



THE STATE
of **ALASKA**
GOVERNOR SEAN PARNELL

Department of
Fish and Game

DIVISION OF COMMERCIAL FISHERIES
Headquarters Office

333 Raspberry Road
Anchorage, Alaska 99518-1565
Main: 907.267.2105
Fax: 907.267.2442

November 19, 2012

Dear Western Alaska fishery stakeholder;

I am pleased to announce publication of results from the Western Alaska Salmon Stock Identification Program (WASSIP), a unique collaboration among stakeholders and scientists to address long-standing questions about harvest patterns of chum and sockeye salmon in Western Alaska fisheries. Spanning more than eight years, WASSIP is the largest salmon genetics study ever attempted, analyzing more than 225,000 samples to determine stock-specific compositions, harvests, and harvest rates of sockeye and chum salmon in subsistence and commercial fisheries from Chignik to Kotzebue.

Complete WASSIP results are contained in nine reports. Foundation for the study is presented in five reports documenting fishery sampling, genetic baselines for each species, and estimated stock-specific escapements for each species. Results of mixed stock fishery analyses are contained within two reports for each species: one documenting estimated stock compositions from genetic analyses; and one providing estimates of stock-specific harvest numbers and harvest rates for chum and sockeye salmon in WASSIP fisheries. The two reports for each species are intimately connected. Stock composition of fishery catches show percentage of harvest represented by various stocks in WASSIP fisheries. These stock percentages were applied to the number of fish harvested in the fisheries to determine stock-specific harvest numbers. Stock-specific harvest numbers for each WASSIP fishery were divided by the total run for each stock to determine the harvest rate. It is essential that stock composition, harvest, and harvest rate results for each species be considered together to gain a complete understanding and full context of study results. All reports can be accessed on the Alaska Department of Fish and Game website (<http://www.adfg.alaska.gov/index.cfm?adfg=wassip.reports>).

While these results cannot address all questions surrounding fishery impacts on chum and sockeye salmon stocks across this vast geography, WASSIP provided opportunity for representatives of major regional fishery interests to collaborate with technical experts on design of scientific studies to inform regulatory decisions. The many genetic and biometric advances achieved in the project, and the astounding magnitude of sampling efforts, will contribute to our basic understanding of Western Alaska chum and sockeye salmon stocks for many years to come.

Sincerely,

Eric C. Volk

Alaska Department of Fish and Game
WASSIP Advisory Panel Chair

Special Publication No. 12-25

**Harvest and Harvest Rates of Chum Salmon Stocks
in Fisheries of the Western Alaska Salmon Stock
Identification Program (WASSIP), 2007–2009**

by

Andrew R. Munro

Christopher Habicht

Tyler H. Dann

Douglas M. Eggers

William D. Templin

Mark J. Witteveen

Timothy T. Baker

Kathrine G. Howard

James R. Jasper

Serena D. Rogers Olive

Heather L. Liller

Erica L. Chenoweth

and

Eric C. Volk

This report was updated on July 1, 2014. Reporting Group column information, unintentionally left out of the original, was added to Appendix B1 (see page 326).

November 2012

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

SPECIAL PUBLICATION NO. 12-25

**HARVEST AND HARVEST RATES OF CHUM SALMON STOCKS IN
FISHERIES OF THE WESTERN ALASKA SALMON STOCK
IDENTIFICATION PROGRAM (WASSIP), 2007–2009**

By

Andrew R. Munro

Christopher Habicht

Tyler H. Dann

Alaska Department of Fish and Game, Division of Commercial Fisheries, Anchorage

Douglas M. Eggers

Alaska Department of Fish and Game, Division of Commercial Fisheries, Juneau

William D. Templin

Alaska Department of Fish and Game, Division of Commercial Fisheries, Anchorage

Mark J. Witteveen

Alaska Department of Fish and Game, Division of Commercial Fisheries, Kodiak

Timothy T. Baker

Kathrine G. Howard

James R. Jasper

Serena D. Rogers Olive

Heather L. Liller

Erica L. Chenoweth

and

Eric C. Volk

Alaska Department of Fish and Game, Division of Commercial Fisheries, Anchorage

Alaska Department of Fish and Game
Division of Sport Fish, Research and Technical Services
333 Raspberry Road, Anchorage, Alaska, 99518-1565

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Andrew R. Munro
Christopher Habicht
Tyler H. Dann

*Alaska Department of Fish and Game, Division of Commercial Fisheries,
333 Raspberry Rd, Anchorage, Alaska 99518-1565, USA*

Douglas M. Eggers

*Alaska Department of Fish and Game, Division of Commercial Fisheries,
1255 W. 8th Street, Juneau, Alaska 99811-5526 USA*

William D. Templin

*Alaska Department of Fish and Game, Division of Commercial Fisheries,
333 Raspberry Rd, Anchorage, Alaska 99518-1565, USA*

Mark J. Witteveen

*Alaska Department of Fish and Game, Division of Commercial Fisheries,
211 Mission Road, Kodiak, Alaska 99615-6327, USA*

Timothy T. Baker, Kathrine G. Howard, James R. Jasper, Serena D. Rogers Olive,
Heather L. Liller, Erica L. Chenoweth,
and
Eric C. Volk

*Alaska Department of Fish and Game, Division of Commercial Fisheries,
333 Raspberry Rd, Anchorage, Alaska 99518-1565, USA*

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(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 Rd, Anchorage AK 99518 (907) 267-2375

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ABSTRACT

Uncertainty about the magnitude, frequency, location, and timing of stock-specific sockeye and chum salmon harvest in Western Alaska fisheries was the impetus for the Western Alaska Salmon Stock Identification Program (WASSIP). The program was designed to use genetic data in mixed stock analysis of fisheries samples to more clearly describe harvest patterns of chum and sockeye salmon stocks in Western Alaska fisheries. A total of 71,656 samples were successfully analyzed from 194 temporal/fishery strata distributed from Chignik Area to Kotzebue Area. Stock composition estimates for temporal strata across fisheries were extended to estimates of stock-specific harvest numbers and harvest rates. This report reviews the history of WASSIP, summarizes the Memorandum of Understanding as the guiding document for the program, and reviews participation and contributions of the Advisory Panel and Technical Committee to the project. Brief descriptions of WASSIP chum salmon fisheries are provided and previous chum salmon tagging and stock identification studies are reviewed. We describe the methodology used to estimate stock-specific harvests and harvest rates for chum salmon, report these estimates, and provide guidance on interpretation of results. These results provide the most comprehensive examination of stock-specific harvest and harvest rates across Western Alaska chum salmon fisheries ever attempted.

Key words Western Alaska Salmon Stock Identification Program, WASSIP, chum salmon, *Oncorhynchus keta*, harvest rate, mixed stock analysis, MSA, genetic stock identification, GSI

INTRODUCTION

Chum salmon (*Oncorhynchus keta*) are important to the economy and culture of many communities in Western Alaska, particularly for areas north of Bristol Bay. In addition to commercial fisheries throughout the area, chum salmon are extensively harvested in subsistence fisheries across numerous communities in the Kuskokwim River and Bay, Yukon River, and Norton Sound (Wolfe and Spaeder 2009) and in Kotzebue Sound (Fall et al. 2007). Western Alaska chum salmon stocks are distributed over vast areas of the Bering Sea and subarctic north Pacific prior to the onset of spawning migrations (Quinn 2005; Meyers et al. 2007; Sato et al. 2009). The combination of chum salmon life history, spawning migratory pathways and the complex geography of Western Alaska creates potential for harvesting populations originating from river systems throughout the region as they return to natal streams. While a majority of chum salmon harvest in Western Alaska occurs in terminal and inriver fisheries (Linderman and Bergstrom 2009; Menard et al. 2009; Bue et al. 2009), the harvest of nonlocal fish occurs and can bias estimates of total run and stock productivity.

The Western Alaska Salmon Stock Identification Program (WASSIP) was initiated in 2006 with the signing of a Memorandum of Understanding (MOU) among 11 stakeholder signatories including the Alaska Department of Fish and Game (ADF&G), Aleut Corporation, Aleutians East Borough, Association of Village Council Presidents, Bering Sea Fishermen's Association, Bristol Bay Native Association, Concerned Area M Fishermen, Kawerak Incorporated, Lake and Peninsula Borough, Tanana Chiefs Conference, and Yukon River Drainage Fisheries Association. The program was designed to sample marine commercial and subsistence salmon fisheries in Western Alaska, with a goal to determine stock of origin for harvested chum and sockeye salmon to the finest resolution possible. The WASSIP study area includes marine waters of the following ADF&G salmon management areas: Chignik (Area L), Alaska Peninsula (Area M), Bristol Bay (Area T), Kuskokwim (Area W), Yukon-Northern (Area Y), Norton Sound-Port Clarence (Area Z) and Kotzebue (Area X; Figure 1). Signatory groups represent major regional fishery interests in the WASSIP study area, and their representatives comprise the WASSIP Advisory Panel.

While the signing of the MOU marks the official start date for WASSIP, discussions among many stakeholders, policy makers, and law makers clearly preceded this event and contributed to

genesis of the project. Since at least the 1990s, the Alaska Board of Fisheries and stakeholders were acutely aware of the need for better science-based information to address specific allocation and conservation concerns for sockeye and chum salmon fisheries in Western Alaska. Particular concern was repeatedly raised about catches of Western Alaska chum and sockeye salmon in fisheries targeting sockeye salmon near False Pass on the Alaska Peninsula in June. While previous tagging and genetic studies for sockeye and chum salmon provided useful information, limitations of these studies and a lack of comprehensive sampling throughout the affected fisheries limited their utility. Following the Board of Fisheries regulatory meeting for ADF&G Management Area M in 2004, increased tensions led to pointed discussions among ADF&G leadership and stakeholders to envision the kind of study that would provide better information to understand stock-specific impacts for both species among the many fisheries in Western Alaska.

Early WASSIP discussions began in February 2004, and discussions continued with ADF&G directors and commissioners of the time. ADF&G drafted the first proposal for federal funding to support the program, which included two years of fishery sampling and analysis of some 60,000 samples at a cost of just over \$5 million. The project completion date was estimated to be March, 2008. This proposal was not funded. In October 2004, the first formal Advisory Panel meeting was held to discuss elements of a MOU among stakeholders, outline specific analytical methods that would be used in the project, and formulate a second funding request for the Alaska congressional delegation. In 2005, the Advisory Panel sought support for this study proposal from Alaska's congressional delegation and was told that Alaska's U. S. Senator Stevens would only help secure this funding if stakeholders could agree on what information was necessary and how a study would be designed to obtain data that everyone would be able to support. For more than a year, the fledgling WASSIP Advisory Panel embarked on intense discussions attempting to gain consensus on a process for reaching a study design agreeable to all parties.

Further discussions with Senator Stevens led to a federal funding request for \$2.5 million for Federal Fiscal Year 2005. ADF&G was eventually awarded \$400,000 in federal funds as seed money to begin sampling WASSIP fisheries in 2006 and 2007. The second Advisory Panel meeting was convened in April 2006 when MOU elements were agreed to, and a three-year sampling plan for each species was conceived to collect some 142,000 samples, with a target completion date of April, 2010. The WASSIP MOU was formally signed and adopted on May 5, 2006, with no additional funding in place.

Over a two-and-a-half-year period between 2004 and 2007, ADF&G submitted three requests for federal funds, one request for state funds, and one proposal to the Arctic-Yukon-Kuskokwim Sustainable Salmon Initiative for chum salmon studies, without success. Between 2008 and 2010, an additional \$5.5 million in state funds supported baseline development for both species, additional sampling for both species, and genetic analyses of all samples. This roughly \$6 million is only a partial accounting of resources expended on WASSIP, as many WASSIP activities conducted by ADF&G staff were done on other fund sources and all Advisory Panel members and Technical Committee members (see below) provided many hours of uncompensated service to the project.

MEMORANDUM OF UNDERSTANDING

The Memorandum of Understanding (MOU) is the guiding document and underpinning of all activities associated with WASSIP and represents a unique, collaborative partnership among all

signatories to design and execute a scientific study. It provides introductory background to the project, purpose, guiding principles, structure of the Advisory Panel and Technical Committee, and mutual understandings. The signing of the MOU created the Advisory Panel, which approves all project activities by consensus, aided by input from a four-member Technical Committee. Since adoption in 2006, the MOU has been amended only once, when a provision to include estimation of harvest rates was added by the Advisory Panel in March, 2008.

The original and enduring purpose of WASSIP is to identify stock contributions of sockeye salmon and chum salmon to subsistence and commercial fisheries in Western Alaska, from Chignik management area north to Kotzebue Sound, with the finest resolution possible. Overarching objectives directed at this goal included extensive sampling of commercial and subsistence fisheries over this broad geography during a three-year period, development of improved and expanded genetic baselines for chum salmon and sockeye salmon, and laboratory and statistical analyses of fishery samples. Signatories agreed that ADF&G would be responsible for all analyses and reporting. However, because each study objective harbors substantial and complex technical detail, and because WASSIP stakeholders hold diverse views on potential outcomes of these investigations, Advisory Panel oversight and decisions were made in close consultation with a four-member Technical Committee representing world-class scientific expertise in genetics, population dynamics, biometrics and salmon ecology and life history. The interchange between the department and Technical Committee on analytical approach is captured in the WASSIP Technical Document series which includes presentations, discussions and recommendations on a variety of technical issues associated with the project. All technical documents can be accessed at the WASSIP web site <http://www.adfg.alaska.gov/index.cfm?adfg=wassip.tds>.

Advisory Panel signatories felt strongly that WASSIP fishery samples and analyses for both species should be represented as a complete set, with important contextual information associated with analysis and reporting of results for both species simultaneously. Recognizing this, the MOU made clear that analyses would not proceed until three years of samples were collected for both species and that no reporting of results would occur until three years of analyses for both species was complete. Similarly, the Advisory Panel stipulated that while ADF&G would steward all tissue samples, they should consult with the panel on any future use of the samples. An important stipulation in the WASSIP MOU is that activities would be conducted transparently before the public eye, with all meetings open and project materials accessible.

PARTICIPANTS

Since signing of the MOU, WASSIP has been overseen by a large number of participants, including three ADF&G Commissioners (McKie Campbell, Denby Lloyd, and Cora Campbell), four Commercial Fisheries Division Directors (Doug Mecum, Denby Lloyd, John Hilsinger, and Jeff Regnart) and seven Advisory Panel chairs (Doug Mecum, David Bedford, Denby Lloyd, Patti Nelson, Jim Seeb, John Hilsinger, and Eric Volk). Principle Advisory Panel representation among stakeholder groups has encompassed at least 17 individuals, supported by numerous technical experts. The four-member Technical Committee (Dr. Robin Waples, NOAA fisheries; Dr. Bruce Weir, University of Washington; Dr. Tom Quinn, University of Washington; Dr. Milo Adkison, University of Alaska) have served as principle scientific advisors to the Advisory Panel since 2008. At least 100 ADF&G technicians, biologists and fishery scientists formed the

backbone of sample collection efforts, tissue extractions, genetic analyses, data summaries, biometric analyses and report writing.

WASSIP ADVISORY PANEL CONTRIBUTIONS

The WASSIP MOU clearly identifies ADF&G as responsible for all technical analyses and reporting for the project, and establishes the oversight role of the Advisory Panel in program decision making. However, beyond the general obligation of Advisory Panel members to review and approve elements of the study plan, it should also be recognized that signatory representatives played a direct and tangible role in development of specific technical and programmatic components. It is clear that key elements of the project were directly influenced by their active participation, and contributions were fundamental in eventual outcomes of the project. Some of these contributions are summarized below.

Establishing the Web Page

A central expectation of WASSIP was that information from the program would be easily available to all interested parties. Many Advisory Panel members strongly urged the department to create a publically accessible website for posting of meeting agendas and minutes, and for disseminating scientific information associated with the project such as technical documents and reports. The web site has been an important communication tool for all things WASSIP. (<http://www.adfg.alaska.gov/index.cfm?adfg=wassip.main>).

Presentation Methods

All Advisory Panel members agreed that presentation of WASSIP results should emphasize clear presentation of WASSIP results that minimized technical jargon and employed easy to understand spatial mapping tools. Concern was raised that essential information from the project not simply be buried in summary tables and technical descriptions. One Advisory Panel member and one representative from the Gene Conservation Laboratory attended a two-day course on presentation methods taught by Edward Tufte to gather new ideas, some of which were incorporated into written and oral products.

Changes in Sampling Strategy

The Advisory Panel provided valuable and specific input on the original design of the sampling effort that forms the foundation of WASSIP results, and contributed substantively to modifications of that plan along the way. Early discussions helped identify the commercial and subsistence fisheries that should be included in the sampling plan, as well as temporal strata that could be reasonably excluded in view of budget constraints, such as late season catches assumed to be all local origin stocks. Fundamental changes were also made along the way, at the insistence of the Advisory Panel. Notably, a decision was made that collections executed by ADF&G for chum salmon in 2006 were flawed, largely because of inadequate sampling in marine waters at the mouth of the Yukon River (Management Area Y-1) and in Bristol Bay. This shortfall was viewed as so critical to ultimate study interpretations that a full additional year was added to the study design to correct it. Details of the entire sampling strategy and effort are documented in the WASSIP sampling report (Eggers et al. 2011).

Establishment and Selection of the Technical Committee

It was recognized early on in WASSIP that a Technical Committee composed of experts in applicable fields was a necessary component for a successful project. The Advisory Panel helped

formulate a list of possible candidates in the fields of genetics, biometrics, population dynamics and salmon ecology for participation in the project. At their urging, volunteer members were put in place two years after the signing of the MOU.

Detecting Stocks in Low Proportions

Many Advisory Panel members emphasized that stocks present in very low proportions in WASSIP fisheries must be adequately detected in mixed stock fishery analyses. Concern was expressed that the general standard of detecting a stock contribution of $\pm 5\%$, 90% of the time was inadequate to describe small contributions for some stocks in some fisheries. Instead it was suggested that analyses should strive to achieve a standard of $\pm 1\%$, 99% of the time and that the combining of spatial or temporal sampling strata should be considered to achieve that goal. The Advisory Panel formally adopted the principle that project analyses would strive to achieve this level of accuracy for genetic stock identification, even if that goal might not be achievable.

In response to Advisory Panel desires to explore this topic further, the department conducted a simulation study using a low proportion (1.1%) of North Peninsula sockeye salmon in a typical Bristol Bay, Ugashik District fishery. Three levels of summaries were calculated: 1) a separate estimate for each stratum in each year, 2) a broader estimate combining all strata within each year, and 3) a single grand estimate combining all years and strata. Estimates for individual strata were noisy with wide confidence intervals, often containing zero. The yearly estimates had tighter confidence intervals, one of which excluded zero, and the three-year estimate was near the true value with a tight confidence interval which excluded zero. Preliminarily, these results gave promise to the task of accurately and precisely estimating small proportions, as long as estimates combining spatial or temporal strata were acceptable. Details of this simulation can be found in Jasper et al. (2012).

Harvest Rates

When WASSIP began, most genetic stock identification studies for salmon in Alaska limited reporting to estimated stock proportions in the sampled fishery strata. Some Advisory Panel members vigorously argued that reporting only stock proportions of a sampled fishery failed to provide a complete picture of real impacts to those stocks. Rather, extension of those proportions to stock-specific numbers of fish harvested, and calculation of stock-specific harvest rates in the fishery was the appropriate way to evaluate those impacts. Some representatives, including ADF&G, resisted this because it would entail estimation of stock-specific terminal harvest and escapements for both species, which involves many assumptions and large uncertainties where data is limited. It also required significant additional work for the finite human resources available. Since the harvest rate objective was added to the MOU in 2008, *to the extent possible*, discussion of this topic over a period of two years was largely focused on that qualifying language, in recognition of the high degree of uncertainty associated with stock-specific escapement estimates. In the end, the goal was accomplished due to insistence of some Advisory Panel members, and willingness among stock assessment biologists, Advisory Panel members, and technical support staff to engage in detailed assessment of terminal harvest and escapement estimates, with explicit statements of uncertainties associated with each. The presentation of harvest rate data along with stock proportion results represents a fundamental shift in the way genetic stock identification results are contextualized by ADF&G.

Input on Reporting Groups

Reporting groups are a foundational element of WASSIP as they are the basic units to which mixtures are allocated. There are a number of technical considerations associated with defining reporting groups, such as adequate representation of actual spawning populations within the reporting group and the performance of the reporting group in tests designed to evaluate the baseline (proof and escapement tests; Dann et al. 2012a,b). However, defining reporting groups should account for stakeholder interests, including sociological needs and management information gaps, as well as biological and statistical constraints (Habicht et al. 2012a). To ultimately define reporting groups for each species, decision trees were established that began with stakeholder desires for relevant reporting groups. Lengthy discussions within the Advisory Panel outlined those needs and staff from the ADF&G Gene Conservation Laboratory subsequently applied technical criteria to determine if the desired suite of reporting groups would provide statistically supportable estimates. The final set of reporting groups for each species often deviated from those ideally sought by the Advisory Panel, but represented the best, statistically defensible compromise.

Determination of chum salmon reporting groups in Western Alaska provides a good illustration of cooperation among the Advisory Panel and technical staff to arrive at solutions. From the outset, a major impetus for WASSIP for many stakeholders was to better identify chum salmon stock groups from Bristol Bay to Norton Sound. All panel members strongly desired that, at minimum, stocks from Norton Sound, Yukon River, Kuskokwim River, and Bristol Bay could be distinguished in fishery mixtures. At a joint meeting of the Advisory Panel and Technical Committee, the Gene Conservation Laboratory presented results evaluating reporting groups for the chum salmon baseline which indicated a low level of resolution in the Coastal Western Alaska (CWAK) area (DeCovich et al. 2012a). The lab recommended pooling the four groups of CWAK into a single aggregate for stock composition estimates. Because this was such a fundamental concern for stakeholders, the Advisory Panel requested additional evidence that pooling was necessary, prompting the laboratory to run several fishery-based proof tests of hypothetical mixtures of chum salmon covering a range of possible real-life scenarios in fisheries around Western Alaska. In consultation with the WASSIP Technical Committee, laboratory staff worked closely with an ad hoc committee composed of Advisory Panel members and technical staff, who developed five hypothetical mixtures for use in the simulations. In every simulated fishery-based proof test, the stock composition estimates for CWAK as a single reporting group were more precise and had smaller confidence intervals than for the reporting groups of the subdivided CWAK. These fishery-based proof tests provided insight into the magnitude of errors and magnitude and direction of biases resulting from the division of CWAK into four reporting groups. The results showed that the combined CWAK estimate was relatively precise and only slightly biased. Based on these results the committee agreed unanimously to recommend the pooling of CWAK stocks for the purposes of estimating mixture samples in WASSIP. While this result was a huge disappointment for most representatives, the additional collective work was essential for establishing the credibility of the combined reporting group and trust that all reasonable avenues were explored. Details of this study component can be found in Habicht et al. (2012b).

Marker Type Used

The decision as to what genetic marker type, microsatellites (mSATs) or single nucleotide polymorphisms (SNPs) would be used in the WASSIP study lingered for 18 months following

the first Advisory Panel meeting after the MOU was signed. The department had made it clear that their laboratory was actively transitioning toward a focus on SNP analyses, and as the lab responsible for WASSIP analyses, this should be the preferred path. Some representatives took exception to this stance as reason for using SNPs, and argued that extensive baselines were available for mSATs in Western Alaska, and that inclusion of other laboratories in analyses might make use of these markers a practical option. Some felt that ADF&G had failed to adequately consider the needs of all stakeholders in previous discussions.

To reach resolution on this critical technical issue, the Advisory Panel agreed to engage the Technical Committee. While it was generally recognized that either genetic marker could theoretically be used to accomplish the goals of WASSIP, Technical Committee members also agreed that the decision was as much influenced by economic considerations as by inherent genetic attributes of either marker. In particular, the Technical Committee generally confirmed the widely held notion that economies associated with the use of SNPs made them more practical for very large projects (such as the human genome project) and that easy transferability of results between laboratories was an advantage. Ultimately, the Advisory Panel agreed with recommendations put forth by the department, and supported by the Technical Committee, that the sheer scale of WASSIP in terms of sample numbers required the economies offered by SNPs. The decision to use SNPs in the WASSIP study was reached in spring, 2008.

Increasing the Number of Genetic Markers

Recognizing that the fundamental purpose of WASSIP was to determine stock of origin for sockeye and chum salmon in fisheries samples to the greatest resolution possible, several Advisory Panel members suggested that the evolutionary history of Western Alaska chum salmon in particular required that the available set of 53 SNP markers be expanded to improve chances of greater stock resolution. Because of the technical platform used by the laboratory, the most efficient number would be 96 SNPs. Discussions about adding markers for both species involved considerations of time, budget, and the likelihood that additional SNPs would improve stock resolution.

The department established a contract with the International Program for Salmon Ecological Genetics at the University of Washington for discovery of additional chum salmon SNPs. These efforts were based on cDNA sequences from two chum salmon sampled from the Susitna (Cook Inlet) and Delta (Yukon River) rivers. This process added 37 validated SNPs to those already available for use in chum salmon for WASSIP. Subsequent efforts raised the total number of available SNPs to 228 (DeCovich et al. 2012b). The SNPs discovered through this and other efforts were assayed in 30 populations and a subset of the best 96 SNPs was used for mixed stock analysis in WASSIP. Details of SNP discovery for chum salmon can be found in DeCovich et al. (2012c).

These specific topics of technical and programmatic direction are just some of the areas where participation of this stakeholder driven Advisory Panel provided impetus and input that resulted in tangible benefits to the overall study.

PREVIOUS CHUM SALMON TAGGING AND STOCK COMPOSITION STUDIES IN WASSIP FISHERIES

Tagging studies were initiated early in the history of the North and South Alaska Peninsula fisheries to identify origins of chum and sockeye salmon in the fishery catch (Table 1). Studies

conducted from 1922 to 1939 removed fish from commercial fish traps and affixed numbered aluminum strips to caudal fins. Tagging occurred during June through early July and fish were recovered in fisheries or from escapements through voluntary returns. Only presence or absence of stocks in the fishing areas can be inferred from these studies due to differential and unknown tagging mortalities and/or recapture probabilities among the stocks present.

Several hundred tagged chum salmon were released in early to mid-July in the Ikatan and Shumagin Islands areas in 1923 (Gilbert and Rich 1925). Only six tags were recovered outside local fisheries in Bristol Bay, Yukon River, with one recovery in Russia (Table 1). Less than 200 tagged chum salmon were released during June from the S. Unimak/Ikatan, and Shumagin Islands areas in 1939 (Shaul 2005). Six tags from these releases were recovered in Kuskokwim River and Bristol Bay (Table 1).

As part of studies from 1956 through 1987, chum salmon were released tagged with Petersen disks or spaghetti tags from purse seine catches in the S. Unimak/Ikatan, Shumagin Islands, and E. Stepovak areas. Releases of chum salmon in late June, 1956, and late May, 1957, from S. Unimak/Ikatan area were part of the International North Pacific Fisheries Commission high seas salmon tagging studies (Hartt 1962). Tags were recovered in Yukon and Kuskokwim rivers, Bristol Bay, North Peninsula, South Peninsula, and Russia (Table 1). The 1961 study (unpublished ADF&G report obtained from Mark Witteveen, Division of Commercial Fisheries, Kodiak, Alaska) released 42 tagged chum salmon in the E. Stepovak area during the last two weeks in June, with only three recoveries in local fisheries and two in Chignik Area fisheries (Table 1). Tagged chum salmon released from mid-June to mid-July in the S. Unimak/Ikatan area (Thorsteinson and Merrill 1964) were recovered throughout Western Alaska, in Russia, and in Japan (Table 1).

ADF&G conducted a large tagging study in 1987, with releases of 6,323 chum salmon in the S. Unimak/Ikatan and Shumagin Islands areas during June (Eggers et al. 1991). The study was designed to temporally release tagged fish in the area of the South Alaska Peninsula June fishery, proportional to the catch in two principal fishing areas. The 1987 study was characterized by a large number of releases relative to earlier studies, together with a highly publicized tag recovery effort, as well as a sampling and fishermen interview program designed to directly estimate the tag reporting rate by fishery. Recovery patterns of chum salmon releases from the S. Unimak/Ikatan and Shumagin Islands areas were more extensive than those of earlier studies.

Tag recoveries from this study indicated that chum salmon from across the Pacific Rim were present in the South Alaska Peninsula June fishery, with tags from nonlocal fisheries contributing 86% of recoveries from S. Unimak releases, which included 96% from western Alaska, 3.3% from Asia and 0.7% from eastern Gulf of Alaska. Additionally, 69% of recoveries from Shumagin Islands releases included 74.6% from western Alaska, 17.2% from Asia, and 8.1% from eastern Gulf of Alaska (Table 1). It is important to note that data from this study cannot be used to imply stock composition estimates for the fisheries because probabilities of stock-specific harvests in terminal areas, probabilities of tags being reported, and mortalities of tagged fish between tagging and recovery could not be estimated for chum salmon in this study.

Historical tagging studies show that chum salmon stocks throughout the Pacific Rim, from coastal British Columbia to Japan, were present in the South Alaska Peninsula June fisheries. Tags from western Alaska stocks dominated recoveries, particularly those released in the South

Unimak areas, and central Alaska stocks and Asia stocks of chum salmon were more prevalent in recoveries from tag releases in the Shumagin Islands area.

Several tagging studies were conducted in Arctic-Yukon-Kuskokwim (AYK) fishing areas between 1966 and 1986 (Table 2). More than 5,000 tagged chum salmon were released in the Kotzebue Sound District, from 1966 to 1968, and from 1981 to 1982 (Yanagawa 1969; Bigler and Burwin 1983). Almost all of the recoveries of tags from these releases occurred in the Kotzebue District commercial fishery, subsistence fisheries in the Noatak and Kobuk rivers, and spawning ground surveys in those rivers (Table 2). In the Kotzebue Sound studies, only one recovery (recovered in the Yukon River subsistence fishery) occurred outside the Kotzebue Sound area.

An important tagging study was conducted in Norton Sound from 1978 to 1979 (Gaudet and Schaefer 1982), where chum salmon were tagged and released in the Nome, Shaktoolik, and Unalakleet subdistricts (Table 2). Recoveries from the Nome Subdistrict releases occurred mostly in the Nome Subdistrict; however, significant recoveries were made in the Kotzebue Sound area and a few in Norton Sound areas east of the Nome Subdistrict. Recoveries from the Unalakleet Subdistrict releases were widespread, with recoveries in the Unalakleet and Shaktoolik subdistricts, Norton Sound areas northwest of the release area, and significant recoveries in the Yukon River. Releases in the Shaktoolik Subdistrict occurred in 1979, with most of the recoveries in the Shaktoolik Subdistrict and a few in Norton Sound areas northwest of the release area. This study clearly indicated that some chum salmon bound for other areas and districts occur in Norton Sound commercial fisheries (Table 2).

In 1986, tagged chum salmon were released in Hooper Bay, near the village (Kirkvliet 1986). Most recoveries were made by the tagging crew or in the Hooper Bay subsistence fishery (Table 2); however a large number of recoveries occurred distant to the release area. These included the Yukon River (119 recoveries) and various areas in Norton Sound (15 recoveries).

From 1969 to 1970, tagged chum salmon were released in District (W4), near Quinhagak (Baxter 1970). Most recoveries were in the W4 commercial fishery with some recoveries in the Kanektok and Kuskokwim Rivers (Table 2).

GENETIC STOCK IDENTIFICATION STUDIES

Quantitative stock identification studies have been conducted on the South Alaska Peninsula June fisheries from 1993 to 1996 (Seeb et al. 1997; Seeb and Crane 1999), and for the South Alaska Peninsula post-June fisheries from 1996 to 1997 (Crane and Seeb 2000). The studies used allozyme genetic markers to identify contributions from 10 genetic reporting groups including three from Asia (Japan, China/Southern Russia, and Northern Russia), two from western Alaska (northwest Alaska summer and Fall Yukon) stocks, and five from the Alaska Peninsula and to the east (North Alaska Peninsula/South Alaska Peninsula/Kodiak, Susitna River, Prince William Sound, Southeastern Alaska/Northern B.C., and Southern B.C./Washington). For the June fishery in the South Unimak Area, over the years 1993 to 1994, the Asia stock contribution averaged 24.5% (22% to 27%); the western Alaska stock contribution averaged 57.5% (45% to 66%), and Alaska Peninsula and to the east stock contribution averaged 19% (10% to 33%). For the June fishery in the Shumagin Islands area over the years 1993 to 1996, the Asia stock contribution averaged 31.3% (25% to 33%), the western Alaska stock contribution averaged 46% (38% to 53%), and the East of Alaska Peninsula stock contribution averaged 22% (17% to 29%). These results were broadly consistent with the 1987 tagging study in that stocks throughout the

Pacific Rim were present, western Alaska stocks dominated the catch particularly in the South Unimak Area, and Asia stocks were more prevalent in the Shumagin Island area catches.

For the Shumagin Islands post-June fishery, the Asia stock contribution was 6% in 1996 and 13% in 1997, the western Alaska stock contribution was 5% in 1996 and 0% in 1997, and the East of Alaska Peninsula stock contribution was 89% in 1996 and 87% in 1997. For the post-June fishery in the mainland areas (consisting of the Southeastern District Mainland and the Unimak, Southwestern, and South Central Districts), the Asia stock contribution was 4% in 1996 and 7% in 1997, the western Alaska stock contribution was 5% in 1996 and 0% in 1997, and the East of Alaska Peninsula stock contribution was 95% in 1996 and 92% in 1997.

DESCRIPTION OF CHUM SALMON FISHERIES IN THE WASSIP AREA

Subsistence fisheries for chum salmon in the AYK region have occurred throughout history by indigenous people; their harvest represents both a critical food source and the cultural fabric of native Alaskans in the region. Subsistence harvest of chum salmon remains a significant part of the overall chum salmon catch in AYK and occurs throughout the many villages in Kuskokwim, Yukon and Norton Sound areas. There was some commercial harvest at varying levels throughout AYK region in the early 1900s, and in Norton Sound from 1916 to 1921, followed by very low harvest until statehood. Commercial fisheries for chum salmon for some areas began in the early 1960s, but commercial fisheries in all AYK areas were not fully developed until the early 1970s. Legal fishing gear in AYK commercial fisheries includes set gillnet for Kotzebue District, set and drift gillnet in all other AYK areas, and fish wheels in some upper Yukon River fishing districts. In the AYK area, chum salmon commercial and subsistence dominated chum salmon harvests in the WASSIP area from 1970 to 1990.

CHIGNIK AREA FISHERIES

Chum salmon in Chignik Area fisheries are harvested with sockeye salmon. Provided escapement of Chignik late-run sockeye salmon is achieved, Eastern and Western/Perryville districts are managed based on abundance of local chum and pink salmon stocks. During the period from 1980 to 2010, the commercial harvest of chum salmon in the Chignik Area averaged 184,000 fish and ranged from 1,000 to 581,000 fish (Figure 2).

Subsistence salmon harvests are important to local residents, although chum salmon represent a relatively small part of that harvest. For the period from 1990 to 2009, as many as 219 residents requested subsistence fishing permits, reporting an average chum salmon harvest of 263 fish.

SOUTH ALASKA PENINSULA AREA FISHERIES

The South Alaska Peninsula June fishery primarily targets sockeye salmon and also harvests chum salmon. Fish harvests began as early as 1888, with documented catches in the area beginning in 1908. Prior to the mid-1930s, fish traps dominated the gear deployed in South Alaska Peninsula area. The participation in the modern South Alaska Peninsula fishery was set in 1972 with adoption of limited entry. Legal gear includes purse seines, drift gillnets, and set gillnets. There was an expansion in the fishing effort in the area following limited entry as many individuals that fished both purse seine and set gillnets were given permits for both gear types. The dual permit holders transferred or sold their set gillnet permits. Weekly fishing periods were in place under state management prior to 1973 with the fishery open five to seven days per week.

Fishing time restrictions were placed on the June Fishery in 1973, and the June fishery was closed in 1974 due to anticipated weak Bristol Bay sockeye salmon runs. Beginning in 1975, the Alaska Peninsula June fishery was managed with guideline harvest levels of sockeye salmon based on projected harvest of sockeye salmon in Bristol Bay. Beginning in 1982, a variety of additional restrictions were adopted by the Board of Fisheries designed to limit the harvest of chum salmon. In 2001, the sockeye salmon guideline harvest levels as well as the restrictions on chum salmon harvests were eliminated and weekly fishing implemented. Fishing time was liberalized in 2004.

The South Alaska Peninsula post-June fishery has generally been managed by fishing time according to local abundance of chum and pink salmon; it has also been managed to reduce impacts on migrating coho salmon. In 1975, the fishery was severely restricted to protect pink salmon runs. From 1976 to 1991 the fishery was managed by emergency order based on the run strength of local stocks of pink and chum salmon and the fishery continues into late August during years of strong pink and chum salmon runs. After 1992, the fishery was managed under the Post-June Management Plan implemented to reduce the catch of migrating coho salmon in the fishery. There were a few changes in post-June fishery management over the years, including expanding terminal areas and at times implementing a 60,000 coho salmon catch ceiling for nonterminal areas.

Chum salmon are also caught with targeted sockeye salmon in the Southeastern District Mainland (SEDM) fishery. Prior to 1974, the SEDM fishery was regulated by set weekly fishing periods, which were usually five days per week. From 1974 to 1978 the fishery was opened on a day-to-day basis, coordinated with openings in Chignik Bay. In 1978 seining was disallowed in the SEDM prior to July 10. Beginning in 1979, the SEDM fishery was managed with harvest ceilings linked to Chignik sockeye salmon harvest. In 1985, the timeframe for the SEDM management plan was expanded to June 1 through July 25 and the SEDM harvest was based on an allocation of Chignik-bound sockeye salmon. Beginning in 1996, the Northwest Stepovak Section and the Stepovak Flats Section within the SEDM were based on local stocks beginning on July 1. During 1998 through 2007, several changes were made to the SEDM management plan including changes to local stock management, harvest goals in Chignik, and allocation percentages. After July 25, SEDM is managed on the abundance of local pink and chum salmon stocks.

During the period from 1980 to 2010, the commercial harvest of chum salmon in the South Alaska Peninsula Area averaged 1.24 million fish and ranged from 0.62 million to 2.27 million fish (Figure 2).

Subsistence harvest of salmon is an important source of food for local residents of the Alaska Peninsula. Average subsistence harvest of chum salmon among communities of Port Heiden, Nelson Lagoon, Port Moller, Cold Bay, False Pass, King Cove, and Sand Point, from 2005 to 2009 was 649 fish. For some years since 1985, harvests have exceeded 3,000 fish.

NORTH ALASKA PENINSULA AREA FISHERIES

Chum salmon are harvested with sockeye salmon in North Alaska Peninsula area commercial fisheries. The first fish traps were deployed in Nelson Lagoon in 1906 and fisheries were established in other North Peninsula areas in 1912. A wide variety of gears were used in the North Peninsula fishery, including beach seines, gillnets, purse seines and fish traps (Rich and Ball 1928). Until mid-1930, almost all salmon were harvested with fish traps. The modern North

Peninsula fishery was established with limited entry in 1972. Although legal gear in the North Peninsula includes hand purse seines, purse seines, set gillnets and drift gillnets, the vast majority of fishing effort is with drift gillnets.

Weekly fishing periods for North Alaska Peninsula are codified in the present-day regulations with the provision that fishing periods may be modified by emergency order. Beginning in the late 1960s, the North Alaska Peninsula fisheries were managed by inseason modification of the weekly fishing schedule by emergency order according to run strength of local sockeye salmon stocks in the North Alaska Peninsula Area.

During the period from 1980 to 2010, the commercial harvest of chum salmon in the North Alaska Peninsula area averaged 238,000 fish and ranged from 15,000 to 805,000 fish (Figure 2).

Subsistence harvest of salmon is an important source of food for local residents of the Alaska Peninsula. Average subsistence harvest of chum salmon among communities of Port Heiden, Nelson Lagoon, Port Moller, Cold Bay, False Pass, King Cove, and Sand Point, from 2005 to 2009 was 649 fish. For some years since 1985, harvests have exceeded 3,000 fish.

BRISTOL BAY AREA FISHERIES

Chum salmon are harvested incidentally with sockeye salmon in Bristol Bay area commercial fisheries. The Bristol Bay salmon fishery developed rapidly between 1899 and 1902 with effort directed near the major river systems producing sockeye salmon. Maturing salmon were concentrated and efficiently captured with drift gillnet gear that could be operated in the shallow waters of Bristol Bay. A large number of canneries (relative to the number of processors operating today) were built along the estuaries of the major rivers. The Bristol Bay sockeye salmon fishery was fully developed by the early 1920s. Most of the salmon were captured with drift gillnets, although a few fish traps were operated from 1903 to 1924. Drift gillnets were deployed from sailboats until 1951, when power fishing vessels were allowed. Less efficient sailboats were abandoned by 1954. The modern day fishery in Bristol Bay (Management Area T) uses drift gillnets and set gillnets. Participation in the fishery was set by the limited entry act of 1972.

Under state regulations, the Bristol Bay fishery is managed using escapement goals established for the major sockeye salmon stocks in Bristol Bay, with fisheries opened inseason by emergency order based on assessments of run strength. Over time, fishing districts were broken into subdistricts and special harvest areas giving managers flexibility to better target harvests on specific stocks. Under state regulations, more fishing was allowed during strong runs than under Federal management, while considerably less fishing was permitted during weak runs than under Federal management.

During the period 1980 to 2010, the commercial harvest of chum salmon in the Bristol Bay area averaged 1.12 million and ranged from 0.32 million to 2.2 million (Figure 2).

Subsistence fishing for salmon has taken place in the Bristol Bay area for thousands of years, providing an important source of food for local residents. Chum salmon are harvested in lower numbers than sockeye salmon, with an average harvest of 5,145 fish during the period 1990 to 2009.

KUSKOKWIM AREA FISHERIES

Subsistence salmon fishing activities in Kuskokwim area are widespread among 38 communities consisting of approximately 4,500 households. Much of the subsistence salmon fishing occurs on the mainstem Kuskokwim River; however, fishing also occurs in many tributaries and in Kuskokwim Bay and local drainages to the bay. Residents of several Bering Sea coastal communities also harvest salmon for subsistence purposes from coastal waters and local tributaries, as well as on Nunivak Island. Subsistence harvest estimates are generated through voluntary participation in annual household subsistence harvest surveys (Whitmore et al. 2008).

The current system of commercial salmon fishing districts in the Kuskokwim area was established in 1960 with districts in the Kuskokwim River and District 4 off the mouth of Kanektok River. District 5, in Goodnews Bay, was established in 1968. Legal gear includes drift gillnet and set gillnet. The first harvest of chum salmon occurred in District 4 in 1961 and in the Kuskokwim River in 1967. The chum salmon directed fishery in the Kuskokwim River was initiated in 1971 with gill nets restricted to 6 inches or smaller after June 25. Chum salmon catches were low from 1997 until 2008, due to low prices, lack of markets, lack of processing capacity, and weak runs. Kuskokwim Area chum salmon were designated a stock of yield concern by the Alaska Board of Fisheries in 2000. Chum salmon catches have increased in recent years due to a new processing plant in Kuskokwim Bay starting in 2009, improved markets, and large runs. The stock of concern status was removed in 2007.

During the period from 1980 to 2010, the commercial harvest of chum salmon in the Kuskokwim Area averaged 319,000 fish and ranged from 20,000 to 1.4 million fish. The subsistence harvest of chum salmon in the Kuskokwim area, during the period of available subsistence harvests, 1990 to 2009, averaged 77,000 fish and ranged from 38,000 to 157,000 fish.

YUKON AREA FISHERIES

Subsistence salmon fishing in the Yukon River occurs between late May and early October, and is highly dependent upon river ice conditions. Fishing is usually based in fish camps or home communities and extended family groups often work together to harvest and preserve salmon for subsistence use. Annual estimates of subsistence salmon harvest are obtained through voluntary participation in annual household harvest surveys (Jallen et al. 2012).

Some commercial harvest of chum salmon undoubtedly occurred on the Yukon prior to statehood but early Yukon River salmon commercial fisheries were primarily directed at Chinook salmon. Summer chum salmon harvest increased greatly during the 1980s, due to regulation changes, development of markets, higher prices and processing capacity. Guideline harvest levels for summer chum salmon were established in 1990. In 1994, the Anvik River chum salmon fishery management plan was adopted, allowing for a commercial summer chum salmon roe fishery. From 1998 through 2003, below average runs and poor commercial market conditions resulted in limited exploitation of summer chum salmon. In 2007, both run strength and market conditions improved, allowing for directed commercial opportunity. Redeployment of the summer chum salmon fishery has been hindered by management measures to reduce harvest of co-occurring Chinook salmon. During the period from 1980 to 2010, the commercial harvest of summer chum salmon in the Yukon Area averaged 503,000 fish and ranged from 0 to

1.62 million fish. The subsistence harvest of summer chum salmon in the Yukon area, from 1980 to 2010, averaged 110,000 fish and ranged from 58,000 to 197,000 fish.

The state-managed and directed Yukon fall chum salmon commercial fishery began in 1961, with guideline harvest levels for specific districts established in 1974. Fall chum salmon catches increased beginning in 1979, but weak runs and reduced escapements in the mid-1980s resulted in more conservative management and reduced commercial harvests. The Alaska Board of Fisheries adopted the Yukon Drainage Fall Chum salmon management plan in 1994, which provided specific measures for subsistence and commercial fisheries to conserve fall chum salmon. The plan has been amended several times. During the period from 1980 to 2010, the commercial harvest of fall chum salmon in the Yukon area averaged 124,000 fish and ranged from 0 to 478,000 fish. The subsistence harvest of fall chum salmon in the Yukon area, 1980 to 2010, averaged 120,000 fish and ranged from 19,000 to 342,000 fish.

NORTON SOUND AREA FISHERIES

Subsistence fishing for chum salmon is a widespread activity among more than 30 small villages scattered along the coast and on rivers of the area. Chum salmon historically represent the most important component of Norton Sound subsistence harvest. Beginning in 1991, Nome Subdistrict subsistence fisheries were restricted, and not allowed until escapement goals were assured. Chum salmon in subdistricts 1, 2, and 3 have been listed as stocks of yield concern by the Alaska Board of Fisheries for several years. The Nome Subdistrict subsistence fishery was designated Tier II in 1999. Subsistence harvests of chum salmon in the Nome Subdistrict have been low since the early 1990s. Subsistence salmon permits are required in many Norton Sound fishing districts and annual harvest estimates are derived from return of these harvest permits (Menard et al. 2009).

State-managed commercial fishing in the Norton Sound District began in 1961 in the Shaktoolik and Unalakleet subdistricts with peak canning operations in 1963. Since then, markets for chum salmon have been sporadic, with buyers in some subdistricts unavailable for the entire season. Little or no commercial fishing has occurred in the Nome and Norton Bay subdistricts since the early 1980s due to weak runs and restrictions, or lack of fish buyers.

During the period from 1980 to 2010, the commercial harvest of chum salmon in the Norton Sound District averaged 69,000 fish and ranged from 1 to 319,000 fish. The subsistence harvest of chum salmon in the Norton Sound District from 1980 to 2010 averaged 21,000 fish and ranged from 4 to 65,000 fish. These are likely minimum estimates because not all villages were surveyed annually.

KOTZEBUE SOUND AREA FISHERIES

There were some harvests of chum salmon in the Kotzebue District to supply miners during the early part of the 20th century, with documented commercial harvest from 1914 to 1918. The commercial fishery under state management began in 1962. The commercial fishery was fully developed by the mid-1970s. Since 1995, poor market conditions have limited commercial harvests below potentials. During the period from 1980 to 2010, the commercial harvest of chum salmon in the Kotzebue Sound District averaged 209,000 fish and ranged from 8,000 to 677,000 fish. The subsistence harvest of chum salmon in the Kotzebue area from 1980 to 2010 averaged 55,000 fish and ranged from 13,000 to 100,000 fish. These are surely minimum estimates because not all villages were surveyed annually.

DEFINITIONS

To reduce confusion associated with the methods, results, and interpretation of this study, basic definitions of commonly used genetic and salmon management terms are offered here.

Allele. Alternative form of a given gene or DNA sequence.

Credibility Interval. In Bayesian statistics, a credibility interval is a posterior probability interval. Credibility intervals differ from the confidence intervals in frequentist statistics in that they are a direct statement of probability: i.e., a 90% credibility interval has a 90% chance of containing the true answer.

District. Waters open to commercial salmon fishing. Commercial fishing districts, subdistricts and sections in WASSIP commercial fishing areas are defined in statutes listed below under *Salmon administrative area*.

Escapement. The annual estimated size of the spawning salmon stock (5 AAC 39.222(f)).

F-statistics. Measures used to partition genetic diversity within and among populations in a hierarchical fashion.

Genetic Marker. A known DNA sequence that can be identified by a simple assay.

Genotype. The set of alleles for one or more loci for an individual.

Harvest. The number of salmon taken of a run from a specific stock.

Harvest Rate. The fractional harvest from a stock taken in a fishery.

Locus (Loci, plural). A fixed position or region on a chromosome that may contain more than one genetic marker.

Mixed Stock Analysis (MSA). Method using allele frequencies from populations and genotypes from mixture samples to estimate stock compositions of mixtures.

Polymerase Chain Reaction (PCR). Method which amplifies a single or few copies of a locus across several orders of magnitude, generating millions of copies of the DNA.

Posterior Probability Distribution. The distribution of an unknown quantity, treated as a random variable, conditional on the evidence obtained from an experiment or survey.

