streams (specify)
9993	Other lakes (specify) If Long Lake, specify location: <ul style="list-style-type: none"> • Kepler Lakes complex (K 294) • Mile 85 Glenn Hwy (K 221) • In the Willow area (K 316) • In the Big Lake area (K 300)

Nancy Lake Recreation Area Sites

No.	Site Name
443	Lynx Lake
13	Nancy Lake
456	Red Shirt Lake
241	South Rolly Lake
244	Other sites within Recreation Area (specify)



Fish Size Categories
AREA K KING SALMON
"Large" are 20 inches and over;
"Small" are less than 20 inches.

K1 FISH CREEK PERSONAL USE DIPNET FISHERY

Personal Use DIPNET FISHERY

No.	Site Name
9000	Fish Creek (Big Lake Drainage) - Personal Use

TO SAVE POSTAGE, PLEASE DO NOT RETURN THIS BOOKLET WITH YOUR QUESTIONNAIRE

L ANCHORAGE AREA

Saltwater

- | No. | Site Name |
|------|---------------------------------|
| 731 | Twentymile River (mouth) |
| 9991 | Other boat sites (specify) |
| 9992 | Other shoreline sites (specify) |

Freshwater

Streams

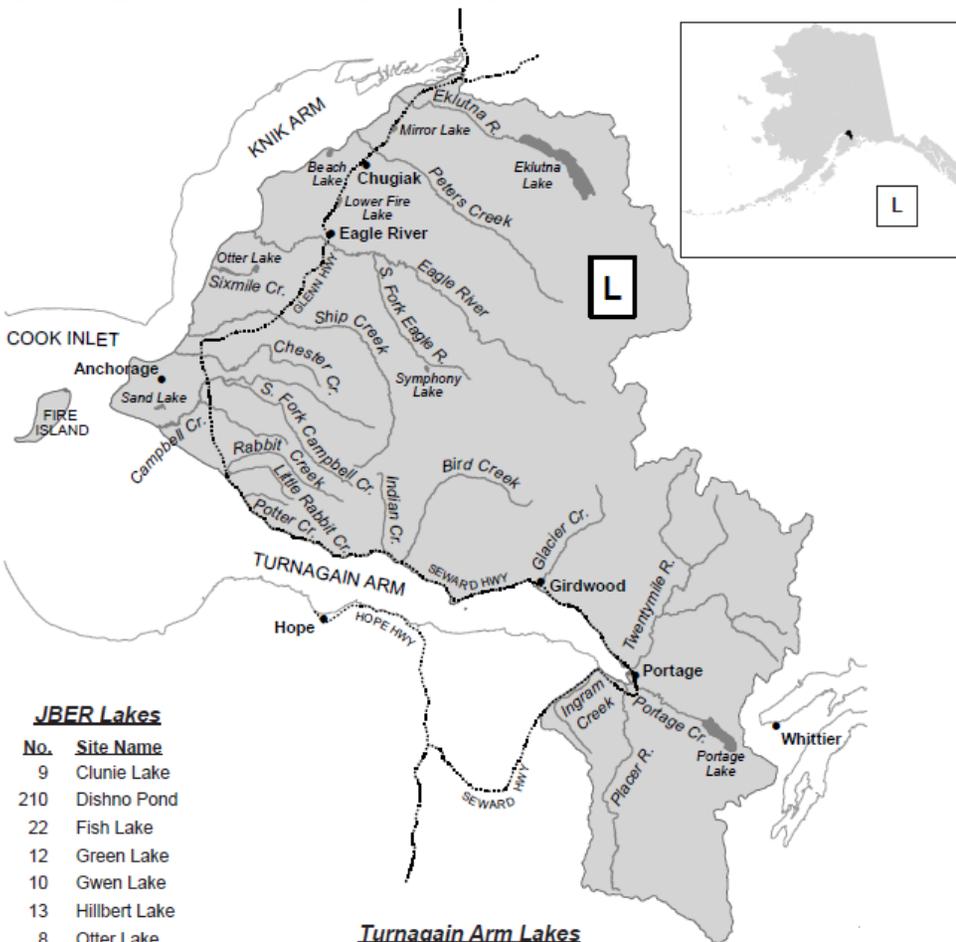
- | No. | Site Name |
|------|-------------------------|
| 15 | Bird Creek |
| 16 | Campbell Creek |
| 18 | Eagle River |
| 148 | Glacier Creek |
| 218 | Ingram Creek |
| 219 | Placer River |
| 14 | Ship Creek |
| 17 | Twentymile River |
| 9994 | Other streams (specify) |

Anchorage Bowl Lakes

- | No. | Site Name |
|-----|---------------------------------------|
| 20 | C Street Lake (Taku-Campbell Lake) |
| 4 | Campbell Point (Little Campbell) Lake |
| 23 | Cheney Lake |
| 138 | DeLong Lake |
| 3 | Jewel Lake |
| 215 | Lake Otis |
| 5 | Sand Lake |
| 24 | University (APU) Lake |
| 300 | Other Anchorage bowl lakes (specify) |

Eagle River/Chugiak Lakes

- | No. | Site Name |
|-----|---|
| 21 | Beach Lake |
| 139 | Eklutna Lake |
| 6 | Lower Fire Lake |
| 7 | Mirror Lake |
| 228 | Symphony Lake |
| 302 | Other Eagle River/Chugiak lakes (specify) |



JBER Lakes

- | No. | Site Name |
|-----|----------------------------|
| 9 | Clunie Lake |
| 210 | Dishno Pond |
| 22 | Fish Lake |
| 12 | Green Lake |
| 10 | Gwen Lake |
| 13 | Hillbert Lake |
| 8 | Otter Lake |
| 11 | Sixmile Lake |
| 188 | Spring Lake |
| 19 | Triangle Lake |
| 208 | Walden Lake |
| 303 | Other JBER lakes (specify) |

Turnagain Arm Lakes

- | No. | Site Name |
|-----|----------------------|
| 229 | Airstrip Willow Pond |
| 223 | Alder Pond |
| 226 | Rabbit Lake |
| 227 | Tangle Pond |

Fish Size Categories
 AREA L KING SALMON
 "Large" are 20 inches and over,
 "Small" are less than 20 inches.