Prior Probability Distribution. The distribution that expresses uncertainty and information of an unknown quantity before taking into account data.

Reporting Group. A group of populations in a genetic baseline to which portions of a mixture are allocated during mixed stock analyses; constructed based on a combination of stakeholder needs and genetic distinction and approved by the WASSIP Technical Committee and Advisory Panel. For the purposes of WASSIP chum salmon analyses, reporting groups were defined as: 1) Asia, 2) Kotzebue Sound, 3) Coastal Western Alaska, 4) Upper Yukon River, 5) Northern District, 6) Northwestern District, 7) South Peninsula, 8) Chignik/Kodiak, and 9) East of Kodiak

Run. The total number of salmon in a stock surviving to adulthood and returning to the vicinity of the natal stream in any calendar year, composed of both the harvest of adult salmon plus the escapement; the annual run in any calendar year. The run is composed of several age classes of mature fish from the stock, derived from the spawning of a number of previous brood years (from 5 AAC 39.222(f)).

Salmon Administrative Area (Area). Geographic areas used to administer the registration of commercial salmon fishing permits (from 20 AAC 05.230). Commercial salmon fishing areas are designated by letter code and are defined by the following Alaska administrative code: Chignik (Area L; 5 AAC 15.100); Aleutian Islands and Alaska Peninsula (Area M; 5 AAC 12.100, 5 AAC 09.100, and 5 AAC 11.101); Bristol Bay (Area T; 5 AAC 06.100); and Kuskokwim (Area W; 5 AAC 07.100). Districts and subdistricts within areas are used to aid management are further defined by administrative code.

Salmon Stock. A locally interbreeding group of salmon that is distinguished by a distinct combination of genetic, phenotypic, life history, and habitat characteristics or an aggregation of two or more interbreeding groups, which occur in the same geographic area and is managed as a unit (from 5 AAC 39.222(f)). For purposes of this study, a chum salmon *stock* is a composite of populations that spawn within 1 of the 9 geographic regions defined as reporting groups above.

Single nucleotide polymorphism (SNP). DNA sequence variation occurring when a single nucleotide (A, T, C, or G) differs among individuals or within an individual between paired chromosomes.

METHODS

TOTAL RUN

In a regional fishery there are a number of component fisheries (f) and a number of reporting groups (y), with each reporting group occurring to some extent in all component fisheries. The key elements necessary to calculate the annual total run for each reporting group N_y are annual estimates of each run component, with associated coefficients of variation (CVs), of the y^{th} reporting group:

$$N_y = T_y + E_y + \sum_f C_{f,y},$$

where T_y is the terminal harvest of the y^{th} reporting group, E_y is the escapement of the y^{th} reporting group, and $C_{f,y}$ is the harvest in WASSIP fisheries of the y^{th} reporting group in the f^{th} fishery. A reporting group may consist of several assessed drainage- or area-wide groups of populations; therefore, the assessed population(s) or escapements and terminal harvests for the reporting group must be aggregated to estimate E_y and T_y as described in Eggers et al. (2012). Terminal harvest also occurred for reporting groups exploited in unsampled fisheries within the WASSIP area where it was assumed that 100% of the fish harvested belong to a single reporting group. These harvests included subsistence harvest not included in the WASSIP sampling plan, commercial harvest in terminal areas, and inriver commercial harvest.

A measurement error model was used to express the uncertainty in the i^{th} component O_i (harvest, terminal harvest, and escapement) of the reporting group's run N_y . Each run component (O_i) was modeled as a lognormal random variable,

$$O_i | \mu_{O_i}, \lambda_{O_i}^2 \sim \log N(\mu_{O_i}, \lambda_{O_i}^2).$$

The parameters μ_{O_i} and $\lambda_{O_i}^2$ were estimated as:

$$\hat{\mu}_{O_i} = \ln(\hat{O}_i) - \hat{\lambda}_{O_i}^2 / 2 \text{ and}$$

$$\hat{\lambda}_{O_i}^2 = \ln(\widehat{CV}^2(\hat{O}_i) + 1),$$

where \hat{O}_i was the estimated value of the quantity O_i , and $\widehat{CV}(\hat{O}_i)$ was the estimated coefficient of variation of the estimate. These relationships were derived from Evans et al. (1993).

In the following, the measurement error model was used to generate the uncertainty in any estimated lower-level components (O_i) and expressed as an empirical Monte Carlo distribution. The measurement error model, conditioned on the estimated mean and CV of the lower-level components, was used to generate 100,000 observations in a Monte Carlo simulation. Estimates of stock-specific catch by fishery, area, and temporal strata, and harvest rates by fishery and area strata are simple arithmetic operations performed on the individual low level run component estimates (cf. methods below). In addition, there are various levels of pooling of individual estimate strata at different levels (i.e., over time, area, fishery, and reporting group) in the following. Under the assumption of independence (i.e., no correlation) of the individual lower-level run components, it was straightforward to combine the various Monte Carlo distributions to estimate the Monte Carlo distribution of the estimated quantity or pooled estimate by performing the arithmetic operations needed to generate the estimate or pooled estimate on each of the 100,000 realizations.

STOCK-SPECIFIC HARVEST

Estimates of stock-specific harvest were derived by applying the stock-specific composition proportions ($p_{f,y}$) to the stratum harvest C_f .

$$C_{f,y} = p_{f,y} C_f$$

The estimate ($\hat{C}_{f,y}$) and distribution of stock-specific harvest for each reporting group (y) and component fishery (f) was obtained by Monte Carlo simulation. Here, $K = 100,000$ independent realizations of the reporting group-specific harvest ($C_{f,y}^{(i)}$) drawn randomly from the joint distribution of the harvest ($C_f^{(i)}$) and stock composition ($p_{f,y}^{(i)}$) for each stratum

$$C_{f,y}^{(i)} = p_{f,y}^{(i)} C_f^{(i)}$$

$$\hat{C}_{f,y} = \text{median of the } K \text{ observations of } C_{f,y}^{(i)}.$$

Note that the 90% credibility interval (CI) was determined by 5th and 95th quantiles of the K observations of $C_{f,y}^{(i)}$. The median, 90% CI, mean, SD and CV of the stock-specific harvests were estimated directly from K observations of $C_{f,y}^{(i)}$.

Generation of stock-specific catch distributions required an estimate of the distribution of each component. The distributions of the stock compositions ($p_{f,y}^{(i)}$) were the Bayesian posterior distributions of stock proportions from the mixed stock analysis described in Templin et al. (2012). The lognormal probability distribution for the harvest ($C_f^{(i)}$) from each stratum used the harvests from Eggers et al. (2012) as the mean.

Commercial catches of salmon are reported on fish tickets and for many fisheries the numbers were based on converting weight of fish to number of fish using an estimate of average fish weight. Subsistence catches are estimated from surveys of participants. We explicitly recognized that the number of fish harvested within a temporal stratum is not counted without error;

however, an actual assessment of error is not feasible at this time. Consequently, an ad hoc CV of 5% was applied to harvests of chum salmon in WASSIP area commercial fisheries, except for harvests in the Bristol Bay commercial fisheries—in which a CV of 10% was assumed. This difference in assumed CV was due to chum salmon harvest in Bristol Bay being estimated as the portion of the catch that were chum versus sockeye salmon, rather than weighing the two species separately. Given the reporting issues that are often associated with subsistence fisheries, a larger CV of 10% was used for estimates of the subsistence catch.

STOCK-SPECIFIC HARVEST RATES

A statistical regional fishery approach was used for estimating reporting group-specific harvest rates. These harvest rates account for fish harvested in all WASSIP fisheries but exclude fish harvested outside the WASSIP area. The regional fishery consists of multiple interacting fisheries collectively exploiting multiple reporting groups. Each reporting group may occur to some extent in each of the component fisheries of the region. This approach was applied to reporting group-specific harvest estimated from WASSIP studies and to estimates of reporting group-specific terminal harvest and escapements.

Estimate and distribution of harvest rate ($\widehat{HR}_{f,y}$) for each reporting group (y) and component fishery (f) can be obtained by Monte Carlo simulation. Here, $K = 100,000$ realizations of the state of the regional fishery was determined by reporting group-specific catches ($C_{f,y}^{(i)}$), terminal harvests ($T_y^{(i)}$) and reporting group-specific escapement ($E_y^{(i)}$). Each realization of the regional fishery is drawn randomly from the lognormal probability distribution associated with the measurement error for each of the individual run components:

$$N_y^{(i)} = T_y^{(i)} + E_y^{(i)} + \sum_f C_{f,y}^{(i)}$$

$$HR_{f,y}^{(i)} = C_{f,y}^{(i)} / N_y^{(i)}$$

$$\widehat{HR}_{f,y} = \text{median of the } K \text{ observations of } HR_{f,y}^{(i)}.$$

Note that the 90% credibility interval was determined by 5th and 95th quantiles of the K observations of $HR_{f,y}^{(i)}$.

There are harvest strata in the WASSIP fisheries that were either not sampled or sampled at an inappropriate level to estimate stock composition. These include times and areas not in the sampling plan, strata where fewer than the 100 samples were collected, or strata that were dropped from further analysis by the Advisory Panel (i.e., Eastern District temporal stratum 1). The following assumptions were used to assign stock compositions to these strata, based on Advisory Panel consensus.

The WASSIP sampling report (Eggers et al. 2011) provides sample summary tables for chum salmon. Within these tables, there are a number of area strata with harvests listed as *Late Catch* in the temporal stratum column. Harvests during these periods were not included in the sampling plan and genetic stock compositions were not estimated for these strata. These *Late Catch* strata

were included in estimates of stock-specific catch and harvest rates, using the following assumptions.

1. For the Chignik Area (Eggers et al. 2011, Table 2); the *Late Catch* strata for all districts in the Chignik Area are assigned 100% Chignik/Kodiak reporting group with no uncertainty.
2. For the SEDM area (Eggers et al. 2011, Table 4), the *Late Catch* strata are assigned 100% to the South Peninsula reporting group with no uncertainty.
3. For the South Peninsula post-June Fishery (Eggers et al. 2011, Table 8), the *Late Catch* strata are assigned 100% to the South Peninsula reporting group with no uncertainty.
4. For the Northern District (Eggers et al. 2011, Table 10), the *Late Catch* strata in all areas are assigned 100% to the North Peninsula reporting group with no uncertainty.

Some strata that were part of the WASSIP sampling plan had no samples collected or fewer than 100 samples (the minimum sample size for which stock composition estimates were produced). Where possible, available stock composition estimates from adjacent strata or years were used to inform the stock composition for the strata with no or too few samples. Table 3 lists these strata and the strata that provided proxy stock composition estimates.

RESULTS

TOTAL RUN

Stock-specific estimates of escapement and associated uncertainties varied greatly among reporting groups (Tables 4–6). Subsistence harvest estimates by Areas varied greatly (Appendix A), while commercial harvests within the WASSIP area not documented by Eggers et al. (2011) were relatively small (Appendix B).

HARVEST BY TEMPORAL AREA STRATA

Harvests by temporal area strata are in Appendix C.

HARVEST AND HARVEST RATES BY FISHERY

Sampling results and proportional stock composition estimates for each fishery can be found in the WASSIP final report for chum salmon stock compositions (Templin et al. 2012). Below we broadly summarize results for harvest and harvest rates by fishery, and report and note harvest rates in excess of 0.5%.

Westward Region

Chignik Area Fishery

Eastern District

The majority of the harvest in the Eastern District was from the East of Kodiak reporting group during 2007 and from the Chignik/Kodiak reporting group in 2009; however, since no samples were collected during 2008, harvest estimates from 2008 were approximated by stock compositions from the other two years (see Table 3, 7–9; Figures 3 and 40; Appendices C1–C6). In 2007, the Eastern District harvest was 7,851 fish with the majority of the harvest from the East of Kodiak reporting group at 3,200 fish, followed by the Chignik/Kodiak reporting group with 1,631 fish, the Asia reporting group with 799 fish, and the South Peninsula reporting group with 759 fish. No reporting groups had harvest rates above 0.5%. In 2008, a total of 58,925 fish were

harvested with 50,986 fish from the Chignik/Kodiak reporting group and 4,990 fish from the Upper Yukon River reporting group. The only harvest rate that exceeded 0.5% was on the Chignik/Kodiak reporting group with a harvest rate of 2.6%. In 2009, the total harvest was 59,800 fish with 57,416 fish harvested from the Chignik/Kodiak reporting group that resulted in a harvest rate of 2.2%. All other reporting groups had relatively small harvests and harvest rates of 0.0%

Central District

The largest harvest in the Central District was from the Chignik/Kodiak reporting group during 2007 through 2009 (Tables 10–12; Figures 4 and 41; Appendices C7–C12). In 2007, the total harvest was 19,595 fish with 10,622 fish from the Chignik/Kodiak reporting group. The East of Kodiak reporting group represented 3,468 fish within the Central District, followed by the Asia reporting group with 2,616 fish, and the South Peninsula reporting group with 2,325 fish. Other reporting group harvests were relatively small and no reporting groups had harvest rates above 0.5%. In 2008, the Central District harvest was 40,130 fish, with 35,877 fish harvested from the Chignik/Kodiak reporting group resulting in a harvest rate on that reporting group of 1.8%. The Asia reporting group contributed 2,064 fish to the harvest, but all other reporting groups had relatively small harvests and harvest rates below 0.5%. In 2009, the total harvest was 62,149 fish with 53,772 fish from the Chignik/Kodiak reporting group resulting in a harvest rate of 2.0%. The Asia reporting group harvest was 4,803 fish but all other reporting groups had harvests that were relatively small and harvest rates of 0%.

Chignik Bay District

The harvest in the Chignik Bay district was entirely from the Chignik/Kodiak reporting group in all years (Tables 13–15; Figures 5 and 42, Appendices C13–C15). The harvest was 3,828 fish in 2007, 13,453 fish in 2008, and 14,552 fish in 2009. The only harvest rates that were above 0.5% were on the Chignik/Kodiak reporting group with 0.7% in 2008 and 0.6% in 2009.

Western and Perryville Districts

The largest harvest in the Western and Perryville districts was from Chignik/Kodiak reporting group from 2007 through 2009, but the other stocks were present in the harvest and varied greatly among years (Tables 16–18; Figures 6 and 43; Appendices C16–C21). In 2007, the total harvest was 47,278 fish, with 30,807 fish coming from the Chignik/Kodiak reporting group. Harvest from the East of Kodiak reporting group was 8,229 fish followed by the Asia reporting group with 6,987 fish. Harvests from other reporting groups were relatively small. The only reporting group with a measurable harvest rate was the Chignik/Kodiak reporting group at 1.2%. In 2008, a total of 96,817 fish were harvested in the Western and Perryville districts, with 69,521 fish coming from the Chignik/Kodiak reporting group. The Asia reporting group contributed 14,536 fish; all other reporting groups had a relatively small harvest. The harvest rate was 3.5% on the Chignik/Kodiak reporting group and was less than 0.5% on all other reporting groups. In 2009, the total harvest was 118,798 fish, with 55,812 fish coming from the Chignik/Kodiak reporting group. The harvest of the CWAK reporting group was 30,437 fish; there were 19,973 fish from the Asia reporting group, and all other reporting groups had relatively small harvests. The harvest rate on the Chignik/Kodiak reporting group was 2.1% and was 0.5% on the CWAK reporting group with no other reporting groups above 0.5%.

Southeastern District Mainland Fishery

The fishery was closed in the SEDM during 2007 until late in the season, so all fish were assumed to be from the South Peninsula reporting group. In 2008 and 2009, the South Peninsula reporting group contributed the largest harvest to the SEDM fishery, followed by the Chignik/Kodiak reporting group (Tables 19–21; Figures 7 and 44; Appendices C22–C26). In 2007, the harvest was 40,649 fish which resulted in a 1.3% harvest rate on the South Peninsula reporting group. In 2008, the total harvest was 72,263 fish with 56,632 fish from the South Peninsula reporting group and 14,406 fish from the Chignik/Kodiak reporting group. The harvests from other reporting groups were relatively small. Harvest rates on the South Peninsula and Chignik/Kodiak reporting group were 2.5% in 2007 and 0.7% in 2008. In 2009, the total SEDM harvest was 150,921 fish with 117,426 fish from the South Peninsula reporting group and 30,218 fish from the Chignik/Kodiak reporting group. The harvests from other reporting groups were relatively small. The harvest rate on the South Peninsula reporting group was 4.3%, while the rate on the Chignik/Kodiak reporting group was 1.1%. Harvest rates were below 0.5% for all other reporting groups.

South Alaska Peninsula June Fishery

Shumagin Islands Section

There was a wide variety of contributing reporting groups in the Shumagin Islands Section of the June fishery with the CWAK reporting group representing the largest harvest from 2007 through 2009 (Tables 22–24; Figures 8 and 45; Appendices C27–C40). In 2007, the total harvest was 144,205 fish, with 63,610 fish from the CWAK reporting group followed by 37,650 fish from the Asia reporting group. The harvest of the East of Kodiak reporting group was 32,613 fish and harvest from all other reporting groups was relatively small. The only reporting group with a harvest rate above 0.5% was the CWAK reporting group (0.8%). In 2008, the total harvest was 126,483 fish with 48,814 fish from the CWAK reporting group. The harvest of the Asia reporting group was 47,139 fish, and the harvest of the East of Kodiak reporting group was 11,789 fish. The harvest from all other reporting groups was relatively small. The only reporting group with a harvest rate above 0.5% was the CWAK reporting group with 0.8%. In 2009, the total harvest was 495,992 fish, with 282,690 fish from the CWAK reporting group, 147,058 fish from the Asia reporting group, 25,493 fish from the East of Kodiak reporting group. The harvest of other reporting groups was relatively small. The harvest rate of CWAK fish was 4.6%; despite a relatively small harvest (18,900 fish), the harvest rate on the Northwestern District was 3.9%. The Chignik/Kodiak reporting group had a harvest rate of 0.5%; all other reporting groups had harvest rates less than 0.5%.

Dolgoi Island Area

The harvests in the Dolgoi Island area were relatively low, and since no samples were analyzed from this area, stock compositions were approximated from the Unimak District samples for use in harvest rate calculations. The largest estimated contributing reporting group was the CWAK reporting group in all three years, but no reporting groups had harvest rates that exceeded 0.5% in any year (Tables 25–27; Figures 9 and 46; Appendices C41–C43). In 2007, the harvest was 3,757 fish with 2,899 fish from the CWAK reporting group. In 2008, the total harvest was 3,668 fish with the CWAK reporting group contributing 2,190 fish and the Asia reporting group contributing 856 fish. In 2009, the harvest was 6,248 fish with 4,249 fish from the CWAK

reporting group and 1,035 fish from the Asia reporting group. All other harvests in the three years were relatively small.

Ikatan Area

The reporting group with the largest harvest in the Ikatan area of the June fishery was the CWAK reporting group from 2007 to 2009 (Tables 28–30; Figures 10 and 47; Appendices C44–C58). In 2007, the total harvest was 43,806 fish, with 30,389 fish from the CWAK reporting group. The Asia reporting group contributed 7,663 fish to the harvest and the East of Kodiak reporting group contributed 3,532 fish. None of the reporting groups had harvest rates above 0.5%. In 2008, the total harvest was 35,444 fish with 17,870 fish from the CWAK reporting group and 12,337 fish from the Asia reporting group. Harvests from other reporting groups were relatively small. There were no reporting groups with harvest rates above 0.5%. In 2009, the total harvest was 75,099 fish with 54,198 fish from the CWAK reporting group and 11,388 fish from the Asia reporting group. The harvest rate on the CWAK reporting group was 0.9% and while harvests from the other reporting groups were relatively small; a harvest of 4,147 fish from the Northwestern District resulted in a harvest rate of 0.9% on that reporting group.

Unimak District

While all reporting groups were present in all three years in the Unimak District June fishery harvests, the CWAK reporting group was the largest contributor (Tables 31–33; Figures 11 and 48; Appendices C59–C73). In 2007, the total harvest was 105,771 fish with 81,637 fish from the CWAK reporting group. The Asia reporting group contributed 15,052 fish to the harvest and all other reporting groups had relatively small harvests. The fishery had a 1.0% harvest rate on the CWAK reporting group, but no other reporting groups had harvest rates above 0.5%. In 2008, the total harvest was 245,337 fish with 146,392 fish from the CWAK reporting group. The harvests from the other reporting groups were relatively small. The harvest rate on the CWAK reporting group was 2.4%. Despite smaller harvests, Northwestern District reporting group (10,336 fish) had a harvest rate of 0.8% and the Upper Yukon River reporting group (4,304 fish) had a harvest rate of 0.5%. In 2009, the Unimak District harvest was 119,436 fish with 81,211 fish from the CWAK reporting group and 19,796 fish from the Asia reporting group. The harvests from the other reporting groups were relatively small. The harvest rate on the CWAK reporting group was 1.3% and while harvests were relatively small on the Northwestern District reporting group (7,569 fish), the harvest rate was 1.6% on that reporting group.

South Alaska Peninsula Post-June Fishery

Shumagin Islands Section

All reporting groups were present in all three years in the Shumagin Islands post-June fishery; however, the South Peninsula reporting group was the largest contributor in all years (Tables 34–36; Figures 12 and 49; Appendices C74–C85). In 2007, the Shumagin Islands post-June harvest was 167,211 fish with 58,699 fish from the South Peninsula reporting group. The Asia reporting group contributed 38,713 fish to the harvest; the Chignik/Kodiak reporting group contributed 36,063 fish to the harvest. Harvests from other reporting groups were relatively small. Harvest rates were 1.8% for the South Peninsula reporting group, 1.5% for the Chignik/Kodiak reporting group and 0.5% for the Northwestern District reporting group. No other reporting groups had harvest rates greater than 0.5%. In 2008, the harvest was 138,413 fish, with 40,709 fish from the South Peninsula reporting group. The Chignik/Kodiak reporting group contributed 34,235 fish to

the harvest, the Asia reporting group contributed 33,159 fish, and the East of Kodiak reporting group contributed 17,924 fish. Harvests from the other reporting groups were relatively small. The harvest rate of the South Peninsula reporting group was 1.8%, for the Chignik/Kodiak reporting group it was 1.7%, and for the Northwestern District reporting group it was 0.5%. No other reporting groups had harvest rates greater than 0.5%. In 2009, the total harvest was 223,809 fish with 142,448 fish from the South Peninsula reporting group. There were 30,799 fish from the Chignik/Kodiak reporting group, 16,856 fish from the CWAK reporting group, and 16,473 fish from the Asia reporting group. Harvests from other reporting groups were relatively small. The harvest rate on the South Peninsula reporting group was 5.3%; it was 1.4% on the Northwestern District reporting group, 1.2% on the Chignik/Kodiak reporting group, and 0.6% on the Northern District reporting group.

Dolgoi Island Area

The South Peninsula reporting group was dominant in all three years in the Dolgoi Island area post-June fishery (Tables 37–39; Figures 13 and 50; Appendices C86–C91). In 2007, the total harvest was 128,562 fish with 109,655 fish from the South Peninsula reporting group and 12,688 fish from the Chignik/Kodiak reporting group. The harvest rate on the South Peninsula reporting group was 3.4% and the harvest rate on the Chignik/Kodiak reporting group was 0.5%. Harvests and harvest rates from all other reporting groups were relatively small. In 2008, the total harvest was 96,600 fish with 87,569 fish from the South Peninsula reporting group which resulted in a harvest rate of 3.8%. Harvests and harvest rates from all other reporting groups were relatively small. In 2009, the total harvest was 423,007 fish with 412,805 fish from the South Peninsula reporting group which resulted in a harvest rate of 15.3%. Harvests and harvest rates from all other reporting groups were relatively small.

Ikatan Area

The South Peninsula reporting group was dominant in all three years in the Ikatan area post-June fishery (Tables 40–42; Figures 14 and 51; Appendices C92–C97). In 2007, the total harvest was 37,195 fish with 33,802 fish from the South Peninsula reporting group which resulted in a harvest rate of 1.1%. Harvests and harvest rates from all other reporting groups were relatively small. In 2008, the total harvest was 56,727 fish with 49,360 fish from the South Peninsula reporting group which resulted in a harvest rate of 2.1%. Harvests and harvest rates from all other reporting groups were relatively small. In 2009, the total harvest was 178,336 fish with 169,277 fish from the South Peninsula reporting group, resulting in a harvest rate of 6.2%. While the harvest from the Northwestern District reporting group was relatively small (2,785 fish), the harvest rate was 0.6%. Harvests and harvest rates from all other reporting groups were relatively small.

North Alaska Peninsula Fishery

Bear River Section

Harvests in the Bear River Section were dominated by the Northern District reporting group in all three years (Tables 43–45; Figures 15 and 52; Appendices C98–C102). In 2007, the total harvest was 29,508 fish with 29,102 fish from the Northern District reporting group resulting in a harvest rate of 4.0%. In 2008, the total harvest was 3,201 fish, all of which were from the Northern District reporting group (harvest rate less than 0.5%). In 2009, the total harvest was 18,189 fish, of which 17,115 fish were from the Northern District reporting group, resulting in a

harvest rate of 2.1%. Harvests and harvest rates were relatively small from all other reporting groups.

Three Hills and Ilnik Sections

Most harvests in the Three Hills and Ilnik sections were from the Northern District reporting group for all three years (Tables 46–48; Figures 16 and 53; Appendices C103–C108). In 2007, a total of 38,752 fish were harvested, with 28,136 fish from the Northern District reporting group and 8,036 fish from the CWAK reporting group. The harvest rate on the Northern District reporting group was 3.8%; harvests and harvest rates from all other reporting groups were relatively small. In 2008, the total harvest was 6,537 fish, with 5,184 fish from the Northern District reporting group and 1,045 fish from the CWAK reporting group. The harvests from the other reporting groups were relatively small, and the Northern District harvest rate of 0.5% was the only non-zero harvest rate. In 2009, the total harvest was 15,081 fish with 14,823 fish from the Northern District reporting group resulting in a harvest rate of 1.8% on the Northern District reporting group. Harvests and harvest rates from the other reporting groups were relatively small.

Central Region

Bristol Bay Area Fishery

Eastside Districts (Ugashik, Egegik, and Naknek-Kvichak)

Harvests in the Eastside Bristol Bay districts were dominated in all years by the CWAK reporting group with the consistent presence of CWAK and Northern District reporting groups (Tables 49–51; Figures 17 and 54, Appendices C109–C123). In 2007, the Eastside district's harvest was 783,943 fish, consisting of 718,495 CWAK fish and 65,448 Northern District fish. The Eastside District's harvest rate on the Northern District reporting group was 8.8% and CWAK's was 8.5%. The Eastside Districts harvest in 2008 was 465,453 fish, consisting of 438,181 CWAK fish and 27,262 Northern District fish. The harvest rate on the Northern District reporting group was 2.8% and CWAK had a harvest rate of 7.3%. The harvest in 2009 was similar to 2008 with a harvest of 438,705 fish, consisting of 419,960 CWAK fish and 18,745 Northern District fish. The harvest rate on the CWAK reporting group was 6.8%, the harvest rate on the Northern District reporting group was 2.2%, and there was a 0% harvest rate on all other reporting groups.

Nushagak District

Harvests in the Nushagak District were dominated in all years by the CWAK reporting group (Tables 52–54; Figures 18 and 55; Appendices C124–C138). In 2007, the Nushagak District harvest was 953,282 fish, which consisted of 100% CWAK fish. The Nushagak District harvest rate on the CWAK reporting group was 11.3% with a 0% harvest rate on all other reporting groups. The Nushagak District harvest in 2008 was 492,330 fish consisting of 492,197 CWAK fish (8.2% harvest rate). The harvest rate on all other reporting groups was virtually 0%. The Nushagak District harvest in 2009 was 745,083 fish consisting of 100% CWAK fish. The harvest rate on the CWAK reporting group was 12.2% with a 0% harvest rate on all other reporting groups.

Togiak District

Harvests in the Togiak District were dominated in all years by the CWAK reporting group (Tables 55–57; Figures 19 and 56; Appendices C139–C153). In 2007, the Togiak District harvest

was 202,486 fish which consisted of 202,259 CWAK fish and 227 East of Kodiak fish. The Togiak District harvest rate on the CWAK reporting group was 2.4% and the harvest rate on all other reporting groups was virtually 0%. The Togiak District harvest in 2008 was 301,967 CWAK fish. The Togiak District harvest rate on the CWAK reporting group was 5.0% with a 0% harvest rate on all other reporting groups. The Togiak District harvest in 2009 was 141,371 fish which consisted of 141,352 CWAK fish and 19 East of Kodiak fish. The harvest rate on the CWAK reporting group was 2.3% with a harvest rate of 0% on all other reporting groups.

Arctic-Yukon-Kuskokwim Region

Kuskokwim Area Fishery

District 5

Harvests in District 5 were dominated in all years by the CWAK reporting group (Tables 58–60; Figures 20 and 57; Appendices C154–C162). In 2007, 2008, and 2009, the harvests were 7,851 fish (2007); 10,408 fish (2008); and 16,985 fish (2009), and essentially all harvest was attributed to CWAK reporting group. No harvest rates were reported above 0.5%.

District 4

Harvests in District 4 were dominated in all years by the CWAK reporting group (Tables 61–63; Figures 21 and 58; Appendices C163–C171). In 2007, 2008, and 2009, the harvests were 62,232 fish (2007); 57,033 fish (2008); and 91,158 fish (2009), and essentially all harvest was attributed to CWAK reporting group. Harvest rates above 0.5% were reported for CWAK reporting group in 2007 (0.7%), 2008 (1.0%) and 2009 (1.5%).

District 1

Harvests in District 1 were dominated in all years by the CWAK reporting group (Tables 64–66; Figures 22 and 59; Appendices C172–C180). In 2007, 2008, and 2009, the harvests were 14,027 fish (2007); 30,516 fish (2008); and 76,790 fish (2009), and essentially all harvest was attributed to CWAK reporting group. Harvest rates above 0.5% were reported for CWAK reporting group in 2009 (1.3%).

Mekoryuk Subsistence

Harvests in Mekoryuk were dominated in all years by the CWAK reporting group (Tables 67–69; Figures 23 and 60; Appendices C181–C183). In 2007, 2008, and 2009, the harvests were approximately 6,000 fish and essentially all harvest was attributed to CWAK reporting group. Harvest rate did not exceed 0.5% in any year.

Toksook Bay Subsistence

Harvests in Toksook Bay were dominated in all years by the CWAK reporting group (Tables 70–72; Figures 24 and 61; Appendices C184–C186). In 2007, 2008, and 2009, the harvests were approximately 2,000 fish and essentially all harvest was attributed to CWAK reporting group. Harvest rate did not exceed 0.5% in any year.

Yukon Area Fishery

District 1 Commercial marine excluding Black River (summer)

Harvests in the marine portion of District 1 during the summer season (excluding Black River) were dominated in all years by the CWAK reporting group (Tables 73–75; Figures 25 and 62;

Appendices C187–C194). The Upper Yukon reporting group contributed a smaller but substantial component of the harvest. In 2007, the harvest was 11,782 fish which consisted primarily of fish from CWAK (11,030) and Upper Yukon River (744). In 2008, the harvest was 4,612 fish which consisted primarily of fish from CWAK (3,804) and Upper Yukon River (808). In 2009, the harvest was 6,840 fish, which consisted primarily of fish from CWAK (5,077) and Upper Yukon River (1,763). The harvest rates were below 0.5% for all reporting groups in all years.

District 1 Commercial Black River only (summer)

Harvests in the Black River only of District 1 during the summer season were dominated in all years by the CWAK reporting group (Tables 76–78; Figures 26 and 63; Appendices C195–C201). The Upper Yukon reporting group contributed a smaller but substantial component of the harvest. In 2007, the harvest was 3,724 fish which consisted primarily of fish from CWAK (3,594) and Upper Yukon River (130). In 2008, the harvest was 1,200 fish which consisted primarily of fish from CWAK (1,002) and Upper Yukon River (198). In 2009, the harvest was 730 fish, which consisted primarily of fish from CWAK (466) and Upper Yukon River (264). The harvest rates were below 0.5% for all reporting groups in all years.

Coastal District (Hooper Bay) Subsistence

Harvests in Hooper Bay were dominated in all years by the CWAK reporting group (Tables 79–81; Figures 27 and 64; Appendices C202–C204). In 2007, 2008, and 2009, the harvests were 12,234 fish (2007), 12,007 fish (2008), 9,200 fish (2009), and essentially all harvest was attributed to CWAK reporting group. Harvest rate did not exceed 0.5% in any year.

District 1 (Scammon Bay) Subsistence

Harvests in Scammon Bay were dominated in all years by the CWAK reporting group (Tables 82–84; Figures 28 and 65; Appendices C205–C207). The Upper Yukon River reporting group contributed a smaller but substantial component of the harvest. In 2007, the harvest was 3,887 fish which consisted primarily of fish from CWAK (3,685) and Upper Yukon River (202). In 2008, the harvest was 6,117 fish which consisted primarily of fish from CWAK (5,744) and Upper Yukon River (373). In 2009, the harvest was 3,600 fish, which consisted primarily of fish from CWAK (3,472) and Upper Yukon River (128). The harvest rates were below 0.5% for all reporting groups in all years.

District 1 Commercial marine excluding Black River (fall)

Harvests in the marine portion of District 1 during the fall season (excluding Black River) were dominated in all years by the Upper Yukon River reporting group (Tables 85–87; Figures 29 and 66; Appendices C208–C215). The CWAK reporting group contributed smaller but substantial components of the harvest. Kotzebue Sound and Asia fish, while present, contributed approximately 1,000 fish or less to the harvest. In 2007, the harvest was 38,852 fish which consisted primarily of fish from Upper Yukon River (36,848) and CWAK (1,257). The only harvest rate observed was for the Upper Yukon River reporting group (3.3%). In 2008, the harvest was 67,704 fish which consisted primarily of fish from Upper Yukon (56,572) and CWAK (9,738). Harvest rates above 0.5% were observed only for the Upper Yukon River reporting group (6.3%). In 2009, the harvest was 11,911 fish, which consisted primarily of fish from Upper Yukon River (8,935) and CWAK (2,908). Harvest rates above 0.5% were observed only for the Upper Yukon River reporting group (1.6%).

District 1 Commercial Black River only (fall)

There were 22 fish harvested in the Black River only section of District 1 during the fall season of 2008 (Table 88; Figures 30 and 67; Appendix C216). These fish were allocated 100% to Upper Yukon River (Table 3).

Norton Sound-Port Clarence Area Fishery

Subdistrict 6 (Unalakleet) Subsistence and Commercial

The vast majority of the harvests in Unalakleet (Subdistrict 6) were commercial and dominated in all years by the CWAK reporting group (Tables 89–91; Figures 31 and 68; Appendices C217–C228). The Kotzebue Sound and Upper Yukon River reporting groups contributed smaller components of the harvest. In 2007, the harvest was 13,882 fish which consisted primarily of fish from CWAK reporting group. In 2008, the harvest was 20,348 fish which consisted primarily of fish from CWAK (19,869) and Kotzebue Sound (479) reporting groups. In 2009, the harvest was 22,147 fish, which consisted of fish from CWAK (22,040) and Upper Yukon River (107) reporting groups. The harvest rates were below 0.5% for all reporting groups in all years.

Subdistrict 5 (Shaktoolik) Subsistence and Commercial

The vast majority of the harvests in Shaktoolik (Subdistrict 5) was commercial and dominated in all years by the CWAK reporting group (Tables 92–94; Figures 32 and 69; Appendices C229–C240). The Kotzebue Sound reporting group contributed a smaller component of the harvest. In 2007, the harvest was 6,541 fish which consisted primarily of fish from CWAK (5,962) and Kotzebue Sound (579). In 2008, the harvest was 6,242 fish which consisted primarily of fish from CWAK (6,004) and Kotzebue Sound (232). In 2009, the harvest was 11,341 fish, which consisted primarily of fish from CWAK reporting group. The harvest rates were below 0.5% for all reporting groups in all years.

Subdistrict 3 (Moses Point) Subsistence and Commercial

Commercial and subsistence fisheries harvested approximately equivalent harvests in Moses Point (Subdistrict 2) and were dominated in all years by the CWAK reporting group (Tables 95–97; Figures 33 and 70; Appendices C241–C246). The Kotzebue Sound reporting group contributed a smaller component of the harvest. In 2007, the harvest was 6,901 fish which consisted primarily of fish from CWAK (6,653) and Kotzebue Sound (248). In 2008, the harvest was 1,588 fish which were all attributed to CWAK reporting group. In 2009, the harvest was 1,197 fish, which consisted primarily of fish from CWAK (1,166) and Kotzebue Sound (30). The harvest rates were below 0.5% for all reporting groups in all years.

Subdistrict 2 (Golovin Bay) Subsistence and Commercial

Harvests in Golovin Bay (Subdistrict 2) were dominated in all years by the CWAK reporting group (Tables 98–100; Figures 34 and 71; Appendices C247–C251). The harvest was primarily subsistence in 2007 and 2009. Harvests in 2008 were smaller and represented by both commercial and subsistence fisheries. In 2007, 2008 and 2009 the harvests were 4,217 fish (2007), 973 fish (2008), and 1,781 fish (2009), and all harvest was attributed to CWAK reporting group. The harvest rates were below 0.5% for all reporting groups in all years.

Stebbins Subsistence

Harvests in Stebbins were dominated in all years by the CWAK reporting group, though small numbers of Upper Yukon River stocks may be present (Tables 101–103; Figures 35 and 72; Appendices C252–C254). In 2007, 2008 and 2009 the harvests were 4,980 fish (2007), 4,116 fish (2008), and 1,461 fish (2009), and essentially all harvest was attributed to CWAK reporting group. The harvest rates were below 0.5% for all reporting groups in all years.

St. Michael Subsistence

Harvests in St. Michael were dominated in all years by the CWAK reporting group (Tables 104–106; Figures 36 and 73; Appendices C255–C257). In 2007, 2008 and 2009 the harvests were 2,119 fish (2007), 2,845 fish (2008), and 921 fish (2009), and all harvest was attributed to CWAK reporting group. The harvest rates were below 0.5% for all reporting groups in all years.

Subdistrict 1 (Nome) Subsistence

Harvests in Nome were dominated in all years by the CWAK reporting group (Tables 107–109; Figures 37 and 74; Appendices C258–C260). In 2007, 2008 and 2009 the harvests were 2,938 fish (2007), 739 fish (2008), and 387 fish (2009), and essentially all harvest was attributed to CWAK reporting group, though some small numbers of Kotzebue Sound fish may be present. The harvest rates were below 0.5% for all reporting groups in all years.

Port Clarence District Subsistence and Commercial

Harvests in Port Clarence District were dominated in all years by the CWAK reporting group (Tables 110–112; Figure 38–75; Appendices C261–263). The Kotzebue Sound reporting group contributed a smaller of the harvest. In 2007, the harvest was 7,637 fish which consisted primarily of fish from CWAK (7,125) and Kotzebue Sound (512). In 2008, the harvest was 2,773 fish which consisted primarily of fish from CWAK (2,587) and Kotzebue Sound (186). In 2009, the harvest was 3,060 fish, which consisted primarily of fish from CWAK (2,854) and Kotzebue Sound (206). The harvest rates were below 0.5% for all reporting groups in all years.

Kotzebue Area Fishery

Kotzebue Sound District Commercial

Harvests in Kotzebue Sound District were dominated in all years by the Kotzebue Sound reporting group (Tables 113–115; Figures 39 and 76; Appendices C264–C266). In 2007, 2008 and 2009 the harvests were 147,087 fish (2007), 190,550 fish (2008), 187,562 fish (2009), and all harvest was attributed to Kotzebue Sound reporting group. Harvest rate was 18.0% in 2007, 17.0% in 2008, and 25.0% in 2009.

Harvest and Harvest Rates by Area Strata

Harvest and harvest rates by area strata where temporal strata are rolled together within years are in Tables 7–115.

Harvest and Harvest Rates by Fishery

Harvest and harvest rate by fishery, where area strata are rolled into fishery strata, are in Tables 116–148.

Harvest and Harvest Rates Across all Fisheries

Harvest and harvest rates by reporting group across all fisheries are in Tables 149–151.

Harvest and Harvest Rates by Reporting Group

Harvest and harvest rate by reporting group for area strata are in Appendices C1–C266 . Harvest and harvest rates by reporting group for fisheries are in Tables 152–176 and Figures 77–83. Sampling results and proportional stock composition estimates for each fishery can be found in the WASSIP final report for chum salmon stock compositions (Templin et al. 2012). Below we present the results for harvest rates by reporting group.

Asia Reporting Group

Harvest rates were not calculated for Asia reporting group because total runs were not estimated (Tables 152–154). The highest harvests of Asia reporting group were made in South Alaska Peninsula June fishery (60,728–178,598 fish), followed by the South Alaska Peninsula post-June (17,544–40,686 fish), and Chignik Area fishery (10,271–25,635 fish). No other fishery harvested more than 1,000 fish from Asia reporting group in any year.

Kotzebue Reporting Group

The highest harvest rates for Kotzebue reporting group were in the Kotzebue Sound fishery (Tables 155–157; Figure 77; Appendices D4–D6). Total harvest rates ranged from 17.6% to 25.7% (Tables 149–151). Harvest rates were below 1% in all other fisheries.

Coastal Western Alaska (CWAK) Reporting Group

The highest harvest rates for Coastal Western Alaska reporting group were in Bristol Bay Area fisheries (20.5% to 22.3%; Tables 158–160; Figure 78; Appendices D7–D9). Total harvest rates ranged from 26.7% to 33.2% (Tables 149–151). The South Alaska Peninsula June fishery was the only other fishery with harvest rates above 5% in any year (2.1% to 6.9%).

Upper Yukon Reporting Group

The highest harvest rates for Upper Yukon reporting group were in the Yukon Area fall fishery (1.6% to 6.3%; Tables 161–163; Figure 79; Appendices D10–D12). Total harvest rates were low and ranged from 2.3% to 7.7% (Tables 149–151). Harvest rates were below 1% in all other fisheries.

Northern District, Alaska Peninsula Reporting Group

The highest harvest rates for Northern District Alaska Peninsula reporting group were in the Bristol Bay Area (2.2% to 8.8%) and Northern District (0.9% to 7.8%) fisheries (Tables 164–166; Figure 80; Appendices D13–D15). Total harvest rates were ranged from 4.6% to 17.3% (Tables 149–151). Harvest rates were below 1% in all other fisheries.

Northwestern District, Alaska Peninsula Reporting Group

The highest harvest rates for Northwestern District Alaska Peninsula reporting group were in the South Alaska Peninsula June (0.2% to 6.5%) and post-June (0.5% to 2.0%) fisheries (Tables 167–169; Figure 81; Appendices D16–D18). Total harvest rates ranged from 0.8% to 9.2% (Tables 149–151). Harvest rates were below 1% in all other fisheries.

South Alaska Peninsula Reporting Group

The highest harvest rates for South Alaska Peninsula reporting group were in the South Alaska Peninsula post-June (6.3% to 26.8%) and the SEDM (1.3% to 4.3%) fisheries (Tables 170–172;

Figure 82; Appendices D19–D21). Total harvest rates ranged from 7.8% to 31.7% (Tables 149–151). Harvest rates were below 1% in all other fisheries.

Chignik/Kodiak Reporting Group

The highest harvest rates for Chignik/Kodiak reporting group were in the Chignik Area fishery (1.9% to 8.6%; Tables 173–175; Figure 83; Appendices D22–D24). Total harvest rates were ranged from 4.1% to 12.0% (Tables 149–151). Harvest rates above 1% were also found in the South Peninsula post-June (1.6% to 2.0%) and the SEDM (0.0% to 1.1%) fisheries. Harvest rates were below 1% in all other fisheries.

East of Kodiak Reporting Group

Harvest rates were not calculated for East of Kodiak reporting group because total runs were not estimated (Table 176–178; Appendices D25–D27). The highest harvests of East of Kodiak reporting group were made in South Alaska Peninsula June fishery (27,574–42,152 fish), followed by the South Alaska Peninsula post-June (5,334–18,648 fish), and Chignik Area fishery (5,341–14,687 fish). No other fishery harvested more than 2,500 fish from East of Kodiak reporting group in any year.

DISCUSSION

HARVEST RATES

Most genetic stock identification studies for salmon in Alaska limit reporting to calculated stock proportions in the sampled fishery strata. The extension of estimated genetic stock proportions in WASSIP fisheries to stock-specific harvest rates represents a broader application of genetic stock identification than first envisioned for the WASSIP study. Estimation of harvest rates provides a fundamentally different view of stock-specific fishery impacts, but requires detailed assessments of harvest and escapement for WASSIP fishery stocks, with explicit statements of uncertainties associated with each. However, when considering harvest rates, it is important to recognize that they are likely overestimates of true harvest rates. This is because our estimates of stock-specific escapement are almost certainly biased low (see Eggers et al. 2012) and we are also unable to account for harvest of WASSIP stocks outside of the WASSIP area. Each of these contributes to estimates of stock-specific total runs (denominator in harvest rate calculations) that are biased low, which results in harvest rate estimates which are biased high.

SUMMARY STATISTICS

Significant Digits

When estimating stock-specific harvest using mixed-stock analysis it is important to consider uncertainty in the estimate. This uncertainty is driven by uncertainty in the underlying components: stock proportions and harvest numbers. In some situations, significant figures (the digits which carry meaning contributing to precision) are applied to avoid overrepresenting the precision of a measurement. After some discussion with the Technical Committee and a search of the literature, it became clear that no standard method was available to determine the number of significant figures for estimates of this kind given the wide range of uncertainty associated with component variables. Instead, in addition to the best point estimate, we provided credibility intervals, CVs, and/or SDs to provide guidance on uncertainty associated with each estimate. We

recommend using the width of the 90% credibility interval relative to the magnitude of the point estimate as a good guide to certainty of the estimate.

Median

Misallocation to reporting groups that are either absent or at low proportions within mixture samples (i.e., catch samples) occurs with mixed stock analysis when the discriminant methods do not produce perfect identifiability (Pella and Milner 1987; Xu et al. 1994; Pella and Masuda 2001). Small misallocations for catch strata that represent large harvests can result in large numbers of misallocated fish (large bias). Large numbers of misallocated fish to reporting groups with small total returns across many strata, as occurs in WASSIP, can result in an erroneously high mean harvest rate. Estimating harvest throughout WASSIP fisheries for reporting groups with small total returns was of specific interest to the Advisory Panel.

The reason that this bias exists is that allocations to reporting groups cannot be less than zero. Therefore posterior distributions for stocks that are not present in the sample are necessarily skewed to the right, with most values accumulated near zero. The less genetic differentiation among reporting groups, the more and larger the misallocations will be. These misallocations were observed in tests of the baseline where samples from one reporting group (known-origin samples) were used as a mixture and allocated among all reporting groups. Under the standards of this project, means of up to a 10% misallocation into reporting groups that are not represented in the mixture were deemed acceptable (Dann et al. 2012b).

The posterior distribution of these misallocations was highly skewed and the mean was much more sensitive to this skewness than the median because the mean is heavily influenced by extreme values (Habicht et al. 2012b). Pella and Masuda (2001) discuss using other measures of central tendency for stock proportions and proposed alternatives such as the marginal modes or medians. They showed the mode reduced these types of biases. We found that the mode produced estimates of zero when the reporting group was present at low (1%) frequencies in the mixture (Jasper et al. 2012). Missing contributions of low, but present stocks was also important to the Advisory Panel. As a result, the Advisory Panel, in consultation with the Technical Committee, chose the median as the appropriate measure that would best describe the point estimate for harvest and harvest rate for the objectives of WASSIP.

Adjusted Median

Although marginal medians are less biased than the means, especially for small proportions, they do not behave as well as the mean when performing secondary statistics, such as adding up component values to derive total values. The mean is therefore also provided in the base appendices so that researchers can use these data for secondary calculations. In order for the marginal medians to sum to the total harvest, we adjusted the medians. The adjustments are provided in the footnotes on each table and generally varied from 1.00 to 1.03. In other words, the medians were adjusted upward by between 0% and 3% across reporting groups to come up with the adjusted medians. It is important to note that the adjusted median is used only for reporting purposes and was not used in the calculation of any other statistic, such as harvest rate.

$P = 0$

One measure the Advisory Panel suggested was a statistic that would inform the reader regarding the likelihood that an allocation was actually zero. The Technical Committee advanced the idea of providing the proportion of the posterior distribution estimates that fell below 0.0000005 for

proportion estimates (which would round to 1 in 1 million fish) and below 1 fish for harvest estimates. This statistic was termed $P = 0$ and the value can be loosely interpreted as the probability the estimate is really zero. However, a more precise interpretation is that this statistic is the best value we can assign to the probability that a stock is absent, given the observed samples. Repeating the sampling events would potentially produce different, but likely comparable, values for these quantities.

Quirks Regarding Distributional Statistics

The Advisory Panel wanted to make sure that the uncertainty associated with estimates was well characterized so that interpretation could take that uncertainty into account. For this reason, we incorporated not only uncertainty in stock composition estimates, as is regularly done, but also uncertainty in commercial and subsistence harvest numbers, and in escapement estimates. The distributions of these uncertainties are best reflected by the empirical Monte Carlo distribution of the estimate. Therefore, to derive the point estimates and the uncertainty measures (i.e., 90% CI, SD), we added, multiplied or divided Monte Carlo distributions by iteration to come up with point estimates. The estimates are not the same as estimates produced by simply dividing or multiplying the point estimates of the distributions, especially for variables with high uncertainty and skewed distributions. These particular phenomena can be observed in the harvest rate calculations where dividing the point estimate (mean) of the harvest by the point estimate (mean) of the total run does not always produce the same point estimate (mean) of harvest rate as the harvest rate estimated using the full Monte Carlo distributions. For example, for South Peninsula reporting group, dividing the 2009 harvest from Table 127 (mean = 723,670 fish) by the total run from Table 6 (mean = 3,583,866 fish) results in a harvest rate of 20.2%. Contrast this rate with the harvest rate in Table 127 (28.8%), which is calculated from the Monte Carlo distributions. These discrepancies are easily explained by the simple fact that the mean of an inverse differs from the inverse of a mean. These differences in harvest rate estimates can vary from 0%, for reporting groups with low uncertainty in component variables, to approximately 10% for reporting groups with high component uncertainty. The larger the differences between the median and the mean shown in the total run tables (Tables 4–6), the more uncertainty there is that that reporting group. These discrepancies are easily explained by the simple fact that the mean of an inverse differs from the inverse of a mean. These differences in harvest rate estimates can vary from zero, for reporting groups with low uncertainty in component variables, to 3% for reporting groups with high component uncertainty.

VARIABILITY AND MAKING INFERENCES WITHIN AND OUTSIDE OF WASSIP YEARS

Like most other scientific studies, WASSIP analyses represent environmental and fishery conditions during a specific period of time. Nonetheless, these studies are conducted so that future scientific and policy activities may be better informed. We expect that WASSIP results will be cited for many years to come as the most comprehensive data set available to examine stock composition of sockeye and chum salmon in commercial and subsistence fisheries of Western Alaska. However, while this three-year data set provides some measure of interannual variability in stock composition, some caution must be exercised when extrapolating the results to years not analyzed because changes in relative abundance among reporting groups, prosecution of fisheries, or migratory behavior due to ocean conditions might affect distribution of stock-specific harvests among fisheries.

Results from this three-year study period reveal both very consistent stock harvest and harvest rate patterns as well as highly variable results. For example, in the South Alaska Peninsula post-June fisheries (Tables 125–127; Figures 12–14, 49–51, and 82), the harvest of the South Peninsula reporting group was 202,019 fish in 2007 and 176,742 fish in 2008, but increased substantially to 723,880 fish in 2009. Most of this variation was the result of much higher harvests in each area stratum within the South Alaska Peninsula post-June fishery in 2009 compared with the other two years, but a minor portion was also due to the differences in stock composition of the catches. This variation in South Peninsula reporting group harvest translated to variation in the harvest rates among years for this reporting group; harvest rates in 2007 and 2008 were 6.3% (2007) and 7.7% (2008), whereas in 2009 it was 26.8%. On the other hand, the Bristol Bay Area showed much more consistent harvests and harvest rates for the CWAK reporting group (Tables 158–160, Figures 17–19, 54–56, and 78). CWAK reporting group harvests ranged from 1,229,873 to 1,870,560 fish and harvest rates ranged from 20.5% to 22.3%. These comparisons highlight that even this extensive data set over three years may provide limited insight into interannual stability of stock composition within fisheries. Longer-term variation in salmon productivity and migratory behavior (Thompson et al. 1992; Hodgson et al. 2006) resulting from decadal scale environmental change, (e.g., Pacific Decadal Oscillation; Mantua et al. 1997) should be considered when extrapolating results from years sampled in WASSIP.

EVALUATING WASSIP SUCCESS

Crafting and modification of fisheries regulations in Alaska occurs within the Alaska Board of Fisheries process, where public involvement and stakeholder participation is a guiding principle. To some extent, regulatory and allocative decisions based upon scientific data will always be made in recognition of uncertainties associated with that data. Use of *best available science* has become part of our common lexicon in the regulatory arena.

Despite a number of previous studies, for more than two decades the Alaska Board of Fisheries and stakeholders have recognized the need for better information to address specific allocation and conservation concerns for sockeye and chum salmon fisheries in Western Alaska. Particular concern has been repeatedly raised about catches of Western Alaska chum and sockeye salmon in fisheries targeting sockeye salmon near False Pass on the Alaska Peninsula, in June. Unfortunately, despite a number of well-intended efforts which did produce useful results, no assemblage of previous data could comprehensively and satisfactorily address fundamental questions about stock-specific harvests of chum and sockeye salmon in Western Alaska fisheries. As a result, regulatory decisions designed to address allocation and conservation concerns swung widely between board cycles, sometimes based upon dubious interpretations of limited data.

Born from frustration with this state of affairs, WASSIP created a framework for representatives from all affected stakeholders in Western Alaska to collectively design a scientific study that would effectively address critical information gaps, using comprehensive sampling of regional fisheries and modern methods of genetic stock identification as a foundation. There were many skeptics who doubted the efficacy of this stakeholder driven science process, but also broad recognition that unless consensus on design and execution could be reached, there remained little hope of basing future regulatory decisions on objective scientific data accepted by all parties. WASSIP provided opportunity for representatives of major regional fishery interests to design the science that would inform regulatory decisions they must live with.

The question will frequently be asked as to how successful WASSIP was in fulfilling expectations of stakeholders and the public after eight years and more than \$6 million spent. Obviously, it will take several more years to see how data generated by the project can be used to address long-standing issues, and like many broadly inclusive processes, the answer will partly depend upon where one stands. However, some success can be measured now. While scores of individuals have stewarded WASSIP over the years, all signatories remained at the table to complete the project, despite major disagreements and a clear understanding that any signatory could withdraw from the MOU at any time. The failure of WASSIP to better distinguish Western Alaska chum salmon stocks from Bristol Bay to Norton Sound partially negated a foundational interest for some AYK stakeholders, yet they remained committed and engaged. An unprecedented sampling effort for chum and sockeye salmon occurred across Western Alaska, encompassing more than 3,000 km of coastline and collecting in excess of 300,000 samples from subsistence and commercial fisheries. Major expansions of genetic baselines, and increased number of genetic markers for both species were realized, also providing ancillary benefits beyond WASSIP. Extending estimates of stock proportions in harvests to stock-specific harvest rates represents a fundamental shift in how genetic stock identification data is viewed in assessing fishery impacts. In order to accomplish this, escapements of chum and sockeye salmon throughout Western Alaska were estimated, while explicitly recognizing uncertainty associated with those estimates. Significant effort was expended to more precisely estimate stock contributions at very low levels.

While specific benefits of WASSIP data in addressing difficult stakeholder issues remain to be seen, it is important to understand that the many genetic and biometric advances achieved in the project, coupled with the astounding magnitude of sampling efforts, will contribute to our basic understanding of Western Alaska chum and sockeye salmon populations for many years to come. Stock contributions to WASSIP fisheries will provide valuable insight to our knowledge of seasonal distribution and migration pathways for both species. Harvest compositions will likely contribute to improved brood tables and a better understand of productivity for some stocks, vital for better informing management decisions and establishing escapement goals. Expanded genetic baselines will provide a better foundation for understanding population structure, which not only contributes to improved application of genetic methods to fishery management, but potentially a more informed picture of evolutionary history of these populations. Each of these contributions, practical and purely scientific, adds important value to a study that will undoubtedly be referenced for decades to come.

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TABLES

Table 1.– Summary of historical tagging studies of chum salmon in the WASSIP fishing areas. Included are the area released; number and time period of releases; and number of recoveries in fisheries in the release area; fisheries in South Alaska Peninsula outside of release area, and fisheries and escapement distant to the area of release.

Year	Fishery	Date(s) of Release	Number Released	Recaptures																		Reference			
				Local Fisheries	Distant Fisheries or Escapement																				
					Local Fishery	South Unimak to Pavlof Bay Fishery	Shumaghin Island and SEML	Japan	Russia	Kotzebue	Norton Sound	Yukon River	Kuskokwim	Togiak	Nushagak	Naknek/Kivichak	Egegik	Ugashik	North Peninsula	South Peninsula	Chignik		Kodiak	Cook Inlet	East of Cook Inlet
1923	Shumagin Islands	4–6 Jul	245	9	45			1			1		1	1	2									Gilbert and Rich (1925)	
1923	Ikatan	11–18 Jul	379	129																					Gilbert and Rich (1925)
1939	Shumagin Islands	5–17 Jun	178	1	2							3		1											Shaul (2005)
1939	S. Unimak/Ikatan	5–17 Jun	13	2								2													Shaul (2005)
1961	E. Stepovak	17–25 Jun	42	1																2					Lall and Hennick (<i>unpublished</i>)
1956	S. Unimak/Ikatan	19 Jun –1 Jul	473								4	5		4				2							Hartt (1962)
1957	S. Unimak/Ikatan	27–29 May	58					2				1						1							Hartt (1962)
1961	S. Unimak/Ikatan	19 Jun–12 Jul	996	14			1	1		1	9	6	6	8	3	2	1	6							Thorsteinson and Merrell (1964)
1987	S. Unimak/Ikatan	7 Jun– 1 Jul	3496	37	16	19	7	7	2	6	18	100	69	132	23	12	8	43		1		1			Eggers et al. (1991)
1987	Shumagin Islands	6 Jun– 2 Jul	2828	2	49	41	30	6	1	4	9	47	20	39	15	4	3	14		9	4	3	1		Eggers et al. (1991)

Table 2.—Summary of historical tagging studies of chum salmon in the AYK fishing areas. Included are the area released; number and time period of releases; and number of recoveries in local fisheries in the release area, and recoveries in fisheries distant to the area of release and escapement.

				Recaptures																				
				Local Fisheries								Distant Fisheries, Inriver Fisheries or Escapement												
Year	Fishery	Date(s) of Release	Number Released	Kotzebue Dist.	Nome Sub.	Golovin Sub.	Moses Point Sub.	Norton Bay Sub.	Shaktoolik Sub.	Unalakleet Sub.	Hooper Bay	Qunihagak (W4)	Kotzebue	Point Clarence Sub.	Nome Sub.	Golovin Sub.	Moses Point Sub.	Norton Bay Sub.	Shaktoolik Sub.	Unalakleet Sub.	Yukon River	Kanectok River	Kuskokwim River	Reference
1966	Kotzebue District	Jul–Aug	727	83									88											Yanagawa 1969
1967	Kotzebue District	Jul–Aug	1457	237									139											Yanagawa 1969
1968	Kotzebue District	Jul–Aug	1444	199									120											Yanagawa 1969
1981	Kotzebue District	15 Jul–31 Aug	3305	671									188											Bigler and Burwin1984
1982	Kotzebue District	15 Jul–31 Aug	4919	1014									271											Bigler and Burwin1984
1978	Nome Subdistrict	20 June–16 Jul	423		12	1							4	3	47									Gaudet and Schaefer 1982
1978	Unalakleet Subdistrict	19 June–14 Jul	658				1	2	14	36							1		3	12	21			Gaudet and Schaefer 1982
1979	Nome Subdistrict	20 June–14 Jul	71		3	1									8									Gaudet and Schaefer 1982
1979	Shaktoolik Subdistrict	14 June–16-Jul	237					2	9	12							3		11					Gaudet and Schaefer 1982
1979	Unalakleet Subdistrict	14 June–16-Jul	304							24									1	3	6			Gaudet and Schaefer 1982
1986	Hooper Bay	18 Jun–18 Jul	1927								197		1			4		1		9	119			Kirkvliet (unpublished)
1969	Qunihagak (W4)	11 Jun–11 Jul	252									54										6		2 Baxter 1970
1970	Qunihagak (W4)	24 Jun–9 Jul	155									14										4		5 Baxter 1970

Table 3.– Summary of proxy stock composition estimates that will be used for strata with no or too few samples for chum salmon harvested in WASSIP area.

Fishery	Area Stratum	Year	Temporal Stratum	Period	Proxy Stock Composition
Chignik	Eastern District	2008	1	6/28–7/31	2007 & 2009 temporal stratum 1
S. Pen. June	Dolgoi Island	2007			Season Unimak 2007 temporal strata 1-5 ^a
	Dolgoi Island	2008			Season Unimak 2008 temporal strata 1-5 ^a
	Dolgoi Island	2009			Season Unimak 2009 temporal strata 1-5 ^a
	Ikatan area	2008	1	6/7–10	2007 & 2009 temporal stratum 1
N. Pen	Three Hills and Ilnik sections	2008	1	6/30–7/11	2007 & 2009 temporal stratum 1
Kuskokwim Area	District 5 Commercial	2008	1	6/19–7/1	2007 & 2009 temporal stratum 1
		2008	2	7/5–16	2007 & 2009 temporal stratum 2
		2008	3	7/21–8/29	2007 temporal stratum 3
		2009	3	7/20–8/24	2007 temporal stratum 3
	Mekoryuk Subsistence	2007	1		100% CWAK, CV = 0.00 ^b
		2008	1		100% CWAK, CV = 0.00 ^b
		2009	1		100% CWAK, CV = 0.00 ^b
Yukon-Northern Area Summer	District 1 Commercial Black River only	2007	3	7/6–15	Use stock composition estimate from matching strata in Dist. 1 Comm. excluding Black River if temporal strata 1 and 2 in 2007 are similar. If not, use average stock composition of temporal strata 1 and 2 in 2007 from District 1 Commercial Black River ^c
		2008	2	7/2–5	
		2008	3	7/8–14	
		2009	2	7/3–4	
		2009	3	7/10–11	
	District 1 (Scammon Bay) Black River Subsistence	2007	1	Season	2008 & 2009 temporal stratum 1
Yukon-Northern Area Fall	District 1 Commercial marine area excluding Black River	2009	3	9/6–10	2007 & 2008 temporal stratum 3
	District 1 Commercial Black River only	2008	2	7/29–8/1	100% Upper Yukon, CV = 0.00 ^d
Norton Sound Commercial	Norton Sound District				
	Subdistrict 6 Unalakleet	2007	3	8/5–9/7	2007 temporal stratum 2
	Subdistrict 5 Shaktoolik	2007	3	8/7–31	2007 temporal stratum 2
	Subdistrict 3 Moses Point	2009	1	8/7–9/4	2007 & 2008 temporal stratum 1

-continued-

Table 3. Page 2 of 2.

Fishery	Area Stratum	Year	Temporal Stratum	Period	Proxy Stock Composition
Norton Sound Subsistence	Subdistrict 2 Golovin	2009	1	8/7–8/26	2008 temporal stratum 1
	Norton Sound District				
	Stebbins area	2009	1	Season	2007 & 2008 temporal stratum 1
	St. Michael area	2009	1	Season	2007 & 2008 temporal stratum 1
	Subdistrict 6 Unalakleet	2007		Season	100% CWAK, CV = 0.00
		2008		Season	100% CWAK, CV = 0.00
		2009		Season	100% CWAK, CV = 0.00
	Subdistrict 5 Shaktoolik	2007		Season	100% CWAK, CV = 0.00
		2008		Season	100% CWAK, CV = 0.00
		2009		Season	100% CWAK, CV = 0.00
	Subdistrict 3 Moses Point	2008	1	Season	2007 temporal stratum 1
		2009	1	Season	2007 temporal stratum 1
	Subdistrict 2 Golovin	2007		Season	100% CWAK, CV = 0.00
		2008		Season	100% CWAK, CV = 0.00
		2009		Season	100% CWAK, CV = 0.00
	Nome area	2008	1	7/6	2007 temporal stratum 1
		2009	1	7/9	2007 temporal stratum 1
	Port Clarence District	2008	1	Season	2007 temporal stratum 1
		2009	1	Season	2007 temporal stratum 1

^a Dolgoi Island June fishery was not included in the WASSIP sampling plan.

^b Mekoryuk subsistence: No other information is available on which to base an informed estimate.

^c Dan Bergstrom, Arctic-Yukon-Kuskokwim regional manager, ADF&G, Anchorage, personal communication. Given the timing of the harvests for the strata without genetic samples (early to mid-July), the fish harvested were most likely 100% Yukon River summer chum (i.e., CWAK). Indications are that Yukon River fall chum are showing up in the fishery later in recent years.

^d Dan Bergstrom, Arctic-Yukon-Kuskokwim regional manager, ADF&G, Anchorage, personal communication.

**TABLES 4-6: TOTAL ANNUAL RUN BY REPORTING
GROUP**

Table 4.—Components and estimates of the total run for chum salmon by reporting group for the Western Alaska Salmon Stock Identification Program, 2007. Components include reporting group-specific means and CVs of commercial harvest for fisheries included in the Program sampling plan, subsistence harvest not in the sampling plan, and escapement. Estimates of the total run include median, 90% credibility interval, mean, SD and CV.

Reporting Group	Harvest				Escapement ^a		Total Run					
	WASSIP Comm. & Sub.		Subsistence ^{a,b}		Mean	CV	90% CI			Mean	SD	CV
	Mean	CV	Mean	CV			Median	5%	95%			
Kotzebue Sound	150,660	0.05	54,351	0.10	868,390	1.02	812,275	355,542	2,654,603	1,073,401	887,227	0.83
CWAK ^c	2,245,151	0.03	151,885	0.10	6,175,741	0.35	8,401,581	5,925,006	12,755,184	8,755,495	2,156,688	0.25
Upper Yukon River ^d	42,455	0.04	101,415	0.10	910,776	0.06	1,105,252	1,017,366	1,200,659	1,106,480	55,799	0.05
Northern District ^e	126,434	0.15	NA	NA	866,749	1.09	724,126	271,823	2,637,779	1,002,307	941,411	0.94
Northwestern District ^f	11,431	0.15	NA	NA	1,984,776	1.09	1,447,460	418,672	5,853,315	2,092,248	2,166,618	1.04
South Peninsula	250,038	0.03	520	0.10	4,365,013	1.09	3,200,468	934,501	12,879,080	4,615,571	4,736,543	1.03
Chignik/Kodiak	100,352	0.06	431	0.10	3,475,000	1.10	2,449,575	645,894	10,176,517	3,575,783	3,809,197	1.07

Note: Total run means and medians can be used to evaluate symmetry of posterior distribution. Total run mean is the sum of the harvest (including terminal and inriver harvest) and escapement means.

NA = Subsistence harvest reports are not comprehensive for these areas; therefore subsistence harvest (if any) is unknown.

^a Means and CV of simulated data sampled from lognormal distributions; therefore, they may differ from those reported in the escapement report and subsistence harvest appendices in this report.

^b Subsistence harvest adjusted, where possible, to not include harvest above assessment projects and already accounted for in escapement estimate or part of WASSIP sampling plan.

^c CWAK reporting group includes 182,695 inriver commercial harvest of summer chum salmon in Districts 1 through 6 (except District 1 marine harvest included in WASSIP sampling plan) commercial fisheries, Yukon River; CV = 0.05.

^d Upper Yukon River reporting group total run includes 51,825 inriver commercial harvest of fall chum salmon in Districts 1 through 6 (except District 1 marine harvest included in WASSIP sampling plan) commercial fisheries, Yukon River; CV = 0.05.

^e Northern District reporting group total run includes 9,123 terminal harvest of chum salmon in Black Hills, Nelson Lagoon, Port Moller Bight, and Herendeen–Moller Bay sections, Northern District commercial fisheries; CV = 0.05.

^f Northwestern District reporting group total run includes 96,006 terminal harvest of chum salmon in Dublin Bay, Uria Bay, Swanson Lagoon, Bechevin Bay, and Izembek–Moffet Bay section in Northwestern District commercial fisheries; CV = 0.05.

Table 5.—Components and estimates of the total run for chum salmon by reporting group for the Western Alaska Salmon Stock Identification Program, 2008. Components include reporting group-specific means and CVs of commercial harvest for fisheries included in the Program sampling plan, subsistence harvest not in the sampling plan, and escapement. Estimates of the total run include median, 90% credibility interval, mean, SD and CV.

Reporting Group	Harvest				Escapement ^a		Total Run						
	WASSIP Comm. & Sub.		Subsistence ^{a,b}		Mean	CV	Median	90% CI			Mean	SD	CV
	Mean	CV	Mean	CV				5%	95%				
Kotzebue Sound	197,281	0.05	54,317	0.10	1,236,779	1.01	1,121,008	467,038	3,725,121	1,488,377	1,252,171	0.84	
CWAK ^c	1,635,819	0.02	138,363	0.10	4,249,413	0.29	6,001,760	4,478,543	8,422,337	6,168,990	1,233,432	0.20	
Upper Yukon River ^d	68,631	0.05	89,552	0.10	687,018	0.07	895,238	818,667	979,934	896,726	49,148	0.05	
Northern District ^e	44,298	0.18	66	0.11	1,245,318	1.08	951,652	302,040	3,713,435	1,350,576	1,348,845	1.00	
Northwestern District ^f	23,152	0.10	NA	NA	1,783,367	1.10	1,333,844	410,110	5,282,994	1,910,651	1,969,270	1.03	
South Peninsula	249,313	0.03	790	0.10	3,001,672	1.08	2,292,472	724,383	8,923,204	3,251,776	3,227,197	0.99	
Chignik/Kodiak	233,437	0.03	243	0.10	2,544,822	1.10	1,946,912	633,371	7,610,712	2,778,501	2,807,686	1.01	

Note: Total run means and medians can be used to evaluate symmetry of posterior distribution. Total run mean is the sum of the harvest (including terminal and inriver harvest) and escapement means.

NA = Subsistence harvest reports are not comprehensive for these areas; therefore subsistence harvest (if any) is unknown.

^a Means and CV of simulated data sampled from lognormal distributions therefore, they may differ from those reported in the escapement report and subsistence harvest appendices in this report.

^b Subsistence harvest adjusted, where possible, to not include harvest above assessment projects and already accounted for in escapement estimate or part of WASSIP sampling plan.

^c CWAK reporting group includes 145,378 inriver commercial harvest of summer chum salmon in Districts 1 through 6 (except District 1 marine harvest included in WASSIP sampling plan) commercial fisheries, Yukon River; CV = 0.05.

^d Upper Yukon River reporting group total run includes 51,539 inriver commercial harvest of fall chum salmon in Districts 1 through 6 (except District 1 marine harvest included in WASSIP sampling plan) commercial fisheries, Yukon River; CV = 0.05.

^e Northern District reporting group total run includes 60,892 terminal harvest of chum salmon in Black Hills, Nelson Lagoon, Port Moller Bight, and Herendeen–Moller Bay sections, Northern District commercial fisheries; CV = 0.05.

^f Northwestern District reporting group total run includes 104,140 terminal harvest of chum salmon in Dublin Bay, Urtilla Bay, Swanson Lagoon, Bechevin Bay, and Izembek–Moffet Bay section in Northwestern District commercial fisheries; CV = 0.05.

Table 6.—Components and estimates of the total run for chum salmon by reporting group for the Western Alaska Salmon Stock Identification Program, 2009. Components include reporting group-specific means and CVs of commercial harvest for fisheries included in the Program sampling plan, subsistence harvest not in the sampling plan, and escapement. Estimates of the total run include median, 90% credibility interval, mean, SD and CV.

Reporting Group	Harvest				Escapement ^a		Total Run					
	WASSIP Comm. & Sub.		Subsistence ^{a,b}		Mean	CV	90% CI			Mean	SD	CV
	Mean	CV	Mean	CV			Median	5%	95%			
Kotzebue Sound	191,457	0.05	54,303	0.10	711,399	1.03	744,622	369,262	2,243,171	957,159	733,988	0.77
CWAK ^c	2,036,101	0.02	111,421	0.10	3,991,880	0.31	6,123,152	4,616,373	8,605,774	6,302,064	1,245,524	0.20
Upper Yukon River ^d	13,565	0.10	66,161	0.10	482,333	0.07	574,892	521,453	634,583	576,021	34,528	0.06
Northern District ^e	64,411	0.13	NA	NA	1,091,118	1.09	810,538	242,153	3,232,353	1,162,822	1,193,351	1.03
Northwestern District ^f	43,979	0.08	39	0.10	557,480	1.06	478,720	186,466	1,712,261	655,679	593,308	0.90
South Peninsula	856,535	0.03	428	0.10	2,726,903	1.09	2,701,080	1,291,446	8,692,035	3,583,866	2,960,123	0.83
Chignik/Kodiak	266,195	0.04	482	0.10	3,448,767	1.08	2,598,353	811,531	10,256,476	3,715,444	3,717,870	1.00

Note: Total run means and medians can be used to evaluate symmetry of posterior distribution. Total run mean is the sum of the harvest (including terminal and inriver harvest) and escapement means.

NA = Subsistence harvest reports are not comprehensive for these areas; therefore, subsistence harvest (if any) is unknown.

^a Means and CV of simulated data sampled from lognormal distributions; therefore, they may differ from those reported in the escapement report and subsistence harvest appendices in this report.

^b Subsistence harvest adjusted, where possible, to not include harvest above assessment projects and already accounted for in escapement estimate or part of WASSIP sampling plan.

^c CWAK reporting group includes 162,702 inriver commercial harvest of summer chum salmon in Districts 1 through 6 (except District 1 marine harvest included in WASSIP sampling plan) commercial fisheries, Yukon River; CV = 0.05.

^d Upper Yukon River reporting group total run includes 13,965 inriver commercial harvest of fall chum salmon in Districts 1 through 6 (except District 1 marine harvest included in WASSIP sampling plan) commercial fisheries, Yukon River; CV = 0.05.

^e Northern District reporting group total run includes 7,294 terminal harvest of chum salmon in Black Hills, Nelson Lagoon, Port Moller Bight, and Herendeen–Moller Bay sections, Northern District commercial fisheries; CV = 0.05.

^f Northwestern District reporting group total run includes 54,169 terminal harvest of chum salmon in Dublin Bay, Uria Bay, Swanson Lagoon, Bechevin Bay, and Izembek–Moffet Bay section in Northwestern District commercial fisheries; CV = 0.05.

**TABLES 7-115: HARVEST AND HARVEST RATE IN AN
AREA STRATUM BY REPORTING GROUP**

***WHAT STOCKS WERE HARVESTED IN A GIVEN FINE-SCALE
FISHERY?***

Table 7.—Eastern District, Commercial, Chignik Area, Westward Region, 2007, all strata. Reporting group-specific harvest and harvest rate estimates. Medians, 90% credibility intervals, the probability that reporting group harvest estimate is equal to zero ($P = 0$), means, and SDs are reported.

Reporting Group	Harvest = 7,851; 2 strata						Harvest Rate (%)				
	Median ^a	90% CI		$P = 0$	Mean	SD	Median	90% CI		Mean	SD
		5%	95%					5%	95%		
Asia	799	533	1,098	0.00	796	172	—	—	—	—	—
Kotzebue Sound	0	0	290	0.68	52	104	0.0	0.0	0.0	0.0	0.0
CWAK	1,439	1,040	1,821	0.00	1,419	238	0.0	0.0	0.0	0.0	0.0
Upper Yukon River	0	0	3	0.93	2	10	0.0	0.0	0.0	0.0	0.0
Northern District	0	0	52	0.86	7	29	0.0	0.0	0.0	0.0	0.0
Northwestern District	22	0	215	0.34	55	76	0.0	0.0	0.0	0.0	0.0
South Peninsula	759	57	1,389	0.02	730	413	0.0	0.0	0.1	0.0	0.0
Chignik/Kodiak	1,631	1,004	2,419	0.00	1,644	445	0.1	0.0	0.3	0.1	0.1
East of Kodiak	3,200	2,650	3,673	0.00	3,147	312	—	—	—	—	—
Total	7,850				7,852						

Note: Harvest is the number of chum salmon reported to have been harvested in the area stratum.

Note: Harvest rate is the area stratum harvest divided by the total run within the WASSIP area for a given reporting group, expressed as a percent.

Note: Harvest rates are calculated by dividing the harvest posterior by total run posterior distributions; therefore, mean harvest rate may not equal harvest rate calculated from numbers reported in the tables if distributions are highly skewed.

Note: Harvest rate for Asia and East of WASSIP were not calculated because they were not part of WASSIP plan.

^a Adjusted median; 1.02 times unadjusted median.

Table 8.—Eastern District, Commercial, Chignik Area, Westward Region, 2008, all strata. Reporting group-specific harvest and harvest rate estimates. Medians, 90% credibility intervals, the probability that reporting group harvest estimate is equal to zero ($P = 0$), means, and SDs are reported.

Reporting Group	Harvest = 58,925; 2 strata						Harvest Rate (%)				
	Median ^a	90% CI		$P = 0$	Mean	SD	Median	90% CI		Mean	SD
		5%	95%					5%	95%		
Asia	313	184	777	0.00	401	201	—	—	—	—	—
Kotzebue Sound	36	0	265	0.38	74	94	0.0	0.0	0.0	0.0	0.0
CWAK	466	339	603	0.00	465	82	0.0	0.0	0.0	0.0	0.0
Upper Yukon River	4,990	0	6,107	0.15	3,367	2,602	0.5	0.0	0.7	0.4	0.3
Northern District	328	158	566	0.00	339	126	0.0	0.0	0.1	0.0	0.0
Northwestern District	72	0	293	0.14	98	99	0.0	0.0	0.0	0.0	0.0
South Peninsula	253	26	467	0.02	246	137	0.0	0.0	0.0	0.0	0.0
Chignik/Kodiak	50,986	46,511	54,764	0.00	50,530	2,520	2.6	0.7	8.0	3.2	2.4
East of Kodiak	1,481	1,105	7,118	0.00	3,395	2,577	—	—	—	—	—
Total	58,925				58,915						

Note: Harvest is the number of chum salmon reported to have been harvested in the area stratum.

Note: Harvest rate is the area stratum harvest divided by the total run within the WASSIP area for a given reporting group, expressed as a percent.

Note: Harvest rates are calculated by dividing the harvest posterior by total run posterior distributions; therefore, mean harvest rate may not equal harvest rate calculated from numbers reported in the tables if distributions are highly skewed.

Note: Harvest rate for Asia and East of WASSIP were not calculated because they were not part of WASSIP plan.

^a Adjusted median; 1.01 times unadjusted median.

Table 9.—Eastern District, Commercial, Chignik Area, Westward Region, 2009, all strata. Reporting group-specific harvest and harvest rate estimates. Medians, 90% credibility intervals, the probability that reporting group harvest estimate is equal to zero ($P = 0$), means, and SDs are reported.

Reporting Group	Harvest = 59,800; 2 strata						Harvest Rate (%)				
	Median ^a	90% CI		$P = 0$	Mean	SD	Median	90% CI		Mean	SD
		5%	95%					5%	95%		
Asia	1,092	564	1,811	0.00	1,117	384	—	—	—	—	—
Kotzebue Sound	0	0	1	0.95	2	16	0.0	0.0	0.0	0.0	0.0
CWAK	366	62	948	0.01	413	280	0.0	0.0	0.0	0.0	0.0
Upper Yukon River	0	0	112	0.89	17	80	0.0	0.0	0.0	0.0	0.0
Northern District	0	0	294	0.74	44	118	0.0	0.0	0.0	0.0	0.0
Northwestern District	0	0	3	0.93	6	52	0.0	0.0	0.0	0.0	0.0
South Peninsula	26	0	3,849	0.34	812	1,357	0.0	0.0	0.2	0.0	0.1
Chignik/Kodiak	57,416	52,040	60,606	0.00	56,456	2,598	2.2	0.5	7.0	2.7	2.1
East of Kodiak	900	422	1,600	0.00	932	364	—	—	—	—	—
Total	59,800				59,799						

Note: Harvest is the number of chum salmon reported to have been harvested in the area stratum.

Note: Harvest rate is the area stratum harvest divided by the total run within the WASSIP area for a given reporting group, expressed as a percent.

Note: Harvest rates are calculated by dividing the harvest posterior by total run posterior distributions; therefore, mean harvest rate may not equal harvest rate calculated from numbers reported in the tables if distributions are highly skewed.

Note: Harvest rate for Asia and East of WASSIP were not calculated because they were not part of WASSIP plan.

^a Adjusted median; 1.02 times unadjusted median.

Table 10.–Central District, Commercial, Chignik Area, Westward Region, 2007, all strata. Reporting group-specific harvest and harvest rate estimates. Medians, 90% credibility intervals, the probability that reporting group harvest estimate is equal to zero ($P = 0$), means, and SDs are reported.

Reporting Group	Harvest = 19,595; 2 strata						Harvest Rate (%)				
	Median ^a	90% CI		$P = 0$	Mean	SD	Median	90% CI		Mean	SD
		5%	95%					5%	95%		
Asia	2,616	2,102	3,174	0.00	2,617	325	–	–	–	–	–
Kotzebue Sound	0	0	3	0.93	3	19	0.0	0.0	0.0	0.0	0.0
CWAK	565	325	874	0.00	576	169	0.0	0.0	0.0	0.0	0.0
Upper Yukon River	0	0	1	0.94	1	12	0.0	0.0	0.0	0.0	0.0
Northern District	0	0	0	0.96	2	16	0.0	0.0	0.0	0.0	0.0
Northwestern District	0	0	0	0.95	1	10	0.0	0.0	0.0	0.0	0.0
South Peninsula	2,325	1,362	3,412	0.00	2,341	625	0.1	0.0	0.3	0.1	0.1
Chignik/Kodiak	10,622	9,351	11,848	0.00	10,584	760	0.4	0.1	1.6	0.6	0.5
East of Kodiak	3,468	2,865	4,123	0.00	3,468	383	–	–	–	–	–
Total	19,596				19,593						

Note: Harvest is the number of chum salmon reported to have been harvested in the area stratum.

Note: Harvest rate is the area stratum harvest divided by the total run within the WASSIP area for a given reporting group, expressed as a percent.

Note: Harvest rates are calculated by dividing the harvest posterior by total run posterior distributions; therefore, mean harvest rate may not equal harvest rate calculated from numbers reported in the tables if distributions are highly skewed.

Note: Harvest rate for Asia and East of WASSIP were not calculated because they were not part of WASSIP plan.

^a Adjusted median; 1.00 times unadjusted median.

Table 11.–Central District, Commercial, Chignik Area, Westward Region, 2008, all strata. Reporting group-specific harvest and harvest rate estimates. Medians, 90% credibility intervals, the probability that reporting group harvest estimate is equal to zero ($P = 0$), means, and SDs are reported.

Reporting Group	Harvest = 40,130; 2 strata						Harvest Rate (%)				
	Median ^a	90% CI		$P = 0$	Mean	SD	Median	90% CI		Mean	SD
		5%	95%					5%	95%		
Asia	2,064	1,437	2,775	0.00	2,061	409	–	–	–	–	–
Kotzebue Sound	0	0	2	0.94	4	33	0.0	0.0	0.0	0.0	0.0
CWAK	663	323	1,137	0.00	682	251	0.0	0.0	0.0	0.0	0.0
Upper Yukon River	0	0	2	0.94	2	17	0.0	0.0	0.0	0.0	0.0
Northern District	0	0	11	0.92	8	54	0.0	0.0	0.0	0.0	0.0
Northwestern District	0	0	2	0.94	4	27	0.0	0.0	0.0	0.0	0.0
South Peninsula	377	0	3,770	0.15	949	1,279	0.0	0.0	0.2	0.1	0.1
Chignik/Kodiak	35,877	31,730	38,313	0.00	35,252	1,990	1.8	0.5	5.6	2.3	1.7
East of Kodiak	1,148	425	2,070	0.00	1,169	514	–	–	–	–	–
Total	40,129				40,131						

Note: Harvest is the number of chum salmon reported to have been harvested in the area stratum.

Note: Harvest rate is the area stratum harvest divided by the total run within the WASSIP area for a given reporting group, expressed as a percent.

Note: Harvest rates are calculated by dividing the harvest posterior by total run posterior distributions; therefore, mean harvest rate may not equal harvest rate calculated from numbers reported in the tables if distributions are highly skewed.

Note: Harvest rate for Asia and East of WASSIP were not calculated because they were not part of WASSIP plan.

^a Adjusted median; 1.01 times unadjusted median.

Table 12.–Central District, Commercial, Chignik Area, Westward Region, 2009, all strata. Reporting group-specific harvest and harvest rate estimates. Medians, 90% credibility intervals, the probability that reporting group harvest estimate is equal to zero ($P = 0$), means, and SDs are reported.

Reporting Group	Harvest = 62,149; 2 strata						Harvest Rate (%)				
	Median ^a	90% CI		$P = 0$	Mean	SD	Median	90% CI		Mean	SD
		5%	95%					5%	95%		
Asia	4,803	3,602	6,142	0.00	4,797	772	–	–	–	–	–
Kotzebue Sound	0	0	1	0.94	3	26	0.0	0.0	0.0	0.0	0.0
CWAK	1,370	746	2,199	0.00	1,398	445	0.0	0.0	0.0	0.0	0.0
Upper Yukon River	0	0	1	0.94	2	18	0.0	0.0	0.0	0.0	0.0
Northern District	0	0	36	0.90	10	57	0.0	0.0	0.0	0.0	0.0
Northwestern District	0	0	46	0.90	18	118	0.0	0.0	0.0	0.0	0.0
South Peninsula	0	0	3,483	0.64	547	1,354	0.0	0.0	0.1	0.0	0.1
Chignik/Kodiak	53,772	48,867	57,139	0.00	53,144	2,559	2.0	0.5	6.6	2.6	2.0
East of Kodiak	2,205	1,394	3,249	0.00	2,234	569	–	–	–	–	–
Total	62,150				62,153						

Note: Harvest is the number of chum salmon reported to have been harvested in the area stratum.

Note: Harvest rate is the area stratum harvest divided by the total run within the WASSIP area for a given reporting group, expressed as a percent.

Note: Harvest rates are calculated by dividing the harvest posterior by total run posterior distributions; therefore, mean harvest rate may not equal harvest rate calculated from numbers reported in the tables if distributions are highly skewed.

Note: Harvest rate for Asia and East of WASSIP were not calculated because they were not part of WASSIP plan.

^a Adjusted median; 1.01 times unadjusted median.

Table 13.—Chignik Bay District, Commercial, Chignik Area, Westward Region, 2007, all strata. Reporting group-specific harvest and harvest rate estimates. Medians, 90% credibility intervals, the probability that reporting group harvest estimate is equal to zero ($P = 0$), means, and SDs are reported.

Reporting Group	Harvest = 3,828; 1 stratum						Harvest Rate (%)				
	Median ^a	90% CI		$P = 0$	Mean	SD	Median	90% CI		Mean	SD
		5%	95%					5%	95%		
Asia	0	0	0	1.00	0	0	—	—	—	—	—
Kotzebue Sound	0	0	0	1.00	0	0	0.0	0.0	0.0	0.0	0.0
CWAK	0	0	0	1.00	0	0	0.0	0.0	0.0	0.0	0.0
Upper Yukon River	0	0	0	1.00	0	0	0.0	0.0	0.0	0.0	0.0
Northern District	0	0	0	1.00	0	0	0.0	0.0	0.0	0.0	0.0
Northwestern District	0	0	0	1.00	0	0	0.0	0.0	0.0	0.0	0.0
South Peninsula	0	0	0	1.00	0	0	0.0	0.0	0.0	0.0	0.0
Chignik/Kodiak	3,828	3,521	4,149	0.00	3,827	191	0.2	0.0	0.6	0.2	0.2
East of Kodiak	0	0	0	1.00	0	0	—	—	—	—	—
Total	3,828				3,827						

Note: Harvest is the number of chum salmon reported to have been harvested in the area stratum.

Note: Harvest rate is the area stratum harvest divided by the total run within the WASSIP area for a given reporting group, expressed as a percent.

Note: Harvest rates are calculated by dividing the harvest posterior by total run posterior distributions; therefore, mean harvest rate may not equal harvest rate calculated from numbers reported in the tables if distributions are highly skewed.

Note: Harvest rate for Asia and East of WASSIP were not calculated because they were not part of WASSIP plan.

^a Adjusted median; 1.00 times unadjusted median.

Table 14.—Chignik Bay District, Commercial, Chignik Area, Westward Region, 2008, all strata. Reporting group-specific harvest and harvest rate estimates. Medians, 90% credibility intervals, the probability that reporting group harvest estimate is equal to zero ($P = 0$), means, and SDs are reported.

Reporting Group	Harvest = 13,453; 1 stratum						Harvest Rate (%)				
	Median ^a	90% CI		$P = 0$	Mean	SD	Median	90% CI		Mean	SD
		5%	95%					5%	95%		
Asia	0	0	0	1.00	0	0	—	—	—	—	—
Kotzebue Sound	0	0	0	1.00	0	0	0.0	0.0	0.0	0.0	0.0
CWAK	0	0	0	1.00	0	0	0.0	0.0	0.0	0.0	0.0
Upper Yukon River	0	0	0	1.00	0	0	0.0	0.0	0.0	0.0	0.0
Northern District	0	0	0	1.00	0	0	0.0	0.0	0.0	0.0	0.0
Northwestern District	0	0	0	1.00	0	0	0.0	0.0	0.0	0.0	0.0
South Peninsula	0	0	0	1.00	0	0	0.0	0.0	0.0	0.0	0.0
Chignik/Kodiak	13,453	12,374	14,592	0.00	13,453	675	0.7	0.2	2.1	0.9	0.6
East of Kodiak	0	0	0	1.00	0	0	—	—	—	—	—
Total	13,453				13,453						

Note: Harvest is the number of chum salmon reported to have been harvested in the area stratum.

Note: Harvest rate is the area stratum harvest divided by the total run within the WASSIP area for a given reporting group, expressed as a percent.

Note: Harvest rates are calculated by dividing the harvest posterior by total run posterior distributions; therefore, mean harvest rate may not equal harvest rate calculated from numbers reported in the tables if distributions are highly skewed.

Note: Harvest rate for Asia and East of WASSIP were not calculated because they were not part of WASSIP plan.

^a Adjusted median; 1.00 times unadjusted median.

Table 15.—Chignik Bay District, Commercial, Chignik Area, Westward Region, 2009, all strata. Reporting group-specific harvest and harvest rate estimates. Medians, 90% credibility intervals, the probability that reporting group harvest estimate is equal to zero ($P = 0$), means, and SDs are reported.

Reporting Group	Harvest = 14,552; 1 stratum						Harvest Rate (%)				
	Median ^a	90% CI		$P = 0$	Mean	SD	Median	90% CI		Mean	SD
		5%	95%					5%	95%		
Asia	0	0	0	1.00	0	0	—	—	—	—	—
Kotzebue Sound	0	0	0	1.00	0	0	0.0	0.0	0.0	0.0	0.0
CWAK	0	0	0	1.00	0	0	0.0	0.0	0.0	0.0	0.0
Upper Yukon River	0	0	0	1.00	0	0	0.0	0.0	0.0	0.0	0.0
Northern District	0	0	0	1.00	0	0	0.0	0.0	0.0	0.0	0.0
Northwestern District	0	0	0	1.00	0	0	0.0	0.0	0.0	0.0	0.0
South Peninsula	0	0	0	1.00	0	0	0.0	0.0	0.0	0.0	0.0
Chignik/Kodiak	14,552	13,384	15,772	0.00	14,544	725	0.6	0.1	1.8	0.7	0.5
East of Kodiak	0	0	0	1.00	0	0	—	—	—	—	—
Total	14,552				14,544						

Note: Harvest is the number of chum salmon reported to have been harvested in the area stratum.

Note: Harvest rate is the area stratum harvest divided by the total run within the WASSIP area for a given reporting group, expressed as a percent.

Note: Harvest rates are calculated by dividing the harvest posterior by total run posterior distributions; therefore, mean harvest rate may not equal harvest rate calculated from numbers reported in the tables if distributions are highly skewed.

Note: Harvest rate for Asia and East of WASSIP were not calculated because they were not part of WASSIP plan.

^a Adjusted median; 1.00 times unadjusted median.

Table 16.–Western and Perryville districts, Commercial, Chignik Area, Westward Region, 2007, all strata. Reporting group-specific harvest and harvest rate estimates. Medians, 90% credibility intervals, the probability that reporting group harvest estimate is equal to zero ($P = 0$), means, and SDs are reported.

Reporting Group	Harvest = 47,278; 2 strata						Harvest Rate (%)				
	Median ^a	90% CI		$P = 0$	Mean	SD	Median	90% CI		Mean	SD
		5%	95%					5%	95%		
Asia	6,987	5,756	8,103	0.00	6,882	713	–	–	–	–	–
Kotzebue Sound	0	0	2	0.93	2	15	0.0	0.0	0.0	0.0	0.0
CWAK	725	356	1,208	0.00	738	262	0.0	0.0	0.0	0.0	0.0
Upper Yukon River	248	84	522	0.00	265	138	0.0	0.0	0.0	0.0	0.0
Northern District	0	0	497	0.61	97	180	0.0	0.0	0.1	0.0	0.0
Northwestern District	0	0	304	0.54	63	111	0.0	0.0	0.0	0.0	0.0
South Peninsula	282	0	3,888	0.22	1,063	1,383	0.0	0.0	0.2	0.0	0.1
Chignik/Kodiak	30,807	26,589	33,009	0.00	30,066	1,943	1.2	0.3	4.7	1.7	1.5
East of Kodiak	8,229	6,788	9,516	0.00	8,101	829	–	–	–	–	–
Total	47,278				47,277						

Note: Harvest is the number of chum salmon reported to have been harvested in the area stratum.

Note: Harvest rate is the area stratum harvest divided by the total run within the WASSIP area for a given reporting group, expressed as a percent.

Note: Harvest rates are calculated by dividing the harvest posterior by total run posterior distributions; therefore, mean harvest rate may not equal harvest rate calculated from numbers reported in the tables if distributions are highly skewed.

Note: Harvest rate for Asia and East of WASSIP were not calculated because they were not part of WASSIP plan.

^a Adjusted median; 1.02 times unadjusted median.

Table 17.—Western and Perryville districts, Commercial, Chignik Area, Westward Region, 2008, all strata. Reporting group-specific harvest and harvest rate estimates. Medians, 90% credibility intervals, the probability that reporting group harvest estimate is equal to zero ($P = 0$), means, and SDs are reported.

Reporting Group	Harvest = 96,817; 2 strata						Harvest Rate (%)				
	Median ^a	90% CI		$P = 0$	Mean	SD	Median	90% CI		Mean	SD
		5%	95%					5%	95%		
Asia	14,536	12,119	17,029	0.00	14,480	1,491	—	—	—	—	—
Kotzebue Sound	0	0	1	0.94	4	37	0.0	0.0	0.0	0.0	0.0
CWAK	3,553	2,094	5,035	0.00	3,543	885	0.1	0.0	0.1	0.1	0.0
Upper Yukon River	0	0	0	0.95	2	15	0.0	0.0	0.0	0.0	0.0
Northern District	0	0	1,495	0.76	223	526	0.0	0.0	0.2	0.0	0.1
Northwestern District	812	243	1,749	0.01	877	480	0.1	0.0	0.3	0.1	0.1
South Peninsula	6,702	0	13,528	0.06	6,828	3,895	0.3	0.0	1.1	0.4	0.4
Chignik/Kodiak	69,521	61,120	77,030	0.00	69,038	4,808	3.5	0.9	10.9	4.4	3.2
East of Kodiak	1,693	637	3,562	0.00	1,840	923	—	—	—	—	—
Total	96,817				96,835						

Note: Harvest is the number of chum salmon reported to have been harvested in the area stratum.

Note: Harvest rate is the area stratum harvest divided by the total run within the WASSIP area for a given reporting group, expressed as a percent.

Note: Harvest rates are calculated by dividing the harvest posterior by total run posterior distributions; therefore, mean harvest rate may not equal harvest rate calculated from numbers reported in the tables if distributions are highly skewed.

Note: Harvest rate for Asia and East of WASSIP were not calculated because they were not part of WASSIP plan.

^a Adjusted median; 1.01 times unadjusted median.

Table 18.—Western and Perryville districts, Commercial, Chignik Area, Westward Region, 2009, all strata. Reporting group-specific harvest and harvest rate estimates. Medians, 90% credibility intervals, the probability that reporting group harvest estimate is equal to zero ($P = 0$), means, and SDs are reported.

Reporting Group	Harvest = 118,798; 2 strata						Harvest Rate (%)				
	Median ^a	90% CI		$P = 0$	Mean	SD	Median	90% CI		Mean	SD
		5%	95%					5%	95%		
Asia	19,973	16,101	23,857	0.00	19,815	2,365	—	—	—	—	—
Kotzebue Sound	0	0	2,893	0.76	392	1,022	0.0	0.0	0.4	0.1	0.2
CWAK	30,437	25,152	35,383	0.00	30,131	3,118	0.5	0.3	0.7	0.5	0.1
Upper Yukon River	0	0	569	0.83	74	264	0.0	0.0	0.1	0.0	0.0
Northern District	808	0	2,848	0.32	968	1,007	0.1	0.0	0.6	0.2	0.2
Northwestern District	1,833	595	3,586	0.01	1,912	929	0.4	0.1	1.2	0.5	0.4
South Peninsula	5,466	25	13,055	0.03	5,865	3,940	0.2	0.0	0.7	0.2	0.2
Chignik/Kodiak	55,812	46,294	63,435	0.00	55,034	5,212	2.1	0.5	6.8	2.7	2.0
East of Kodiak	4,469	2,706	7,305	0.00	4,625	1,445	—	—	—	—	—
Total	118,798				118,816						

Note: Harvest is the number of chum salmon reported to have been harvested in the area stratum.

Note: Harvest rate is the area stratum harvest divided by the total run within the WASSIP area for a given reporting group, expressed as a percent.

Note: Harvest rates are calculated by dividing the harvest posterior by total run posterior distributions; therefore, mean harvest rate may not equal harvest rate calculated from numbers reported in the tables if distributions are highly skewed.

Note: Harvest rate for Asia and East of WASSIP were not calculated because they were not part of WASSIP plan.

^a Adjusted median; 1.01 times unadjusted median.

Table 19.—Southeastern District Mainland (SEDM) area, Commercial, Southeastern District, Alaska Peninsula Area, Westward Region, 2007, all strata. Reporting group-specific harvest and harvest rate estimates. Medians, 90% credibility intervals, the probability that reporting group harvest estimate is equal to zero ($P = 0$), means, and SDs are reported.