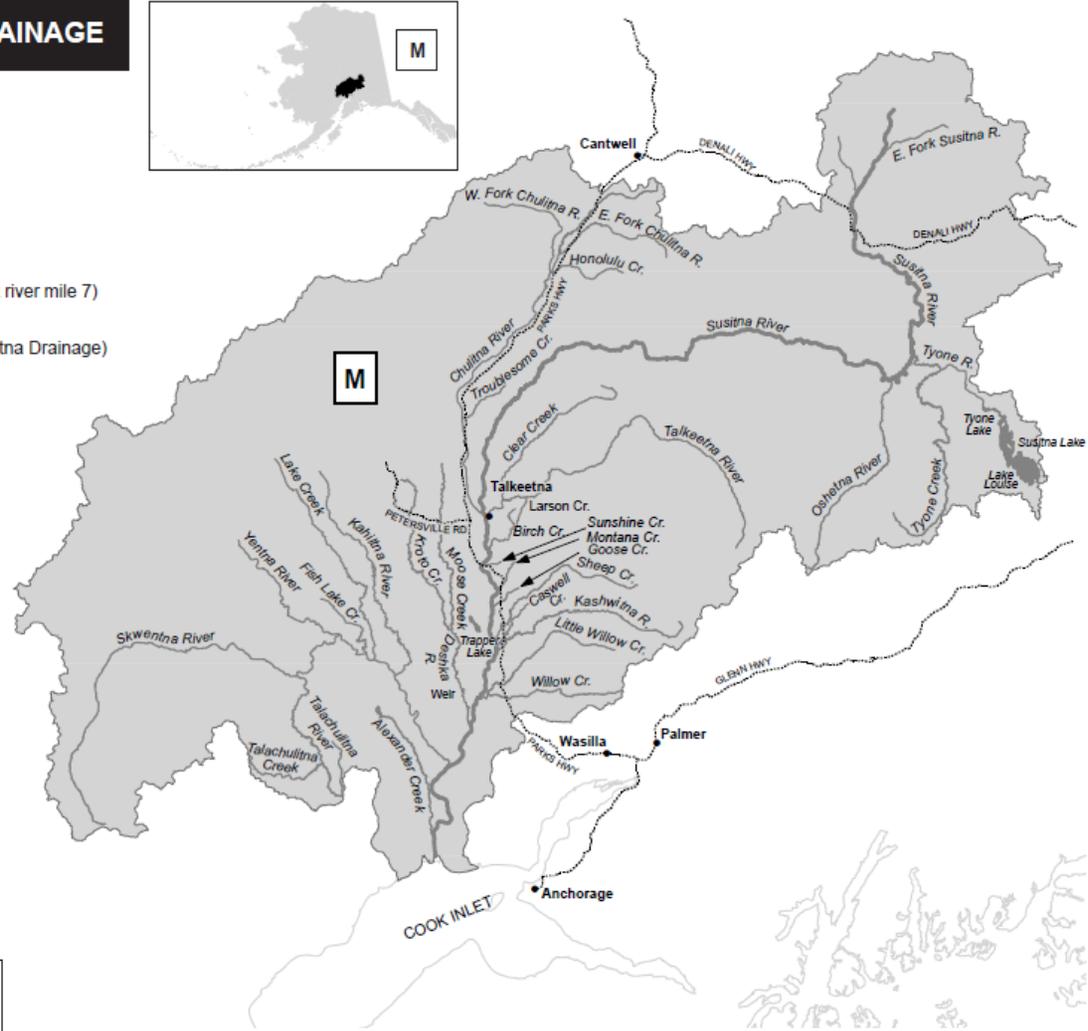
TO SAVE POSTAGE, PLEASE DO NOT RETURN THIS BOOKLET WITH YOUR QUESTIONNAIRE

M SUSITNA RIVER DRAINAGE

Freshwater

No.	Site Name
1117	Alexander Creek
1118	Alexander Lake
117	Birch Creek
5	Caswell Creek
8	Clear (Chunilna) Creek
1347	Deshka River above weir (weir is at river mile 7)
1348	Deshka River below weir
1171	Fish Lake Creek & Fish Lakes (Yentna Drainage)
138	Goose Creek
143	Kashwitna River
1004	Lake Creek
3010	Lake Louise
10	Little Willow Creek
6	Montana Creek
9	Sheep Creek
1239	Skwentna River
7	Sunshine Creek
3011	Susitna Lake
1251	Susitna River
1007	Talachulitna River
170	Talkeetna River
1262	Trapper Lake
181	Troublesome Creek
3295	Tyone Creek
4	Willow Creek
1277	Yentna River
9993	Other lakes (specify)
9994	Other streams (specify)

Fish Size Categories
 AREA M KING SALMON
 "Large" are 20 inches and over;
 "Small" are less than 20 inches.



238

TO SAVE POSTAGE, PLEASE DO NOT RETURN THIS BOOKLET WITH YOUR QUESTIONNAIRE

N WEST COOK INLET FRESHWATER

In Area N all fishing sites are freshwater. Record all Cook Inlet saltwater to Area P

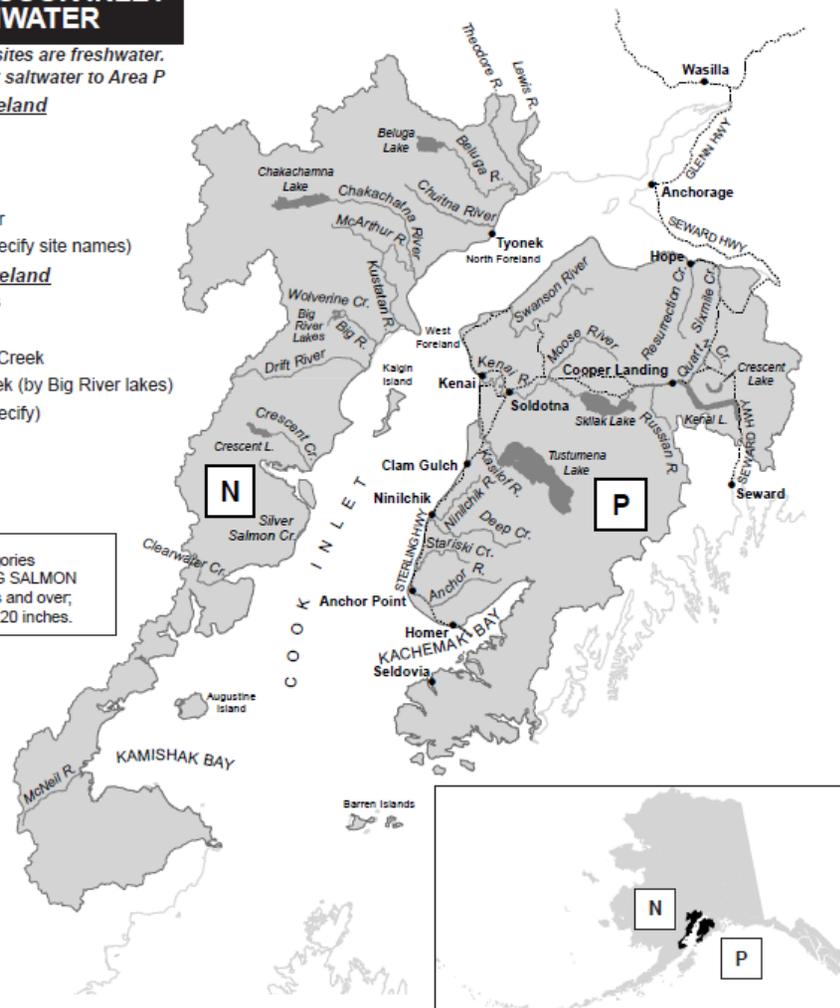
North of North Foreland

- | No. | Site Name |
|-----|----------------------------------|
| 8 | Chuitna River |
| 10 | Lewis River |
| 9 | Theodore River |
| 332 | Other sites (specify site names) |

South of North Foreland

- | | |
|-----|--------------------------------------|
| 125 | Big River lakes |
| 186 | Kustatan River |
| 237 | Silver Salmon Creek |
| 340 | Wolverine Creek (by Big River lakes) |
| 333 | Other sites (specify) |

Fish Size Categories
AREAS N and P KING SALMON
"Large" are 20 inches and over,
"Small" are less than 20 inches.



P KENAI PENINSULA FRESHWATER

- | No. | Site Name |
|------|---|
| 5 | Anchor River |
| 137 | Centennial Lake |
| 147 | Crescent Lake |
| 7 | Deep Creek |
| 12 | Hidden Lake |
| 300 | Island Lake |
| 178 | Johnson Lake |
| 183 | Kenai Lake |
| 192 | Longmare (Longmere) Lake |
| 6 | Ninilchik River |
| 218 | Quartz Creek |
| 261 | Resurrection Creek (near Hope) |
| 226 | Sixmile Creek drainage, including Granite, East Fork, and Canyon creeks |
| 228 | Skilak Lake |
| 368 | Spirit (Elephant) Lake |
| 283 | Sports Lake |
| 8 | Stariski Creek |
| 235 | Summit Lake |
| 15 | Swan Lake Canoe Route |
| 334 | Swanson River |
| 14 | Swanson River Canoe Route lakes |
| 244 | Tustumena Lake |
| 9994 | Other streams (specify) |
| 9993 | Other lakes (specify) |