Reporting Group	Harvest = 40,649; 1 stratum						Harvest Rate (%)				
	Median ^a	90% CI		$P = 0$	Mean	SD	Median	90% CI		Mean	SD
		5%	95%					5%	95%		
Asia	0	0	0	1.00	0	0	—	—	—	—	—
Kotzebue Sound	0	0	0	1.00	0	0	0.0	0.0	0.0	0.0	0.0
CWAK	0	0	0	1.00	0	0	0.0	0.0	0.0	0.0	0.0
Upper Yukon River	0	0	0	1.00	0	0	0.0	0.0	0.0	0.0	0.0
Northern District	0	0	0	1.00	0	0	0.0	0.0	0.0	0.0	0.0
Northwestern District	0	0	0	1.00	0	0	0.0	0.0	0.0	0.0	0.0
South Peninsula	40,649	37,387	44,056	0.00	40,639	2,029	1.3	0.3	4.4	1.7	1.3
Chignik/Kodiak	0	0	0	1.00	0	0	0.0	0.0	0.0	0.0	0.0
East of Kodiak	0	0	0	1.00	0	0	—	—	—	—	—
Total	40,649				40,639						

Note: Harvest is the number of chum salmon reported to have been harvested in the area stratum.

Note: Harvest rate is the area stratum harvest divided by the total run within the WASSIP area for a given reporting group, expressed as a percent.

Note: Harvest rates are calculated by dividing the harvest posterior by total run posterior distributions; therefore, mean harvest rate may not equal harvest rate calculated from numbers reported in the tables if distributions are highly skewed.

Note: Harvest rate for Asia and East of WASSIP were not calculated because they were not part of WASSIP plan.

^a Adjusted median; 1.00 times unadjusted median.

Table 20.—Southeastern District Mainland (SEDM) area, Commercial, Southeastern District, Alaska Peninsula Area, Westward Region, 2008, all strata. Reporting group-specific harvest and harvest rate estimates. Medians, 90% credibility intervals, the probability that reporting group harvest estimate is equal to zero ($P = 0$), means, and SDs are reported.

Reporting Group	Harvest = 72,263; 2 strata						Harvest Rate (%)				
	Median ^a	90% CI		$P = 0$	Mean	SD	Median	90% CI		Mean	SD
		5%	95%					5%	95%		
Asia	455	209	836	0.00	480	194	—	—	—	—	—
Kotzebue Sound	0	0	0	0.95	1	10	0.0	0.0	0.0	0.0	0.0
CWAK	258	91	547	0.00	280	143	0.0	0.0	0.0	0.0	0.0
Upper Yukon River	0	0	1	0.94	3	23	0.0	0.0	0.0	0.0	0.0
Northern District	0	0	70	0.89	15	76	0.0	0.0	0.0	0.0	0.0
Northwestern District	0	0	57	0.90	15	77	0.0	0.0	0.0	0.0	0.0
South Peninsula	56,632	51,856	61,369	0.00	56,520	2,896	2.5	0.6	7.8	3.1	2.3
Chignik/Kodiak	14,406	11,380	17,451	0.00	14,385	1,848	0.7	0.2	2.3	0.9	0.7
East of Kodiak	512	235	1,145	0.00	573	284	—	—	—	—	—
Total	72,263				72,272						

Note: Harvest is the number of chum salmon reported to have been harvested in the area stratum.

Note: Harvest rate is the area stratum harvest divided by the total run within the WASSIP area for a given reporting group, expressed as a percent.

Note: Harvest rates are calculated by dividing the harvest posterior by total run posterior distributions; therefore, mean harvest rate may not equal harvest rate calculated from numbers reported in the tables if distributions are highly skewed.

Note: Harvest rate for Asia and East of WASSIP were not calculated because they were not part of WASSIP plan.

^a Adjusted median; 1.00 times unadjusted median.

Table 21.—Southeastern District Mainland (SEDM) area, Commercial, Southeastern District, Alaska Peninsula Area, Westward Region, 2009, all strata. Reporting group-specific harvest and harvest rate estimates. Medians, 90% credibility intervals, the probability that reporting group harvest estimate is equal to zero ($P = 0$), means, and SDs are reported.

Reporting Group	Harvest = 150,921; 2 strata						Harvest Rate (%)				
	Median ^a	90% CI		$P = 0$	Mean	SD	Median	90% CI		Mean	SD
		5%	95%					5%	95%		
Asia	688	247	1,405	0.00	738	360	—	—	—	—	—
Kotzebue Sound	0	0	4	0.93	6	47	0.0	0.0	0.0	0.0	0.0
CWAK	892	434	1,593	0.00	936	358	0.0	0.0	0.0	0.0	0.0
Upper Yukon River	0	0	1	0.95	2	18	0.0	0.0	0.0	0.0	0.0
Northern District	0	0	362	0.87	52	221	0.0	0.0	0.0	0.0	0.0
Northwestern District	430	0	1,202	0.11	487	386	0.1	0.0	0.4	0.1	0.1
South Peninsula	117,426	107,159	128,301	0.00	117,417	6,431	4.3	1.3	9.1	4.7	2.4
Chignik/Kodiak	30,218	22,665	36,605	0.00	29,972	4,254	1.1	0.3	3.7	1.5	1.1
East of Kodiak	1,266	705	2,072	0.00	1,313	431	—	—	—	—	—
Total	150,920				150,923						

Note: Harvest is the number of chum salmon reported to have been harvested in the area stratum.

Note: Harvest rate is the area stratum harvest divided by the total run within the WASSIP area for a given reporting group, expressed as a percent.

Note: Harvest rates are calculated by dividing the harvest posterior by total run posterior distributions; therefore, mean harvest rate may not equal harvest rate calculated from numbers reported in the tables if distributions are highly skewed.

Note: Harvest rate for Asia and East of WASSIP were not calculated because they were not part of WASSIP plan.

^a Adjusted median; 1.00 times unadjusted median.

Table 22.–June, Shumagin Islands Section (statistical areas all 282-XX), Commercial, South Alaska Peninsula, Alaska Peninsula Area, Westward Region, 2007, all strata. Reporting group-specific harvest and harvest rate estimates. Medians, 90% credibility intervals, the probability that reporting group harvest estimate is equal to zero ($P = 0$), means, and SDs are reported.

Reporting Group	Harvest = 144,205; 5 strata						Harvest Rate (%)				
	Median ^a	90% CI		$P = 0$	Mean	SD	Median	90% CI		Mean	SD
		5%	95%					5%	95%		
Asia	37,650	34,792	40,442	0.00	37,573	1,717	–	–	–	–	–
Kotzebue Sound	1,027	378	2,053	0.00	1,096	519	0.1	0.0	0.4	0.1	0.1
CWAK	63,610	59,826	67,172	0.00	63,453	2,236	0.8	0.5	1.1	0.8	0.2
Upper Yukon River	1,551	899	2,339	0.00	1,573	439	0.1	0.1	0.2	0.1	0.0
Northern District	0	0	556	0.51	100	206	0.0	0.0	0.1	0.0	0.0
Northwestern District	784	378	1,327	0.00	808	292	0.1	0.0	0.2	0.1	0.1
South Peninsula	2,769	1,512	4,781	0.00	2,902	990	0.1	0.0	0.3	0.1	0.1
Chignik/Kodiak	4,202	2,281	5,876	0.00	4,152	1,072	0.2	0.0	0.7	0.2	0.2
East of Kodiak	32,613	29,932	35,272	0.00	32,552	1,621	–	–	–	–	–
Total	144,206				144,209						

Note: Harvest is the number of chum salmon reported to have been harvested in the area stratum.

Note: Harvest rate is the area stratum harvest divided by the total run within the WASSIP area for a given reporting group, expressed as a percent.

Note: Harvest rates are calculated by dividing the harvest posterior by total run posterior distributions; therefore, mean harvest rate may not equal harvest rate calculated from numbers reported in the tables if distributions are highly skewed.

Note: Harvest rate for Asia and East of WASSIP were not calculated because they were not part of WASSIP plan.

^a Adjusted median; 1.00 times unadjusted median.

Table 23.–June, Shumagin Islands Section (statistical areas all 282-XX), Commercial, South Alaska Peninsula, Alaska Peninsula Area, Westward Region, 2008, all strata. Reporting group-specific harvest and harvest rate estimates. Medians, 90% credibility intervals, the probability that reporting group harvest estimate is equal to zero ($P = 0$), means, and SDs are reported.

Reporting Group	Harvest = 126,483; 4 strata						Harvest Rate (%)				
	Median ^a	90% CI		$P = 0$	Mean	SD	Median	90% CI		Mean	SD
		5%	95%					5%	95%		
Asia	47,139	43,129	51,096	0.00	47,017	2,423	–	–	–	–	–
Kotzebue Sound	1,786	417	3,379	0.00	1,801	920	0.1	0.0	0.5	0.2	0.1
CWAK	48,814	44,480	53,070	0.00	48,682	2,613	0.8	0.6	1.1	0.8	0.2
Upper Yukon River	2,117	1,120	3,444	0.00	2,171	713	0.2	0.1	0.4	0.2	0.1
Northern District	1,104	340	2,395	0.00	1,195	627	0.1	0.0	0.5	0.2	0.2
Northwestern District	1,465	481	2,605	0.00	1,496	635	0.1	0.0	0.4	0.1	0.1
South Peninsula	6,174	4,638	7,958	0.00	6,204	1,012	0.3	0.1	0.9	0.3	0.3
Chignik/Kodiak	6,095	4,394	7,985	0.00	6,115	1,095	0.3	0.1	1.0	0.4	0.3
East of Kodiak	11,789	9,971	13,758	0.00	11,786	1,152	–	–	–	–	–
Total	126,483				126,467						

Note: Harvest is the number of chum salmon reported to have been harvested in the area stratum.

Note: Harvest rate is the area stratum harvest divided by the total run within the WASSIP area for a given reporting group, expressed as a percent.

Note: Harvest rates are calculated by dividing the harvest posterior by total run posterior distributions; therefore, mean harvest rate may not equal harvest rate calculated from numbers reported in the tables if distributions are highly skewed.

Note: Harvest rate for Asia and East of WASSIP were not calculated because they were not part of WASSIP plan.

^a Adjusted median; 1.00 times unadjusted median.

Table 24.–June, Shumagin Islands Section (statistical areas all 282-XX), Commercial, South Alaska Peninsula, Alaska Peninsula Area, Westward Region, 2009, all strata. Reporting group-specific harvest and harvest rate estimates. Medians, 90% credibility intervals, the probability that reporting group harvest estimate is equal to zero ($P = 0$), means, and SDs are reported.

Reporting Group	Harvest = 495,992; 5 strata						Harvest Rate (%)				
	Median ^a	90% CI		$P = 0$	Mean	SD	Median	90% CI		Mean	SD
		5%	95%					5%	95%		
Asia	147,058	135,167	158,429	0.00	146,563	7,076	–	–	–	–	–
Kotzebue Sound	2	0	3,221	0.46	634	1,179	0.0	0.0	0.5	0.1	0.2
CWAK	282,690	265,871	297,712	0.00	281,597	9,689	4.6	3.3	6.1	4.6	0.9
Upper Yukon River	1,030	0	2,874	0.07	1,176	899	0.2	0.0	0.5	0.2	0.2
Northern District	892	0	4,411	0.21	1,361	1,537	0.1	0.0	0.9	0.2	0.3
Northwestern District	18,900	14,061	24,141	0.00	18,917	3,075	3.9	1.1	10.4	4.6	2.9
South Peninsula	6,523	2,667	12,775	0.00	6,970	3,137	0.2	0.1	0.7	0.3	0.2
Chignik/Kodiak	13,403	7,727	18,770	0.00	13,305	3,363	0.5	0.1	1.7	0.6	0.5
East of Kodiak	25,493	20,873	30,567	0.00	25,508	2,958	–	–	–	–	–
Total	495,991				496,031						

Note: Harvest is the number of chum salmon reported to have been harvested in the area stratum.

Note: Harvest rate is the area stratum harvest divided by the total run within the WASSIP area for a given reporting group, expressed as a percent.

Note: Harvest rates are calculated by dividing the harvest posterior by total run posterior distributions; therefore, mean harvest rate may not equal harvest rate calculated from numbers reported in the tables if distributions are highly skewed.

Note: Harvest rate for Asia and East of WASSIP were not calculated because they were not part of WASSIP plan.

^a Adjusted median; 1.00 times unadjusted median.

Table 25.–June, Dolgoi Island area (statistical areas all 283-XX, and 284-00 through 284-42), Commercial, South Alaska Peninsula, Alaska Peninsula Area, Westward Region, 2007, all strata. Reporting group-specific harvest and harvest rate estimates. Medians, 90% credibility intervals, the probability that reporting group harvest estimate is equal to zero ($P = 0$), means, and SDs are reported.

Reporting Group	Harvest = 3,757; 1 stratum						Harvest Rate (%)				
	Median ^a	90% CI		$P = 0$	Mean	SD	Median	90% CI		Mean	SD
		5%	95%					5%	95%		
Asia	535	461	610	0.00	533	46	–	–	–	–	–
Kotzebue Sound	0	0	32	0.55	6	11	0.0	0.0	0.0	0.0	0.0
CWAK	2,899	2,641	3,142	0.00	2,884	152	0.0	0.0	0.0	0.0	0.0
Upper Yukon River	43	19	75	0.00	45	17	0.0	0.0	0.0	0.0	0.0
Northern District	12	4	50	0.00	18	15	0.0	0.0	0.0	0.0	0.0
Northwestern District	42	26	64	0.00	43	12	0.0	0.0	0.0	0.0	0.0
South Peninsula	3	0	16	0.09	4	5	0.0	0.0	0.0	0.0	0.0
Chignik/Kodiak	13	3	31	0.00	14	9	0.0	0.0	0.0	0.0	0.0
East of Kodiak	209	169	254	0.00	209	26	–	–	–	–	–
Total	3,756				3,756						

Note: Harvest is the number of chum salmon reported to have been harvested in the area stratum.

Note: Harvest rate is the area stratum harvest divided by the total run within the WASSIP area for a given reporting group, expressed as a percent.

Note: Harvest rates are calculated by dividing the harvest posterior by total run posterior distributions; therefore, mean harvest rate may not equal harvest rate calculated from numbers reported in the tables if distributions are highly skewed.

Note: Harvest rate for Asia and East of WASSIP were not calculated because they were not part of WASSIP plan.

^a Adjusted median; 1.01 times unadjusted median.

Table 26.–June, Dolgoi Island area (statistical areas all 283-XX, and 284-00 through 284-42), Commercial, South Alaska Peninsula, Alaska Peninsula Area, Westward Region, 2008, all strata. Reporting group-specific harvest and harvest rate estimates. Medians, 90% credibility intervals, the probability that reporting group harvest estimate is equal to zero ($P = 0$), means, and SDs are reported.

Reporting Group	Harvest = 3,668; 1 stratum						Harvest Rate (%)				
	Median ^a	90% CI		$P = 0$	Mean	SD	Median	90% CI		Mean	SD
		5%	95%					5%	95%		
Asia	856	759	952	0.00	853	59	–	–	–	–	–
Kotzebue Sound	32	12	60	0.00	34	15	0.0	0.0	0.0	0.0	0.0
CWAK	2,190	1,988	2,384	0.00	2,180	121	0.0	0.0	0.0	0.0	0.0
Upper Yukon River	64	39	93	0.00	65	16	0.0	0.0	0.0	0.0	0.0
Northern District	51	23	100	0.00	55	24	0.0	0.0	0.0	0.0	0.0
Northwestern District	155	116	197	0.00	155	25	0.0	0.0	0.0	0.0	0.0
South Peninsula	17	3	70	0.01	25	22	0.0	0.0	0.0	0.0	0.0
Chignik/Kodiak	104	51	149	0.00	102	30	0.0	0.0	0.0	0.0	0.0
East of Kodiak	199	161	240	0.00	199	24	–	–	–	–	–
Total	3,668				3,668						

Note: Harvest is the number of chum salmon reported to have been harvested in the area stratum.

Note: Harvest rate is the area stratum harvest divided by the total run within the WASSIP area for a given reporting group, expressed as a percent.

Note: Harvest rates are calculated by dividing the harvest posterior by total run posterior distributions; therefore, mean harvest rate may not equal harvest rate calculated from numbers reported in the tables if distributions are highly skewed.

Note: Harvest rate for Asia and East of WASSIP were not calculated because they were not part of WASSIP plan.

^a Adjusted median; 1.01 times unadjusted median.

Table 27.–June, Dolgoi Island area (statistical areas all 283-XX, and 284-00 through 284-42), Commercial, South Alaska Peninsula, Alaska Peninsula Area, Westward Region, 2009, all strata. Reporting group-specific harvest and harvest rate estimates. Medians, 90% credibility intervals, the probability that reporting group harvest estimate is equal to zero ($P = 0$), means, and SDs are reported.

Reporting Group	Harvest = 6,248; 1 stratum						Harvest Rate (%)				
	Median ^a	90% CI		$P = 0$	Mean	SD	Median	90% CI		Mean	SD
		5%	95%					5%	95%		
Asia	1,035	911	1,163	0.00	1,032	77	–	–	–	–	–
Kotzebue Sound	102	48	170	0.00	104	37	0.0	0.0	0.0	0.0	0.0
CWAK	4,249	3,869	4,618	0.00	4,233	228	0.1	0.0	0.1	0.1	0.0
Upper Yukon River	9	0	53	0.28	15	18	0.0	0.0	0.0	0.0	0.0
Northern District	131	75	212	0.00	135	42	0.0	0.0	0.1	0.0	0.0
Northwestern District	396	324	474	0.00	396	46	0.1	0.0	0.2	0.1	0.1
South Peninsula	43	21	73	0.00	45	17	0.0	0.0	0.0	0.0	0.0
Chignik/Kodiak	102	56	157	0.00	103	31	0.0	0.0	0.0	0.0	0.0
East of Kodiak	182	138	234	0.00	183	29	–	–	–	–	–
Total	6,249				6,246						

Note: Harvest is the number of chum salmon reported to have been harvested in the area stratum.

Note: Harvest rate is the area stratum harvest divided by the total run within the WASSIP area for a given reporting group, expressed as a percent.

Note: Harvest rates are calculated by dividing the harvest posterior by total run posterior distributions; therefore, mean harvest rate may not equal harvest rate calculated from numbers reported in the tables if distributions are highly skewed.

Note: Harvest rate for Asia and East of WASSIP were not calculated because they were not part of WASSIP plan.

^a Adjusted median; 1.01 times unadjusted median.

Table 28.—June, Ikatan area (statistical area 284-45 through 284-99), Commercial, South Alaska Peninsula, Alaska Peninsula Area, Westward Region, 2007, all strata. Reporting group-specific harvest and harvest rate estimates. Medians, 90% credibility intervals, the probability that reporting group harvest estimate is equal to zero ($P = 0$), means, and SDs are reported.

Reporting Group	Harvest = 43,806; 5 strata						Harvest Rate (%)				
	Median ^a	90% CI		$P = 0$	Mean	SD	Median	90% CI		Mean	SD
		5%	95%					5%	95%		
Asia	7,663	6,890	8,454	0.00	7,653	476	—	—	—	—	—
Kotzebue Sound	63	0	203	0.14	74	74	0.0	0.0	0.0	0.0	0.0
CWAK	30,389	28,760	31,911	0.00	30,320	957	0.4	0.2	0.5	0.4	0.1
Upper Yukon River	861	531	1,272	0.00	875	226	0.1	0.0	0.1	0.1	0.0
Northern District	217	92	432	0.00	233	106	0.0	0.0	0.1	0.0	0.0
Northwestern District	417	279	595	0.00	423	97	0.0	0.0	0.1	0.0	0.0
South Peninsula	358	146	625	0.00	368	145	0.0	0.0	0.0	0.0	0.0
Chignik/Kodiak	306	147	551	0.00	321	126	0.0	0.0	0.1	0.0	0.0
East of Kodiak	3,532	3,020	4,083	0.00	3,534	323	—	—	—	—	—
Total	43,806				43,801						

Note: Harvest is the number of chum salmon reported to have been harvested in the area stratum.

Note: Harvest rate is the area stratum harvest divided by the total run within the WASSIP area for a given reporting group, expressed as a percent.

Note: Harvest rates are calculated by dividing the harvest posterior by total run posterior distributions; therefore, mean harvest rate may not equal harvest rate calculated from numbers reported in the tables if distributions are highly skewed.

Note: Harvest rate for Asia and East of WASSIP were not calculated because they were not part of WASSIP plan.

^a Adjusted median; 1.00 times unadjusted median.

Table 29.—June, Ikatan area (statistical area 284-45 through 284-99), Commercial, South Alaska Peninsula, Alaska Peninsula Area, Westward Region, 2008, all strata. Reporting group-specific harvest and harvest rate estimates. Medians, 90% credibility intervals, the probability that reporting group harvest estimate is equal to zero ($P = 0$), means, and SDs are reported.

Reporting Group	Harvest = 35,444; 5 strata						Harvest Rate (%)				
	Median ^a	90% CI		$P = 0$	Mean	SD	Median	90% CI		Mean	SD
		5%	95%					5%	95%		
Asia	12,337	11,234	13,319	0.00	12,262	634	—	—	—	—	—
Kotzebue Sound	25	0	255	0.30	64	99	0.0	0.0	0.0	0.0	0.0
CWAK	17,870	16,567	18,983	0.00	17,755	734	0.3	0.2	0.4	0.3	0.1
Upper Yukon River	323	119	636	0.00	342	160	0.0	0.0	0.1	0.0	0.0
Northern District	556	342	959	0.00	591	194	0.1	0.0	0.2	0.1	0.1
Northwestern District	1,770	1,353	2,232	0.00	1,770	268	0.1	0.0	0.4	0.2	0.1
South Peninsula	170	21	484	0.00	199	149	0.0	0.0	0.0	0.0	0.0
Chignik/Kodiak	77	0	488	0.15	146	168	0.0	0.0	0.0	0.0	0.0
East of Kodiak	2,316	1,836	2,838	0.00	2,313	305	—	—	—	—	—
Total	35,444				35,442						

Note: Harvest is the number of chum salmon reported to have been harvested in the area stratum.

Note: Harvest rate is the area stratum harvest divided by the total run within the WASSIP area for a given reporting group, expressed as a percent.

Note: Harvest rates are calculated by dividing the harvest posterior by total run posterior distributions; therefore, mean harvest rate may not equal harvest rate calculated from numbers reported in the tables if distributions are highly skewed.

Note: Harvest rate for Asia and East of WASSIP were not calculated because they were not part of WASSIP plan.

^a Adjusted median; 1.01 times unadjusted median.

Table 30.–June, Ikatan area (statistical area 284-45 through 284-99), Commercial, South Alaska Peninsula, Alaska Peninsula Area, Westward Region, 2009, all strata. Reporting group-specific harvest and harvest rate estimates. Medians, 90% credibility intervals, the probability that reporting group harvest estimate is equal to zero ($P = 0$), means, and SDs are reported.

Reporting Group	Harvest = 75,099; 5 strata						Harvest Rate (%)				
	Median ^a	90% CI		$P = 0$	Mean	SD	Median	90% CI		Mean	SD
		5%	95%					5%	95%		
Asia	11,388	10,063	12,722	0.00	11,357	810	–	–	–	–	–
Kotzebue Sound	0	0	307	0.57	55	117	0.0	0.0	0.0	0.0	0.0
CWAK	54,198	51,040	56,992	0.00	53,983	1,808	0.9	0.6	1.2	0.9	0.2
Upper Yukon River	59	3	514	0.02	130	202	0.0	0.0	0.1	0.0	0.0
Northern District	1,722	1,029	2,557	0.00	1,744	465	0.2	0.0	0.8	0.3	0.2
Northwestern District	4,147	3,294	5,085	0.00	4,151	544	0.9	0.2	2.3	1.0	0.6
South Peninsula	187	34	665	0.00	245	205	0.0	0.0	0.0	0.0	0.0
Chignik/Kodiak	666	214	1,282	0.00	692	333	0.0	0.0	0.1	0.0	0.0
East of Kodiak	2,732	2,065	3,495	0.00	2,742	437	–	–	–	–	–
Total	75,099				75,099						

Note: Harvest is the number of chum salmon reported to have been harvested in the area stratum.

Note: Harvest rate is the area stratum harvest divided by the total run within the WASSIP area for a given reporting group, expressed as a percent.

Note: Harvest rates are calculated by dividing the harvest posterior by total run posterior distributions; therefore, mean harvest rate may not equal harvest rate calculated from numbers reported in the tables if distributions are highly skewed.

Note: Harvest rate for Asia and East of WASSIP were not calculated because they were not part of WASSIP plan.

^a Adjusted median; 1.00 times unadjusted median.

Table 31.–June, Unimak District, Commercial, South Alaska Peninsula, Alaska Peninsula Area, Westward Region, 2007, all strata. Reporting group-specific harvest and harvest rate estimates. Medians, 90% credibility intervals, the probability that reporting group harvest estimate is equal to zero ($P = 0$), means, and SDs are reported.

Reporting Group	Harvest = 105,771; 5 strata						Harvest Rate (%)				
	Median ^a	90% CI		$P = 0$	Mean	SD	Median	90% CI		Mean	SD
		5%	95%					5%	95%		
Asia	15,052	13,238	16,880	0.00	15,001	1,112	–	–	–	–	–
Kotzebue Sound	5	0	905	0.40	173	324	0.0	0.0	0.1	0.0	0.1
CWAK	81,637	76,835	85,684	0.00	81,209	2,694	1.0	0.6	1.4	1.0	0.2
Upper Yukon River	1,229	526	2,118	0.00	1,259	485	0.1	0.0	0.2	0.1	0.0
Northern District	332	124	1,411	0.00	510	435	0.0	0.0	0.3	0.1	0.1
Northwestern District	1,192	746	1,804	0.00	1,218	325	0.1	0.0	0.3	0.1	0.1
South Peninsula	78	8	446	0.01	127	151	0.0	0.0	0.0	0.0	0.0
Chignik/Kodiak	358	97	869	0.00	402	245	0.0	0.0	0.1	0.0	0.0
East of Kodiak	5,887	4,802	7,083	0.00	5,888	695	–	–	–	–	–
Total	105,770				105,787						

Note: Harvest is the number of chum salmon reported to have been harvested in the area stratum.

Note: Harvest rate is the area stratum harvest divided by the total run within the WASSIP area for a given reporting group, expressed as a percent.

Note: Harvest rates are calculated by dividing the harvest posterior by total run posterior distributions; therefore, mean harvest rate may not equal harvest rate calculated from numbers reported in the tables if distributions are highly skewed.

Note: Harvest rate for Asia and East of WASSIP were not calculated because they were not part of WASSIP plan.

^a Adjusted median; 1.01 times unadjusted median.

Table 32.–June, Unimak District, Commercial, South Alaska Peninsula, Alaska Peninsula Area, Westward Region, 2008, all strata. Reporting group-specific harvest and harvest rate estimates. Medians, 90% credibility intervals, the probability that reporting group harvest estimate is equal to zero ($P = 0$), means, and SDs are reported.

Reporting Group	Harvest = 245,337; 5 strata						Harvest Rate (%)				
	Median ^a	90% CI		$P = 0$	Mean	SD	Median	90% CI		Mean	SD
		5%	95%					5%	95%		
Asia	57,225	52,163	62,092	0.00	57,039	3,019	–	–	–	–	–
Kotzebue Sound	2,177	797	4,000	0.00	2,254	981	0.2	0.0	0.6	0.2	0.2
CWAK	146,392	137,855	154,056	0.00	145,847	4,919	2.4	1.7	3.3	2.5	0.5
Upper Yukon River	4,304	2,639	6,199	0.00	4,337	1,085	0.5	0.3	0.7	0.5	0.1
Northern District	3,461	1,563	6,700	0.00	3,691	1,576	0.4	0.1	1.4	0.5	0.4
Northwestern District	10,336	7,795	13,063	0.00	10,340	1,599	0.8	0.2	2.6	1.0	0.8
South Peninsula	1,165	199	4,705	0.01	1,680	1,453	0.0	0.0	0.3	0.1	0.1
Chignik/Kodiak	6,958	3,444	9,945	0.00	6,823	1,966	0.3	0.1	1.1	0.4	0.4
East of Kodiak	13,319	10,943	15,878	0.00	13,321	1,499	–	–	–	–	–
Total	245,337				245,332						

Note: Harvest is the number of chum salmon reported to have been harvested in the area stratum.

Note: Harvest rate is the area stratum harvest divided by the total run within the WASSIP area for a given reporting group, expressed as a percent.

Note: Harvest rates are calculated by dividing the harvest posterior by total run posterior distributions; therefore, mean harvest rate may not equal harvest rate calculated from numbers reported in the tables if distributions are highly skewed.

Note: Harvest rate for Asia and East of WASSIP were not calculated because they were not part of WASSIP plan.

^a Adjusted median; 1.00 times unadjusted median.

Table 33.—June, Unimak District, Commercial, South Alaska Peninsula, Alaska Peninsula Area, Westward Region, 2009, all strata. Reporting group-specific harvest and harvest rate estimates. Medians, 90% credibility intervals, the probability that reporting group harvest estimate is equal to zero ($P = 0$), means, and SDs are reported.

Reporting Group	Harvest = 119,436; 5 strata						Harvest Rate (%)				
	Median ^a	90% CI		$P = 0$	Mean	SD	Median	90% CI		Mean	SD
		5%	95%					5%	95%		
Asia	19,796	17,821	21,762	0.00	19,740	1,200	—	—	—	—	—
Kotzebue Sound	1,948	927	3,263	0.00	1,997	713	0.2	0.1	0.6	0.3	0.2
CWAK	81,211	76,657	85,321	0.00	80,927	2,633	1.3	0.9	1.8	1.3	0.3
Upper Yukon River	168	0	1,006	0.22	290	350	0.0	0.0	0.2	0.1	0.1
Northern District	2,491	1,436	4,037	0.00	2,576	804	0.3	0.1	1.1	0.4	0.4
Northwestern District	7,569	6,276	8,964	0.00	7,569	820	1.6	0.4	4.1	1.8	1.2
South Peninsula	826	398	1,398	0.00	853	314	0.0	0.0	0.1	0.0	0.0
Chignik/Kodiak	1,948	1,074	2,991	0.00	1,974	587	0.1	0.0	0.3	0.1	0.1
East of Kodiak	3,481	2,668	4,429	0.00	3,498	538	—	—	—	—	—
Total	119,438				119,424						

Note: Harvest is the number of chum salmon reported to have been harvested in the area stratum.

Note: Harvest rate is the area stratum harvest divided by the total run within the WASSIP area for a given reporting group, expressed as a percent.

Note: Harvest rates are calculated by dividing the harvest posterior by total run posterior distributions; therefore, mean harvest rate may not equal harvest rate calculated from numbers reported in the tables if distributions are highly skewed.

Note: Harvest rate for Asia and East of WASSIP were not calculated because they were not part of WASSIP plan.

^a Adjusted median; 1.00 times unadjusted median.

Table 34.—Post-June, Shumagin Islands Section, Commercial, South Alaska Peninsula, Alaska Peninsula Area, Westward Region, 2007, all strata. Reporting group-specific harvest and harvest rate estimates. Medians, 90% credibility intervals, the probability that reporting group harvest estimate is equal to zero ($P = 0$), means, and SDs are reported.

Reporting Group	Harvest = 167,211; 4 strata						Harvest Rate (%)				
	Median ^a	90% CI		$P = 0$	Mean	SD	Median	90% CI		Mean	SD
		5%	95%					5%	95%		
Asia	38,713	34,941	42,461	0.00	38,621	2,292	—	—	—	—	—
Kotzebue Sound	284	0	1,229	0.29	391	429	0.0	0.0	0.2	0.1	0.1
CWAK	10,790	8,743	13,016	0.00	10,800	1,295	0.1	0.1	0.2	0.1	0.0
Upper Yukon River	340	0	1,070	0.10	407	343	0.0	0.0	0.1	0.0	0.0
Northern District	1,591	556	2,985	0.00	1,656	751	0.2	0.0	0.7	0.3	0.2
Northwestern District	6,619	4,557	9,160	0.00	6,689	1,403	0.5	0.1	1.6	0.6	0.5
South Peninsula	58,699	51,568	65,658	0.00	58,537	4,291	1.8	0.5	6.3	2.4	1.9
Chignik/Kodiak	36,063	29,324	42,875	0.00	35,995	4,111	1.5	0.3	5.6	2.0	1.9
East of Kodiak	14,112	11,949	16,475	0.00	14,119	1,375	—	—	—	—	—
Total	167,211				167,215						

Note: Harvest is the number of chum salmon reported to have been harvested in the area stratum.

Note: Harvest rate is the area stratum harvest divided by the total run within the WASSIP area for a given reporting group, expressed as a percent.

Note: Harvest rates are calculated by dividing the harvest posterior by total run posterior distributions; therefore, mean harvest rate may not equal harvest rate calculated from numbers reported in the tables if distributions are highly skewed.

Note: Harvest rate for Asia and East of WASSIP were not calculated because they were not part of WASSIP plan.

^a Adjusted median; 1.00 times unadjusted median.

Table 35.—Post-June, Shumagin Islands Section, Commercial, South Alaska Peninsula, Alaska Peninsula Area, Westward Region, 2008, all strata. Reporting group-specific harvest and harvest rate estimates. Medians, 90% credibility intervals, the probability that reporting group harvest estimate is equal to zero ($P = 0$), means, and SDs are reported.

Reporting Group	Harvest = 138,413; 4 strata						Harvest Rate (%)				
	Median ^a	90% CI		$P = 0$	Mean	SD	Median	90% CI		Mean	SD
		5%	95%					5%	95%		
Asia	33,159	30,078	36,130	0.00	33,049	1,840	—	—	—	—	—
Kotzebue Sound	0	0	983	0.54	205	354	0.0	0.0	0.1	0.0	0.0
CWAK	4,939	3,693	6,293	0.00	4,945	791	0.1	0.1	0.1	0.1	0.0
Upper Yukon River	31	0	278	0.31	72	101	0.0	0.0	0.0	0.0	0.0
Northern District	950	433	1,863	0.00	1,019	449	0.1	0.0	0.4	0.1	0.1
Northwestern District	6,465	4,590	8,491	0.00	6,474	1,188	0.5	0.1	1.6	0.6	0.5
South Peninsula	40,709	34,835	46,931	0.00	40,665	3,677	1.8	0.5	5.6	2.2	1.7
Chignik/Kodiak	34,235	27,803	40,254	0.00	34,080	3,774	1.7	0.4	5.4	2.2	1.6
East of Kodiak	17,924	15,443	20,476	0.00	17,895	1,536	—	—	—	—	—
Total	138,412				138,404						

Note: Harvest is the number of chum salmon reported to have been harvested in the area stratum.

Note: Harvest rate is the area stratum harvest divided by the total run within the WASSIP area for a given reporting group, expressed as a percent.

Note: Harvest rates are calculated by dividing the harvest posterior by total run posterior distributions; therefore, mean harvest rate may not equal harvest rate calculated from numbers reported in the tables if distributions are highly skewed.

Note: Harvest rate for Asia and East of WASSIP were not calculated because they were not part of WASSIP plan.

^a Adjusted median; 1.00 times unadjusted median.

Table 36.—Post-June, Shumagin Islands Section, Commercial, South Alaska Peninsula, Alaska Peninsula Area, Westward Region, 2009, all strata. Reporting group-specific harvest and harvest rate estimates. Medians, 90% credibility intervals, the probability that reporting group harvest estimate is equal to zero ($P = 0$), means, and SDs are reported.

Reporting Group	Harvest = 223,809; 4 strata						Harvest Rate (%)				
	Median ^a	90% CI		$P = 0$	Mean	SD	Median	90% CI		Mean	SD
		5%	95%					5%	95%		
Asia	16,473	14,296	18,816	0.00	16,474	1,375	—	—	—	—	—
Kotzebue Sound	938	406	1,665	0.00	973	387	0.1	0.0	0.3	0.1	0.1
CWAK	16,856	14,735	19,090	0.00	16,850	1,326	0.3	0.2	0.4	0.3	0.1
Upper Yukon River	100	6	775	0.00	217	261	0.0	0.0	0.1	0.0	0.0
Northern District	4,850	3,303	6,622	0.00	4,884	1,014	0.6	0.1	2.1	0.8	0.6
Northwestern District	6,528	4,859	8,523	0.00	6,578	1,119	1.4	0.4	3.6	1.6	1.0
South Peninsula	142,448	130,493	154,219	0.00	142,202	7,218	5.3	1.6	11.1	5.7	2.9
Chignik/Kodiak	30,799	22,901	39,002	0.00	30,809	4,881	1.2	0.3	3.8	1.5	1.2
East of Kodiak	4,816	3,437	6,529	0.00	4,869	944	—	—	—	—	—
Total	223,808				223,856						

Note: Harvest is the number of chum salmon reported to have been harvested in the area stratum.

Note: Harvest rate is the area stratum harvest divided by the total run within the WASSIP area for a given reporting group, expressed as a percent.

Note: Harvest rates are calculated by dividing the harvest posterior by total run posterior distributions; therefore, mean harvest rate may not equal harvest rate calculated from numbers reported in the tables if distributions are highly skewed.

Note: Harvest rate for Asia and East of WASSIP were not calculated because they were not part of WASSIP plan.

^a Adjusted median; 1.00 times unadjusted median.

Table 37.—Post-June, Dolgoi Island area (statistical areas all 283-XX, and 284-00 through 284-42), Commercial, South Alaska Peninsula, Alaska Peninsula Area, Westward Region, 2007, all strata. Reporting group-specific harvest and harvest rate estimates. Medians, 90% credibility intervals, the probability that reporting group harvest estimate is equal to zero ($P = 0$), means, and SDs are reported.

Reporting Group	Harvest = 128,562; 2 strata						Harvest Rate (%)				
	Median ^a	90% CI		$P = 0$	Mean	SD	Median	90% CI		Mean	SD
		5%	95%					5%	95%		
Asia	1,467	928	2,165	0.00	1,493	380	—	—	—	—	—
Kotzebue Sound	0	0	0	0.95	2	15	0.0	0.0	0.0	0.0	0.0
CWAK	713	366	1,219	0.00	740	262	0.0	0.0	0.0	0.0	0.0
Upper Yukon River	0	0	0	0.95	1	10	0.0	0.0	0.0	0.0	0.0
Northern District	41	0	327	0.34	88	118	0.0	0.0	0.1	0.0	0.0
Northwestern District	128	0	859	0.42	251	312	0.0	0.0	0.1	0.0	0.0
South Peninsula	109,655	100,891	118,329	0.00	109,465	5,298	3.4	0.8	11.7	4.5	3.6
Chignik/Kodiak	12,688	7,938	17,146	0.00	12,618	2,783	0.5	0.1	2.0	0.7	0.7
East of Kodiak	3,870	2,760	5,207	0.00	3,904	748	—	—	—	—	—
Total	128,562				128,562						

Note: Harvest is the number of chum salmon reported to have been harvested in the area stratum.

Note: Harvest rate is the area stratum harvest divided by the total run within the WASSIP area for a given reporting group, expressed as a percent.

Note: Harvest rates are calculated by dividing the harvest posterior by total run posterior distributions; therefore, mean harvest rate may not equal harvest rate calculated from numbers reported in the tables if distributions are highly skewed.

Note: Harvest rate for Asia and East of WASSIP were not calculated because they were not part of WASSIP plan.

^a Adjusted median; 1.00 times unadjusted median.

Table 38.—Post-June, Dolgoi Island area (statistical areas all 283-XX, and 284-00 through 284-42), Commercial, South Alaska Peninsula, Alaska Peninsula Area, Westward Region, 2008, all strata. Reporting group-specific harvest and harvest rate estimates. Medians, 90% credibility intervals, the probability that reporting group harvest estimate is equal to zero ($P = 0$), means, and SDs are reported.

Reporting Group	Harvest = 96,600; 2 strata						Harvest Rate (%)				
	Median ^a	90% CI		$P = 0$	Mean	SD	Median	90% CI		Mean	SD
		5%	95%					5%	95%		
Asia	4,152	3,172	5,219	0.00	4,138	626	—	—	—	—	—
Kotzebue Sound	0	0	1	0.95	1	14	0.0	0.0	0.0	0.0	0.0
CWAK	1,762	1,135	2,519	0.00	1,774	423	0.0	0.0	0.0	0.0	0.0
Upper Yukon River	0	0	143	0.74	22	60	0.0	0.0	0.0	0.0	0.0
Northern District	43	0	1,903	0.44	522	694	0.0	0.0	0.3	0.1	0.1
Northwestern District	282	0	1,033	0.34	347	369	0.0	0.0	0.1	0.0	0.1
South Peninsula	87,569	80,404	92,921	0.00	86,646	3,804	3.8	1.0	11.9	4.8	3.6
Chignik/Kodiak	2,411	188	6,580	0.01	2,754	1,874	0.1	0.0	0.6	0.2	0.2
East of Kodiak	381	144	788	0.00	410	202	—	—	—	—	—
Total	96,600				96,614						

Note: Harvest is the number of chum salmon reported to have been harvested in the area stratum.

Note: Harvest rate is the area stratum harvest divided by the total run within the WASSIP area for a given reporting group, expressed as a percent.

Note: Harvest rates are calculated by dividing the harvest posterior by total run posterior distributions; therefore, mean harvest rate may not equal harvest rate calculated from numbers reported in the tables if distributions are highly skewed.

Note: Harvest rate for Asia and East of WASSIP were not calculated because they were not part of WASSIP plan.

^a Adjusted median; 1.01 times unadjusted median.

Table 39.—Post-June, Dolgoi Island area (statistical areas all 283-XX, and 284-00 through 284-42), Commercial, South Alaska Peninsula, Alaska Peninsula Area, Westward Region, 2009, all strata. Reporting group-specific harvest and harvest rate estimates. Medians, 90% credibility intervals, the probability that reporting group harvest estimate is equal to zero ($P = 0$), means, and SDs are reported.

Reporting Group	Harvest = 423,007; 2 strata						Harvest Rate (%)				
	Median ^a	90% CI		$P = 0$	Mean	SD	Median	90% CI		Mean	SD
		5%	95%					5%	95%		
Asia	464	196	878	0.00	490	211	—	—	—	—	—
Kotzebue Sound	0	0	65	0.89	12	58	0.0	0.0	0.0	0.0	0.0
CWAK	510	231	915	0.00	532	211	0.0	0.0	0.0	0.0	0.0
Upper Yukon River	44	0	204	0.07	66	69	0.0	0.0	0.0	0.0	0.0
Northern District	0	0	273	0.80	40	147	0.0	0.0	0.0	0.0	0.0
Northwestern District	0	0	277	0.82	35	110	0.0	0.0	0.1	0.0	0.0
South Peninsula	412,805	380,365	446,349	0.00	412,612	20,052	15.3	4.7	32.0	16.4	8.4
Chignik/Kodiak	8,855	5,782	12,105	0.00	8,881	1,924	0.3	0.1	1.1	0.4	0.3
East of Kodiak	330	137	673	0.00	357	170	—	—	—	—	—
Total	423,008				423,025						

Note: Harvest is the number of chum salmon reported to have been harvested in the area stratum.

Note: Harvest rate is the area stratum harvest divided by the total run within the WASSIP area for a given reporting group, expressed as a percent.

Note: Harvest rates are calculated by dividing the harvest posterior by total run posterior distributions; therefore, mean harvest rate may not equal harvest rate calculated from numbers reported in the tables if distributions are highly skewed.

Note: Harvest rate for Asia and East of WASSIP were not calculated because they were not part of WASSIP plan.

^a Adjusted median; 1.00 times unadjusted median.

Table 40.—Post-June, Ikatan area (statistical area 284-45 through 284-99), Commercial, South Alaska Peninsula, Alaska Peninsula Area, Westward Region, 2007, all strata. Reporting group-specific harvest and harvest rate estimates. Medians, 90% credibility intervals, the probability that reporting group harvest estimate is equal to zero ($P = 0$), means, and SDs are reported.

Reporting Group	Harvest = 37,195; 2 strata						Harvest Rate (%)				
	Median ^a	90% CI		$P = 0$	Mean	SD	Median	90% CI		Mean	SD
		5%	95%					5%	95%		
Asia	555	423	709	0.00	558	87	—	—	—	—	—
Kotzebue Sound	0	0	58	0.75	8	22	0.0	0.0	0.0	0.0	0.0
CWAK	634	473	828	0.00	638	108	0.0	0.0	0.0	0.0	0.0
Upper Yukon River	5	0	60	0.45	16	22	0.0	0.0	0.0	0.0	0.0
Northern District	660	423	916	0.00	662	150	0.1	0.0	0.3	0.1	0.1
Northwestern District	935	694	1,192	0.00	937	152	0.1	0.0	0.2	0.1	0.1
South Peninsula	33,802	31,059	36,613	0.00	33,761	1,689	1.1	0.3	3.6	1.4	1.1
Chignik/Kodiak	448	229	714	0.00	456	149	0.0	0.0	0.1	0.0	0.0
East of Kodiak	156	87	253	0.00	161	51	—	—	—	—	—
Total	37,195				37,197						

Note: Harvest is the number of chum salmon reported to have been harvested in the area stratum.

Note: Harvest rate is the area stratum harvest divided by the total run within the WASSIP area for a given reporting group, expressed as a percent.

Note: Harvest rates are calculated by dividing the harvest posterior by total run posterior distributions; therefore, mean harvest rate may not equal harvest rate calculated from numbers reported in the tables if distributions are highly skewed.

Note: Harvest rate for Asia and East of WASSIP were not calculated because they were not part of WASSIP plan.

^a Adjusted median; 1.00 times unadjusted median.

Table 41.—Post-June, Ikatan area (statistical area 284-45 through 284-99), Commercial, South Alaska Peninsula, Alaska Peninsula Area, Westward Region, 2008, all strata. Reporting group-specific harvest and harvest rate estimates. Medians, 90% credibility intervals, the probability that reporting group harvest estimate is equal to zero ($P = 0$), means, and SDs are reported.

Reporting Group	Harvest = 56,727; 2 strata						Harvest Rate (%)				
	Median ^a	90% CI		$P = 0$	Mean	SD	Median	90% CI		Mean	SD
		5%	95%					5%	95%		
Asia	3,540	3,024	4,067	0.00	3,529	317	—	—	—	—	—
Kotzebue Sound	259	110	469	0.00	269	111	0.0	0.0	0.1	0.0	0.0
CWAK	1,128	803	1,491	0.00	1,131	209	0.0	0.0	0.0	0.0	0.0
Upper Yukon River	149	61	289	0.00	158	71	0.0	0.0	0.0	0.0	0.0
Northern District	372	81	867	0.00	408	250	0.0	0.0	0.2	0.1	0.1
Northwestern District	1,349	905	1,852	0.00	1,356	289	0.1	0.0	0.3	0.1	0.1
South Peninsula	49,360	45,420	53,051	0.00	49,144	2,315	2.1	0.5	6.8	2.7	2.0
Chignik/Kodiak	188	0	1,097	0.23	348	393	0.0	0.0	0.1	0.0	0.0
East of Kodiak	380	227	586	0.00	389	110	—	—	—	—	—
Total	56,725				56,732						

Note: Harvest is the number of chum salmon reported to have been harvested in the area stratum.

Note: Harvest rate is the area stratum harvest divided by the total run within the WASSIP area for a given reporting group, expressed as a percent.

Note: Harvest rates are calculated by dividing the harvest posterior by total run posterior distributions; therefore, mean harvest rate may not equal harvest rate calculated from numbers reported in the tables if distributions are highly skewed.

Note: Harvest rate for Asia and East of WASSIP were not calculated because they were not part of WASSIP plan.

^a Adjusted median; 1.01 times unadjusted median.

Table 42.—Post-June, Ikatan area (statistical area 284-45 through 284-99), Commercial, South Alaska Peninsula, Alaska Peninsula Area, Westward Region, 2009, all strata. Reporting group-specific harvest and harvest rate estimates. Medians, 90% credibility intervals, the probability that reporting group harvest estimate is equal to zero ($P = 0$), means, and SDs are reported.

Reporting Group	Harvest = 178,336; 2 strata						Harvest Rate (%)				
	Median ^a	90% CI		$P = 0$	Mean	SD	Median	90% CI		Mean	SD
		5%	95%					5%	95%		
Asia	609	393	885	0.00	619	151	—	—	—	—	—
Kotzebue Sound	163	0	413	0.08	179	127	0.0	0.0	0.1	0.0	0.0
CWAK	2,421	1,882	3,005	0.00	2,423	341	0.0	0.0	0.1	0.0	0.0
Upper Yukon River	0	0	29	0.88	5	21	0.0	0.0	0.0	0.0	0.0
Northern District	2,137	1,398	3,017	0.00	2,157	493	0.3	0.1	0.9	0.3	0.3
Northwestern District	2,785	2,004	3,805	0.00	2,825	553	0.6	0.2	1.6	0.7	0.5
South Peninsula	169,277	155,544	182,875	0.00	168,856	8,331	6.2	1.9	13.1	6.7	3.5
Chignik/Kodiak	782	9	3,378	0.00	1,164	1,184	0.0	0.0	0.2	0.1	0.1
East of Kodiak	162	68	317	0.00	173	78	—	—	—	—	—
Total	178,336				178,401						

Note: Harvest is the number of chum salmon reported to have been harvested in the area stratum.

Note: Harvest rate is the area stratum harvest divided by the total run within the WASSIP area for a given reporting group, expressed as a percent.

Note: Harvest rates are calculated by dividing the harvest posterior by total run posterior distributions; therefore, mean harvest rate may not equal harvest rate calculated from numbers reported in the tables if distributions are highly skewed.

Note: Harvest rate for Asia and East of WASSIP were not calculated because they were not part of WASSIP plan.

^a Adjusted median; 1.00 times unadjusted median.

Table 43.—Bear River Section, Commercial, Northern District, Alaska Peninsula Area, Westward Region, 2007, all strata. Reporting group-specific harvest and harvest rate estimates. Medians, 90% credibility intervals, the probability that reporting group harvest estimate is equal to zero ($P = 0$), means, and SDs are reported.

Reporting Group	Harvest = 29,508; 2 strata						Harvest Rate (%)				
	Median ^a	90% CI		$P = 0$	Mean	SD	Median	90% CI		Mean	SD
		5%	95%					5%	95%		
Asia	28	0	271	0.35	69	98	—	—	—	—	—
Kotzebue Sound	0	0	37	0.90	9	49	0.0	0.0	0.0	0.0	0.0
CWAK	3	0	268	0.44	58	102	0.0	0.0	0.0	0.0	0.0
Upper Yukon River	0	0	0	0.96	1	8	0.0	0.0	0.0	0.0	0.0
Northern District	29,102	26,871	31,003	0.00	28,894	1,258	4.0	1.1	10.7	4.7	3.0
Northwestern District	375	0	1,271	0.13	455	426	0.0	0.0	0.2	0.0	0.1
South Peninsula	0	0	7	0.91	4	27	0.0	0.0	0.0	0.0	0.0
Chignik/Kodiak	0	0	36	0.89	12	67	0.0	0.0	0.0	0.0	0.0
East of Kodiak	0	0	4	0.92	2	17	—	—	—	—	—
Total	29,508				29,504						

Note: Harvest is the number of chum salmon reported to have been harvested in the area stratum.

Note: Harvest rate is the area stratum harvest divided by the total run within the WASSIP area for a given reporting group, expressed as a percent.

Note: Harvest rates are calculated by dividing the harvest posterior by total run posterior distributions; therefore, mean harvest rate may not equal harvest rate calculated from numbers reported in the tables if distributions are highly skewed.

Note: Harvest rate for Asia and East of WASSIP were not calculated because they were not part of WASSIP plan.

^a Adjusted median; 1.01 times unadjusted median.

Table 44.—Bear River Section, Commercial, Northern District, Alaska Peninsula Area, Westward Region, 2008, all strata. Reporting group-specific harvest and harvest rate estimates. Medians, 90% credibility intervals, the probability that reporting group harvest estimate is equal to zero ($P = 0$), means, and SDs are reported.

Reporting Group	Harvest = 3,201; 1 stratum						Harvest Rate (%)				
	Median ^a	90% CI		$P = 0$	Mean	SD	Median	90% CI		Mean	SD
		5%	95%					5%	95%		
Asia	0	0	0	1.00	0	0	—	—	—	—	—
Kotzebue Sound	0	0	0	1.00	0	0	0.0	0.0	0.0	0.0	0.0
CWAK	0	0	0	1.00	0	0	0.0	0.0	0.0	0.0	0.0
Upper Yukon River	0	0	0	1.00	0	0	0.0	0.0	0.0	0.0	0.0
Northern District	3,201	2,944	3,470	0.00	3,200	160	0.3	0.1	1.1	0.4	0.3
Northwestern District	0	0	0	1.00	0	0	0.0	0.0	0.0	0.0	0.0
South Peninsula	0	0	0	1.00	0	0	0.0	0.0	0.0	0.0	0.0
Chignik/Kodiak	0	0	0	1.00	0	0	0.0	0.0	0.0	0.0	0.0
East of Kodiak	0	0	0	1.00	0	0	—	—	—	—	—
Total	3,201				3,200						

Note: Harvest is the number of chum salmon reported to have been harvested in the area stratum.

Note: Harvest rate is the area stratum harvest divided by the total run within the WASSIP area for a given reporting group, expressed as a percent.

Note: Harvest rates are calculated by dividing the harvest posterior by total run posterior distributions; therefore, mean harvest rate may not equal harvest rate calculated from numbers reported in the tables if distributions are highly skewed.

Note: Harvest rate for Asia and East of WASSIP were not calculated because they were not part of WASSIP plan.

^a Adjusted median; 1.00 times unadjusted median.

Table 45.—Bear River Section, Commercial, Northern District, Alaska Peninsula Area, Westward Region, 2009, all strata. Reporting group-specific harvest and harvest rate estimates. Medians, 90% credibility intervals, the probability that reporting group harvest estimate is equal to zero ($P = 0$), means, and SDs are reported.

Reporting Group	Harvest = 18,189; 2 strata						Harvest Rate (%)				
	Median ^a	90% CI		$P = 0$	Mean	SD	Median	90% CI		Mean	SD
		5%	95%					5%	95%		
Asia	0	0	0	0.96	0	4	—	—	—	—	—
Kotzebue Sound	0	0	0	0.96	0	5	0.0	0.0	0.0	0.0	0.0
CWAK	0	0	5	0.93	11	71	0.0	0.0	0.0	0.0	0.0
Upper Yukon River	0	0	0	0.96	0	4	0.0	0.0	0.0	0.0	0.0
Northern District	17,115	15,788	18,321	0.00	17,031	770	2.1	0.5	7.0	2.7	2.2
Northwestern District	999	507	1,630	0.00	1,021	344	0.2	0.0	0.6	0.2	0.2
South Peninsula	0	0	27	0.91	9	50	0.0	0.0	0.0	0.0	0.0
Chignik/Kodiak	0	0	167	0.76	24	67	0.0	0.0	0.0	0.0	0.0
East of Kodiak	75	16	216	0.00	90	64	—	—	—	—	—
Total	18,189				18,186						

Note: Harvest is the number of chum salmon reported to have been harvested in the area stratum.

Note: Harvest rate is the area stratum harvest divided by the total run within the WASSIP area for a given reporting group, expressed as a percent.

Note: Harvest rates are calculated by dividing the harvest posterior by total run posterior distributions; therefore, mean harvest rate may not equal harvest rate calculated from numbers reported in the tables if distributions are highly skewed.

Note: Harvest rate for Asia and East of WASSIP were not calculated because they were not part of WASSIP plan.

^a Adjusted median; 1.01 times unadjusted median.

Table 46.—Three Hills and Ilnik sections, Commercial, Northern District, Alaska Peninsula Area, Westward Region, 2007, all strata. Reporting group-specific harvest and harvest rate estimates. Medians, 90% credibility intervals, the probability that reporting group harvest estimate is equal to zero ($P = 0$), means, and SDs are reported.

Reporting Group	Harvest = 38,752; 2 strata						Harvest Rate (%)				
	Median ^a	90% CI		$P = 0$	Mean	SD	Median	90% CI		Mean	SD
		5%	95%					5%	95%		
Asia	0	0	0	0.95	1	11	—	—	—	—	—
Kotzebue Sound	0	0	3	0.93	4	28	0.0	0.0	0.0	0.0	0.0
CWAK	8,036	5,474	10,702	0.00	7,998	1,591	0.1	0.1	0.2	0.1	0.0
Upper Yukon River	0	0	0	0.95	1	11	0.0	0.0	0.0	0.0	0.0
Northern District	28,136	24,422	31,326	0.00	27,831	2,101	3.8	1.0	10.3	4.5	2.9
Northwestern District	289	0	1,344	0.35	415	477	0.0	0.0	0.2	0.0	0.1
South Peninsula	0	0	77	0.90	23	122	0.0	0.0	0.0	0.0	0.0
Chignik/Kodiak	0	0	1,035	0.58	179	366	0.0	0.0	0.1	0.0	0.0
East of Kodiak	2,290	1,507	3,194	0.00	2,297	516	—	—	—	—	—
Total	38,751				38,749						

Note: Harvest is the number of chum salmon reported to have been harvested in the area stratum.

Note: Harvest rate is the area stratum harvest divided by the total run within the WASSIP area for a given reporting group, expressed as a percent.

Note: Harvest rates are calculated by dividing the harvest posterior by total run posterior distributions; therefore, mean harvest rate may not equal harvest rate calculated from numbers reported in the tables if distributions are highly skewed.

Note: Harvest rate for Asia and East of WASSIP were not calculated because they were not part of WASSIP plan.

^a Adjusted median; 1.01 times unadjusted median.

Table 47.—Three Hills and Ilnik sections, Commercial, Northern District, Alaska Peninsula Area, Westward Region, 2008, all strata. Reporting group-specific harvest and harvest rate estimates. Medians, 90% credibility intervals, the probability that reporting group harvest estimate is equal to zero ($P = 0$), means, and SDs are reported.

Reporting Group	Harvest = 6,537; 2 strata						Harvest Rate (%)				
	Median ^a	90% CI		$P = 0$	Mean	SD	Median	90% CI		Mean	SD
		5%	95%					5%	95%		
Asia	0	0	1	0.95	0	2	—	—	—	—	—
Kotzebue Sound	0	0	2	0.92	1	4	0.0	0.0	0.0	0.0	0.0
CWAK	1,045	700	1,440	0.00	1,049	226	0.0	0.0	0.0	0.0	0.0
Upper Yukon River	0	0	1	0.95	0	2	0.0	0.0	0.0	0.0	0.0
Northern District	5,184	4,613	5,677	0.00	5,139	323	0.5	0.1	1.7	0.7	0.5
Northwestern District	35	0	161	0.32	50	57	0.0	0.0	0.0	0.0	0.0
South Peninsula	0	0	13	0.89	3	15	0.0	0.0	0.0	0.0	0.0
Chignik/Kodiak	0	0	124	0.57	22	44	0.0	0.0	0.0	0.0	0.0
East of Kodiak	272	180	381	0.00	273	61	—	—	—	—	—
Total	6,536				6,537						

Note: Harvest is the number of chum salmon reported to have been harvested in the area stratum.

Note: Harvest rate is the area stratum harvest divided by the total run within the WASSIP area for a given reporting group, expressed as a percent.

Note: Harvest rates are calculated by dividing the harvest posterior by total run posterior distributions; therefore, mean harvest rate may not equal harvest rate calculated from numbers reported in the tables if distributions are highly skewed.

Note: Harvest rate for Asia and East of WASSIP were not calculated because they were not part of WASSIP plan.

^a Adjusted median; 1.01 times unadjusted median.

Table 48.—Three Hills and Ilnik sections, Commercial, Northern District, Alaska Peninsula Area, Westward Region, 2009, all strata. Reporting group-specific harvest and harvest rate estimates. Medians, 90% credibility intervals, the probability that reporting group harvest estimate is equal to zero ($P = 0$), means, and SDs are reported.

Reporting Group	Harvest = 15,081; 2 strata						Harvest Rate (%)				
	Median ^a	90% CI		$P = 0$	Mean	SD	Median	90% CI		Mean	SD
		5%	95%					5%	95%		
Asia	0	0	0	0.96	1	9	—	—	—	—	—
Kotzebue Sound	0	0	1	0.95	2	16	0.0	0.0	0.0	0.0	0.0
CWAK	258	0	2,865	0.13	830	1,025	0.0	0.0	0.0	0.0	0.0
Upper Yukon River	0	0	0	0.95	1	8	0.0	0.0	0.0	0.0	0.0
Northern District	14,823	12,015	15,879	0.00	14,228	1,195	1.8	0.4	5.9	2.3	1.8
Northwestern District	0	0	39	0.89	7	33	0.0	0.0	0.0	0.0	0.0
South Peninsula	0	0	1	0.95	2	15	0.0	0.0	0.0	0.0	0.0
Chignik/Kodiak	0	0	23	0.91	8	48	0.0	0.0	0.0	0.0	0.0
East of Kodiak	0	0	27	0.76	5	20	—	—	—	—	—
Total	15,081				15,084						

Note: Harvest is the number of chum salmon reported to have been harvested in the area stratum.

Note: Harvest rate is the area stratum harvest divided by the total run within the WASSIP area for a given reporting group, expressed as a percent.

Note: Harvest rates are calculated by dividing the harvest posterior by total run posterior distributions; therefore, mean harvest rate may not equal harvest rate calculated from numbers reported in the tables if distributions are highly skewed.

Note: Harvest rate for Asia and East of WASSIP were not calculated because they were not part of WASSIP plan.

^a Adjusted median; 1.03 times unadjusted median.

Table 49.—Eastside districts (Ugashik, Egegik, and Naknek-Kvichak districts), Commercial, Bristol Bay Area, Central Region, 2007, all strata. Reporting group-specific harvest and harvest rate estimates. Medians, 90% credibility intervals, the probability that reporting group harvest estimate is equal to zero ($P = 0$), means, and SDs are reported.

Reporting Group	Harvest = 783,943; 5 strata						Harvest Rate (%)				
	Median ^a	90% CI		$P = 0$	Mean	SD	Median	90% CI		Mean	SD
		5%	95%					5%	95%		
Asia	0	0	119	0.72	30	177	—	—	—	—	—
Kotzebue Sound	0	0	323	0.69	73	388	0.0	0.0	0.0	0.0	0.1
CWAK	718,495	639,077	801,142	0.00	717,248	49,339	8.5	5.5	12.2	8.6	2.0
Upper Yukon River	0	0	155	0.73	38	214	0.0	0.0	0.0	0.0	0.0
Northern District	65,448	36,880	99,731	0.00	66,267	19,299	8.8	2.2	25.2	10.6	7.3
Northwestern District	0	0	116	0.74	37	225	0.0	0.0	0.0	0.0	0.0
South Peninsula	0	0	111	0.74	34	219	0.0	0.0	0.0	0.0	0.0
Chignik/Kodiak	0	0	126	0.74	39	241	0.0	0.0	0.0	0.0	0.0
East of Kodiak	0	0	199	0.61	49	220	—	—	—	—	—
Total	783,943				783,815						

Note: Harvest is the number of chum salmon reported to have been harvested in the area stratum.

Note: Harvest rate is the area stratum harvest divided by the total run within the WASSIP area for a given reporting group, expressed as a percent.

Note: Harvest rates are calculated by dividing the harvest posterior by total run posterior distributions; therefore, mean harvest rate may not equal harvest rate calculated from numbers reported in the tables if distributions are highly skewed.

Note: Harvest rate for Asia and East of WASSIP were not calculated because they were not part of WASSIP plan.

^a Adjusted median; 1.00 times unadjusted median.

Table 50.—Eastside districts (Ugashik, Egegik, and Naknek-Kvichak districts), Commercial, Bristol Bay Area, Central Region, 2008, all strata. Reporting group-specific harvest and harvest rate estimates. Medians, 90% credibility intervals, the probability that reporting group harvest estimate is equal to zero ($P = 0$), means, and SDs are reported.

Reporting Group	Harvest = 465,453; 5 strata						Harvest Rate (%)				
	Median ^a	90% CI		$P = 0$	Mean	SD	Median	90% CI		Mean	SD
		5%	95%					5%	95%		
Asia	0	0	74	0.76	17	92	—	—	—	—	—
Kotzebue Sound	0	0	1,606	0.57	256	645	0.0	0.0	0.2	0.0	0.1
CWAK	438,181	398,671	478,037	0.00	437,216	24,130	7.3	5.1	9.9	7.4	1.4
Upper Yukon River	0	0	88	0.75	21	113	0.0	0.0	0.0	0.0	0.0
Northern District	27,262	14,890	39,521	0.00	27,261	7,396	2.8	0.6	9.4	3.6	2.9
Northwestern District	0	0	658	0.62	100	282	0.0	0.0	0.1	0.0	0.0
South Peninsula	0	0	788	0.61	118	324	0.0	0.0	0.0	0.0	0.0
Chignik/Kodiak	10	0	1,252	0.43	262	470	0.0	0.0	0.1	0.0	0.0
East of Kodiak	0	0	1,037	0.55	177	402	—	—	—	—	—
Total	465,453				465,428						

Note: Harvest is the number of chum salmon reported to have been harvested in the area stratum.

Note: Harvest rate is the area stratum harvest divided by the total run within the WASSIP area for a given reporting group, expressed as a percent.

Note: Harvest rates are calculated by dividing the harvest posterior by total run posterior distributions; therefore, mean harvest rate may not equal harvest rate calculated from numbers reported in the tables if distributions are highly skewed.

Note: Harvest rate for Asia and East of WASSIP were not calculated because they were not part of WASSIP plan.

^a Adjusted median; 1.00 times unadjusted median.

Table 51.—Eastside districts (Ugashik, Egegik, and Naknek-Kvichak districts), Commercial, Bristol Bay Area, Central Region, 2009, all strata. Reporting group-specific harvest and harvest rate estimates. Medians, 90% credibility intervals, the probability that reporting group harvest estimate is equal to zero ($P = 0$), means, and SDs are reported.

Reporting Group	Harvest = 438,705; 5 strata						Harvest Rate (%)				
	Median ^a	90% CI		$P = 0$	Mean	SD	Median	90% CI		Mean	SD
		5%	95%					5%	95%		
Asia	0	0	79	0.75	21	131	—	—	—	—	—
Kotzebue Sound	0	0	207	0.72	43	225	0.0	0.0	0.0	0.0	0.0
CWAK	419,960	379,612	461,236	0.00	419,002	24,839	6.8	4.8	9.2	6.9	1.3
Upper Yukon River	0	0	119	0.73	27	146	0.0	0.0	0.0	0.0	0.0
Northern District	18,745	7,636	32,000	0.00	19,128	7,678	2.2	0.4	8.5	3.0	2.8
Northwestern District	0	0	90	0.74	21	122	0.0	0.0	0.0	0.0	0.0
South Peninsula	0	0	313	0.72	69	331	0.0	0.0	0.0	0.0	0.0
Chignik/Kodiak	0	0	187	0.73	50	261	0.0	0.0	0.0	0.0	0.0
East of Kodiak	0	0	1,781	0.53	323	664	—	—	—	—	—
Total	438,705				438,684						

Note: Harvest is the number of chum salmon reported to have been harvested in the area stratum.

Note: Harvest rate is the area stratum harvest divided by the total run within the WASSIP area for a given reporting group, expressed as a percent.

Note: Harvest rates are calculated by dividing the harvest posterior by total run posterior distributions; therefore, mean harvest rate may not equal harvest rate calculated from numbers reported in the tables if distributions are highly skewed.

Note: Harvest rate for Asia and East of WASSIP were not calculated because they were not part of WASSIP plan.

^a Adjusted median; 1.00 times unadjusted median.

Table 52.—Nushagak District, Commercial, Bristol Bay Area, Central Region, 2007, all strata. Reporting group-specific harvest and harvest rate estimates. Medians, 90% credibility intervals, the probability that reporting group harvest estimate is equal to zero ($P = 0$), means, and SDs are reported.

Reporting Group	Harvest = 953,282; 5 strata						Harvest Rate (%)				
	Median ^a	90% CI		$P = 0$	Mean	SD	Median	90% CI		Mean	SD
		5%	95%					5%	95%		
Asia	0	0	79	0.75	19	104	—	—	—	—	—
Kotzebue Sound	0	0	263	0.71	64	360	0.0	0.0	0.0	0.0	0.1
CWAK	953,282	863,669	1,049,593	0.00	953,170	56,453	11.3	7.4	16.2	11.5	2.7
Upper Yukon River	0	0	286	0.68	63	334	0.0	0.0	0.0	0.0	0.0
Northern District	0	0	102	0.74	24	132	0.0	0.0	0.0	0.0	0.0
Northwestern District	0	0	74	0.76	17	97	0.0	0.0	0.0	0.0	0.0
South Peninsula	0	0	71	0.76	18	101	0.0	0.0	0.0	0.0	0.0
Chignik/Kodiak	0	0	74	0.76	18	99	0.0	0.0	0.0	0.0	0.0
East of Kodiak	0	0	71	0.76	17	98	—	—	—	—	—
Total	953,282				953,410						

Note: Harvest is the number of chum salmon reported to have been harvested in the area stratum.

Note: Harvest rate is the area stratum harvest divided by the total run within the WASSIP area for a given reporting group, expressed as a percent.

Note: Harvest rates are calculated by dividing the harvest posterior by total run posterior distributions; therefore, mean harvest rate may not equal harvest rate calculated from numbers reported in the tables if distributions are highly skewed.

Note: Harvest rate for Asia and East of WASSIP were not calculated because they were not part of WASSIP plan.

^a Adjusted median; 1.00 times unadjusted median.

Table 53.—Nushagak District, Commercial, Bristol Bay Area, Central Region, 2008, all strata. Reporting group-specific harvest and harvest rate estimates. Medians, 90% credibility intervals, the probability that reporting group harvest estimate is equal to zero ($P = 0$), means, and SDs are reported.

Reporting Group	Harvest = 492,330; 5 strata						Harvest Rate (%)				
	Median ^a	90% CI		$P = 0$	Mean	SD	Median	90% CI		Mean	SD
		5%	95%					5%	95%		
Asia	0	0	66	0.72	14	66	—	—	—	—	—
Kotzebue Sound	0	0	163	0.72	30	132	0.0	0.0	0.0	0.0	0.0
CWAK	492,197	450,950	534,490	0.00	491,446	25,457	8.2	5.8	11.1	8.3	1.6
Upper Yukon River	0	0	164	0.72	29	133	0.0	0.0	0.0	0.0	0.0
Northern District	0	0	3,494	0.59	532	1,198	0.0	0.0	0.5	0.1	0.2
Northwestern District	0	0	276	0.67	42	131	0.0	0.0	0.0	0.0	0.0
South Peninsula	0	0	387	0.61	63	160	0.0	0.0	0.0	0.0	0.0
Chignik/Kodiak	0	0	347	0.65	53	152	0.0	0.0	0.0	0.0	0.0
East of Kodiak	133	0	672	0.11	206	234	—	—	—	—	—
Total	492,330				492,415						

Note: Harvest is the number of chum salmon reported to have been harvested in the area stratum.

Note: Harvest rate is the area stratum harvest divided by the total run within the WASSIP area for a given reporting group, expressed as a percent.

Note: Harvest rates are calculated by dividing the harvest posterior by total run posterior distributions; therefore, mean harvest rate may not equal harvest rate calculated from numbers reported in the tables if distributions are highly skewed.

Note: Harvest rate for Asia and East of WASSIP were not calculated because they were not part of WASSIP plan.

^a Adjusted median; 1.00 times unadjusted median.

Table 54.—Nushagak District, Commercial, Bristol Bay Area, Central Region, 2009, all strata. Reporting group-specific harvest and harvest rate estimates. Medians, 90% credibility intervals, the probability that reporting group harvest estimate is equal to zero ($P = 0$), means, and SDs are reported.

Reporting Group	Harvest = 745,083; 5 strata						Harvest Rate (%)				
	Median ^a	90% CI		$P = 0$	Mean	SD	Median	90% CI		Mean	SD
		5%	95%					5%	95%		
Asia	0	0	64	0.76	14	72	—	—	—	—	—
Kotzebue Sound	0	0	828	0.66	128	471	0.0	0.0	0.1	0.0	0.1
CWAK	745,083	685,822	807,428	0.00	744,935	37,031	12.2	8.6	16.3	12.3	2.3
Upper Yukon River	0	0	169	0.71	30	129	0.0	0.0	0.0	0.0	0.0
Northern District	0	0	86	0.75	18	94	0.0	0.0	0.0	0.0	0.0
Northwestern District	0	0	79	0.75	17	90	0.0	0.0	0.0	0.0	0.0
South Peninsula	0	0	61	0.76	13	67	0.0	0.0	0.0	0.0	0.0
Chignik/Kodiak	0	0	62	0.76	13	67	0.0	0.0	0.0	0.0	0.0
East of Kodiak	0	0	60	0.76	13	62	—	—	—	—	—
Total	745,083				745,181						

Note: Harvest is the number of chum salmon reported to have been harvested in the area stratum.

Note: Harvest rate is the area stratum harvest divided by the total run within the WASSIP area for a given reporting group, expressed as a percent.

Note: Harvest rates are calculated by dividing the harvest posterior by total run posterior distributions; therefore, mean harvest rate may not equal harvest rate calculated from numbers reported in the tables if distributions are highly skewed.

Note: Harvest rate for Asia and East of WASSIP were not calculated because they were not part of WASSIP plan.

^a Adjusted median; 1.00 times unadjusted median.

Table 55.—Togiak District, Commercial, Bristol Bay Area, Central Region, 2007, all strata. Reporting group-specific harvest and harvest rate estimates. Medians, 90% credibility intervals, the probability that reporting group harvest estimate is equal to zero ($P = 0$), means, and SDs are reported.

Reporting Group	Harvest = 202,486; 5 strata						Harvest Rate (%)				
	Median ^a	90% CI		$P = 0$	Mean	SD	Median	90% CI		Mean	SD
		5%	95%					5%	95%		
Asia	0	0	29	0.79	7	37	—	—	—	—	—
Kotzebue Sound	0	0	81	0.76	19	97	0.0	0.0	0.0	0.0	0.0
CWAK	202,259	186,098	218,998	0.00	202,056	10,015	2.4	1.6	3.4	2.4	0.6
Upper Yukon River	0	0	33	0.79	7	39	0.0	0.0	0.0	0.0	0.0
Northern District	0	0	117	0.74	22	94	0.0	0.0	0.0	0.0	0.0
Northwestern District	0	0	31	0.79	7	37	0.0	0.0	0.0	0.0	0.0
South Peninsula	0	0	38	0.78	8	43	0.0	0.0	0.0	0.0	0.0
Chignik/Kodiak	0	0	52	0.77	10	46	0.0	0.0	0.0	0.0	0.0
East of Kodiak	227	32	744	0.00	286	235	—	—	—	—	—
Total	202,486				202,422						

Note: Harvest is the number of chum salmon reported to have been harvested in the area stratum.

Note: Harvest rate is the area stratum harvest divided by the total run within the WASSIP area for a given reporting group, expressed as a percent.

Note: Harvest rates are calculated by dividing the harvest posterior by total run posterior distributions; therefore, mean harvest rate may not equal harvest rate calculated from numbers reported in the tables if distributions are highly skewed.

Note: Harvest rate for Asia and East of WASSIP were not calculated because they were not part of WASSIP plan.

^a Adjusted median; 1.00 times unadjusted median.

Table 56.—Togiak District, Commercial, Bristol Bay Area, Central Region, 2008, all strata. Reporting group-specific harvest and harvest rate estimates. Medians, 90% credibility intervals, the probability that reporting group harvest estimate is equal to zero ($P = 0$), means, and SDs are reported.

Reporting Group	Harvest = 301,967; 5 strata						Harvest Rate (%)				
	Median ^a	90% CI		$P = 0$	Mean	SD	Median	90% CI		Mean	SD
		5%	95%					5%	95%		
Asia	0	0	41	0.78	9	46	—	—	—	—	—
Kotzebue Sound	0	0	110	0.75	22	102	0.0	0.0	0.0	0.0	0.0
CWAK	301,967	276,606	328,540	0.00	301,833	15,754	5.0	3.5	6.8	5.1	1.0
Upper Yukon River	0	0	46	0.77	11	57	0.0	0.0	0.0	0.0	0.0
Northern District	0	0	88	0.76	21	115	0.0	0.0	0.0	0.0	0.0
Northwestern District	0	0	43	0.78	9	47	0.0	0.0	0.0	0.0	0.0
South Peninsula	0	0	35	0.79	8	42	0.0	0.0	0.0	0.0	0.0
Chignik/Kodiak	0	0	35	0.79	8	41	0.0	0.0	0.0	0.0	0.0
East of Kodiak	0	0	34	0.79	8	41	—	—	—	—	—
Total	301,967				301,929						

Note: Harvest is the number of chum salmon reported to have been harvested in the area stratum.

Note: Harvest rate is the area stratum harvest divided by the total run within the WASSIP area for a given reporting group, expressed as a percent.

Note: Harvest rates are calculated by dividing the harvest posterior by total run posterior distributions; therefore, mean harvest rate may not equal harvest rate calculated from numbers reported in the tables if distributions are highly skewed.

Note: Harvest rate for Asia and East of WASSIP were not calculated because they were not part of WASSIP plan.

^a Adjusted median; 1.00 times unadjusted median.

Table 57.—Togiak District, Commercial, Bristol Bay Area, Central Region, 2009, all strata. Reporting group-specific harvest and harvest rate estimates. Medians, 90% credibility intervals, the probability that reporting group harvest estimate is equal to zero ($P = 0$), means, and SDs are reported.

Reporting Group	Harvest = 141,371; 5 strata						Harvest Rate (%)				
	Median ^a	90% CI		$P = 0$	Mean	SD	Median	90% CI		Mean	SD
		5%	95%					5%	95%		
Asia	0	0	18	0.81	4	25	—	—	—	—	—
Kotzebue Sound	0	0	54	0.76	11	58	0.0	0.0	0.0	0.0	0.0
CWAK	141,352	127,642	156,301	0.00	141,298	8,711	2.3	1.6	3.1	2.3	0.5
Upper Yukon River	0	0	22	0.80	5	28	0.0	0.0	0.0	0.0	0.0
Northern District	0	0	41	0.78	11	68	0.0	0.0	0.0	0.0	0.0
Northwestern District	0	0	18	0.81	4	26	0.0	0.0	0.0	0.0	0.0
South Peninsula	0	0	20	0.80	5	28	0.0	0.0	0.0	0.0	0.0
Chignik/Kodiak	0	0	20	0.80	4	25	0.0	0.0	0.0	0.0	0.0
East of Kodiak	19	1	87	0.03	29	36	—	—	—	—	—
Total	141,371				141,371						

Note: Harvest is the number of chum salmon reported to have been harvested in the area stratum.

Note: Harvest rate is the area stratum harvest divided by the total run within the WASSIP area for a given reporting group, expressed as a percent.

Note: Harvest rates are calculated by dividing the harvest posterior by total run posterior distributions; therefore, mean harvest rate may not equal harvest rate calculated from numbers reported in the tables if distributions are highly skewed.

Note: Harvest rate for Asia and East of WASSIP were not calculated because they were not part of WASSIP plan.

^a Adjusted median; 1.00 times unadjusted median.

Table 58.—District 5, Commercial, Kuskokwim Area, Arctic-Yukon-Kuskokwim Region, 2007, all strata. Reporting group-specific harvest and harvest rate estimates. Medians, 90% credibility intervals, the probability that reporting group harvest estimate is equal to zero ($P = 0$), means, and SDs are reported.

Reporting Group	Harvest = 7,851; 3 strata						Harvest Rate (%)				
	Median ^a	90% CI		$P = 0$	Mean	SD	Median	90% CI		Mean	SD
		5%	95%					5%	95%		
Asia	0	0	2	0.92	0	3	—	—	—	—	—
Kotzebue Sound	0	0	30	0.81	4	15	0.0	0.0	0.0	0.0	0.0
CWAK	7,848	7,459	8,212	0.00	7,831	229	0.1	0.1	0.1	0.1	0.0
Upper Yukon River	0	0	10	0.87	2	8	0.0	0.0	0.0	0.0	0.0
Northern District	0	0	25	0.71	4	10	0.0	0.0	0.0	0.0	0.0
Northwestern District	0	0	2	0.92	0	3	0.0	0.0	0.0	0.0	0.0
South Peninsula	0	0	11	0.80	2	5	0.0	0.0	0.0	0.0	0.0
Chignik/Kodiak	0	0	16	0.76	2	7	0.0	0.0	0.0	0.0	0.0
East of Kodiak	3	0	22	0.33	6	8	—	—	—	—	—
Total	7,851				7,851						

Note: Harvest is the number of chum salmon reported to have been harvested in the area stratum.

Note: Harvest rate is the area stratum harvest divided by the total run within the WASSIP area for a given reporting group, expressed as a percent.

Note: Harvest rates are calculated by dividing the harvest posterior by total run posterior distributions; therefore, mean harvest rate may not equal harvest rate calculated from numbers reported in the tables if distributions are highly skewed.

Note: Harvest rate for Asia and East of WASSIP were not calculated because they were not part of WASSIP plan.

^a Adjusted median; 1.00 times unadjusted median.

Table 59.—District 5, Commercial, Kuskokwim Area, Arctic-Yukon-Kuskokwim Region, 2008, all strata. Reporting group-specific harvest and harvest rate estimates. Medians, 90% credibility intervals, the probability that reporting group harvest estimate is equal to zero ($P = 0$), means, and SDs are reported.

Reporting Group	Harvest = 10,408; 3 strata						Harvest Rate (%)				
	Median ^a	90% CI		$P = 0$	Mean	SD	Median	90% CI		Mean	SD
		5%	95%					5%	95%		
Asia	0	0	2	0.89	0	2	—	—	—	—	—
Kotzebue Sound	0	0	12	0.78	2	7	0.0	0.0	0.0	0.0	0.0
CWAK	10,405	9,871	10,927	0.00	10,389	321	0.2	0.1	0.2	0.2	0.0
Upper Yukon River	0	0	14	0.79	2	7	0.0	0.0	0.0	0.0	0.0
Northern District	0	0	19	0.69	3	8	0.0	0.0	0.0	0.0	0.0
Northwestern District	0	0	2	0.89	0	2	0.0	0.0	0.0	0.0	0.0
South Peninsula	0	0	11	0.78	2	5	0.0	0.0	0.0	0.0	0.0
Chignik/Kodiak	0	0	15	0.74	2	6	0.0	0.0	0.0	0.0	0.0
East of Kodiak	3	0	24	0.31	7	9	—	—	—	—	—
Total	10,408				10,407						

Note: Harvest is the number of chum salmon reported to have been harvested in the area stratum.

Note: Harvest rate is the area stratum harvest divided by the total run within the WASSIP area for a given reporting group, expressed as a percent.

Note: Harvest rates are calculated by dividing the harvest posterior by total run posterior distributions; therefore, mean harvest rate may not equal harvest rate calculated from numbers reported in the tables if distributions are highly skewed.

Note: Harvest rate for Asia and East of WASSIP were not calculated because they were not part of WASSIP plan.

^a Adjusted median; 1.00 times unadjusted median.

Table 60.—District 5, Commercial, Kuskokwim Area, Arctic-Yukon-Kuskokwim Region, 2009, all strata. Reporting group-specific harvest and harvest rate estimates. Medians, 90% credibility intervals, the probability that reporting group harvest estimate is equal to zero ($P = 0$), means, and SDs are reported.

Reporting Group	Harvest = 16,985; 3 strata						Harvest Rate (%)				
	Median ^a	90% CI		$P = 0$	Mean	SD	Median	90% CI		Mean	SD
		5%	95%					5%	95%		
Asia	0	0	2	0.92	1	4	—	—	—	—	—
Kotzebue Sound	0	0	8	0.88	2	10	0.0	0.0	0.0	0.0	0.0
CWAK	16,982	16,034	17,955	0.00	16,971	585	0.3	0.2	0.4	0.3	0.1
Upper Yukon River	0	0	23	0.85	4	20	0.0	0.0	0.0	0.0	0.0
Northern District	0	0	3	0.90	1	5	0.0	0.0	0.0	0.0	0.0
Northwestern District	0	0	2	0.92	0	3	0.0	0.0	0.0	0.0	0.0
South Peninsula	0	0	10	0.81	1	5	0.0	0.0	0.0	0.0	0.0
Chignik/Kodiak	0	0	10	0.81	1	5	0.0	0.0	0.0	0.0	0.0
East of Kodiak	3	0	20	0.33	5	7	—	—	—	—	—
Total	16,985				16,986						

Note: Harvest is the number of chum salmon reported to have been harvested in the area stratum.

Note: Harvest rate is the area stratum harvest divided by the total run within the WASSIP area for a given reporting group, expressed as a percent.

Note: Harvest rates are calculated by dividing the harvest posterior by total run posterior distributions; therefore, mean harvest rate may not equal harvest rate calculated from numbers reported in the tables if distributions are highly skewed.

Note: Harvest rate for Asia and East of WASSIP were not calculated because they were not part of WASSIP plan.

^a Adjusted median; 1.00 times unadjusted median.

Table 61.—District 4, Commercial, Kuskokwim Area, Arctic-Yukon-Kuskokwim Region, 2007, all strata. Reporting group-specific harvest and harvest rate estimates. Medians, 90% credibility intervals, the probability that reporting group harvest estimate is equal to zero ($P = 0$), means, and SDs are reported.

Reporting Group	Harvest = 62,232; 3 strata						Harvest Rate (%)				
	Median ^a	90% CI		$P = 0$	Mean	SD	Median	90% CI		Mean	SD
		5%	95%					5%	95%		
Asia	0	0	6	0.89	2	11	—	—	—	—	—
Kotzebue Sound	0	0	202	0.77	28	101	0.0	0.0	0.0	0.0	0.0
CWAK	62,232	58,950	65,539	0.00	62,185	2,007	0.7	0.5	1.1	0.8	0.2
Upper Yukon River	0	0	9	0.88	2	15	0.0	0.0	0.0	0.0	0.0
Northern District	0	0	28	0.84	7	41	0.0	0.0	0.0	0.0	0.0
Northwestern District	0	0	7	0.88	2	12	0.0	0.0	0.0	0.0	0.0
South Peninsula	0	0	6	0.89	2	10	0.0	0.0	0.0	0.0	0.0
Chignik/Kodiak	0	0	6	0.89	2	10	0.0	0.0	0.0	0.0	0.0
East of Kodiak	0	0	5	0.89	2	10	—	—	—	—	—
Total	62,232				62,232						

Note: Harvest is the number of chum salmon reported to have been harvested in the area stratum.

Note: Harvest rate is the area stratum harvest divided by the total run within the WASSIP area for a given reporting group, expressed as a percent.

Note: Harvest rates are calculated by dividing the harvest posterior by total run posterior distributions; therefore, mean harvest rate may not equal harvest rate calculated from numbers reported in the tables if distributions are highly skewed.

Note: Harvest rate for Asia and East of WASSIP were not calculated because they were not part of WASSIP plan.

^a Adjusted median; 1.00 times unadjusted median.

Table 62.—District 4, Commercial, Kuskokwim Area, Arctic-Yukon-Kuskokwim Region, 2008, all strata. Reporting group-specific harvest and harvest rate estimates. Medians, 90% credibility intervals, the probability that reporting group harvest estimate is equal to zero ($P = 0$), means, and SDs are reported.

Reporting Group	Harvest = 57,033; 3 strata						Harvest Rate (%)				
	Median ^a	90% CI		$P = 0$	Mean	SD	Median	90% CI		Mean	SD
		5%	95%					5%	95%		
Asia	0	0	6	0.88	2	11	—	—	—	—	—
Kotzebue Sound	0	0	43	0.82	8	36	0.0	0.0	0.0	0.0	0.0
CWAK	57,033	54,185	59,944	0.00	57,014	1,754	1.0	0.7	1.3	1.0	0.2
Upper Yukon River	0	0	8	0.88	2	16	0.0	0.0	0.0	0.0	0.0
Northern District	0	0	9	0.87	3	17	0.0	0.0	0.0	0.0	0.0
Northwestern District	0	0	6	0.89	2	10	0.0	0.0	0.0	0.0	0.0
South Peninsula	0	0	5	0.89	2	10	0.0	0.0	0.0	0.0	0.0
Chignik/Kodiak	0	0	6	0.88	2	11	0.0	0.0	0.0	0.0	0.0
East of Kodiak	0	0	5	0.89	1	9	—	—	—	—	—
Total	57,033				57,036						

Note: Harvest is the number of chum salmon reported to have been harvested in the area stratum.

Note: Harvest rate is the area stratum harvest divided by the total run within the WASSIP area for a given reporting group, expressed as a percent.

Note: Harvest rates are calculated by dividing the harvest posterior by total run posterior distributions; therefore, mean harvest rate may not equal harvest rate calculated from numbers reported in the tables if distributions are highly skewed.

Note: Harvest rate for Asia and East of WASSIP were not calculated because they were not part of WASSIP plan.

^a Adjusted median; 1.00 times unadjusted median.

Table 63.—District 4, Commercial, Kuskokwim Area, Arctic-Yukon-Kuskokwim Region, 2009, all strata. Reporting group-specific harvest and harvest rate estimates. Medians, 90% credibility intervals, the probability that reporting group harvest estimate is equal to zero ($P = 0$), means, and SDs are reported.

Reporting Group	Harvest = 91,158; 3 strata						Harvest Rate (%)				
	Median ^a	90% CI		$P = 0$	Mean	SD	Median	90% CI		Mean	SD
		5%	95%					5%	95%		
Asia	0	0	10	0.87	3	18	—	—	—	—	—
Kotzebue Sound	0	0	24	0.85	7	46	0.0	0.0	0.0	0.0	0.0
CWAK	91,158	86,537	95,846	0.00	91,123	2,838	1.5	1.1	2.0	1.5	0.3
Upper Yukon River	0	0	19	0.86	6	41	0.0	0.0	0.0	0.0	0.0
Northern District	0	0	35	0.83	8	43	0.0	0.0	0.0	0.0	0.0
Northwestern District	0	0	8	0.88	2	15	0.0	0.0	0.0	0.0	0.0
South Peninsula	0	0	8	0.88	2	15	0.0	0.0	0.0	0.0	0.0
Chignik/Kodiak	0	0	8	0.88	2	14	0.0	0.0	0.0	0.0	0.0
East of Kodiak	0	0	8	0.88	2	14	—	—	—	—	—
Total	91,158				91,155						

Note: Harvest is the number of chum salmon reported to have been harvested in the area stratum.

Note: Harvest rate is the area stratum harvest divided by the total run within the WASSIP area for a given reporting group, expressed as a percent.

Note: Harvest rates are calculated by dividing the harvest posterior by total run posterior distributions; therefore, mean harvest rate may not equal harvest rate calculated from numbers reported in the tables if distributions are highly skewed.

Note: Harvest rate for Asia and East of WASSIP were not calculated because they were not part of WASSIP plan.

^a Adjusted median; 1.00 times unadjusted median.

Table 64.—District 1, Commercial, Kuskokwim Area, Arctic-Yukon-Kuskokwim Region, 2007, all strata. Reporting group-specific harvest and harvest rate estimates. Medians, 90% credibility intervals, the probability that reporting group harvest estimate is equal to zero ($P = 0$), means, and SDs are reported.

Reporting Group	Harvest = 14,027; 3 strata						Harvest Rate (%)				
	Median ^a	90% CI		$P = 0$	Mean	SD	Median	90% CI		Mean	SD
		5%	95%					5%	95%		
Asia	0	0	1	0.94	0	4	—	—	—	—	—
Kotzebue Sound	0	0	2	0.92	1	10	0.0	0.0	0.0	0.0	0.0
CWAK	14,027	13,025	15,054	0.00	14,013	614	0.2	0.1	0.2	0.2	0.0
Upper Yukon River	0	0	68	0.85	9	39	0.0	0.0	0.0	0.0	0.0
Northern District	0	0	1	0.93	0	4	0.0	0.0	0.0	0.0	0.0
Northwestern District	0	0	1	0.94	0	4	0.0	0.0	0.0	0.0	0.0
South Peninsula	0	0	1	0.94	0	4	0.0	0.0	0.0	0.0	0.0
Chignik/Kodiak	0	0	1	0.94	0	3	0.0	0.0	0.0	0.0	0.0
East of Kodiak	0	0	1	0.94	0	3	—	—	—	—	—
Total	14,027				14,023						

Note: Harvest is the number of chum salmon reported to have been harvested in the area stratum.

Note: Harvest rate is the area stratum harvest divided by the total run within the WASSIP area for a given reporting group, expressed as a percent.

Note: Harvest rates are calculated by dividing the harvest posterior by total run posterior distributions; therefore, mean harvest rate may not equal harvest rate calculated from numbers reported in the tables if distributions are highly skewed.

Note: Harvest rate for Asia and East of WASSIP were not calculated because they were not part of WASSIP plan.

^a Adjusted median; 1.00 times unadjusted median.

Table 65.—District 1, Commercial, Kuskokwim Area, Arctic-Yukon-Kuskokwim Region, 2008, all strata. Reporting group-specific harvest and harvest rate estimates. Medians, 90% credibility intervals, the probability that reporting group harvest estimate is equal to zero ($P = 0$), means, and SDs are reported.

Reporting Group	Harvest = 30,516; 3 strata						Harvest Rate (%)				
	Median ^a	90% CI		$P = 0$	Mean	SD	Median	90% CI		Mean	SD
		5%	95%					5%	95%		
Asia	0	0	7	0.88	1	8	—	—	—	—	—
Kotzebue Sound	0	0	35	0.83	5	22	0.0	0.0	0.0	0.0	0.0
CWAK	30,516	28,792	32,274	0.00	30,496	1,061	0.5	0.4	0.7	0.5	0.1
Upper Yukon River	0	0	33	0.73	6	20	0.0	0.0	0.0	0.0	0.0
Northern District	0	0	6	0.88	2	11	0.0	0.0	0.0	0.0	0.0
Northwestern District	0	0	4	0.90	1	7	0.0	0.0	0.0	0.0	0.0
South Peninsula	0	0	3	0.91	1	6	0.0	0.0	0.0	0.0	0.0
Chignik/Kodiak	0	0	3	0.90	1	6	0.0	0.0	0.0	0.0	0.0
East of Kodiak	0	0	3	0.91	1	5	—	—	—	—	—
Total	30,516				30,514						

Note: Harvest is the number of chum salmon reported to have been harvested in the area stratum.

Note: Harvest rate is the area stratum harvest divided by the total run within the WASSIP area for a given reporting group, expressed as a percent.

Note: Harvest rates are calculated by dividing the harvest posterior by total run posterior distributions; therefore, mean harvest rate may not equal harvest rate calculated from numbers reported in the tables if distributions are highly skewed.

Note: Harvest rate for Asia and East of WASSIP were not calculated because they were not part of WASSIP plan.

^a Adjusted median; 1.00 times unadjusted median.

Table 66.—District 1, Commercial, Kuskokwim Area, Arctic-Yukon-Kuskokwim Region, 2009, all strata. Reporting group-specific harvest and harvest rate estimates. Medians, 90% credibility intervals, the probability that reporting group harvest estimate is equal to zero ($P = 0$), means, and SDs are reported.

Reporting Group	Harvest = 76,790; 3 strata						Harvest Rate (%)				
	Median ^a	90% CI		$P = 0$	Mean	SD	Median	90% CI		Mean	SD
		5%	95%					5%	95%		
Asia	0	0	7	0.88	2	14	—	—	—	—	—
Kotzebue Sound	0	0	15	0.86	5	33	0.0	0.0	0.0	0.0	0.0
CWAK	76,790	72,680	81,003	0.00	76,763	2,527	1.3	0.9	1.7	1.3	0.2
Upper Yukon River	0	0	18	0.86	5	27	0.0	0.0	0.0	0.0	0.0
Northern District	0	0	8	0.88	3	18	0.0	0.0	0.0	0.0	0.0
Northwestern District	0	0	7	0.88	2	13	0.0	0.0	0.0	0.0	0.0
South Peninsula	0	0	7	0.88	2	13	0.0	0.0	0.0	0.0	0.0
Chignik/Kodiak	0	0	7	0.88	2	12	0.0	0.0	0.0	0.0	0.0
East of Kodiak	0	0	6	0.88	2	13	—	—	—	—	—
Total	76,790				76,786						

Note: Harvest is the number of chum salmon reported to have been harvested in the area stratum.

Note: Harvest rate is the area stratum harvest divided by the total run within the WASSIP area for a given reporting group, expressed as a percent.

Note: Harvest rates are calculated by dividing the harvest posterior by total run posterior distributions; therefore, mean harvest rate may not equal harvest rate calculated from numbers reported in the tables if distributions are highly skewed.

Note: Harvest rate for Asia and East of WASSIP were not calculated because they were not part of WASSIP plan.

^a Adjusted median; 1.00 times unadjusted median.

Table 67.—Mekoryuk, Subsistence, Kuskokwim Area, Arctic-Yukon-Kuskokwim Region, 2007, all strata. Reporting group-specific harvest and harvest rate estimates. Medians, 90% credibility intervals, the probability that reporting group harvest estimate is equal to zero ($P = 0$), means, and SDs are reported.

Reporting Group	Harvest = 6,028; 1 stratum						Harvest Rate (%)				
	Median ^a	90% CI		$P = 0$	Mean	SD	Median	90% CI		Mean	SD
		5%	95%					5%	95%		
Asia	0	0	0	1.00	0	0	—	—	—	—	—
Kotzebue Sound	0	0	0	1.00	0	0	0.0	0.0	0.0	0.0	0.0
CWAK	6,028	2,672	11,276	0.00	6,039	2,771	0.1	0.0	0.1	0.1	0.0
Upper Yukon River	0	0	0	1.00	0	0	0.0	0.0	0.0	0.0	0.0
Northern District	0	0	0	1.00	0	0	0.0	0.0	0.0	0.0	0.0
Northwestern District	0	0	0	1.00	0	0	0.0	0.0	0.0	0.0	0.0
South Peninsula	0	0	0	1.00	0	0	0.0	0.0	0.0	0.0	0.0
Chignik/Kodiak	0	0	0	1.00	0	0	0.0	0.0	0.0	0.0	0.0
East of Kodiak	0	0	0	1.00	0	0	—	—	—	—	—
Total	6,028				6,039						

Note: Harvest is the number of chum salmon reported to have been harvested in the area stratum.

Note: Harvest rate is the area stratum harvest divided by the total run within the WASSIP area for a given reporting group, expressed as a percent.

Note: Harvest rates are calculated by dividing the harvest posterior by total run posterior distributions; therefore, mean harvest rate may not equal harvest rate calculated from numbers reported in the tables if distributions are highly skewed.

Note: Harvest rate for Asia and East of WASSIP were not calculated because they were not part of WASSIP plan.