P KENAI PENINSULA PERSONAL USE DIPNET FISHERIES

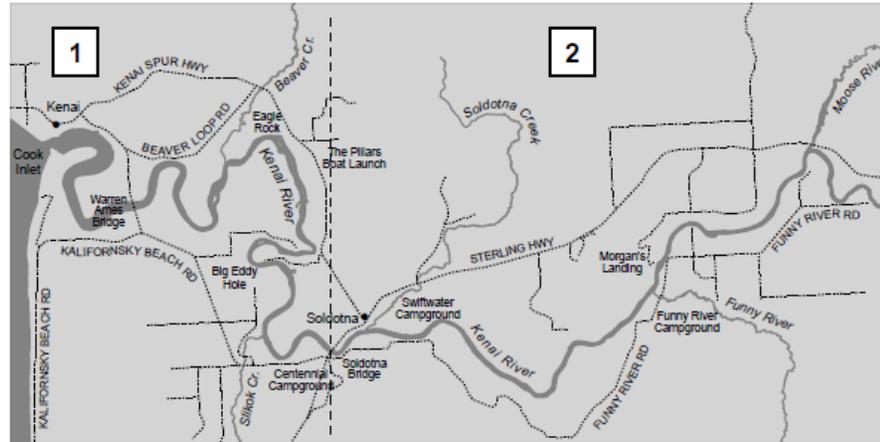
- | No. | Site Name |
|------|-------------------------|
| 9001 | China Poot (dipnet) |
| 9002 | Kenai River (dipnet) |
| 9003 | Kasilof River (dipnet) |
| 9007 | Kasilof River (gillnet) |

TO SAVE POSTAGE, PLEASE DO NOT RETURN THIS BOOKLET WITH YOUR QUESTIONNAIRE

P KENAI, KASILOF and RUSSIAN RIVERS FRESHWATER

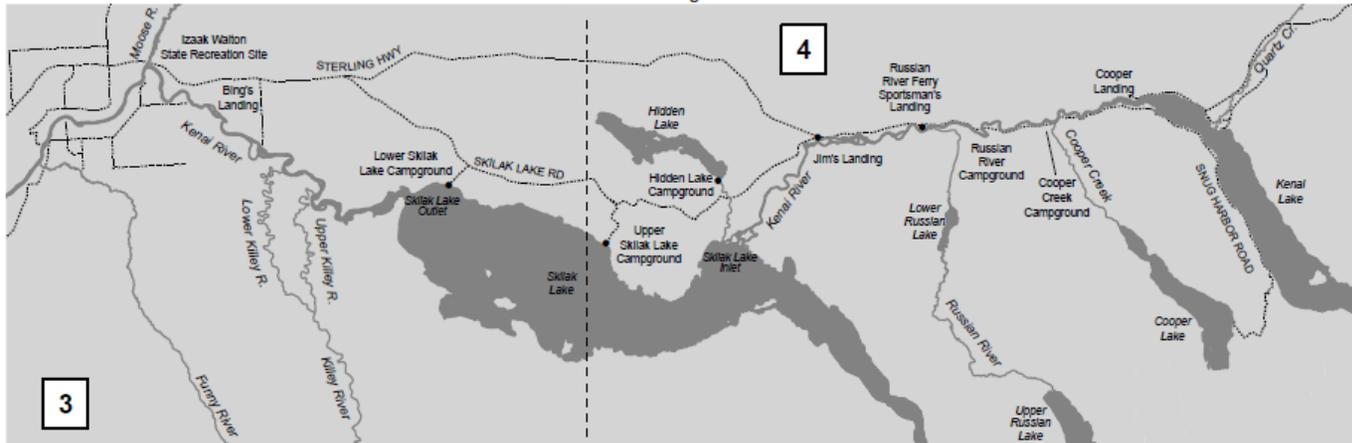
- | No. | Site Name |
|-----|--|
| 1 | Kenai River - Cook Inlet to Soldotna Bridge |
| 2 | Kenai River - Soldotna Bridge to Moose River |
| 3 | Kenai River - Moose River to Skilak outlet |
| 4 | Kenai River - Skilak inlet to Kenai Lake |
| 500 | Kasilof River - Bank fishing |
| 600 | Kasilof River - Boat fishing |
| 9 | Russian River (include all fishing in the 1,800 yard section of the Kenai River immediately downstream from the Russian River) |

For all other Kenai Peninsula freshwater, go to page 14



Area Code Letter P
Site No. 1 Kenai River - Cook Inlet to Soldotna Bridge

Area Code Letter P
Site No. 2 Kenai River - Soldotna Bridge to Moose River



Area Code Letter P
Site No. 3 Kenai River - Moose River to Skilak Outlet

Area Code Letter P
Site No. 4 Kenai River - Skilak Inlet to Kenai Lake

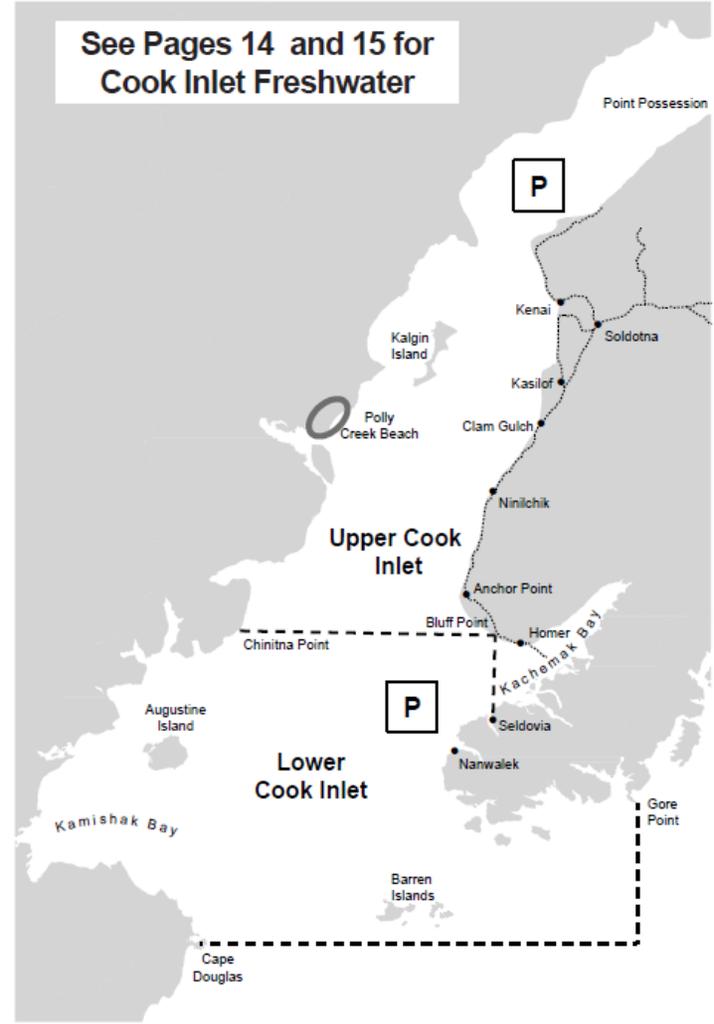
TO SAVE POSTAGE, PLEASE DO NOT RETURN THIS BOOKLET WITH YOUR QUESTIONNAIRE

P COOK INLET and KACHEMAK BAY SALTWATER

- | No. | Site Name |
|-----|--|
| 980 | Upper Cook Inlet <u>north</u> of Bluff and Chinitna Points, including saltwaters by Anchor River, Whiskey Gulch, Deep Creek and Ninilchik River (boat) |
| 981 | Upper Cook Inlet fishing from shore (specify) |
| 952 | Lower Cook Inlet west of Gore Point not including Kachemak Bay (boat) |
| 796 | Kachemak Bay from Bluff Point to Seldovia (boat) |
| 823 | Homer Spit (fishing from shore on the Spit) |
| 991 | Other Lower Cook Inlet and Kachemak Bay fishing from the shore (specify) |

P COOK INLET SHELLFISH

- East side Cook Inlet shellfish fisheries
- | No. | Site Name |
|------|--|
| 797 | Kachemak Bay (from Bluff Point to Seldovia) |
| 1000 | CLAMS: Between Anchor Point and Kasilof River (including Whiskey Gulch, Deep Creek, Ninilchik, Clam Gulch and Cohoe beaches) |
| 953 | Lower Cook Inlet sites west of Gore Point (not including Kachemak Bay) |
| 4 | Other East Cook Inlet Shellfish sites (specify) |
- West side Cook Inlet shellfish fisheries
- | No. | Site Name |
|------|---|
| 16 | Polly Creek beach/Crescent River bar |
| 700 | Shellfish, north of Chinitna Point |
| 710 | Shellfish, south of Chinitna Point |
| 1004 | Other West Cook Inlet shellfish sites (specify) |



See Pages 14 and 15 for Cook Inlet Freshwater

TO SAVE POSTAGE, PLEASE DO NOT RETURN THIS BOOKLET WITH YOUR QUESTIONNAIRE

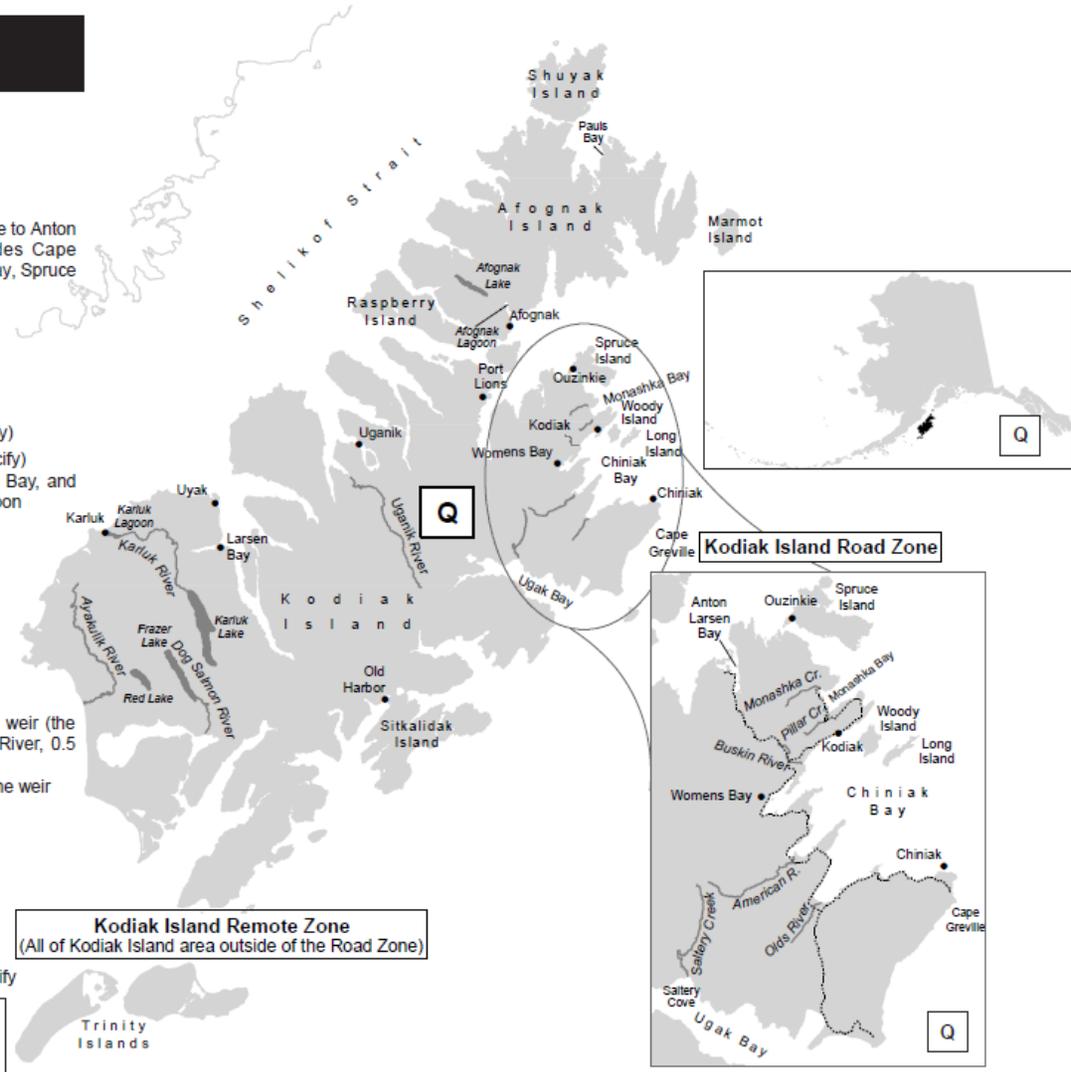
Q KODIAK AREA

Saltwater

- | No. | Site Name |
|-----|--|
| 814 | Afognak Island |
| 887 | Afognak Lagoon (Litnik) |
| 736 | Chiniak Bay area from Cape Greville to Anton Larsen Bay (specify). Includes Cape Chiniak, Mill Bay, Monashka Bay, Spruce Island and all of Chiniak Bay |
| 812 | Pauls Bay |
| 800 | Shuyak Area |
| 776 | Ugak Bay |
| 770 | Uyak Bay |
| 932 | Other remote saltwater sites (specify) |
| 934 | Other roadside saltwater sites (specify)
Includes Narrow Cape, Pasagshak Bay, and Saltery Cove areas, and Barry Lagoon |

Freshwater

- | No. | Site Name |
|-----|--|
| 110 | Afognak Lake |
| 114 | American River |
| 174 | Ayakulik (Red) River |
| 3 | Buskin River |
| 277 | Karluk Lake and River ABOVE the weir (the weir is located on the Karluk River, 0.5 miles upstream of the Lagoon) |
| 278 | Karluk Lagoon and River BELOW the weir |
| 163 | Olds River (or Creek) |
| 275 | Pasagshak drainage |
| 276 | Saltery Cove drainage |
| 108 | Roadside lakes (specify) |
| 109 | Other lakes (Remote Zone) specify |
| 105 | Roadside streams (specify) |
| 106 | Other streams (Remote Zone) specify |



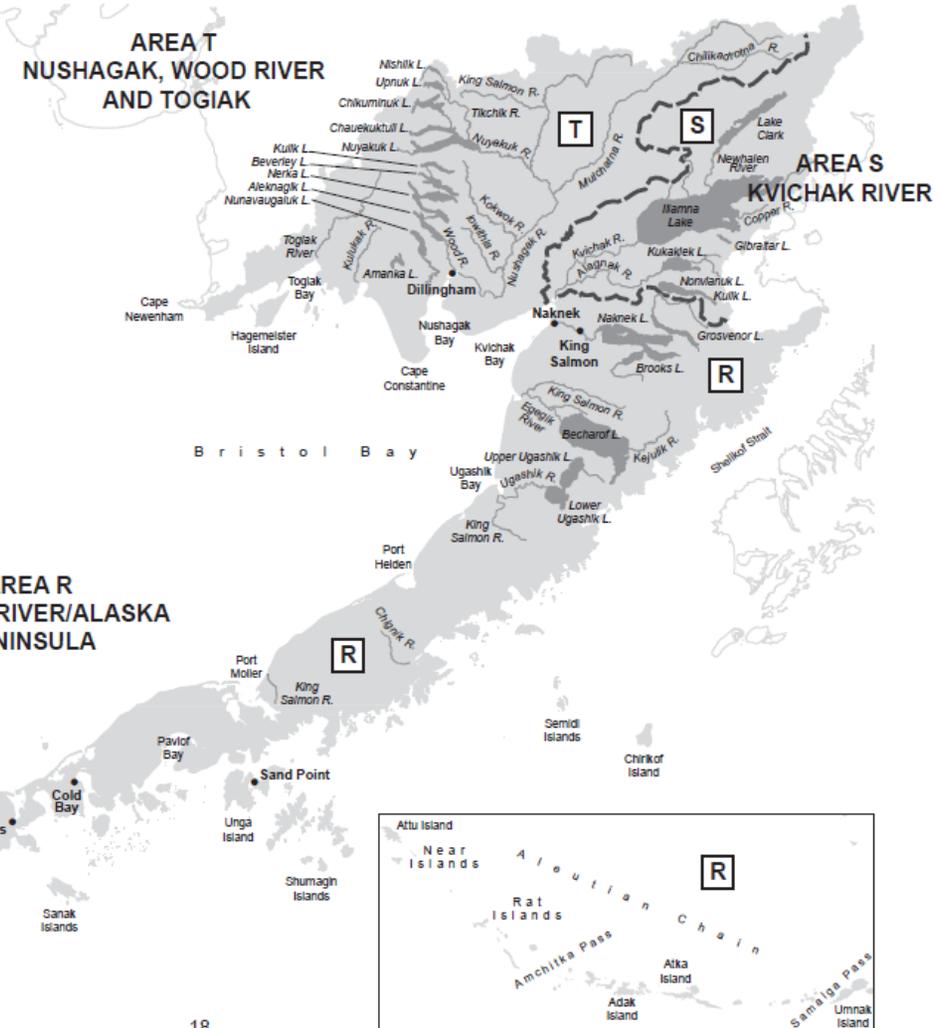
Kodiak Island Remote Zone
(All of Kodiak Island area outside of the Road Zone)

Fish Size Categories
AREA Q KING SALMON
"Large" are 20 inches and over;
"Small" are less than 20 inches.