^a Adjusted median; 1.10 times unadjusted median.

Table 68.—Mekoryuk, Subsistence, Kuskokwim Area, Arctic-Yukon-Kuskokwim Region, 2008, all strata. Reporting group-specific harvest and harvest rate estimates. Medians, 90% credibility intervals, the probability that reporting group harvest estimate is equal to zero ($P = 0$), means, and SDs are reported.

Reporting Group	Harvest = 6,028; 1 stratum						Harvest Rate (%)				
	Median ^a	90% CI		$P = 0$	Mean	SD	Median	90% CI		Mean	SD
		5%	95%					5%	95%		
Asia	0	0	0	1.00	0	0	—	—	—	—	—
Kotzebue Sound	0	0	0	1.00	0	0	0.0	0.0	0.0	0.0	0.0
CWAK	6,028	2,667	11,260	0.00	6,032	2,773	0.1	0.0	0.2	0.1	0.1
Upper Yukon River	0	0	0	1.00	0	0	0.0	0.0	0.0	0.0	0.0
Northern District	0	0	0	1.00	0	0	0.0	0.0	0.0	0.0	0.0
Northwestern District	0	0	0	1.00	0	0	0.0	0.0	0.0	0.0	0.0
South Peninsula	0	0	0	1.00	0	0	0.0	0.0	0.0	0.0	0.0
Chignik/Kodiak	0	0	0	1.00	0	0	0.0	0.0	0.0	0.0	0.0
East of Kodiak	0	0	0	1.00	0	0	—	—	—	—	—
Total	6,028				6,032						

Note: Harvest is the number of chum salmon reported to have been harvested in the area stratum.

Note: Harvest rate is the area stratum harvest divided by the total run within the WASSIP area for a given reporting group, expressed as a percent.

Note: Harvest rates are calculated by dividing the harvest posterior by total run posterior distributions; therefore, mean harvest rate may not equal harvest rate calculated from numbers reported in the tables if distributions are highly skewed.

Note: Harvest rate for Asia and East of WASSIP were not calculated because they were not part of WASSIP plan.

^a Adjusted median; 1.10 times unadjusted median.

Table 69.—Mekoryuk, Subsistence, Kuskokwim Area, Arctic-Yukon-Kuskokwim Region, 2009, all strata. Reporting group-specific harvest and harvest rate estimates. Medians, 90% credibility intervals, the probability that reporting group harvest estimate is equal to zero ($P = 0$), means, and SDs are reported.

Reporting Group	Harvest = 6,028; 1 stratum						Harvest Rate (%)				
	Median ^a	90% CI		$P = 0$	Mean	SD	Median	90% CI		Mean	SD
		5%	95%					5%	95%		
Asia	0	0	0	1.00	0	0	—	—	—	—	—
Kotzebue Sound	0	0	0	1.00	0	0	0.0	0.0	0.0	0.0	0.0
CWAK	6,028	2,664	11,287	0.00	6,040	2,782	0.1	0.0	0.2	0.1	0.1
Upper Yukon River	0	0	0	1.00	0	0	0.0	0.0	0.0	0.0	0.0
Northern District	0	0	0	1.00	0	0	0.0	0.0	0.0	0.0	0.0
Northwestern District	0	0	0	1.00	0	0	0.0	0.0	0.0	0.0	0.0
South Peninsula	0	0	0	1.00	0	0	0.0	0.0	0.0	0.0	0.0
Chignik/Kodiak	0	0	0	1.00	0	0	0.0	0.0	0.0	0.0	0.0
East of Kodiak	0	0	0	1.00	0	0	—	—	—	—	—
Total	6,028				6,040						

Note: Harvest is the number of chum salmon reported to have been harvested in the area stratum.

Note: Harvest rate is the area stratum harvest divided by the total run within the WASSIP area for a given reporting group, expressed as a percent.

Note: Harvest rates are calculated by dividing the harvest posterior by total run posterior distributions; therefore, mean harvest rate may not equal harvest rate calculated from numbers reported in the tables if distributions are highly skewed.

Note: Harvest rate for Asia and East of WASSIP were not calculated because they were not part of WASSIP plan.

^a Adjusted median; 1.10 times unadjusted median.

Table 70.—Toksook Bay, Subsistence, Kuskokwim Area, Arctic-Yukon-Kuskokwim Region, 2007, all strata. Reporting group-specific harvest and harvest rate estimates. Medians, 90% credibility intervals, the probability that reporting group harvest estimate is equal to zero ($P = 0$), means, and SDs are reported.

Reporting Group	Harvest = 2,042; 1 stratum						Harvest Rate (%)				
	Median ^a	90% CI		$P = 0$	Mean	SD	Median	90% CI		Mean	SD
		5%	95%					5%	95%		
Asia	0	0	0	0.98	0	1	—	—	—	—	—
Kotzebue Sound	0	0	0	0.97	0	3	0.0	0.0	0.0	0.0	0.0
CWAK	2,042	511	4,987	0.00	2,039	1,595	0.0	0.0	0.1	0.0	0.0
Upper Yukon River	0	0	1	0.94	0	4	0.0	0.0	0.0	0.0	0.0
Northern District	0	0	0	0.98	0	1	0.0	0.0	0.0	0.0	0.0
Northwestern District	0	0	0	0.98	0	1	0.0	0.0	0.0	0.0	0.0
South Peninsula	0	0	0	0.98	0	1	0.0	0.0	0.0	0.0	0.0
Chignik/Kodiak	0	0	0	0.98	0	1	0.0	0.0	0.0	0.0	0.0
East of Kodiak	0	0	0	0.98	0	1	—	—	—	—	—
Total	2,042				2,039						

Note: Harvest is the number of chum salmon reported to have been harvested in the area stratum.

Note: Harvest rate is the area stratum harvest divided by the total run within the WASSIP area for a given reporting group, expressed as a percent.

Note: Harvest rates are calculated by dividing the harvest posterior by total run posterior distributions; therefore, mean harvest rate may not equal harvest rate calculated from numbers reported in the tables if distributions are highly skewed.

Note: Harvest rate for Asia and East of WASSIP were not calculated because they were not part of WASSIP plan.

^a Adjusted median; 1.27 times unadjusted median.

Table 71.—Toksook Bay, Subsistence, Kuskokwim Area, Arctic-Yukon-Kuskokwim Region, 2008, all strata. Reporting group-specific harvest and harvest rate estimates. Medians, 90% credibility intervals, the probability that reporting group harvest estimate is equal to zero ($P = 0$), means, and SDs are reported.

Reporting Group	Harvest = 2,042; 1 stratum						Harvest Rate (%)				
	Median ^a	90% CI		$P = 0$	Mean	SD	Median	90% CI		Mean	SD
		5%	95%					5%	95%		
Asia	4	0	22	0.14	6	9	—	—	—	—	—
Kotzebue Sound	0	0	0	0.96	0	3	0.0	0.0	0.0	0.0	0.0
CWAK	2,038	505	5,027	0.00	2,033	1,623	0.0	0.0	0.1	0.0	0.0
Upper Yukon River	0	0	2	0.94	1	10	0.0	0.0	0.0	0.0	0.0
Northern District	0	0	3	0.91	1	3	0.0	0.0	0.0	0.0	0.0
Northwestern District	0	0	9	0.72	2	5	0.0	0.0	0.0	0.0	0.0
South Peninsula	0	0	0	0.96	0	2	0.0	0.0	0.0	0.0	0.0
Chignik/Kodiak	0	0	2	0.93	0	2	0.0	0.0	0.0	0.0	0.0
East of Kodiak	0	0	0	0.98	0	1	—	—	—	—	—
Total	2,042				2,043						

Note: Harvest is the number of chum salmon reported to have been harvested in the area stratum.

Note: Harvest rate is the area stratum harvest divided by the total run within the WASSIP area for a given reporting group, expressed as a percent.

Note: Harvest rates are calculated by dividing the harvest posterior by total run posterior distributions; therefore, mean harvest rate may not equal harvest rate calculated from numbers reported in the tables if distributions are highly skewed.

Note: Harvest rate for Asia and East of WASSIP were not calculated because they were not part of WASSIP plan.

^a Adjusted median; 1.28 times unadjusted median.

Table 72.—Toksook Bay, Subsistence, Kuskokwim Area, Arctic-Yukon-Kuskokwim Region, 2009, all strata. Reporting group-specific harvest and harvest rate estimates. Medians, 90% credibility intervals, the probability that reporting group harvest estimate is equal to zero ($P = 0$), means, and SDs are reported.

Reporting Group	Harvest = 2,042; 1 stratum						Harvest Rate (%)				
	Median ^a	90% CI		$P = 0$	Mean	SD	Median	90% CI		Mean	SD
		5%	95%					5%	95%		
Asia	0	0	0	0.97	0	2	—	—	—	—	—
Kotzebue Sound	0	0	0	0.97	0	3	0.0	0.0	0.0	0.0	0.0
CWAK	2,042	508	5,048	0.00	2,039	1,610	0.0	0.0	0.1	0.0	0.0
Upper Yukon River	0	0	0	0.96	0	6	0.0	0.0	0.0	0.0	0.0
Northern District	0	0	0	0.97	0	5	0.0	0.0	0.0	0.0	0.0
Northwestern District	0	0	0	0.97	0	2	0.0	0.0	0.0	0.0	0.0
South Peninsula	0	0	0	0.97	0	2	0.0	0.0	0.0	0.0	0.0
Chignik/Kodiak	0	0	0	0.97	0	3	0.0	0.0	0.0	0.0	0.0
East of Kodiak	0	0	0	0.97	0	2	—	—	—	—	—
Total	2,042				2,039						

Note: Harvest is the number of chum salmon reported to have been harvested in the area stratum.

Note: Harvest rate is the area stratum harvest divided by the total run within the WASSIP area for a given reporting group, expressed as a percent.

Note: Harvest rates are calculated by dividing the harvest posterior by total run posterior distributions; therefore, mean harvest rate may not equal harvest rate calculated from numbers reported in the tables if distributions are highly skewed.

Note: Harvest rate for Asia and East of WASSIP were not calculated because they were not part of WASSIP plan.

^a Adjusted median; 1.28 times unadjusted median.

Table 73.—District 1 marine areas excluding Black River (summer), Commercial, Yukon-Northern Area, Arctic-Yukon-Kuskokwim Region, 2007, all strata. Reporting group-specific harvest and harvest rate estimates. Medians, 90% credibility intervals, the probability that reporting group harvest estimate is equal to zero ($P = 0$), means, and SDs are reported.

Reporting Group	Harvest = 11,782; 3 strata						Harvest Rate (%)				
	Median ^a	90% CI		$P = 0$	Mean	SD	Median	90% CI		Mean	SD
		5%	95%					5%	95%		
Asia	8	0	56	0.27	15	20	—	—	—	—	—
Kotzebue Sound	0	0	2	0.91	1	7	0.0	0.0	0.0	0.0	0.0
CWAK	11,030	10,313	11,742	0.00	11,013	435	0.1	0.1	0.2	0.1	0.0
Upper Yukon River	744	454	1,082	0.00	751	191	0.1	0.0	0.1	0.1	0.0
Northern District	0	0	1	0.93	0	2	0.0	0.0	0.0	0.0	0.0
Northwestern District	0	0	1	0.94	0	2	0.0	0.0	0.0	0.0	0.0
South Peninsula	0	0	1	0.94	0	2	0.0	0.0	0.0	0.0	0.0
Chignik/Kodiak	0	0	1	0.93	0	2	0.0	0.0	0.0	0.0	0.0
East of Kodiak	0	0	1	0.93	0	2	—	—	—	—	—
Total	11,782				11,780						

Note: Harvest is the number of chum salmon reported to have been harvested in the area stratum.

Note: Harvest rate is the area stratum harvest divided by the total run within the WASSIP area for a given reporting group, expressed as a percent.

Note: Harvest rates are calculated by dividing the harvest posterior by total run posterior distributions; therefore, mean harvest rate may not equal harvest rate calculated from numbers reported in the tables if distributions are highly skewed.

Note: Harvest rate for Asia and East of WASSIP were not calculated because they were not part of WASSIP plan.

^aAdjusted median; 1.00 times unadjusted median.

Table 74.—District 1 marine areas excluding Black River (summer), Commercial, Yukon-Northern Area, Arctic-Yukon-Kuskokwim Region, 2008, all strata. Reporting group-specific harvest and harvest rate estimates. Medians, 90% credibility intervals, the probability that reporting group harvest estimate is equal to zero ($P = 0$), means, and SDs are reported.

Reporting Group	Harvest = 4,612; 2 strata						Harvest Rate (%)				
	Median ^a	90% CI		$P = 0$	Mean	SD	Median	90% CI		Mean	SD
		5%	95%					5%	95%		
Asia	0	0	0	0.96	0	1	—	—	—	—	—
Kotzebue Sound	0	0	1	0.94	0	2	0.0	0.0	0.0	0.0	0.0
CWAK	3,804	3,497	4,109	0.00	3,799	186	0.1	0.0	0.1	0.1	0.0
Upper Yukon River	808	600	1,035	0.00	811	132	0.1	0.1	0.1	0.1	0.0
Northern District	0	0	0	0.96	0	1	0.0	0.0	0.0	0.0	0.0
Northwestern District	0	0	0	0.96	0	1	0.0	0.0	0.0	0.0	0.0
South Peninsula	0	0	0	0.96	0	1	0.0	0.0	0.0	0.0	0.0
Chignik/Kodiak	0	0	1	0.95	0	1	0.0	0.0	0.0	0.0	0.0
East of Kodiak	0	0	1	0.94	0	2	—	—	—	—	—
Total	4,612				4,610						

Note: Harvest is the number of chum salmon reported to have been harvested in the area stratum.

Note: Harvest rate is the area stratum harvest divided by the total run within the WASSIP area for a given reporting group, expressed as a percent.

Note: Harvest rates are calculated by dividing the harvest posterior by total run posterior distributions; therefore, mean harvest rate may not equal harvest rate calculated from numbers reported in the tables if distributions are highly skewed.

Note: Harvest rate for Asia and East of WASSIP were not calculated because they were not part of WASSIP plan.

^a Adjusted median; 1.00 times unadjusted median.

Table 75.—District 1 marine areas excluding Black River (summer), Commercial, Yukon-Northern Area, Arctic-Yukon-Kuskokwim Region, 2009, all strata. Reporting group-specific harvest and harvest rate estimates. Medians, 90% credibility intervals, the probability that reporting group harvest estimate is equal to zero ($P = 0$), means, and SDs are reported.

Reporting Group	Harvest = 6,840; 3 strata						Harvest Rate (%)				
	Median ^a	90% CI		$P = 0$	Mean	SD	Median	90% CI		Mean	SD
		5%	95%					5%	95%		
Asia	0	0	1	0.93	0	2	—	—	—	—	—
Kotzebue Sound	0	0	6	0.88	1	6	0.0	0.0	0.0	0.0	0.0
CWAK	5,077	4,720	5,437	0.00	5,073	217	0.1	0.1	0.1	0.1	0.0
Upper Yukon River	1,763	1,497	2,039	0.00	1,764	165	0.3	0.3	0.4	0.3	0.0
Northern District	0	0	1	0.92	0	2	0.0	0.0	0.0	0.0	0.0
Northwestern District	0	0	1	0.94	0	1	0.0	0.0	0.0	0.0	0.0
South Peninsula	0	0	1	0.94	0	1	0.0	0.0	0.0	0.0	0.0
Chignik/Kodiak	0	0	1	0.94	0	1	0.0	0.0	0.0	0.0	0.0
East of Kodiak	0	0	1	0.94	0	1	—	—	—	—	—
Total	6,840				6,838						

Note: Harvest is the number of chum salmon reported to have been harvested in the area stratum.

Note: Harvest rate is the area stratum harvest divided by the total run within the WASSIP area for a given reporting group, expressed as a percent.

Note: Harvest rates are calculated by dividing the harvest posterior by total run posterior distributions; therefore, mean harvest rate may not equal harvest rate calculated from numbers reported in the tables if distributions are highly skewed.

Note: Harvest rate for Asia and East of WASSIP were not calculated because they were not part of WASSIP plan.

^a Adjusted median; 1.00 times unadjusted median.

Table 76.—District 1 Black River only (summer), Commercial, Yukon-Northern Area, Arctic-Yukon-Kuskokwim Region, 2007, all strata. Reporting group-specific harvest and harvest rate estimates. Medians, 90% credibility intervals, the probability that reporting group harvest estimate is equal to zero ($P = 0$), means, and SDs are reported.

Reporting Group	Harvest = 3,724; 3 strata						Harvest Rate (%)				
	Median ^a	90% CI		$P = 0$	Mean	SD	Median	90% CI		Mean	SD
		5%	95%					5%	95%		
Asia	0	0	0	0.95	0	2	—	—	—	—	—
Kotzebue Sound	0	0	1	0.94	0	4	0.0	0.0	0.0	0.0	0.0
CWAK	3,594	3,269	3,849	0.00	3,569	176	0.0	0.0	0.1	0.0	0.0
Upper Yukon River	130	2	383	0.00	154	122	0.0	0.0	0.0	0.0	0.0
Northern District	0	0	0	0.95	0	2	0.0	0.0	0.0	0.0	0.0
Northwestern District	0	0	0	0.95	0	2	0.0	0.0	0.0	0.0	0.0
South Peninsula	0	0	0	0.95	0	2	0.0	0.0	0.0	0.0	0.0
Chignik/Kodiak	0	0	0	0.95	0	2	0.0	0.0	0.0	0.0	0.0
East of Kodiak	0	0	1	0.95	0	2	—	—	—	—	—
Total	3,724				3,723						

Note: Harvest is the number of chum salmon reported to have been harvested in the area stratum.

Note: Harvest rate is the area stratum harvest divided by the total run within the WASSIP area for a given reporting group, expressed as a percent.

Note: Harvest rates are calculated by dividing the harvest posterior by total run posterior distributions; therefore, mean harvest rate may not equal harvest rate calculated from numbers reported in the tables if distributions are highly skewed.

Note: Harvest rate for Asia and East of WASSIP were not calculated because they were not part of WASSIP plan.

^a Adjusted median; 1.01 times unadjusted median.

Table 77.—District 1 Black River only (summer), Commercial, Yukon-Northern Area, Arctic-Yukon-Kuskokwim Region, 2008, all strata. Reporting group-specific harvest and harvest rate estimates. Medians, 90% credibility intervals, the probability that reporting group harvest estimate is equal to zero ($P = 0$), means, and SDs are reported.

Reporting Group	Harvest = 1,200; 2 strata						Harvest Rate (%)				
	Median ^a	90% CI		$P = 0$	Mean	SD	Median	90% CI		Mean	SD
		5%	95%					5%	95%		
Asia	0	0	0	0.98	0	0	—	—	—	—	—
Kotzebue Sound	0	0	0	0.97	0	1	0.0	0.0	0.0	0.0	0.0
CWAK	1,002	923	1,081	0.00	1,001	48	0.0	0.0	0.0	0.0	0.0
Upper Yukon River	198	145	256	0.00	199	34	0.0	0.0	0.0	0.0	0.0
Northern District	0	0	0	0.98	0	0	0.0	0.0	0.0	0.0	0.0
Northwestern District	0	0	0	0.98	0	0	0.0	0.0	0.0	0.0	0.0
South Peninsula	0	0	0	0.98	0	0	0.0	0.0	0.0	0.0	0.0
Chignik/Kodiak	0	0	0	0.97	0	0	0.0	0.0	0.0	0.0	0.0
East of Kodiak	0	0	0	0.96	0	0	—	—	—	—	—
Total	1,200				1,200						

Note: Harvest is the number of chum salmon reported to have been harvested in the area stratum.

Note: Harvest rate is the area stratum harvest divided by the total run within the WASSIP area for a given reporting group, expressed as a percent.

Note: Harvest rates are calculated by dividing the harvest posterior by total run posterior distributions; therefore, mean harvest rate may not equal harvest rate calculated from numbers reported in the tables if distributions are highly skewed.

Note: Harvest rate for Asia and East of WASSIP were not calculated because they were not part of WASSIP plan.

^a Adjusted median; 1.00 times unadjusted median.

Table 78.—District 1 Black River only (summer), Commercial, Yukon-Northern Area, Arctic-Yukon-Kuskokwim Region, 2009, all strata. Reporting group-specific harvest and harvest rate estimates. Medians, 90% credibility intervals, the probability that reporting group harvest estimate is equal to zero ($P = 0$), means, and SDs are reported.

Reporting Group	Harvest = 730; 2 strata						Harvest Rate (%)				
	Median ^a	90% CI		$P = 0$	Mean	SD	Median	90% CI		Mean	SD
		5%	95%					5%	95%		
Asia	0	0	0	0.99	0	0	—	—	—	—	—
Kotzebue Sound	0	0	0	0.97	0	1	0.0	0.0	0.0	0.0	0.0
CWAK	466	400	535	0.00	466	41	0.0	0.0	0.0	0.0	0.0
Upper Yukon River	264	204	326	0.00	264	37	0.0	0.0	0.1	0.0	0.0
Northern District	0	0	0	0.98	0	1	0.0	0.0	0.0	0.0	0.0
Northwestern District	0	0	0	0.99	0	0	0.0	0.0	0.0	0.0	0.0
South Peninsula	0	0	0	0.99	0	0	0.0	0.0	0.0	0.0	0.0
Chignik/Kodiak	0	0	0	0.99	0	0	0.0	0.0	0.0	0.0	0.0
East of Kodiak	0	0	0	0.99	0	0	—	—	—	—	—
Total	730				730						

Note: Harvest is the number of chum salmon reported to have been harvested in the area stratum.

Note: Harvest rate is the area stratum harvest divided by the total run within the WASSIP area for a given reporting group, expressed as a percent.

Note: Harvest rates are calculated by dividing the harvest posterior by total run posterior distributions; therefore, mean harvest rate may not equal harvest rate calculated from numbers reported in the tables if distributions are highly skewed.

Note: Harvest rate for Asia and East of WASSIP were not calculated because they were not part of WASSIP plan.

^a Adjusted median; 1.00 times unadjusted median.

Table 79.—Coastal District (Hooper Bay; summer), Subsistence, Yukon-Northern Area, Arctic-Yukon-Kuskokwim Region, 2007, all strata. Reporting group-specific harvest and harvest rate estimates. Medians, 90% credibility intervals, the probability that reporting group harvest estimate is equal to zero ($P = 0$), means, and SDs are reported.

Reporting Group	Harvest = 12,234; 1 stratum						Harvest Rate (%)				
	Median ^a	90% CI		$P = 0$	Mean	SD	Median	90% CI		Mean	SD
		5%	95%					5%	95%		
Asia	0	0	0	0.96	0	4	—	—	—	—	—
Kotzebue Sound	0	0	0	0.96	1	6	0.0	0.0	0.0	0.0	0.0
CWAK	12,234	10,326	14,318	0.00	12,226	1,219	0.1	0.1	0.2	0.1	0.0
Upper Yukon River	0	0	2	0.94	2	17	0.0	0.0	0.0	0.0	0.0
Northern District	0	0	0	0.96	0	4	0.0	0.0	0.0	0.0	0.0
Northwestern District	0	0	0	0.96	0	4	0.0	0.0	0.0	0.0	0.0
South Peninsula	0	0	0	0.96	0	4	0.0	0.0	0.0	0.0	0.0
Chignik/Kodiak	0	0	0	0.96	0	4	0.0	0.0	0.0	0.0	0.0
East of Kodiak	0	0	0	0.96	0	4	—	—	—	—	—
Total	12,234				12,229						

Note: Harvest is the number of chum salmon reported to have been harvested in the area stratum.

Note: Harvest rate is the area stratum harvest divided by the total run within the WASSIP area for a given reporting group, expressed as a percent.

Note: Harvest rates are calculated by dividing the harvest posterior by total run posterior distributions; therefore, mean harvest rate may not equal harvest rate calculated from numbers reported in the tables if distributions are highly skewed.

Note: Harvest rate for Asia and East of WASSIP were not calculated because they were not part of WASSIP plan.

^a Adjusted median; 1.01 times unadjusted median.

Table 80.—Coastal District (Hooper Bay; summer), Subsistence, Yukon-Northern Area, Arctic-Yukon-Kuskokwim Region, 2008, all strata. Reporting group-specific harvest and harvest rate estimates. Medians, 90% credibility intervals, the probability that reporting group harvest estimate is equal to zero ($P = 0$), means, and SDs are reported.

Reporting Group	Harvest = 12,007; 1 stratum						Harvest Rate (%)				
	Median ^a	90% CI		$P = 0$	Mean	SD	Median	90% CI		Mean	SD
		5%	95%					5%	95%		
Asia	0	0	0	0.96	1	6	—	—	—	—	—
Kotzebue Sound	0	0	1	0.95	2	13	0.0	0.0	0.0	0.0	0.0
CWAK	12,007	10,134	14,081	0.00	12,005	1,204	0.2	0.1	0.3	0.2	0.0
Upper Yukon River	0	0	1	0.95	2	20	0.0	0.0	0.0	0.0	0.0
Northern District	0	0	0	0.96	0	4	0.0	0.0	0.0	0.0	0.0
Northwestern District	0	0	0	0.96	0	3	0.0	0.0	0.0	0.0	0.0
South Peninsula	0	0	0	0.96	0	4	0.0	0.0	0.0	0.0	0.0
Chignik/Kodiak	0	0	0	0.96	0	4	0.0	0.0	0.0	0.0	0.0
East of Kodiak	0	0	0	0.96	0	3	—	—	—	—	—
Total	12,007				12,010						

Note: Harvest is the number of chum salmon reported to have been harvested in the area stratum.

Note: Harvest rate is the area stratum harvest divided by the total run within the WASSIP area for a given reporting group, expressed as a percent.

Note: Harvest rates are calculated by dividing the harvest posterior by total run posterior distributions; therefore, mean harvest rate may not equal harvest rate calculated from numbers reported in the tables if distributions are highly skewed.

Note: Harvest rate for Asia and East of WASSIP were not calculated because they were not part of WASSIP plan.

^a Adjusted median; 1.01 times unadjusted median.

Table 81.—Coastal District (Hooper Bay; summer), Subsistence, Yukon-Northern Area, Arctic-Yukon-Kuskokwim Region, 2009, all strata. Reporting group-specific harvest and harvest rate estimates. Medians, 90% credibility intervals, the probability that reporting group harvest estimate is equal to zero ($P = 0$), means, and SDs are reported.

Reporting Group	Harvest = 9,200; 1 stratum						Harvest Rate (%)				
	Median ^a	90% CI		$P = 0$	Mean	SD	Median	90% CI		Mean	SD
		5%	95%					5%	95%		
Asia	0	0	0	0.97	0	3	—	—	—	—	—
Kotzebue Sound	0	0	0	0.96	1	7	0.0	0.0	0.0	0.0	0.0
CWAK	9,200	7,761	10,772	0.00	9,193	919	0.1	0.1	0.2	0.2	0.0
Upper Yukon River	0	0	1	0.94	3	30	0.0	0.0	0.0	0.0	0.0
Northern District	0	0	0	0.95	1	5	0.0	0.0	0.0	0.0	0.0
Northwestern District	0	0	0	0.96	0	3	0.0	0.0	0.0	0.0	0.0
South Peninsula	0	0	1	0.94	1	6	0.0	0.0	0.0	0.0	0.0
Chignik/Kodiak	0	0	3	0.93	1	7	0.0	0.0	0.0	0.0	0.0
East of Kodiak	0	0	0	0.97	0	3	—	—	—	—	—
Total	9,200				9,200						

Note: Harvest is the number of chum salmon reported to have been harvested in the area stratum.

Note: Harvest rate is the area stratum harvest divided by the total run within the WASSIP area for a given reporting group, expressed as a percent.

Note: Harvest rates are calculated by dividing the harvest posterior by total run posterior distributions; therefore, mean harvest rate may not equal harvest rate calculated from numbers reported in the tables if distributions are highly skewed.

Note: Harvest rate for Asia and East of WASSIP were not calculated because they were not part of WASSIP plan.

^a Adjusted median; 1.01 times unadjusted median.

Table 82.—District 1 (Scammon Bay) Black River (summer), Subsistence, Yukon-Northern Area, Arctic-Yukon-Kuskokwim Region, 2007, all strata. Reporting group-specific harvest and harvest rate estimates. Medians, 90% credibility intervals, the probability that reporting group harvest estimate is equal to zero ($P = 0$), means, and SDs are reported.

Reporting Group	Harvest = 3,887; 1 stratum						Harvest Rate (%)				
	Median ^a	90% CI		$P = 0$	Mean	SD	Median	90% CI		Mean	SD
		5%	95%					5%	95%		
Asia	0	0	0	0.96	0	1	—	—	—	—	—
Kotzebue Sound	0	0	1	0.94	0	3	0.0	0.0	0.0	0.0	0.0
CWAK	3,685	3,101	4,320	0.00	3,679	372	0.0	0.0	0.1	0.0	0.0
Upper Yukon River	202	125	300	0.00	205	54	0.0	0.0	0.0	0.0	0.0
Northern District	0	0	0	0.96	0	1	0.0	0.0	0.0	0.0	0.0
Northwestern District	0	0	0	0.96	0	1	0.0	0.0	0.0	0.0	0.0
South Peninsula	0	0	0	0.96	0	1	0.0	0.0	0.0	0.0	0.0
Chignik/Kodiak	0	0	0	0.96	0	1	0.0	0.0	0.0	0.0	0.0
East of Kodiak	0	0	0	0.96	0	1	—	—	—	—	—
Total	3,887				3,884						

Note: Harvest is the number of chum salmon reported to have been harvested in the area stratum.

Note: Harvest rate is the area stratum harvest divided by the total run within the WASSIP area for a given reporting group, expressed as a percent.

Note: Harvest rates are calculated by dividing the harvest posterior by total run posterior distributions; therefore, mean harvest rate may not equal harvest rate calculated from numbers reported in the tables if distributions are highly skewed.

Note: Harvest rate for Asia and East of WASSIP were not calculated because they were not part of WASSIP plan.

^a Adjusted median; 1.01 times unadjusted median.

Table 83.—District 1 (Scammon Bay) Black River (summer), Subsistence, Yukon-Northern Area, Arctic-Yukon-Kuskokwim Region, 2008, all strata. Reporting group-specific harvest and harvest rate estimates. Medians, 90% credibility intervals, the probability that reporting group harvest estimate is equal to zero ($P = 0$), means, and SDs are reported.

Reporting Group	Harvest = 6,117; 1 stratum						Harvest Rate (%)				
	Median ^a	90% CI		$P = 0$	Mean	SD	Median	90% CI		Mean	SD
		5%	95%					5%	95%		
Asia	0	0	0	0.97	0	2	—	—	—	—	—
Kotzebue Sound	0	0	0	0.95	1	7	0.0	0.0	0.0	0.0	0.0
CWAK	5,744	4,830	6,743	0.00	5,735	584	0.1	0.1	0.1	0.1	0.0
Upper Yukon River	373	211	590	0.00	381	116	0.0	0.0	0.1	0.0	0.0
Northern District	0	0	0	0.97	0	2	0.0	0.0	0.0	0.0	0.0
Northwestern District	0	0	0	0.97	0	2	0.0	0.0	0.0	0.0	0.0
South Peninsula	0	0	0	0.97	0	2	0.0	0.0	0.0	0.0	0.0
Chignik/Kodiak	0	0	0	0.97	0	2	0.0	0.0	0.0	0.0	0.0
East of Kodiak	0	0	0	0.97	0	2	—	—	—	—	—
Total	6,117				6,117						

Note: Harvest is the number of chum salmon reported to have been harvested in the area stratum.

Note: Harvest rate is the area stratum harvest divided by the total run within the WASSIP area for a given reporting group, expressed as a percent.

Note: Harvest rates are calculated by dividing the harvest posterior by total run posterior distributions; therefore, mean harvest rate may not equal harvest rate calculated from numbers reported in the tables if distributions are highly skewed.

Note: Harvest rate for Asia and East of WASSIP were not calculated because they were not part of WASSIP plan.

^a Adjusted median; 1.01 times unadjusted median.

Table 84.—District 1 (Scammon Bay) Black River (summer), Subsistence, Yukon-Northern Area, Arctic-Yukon-Kuskokwim Region, 2009, all strata. Reporting group-specific harvest and harvest rate estimates. Medians, 90% credibility intervals, the probability that reporting group harvest estimate is equal to zero ($P = 0$), means, and SDs are reported.

Reporting Group	Harvest = 3,600; 1 stratum						Harvest Rate (%)				
	Median ^a	90% CI		$P = 0$	Mean	SD	Median	90% CI		Mean	SD
		5%	95%					5%	95%		
Asia	0	0	0	0.98	0	1	—	—	—	—	—
Kotzebue Sound	0	0	0	0.97	0	2	0.0	0.0	0.0	0.0	0.0
CWAK	3,472	2,917	4,074	0.00	3,468	352	0.1	0.0	0.1	0.1	0.0
Upper Yukon River	128	45	238	0.01	132	59	0.0	0.0	0.0	0.0	0.0
Northern District	0	0	0	0.98	0	1	0.0	0.0	0.0	0.0	0.0
Northwestern District	0	0	0	0.98	0	1	0.0	0.0	0.0	0.0	0.0
South Peninsula	0	0	0	0.98	0	1	0.0	0.0	0.0	0.0	0.0
Chignik/Kodiak	0	0	0	0.98	0	1	0.0	0.0	0.0	0.0	0.0
East of Kodiak	0	0	0	0.98	0	1	—	—	—	—	—
Total	3,600				3,600						

Note: Harvest is the number of chum salmon reported to have been harvested in the area stratum.

Note: Harvest rate is the area stratum harvest divided by the total run within the WASSIP area for a given reporting group, expressed as a percent.

Note: Harvest rates are calculated by dividing the harvest posterior by total run posterior distributions; therefore, mean harvest rate may not equal harvest rate calculated from numbers reported in the tables if distributions are highly skewed.

Note: Harvest rate for Asia and East of WASSIP were not calculated because they were not part of WASSIP plan.

^a Adjusted median; 1.01 times unadjusted median.

Table 85.—District 1 marine areas excluding Black River (fall), Commercial, Yukon-Northern Area, Arctic-Yukon-Kuskokwim Region, 2007, all strata. Reporting group-specific harvest and harvest rate estimates. Medians, 90% credibility intervals, the probability that reporting group harvest estimate is equal to zero ($P = 0$), means, and SDs are reported.

Reporting Group	Harvest = 38,852; 2 strata						Harvest Rate (%)				
	Median ^a	90% CI		$P = 0$	Mean	SD	Median	90% CI		Mean	SD
		5%	95%					5%	95%		
Asia	406	190	719	0.00	423	163	—	—	—	—	—
Kotzebue Sound	342	137	909	0.00	404	277	0.0	0.0	0.1	0.1	0.1
CWAK	1,257	214	2,560	0.01	1,307	706	0.0	0.0	0.0	0.0	0.0
Upper Yukon River	36,848	34,177	39,325	0.00	36,709	1,569	3.3	3.0	3.7	3.3	0.2
Northern District	0	0	5	0.91	2	20	0.0	0.0	0.0	0.0	0.0
Northwestern District	0	0	5	0.91	2	21	0.0	0.0	0.0	0.0	0.0
South Peninsula	0	0	4	0.91	2	19	0.0	0.0	0.0	0.0	0.0
Chignik/Kodiak	0	0	4	0.91	2	19	0.0	0.0	0.0	0.0	0.0
East of Kodiak	0	0	4	0.91	2	19	—	—	—	—	—
Total	38,853				38,853						

Note: Harvest is the number of chum salmon reported to have been harvested in the area stratum.

Note: Harvest rate is the area stratum harvest divided by the total run within the WASSIP area for a given reporting group, expressed as a percent.

Note: Harvest rates are calculated by dividing the harvest posterior by total run posterior distributions; therefore, mean harvest rate may not equal harvest rate calculated from numbers reported in the tables if distributions are highly skewed.

Note: Harvest rate for Asia and East of WASSIP were not calculated because they were not part of WASSIP plan.

^a Adjusted median; 1.00 times unadjusted median.

Table 86.—District 1 marine areas excluding Black River (fall), Commercial, Yukon-Northern Area, Arctic-Yukon-Kuskokwim Region, 2008, all strata. Reporting group-specific harvest and harvest rate estimates. Medians, 90% credibility intervals, the probability that reporting group harvest estimate is equal to zero ($P = 0$), means, and SDs are reported.

Reporting Group	Harvest = 67,704; 3 strata						Harvest Rate (%)				
	Median ^a	90% CI		$P = 0$	Mean	SD	Median	90% CI		Mean	SD
		5%	95%					5%	95%		
Asia	346	163	634	0.00	365	148	—	—	—	—	—
Kotzebue Sound	1,048	663	1,533	0.00	1,064	269	0.1	0.0	0.2	0.1	0.1
CWAK	9,738	7,980	11,723	0.00	9,758	1,143	0.2	0.1	0.2	0.2	0.0
Upper Yukon River	56,572	52,799	60,087	0.00	56,395	2,212	6.3	5.6	7.0	6.3	0.4
Northern District	0	0	350	0.61	62	133	0.0	0.0	0.0	0.0	0.0
Northwestern District	0	0	14	0.87	5	34	0.0	0.0	0.0	0.0	0.0
South Peninsula	0	0	11	0.87	4	29	0.0	0.0	0.0	0.0	0.0
Chignik/Kodiak	0	0	345	0.69	54	131	0.0	0.0	0.0	0.0	0.0
East of Kodiak	0	0	8	0.88	2	17	—	—	—	—	—
Total	67,704				67,709						

Note: Harvest is the number of chum salmon reported to have been harvested in the area stratum.

Note: Harvest rate is the area stratum harvest divided by the total run within the WASSIP area for a given reporting group, expressed as a percent.

Note: Harvest rates are calculated by dividing the harvest posterior by total run posterior distributions; therefore, mean harvest rate may not equal harvest rate calculated from numbers reported in the tables if distributions are highly skewed.

Note: Harvest rate for Asia and East of WASSIP were not calculated because they were not part of WASSIP plan.

^a Adjusted median; 1.00 times unadjusted median.

Table 87.—District 1 marine areas excluding Black River (fall), Commercial, Yukon-Northern Area, Arctic-Yukon-Kuskokwim Region, 2009, all strata. Reporting group-specific harvest and harvest rate estimates. Medians, 90% credibility intervals, the probability that reporting group harvest estimate is equal to zero ($P = 0$), means, and SDs are reported.

Reporting Group	Harvest = 11,911; 3 strata						Harvest Rate (%)				
	Median ^a	90% CI		$P = 0$	Mean	SD	Median	90% CI		Mean	SD
		5%	95%					5%	95%		
Asia	24	15	38	0.00	25	7	—	—	—	—	—
Kotzebue Sound	44	30	65	0.00	46	14	0.0	0.0	0.0	0.0	0.0
CWAK	2,908	2,371	3,512	0.00	2,917	348	0.0	0.0	0.1	0.0	0.0
Upper Yukon River	8,935	8,211	9,636	0.00	8,919	432	1.6	1.4	1.8	1.6	0.1
Northern District	0	0	2	0.91	1	5	0.0	0.0	0.0	0.0	0.0
Northwestern District	0	0	1	0.92	0	3	0.0	0.0	0.0	0.0	0.0
South Peninsula	0	0	1	0.92	0	3	0.0	0.0	0.0	0.0	0.0
Chignik/Kodiak	0	0	1	0.92	0	3	0.0	0.0	0.0	0.0	0.0
East of Kodiak	0	0	1	0.92	0	3	—	—	—	—	—
Total	11,911				11,908						

Note: Harvest is the number of chum salmon reported to have been harvested in the area stratum.

Note: Harvest rate is the area stratum harvest divided by the total run within the WASSIP area for a given reporting group, expressed as a percent.

Note: Harvest rates are calculated by dividing the harvest posterior by total run posterior distributions; therefore, mean harvest rate may not equal harvest rate calculated from numbers reported in the tables if distributions are highly skewed.

Note: Harvest rate for Asia and East of WASSIP were not calculated because they were not part of WASSIP plan.

^a Adjusted median; 1.00 times unadjusted median.

Table 88.—District 1 Black River only (fall), Commercial, Yukon-Northern Area, Arctic-Yukon-Kuskokwim Region, 2008, all strata. Reporting group-specific harvest and harvest rate estimates. Medians, 90% credibility intervals, the probability that reporting group harvest estimate is equal to zero ($P = 0$), means, and SDs are reported.

Reporting Group	Harvest = 22; 1 stratum						Harvest Rate (%)				
	Median ^a	90% CI		$P = 0$	Mean	SD	Median	90% CI		Mean	SD
		5%	95%					5%	95%		
Asia	0	0	0	1.00	0	0	—	—	—	—	—
Kotzebue Sound	0	0	0	1.00	0	0	0.0	0.0	0.0	0.0	0.0
CWAK	0	0	0	1.00	0	0	0.0	0.0	0.0	0.0	0.0
Upper Yukon River	22	20	24	0.00	22	1	0.0	0.0	0.0	0.0	0.0
Northern District	0	0	0	1.00	0	0	0.0	0.0	0.0	0.0	0.0
Northwestern District	0	0	0	1.00	0	0	0.0	0.0	0.0	0.0	0.0
South Peninsula	0	0	0	1.00	0	0	0.0	0.0	0.0	0.0	0.0
Chignik/Kodiak	0	0	0	1.00	0	0	0.0	0.0	0.0	0.0	0.0
East of Kodiak	0	0	0	1.00	0	0	—	—	—	—	—
Total	22				22						

Note: Harvest is the number of chum salmon reported to have been harvested in the area stratum.

Note: Harvest rate is the area stratum harvest divided by the total run within the WASSIP area for a given reporting group, expressed as a percent.

Note: Harvest rates are calculated by dividing the harvest posterior by total run posterior distributions; therefore, mean harvest rate may not equal harvest rate calculated from numbers reported in the tables if distributions are highly skewed.

Note: Harvest rate for Asia and East of WASSIP were not calculated because they were not part of WASSIP plan.

^a Adjusted median; 1.00 times unadjusted median.

Table 89.—Subdistrict 6 Unalakleet, Subsistence and Commercial, Norton Sound-Port Clarence Area, Arctic-Yukon-Kuskokwim Region, 2007, all strata. Reporting group-specific harvest and harvest rate estimates. Medians, 90% credibility intervals, the probability that reporting group harvest estimate is equal to zero ($P = 0$), means, and SDs are reported.

Reporting Group	Harvest = 13,882; 4 strata						Harvest Rate (%)				
	Median ^a	90% CI		$P = 0$	Mean	SD	Median	90% CI		Mean	SD
		5%	95%					5%	95%		
Asia	0	0	0	0.95	0	3	—	—	—	—	—
Kotzebue Sound	2	0	246	0.45	48	93	0.0	0.0	0.0	0.0	0.0
CWAK	13,880	13,131	14,546	0.00	13,831	430	0.2	0.1	0.2	0.2	0.0
Upper Yukon River	0	0	1	0.94	1	7	0.0	0.0	0.0	0.0	0.0
Northern District	0	0	3	0.92	1	6	0.0	0.0	0.0	0.0	0.0
Northwestern District	0	0	0	0.95	0	3	0.0	0.0	0.0	0.0	0.0
South Peninsula	0	0	0	0.95	0	2	0.0	0.0	0.0	0.0	0.0
Chignik/Kodiak	0	0	0	0.95	0	3	0.0	0.0	0.0	0.0	0.0
East of Kodiak	0	0	0	0.95	0	3	—	—	—	—	—
Total	13,882				13,881						

Note: Harvest is the number of chum salmon reported to have been harvested in the area stratum.

Note: Harvest rate is the area stratum harvest divided by the total run within the WASSIP area for a given reporting group, expressed as a percent.

Note: Harvest rates are calculated by dividing the harvest posterior by total run posterior distributions; therefore, mean harvest rate may not equal harvest rate calculated from numbers reported in the tables if distributions are highly skewed.

Note: Harvest rate for Asia and East of WASSIP were not calculated because they were not part of WASSIP plan.

^a Adjusted median; 1.00 times unadjusted median.

Table 90.—Subdistrict 6 Unalakleet, Subsistence and Commercial, Norton Sound-Port Clarence Area, Arctic-Yukon-Kuskokwim Region, 2008, all strata. Reporting group-specific harvest and harvest rate estimates. Medians, 90% credibility intervals, the probability that reporting group harvest estimate is equal to zero ($P = 0$), means, and SDs are reported.

Reporting Group	Harvest = 20,348; 4 strata						Harvest Rate (%)				
	Median ^a	90% CI		$P = 0$	Mean	SD	Median	90% CI		Mean	SD
		5%	95%					5%	95%		
Asia	0	0	10	0.87	2	9	—	—	—	—	—
Kotzebue Sound	479	0	1,028	0.13	464	342	0.0	0.0	0.1	0.0	0.0
CWAK	19,869	18,711	21,056	0.00	19,867	713	0.3	0.2	0.4	0.3	0.1
Upper Yukon River	0	0	98	0.73	13	42	0.0	0.0	0.0	0.0	0.0
Northern District	0	0	5	0.89	1	7	0.0	0.0	0.0	0.0	0.0
Northwestern District	0	0	2	0.92	1	4	0.0	0.0	0.0	0.0	0.0
South Peninsula	0	0	2	0.92	1	4	0.0	0.0	0.0	0.0	0.0
Chignik/Kodiak	0	0	2	0.91	1	4	0.0	0.0	0.0	0.0	0.0
East of Kodiak	0	0	3	0.91	1	5	—	—	—	—	—
Total	20,348				20,351						

Note: Harvest is the number of chum salmon reported to have been harvested in the area stratum.

Note: Harvest rate is the area stratum harvest divided by the total run within the WASSIP area for a given reporting group, expressed as a percent.

Note: Harvest rates are calculated by dividing the harvest posterior by total run posterior distributions; therefore, mean harvest rate may not equal harvest rate calculated from numbers reported in the tables if distributions are highly skewed.

Note: Harvest rate for Asia and East of WASSIP were not calculated because they were not part of WASSIP plan.

^a Adjusted median; 1.00 times unadjusted median.

Table 91.—Subdistrict 6 Unalakleet, Subsistence and Commercial, Norton Sound-Port Clarence Area, Arctic-Yukon-Kuskokwim Region, 2009, all strata. Reporting group-specific harvest and harvest rate estimates. Medians, 90% credibility intervals, the probability that reporting group harvest estimate is equal to zero ($P = 0$), means, and SDs are reported.

Reporting Group	Harvest = 22,147; 4 strata						Harvest Rate (%)				
	Median ^a	90% CI		$P = 0$	Mean	SD	Median	90% CI		Mean	SD
		5%	95%					5%	95%		
Asia	0	0	13	0.87	4	18	—	—	—	—	—
Kotzebue Sound	0	0	280	0.64	39	108	0.0	0.0	0.0	0.0	0.0
CWAK	22,040	20,935	23,053	0.00	21,982	645	0.4	0.3	0.5	0.4	0.1
Upper Yukon River	107	0	332	0.29	121	116	0.0	0.0	0.1	0.0	0.0
Northern District	0	0	4	0.90	1	6	0.0	0.0	0.0	0.0	0.0
Northwestern District	0	0	2	0.91	1	4	0.0	0.0	0.0	0.0	0.0
South Peninsula	0	0	2	0.91	1	4	0.0	0.0	0.0	0.0	0.0
Chignik/Kodiak	0	0	2	0.91	1	4	0.0	0.0	0.0	0.0	0.0
East of Kodiak	0	0	2	0.91	1	4	—	—	—	—	—
Total	22,147				22,151						

Note: Harvest is the number of chum salmon reported to have been harvested in the area stratum.

Note: Harvest rate is the area stratum harvest divided by the total run within the WASSIP area for a given reporting group, expressed as a percent.

Note: Harvest rates are calculated by dividing the harvest posterior by total run posterior distributions; therefore, mean harvest rate may not equal harvest rate calculated from numbers reported in the tables if distributions are highly skewed.

Note: Harvest rate for Asia and East of WASSIP were not calculated because they were not part of WASSIP plan.

^a Adjusted median; 1.00 times unadjusted median.

Table 92.–Subdistrict 5 Shaktoolik, Subsistence and Commercial, Norton Sound-Port Clarence Area, Arctic-Yukon-Kuskokwim Region, 2007, all strata. Reporting group-specific harvest and harvest rate estimates. Medians, 90% credibility intervals, the probability that reporting group harvest estimate is equal to zero ($P = 0$), means, and SDs are reported.

Reporting Group	Harvest = 6,541; 4 strata						Harvest Rate (%)				
	Median ^a	90% CI		$P = 0$	Mean	SD	Median	90% CI		Mean	SD
		5%	95%					5%	95%		
Asia	0	0	0	0.96	0	2	–	–	–	–	–
Kotzebue Sound	579	332	863	0.00	586	163	0.1	0.0	0.2	0.1	0.1
CWAK	5,962	5,564	6,345	0.00	5,953	238	0.1	0.0	0.1	0.1	0.0
Upper Yukon River	0	0	3	0.92	1	5	0.0	0.0	0.0	0.0	0.0
Northern District	0	0	0	0.95	0	2	0.0	0.0	0.0	0.0	0.0
Northwestern District	0	0	0	0.96	0	1	0.0	0.0	0.0	0.0	0.0
South Peninsula	0	0	0	0.96	0	1	0.0	0.0	0.0	0.0	0.0
Chignik/Kodiak	0	0	0	0.96	0	1	0.0	0.0	0.0	0.0	0.0
East of Kodiak	0	0	0	0.96	0	1	–	–	–	–	–
Total	6,541				6,540						

Note: Harvest is the number of chum salmon reported to have been harvested in the area stratum.