TO SAVE POSTAGE, PLEASE DO NOT RETURN THIS BOOKLET WITH YOUR QUESTIONNAIRE

SOUTHWEST ALASKA AREAS R-T

SOUTHWEST ALASKA INDEX		
Area Code Letter	Area Description	Page
R	NAKNEK RIVER/ALASKA PENINSULA	19
S	KVICHAK RIVER	19
T	NUSHAGAK, WOOD RIVER AND TOGIAK	19



TO SAVE POSTAGE, PLEASE DO NOT RETURN THIS BOOKLET WITH YOUR QUESTIONNAIRE

R NAKNEK RIVER/ALASKA PENINSULA AREA	S KVICHAK RIVER DRAINAGE	T NUSHAGAK, WOOD RIVER, AND TOGIK AREA
Saltwater	Saltwater	Saltwater
<u>No.</u> <u>Site Name</u>	<u>No.</u> <u>Site Name</u>	<u>No.</u> <u>Site Name</u>
1 Cold Bay area	9991 Specify site names	9991 Specify site names
756 Unalaska Bay area		
900 Boat-Cape Menshikof north to Naknek Bay includes Ugashik, Egegik, and Naknek Bays (specify)	Freshwater	Freshwater
950 Boat-Other Alaska Peninsula; saltwater boat fishing west of Cape Menshikof and Cape Douglas, excluding Cold Bay or Unalaska Bay (specify)	<u>No.</u> <u>Site Name</u>	<u>No.</u> <u>Site Name</u>
9991 Other saltwater (specify)	8 Alagnak (Branch) River	111 Agulowak River
	141 Battle River	128 Agulukpak River
	5 Copper River (tributary of Iliamna Lake)	112 Aleknagik Lake
	146 Funnel Creek	8 Chilikadrotna River
	6 Gibraltar Lake	126 Kokwok River
Freshwater	170 Gibraltar River	209 Iowithla River
<u>No.</u> <u>Site Name</u>	125 Iliamna Lake	116 Kulukak River
182 American Creek	120 Iliamna River	7 Mulchatna River
12 Becharof System (including Becharof Lake, Kejukik and Egegik rivers, and Shosky Creek)	183 Kukaklek River (Big Ku)	207 Nushagak River from Black Point upstream to sonar site (by Portage Creek)
13 Brooks Lake	123 Kulik River	208 Nushagak River, sonar site (by Portage Creek) upstream to outlet of Mulchatna River
10 Brooks River	3 Kvichak River	190 Nushagak River, upstream from outlet of Mulchatna River
130 Chignik River	9 Lake Clark	3 Nushagak system, other (specify)
5 Cold Bay area (including Russel Creek)	134 Moraine Creek	206 Nuyakuk River
8 Naknek Lake - Bay of Islands	7 Newhalen River	5 Tikchik-Nuyakuk lakes area, including Nuyakuk, Tikchik, Chikuminuk, Nishlik, and Upnuk lakes, and Lake Chauekuktuli (specify)
9 Naknek Lake - other	4 Lower Talarik Creek	6 Togiak River and Lake drainage (specify)
279 Naknek River (downstream of Rapids Camp)	139 Upper Talarik Creek	4 Wood River Lakes system, including lakes Nerka, Beverley, and Kulik (specify)
275 Naknek River (Rapids Camp to Naknek Lake)	9994 Other streams (specify)	9994 Other streams (specify)
11 Ugashik System, including Ugashik River, and Upper/Lower Ugashik Lakes	9993 Other lakes (specify)	9993 Other lakes (specify)
281 Unalaska Bay streams		
9994 Other streams (specify)		
If King Salmon River, specify location:		
• near the community of King Salmon (R 143)		
• near Egegik Bay (R 144)		
• near Ugashik Bay (R 194)		
• near Port Moller (R 195)		
9993 Other lakes (specify site names)		

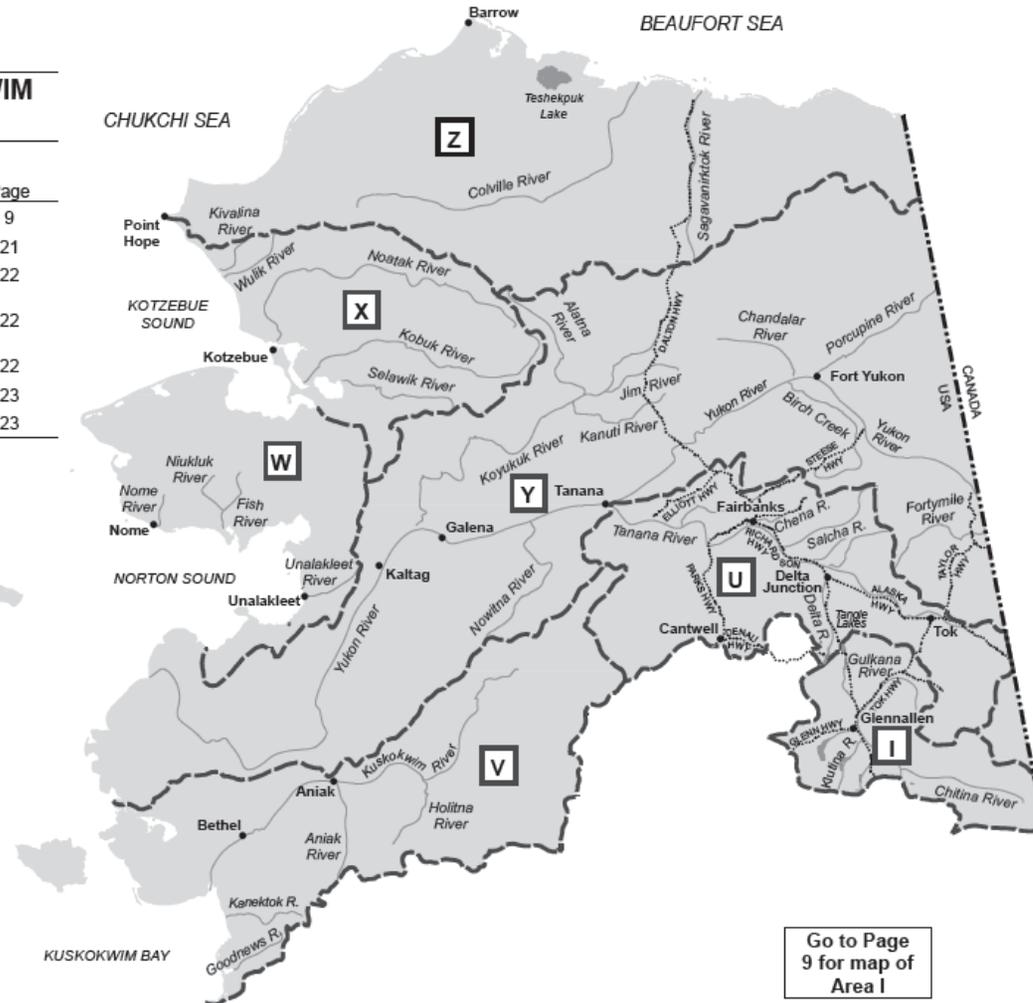
Fish Size Categories
 AREA R-T KING SALMON
 "Large" are 20 inches and over,
 "Small" are under 20 inches

TO SAVE POSTAGE, PLEASE DO NOT RETURN THIS BOOKLET WITH YOUR QUESTIONNAIRE

ARCTIC-YUKON-KUSKOKWIM AREAS I AND U-Z

ARCTIC-YUKON-KUSKOKWIM INDEX

Area Code Letter	Area Description	Page
I	UPPER COPPER RIVER DRAINAGE	9
U	TANANA RIVER DRAINAGE	21
V	KUSKOKWIM RIVER/ KUSKOKWIM BAY DRAINAGES	22
W	SEWARD PENINSULA/ NORTON SOUND	22
X	NORTHWEST ALAKSA	22
Y	YUKON RIVER DRAINAGE	23
Z	NORTH SLOPE-BROOKS RANGE	23

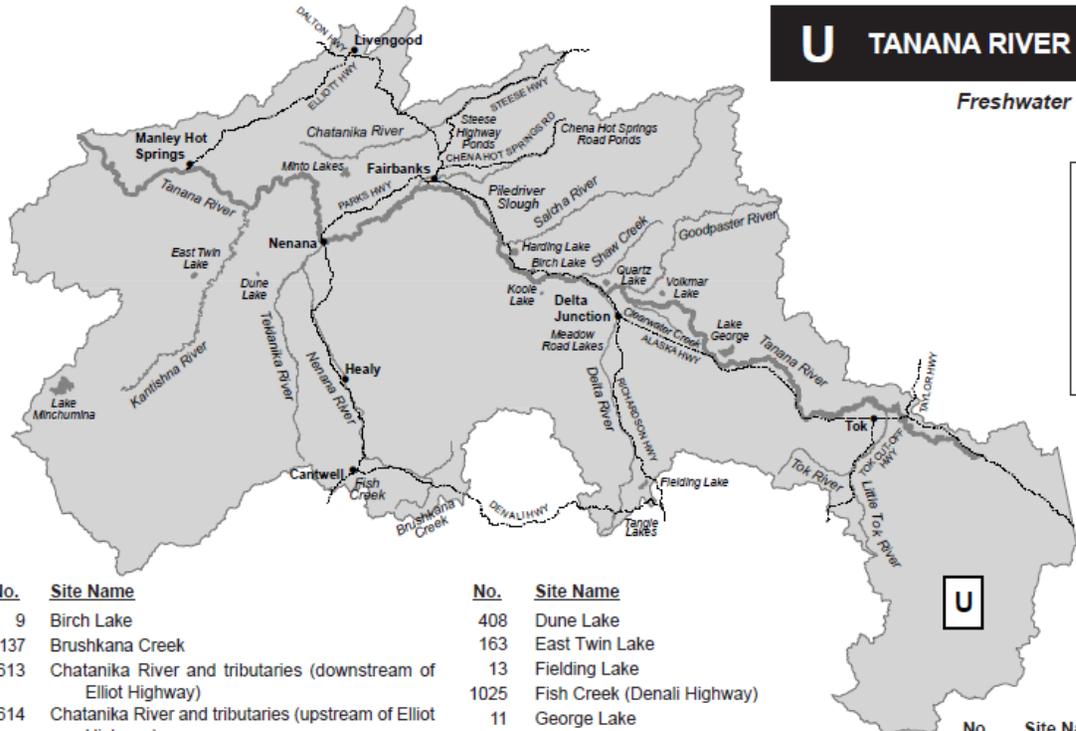


Go to Page 9 for map of Area I

TO SAVE POSTAGE, PLEASE DO NOT RETURN THIS BOOKLET WITH YOUR QUESTIONNAIRE

U TANANA RIVER DRAINAGE

Freshwater



Fish Size Categories
 AREA U KING SALMON
 "Large" are 20 inches and over;
 "Small" are less than 20 inches.

No.	Site Name
9	Birch Lake
137	Brushkana Creek
613	Chatanika River and tributaries (downstream of Elliot Highway)
614	Chatanika River and tributaries (upstream of Elliot Highway)
347	Chena Hot Springs Road ponds (along Chena Hot Springs Road from mile 30 to mile 50)
18	Chena Lake Recreation Area
1050	Chena River (Lower Chena River and tributaries) from the mouth upstream to the Moose Creek Dam at river mile 45. Includes all parts of Badger (Chena) Slough
1051	Chena River (Upper Chena River and tributaries) upstream of Moose Creek Dam at river mile 45)
584	Coal Mine Road lakes (accessible from Coal Mine Road, located at mile 242 Richardson Hwy about 22 miles south of Delta Junction)
6	Delta Clearwater River
17	Delta River (below Tangle Lakes)

No.	Site Name
408	Dune Lake
163	East Twin Lake
13	Fielding Lake
1025	Fish Creek (Denali Highway)
11	George Lake
8	Goodpaster River
189	Harding Lake
201	Koole Lake
583	Meadow Road Lakes (along the Meadow and Ridge roads in the southern part of Fort Greely Military Reservation, including Weasel Lake)
14	Minto Flats; lakes and rivers of Minto Flats State Game Refuge
513	Nenana R. drainage (not including Brushkana Cr)
319	Piledriver Slough (including Moose Creek)
10	Quartz Lake
7	Richardson Clearwater Creek
5	Salcha River
16	Shaw Creek

No.	Site Name
346	Steese Ponds (along the Steese Highway from mile 30 to mile 40)
15	Tangle Lakes and River (including Long Tangle, Lower Tangle, Landlocked Tangle, Round Tangle, and Upper Tangle lakes)
514	Tanana River downstream from Nenana (mainstem only)
515	Tanana River between Delta Junction and Nenana (mainstem only)
516	Tanana River upstream from Delta Junction (mainstem only)
12	Volkmar Lake
9993	Other lakes (specify)
9994	Other streams (specify)

246

TO SAVE POSTAGE, PLEASE DO NOT RETURN THIS BOOKLET WITH YOUR QUESTIONNAIRE

**V KUSKOKWIM RIVER–
KUSKOKWIM BAY DRAINAGES**

Saltwater

No. Site Name

9992 Specify site names

Freshwater

Kuskokwim River upstream of Aniak R

No. Site Name

- 301 Kuskokwim River drainages above Aniak River (specify)
- 6 Holitna River
- 134 George River
- 302 Lakes (specify)

Kuskokwim River downstream of Aniak R

No. Site Name

- 310 Kuskokwim River drainages below Aniak River (specify)
- 5 Aniak River
- 43 Kisaralik River
- 19 Kwethluk River
- 312 Lakes (specify)

Kuskokwim Bay Streams and Lakes

No. Site Name

- 88 Arolik River
- 3 Kanektok River
- 4 Goodnews River
- 321 Other streams (specify)
- 322 Lakes (specify)



**W SEWARD PENINSULA/
NORTON SOUND AREA**

Saltwater

No. Site Name

9991 Specify site names

Freshwater

No. Site Name

- 20 Cripple River
- 11 Eldorado River
- 112 Fish River and tributaries (including Pargon, Rathlatulik, and Boston Creek; excluding Niukluk River)
- 113 Niukluk River and tributaries
- 30 Flambeau River
- 14 Fox River
- 18 Kuzitrin River
- 4 Nome River
- 94 North River
- 6 Pilgrim River
- 41 Shaktoolik River
- 22 Sinuk River
- 12 Snake River
- 15 Solomon River
- 3 Unalakleet River
- 9994 Other streams (specify)
- 9993 Lakes (specify)



**X NORTHWEST
ALASKA AREA**

Saltwater

No. Site Name

9991 Specify site names

Freshwater

No. Site Name

- 78 Desperation Lake
- 13 Feniak Lake
- 16 Kelly River
- 17 Kivalina River
- 4 Kobuk River
- 86 Kugururok River
- 32 Matcharak Lake
- 3 Noatak River
- 24 Selawik River
- 27 Squirrel River
- 28 Walker Lake
- 5 Wulik River
- 9994 Other streams (specify)
- 9993 Other lakes (specify)



Fish Size Categories
AREA V-X KING SALMON
"Large" are 20 inches and over;
"Small" are less than 20 inches.