Note: Harvest rate is the area stratum harvest divided by the total run within the WASSIP area for a given reporting group, expressed as a percent.

Note: Harvest rates are calculated by dividing the harvest posterior by total run posterior distributions; therefore, mean harvest rate may not equal harvest rate calculated from numbers reported in the tables if distributions are highly skewed.

Note: Harvest rate for Asia and East of WASSIP were not calculated because they were not part of WASSIP plan.

^a Adjusted median; 1.00 times unadjusted median.

Table 93.—Subdistrict 5 Shaktoolik, Subsistence and Commercial, Norton Sound-Port Clarence Area, Arctic-Yukon-Kuskokwim Region, 2008, all strata. Reporting group-specific harvest and harvest rate estimates. Medians, 90% credibility intervals, the probability that reporting group harvest estimate is equal to zero ($P = 0$), means, and SDs are reported.

Reporting Group	Harvest = 6,242; 4 strata						Harvest Rate (%)				
	Median ^a	90% CI		$P = 0$	Mean	SD	Median	90% CI		Mean	SD
		5%	95%					5%	95%		
Asia	0	0	6	0.85	1	3	—	—	—	—	—
Kotzebue Sound	232	103	411	0.00	240	95	0.0	0.0	0.1	0.0	0.0
CWAK	6,004	5,665	6,305	0.00	5,985	195	0.1	0.1	0.1	0.1	0.0
Upper Yukon River	0	0	28	0.58	6	11	0.0	0.0	0.0	0.0	0.0
Northern District	0	0	1	0.93	0	1	0.0	0.0	0.0	0.0	0.0
Northwestern District	0	0	2	0.92	0	2	0.0	0.0	0.0	0.0	0.0
South Peninsula	0	0	1	0.93	0	2	0.0	0.0	0.0	0.0	0.0
Chignik/Kodiak	0	0	2	0.91	1	3	0.0	0.0	0.0	0.0	0.0
East of Kodiak	6	0	27	0.08	9	9	—	—	—	—	—
Total	6,242				6,242						

Note: Harvest is the number of chum salmon reported to have been harvested in the area stratum.

Note: Harvest rate is the area stratum harvest divided by the total run within the WASSIP area for a given reporting group, expressed as a percent.

Note: Harvest rates are calculated by dividing the harvest posterior by total run posterior distributions; therefore, mean harvest rate may not equal harvest rate calculated from numbers reported in the tables if distributions are highly skewed.

Note: Harvest rate for Asia and East of WASSIP were not calculated because they were not part of WASSIP plan.

^a Adjusted median; 1.00 times unadjusted median.

Table 94.—Subdistrict 5 Shaktoolik, Subsistence and Commercial, Norton Sound-Port Clarence Area, Arctic-Yukon-Kuskokwim Region, 2009, all strata. Reporting group-specific harvest and harvest rate estimates. Medians, 90% credibility intervals, the probability that reporting group harvest estimate is equal to zero ($P = 0$), means, and SDs are reported.

Reporting Group	Harvest = 11,341; 4 strata						Harvest Rate (%)				
	Median ^a	90% CI		$P = 0$	Mean	SD	Median	90% CI		Mean	SD
		5%	95%					5%	95%		
Asia	0	0	3	0.91	1	6	—	—	—	—	—
Kotzebue Sound	1	0	458	0.47	88	170	0.0	0.0	0.1	0.0	0.0
CWAK	11,340	10,533	11,954	0.00	11,247	433	0.2	0.1	0.2	0.2	0.0
Upper Yukon River	0	0	18	0.82	3	12	0.0	0.0	0.0	0.0	0.0
Northern District	0	0	3	0.91	1	7	0.0	0.0	0.0	0.0	0.0
Northwestern District	0	0	2	0.91	1	6	0.0	0.0	0.0	0.0	0.0
South Peninsula	0	0	3	0.91	1	7	0.0	0.0	0.0	0.0	0.0
Chignik/Kodiak	0	0	3	0.90	1	8	0.0	0.0	0.0	0.0	0.0
East of Kodiak	0	0	3	0.91	1	7	—	—	—	—	—
Total	11,341				11,344						

Note: Harvest is the number of chum salmon reported to have been harvested in the area stratum.

Note: Harvest rate is the area stratum harvest divided by the total run within the WASSIP area for a given reporting group, expressed as a percent.

Note: Harvest rates are calculated by dividing the harvest posterior by total run posterior distributions; therefore, mean harvest rate may not equal harvest rate calculated from numbers reported in the tables if distributions are highly skewed.

Note: Harvest rate for Asia and East of WASSIP were not calculated because they were not part of WASSIP plan.

^a Adjusted median; 1.01 times unadjusted median.

Table 95.—Subdistrict 3 Moses Point, Subsistence and Commercial, Norton Sound-Port Clarence Area, Arctic-Yukon-Kuskokwim Region, 2007, all strata. Reporting group-specific harvest and harvest rate estimates. Medians, 90% credibility intervals, the probability that reporting group harvest estimate is equal to zero ($P = 0$), means, and SDs are reported.

Reporting Group	Harvest = 6,901; 2 strata						Harvest Rate (%)				
	Median ^a	90% CI		$P = 0$	Mean	SD	Median	90% CI		Mean	SD
		5%	95%					5%	95%		
Asia	0	0	1	0.94	0	2	—	—	—	—	—
Kotzebue Sound	248	41	453	0.03	250	120	0.0	0.0	0.1	0.0	0.0
CWAK	6,653	6,104	7,220	0.00	6,646	339	0.1	0.1	0.1	0.1	0.0
Upper Yukon River	0	0	3	0.91	1	6	0.0	0.0	0.0	0.0	0.0
Northern District	0	0	1	0.94	0	2	0.0	0.0	0.0	0.0	0.0
Northwestern District	0	0	1	0.95	0	2	0.0	0.0	0.0	0.0	0.0
South Peninsula	0	0	1	0.94	0	2	0.0	0.0	0.0	0.0	0.0
Chignik/Kodiak	0	0	1	0.95	0	2	0.0	0.0	0.0	0.0	0.0
East of Kodiak	0	0	1	0.95	0	2	—	—	—	—	—
Total	6,901				6,897						

Note: Harvest is the number of chum salmon reported to have been harvested in the area stratum.

Note: Harvest rate is the area stratum harvest divided by the total run within the WASSIP area for a given reporting group, expressed as a percent.

Note: Harvest rates are calculated by dividing the harvest posterior by total run posterior distributions; therefore, mean harvest rate may not equal harvest rate calculated from numbers reported in the tables if distributions are highly skewed.

Note: Harvest rate for Asia and East of WASSIP were not calculated because they were not part of WASSIP plan.

^a Adjusted median; 1.00 times unadjusted median.

Table 96.—Subdistrict 3 Moses Point, Subsistence and Commercial, Norton Sound-Port Clarence Area, Arctic-Yukon-Kuskokwim Region, 2008, all strata. Reporting group-specific harvest and harvest rate estimates. Medians, 90% credibility intervals, the probability that reporting group harvest estimate is equal to zero ($P = 0$), means, and SDs are reported.

Reporting Group	Harvest = 1,588; 2 strata						Harvest Rate (%)				
	Median ^a	90% CI		$P = 0$	Mean	SD	Median	90% CI		Mean	SD
		5%	95%					5%	95%		
Asia	0	0	0	0.96	0	1	—	—	—	—	—
Kotzebue Sound	0	0	12	0.75	2	5	0.0	0.0	0.0	0.0	0.0
CWAK	1,588	1,384	1,808	0.00	1,585	129	0.0	0.0	0.0	0.0	0.0
Upper Yukon River	0	0	0	0.95	0	2	0.0	0.0	0.0	0.0	0.0
Northern District	0	0	0	0.96	0	1	0.0	0.0	0.0	0.0	0.0
Northwestern District	0	0	0	0.97	0	1	0.0	0.0	0.0	0.0	0.0
South Peninsula	0	0	0	0.97	0	1	0.0	0.0	0.0	0.0	0.0
Chignik/Kodiak	0	0	0	0.97	0	1	0.0	0.0	0.0	0.0	0.0
East of Kodiak	0	0	0	0.97	0	1	—	—	—	—	—
Total	1,588				1,587						

Note: Harvest is the number of chum salmon reported to have been harvested in the area stratum.

Note: Harvest rate is the area stratum harvest divided by the total run within the WASSIP area for a given reporting group, expressed as a percent.

Note: Harvest rates are calculated by dividing the harvest posterior by total run posterior distributions; therefore, mean harvest rate may not equal harvest rate calculated from numbers reported in the tables if distributions are highly skewed.

Note: Harvest rate for Asia and East of WASSIP were not calculated because they were not part of WASSIP plan.

^a Adjusted median; 1.01 times unadjusted median.

Table 97.—Subdistrict 3 Moses Point, Subsistence and Commercial, Norton Sound-Port Clarence Area, Arctic-Yukon-Kuskokwim Region, 2009, all strata. Reporting group-specific harvest and harvest rate estimates. Medians, 90% credibility intervals, the probability that reporting group harvest estimate is equal to zero ($P = 0$), means, and SDs are reported.

Reporting Group	Harvest = 1,197; 2 strata						Harvest Rate (%)				
	Median ^a	90% CI		$P = 0$	Mean	SD	Median	90% CI		Mean	SD
		5%	95%					5%	95%		
Asia	0	0	0	0.97	0	1	—	—	—	—	—
Kotzebue Sound	31	5	56	0.03	31	15	0.0	0.0	0.0	0.0	0.0
CWAK	1,166	1,058	1,281	0.00	1,165	68	0.0	0.0	0.0	0.0	0.0
Upper Yukon River	0	0	1	0.95	0	1	0.0	0.0	0.0	0.0	0.0
Northern District	0	0	0	0.97	0	1	0.0	0.0	0.0	0.0	0.0
Northwestern District	0	0	0	0.97	0	1	0.0	0.0	0.0	0.0	0.0
South Peninsula	0	0	0	0.97	0	1	0.0	0.0	0.0	0.0	0.0
Chignik/Kodiak	0	0	0	0.97	0	1	0.0	0.0	0.0	0.0	0.0
East of Kodiak	0	0	0	0.97	0	1	—	—	—	—	—
Total	1,197				1,196						

Note: Harvest is the number of chum salmon reported to have been harvested in the area stratum.

Note: Harvest rate is the area stratum harvest divided by the total run within the WASSIP area for a given reporting group, expressed as a percent.

Note: Harvest rates are calculated by dividing the harvest posterior by total run posterior distributions; therefore, mean harvest rate may not equal harvest rate calculated from numbers reported in the tables if distributions are highly skewed.

Note: Harvest rate for Asia and East of WASSIP were not calculated because they were not part of WASSIP plan.

^a Adjusted median; 1.00 times unadjusted median.

Table 98.—Subdistrict 2 Golovin Bay, Subsistence and Commercial, Norton Sound-Port Clarence Area, Arctic-Yukon-Kuskokwim Region, 2007, all strata. Reporting group-specific harvest and harvest rate estimates. Medians, 90% credibility intervals, the probability that reporting group harvest estimate is equal to zero ($P = 0$), means, and SDs are reported.

Reporting Group	Harvest = 4,217; 1 stratum						Harvest Rate (%)				
	Median ^a	90% CI		$P = 0$	Mean	SD	Median	90% CI		Mean	SD
		5%	95%					5%	95%		
Asia	0	0	0	1.00	0	0	—	—	—	—	—
Kotzebue Sound	0	0	0	1.00	0	0	0.0	0.0	0.0	0.0	0.0
CWAK	4,217	3,558	4,940	0.00	4,216	422	0.1	0.0	0.1	0.1	0.0
Upper Yukon River	0	0	0	1.00	0	0	0.0	0.0	0.0	0.0	0.0
Northern District	0	0	0	1.00	0	0	0.0	0.0	0.0	0.0	0.0
Northwestern District	0	0	0	1.00	0	0	0.0	0.0	0.0	0.0	0.0
South Peninsula	0	0	0	1.00	0	0	0.0	0.0	0.0	0.0	0.0
Chignik/Kodiak	0	0	0	1.00	0	0	0.0	0.0	0.0	0.0	0.0
East of Kodiak	0	0	0	1.00	0	0	—	—	—	—	—
Total	4,217				4,216						

Note: Harvest is the number of chum salmon reported to have been harvested in the area stratum.

Note: Harvest rate is the area stratum harvest divided by the total run within the WASSIP area for a given reporting group, expressed as a percent.

Note: Harvest rates are calculated by dividing the harvest posterior by total run posterior distributions; therefore, mean harvest rate may not equal harvest rate calculated from numbers reported in the tables if distributions are highly skewed.

Note: Harvest rate for Asia and East of WASSIP were not calculated because they were not part of WASSIP plan.

^a Adjusted median; 1.00 times unadjusted median.

Table 99.—Subdistrict 2 Golovin Bay, Subsistence and Commercial, Norton Sound-Port Clarence Area, Arctic-Yukon-Kuskokwim Region, 2008, all strata. Reporting group-specific harvest and harvest rate estimates. Medians, 90% credibility intervals, the probability that reporting group harvest estimate is equal to zero ($P = 0$), means, and SDs are reported.

Reporting Group	Harvest = 973; 2 strata						Harvest Rate (%)				
	Median ^a	90% CI		$P = 0$	Mean	SD	Median	90% CI		Mean	SD
		5%	95%					5%	95%		
Asia	0	0	0	0.98	0	0	—	—	—	—	—
Kotzebue Sound	0	0	0	0.96	0	2	0.0	0.0	0.0	0.0	0.0
CWAK	973	897	1,051	0.00	972	47	0.0	0.0	0.0	0.0	0.0
Upper Yukon River	0	0	0	0.96	0	2	0.0	0.0	0.0	0.0	0.0
Northern District	0	0	0	0.98	0	1	0.0	0.0	0.0	0.0	0.0
Northwestern District	0	0	0	0.99	0	0	0.0	0.0	0.0	0.0	0.0
South Peninsula	0	0	0	1.00	0	0	0.0	0.0	0.0	0.0	0.0
Chignik/Kodiak	0	0	0	0.99	0	0	0.0	0.0	0.0	0.0	0.0
East of Kodiak	0	0	0	0.99	0	0	—	—	—	—	—
Total	973				972						

Note: Harvest is the number of chum salmon reported to have been harvested in the area stratum.

Note: Harvest rate is the area stratum harvest divided by the total run within the WASSIP area for a given reporting group, expressed as a percent.

Note: Harvest rates are calculated by dividing the harvest posterior by total run posterior distributions; therefore, mean harvest rate may not equal harvest rate calculated from numbers reported in the tables if distributions are highly skewed.

Note: Harvest rate for Asia and East of WASSIP were not calculated because they were not part of WASSIP plan.

^a Adjusted median; 1.00 times unadjusted median.

Table 100.—Subdistrict 2 Golovin Bay, Subsistence and Commercial, Norton Sound-Port Clarence Area, Arctic-Yukon-Kuskokwim Region, 2009, all strata. Reporting group-specific harvest and harvest rate estimates. Medians, 90% credibility intervals, the probability that reporting group harvest estimate is equal to zero ($P = 0$), means, and SDs are reported.

Reporting Group	Harvest = 1,781; 2 strata						Harvest Rate (%)				
	Median ^a	90% CI		$P = 0$	Mean	SD	Median	90% CI		Mean	SD
		5%	95%					5%	95%		
Asia	0	0	0	1.00	0	0	—	—	—	—	—
Kotzebue Sound	0	0	0	0.98	0	0	0.0	0.0	0.0	0.0	0.0
CWAK	1,781	1,519	2,073	0.00	1,781	169	0.0	0.0	0.0	0.0	0.0
Upper Yukon River	0	0	0	0.98	0	0	0.0	0.0	0.0	0.0	0.0
Northern District	0	0	0	0.99	0	0	0.0	0.0	0.0	0.0	0.0
Northwestern District	0	0	0	1.00	0	0	0.0	0.0	0.0	0.0	0.0
South Peninsula	0	0	0	1.00	0	0	0.0	0.0	0.0	0.0	0.0
Chignik/Kodiak	0	0	0	1.00	0	0	0.0	0.0	0.0	0.0	0.0
East of Kodiak	0	0	0	1.00	0	0	—	—	—	—	—
Total	1,781				1,781						

Note: Harvest is the number of chum salmon reported to have been harvested in the area stratum.

Note: Harvest rate is the area stratum harvest divided by the total run within the WASSIP area for a given reporting group, expressed as a percent.

Note: Harvest rates are calculated by dividing the harvest posterior by total run posterior distributions; therefore, mean harvest rate may not equal harvest rate calculated from numbers reported in the tables if distributions are highly skewed.

Note: Harvest rate for Asia and East of WASSIP were not calculated because they were not part of WASSIP plan.

^a Adjusted median; 1.01 times unadjusted median.

Table 101.–Stebbins area, Subsistence, Norton Sound-Port Clarence Area, Arctic-Yukon-Kuskokwim Region, 2007, all strata. Reporting group-specific harvest and harvest rate estimates. Medians, 90% credibility intervals, the probability that reporting group harvest estimate is equal to zero ($P = 0$), means, and SDs are reported.

Reporting Group	Harvest = 4,980; 1 stratum						Harvest Rate (%)				
	Median ^a	90% CI		$P = 0$	Mean	SD	Median	90% CI		Mean	SD
		5%	95%					5%	95%		
Asia	0	0	0	0.96	0	2	–	–	–	–	–
Kotzebue Sound	0	0	46	0.83	6	26	0.0	0.0	0.0	0.0	0.0
CWAK	4,953	4,154	5,781	0.00	4,926	497	0.1	0.0	0.1	0.1	0.0
Upper Yukon River	27	0	169	0.24	46	58	0.0	0.0	0.0	0.0	0.0
Northern District	0	0	0	0.97	0	2	0.0	0.0	0.0	0.0	0.0
Northwestern District	0	0	0	0.97	0	1	0.0	0.0	0.0	0.0	0.0
South Peninsula	0	0	0	0.97	0	1	0.0	0.0	0.0	0.0	0.0
Chignik/Kodiak	0	0	0	0.97	0	1	0.0	0.0	0.0	0.0	0.0
East of Kodiak	0	0	1	0.93	0	2	–	–	–	–	–
Total	4,980				4,978						

Note: Harvest is the number of chum salmon reported to have been harvested in the area stratum.

Note: Harvest rate is the area stratum harvest divided by the total run within the WASSIP area for a given reporting group, expressed as a percent.

Note: Harvest rates are calculated by dividing the harvest posterior by total run posterior distributions; therefore, mean harvest rate may not equal harvest rate calculated from numbers reported in the tables if distributions are highly skewed.

Note: Harvest rate for Asia and East of WASSIP were not calculated because they were not part of WASSIP plan.

^a Adjusted median; 1.01 times unadjusted median.

Table 102.–Stebbins area, Subsistence, Norton Sound-Port Clarence Area, Arctic-Yukon-Kuskokwim Region, 2008, all strata. Reporting group-specific harvest and harvest rate estimates. Medians, 90% credibility intervals, the probability that reporting group harvest estimate is equal to zero ($P = 0$), means, and SDs are reported.

Reporting Group	Harvest = 4,116; 1 stratum						Harvest Rate (%)				
	Median ^a	90% CI		$P = 0$	Mean	SD	Median	90% CI		Mean	SD
		5%	95%					5%	95%		
Asia	0	0	0	0.96	1	6	–	–	–	–	–
Kotzebue Sound	0	0	1	0.95	2	16	0.0	0.0	0.0	0.0	0.0
CWAK	4,116	2,128	6,930	0.00	4,096	1,514	0.1	0.0	0.1	0.1	0.0
Upper Yukon River	0	0	57	0.86	9	36	0.0	0.0	0.0	0.0	0.0
Northern District	0	0	0	0.96	0	5	0.0	0.0	0.0	0.0	0.0
Northwestern District	0	0	0	0.96	0	5	0.0	0.0	0.0	0.0	0.0
South Peninsula	0	0	0	0.96	0	4	0.0	0.0	0.0	0.0	0.0
Chignik/Kodiak	0	0	0	0.96	0	5	0.0	0.0	0.0	0.0	0.0
East of Kodiak	0	0	0	0.96	0	5	–	–	–	–	–
Total	4,116				4,108						

Note: Harvest is the number of chum salmon reported to have been harvested in the area stratum.

Note: Harvest rate is the area stratum harvest divided by the total run within the WASSIP area for a given reporting group, expressed as a percent.

Note: Harvest rates are calculated by dividing the harvest posterior by total run posterior distributions; therefore, mean harvest rate may not equal harvest rate calculated from numbers reported in the tables if distributions are highly skewed.

Note: Harvest rate for Asia and East of WASSIP were not calculated because they were not part of WASSIP plan.

^a Adjusted median; 1.07 times unadjusted median.

Table 103.–Stebbins area, Subsistence, Norton Sound-Port Clarence Area, Arctic-Yukon-Kuskokwim Region, 2009, all strata. Reporting group-specific harvest and harvest rate estimates. Medians, 90% credibility intervals, the probability that reporting group harvest estimate is equal to zero ($P = 0$), means, and SDs are reported.

Reporting Group	Harvest = 1,461; 1 stratum						Harvest Rate (%)				
	Median ^a	90% CI		$P = 0$	Mean	SD	Median	90% CI		Mean	SD
		5%	95%					5%	95%		
Asia	0	0	0	0.96	0	1	–	–	–	–	–
Kotzebue Sound	0	0	11	0.84	2	6	0.0	0.0	0.0	0.0	0.0
CWAK	1,454	1,222	1,700	0.00	1,448	145	0.0	0.0	0.0	0.0	0.0
Upper Yukon River	7	0	40	0.23	11	14	0.0	0.0	0.0	0.0	0.0
Northern District	0	0	0	0.97	0	1	0.0	0.0	0.0	0.0	0.0
Northwestern District	0	0	0	0.97	0	0	0.0	0.0	0.0	0.0	0.0
South Peninsula	0	0	0	0.97	0	0	0.0	0.0	0.0	0.0	0.0
Chignik/Kodiak	0	0	0	0.97	0	0	0.0	0.0	0.0	0.0	0.0
East of Kodiak	0	0	0	0.95	0	1	–	–	–	–	–
Total	1,461				1,461						

Note: Harvest is the number of chum salmon reported to have been harvested in the area stratum.

Note: Harvest rate is the area stratum harvest divided by the total run within the WASSIP area for a given reporting group, expressed as a percent.

Note: Harvest rates are calculated by dividing the harvest posterior by total run posterior distributions; therefore, mean harvest rate may not equal harvest rate calculated from numbers reported in the tables if distributions are highly skewed.

Note: Harvest rate for Asia and East of WASSIP were not calculated because they were not part of WASSIP plan.

^a Adjusted median; 1.01 times unadjusted median.

Table 104.—St. Michael area, Subsistence, Norton Sound-Port Clarence Area, Arctic-Yukon-Kuskokwim Region, 2007, all strata. Reporting group-specific harvest and harvest rate estimates. Medians, 90% credibility intervals, the probability that reporting group harvest estimate is equal to zero ($P = 0$), means, and SDs are reported.

Reporting Group	Harvest = 2,119; 1 stratum						Harvest Rate (%)				
	Median ^a	90% CI		$P = 0$	Mean	SD	Median	90% CI		Mean	SD
		5%	95%					5%	95%		
Asia	0	0	0	0.96	0	2	—	—	—	—	—
Kotzebue Sound	0	0	21	0.82	4	15	0.0	0.0	0.0	0.0	0.0
CWAK	2,119	1,781	2,477	0.00	2,112	212	0.0	0.0	0.0	0.0	0.0
Upper Yukon River	0	0	24	0.73	4	10	0.0	0.0	0.0	0.0	0.0
Northern District	0	0	0	0.97	0	1	0.0	0.0	0.0	0.0	0.0
Northwestern District	0	0	0	0.98	0	1	0.0	0.0	0.0	0.0	0.0
South Peninsula	0	0	0	0.98	0	1	0.0	0.0	0.0	0.0	0.0
Chignik/Kodiak	0	0	0	0.98	0	1	0.0	0.0	0.0	0.0	0.0
East of Kodiak	0	0	0	0.98	0	1	—	—	—	—	—
Total	2,119				2,120						

Note: Harvest is the number of chum salmon reported to have been harvested in the area stratum.

Note: Harvest rate is the area stratum harvest divided by the total run within the WASSIP area for a given reporting group, expressed as a percent.

Note: Harvest rates are calculated by dividing the harvest posterior by total run posterior distributions; therefore, mean harvest rate may not equal harvest rate calculated from numbers reported in the tables if distributions are highly skewed.

Note: Harvest rate for Asia and East of WASSIP were not calculated because they were not part of WASSIP plan.

^a Adjusted median; 1.01 times unadjusted median.

Table 105.—St. Michael area, Subsistence, Norton Sound-Port Clarence Area, Arctic-Yukon-Kuskokwim Region, 2008, all strata. Reporting group-specific harvest and harvest rate estimates. Medians, 90% credibility intervals, the probability that reporting group harvest estimate is equal to zero ($P = 0$), means, and SDs are reported.

Reporting Group	Harvest = 2,845; 1 stratum						Harvest Rate (%)				
	Median ^a	90% CI		$P = 0$	Mean	SD	Median	90% CI		Mean	SD
		5%	95%					5%	95%		
Asia	0	0	0	0.97	0	2	—	—	—	—	—
Kotzebue Sound	0	0	12	0.92	5	32	0.0	0.0	0.0	0.0	0.0
CWAK	2,845	1,013	5,974	0.00	2,845	1,656	0.0	0.0	0.1	0.0	0.0
Upper Yukon River	0	0	0	0.95	1	11	0.0	0.0	0.0	0.0	0.0
Northern District	0	0	0	0.97	0	3	0.0	0.0	0.0	0.0	0.0
Northwestern District	0	0	0	0.97	0	2	0.0	0.0	0.0	0.0	0.0
South Peninsula	0	0	0	0.97	0	2	0.0	0.0	0.0	0.0	0.0
Chignik/Kodiak	0	0	0	0.97	0	2	0.0	0.0	0.0	0.0	0.0
East of Kodiak	0	0	0	0.97	0	2	—	—	—	—	—
Total	2,845				2,851						

Note: Harvest is the number of chum salmon reported to have been harvested in the area stratum.

Note: Harvest rate is the area stratum harvest divided by the total run within the WASSIP area for a given reporting group, expressed as a percent.

Note: Harvest rates are calculated by dividing the harvest posterior by total run posterior distributions; therefore, mean harvest rate may not equal harvest rate calculated from numbers reported in the tables if distributions are highly skewed.

Note: Harvest rate for Asia and East of WASSIP were not calculated because they were not part of WASSIP plan.

^a Adjusted median; 1.16 times unadjusted median.

Table 106.—St. Michael area, Subsistence, Norton Sound-Port Clarence Area, Arctic-Yukon-Kuskokwim Region, 2009, all strata. Reporting group-specific harvest and harvest rate estimates. Medians, 90% credibility intervals, the probability that reporting group harvest estimate is equal to zero ($P = 0$), means, and SDs are reported.

Reporting Group	Harvest = 921; 1 stratum						Harvest Rate (%)				
	Median ^a	90% CI		$P = 0$	Mean	SD	Median	90% CI		Mean	SD
		5%	95%					5%	95%		
Asia	0	0	0	0.96	0	1	—	—	—	—	—
Kotzebue Sound	0	0	11	0.81	2	5	0.0	0.0	0.0	0.0	0.0
CWAK	921	775	1,077	0.00	918	92	0.0	0.0	0.0	0.0	0.0
Upper Yukon River	0	0	7	0.75	1	3	0.0	0.0	0.0	0.0	0.0
Northern District	0	0	0	0.97	0	0	0.0	0.0	0.0	0.0	0.0
Northwestern District	0	0	0	0.98	0	0	0.0	0.0	0.0	0.0	0.0
South Peninsula	0	0	0	0.98	0	0	0.0	0.0	0.0	0.0	0.0
Chignik/Kodiak	0	0	0	0.98	0	0	0.0	0.0	0.0	0.0	0.0
East of Kodiak	0	0	0	0.98	0	0	—	—	—	—	—
Total	921				921						

Note: Harvest is the number of chum salmon reported to have been harvested in the area stratum.

Note: Harvest rate is the area stratum harvest divided by the total run within the WASSIP area for a given reporting group, expressed as a percent.

Note: Harvest rates are calculated by dividing the harvest posterior by total run posterior distributions; therefore, mean harvest rate may not equal harvest rate calculated from numbers reported in the tables if distributions are highly skewed.

Note: Harvest rate for Asia and East of WASSIP were not calculated because they were not part of WASSIP plan.

^a Adjusted median; 1.01 times unadjusted median.

Table 107.—Nome area, Subsistence and Commercial, Norton Sound-Port Clarence Area, Arctic-Yukon-Kuskokwim Region, 2007, all strata. Reporting group-specific harvest and harvest rate estimates. Medians, 90% credibility intervals, the probability that reporting group harvest estimate is equal to zero ($P = 0$), means, and SDs are reported.

Reporting Group	Harvest = 2,938; 1 stratum						Harvest Rate (%)				
	Median ^a	90% CI		$P = 0$	Mean	SD	Median	90% CI		Mean	SD
		5%	95%					5%	95%		
Asia	0	0	0	0.97	0	2	—	—	—	—	—
Kotzebue Sound	3	0	128	0.36	25	48	0.0	0.0	0.0	0.0	0.0
CWAK	2,935	2,452	3,418	0.00	2,910	295	0.0	0.0	0.1	0.0	0.0
Upper Yukon River	0	0	0	0.96	0	3	0.0	0.0	0.0	0.0	0.0
Northern District	0	0	0	0.97	0	3	0.0	0.0	0.0	0.0	0.0
Northwestern District	0	0	0	0.97	0	2	0.0	0.0	0.0	0.0	0.0
South Peninsula	0	0	0	0.97	0	2	0.0	0.0	0.0	0.0	0.0
Chignik/Kodiak	0	0	0	0.97	0	2	0.0	0.0	0.0	0.0	0.0
East of Kodiak	0	0	0	0.97	0	2	—	—	—	—	—
Total	2,938				2,935						

Note: Harvest is the number of chum salmon reported to have been harvested in the area stratum.

Note: Harvest rate is the area stratum harvest divided by the total run within the WASSIP area for a given reporting group, expressed as a percent.

Note: Harvest rates are calculated by dividing the harvest posterior by total run posterior distributions; therefore, mean harvest rate may not equal harvest rate calculated from numbers reported in the tables if distributions are highly skewed.

Note: Harvest rate for Asia and East of WASSIP were not calculated because they were not part of WASSIP plan.

^a Adjusted median; 1.01 times unadjusted median.

Table 108.—Nome area, Subsistence, Norton Sound-Port Clarence Area, Arctic-Yukon-Kuskokwim Region, 2008, all strata. Reporting group-specific harvest and harvest rate estimates. Medians, 90% credibility intervals, the probability that reporting group harvest estimate is equal to zero ($P = 0$), means, and SDs are reported.

Reporting Group	Harvest = 739; 1 stratum						Harvest Rate (%)				
	Median ^a	90% CI		$P = 0$	Mean	SD	Median	90% CI		Mean	SD
		5%	95%					5%	95%		
Asia	0	0	0	0.98	0	1	—	—	—	—	—
Kotzebue Sound	1	0	32	0.47	6	12	0.0	0.0	0.0	0.0	0.0
CWAK	738	616	860	0.00	733	74	0.0	0.0	0.0	0.0	0.0
Upper Yukon River	0	0	0	0.98	0	1	0.0	0.0	0.0	0.0	0.0
Northern District	0	0	0	0.98	0	1	0.0	0.0	0.0	0.0	0.0
Northwestern District	0	0	0	0.98	0	0	0.0	0.0	0.0	0.0	0.0
South Peninsula	0	0	0	0.98	0	0	0.0	0.0	0.0	0.0	0.0
Chignik/Kodiak	0	0	0	0.98	0	0	0.0	0.0	0.0	0.0	0.0
East of Kodiak	0	0	0	0.98	0	0	—	—	—	—	—
Total	739				739						

Note: Harvest is the number of chum salmon reported to have been harvested in the area stratum.

Note: Harvest rate is the area stratum harvest divided by the total run within the WASSIP area for a given reporting group, expressed as a percent.

Note: Harvest rates are calculated by dividing the harvest posterior by total run posterior distributions; therefore, mean harvest rate may not equal harvest rate calculated from numbers reported in the tables if distributions are highly skewed.

Note: Harvest rate for Asia and East of WASSIP were not calculated because they were not part of WASSIP plan.

^a Adjusted median; 1.01 times unadjusted median.

Table 109.—Nome area, Subsistence, Norton Sound-Port Clarence Area, Arctic-Yukon-Kuskokwim Region, 2009, all strata. Reporting group-specific harvest and harvest rate estimates. Medians, 90% credibility intervals, the probability that reporting group harvest estimate is equal to zero ($P = 0$), means, and SDs are reported.

Reporting Group	Harvest = 387; 1 stratum						Harvest Rate (%)				
	Median ^a	90% CI		$P = 0$	Mean	SD	Median	90% CI		Mean	SD
		5%	95%					5%	95%		
Asia	0	0	0	0.99	0	0	—	—	—	—	—
Kotzebue Sound	0	0	17	0.53	3	6	0.0	0.0	0.0	0.0	0.0
CWAK	387	323	450	0.00	383	39	0.0	0.0	0.0	0.0	0.0
Upper Yukon River	0	0	0	0.98	0	0	0.0	0.0	0.0	0.0	0.0
Northern District	0	0	0	0.99	0	0	0.0	0.0	0.0	0.0	0.0
Northwestern District	0	0	0	0.99	0	0	0.0	0.0	0.0	0.0	0.0
South Peninsula	0	0	0	0.99	0	0	0.0	0.0	0.0	0.0	0.0
Chignik/Kodiak	0	0	0	0.99	0	0	0.0	0.0	0.0	0.0	0.0
East of Kodiak	0	0	0	0.99	0	0	—	—	—	—	—
Total	387				386						

Note: Harvest is the number of chum salmon reported to have been harvested in the area stratum.

Note: Harvest rate is the area stratum harvest divided by the total run within the WASSIP area for a given reporting group, expressed as a percent.

Note: Harvest rates are calculated by dividing the harvest posterior by total run posterior distributions; therefore, mean harvest rate may not equal harvest rate calculated from numbers reported in the tables if distributions are highly skewed.

Note: Harvest rate for Asia and East of WASSIP were not calculated because they were not part of WASSIP plan.

^a Adjusted median; 1.01 times unadjusted median.

Table 110.—Port Clarence District, Subsistence and Commercial, Norton Sound-Port Clarence Area, Arctic-Yukon-Kuskokwim Region, 2007, all strata. Reporting group-specific harvest and harvest rate estimates. Medians, 90% credibility intervals, the probability that reporting group harvest estimate is equal to zero ($P = 0$), means, and SDs are reported.

Reporting Group	Harvest = 7,637; 1 stratum						Harvest Rate (%)				
	Median ^a	90% CI		$P = 0$	Mean	SD	Median	90% CI		Mean	SD
		5%	95%					5%	95%		
Asia	0	0	0	0.97	0	2	—	—	—	—	—
Kotzebue Sound	512	138	957	0.00	525	249	0.1	0.0	0.2	0.1	0.1
CWAK	7,125	5,939	8,404	0.00	7,111	751	0.1	0.1	0.1	0.1	0.0
Upper Yukon River	0	0	0	0.96	0	5	0.0	0.0	0.0	0.0	0.0
Northern District	0	0	0	0.96	0	4	0.0	0.0	0.0	0.0	0.0
Northwestern District	0	0	0	0.97	0	2	0.0	0.0	0.0	0.0	0.0
South Peninsula	0	0	0	0.97	0	2	0.0	0.0	0.0	0.0	0.0
Chignik/Kodiak	0	0	0	0.97	0	2	0.0	0.0	0.0	0.0	0.0
East of Kodiak	0	0	0	0.97	0	2	—	—	—	—	—
Total	7,637				7,636						

Note: Harvest is the number of chum salmon reported to have been harvested in the area stratum.

Note: Harvest rate is the area stratum harvest divided by the total run within the WASSIP area for a given reporting group, expressed as a percent.

Note: Harvest rates are calculated by dividing the harvest posterior by total run posterior distributions; therefore, mean harvest rate may not equal harvest rate calculated from numbers reported in the tables if distributions are highly skewed.

Note: Harvest rate for Asia and East of WASSIP were not calculated because they were not part of WASSIP plan.

^a Adjusted median; 1.01 times unadjusted median.

Table 111.–Port Clarence District, Subsistence and Commercial, Norton Sound-Port Clarence Area, Arctic-Yukon-Kuskokwim Region, 2008, all strata. Reporting group-specific harvest and harvest rate estimates. Medians, 90% credibility intervals, the probability that reporting group harvest estimate is equal to zero ($P = 0$), means, and SDs are reported.

Reporting Group	Harvest = 2,773; 1 stratum						Harvest Rate (%)				
	Median ^a	90% CI		$P = 0$	Mean	SD	Median	90% CI		Mean	SD
		5%	95%					5%	95%		
Asia	0	0	0	0.98	0	1	–	–	–	–	–
Kotzebue Sound	186	50	348	0.00	191	90	0.0	0.0	0.0	0.0	0.0
CWAK	2,587	2,158	3,058	0.00	2,584	273	0.0	0.0	0.1	0.0	0.0
Upper Yukon River	0	0	0	0.97	0	2	0.0	0.0	0.0	0.0	0.0
Northern District	0	0	0	0.97	0	2	0.0	0.0	0.0	0.0	0.0
Northwestern District	0	0	0	0.98	0	1	0.0	0.0	0.0	0.0	0.0
South Peninsula	0	0	0	0.98	0	1	0.0	0.0	0.0	0.0	0.0
Chignik/Kodiak	0	0	0	0.98	0	1	0.0	0.0	0.0	0.0	0.0
East of Kodiak	0	0	0	0.98	0	1	–	–	–	–	–
Total	2,773				2,775						

Note: Harvest is the number of chum salmon reported to have been harvested in the area stratum.

Note: Harvest rate is the area stratum harvest divided by the total run within the WASSIP area for a given reporting group, expressed as a percent.

Note: Harvest rates are calculated by dividing the harvest posterior by total run posterior distributions; therefore, mean harvest rate may not equal harvest rate calculated from numbers reported in the tables if distributions are highly skewed.

Note: Harvest rate for Asia and East of WASSIP were not calculated because they were not part of WASSIP plan.

^a Adjusted median; 1.01 times unadjusted median.

Table 112.–Port Clarence District, Subsistence and Commercial, Norton Sound-Port Clarence Area, Arctic-Yukon-Kuskokwim Region, 2009, all strata. Reporting group-specific harvest and harvest rate estimates. Medians, 90% credibility intervals, the probability that reporting group harvest estimate is equal to zero ($P = 0$), means, and SDs are reported.

Reporting Group	Harvest = 3,060; 1 stratum						Harvest Rate (%)				
	Median ^a	90% CI		$P = 0$	Mean	SD	Median	90% CI		Mean	SD
		5%	95%					5%	95%		
Asia	0	0	0	0.98	0	1	–	–	–	–	–
Kotzebue Sound	206	55	384	0.00	210	100	0.0	0.0	0.1	0.0	0.0
CWAK	2,854	2,382	3,367	0.00	2,848	300	0.0	0.0	0.1	0.0	0.0
Upper Yukon River	0	0	0	0.97	0	2	0.0	0.0	0.0	0.0	0.0
Northern District	0	0	0	0.97	0	2	0.0	0.0	0.0	0.0	0.0
Northwestern District	0	0	0	0.98	0	1	0.0	0.0	0.0	0.0	0.0
South Peninsula	0	0	0	0.98	0	1	0.0	0.0	0.0	0.0	0.0
Chignik/Kodiak	0	0	0	0.98	0	1	0.0	0.0	0.0	0.0	0.0
East of Kodiak	0	0	0	0.98	0	1	–	–	–	–	–
Total	3,060				3,058						

Note: Harvest is the number of chum salmon reported to have been harvested in the area stratum.

Note: Harvest rate is the area stratum harvest divided by the total run within the WASSIP area for a given reporting group, expressed as a percent.

Note: Harvest rates are calculated by dividing the harvest posterior by total run posterior distributions; therefore, mean harvest rate may not equal harvest rate calculated from numbers reported in the tables if distributions are highly skewed.

Note: Harvest rate for Asia and East of WASSIP were not calculated because they were not part of WASSIP plan.

^a Adjusted median; 1.01 times unadjusted median.

Table 113.—Kotzebue Sound District, Commercial, Kotzebue Area, Arctic-Yukon-Kuskokwim Region, 2007, all strata. Reporting group-specific harvest and harvest rate estimates. Medians, 90% credibility intervals, the probability that reporting group harvest estimate is equal to zero ($P = 0$), means, and SDs are reported.

Reporting Group	Harvest = 147,087; 1 stratum						Harvest Rate (%)				
	Median ^a	90% CI		$P = 0$	Mean	SD	Median	90% CI		Mean	SD
		5%	95%					5%	95%		
Asia	0	0	1	0.94	4	38	—	—	—	—	—
Kotzebue Sound	147,087	134,925	159,253	0.00	146,801	7,392	18.0	5.5	41.3	20.0	11.1
CWAK	0	0	1,664	0.70	240	869	0.0	0.0	0.0	0.0	0.0
Upper Yukon River	0	0	5	0.93	12	102	0.0	0.0	0.0	0.0	0.0
Northern District	0	0	2	0.94	6	53	0.0	0.0	0.0	0.0	0.0
Northwestern District	0	0	1	0.94	4	38	0.0	0.0	0.0	0.0	0.0
South Peninsula	0	0	2	0.94	5	49	0.0	0.0	0.0	0.0	0.0
Chignik/Kodiak	0	0	2	0.94	7	62	0.0	0.0	0.0	0.0	0.0
East of Kodiak	0	0	1	0.94	4	36	—	—	—	—	—
Total	147,087				147,083						

Note: Harvest is the number of chum salmon reported to have been harvested in the area stratum.

Note: Harvest rate is the area stratum harvest divided by the total run within the WASSIP area for a given reporting group, expressed as a percent.

Note: Harvest rates are calculated by dividing the harvest posterior by total run posterior distributions; therefore, mean harvest rate may not equal harvest rate calculated from numbers reported in the tables if distributions are highly skewed.

Note: Harvest rate for Asia and East of WASSIP were not calculated because they were not part of WASSIP plan.

^a Adjusted median; 1.00 times unadjusted median.

Table 114.—Kotzebue Sound District, Commercial, Kotzebue Area, Arctic-Yukon-Kuskokwim Region, 2008, all strata. Reporting group-specific harvest and harvest rate estimates. Medians, 90% credibility intervals, the probability that reporting group harvest estimate is equal to zero ($P = 0$), means, and SDs are reported.

Reporting Group	Harvest = 190,550; 1 stratum						Harvest Rate (%)				
	Median ^a	90% CI		$P = 0$	Mean	SD	Median	90% CI		Mean	SD
		5%	95%					5%	95%		
Asia	0	0	2	0.94	5	52	—	—	—	—	—
Kotzebue Sound	190,550	175,118	206,328	0.00	190,269	9,524	17.0	5.1	40.7	19.2	11.1
CWAK	0	0	48	0.91	63	459	0.0	0.0	0.0	0.0	0.0
Upper Yukon River	0	0	1,379	0.81	178	595	0.0	0.0	0.2	0.0	0.1
Northern District	0	0	2	0.94	6	55	0.0	0.0	0.0	0.0	0.0
Northwestern District	0	0	4	0.93	8	75	0.0	0.0	0.0	0.0	0.0
South Peninsula	0	0	2	0.94	5	53	0.0	0.0	0.0	0.0	0.0
Chignik/Kodiak	0	0	2	0.94	5	50	0.0	0.0	0.0	0.0	0.0
East of Kodiak	0	0	2	0.94	5	45	—	—	—	—	—
Total	190,550				190,544						

Note: Harvest is the number of chum salmon reported to have been harvested in the area stratum.

Note: Harvest rate is the area stratum harvest divided by the total run within the WASSIP area for a given reporting group, expressed as a percent.

Note: Harvest rates are calculated by dividing the harvest posterior by total run posterior distributions; therefore, mean harvest rate may not equal harvest rate calculated from numbers reported in the tables if distributions are highly skewed.

Note: Harvest rate for Asia and East of WASSIP were not calculated because they were not part of WASSIP plan.

^a Adjusted median; 1.00 times unadjusted median.

Table 115.—Kotzebue Sound District, Commercial, Kotzebue Area, Arctic-Yukon-Kuskokwim Region, 2009, all strata. Reporting group-specific harvest and harvest rate estimates. Medians, 90% credibility intervals, the probability that reporting group harvest estimate is equal to zero ($P = 0$), means, and SDs are reported.

Reporting Group	Harvest = 187,562; 1 stratum						Harvest Rate (%)				
	Median ^a	90% CI		$P = 0$	Mean	SD	Median	90% CI		Mean	SD
		5%	95%					5%	95%		
Asia	0	0	9	0.92	15	120	—	—	—	—	—
Kotzebue Sound	187,562	170,994	202,571	0.00	186,479	9,607	25.0	8.3	50.4	26.6	12.9
CWAK	0	0	6,379	0.78	777	2,261	0.0	0.0	0.1	0.0	0.0
Upper Yukon River	0	0	1,818	0.74	271	694	0.0	0.0	0.3	0.0	0.1
Northern District	0	0	3	0.93	8	76	0.0	0.0	0.0	0.0	0.0
Northwestern District	0	0	2	0.94	5	50	0.0	0.0	0.0	0.0	0.0
South Peninsula	0	0	2	0.94	5	54	0.0	0.0	0.0	0.0	0.0
Chignik/Kodiak	0	0	2	0.94	5	50	0.0	0.0	0.0	0.0	0.0
East of Kodiak	0	0	2	0.94	5	46	—	—	—	—	—
Total	187,562				187,570						

Note: Harvest is the number of chum salmon reported to have been harvested in the area stratum.

Note: Harvest rate is the area stratum harvest divided by the total run within the WASSIP area for a given reporting group, expressed as a percent.

Note: Harvest rates are calculated by dividing the harvest posterior by total run posterior distributions; therefore, mean harvest rate may not equal harvest rate calculated from numbers reported in the tables if distributions are highly skewed.

Note: Harvest rate for Asia and East of WASSIP were not calculated because they were not part of WASSIP plan.

^a Adjusted median; 1.01 times unadjusted median.

Table 116.—Chignik Area, Commercial, Westward Region, 2007, all strata. Reporting group-specific harvest and harvest rate estimates. Medians, 90% credibility intervals, the probability that reporting group harvest estimate is equal to zero ($P = 0$), means, and SDs are reported.

Reporting Group	Harvest = 78,552; 7 strata						Harvest Rate (%)				
	Median ^a	90% CI		$P = 0$	Mean	SD	Median	90% CI		Mean	SD
		5%	95%					5%	95%		
Asia	10,345	9,019	11,646	0.00	10,295	802	—	—	—	—	—
Kotzebue Sound	0	0	298	0.59	57	107	0.0	0.0	0.0	0.0	0.0
CWAK	2,735	2,119	3,401	0.00	2,732	390	0.0	0.0	0.0	0.0	0.0
Upper Yukon River	248	85	527	0.00	268	139	0.0	0.0	0.0	0.0	0.0
Northern District	0	0	510	0.51	106	184	0.0	0.0	0.1	0.0	0.0
Northwestern District	78	0	390	0.17	119	134	0.0	0.0	0.0	0.0	0.0
South Peninsula	3,771	2,100	7,253	0.00	4,134	1,603	0.1	0.0	0.5	0.2	0.2
Chignik/Kodiak	46,584	42,299	49,478	0.00	46,120	2,170	1.9	0.5	7.2	2.6	2.4
East of Kodiak	14,792	13,176	16,352	0.00	14,716	967	—	—	—	—	—
Total	78,553				78,547						

Note: Harvest is the number of chum salmon reported to have been harvested in the fishery.

Note: Harvest rate is the fishery harvest divided by the total run within the WASSIP area for a given reporting group, expressed as a percent.

Note: Harvest rates are calculated by dividing the harvest posterior by total run posterior distributions; therefore, mean harvest rate may not equal harvest rate calculated from numbers reported in the tables if distributions are highly skewed.

Note: Harvest rate for Asia and East of WASSIP were not calculated because they were not part of WASSIP plan.

^a Adjusted median; 1.01 times unadjusted median.

Table 117.—Chignik Area, Commercial, Westward Region, 2008, all strata. Reporting group-specific harvest and harvest rate estimates. Medians, 90% credibility intervals, the probability that reporting group harvest estimate is equal to zero ($P = 0$), means, and SDs are reported.

Reporting Group	Harvest = 209,325; 7 strata						Harvest Rate (%)				
	Median ^a	90% CI		$P = 0$	Mean	SD	Median	90% CI		Mean	SD
		5%	95%					5%	95%		
Asia	16,896	14,469	19,601	0.00	16,943	1,558	—	—	—	—	—
Kotzebue Sound	43	0	286	0.33	82	106	0.0	0.0	0.0	0.0	0.0
CWAK	4,676	3,168	6,246	0.00	4,690	930	0.1	0.0	0.1	0.1	0.0
Upper Yukon River	4,942	0	6,112	0.13	3,371	2,602	0.5	0.0	0.7	0.4	0.3
Northern District	372	170	1,854	0.00	570	544	0.0	0.0	0.3	0.1	0.1
Northwestern District	909	317	1,869	0.00	979	492	0.1	0.0	0.3	0.1	0.1
South Peninsula	7,878	682	15,044	0.00	8,024	4,144	0.3	0.0	1.3	0.4	0.4
Chignik/Kodiak	168,267	158,671	178,023	0.00	168,272	5,862	8.6	2.2	26.6	10.7	7.9
East of Kodiak	5,342	2,938	11,024	0.00	6,404	2,819	—	—	—	—	—
Total	209,325				209,335						

Note: Harvest is the number of chum salmon reported to have been harvested in the fishery.