TO SAVE POSTAGE, PLEASE DO NOT RETURN THIS BOOKLET WITH YOUR QUESTIONNAIRE

Y YUKON RIVER DRAINAGE

Yukon R Drainage. Downstream from Koyukuk River

No.	Site Name
147	Andreafsky River
148	Anvik River
182	Innoko River
247	Other sites Yukon River downstream from Koyukuk River (specify)

Yukon R Drainages. Koyukuk River to Ft Yukon

ACCESSED from Dalton Hwy (Haul Road)

No.	Site Name
15	Jim River
400	Kanuti River (accessed from Dalton Highway)
410	Koyukuk River Middle Fork (accessed from Dalton Hwy)
420	Koyukuk River South Fork (accessed from Dalton Hwy)
899	Other streams accessed from Dalton Hwy (specify)
898	Other lakes accessed from Dalton Hwy (specify)

Yukon River Drainages. Koyukuk River to Fort Yukon

NOT ACCESSED from Dalton Hwy (Haul Road)

500	Kanuti River (not accessed from Dalton Hwy)
510	Koyukuk River Middle Fork (not accessed from Dalton Hwy)
520	Koyukuk River South Fork (not accessed from Dalton Hwy)
16	Koyukuk R mainstem (downstream from confluence with South Fork, not accessed from Dalton Hwy)
204	Nowitna River
94	Dall River
202	Beaver and Nome creeks (Steese Highway)
255	Birch Creek (Steese Highway)
24	Porcupine River Drainage
248	Other sites, Koyukuk R to Fort Yukon (specify)

Yukon River Drainages. Fort Yukon to Canadian Border

No.	Site Name
249	Other Sites (specify)

**Z NORTH SLOPE/
BROOKS RANGE AREA**

Saltwater

No.	Site Name
9991	Specify site names

Freshwater

Lakes Near the Dalton Highway (Haul Road)

No.	Site Name
60	Galbraith Lake
43	Toolik Lake
99	Other lakes (specify)

Streams Near the Dalton Highway (Haul Road)

No.	Site Name
22	Ivishak River
76	Sagavanirktok River
100	Other streams (specify)

Remainder of North Slope/Brooks Range Area

No.	Site Name
53	Canning River
15	Colville River
9	Meade River
14	Kongakut River
9994	Other streams (specify)
9993	Other lakes (specify)

Fish Size Categories
AREAS Y - Z KING SALMON
"Large" are 20 inches and over,
"Small" are less than 20 inches.



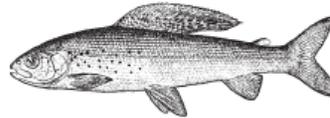
TO SAVE POSTAGE, PLEASE DO NOT RETURN THIS BOOKLET WITH YOUR QUESTIONNAIRE



THANK YOU!
YOUR PARTICIPATION SUPPORTS SUSTAINABLE SPORT FISHERIES THROUGHOUT THE STATE OF ALASKA

Feel free to call us if we can assist you at (907) 267-2280 or, email us at: dfg.dsf.publications@alaska.gov

Please visit our website, which provides current and historical information gathered from this vital survey.
Our web address is: <http://www.adfg.alaska.gov/sf/sportfishingsurvey>



The State of Alaska is an equal opportunity employer and service provider and complies with federal civil rights laws and Alaska Human Rights Law. Individuals with disabilities who require this publication in an alternative format are welcome to contact the Statewide Harvest Survey Program Manager for assistance at 907-267-2280 (individuals with hearing impairments via Alaska Relay at 711 or (800) 770-8973); by e-mail at dfg.dsf.publications@alaska.gov; or by mail to: Statewide Harvest Survey Program, Alaska Department of Fish and Game, 333 Raspberry Road, Anchorage, AK 99518-1599; or the Department's Americans with Disabilities Act Coordinator at 907-465-6077 or V/TTY (800) 478-3648.



THE STATE
of **ALASKA**
GOVERNOR BILL WALKER

**Department of
Fish and Game**

DIVISION OF SPORT FISH
Research & Technical Services

333 Raspberry Road
Anchorage, Alaska 99518-1565
Phone: 907.267.2280
Fax: 907.267.2422

Dear Angler,

Every year we conduct a survey of anglers who went sport fishing in Alaska to measure where sport fishing occurs and how many fish are caught and kept in Alaska. This information is essential to our ongoing efforts to preserve and improve Alaska's sport fisheries. You have been selected to receive the 2017 Alaska Sport Fishing Survey.

Please help us maintain sport fishing opportunities in Alaska by doing your best to remember and record your household's 2017 freshwater and saltwater sport fishing activity in the enclosed survey booklet, and then return the booklet using the enclosed postage-paid envelope. **Even if no one in your household fished in 2017, we ask that you please complete the General Questions on page 3 of the questionnaire and return the survey to us so we can register that information and not send you a reminder packet.**

Your answers to the survey are completely confidential and will only be used to produce summaries in which no individual answers are identified. While the tables and maps may make the survey look a bit complicated, for most people there are only a few sections that must be completed to report a household's sport fishing information.

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

If you have any questions or comments about this study, we would be glad to hear from you. You can contact us by email at dfg.dsf.publications@alaska.gov or by phone at (907) 267-2280.

The results of the 2017 Alaska Sport Fishing Survey will be available in the fall of 2018. If you are interested in seeing the results of previous years' surveys, visit the Alaska Fishing Survey website at: <http://www.adfg.alaska.gov/sf/sportfishingsurvey/>

Thank you very much for helping with this important study.

Sincerely,

A handwritten signature in black ink, appearing to read "Tom Brookover".

Tom Brookover
Director



THE STATE
of **ALASKA**
GOVERNOR BILL WALKER

**Department of
Fish and Game**

DIVISION OF SPORT FISH
Research & Technical Services

333 Raspberry Road
Anchorage, Alaska 99518-1565
Phone: 907.267.2280
Fax: 907.267.2422

Dear Angler,

A few weeks ago we sent you a **2017 Alaska Sport Fishing Survey**. We conduct this survey every year to measure where fishing occurs and how many fish are caught and kept by sport anglers in Alaska. This information is essential to our ongoing efforts to maintain and improve Alaska's sport fisheries.

Information about your household's 2017 sport fishing is very valuable to this study because you have been randomly chosen to represent many other sport anglers in Alaska. However, we have yet to receive your completed survey. If you have recently returned your completed booklet, please disregard this letter and accept our thanks.

If you have not completed the survey, please take a few minutes to recall your **household's** 2017 sport fishing activity and record it in the survey booklet, then return the booklet using the enclosed postage-paid envelope. For most people there are only a few sections that must be completed to report a household's sport fishing information.

Even if no one in your household fished in 2017, we ask that you please complete the General Questions on page 3 of the booklet and return it to us, so we can register that information and not send another reminder packet. Your answers to the survey are completely confidential and will only be used to produce summaries in which no individual answers are identified.

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

If you have any questions or comments about this study, we would be glad to hear from you. You can contact us by email at dfg.dsf.publications@alaska.gov or by phone at (907) 267-2280.

The results of the 2017 Alaska Sport Fishing Survey will be available in fall of 2018. If you are interested in seeing the results of previous years' surveys, visit the Sport Fishing Survey website: <http://www.adfg.alaska.gov/sf/sportfishingsurvey/>

Thank you very much for helping with this important study.

Sincerely,

A handwritten signature in black ink, appearing to read "Tom Brookover".

Tom Brookover
Director



THE STATE
of **ALASKA**
GOVERNOR BILL WALKER

**Department of
Fish and Game**

DIVISION OF SPORT FISH
Research & Technical Services

333 Raspberry Road
Anchorage, Alaska 99518-1565
Phone: 907.267.2280
Fax: 907.267.2422

Dear Angler,

At this time of year, we realize that your 2017 fishing experiences may be a distant memory. We are, however, requesting your help by asking that you complete the **2017 Alaska Sport Fishing Survey**. Over the past few months we have sent you copies of the survey, but we have not received a reply.

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

The study is drawing to a close, and this is the last contact that will be made in this year's survey. Hearing from everyone who was mailed a survey helps assure that the results are as accurate as possible. **Even if no one in your household fished in 2017, we ask that you please complete the General Questions on page 3 of the questionnaire and return the survey to us.** Your answers to the survey are completely confidential and will only be used to produce summaries in which no individual answers are identified.

If you have recently returned your completed survey, please disregard this letter and accept our thanks.

If you have any questions or comments about this study, we would be glad to hear from you. You can contact us by email at dfg.dsf.publications@alaska.gov or by phone at (907) 267-2280.

The results of the 2017 Alaska Sport Fishing Survey will be available in fall of 2018. If you are interested in seeing the results of previous years' surveys, visit the Sport Fishing Survey website: <http://www.adfg.alaska.gov/sf/sportfishingsurvey/>

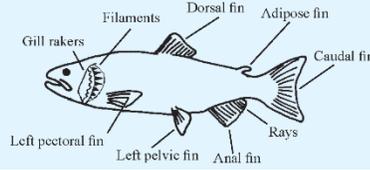
Thank you very much for helping with this important study.

Sincerely,

A handwritten signature in black ink, appearing to read "Tom Brookover".

Tom Brookover
Director

SALMON, TROUT, AND OTHER SPECIES COMMONLY FOUND IN ALASKA



ALASKA'S WILD SALMON ARE FOUND IN BOTH FRESH AND SALTWATERS



King (Chinook) Salmon
Oncorhynchus tshawytscha
Small black spots on back and both lobes of tail. Gum line on lower jaw black. Less than 25 gill rakers, 15-17 anal fin rays. The largest of all Pacific salmon, 30-55 inches.



Silver (Coho) Salmon
Oncorhynchus kisutch
Small black spots usually occur only on upper lobe of tail and on back. Gum line on lower jaw not black. Scales large; less than 25 gill rakers, 13-15 anal fin rays. Size 24-28 inches.



Sockeye (Red) Salmon
Oncorhynchus nerka
No distinct black spots on back or tail; over 30-40 long, fine, serrated and closely spaced gill rakers over 12 anal fin rays. Relatively large eye. Size 18-24 inches.



Pink (Humpback) Salmon
Oncorhynchus gorbuscha
Large oval black spots on back and on both lobes of tail; scales very small; usually over 12 anal fin rays; males develop a pronounced hump during spawning. Size 15-24 inches.



Chum (Dog) Salmon
Oncorhynchus keta
No distinct black spots on back or tail; 18-28 smooth, short, stout, and widely spaced gill rakers; usually over 12 anal fin rays. Size 24-32 inches.



Steelhead
Oncorhynchus mykiss
Sea-run rainbow trout with bluish gray back and bright silvery sides. Small black spots on back, sides and tail. Pink/red coloration develops after returning to fresh water to spawn. Size several inches to over 40 inches.



Rainbow Trout
Oncorhynchus mykiss
Freshwater residents. Green to bluish black with silvery to yellowish-green sides. Broad pinkish band along side and black spots on back, sides, and tail. Upper jaw usually does not extend past eye.



Dolly Varden/Arctic Char
Salvelinus malma, S. alpinus
Round, red, pink or yellow spots on sides, tail slightly forked; 8-12 anal fin rays; no dark green wavy marks on back or dorsal fin. Arctic char occur from Bristol Bay to polar regions.



Lake Trout
Salvelinus namaycush
Body dark green to grayish with oval irregular white to yellowish spots on sides and back, tail deeply forked; 8-12 anal fin rays; no dark green wavy marks on back or dorsal fin.



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



Arctic Grayling
Thymallus arcticus
Dorsal fin much longer than in whitefish (especially in males) and fan-like. Rows of reddish to orange and/or purple to green spots on dorsal fin; sides of fish are black spotted; scales larger than in trout.



Burbot
Lota lota
Two dorsal fins and one anal fin present; no adipose fin as in trout, salmon, grayling and whitefish; pelvic fins very far forward and just under head; body long and tapering; barbel on chin.



Whitefish
Whitefish are distinguished from the trout and salmon by the small, weak, or absent teeth and the presence of large scales; distinguished from Arctic grayling by the much smaller dorsal fin.

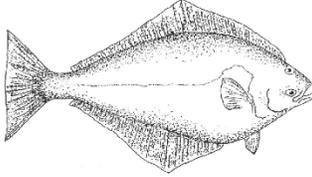


Northern Pike
Esox lucius
Dorsal and anal fins positioned rearward; no adipose fin as in trout, salmon, grayling and whitefish; long flattened jaws with large mouth and many sharp teeth, sides are yellowish gray.

Several common species that occur in AK are the round and humpback whitefish, least cisco, and sheefish. A sheefish is shown.

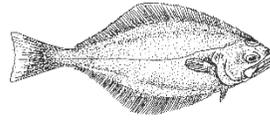
SALTWATER SPECIES COMMONLY FOUND IN ALASKA

FLATFISH



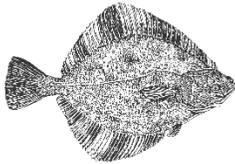
Pacific Halibut

Hippoglossus stenolepis
More elongated than most flatfishes, with width being about one-third the length. Adults have both eyes on their dark or upper side. Color on the dark side tends to assume the coloration of the ocean bottom. The underside is lighter, often white.



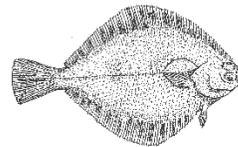
Arrowtooth Flounder

Atheresthes stomias
Large mouth and numerous sharp teeth. Little arching of lateral line. Upper eye reaches top of head. Length to 34 inches.



Starry Flounder

Platichthys stellatus
Black and yellow to orange bands on fins. Length to 36 inches.



Rock Sole

Lepidopsetta bilineata
Lateral line arched over pectoral fin. Jaw does not extend below middle of eye. Length to 24 inches.

ROCKFISH

More than 30 species occur in Alaska's coastal waters, and about a dozen are commonly taken in Alaska sport fisheries, including **yelloweye, black, dusky, quillback, copper, tiger, china, canary, redstripe, silvergray, roughey** and **shortraker** rockfish. These fish are characterized by having bony plates or spines on the head and body, a large mouth, and pelvic fins attached forward near the pectoral fins. The spines are venomous, and although not extremely toxic, can cause pain and infection. Some species are brightly colored, and many are difficult to distinguish from one another.



Black Rockfish

Sebastes melanops
Often misnamed "black bass". Dark gray to black with dusky white belly. Jaw extends to rear of eye. Up to 25 inches.



Yelloweye Rockfish

Sebastes ruberrimus
Also called red snapper. Orange red and orange yellow, with bright yellow eye. Size up to 36 inches. This is a non-pelagic rockfish; bottom dwelling and found on or near the ocean floor.



Dusky Rockfish

Sebastes ciliatus
There are both dark colored species (uniformly black, no white belly), and light dusky rockfish (brownish body color, whitish belly).



Copper Rockfish

Sebastes caurinus
Olive brown to copper with pink or yellow blotches, white on sides and belly. Up to 22 inches. Non-pelagic.

OTHER SALTWATER SPECIES



Lingcod

Ophiodon elongatus
Brown to reddish-brown with spots or blotches. Sharp teeth. Elongated body, large head and mouth, no barbel. Single dorsal fin, notched past the middle of its length. Can grow to 5 ft.



Kelp Greenling

Hexagrammos decagrammus
In the same family as lingcod, but lacking rigid spines on the dorsal fin. Male kelp greenling have irregular blue spots; females are various shades of golden yellow on their heads and fins. Only grow to about 21 inches.



Pacific Cod, Tomcod, and Pollock

All have three distinct dorsal fins, and two anal fins. No rigid spines on their fins. Small teeth. Pacific cod and tomcod have a prominent barbel beneath their chin; on pollock it is very small or absent. Pacific cod grow to 40 inches.



Sablefish, also known as "Black Cod"

Anoplopoma fimbria
Sablefish, commonly known as black cod, have a streamlined, elongated body, black to dark gray above fading to gray or white in the belly, with two dorsal fins and small teeth. Larger fish found in deep water, can grow to 40 inches.

The State of Alaska is an equal opportunity employer and service provider and complies with federal civil rights laws and Alaska Human Rights Law. Individuals with disabilities who require this publication in an alternative format are welcome to contact the Statewide Harvest Survey Program Manager for assistance at 907-267-2280 (individuals with hearing impairments via Alaska Relay at 711 or (800) 770-8973); by e-mail at dfig.dsf.publications@alaska.gov; or by mail to: Statewide Harvest Survey Program, Alaska Department of Fish and Game, 333 Raspberry Road, Anchorage, AK 99518-1599; or the Department's Americans with Disabilities Act Coordinator at 907-465-6077 or V/TTY (800) 478-3648.