Note: Harvest rate is the fishery harvest divided by the total run within the WASSIP area for a given reporting group, expressed as a percent.

Note: Harvest rates are calculated by dividing the harvest posterior by total run posterior distributions; therefore, mean harvest rate may not equal harvest rate calculated from numbers reported in the tables if distributions are highly skewed.

Note: Harvest rate for Asia and East of WASSIP were not calculated because they were not part of WASSIP plan.

^a Adjusted median; 1.00 times unadjusted median.

Table 118.—Chignik Area, Commercial, Westward Region, 2009, all strata. Reporting group-specific harvest and harvest rate estimates. Medians, 90% credibility intervals, the probability that reporting group harvest estimate is equal to zero ($P = 0$), means, and SDs are reported.

Reporting Group	Harvest = 255,299; 7 strata						Harvest Rate (%)				
	Median ^a	90% CI		$P = 0$	Mean	SD	Median	90% CI		Mean	SD
		5%	95%					5%	95%		
Asia	25,785	21,729	30,023	0.00	25,729	2,521	—	—	—	—	—
Kotzebue Sound	0	0	2,900	0.68	396	1,023	0.0	0.0	0.4	0.1	0.2
CWAK	32,055	26,878	37,247	0.00	31,943	3,158	0.5	0.4	0.7	0.5	0.1
Upper Yukon River	0	0	622	0.69	94	274	0.0	0.0	0.1	0.0	0.0
Northern District	855	0	2,918	0.22	1,023	1,017	0.1	0.0	0.6	0.2	0.2
Northwestern District	1,842	609	3,628	0.01	1,936	938	0.4	0.1	1.2	0.5	0.4
South Peninsula	6,790	698	15,237	0.01	7,224	4,396	0.2	0.0	0.8	0.3	0.2
Chignik/Kodiak	180,323	168,436	189,590	0.00	179,179	6,413	6.9	1.7	22.1	8.7	6.6
East of Kodiak	7,650	5,548	10,675	0.00	7,791	1,595	—	—	—	—	—
Total	255,300				255,315						

Note: Harvest is the number of chum salmon reported to have been harvested in the fishery.

Note: Harvest rate is the fishery harvest divided by the total run within the WASSIP area for a given reporting group, expressed as a percent.

Note: Harvest rates are calculated by dividing the harvest posterior by total run posterior distributions; therefore, mean harvest rate may not equal harvest rate calculated from numbers reported in the tables if distributions are highly skewed.

Note: Harvest rate for Asia and East of WASSIP were not calculated because they were not part of WASSIP plan.

^a Adjusted median; 1.01 times unadjusted median.

Table 119.—Southeastern District Mainland (SEDM) area, Southeastern District, Commercial, Alaska Peninsula Area, Westward Region, 2007, all strata. Reporting group-specific harvest and harvest rate estimates. Medians, 90% credibility intervals, the probability that reporting group harvest estimate is equal to zero ($P = 0$), means, and SDs are reported.

Reporting Group	Harvest = 40,649; 1 stratum						Harvest Rate (%)				
	Median ^a	90% CI		$P = 0$	Mean	SD	Median	90% CI		Mean	SD
		5%	95%					5%	95%		
Asia	0	0	0	1.00	0	0	—	—	—	—	—
Kotzebue Sound	0	0	0	1.00	0	0	0.0	0.0	0.0	0.0	0.0
CWAK	0	0	0	1.00	0	0	0.0	0.0	0.0	0.0	0.0
Upper Yukon River	0	0	0	1.00	0	0	0.0	0.0	0.0	0.0	0.0
Northern District	0	0	0	1.00	0	0	0.0	0.0	0.0	0.0	0.0
Northwestern District	0	0	0	1.00	0	0	0.0	0.0	0.0	0.0	0.0
South Peninsula	40,649	37,387	44,056	0.00	40,639	2,029	1.3	0.3	4.4	1.7	1.3
Chignik/Kodiak	0	0	0	1.00	0	0	0.0	0.0	0.0	0.0	0.0
East of Kodiak	0	0	0	1.00	0	0	—	—	—	—	—
Total	40,649				40,639						

Note: Harvest is the number of chum salmon reported to have been harvested in the fishery.

Note: Harvest rate is the fishery harvest divided by the total run within the WASSIP area for a given reporting group, expressed as a percent.

Note: Harvest rates are calculated by dividing the harvest posterior by total run posterior distributions; therefore, mean harvest rate may not equal harvest rate calculated from numbers reported in the tables if distributions are highly skewed.

Note: Harvest rate for Asia and East of WASSIP were not calculated because they were not part of WASSIP plan.

^a Adjusted median; 1.00 times unadjusted median.

Table 120.—Southeastern District Mainland (SEDM) area, Southeastern District, Commercial, Alaska Peninsula Area, Westward Region, 2008, all strata. Reporting group-specific harvest and harvest rate estimates. Medians, 90% credibility intervals, the probability that reporting group harvest estimate is equal to zero ($P = 0$), means, and SDs are reported.

Reporting Group	Harvest = 72,263; 2 strata						Harvest Rate (%)				
	Median ^a	90% CI		$P = 0$	Mean	SD	Median	90% CI		Mean	SD
		5%	95%					5%	95%		
Asia	455	209	836	0.00	480	194	—	—	—	—	—
Kotzebue Sound	0	0	0	0.95	1	10	0.0	0.0	0.0	0.0	0.0
CWAK	258	91	547	0.00	280	143	0.0	0.0	0.0	0.0	0.0
Upper Yukon River	0	0	1	0.94	3	23	0.0	0.0	0.0	0.0	0.0
Northern District	0	0	70	0.89	15	76	0.0	0.0	0.0	0.0	0.0
Northwestern District	0	0	57	0.90	15	77	0.0	0.0	0.0	0.0	0.0
South Peninsula	56,632	51,856	61,369	0.00	56,520	2,896	2.5	0.6	7.8	3.1	2.3
Chignik/Kodiak	14,406	11,380	17,451	0.00	14,385	1,848	0.7	0.2	2.3	0.9	0.7
East of Kodiak	512	235	1,145	0.00	573	284	—	—	—	—	—
Total	72,263				72,272						

Note: Harvest is the number of chum salmon reported to have been harvested in the fishery.

Note: Harvest rate is the fishery harvest divided by the total run within the WASSIP area for a given reporting group, expressed as a percent.

Note: Harvest rates are calculated by dividing the harvest posterior by total run posterior distributions; therefore, mean harvest rate may not equal harvest rate calculated from numbers reported in the tables if distributions are highly skewed.

Note: Harvest rate for Asia and East of WASSIP were not calculated because they were not part of WASSIP plan.

^a Adjusted median; 1.00 times unadjusted median.

Table 121.—Southeastern District Mainland (SEDM) area, Southeastern District, Commercial, Alaska Peninsula Area, Westward Region, 2009, all strata. Reporting group-specific harvest and harvest rate estimates. Medians, 90% credibility intervals, the probability that reporting group harvest estimate is equal to zero ($P = 0$), means, and SDs are reported.

Reporting Group	Harvest = 150,921; 2 strata						Harvest Rate (%)				
	Median ^a	90% CI		$P = 0$	Mean	SD	Median	90% CI		Mean	SD
		5%	95%					5%	95%		
Asia	688	247	1,405	0.00	738	360	—	—	—	—	—
Kotzebue Sound	0	0	4	0.93	6	47	0.0	0.0	0.0	0.0	0.0
CWAK	892	434	1,593	0.00	936	358	0.0	0.0	0.0	0.0	0.0
Upper Yukon River	0	0	1	0.95	2	18	0.0	0.0	0.0	0.0	0.0
Northern District	0	0	362	0.87	52	221	0.0	0.0	0.0	0.0	0.0
Northwestern District	430	0	1,202	0.11	487	386	0.1	0.0	0.4	0.1	0.1
South Peninsula	117,426	107,159	128,301	0.00	117,417	6,431	4.3	1.3	9.1	4.7	2.4
Chignik/Kodiak	30,218	22,665	36,605	0.00	29,972	4,254	1.1	0.3	3.7	1.5	1.1
East of Kodiak	1,266	705	2,072	0.00	1,313	431	—	—	—	—	—
Total	150,920				150,923						

Note: Harvest is the number of chum salmon reported to have been harvested in the fishery.

Note: Harvest rate is the fishery harvest divided by the total run within the WASSIP area for a given reporting group, expressed as a percent.

Note: Harvest rates are calculated by dividing the harvest posterior by total run posterior distributions; therefore, mean harvest rate may not equal harvest rate calculated from numbers reported in the tables if distributions are highly skewed.

Note: Harvest rate for Asia and East of WASSIP were not calculated because they were not part of WASSIP plan.

^a Adjusted median; 1.00 times unadjusted median.

Table 122.—June, South Alaska Peninsula, Commercial, Alaska Peninsula Area, Westward Region, 2007, all strata. Reporting group-specific harvest and harvest rate estimates. Medians, 90% credibility intervals, the probability that reporting group harvest estimate is equal to zero ($P = 0$), means, and SDs are reported.

Reporting Group	Harvest = 297,539; 16 strata						Harvest Rate (%)				
	Median ^a	90% CI		$P = 0$	Mean	SD	Median	90% CI		Mean	SD
		5%	95%					5%	95%		
Asia	60,823	57,317	64,327	0.00	60,760	2,122	—	—	—	—	—
Kotzebue Sound	1,267	506	2,478	0.00	1,349	613	0.1	0.0	0.5	0.2	0.1
CWAK	178,116	171,911	183,912	0.00	177,867	3,657	2.1	1.4	3.0	2.1	0.5
Upper Yukon River	3,726	2,653	4,958	0.00	3,752	702	0.3	0.2	0.5	0.3	0.1
Northern District	719	310	1,874	0.00	861	509	0.1	0.0	0.4	0.1	0.1
Northwestern District	2,466	1,792	3,293	0.00	2,492	458	0.2	0.0	0.6	0.2	0.2
South Peninsula	3,286	1,985	5,236	0.00	3,401	983	0.1	0.0	0.4	0.1	0.1
Chignik/Kodiak	4,919	3,018	6,666	0.00	4,889	1,091	0.2	0.0	0.8	0.3	0.3
East of Kodiak	42,217	39,255	45,182	0.00	42,183	1,803	—	—	—	—	—
Total	297,539				297,554						

Note: Harvest is the number of chum salmon reported to have been harvested in the fishery.

Note: Harvest rate is the fishery harvest divided by the total run within the WASSIP area for a given reporting group, expressed as a percent.

Note: Harvest rates are calculated by dividing the harvest posterior by total run posterior distributions; therefore, mean harvest rate may not equal harvest rate calculated from numbers reported in the tables if distributions are highly skewed.

Note: Harvest rate for Asia and East of WASSIP were not calculated because they were not part of WASSIP plan.

^a Adjusted median; 1.00 times unadjusted median.

Table 123.—June, South Alaska Peninsula, Commercial, Alaska Peninsula Area, Westward Region, 2008, all strata. Reporting group-specific harvest and harvest rate estimates. Medians, 90% credibility intervals, the probability that reporting group harvest estimate is equal to zero ($P = 0$), means, and SDs are reported.

Reporting Group	Harvest = 410,932; 15 strata						Harvest Rate (%)				
	Median ^a	90% CI		$P = 0$	Mean	SD	Median	90% CI		Mean	SD
		5%	95%					5%	95%		
Asia	117,340	110,778	123,777	0.00	117,171	3,953	—	—	—	—	—
Kotzebue Sound	4,097	2,040	6,487	0.00	4,154	1,353	0.3	0.1	1.0	0.4	0.3
CWAK	214,858	205,256	223,882	0.00	214,464	5,657	3.6	2.5	4.8	3.6	0.7
Upper Yukon River	6,875	4,852	9,165	0.00	6,914	1,314	0.8	0.5	1.0	0.8	0.2
Northern District	5,297	3,065	8,854	0.00	5,533	1,768	0.6	0.1	2.0	0.7	0.6
Northwestern District	13,742	10,928	16,760	0.00	13,760	1,772	1.0	0.3	3.4	1.3	1.0
South Peninsula	7,826	5,686	11,503	0.00	8,108	1,777	0.3	0.1	1.2	0.4	0.4
Chignik/Kodiak	13,269	9,385	16,858	0.00	13,186	2,271	0.7	0.2	2.1	0.8	0.6
East of Kodiak	27,629	24,526	30,888	0.00	27,620	1,930	—	—	—	—	—
Total	410,933				410,910						

Note: Harvest is the number of chum salmon reported to have been harvested in the fishery.

Note: Harvest rate is the fishery harvest divided by the total run within the WASSIP area for a given reporting group, expressed as a percent.

Note: Harvest rates are calculated by dividing the harvest posterior by total run posterior distributions; therefore, mean harvest rate may not equal harvest rate calculated from numbers reported in the tables if distributions are highly skewed.

Note: Harvest rate for Asia and East of WASSIP were not calculated because they were not part of WASSIP plan.

^a Adjusted median; 1.00 times unadjusted median.

Table 124.—June, South Alaska Peninsula, Commercial, Alaska Peninsula Area, Westward Region, 2009, all strata. Reporting group-specific harvest and harvest rate estimates. Medians, 90% credibility intervals, the probability that reporting group harvest estimate is equal to zero ($P = 0$), means, and SDs are reported.

Reporting Group	Harvest = 696,775; 16 strata						Harvest Rate (%)				
	Median ^a	90% CI		$P = 0$	Mean	SD	Median	90% CI		Mean	SD
		5%	95%					5%	95%		
Asia	179,004	167,010	190,785	0.00	178,693	7,236	—	—	—	—	—
Kotzebue Sound	2,477	1,139	5,600	0.00	2,791	1,410	0.3	0.1	1.0	0.4	0.3
CWAK	421,588	404,060	437,596	0.00	420,739	10,207	6.9	4.9	9.1	6.9	1.3
Upper Yukon River	1,473	252	3,430	0.00	1,612	986	0.3	0.0	0.6	0.3	0.2
Northern District	5,522	3,484	9,149	0.00	5,816	1,766	0.7	0.2	2.5	0.9	0.8
Northwestern District	31,002	25,900	36,532	0.00	31,034	3,233	6.5	1.8	16.8	7.5	4.7
South Peninsula	7,652	3,739	14,033	0.00	8,113	3,194	0.3	0.1	0.8	0.3	0.2
Chignik/Kodiak	16,165	10,216	21,734	0.00	16,075	3,493	0.6	0.1	2.1	0.8	0.6
East of Kodiak	31,892	27,132	37,113	0.00	31,931	3,046	—	—	—	—	—
Total	696,775				696,804						

Note: Harvest is the number of chum salmon reported to have been harvested in the fishery.

Note: Harvest rate is the fishery harvest divided by the total run within the WASSIP area for a given reporting group, expressed as a percent.

Note: Harvest rates are calculated by dividing the harvest posterior by total run posterior distributions; therefore, mean harvest rate may not equal harvest rate calculated from numbers reported in the tables if distributions are highly skewed.

Note: Harvest rate for Asia and East of WASSIP were not calculated because they were not part of WASSIP plan.

^a Adjusted median; 1.00 times unadjusted median.

Table 125.—Post-June, South Alaska Peninsula, Commercial, Alaska Peninsula Area, Westward Region, 2007, all strata. Reporting group-specific harvest and harvest rate estimates. Medians, 90% credibility intervals, the probability that reporting group harvest estimate is equal to zero ($P = 0$), means, and SDs are reported.

Reporting Group	Harvest = 332,968; 8 strata						Harvest Rate (%)				
	Median ^a	90% CI		$P = 0$	Mean	SD	Median	90% CI		Mean	SD
		5%	95%					5%	95%		
Asia	40,698	36,939	44,560	0.00	40,672	2,325	—	—	—	—	—
Kotzebue Sound	292	0	1,239	0.20	401	430	0.0	0.0	0.2	0.1	0.1
CWAK	12,155	10,070	14,442	0.00	12,178	1,327	0.1	0.1	0.2	0.1	0.0
Upper Yukon River	356	5	1,087	0.04	424	344	0.0	0.0	0.1	0.0	0.0
Northern District	2,341	1,261	3,775	0.00	2,406	774	0.3	0.1	1.0	0.4	0.3
Northwestern District	7,799	5,666	10,419	0.00	7,877	1,450	0.5	0.1	1.9	0.7	0.6
South Peninsula	202,019	190,254	213,532	0.00	201,763	7,057	6.3	1.6	21.6	8.2	6.6
Chignik/Kodiak	49,141	40,836	57,367	0.00	49,068	5,030	2.0	0.5	7.6	2.8	2.5
East of Kodiak	18,167	15,692	20,845	0.00	18,184	1,562	—	—	—	—	—
Total	332,968				332,973						

Note: Harvest is the number of chum salmon reported to have been harvested in the fishery.

Note: Harvest rate is the fishery harvest divided by the total run within the WASSIP area for a given reporting group, expressed as a percent.

Note: Harvest rates are calculated by dividing the harvest posterior by total run posterior distributions; therefore, mean harvest rate may not equal harvest rate calculated from numbers reported in the tables if distributions are highly skewed.

Note: Harvest rate for Asia and East of WASSIP were not calculated because they were not part of WASSIP plan.

^a Adjusted median; 1.00 times unadjusted median.

Table 126.—Post-June, South Alaska Peninsula, Commercial, Alaska Peninsula Area, Westward Region, 2008, all strata. Reporting group-specific harvest and harvest rate estimates. Medians, 90% credibility intervals, the probability that reporting group harvest estimate is equal to zero ($P = 0$), means, and SDs are reported.

Reporting Group	Harvest = 291,740; 8 strata						Harvest Rate (%)				
	Median ^a	90% CI		$P = 0$	Mean	SD	Median	90% CI		Mean	SD
		5%	95%					5%	95%		
Asia	40,767	37,526	44,000	0.00	40,716	1,971	—	—	—	—	—
Kotzebue Sound	341	130	1,268	0.00	476	370	0.0	0.0	0.2	0.0	0.1
CWAK	7,839	6,387	9,414	0.00	7,850	920	0.1	0.1	0.2	0.1	0.0
Upper Yukon River	224	85	515	0.00	252	138	0.0	0.0	0.1	0.0	0.0
Northern District	1,785	818	3,578	0.00	1,949	867	0.2	0.0	0.7	0.3	0.2
Northwestern District	8,151	6,147	10,345	0.00	8,177	1,279	0.6	0.1	2.0	0.8	0.6
South Peninsula	176,742	167,129	186,016	0.00	176,455	5,739	7.7	2.0	24.3	9.7	7.3
Chignik/Kodiak	37,207	30,342	44,182	0.00	37,181	4,203	1.9	0.5	5.9	2.4	1.8
East of Kodiak	18,685	16,215	21,312	0.00	18,694	1,553	—	—	—	—	—
Total	291,741				291,750						

Note: Harvest is the number of chum salmon reported to have been harvested in the fishery.

Note: Harvest rate is the fishery harvest divided by the total run within the WASSIP area for a given reporting group, expressed as a percent.

Note: Harvest rates are calculated by dividing the harvest posterior by total run posterior distributions; therefore, mean harvest rate may not equal harvest rate calculated from numbers reported in the tables if distributions are highly skewed.

Note: Harvest rate for Asia and East of WASSIP were not calculated because they were not part of WASSIP plan.

^a Adjusted median; 1.00 times unadjusted median.

Table 127.—Post-June, South Alaska Peninsula, Commercial, Alaska Peninsula Area, Westward Region, 2009, all strata. Reporting group-specific harvest and harvest rate estimates. Medians, 90% credibility intervals, the probability that reporting group harvest estimate is equal to zero ($P = 0$), means, and SDs are reported.

Reporting Group	Harvest = 825,152; 8 strata						Harvest Rate (%)				
	Median ^a	90% CI		$P = 0$	Mean	SD	Median	90% CI		Mean	SD
		5%	95%					5%	95%		
Asia	17,561	15,354	19,959	0.00	17,582	1,399	—	—	—	—	—
Kotzebue Sound	1,130	551	1,896	0.00	1,164	412	0.1	0.0	0.4	0.2	0.1
CWAK	19,789	17,582	22,135	0.00	19,805	1,385	0.3	0.2	0.4	0.3	0.1
Upper Yukon River	188	30	854	0.00	288	271	0.0	0.0	0.1	0.1	0.0
Northern District	7,048	5,286	9,021	0.00	7,081	1,132	0.9	0.2	3.0	1.1	0.9
Northwestern District	9,392	7,498	11,579	0.00	9,439	1,244	2.0	0.5	5.1	2.3	1.5
South Peninsula	723,880	686,773	762,117	0.00	723,670	22,894	26.8	8.3	56.1	28.8	14.7
Chignik/Kodiak	40,825	32,181	49,819	0.00	40,854	5,352	1.6	0.4	5.1	2.0	1.5
East of Kodiak	5,339	3,933	7,093	0.00	5,399	963	—	—	—	—	—
Total	825,152				825,282						

Note: Harvest is the number of chum salmon reported to have been harvested in the fishery.

Note: Harvest rate is the fishery harvest divided by the total run within the WASSIP area for a given reporting group, expressed as a percent.

Note: Harvest rates are calculated by dividing the harvest posterior by total run posterior distributions; therefore, mean harvest rate may not equal harvest rate calculated from numbers reported in the tables if distributions are highly skewed.

Note: Harvest rate for Asia and East of WASSIP were not calculated because they were not part of WASSIP plan.

^a Adjusted median; 1.00 times unadjusted median.

Table 128.—Northern District, Commercial, Alaska Peninsula Area, Westward Region, 2007, all strata. Reporting group-specific harvest and harvest rate estimates. Medians, 90% credibility intervals, the probability that reporting group harvest estimate is equal to zero ($P = 0$), means, and SDs are reported.

Reporting Group	Harvest = 68,260; 4 strata						Harvest Rate (%)				
	Median ^a	90% CI		$P = 0$	Mean	SD	Median	90% CI		Mean	SD
		5%	95%					5%	95%		
Asia	29	0	273	0.34	70	98	—	—	—	—	—
Kotzebue Sound	0	0	83	0.84	13	57	0.0	0.0	0.0	0.0	0.0
CWAK	8,057	5,528	10,774	0.00	8,056	1,595	0.1	0.1	0.2	0.1	0.0
Upper Yukon River	0	0	4	0.91	2	13	0.0	0.0	0.0	0.0	0.0
Northern District	57,114	52,752	60,771	0.00	56,725	2,442	7.8	2.1	20.9	9.2	5.9
Northwestern District	778	1	2,067	0.05	870	639	0.0	0.0	0.3	0.1	0.1
South Peninsula	0	0	138	0.82	27	126	0.0	0.0	0.0	0.0	0.0
Chignik/Kodiak	0	0	1,051	0.52	191	371	0.0	0.0	0.1	0.0	0.0
East of Kodiak	2,282	1,508	3,197	0.00	2,300	517	—	—	—	—	—
Total	68,260				68,254						

Note: Harvest is the number of chum salmon reported to have been harvested in the fishery.

Note: Harvest rate is the fishery harvest divided by the total run within the WASSIP area for a given reporting group, expressed as a percent.

Note: Harvest rates are calculated by dividing the harvest posterior by total run posterior distributions; therefore, mean harvest rate may not equal harvest rate calculated from numbers reported in the tables if distributions are highly skewed.

Note: Harvest rate for Asia and East of WASSIP were not calculated because they were not part of WASSIP plan.

^a Adjusted median; 1.01 times unadjusted median.

Table 129.—Northern District, Commercial, Alaska Peninsula Area, Westward Region, 2008, all strata. Reporting group-specific harvest and harvest rate estimates. Medians, 90% credibility intervals, the probability that reporting group harvest estimate is equal to zero ($P = 0$), means, and SDs are reported.

Reporting Group	Harvest = 9,738; 3 strata						Harvest Rate (%)				
	Median ^a	90% CI		$P = 0$	Mean	SD	Median	90% CI		Mean	SD
		5%	95%					5%	95%		
Asia	0	0	1	0.95	0	2	—	—	—	—	—
Kotzebue Sound	0	0	2	0.92	1	4	0.0	0.0	0.0	0.0	0.0
CWAK	1,043	700	1,440	0.00	1,049	226	0.0	0.0	0.0	0.0	0.0
Upper Yukon River	0	0	1	0.95	0	2	0.0	0.0	0.0	0.0	0.0
Northern District	8,388	7,749	8,937	0.00	8,339	361	0.9	0.2	2.8	1.1	0.8
Northwestern District	35	0	161	0.32	50	57	0.0	0.0	0.0	0.0	0.0
South Peninsula	0	0	13	0.89	3	15	0.0	0.0	0.0	0.0	0.0
Chignik/Kodiak	0	0	124	0.57	22	44	0.0	0.0	0.0	0.0	0.0
East of Kodiak	272	180	381	0.00	273	61	—	—	—	—	—
Total	9,738				9,737						

Note: Harvest is the number of chum salmon reported to have been harvested in the fishery.

Note: Harvest rate is the fishery harvest divided by the total run within the WASSIP area for a given reporting group, expressed as a percent.

Note: Harvest rates are calculated by dividing the harvest posterior by total run posterior distributions; therefore, mean harvest rate may not equal harvest rate calculated from numbers reported in the tables if distributions are highly skewed.

Note: Harvest rate for Asia and East of WASSIP were not calculated because they were not part of WASSIP plan.

^a Adjusted median; 1.01 times unadjusted median.

Table 130.—Northern District, Commercial, Alaska Peninsula Area, Westward Region, 2009, all strata. Reporting group-specific harvest and harvest rate estimates. Medians, 90% credibility intervals, the probability that reporting group harvest estimate is equal to zero ($P = 0$), means, and SDs are reported.

Reporting Group	Harvest = 33,270; 4 strata						Harvest Rate (%)				
	Median ^a	90% CI		$P = 0$	Mean	SD	Median	90% CI		Mean	SD
		5%	95%					5%	95%		
Asia	0	0	3	0.92	1	10	—	—	—	—	—
Kotzebue Sound	0	0	5	0.91	2	17	0.0	0.0	0.0	0.0	0.0
CWAK	275	0	2,886	0.12	841	1,031	0.0	0.0	0.0	0.0	0.0
Upper Yukon River	0	0	3	0.92	1	9	0.0	0.0	0.0	0.0	0.0
Northern District	31,898	28,751	33,392	0.00	31,259	1,418	3.9	1.0	12.9	5.0	3.9
Northwestern District	1,017	511	1,639	0.00	1,028	346	0.2	0.0	0.6	0.2	0.2
South Peninsula	0	0	51	0.86	10	52	0.0	0.0	0.0	0.0	0.0
Chignik/Kodiak	0	0	207	0.70	33	83	0.0	0.0	0.0	0.0	0.0
East of Kodiak	80	17	226	0.00	95	67	—	—	—	—	—
Total	33,270				33,270						

Note: Harvest is the number of chum salmon reported to have been harvested in the fishery.

Note: Harvest rate is the fishery harvest divided by the total run within the WASSIP area for a given reporting group, expressed as a percent.

Note: Harvest rates are calculated by dividing the harvest posterior by total run posterior distributions; therefore, mean harvest rate may not equal harvest rate calculated from numbers reported in the tables if distributions are highly skewed.

Note: Harvest rate for Asia and East of WASSIP were not calculated because they were not part of WASSIP plan.

^a Adjusted median; 1.02 times unadjusted median.

Table 131.—Bristol Bay Area, Commercial, Central Region, 2007, all strata. Reporting group-specific harvest and harvest rate estimates. Medians, 90% credibility intervals, the probability that reporting group harvest estimate is equal to zero ($P = 0$), means, and SDs are reported.

Reporting Group	Harvest = 1,939,711; 15 strata						Harvest Rate (%)				
	Median ^a	90% CI		$P = 0$	Mean	SD	Median	90% CI		Mean	SD
		5%	95%					5%	95%		
Asia	2	0	264	0.43	56	209	—	—	—	—	—
Kotzebue Sound	4	0	753	0.37	155	538	0.0	0.0	0.1	0.0	0.1
CWAK	1,874,088	1,750,858	2,000,396	0.00	1,872,474	75,808	22.3	14.6	31.7	22.6	5.2
Upper Yukon River	3	0	521	0.39	109	399	0.0	0.0	0.0	0.0	0.0
Northern District	65,341	36,926	99,765	0.00	66,313	19,300	8.8	2.2	25.2	10.6	7.3
Northwestern District	1	0	284	0.45	61	249	0.0	0.0	0.0	0.0	0.0
South Peninsula	1	0	282	0.44	60	245	0.0	0.0	0.0	0.0	0.0
Chignik/Kodiak	1	0	318	0.44	67	265	0.0	0.0	0.0	0.0	0.0
East of Kodiak	270	44	914	0.00	353	337	—	—	—	—	—
Total	1,939,711				1,939,648						

Note: Harvest is the number of chum salmon reported to have been harvested in the fishery.

Note: Harvest rate is the fishery harvest divided by the total run within the WASSIP area for a given reporting group, expressed as a percent.

Note: Harvest rates are calculated by dividing the harvest posterior by total run posterior distributions; therefore, mean harvest rate may not equal harvest rate calculated from numbers reported in the tables if distributions are highly skewed.

Note: Harvest rate for Asia and East of WASSIP were not calculated because they were not part of WASSIP plan.

^a Adjusted median; 1.00 times unadjusted median.

Table 132.—Bristol Bay Area, Commercial, Central Region, 2008, all strata. Reporting group-specific harvest and harvest rate estimates. Medians, 90% credibility intervals, the probability that reporting group harvest estimate is equal to zero ($P = 0$), means, and SDs are reported.

Reporting Group	Harvest = 1,259,750; 15 strata						Harvest Rate (%)				
	Median ^a	90% CI		$P = 0$	Mean	SD	Median	90% CI		Mean	SD
		5%	95%					5%	95%		
Asia	2	0	209	0.43	41	123	—	—	—	—	—
Kotzebue Sound	16	0	1,696	0.31	308	666	0.0	0.0	0.2	0.0	0.1
CWAK	1,231,614	1,168,561	1,294,727	0.00	1,230,495	38,411	20.5	14.5	27.5	20.7	4.0
Upper Yukon River	2	0	323	0.42	61	183	0.0	0.0	0.0	0.0	0.0
Northern District	27,760	15,118	40,327	0.00	27,814	7,542	2.8	0.7	9.6	3.7	2.9
Northwestern District	10	0	785	0.33	151	313	0.0	0.0	0.1	0.0	0.0
South Peninsula	20	0	944	0.29	189	363	0.0	0.0	0.1	0.0	0.0
Chignik/Kodiak	90	0	1,353	0.22	323	497	0.0	0.0	0.1	0.0	0.0
East of Kodiak	235	1	1,339	0.05	391	467	—	—	—	—	—
Total	1,259,749				1,259,773						

Note: Harvest is the number of chum salmon reported to have been harvested in the fishery.

Note: Harvest rate is the fishery harvest divided by the total run within the WASSIP area for a given reporting group, expressed as a percent.

Note: Harvest rates are calculated by dividing the harvest posterior by total run posterior distributions; therefore, mean harvest rate may not equal harvest rate calculated from numbers reported in the tables if distributions are highly skewed.

Note: Harvest rate for Asia and East of WASSIP were not calculated because they were not part of WASSIP plan.

^a Adjusted median; 1.00 times unadjusted median.

Table 133.—Bristol Bay Area, Commercial, Central Region, 2009, all strata. Reporting group-specific harvest and harvest rate estimates. Medians, 90% credibility intervals, the probability that reporting group harvest estimate is equal to zero ($P = 0$), means, and SDs are reported.

Reporting Group	Harvest = 1,325,159; 15 strata						Harvest Rate (%)				
	Median ^a	90% CI		$P = 0$	Mean	SD	Median	90% CI		Mean	SD
		5%	95%					5%	95%		
Asia	1	0	188	0.46	39	151	—	—	—	—	—
Kotzebue Sound	5	0	1,022	0.36	182	526	0.0	0.0	0.1	0.0	0.1
CWAK	1,306,366	1,232,073	1,381,015	0.00	1,305,235	45,368	21.3	15.1	28.3	21.5	4.0
Upper Yukon River	2	0	329	0.42	62	197	0.0	0.0	0.1	0.0	0.0
Northern District	18,730	7,660	32,040	0.00	19,158	7,680	2.2	0.4	8.5	3.0	2.8
Northwestern District	1	0	214	0.45	43	154	0.0	0.0	0.0	0.0	0.0
South Peninsula	1	0	419	0.44	86	338	0.0	0.0	0.0	0.0	0.0
Chignik/Kodiak	1	0	306	0.44	67	271	0.0	0.0	0.0	0.0	0.0
East of Kodiak	52	3	1,825	0.01	365	668	—	—	—	—	—
Total	1,325,159				1,325,237						

Note: Harvest is the number of chum salmon reported to have been harvested in the fishery.

Note: Harvest rate is the fishery harvest divided by the total run within the WASSIP area for a given reporting group, expressed as a percent.

Note: Harvest rates are calculated by dividing the harvest posterior by total run posterior distributions; therefore, mean harvest rate may not equal harvest rate calculated from numbers reported in the tables if distributions are highly skewed.

Note: Harvest rate for Asia and East of WASSIP were not calculated because they were not part of WASSIP plan.

^a Adjusted median; 1.00 times unadjusted median.

Table 134.—Kuskokwim Area, Subsistence and Commercial, Arctic-Yukon-Kuskokwim Region, 2007, all strata. Reporting group-specific harvest and harvest rate estimates. Medians, 90% credibility intervals, the probability that reporting group harvest estimate is equal to zero ($P = 0$), means, and SDs are reported.

Reporting Group	Harvest = 92,180; 11 strata						Harvest Rate (%)				
	Median ^a	90% CI		$P = 0$	Mean	SD	Median	90% CI		Mean	SD
		5%	95%					5%	95%		
Asia	0	0	13	0.75	3	12	—	—	—	—	—
Kotzebue Sound	0	0	210	0.56	34	103	0.0	0.0	0.0	0.0	0.0
CWAK	92,176	86,597	98,923	0.00	92,106	3,824	1.1	0.7	1.6	1.1	0.3
Upper Yukon River	0	0	90	0.61	14	43	0.0	0.0	0.0	0.0	0.0
Northern District	0	0	49	0.54	12	43	0.0	0.0	0.0	0.0	0.0
Northwestern District	0	0	14	0.75	3	13	0.0	0.0	0.0	0.0	0.0
South Peninsula	0	0	19	0.66	4	12	0.0	0.0	0.0	0.0	0.0
Chignik/Kodiak	0	0	24	0.62	5	13	0.0	0.0	0.0	0.0	0.0
East of Kodiak	4	0	28	0.27	8	13	—	—	—	—	—
Total	92,180				92,189						

Note: Harvest is the number of chum salmon reported to have been harvested in the fishery.

Note: Harvest rate is the fishery harvest divided by the total run within the WASSIP area for a given reporting group, expressed as a percent.

Note: Harvest rates are calculated by dividing the harvest posterior by total run posterior distributions; therefore, mean harvest rate may not equal harvest rate calculated from numbers reported in the tables if distributions are highly skewed.

Note: Harvest rate for Asia and East of WASSIP were not calculated because they were not part of WASSIP plan.

^a Adjusted median; 1.01 times unadjusted median.

Table 135.–Kuskokwim Area, Subsistence and Commercial, Arctic-Yukon-Kuskokwim Region, 2008, all strata. Reporting group-specific harvest and harvest rate estimates. Medians, 90% credibility intervals, the probability that reporting group harvest estimate is equal to zero ($P = 0$), means, and SDs are reported.

Reporting Group	Harvest = 106,027; 11 strata						Harvest Rate (%)				
	Median ^a	90% CI		$P = 0$	Mean	SD	Median	90% CI		Mean	SD
		5%	95%					5%	95%		
Asia	5	0	36	0.10	10	16	–	–	–	–	–
Kotzebue Sound	0	0	87	0.51	16	43	0.0	0.0	0.0	0.0	0.0
CWAK	106,015	100,476	112,769	0.00	105,964	3,836	1.8	1.3	2.4	1.8	0.3
Upper Yukon River	1	0	53	0.47	12	29	0.0	0.0	0.0	0.0	0.0
Northern District	1	0	36	0.48	8	22	0.0	0.0	0.0	0.0	0.0
Northwestern District	0	0	22	0.51	5	13	0.0	0.0	0.0	0.0	0.0
South Peninsula	0	0	22	0.60	4	13	0.0	0.0	0.0	0.0	0.0
Chignik/Kodiak	0	0	26	0.55	5	15	0.0	0.0	0.0	0.0	0.0
East of Kodiak	5	0	32	0.25	9	14	–	–	–	–	–
Total	106,027				106,033						

Note: Harvest is the number of chum salmon reported to have been harvested in the fishery.

Note: Harvest rate is the fishery harvest divided by the total run within the WASSIP area for a given reporting group, expressed as a percent.

Note: Harvest rates are calculated by dividing the harvest posterior by total run posterior distributions; therefore, mean harvest rate may not equal harvest rate calculated from numbers reported in the tables if distributions are highly skewed.

Note: Harvest rate for Asia and East of WASSIP were not calculated because they were not part of WASSIP plan.

^a Adjusted median; 1.00 times unadjusted median.

Table 136.–Kuskokwim Area, Subsistence and Commercial, Arctic-Yukon-Kuskokwim Region, 2009, all strata. Reporting group-specific harvest and harvest rate estimates. Medians, 90% credibility intervals, the probability that reporting group harvest estimate is equal to zero ($P = 0$), means, and SDs are reported.

Reporting Group	Harvest = 193,003; 11 strata						Harvest Rate (%)				
	Median ^a	90% CI		$P = 0$	Mean	SD	Median	90% CI		Mean	SD
		5%	95%					5%	95%		
Asia	0	0	29	0.69	6	24	–	–	–	–	–
Kotzebue Sound	0	0	71	0.62	14	58	0.0	0.0	0.0	0.0	0.0
CWAK	192,999	185,162	201,542	0.00	192,936	5,020	3.2	2.2	4.2	3.2	0.6
Upper Yukon River	0	0	88	0.60	16	54	0.0	0.0	0.0	0.0	0.0
Northern District	0	0	59	0.64	11	47	0.0	0.0	0.0	0.0	0.0
Northwestern District	0	0	25	0.69	5	20	0.0	0.0	0.0	0.0	0.0
South Peninsula	0	0	29	0.61	6	21	0.0	0.0	0.0	0.0	0.0
Chignik/Kodiak	0	0	29	0.61	6	20	0.0	0.0	0.0	0.0	0.0
East of Kodiak	4	0	35	0.25	10	21	–	–	–	–	–
Total	193,003				193,010						

Note: Harvest is the number of chum salmon reported to have been harvested in the fishery.

Note: Harvest rate is the fishery harvest divided by the total run within the WASSIP area for a given reporting group, expressed as a percent.

Note: Harvest rates are calculated by dividing the harvest posterior by total run posterior distributions; therefore, mean harvest rate may not equal harvest rate calculated from numbers reported in the tables if distributions are highly skewed.

Note: Harvest rate for Asia and East of WASSIP were not calculated because they were not part of WASSIP plan.

^a Adjusted median; 1.00 times unadjusted median.

Table 137.—Yukon-Northern Area (summer), Subsistence and Commercial, Arctic-Yukon-Kuskokwim Region, 2007, all strata. Reporting group-specific harvest and harvest rate estimates. Medians, 90% credibility intervals, the probability that reporting group harvest estimate is equal to zero ($P = 0$), means, and SDs are reported.

Reporting Group	Harvest = 31,627; 8 strata						Harvest Rate (%)				
	Median ^a	90% CI		$P = 0$	Mean	SD	Median	90% CI		Mean	SD
		5%	95%					5%	95%		
Asia	9	0	57	0.24	16	20	—	—	—	—	—
Kotzebue Sound	0	0	12	0.77	2	11	0.0	0.0	0.0	0.0	0.0
CWAK	30,514	28,350	32,786	0.00	30,486	1,352	0.4	0.2	0.5	0.4	0.1
Upper Yukon River	1,104	776	1,491	0.00	1,113	218	0.1	0.1	0.1	0.1	0.0
Northern District	0	0	6	0.82	1	5	0.0	0.0	0.0	0.0	0.0
Northwestern District	0	0	5	0.83	1	5	0.0	0.0	0.0	0.0	0.0
South Peninsula	0	0	5	0.83	1	5	0.0	0.0	0.0	0.0	0.0
Chignik/Kodiak	0	0	5	0.83	1	5	0.0	0.0	0.0	0.0	0.0
East of Kodiak	0	0	5	0.82	1	5	—	—	—	—	—
Total	31,627				31,622						

Note: Harvest is the number of chum salmon reported to have been harvested in the fishery.

Note: Harvest rate is the fishery harvest divided by the total run within the WASSIP area for a given reporting group, expressed as a percent.

Note: Harvest rates are calculated by dividing the harvest posterior by total run posterior distributions; therefore, mean harvest rate may not equal harvest rate calculated from numbers reported in the tables if distributions are highly skewed.

Note: Harvest rate for Asia and East of WASSIP were not calculated because they were not part of WASSIP plan.

^a Adjusted median; 1.00 times unadjusted median.

Table 138.—Yukon-Northern Area (summer), Subsistence and Commercial, Arctic-Yukon-Kuskokwim Region, 2008, all strata. Reporting group-specific harvest and harvest rate estimates. Medians, 90% credibility intervals, the probability that reporting group harvest estimate is equal to zero ($P = 0$), means, and SDs are reported.

Reporting Group	Harvest = 23,936; 6 strata						Harvest Rate (%)				
	Median ^a	90% CI		$P = 0$	Mean	SD	Median	90% CI		Mean	SD
		5%	95%					5%	95%		
Asia	0	0	4	0.89	1	6	—	—	—	—	—
Kotzebue Sound	0	0	11	0.85	3	15	0.0	0.0	0.0	0.0	0.0
CWAK	22,546	20,403	24,861	0.00	22,540	1,358	0.4	0.3	0.5	0.4	0.1
Upper Yukon River	1,390	1,071	1,737	0.00	1,394	203	0.2	0.1	0.2	0.2	0.0
Northern District	0	0	3	0.89	1	5	0.0	0.0	0.0	0.0	0.0
Northwestern District	0	0	3	0.90	1	4	0.0	0.0	0.0	0.0	0.0
South Peninsula	0	0	3	0.90	1	4	0.0	0.0	0.0	0.0	0.0
Chignik/Kodiak	0	0	4	0.88	1	5	0.0	0.0	0.0	0.0	0.0
East of Kodiak	0	0	4	0.88	1	4	—	—	—	—	—
Total	23,936				23,943						

Note: Harvest is the number of chum salmon reported to have been harvested in the fishery.

Note: Harvest rate is the fishery harvest divided by the total run within the WASSIP area for a given reporting group, expressed as a percent.

Note: Harvest rates are calculated by dividing the harvest posterior by total run posterior distributions; therefore, mean harvest rate may not equal harvest rate calculated from numbers reported in the tables if distributions are highly skewed.

Note: Harvest rate for Asia and East of WASSIP were not calculated because they were not part of WASSIP plan.

^a Adjusted median; 1.00 times unadjusted median.

Table 139.—Yukon-Northern Area (summer), Subsistence and Commercial, Arctic-Yukon-Kuskokwim Region, 2009, all strata. Reporting group-specific harvest and harvest rate estimates. Medians, 90% credibility intervals, the probability that reporting group harvest estimate is equal to zero ($P = 0$), means, and SDs are reported.

Reporting Group	Harvest = 20,370; 7 strata						Harvest Rate (%)				
	Median ^a	90% CI		$P = 0$	Mean	SD	Median	90% CI		Mean	SD
		5%	95%					5%	95%		
Asia	0	0	3	0.88	1	3	—	—	—	—	—
Kotzebue Sound	0	0	12	0.82	2	9	0.0	0.0	0.0	0.0	0.0
CWAK	18,204	16,607	19,927	0.00	18,200	1,012	0.3	0.2	0.4	0.3	0.1
Upper Yukon River	2,166	1,842	2,495	0.00	2,164	199	0.4	0.3	0.4	0.4	0.0
Northern District	0	0	5	0.86	1	6	0.0	0.0	0.0	0.0	0.0
Northwestern District	0	0	3	0.88	1	3	0.0	0.0	0.0	0.0	0.0
South Peninsula	0	0	5	0.87	1	6	0.0	0.0	0.0	0.0	0.0
Chignik/Kodiak	0	0	7	0.85	2	8	0.0	0.0	0.0	0.0	0.0
East of Kodiak	0	0	3	0.88	1	3	—	—	—	—	—
Total	20,370				20,373						

Note: Harvest is the number of chum salmon reported to have been harvested in the fishery.

Note: Harvest rate is the fishery harvest divided by the total run within the WASSIP area for a given reporting group, expressed as a percent.

Note: Harvest rates are calculated by dividing the harvest posterior by total run posterior distributions; therefore, mean harvest rate may not equal harvest rate calculated from numbers reported in the tables if distributions are highly skewed.

Note: Harvest rate for Asia and East of WASSIP were not calculated because they were not part of WASSIP plan.

^a Adjusted median; 1.00 times unadjusted median.

Table 140.–Yukon-Northern Area (fall), Commercial, Arctic-Yukon-Kuskokwim Region, 2007, all strata. Reporting group-specific harvest and harvest rate estimates. Medians, 90% credibility intervals, the probability that reporting group harvest estimate is equal to zero ($P = 0$), means, and SDs are reported.

Reporting Group	Harvest = 38,852; 2 strata						Harvest Rate (%)				
	Median ^a	90% CI		$P = 0$	Mean	SD	Median	90% CI		Mean	SD
		5%	95%					5%	95%		
Asia	406	190	719	0.00	423	163	–	–	–	–	–
Kotzebue Sound	342	137	909	0.00	404	277	0.0	0.0	0.1	0.1	0.1
CWAK	1,257	214	2,560	0.01	1,307	706	0.0	0.0	0.0	0.0	0.0
Upper Yukon River	36,848	34,177	39,325	0.00	36,709	1,569	3.3	3.0	3.7	3.3	0.2
Northern District	0	0	5	0.91	2	20	0.0	0.0	0.0	0.0	0.0
Northwestern District	0	0	5	0.91	2	21	0.0	0.0	0.0	0.0	0.0
South Peninsula	0	0	4	0.91	2	19	0.0	0.0	0.0	0.0	0.0
Chignik/Kodiak	0	0	4	0.91	2	19	0.0	0.0	0.0	0.0	0.0
East of Kodiak	0	0	4	0.91	2	19	–	–	–	–	–
Total	38,853				38,853						

Note: Harvest is the number of chum salmon reported to have been harvested in the fishery.

Note: Harvest rate is the fishery harvest divided by the total run within the WASSIP area for a given reporting group, expressed as a percent.

Note: Harvest rates are calculated by dividing the harvest posterior by total run posterior distributions; therefore, mean harvest rate may not equal harvest rate calculated from numbers reported in the tables if distributions are highly skewed.

Note: Harvest rate for Asia and East of WASSIP were not calculated because they were not part of WASSIP plan.

^a Adjusted median; 1.00 times unadjusted median.

Table 141.–Yukon-Northern Area (fall), Commercial, Arctic-Yukon-Kuskokwim Region, 2008, all strata. Reporting group-specific harvest and harvest rate estimates. Medians, 90% credibility intervals, the probability that reporting group harvest estimate is equal to zero ($P = 0$), means, and SDs are reported.

Reporting Group	Harvest = 67,726; 4 strata						Harvest Rate (%)				
	Median ^a	90% CI		$P = 0$	Mean	SD	Median	90% CI		Mean	SD
		5%	95%					5%	95%		
Asia	346	163	634	0.00	365	148	–	–	–	–	–
Kotzebue Sound	1,048	663	1,533	0.00	1,064	269	0.1	0.0	0.2	0.1	0.1
CWAK	9,738	7,980	11,723	0.00	9,758	1,143	0.2	0.1	0.2	0.2	0.0
Upper Yukon River	56,594	52,822	60,109	0.00	56,417	2,212	6.3	5.6	7.0	6.3	0.4
Northern District	0	0	350	0.61	62	133	0.0	0.0	0.0	0.0	0.0
Northwestern District	0	0	14	0.87	5	34	0.0	0.0	0.0	0.0	0.0
South Peninsula	0	0	11	0.87	4	29	0.0	0.0	0.0	0.0	0.0
Chignik/Kodiak	0	0	345	0.69	54	131	0.0	0.0	0.0	0.0	0.0
East of Kodiak	0	0	8	0.88	2	17	–	–	–	–	–
Total	67,726				67,731						

Note: Harvest is the number of chum salmon reported to have been harvested in the fishery.

Note: Harvest rate is the fishery harvest divided by the total run within the WASSIP area for a given reporting group, expressed as a percent.

Note: Harvest rates are calculated by dividing the harvest posterior by total run posterior distributions; therefore, mean harvest rate may not equal harvest rate calculated from numbers reported in the tables if distributions are highly skewed.

Note: Harvest rate for Asia and East of WASSIP were not calculated because they were not part of WASSIP plan.

^a Adjusted median; 1.00 times unadjusted median.

Table 142.–Yukon-Northern Area (fall), Commercial, Arctic-Yukon-Kuskokwim Region, 2009, all strata. Reporting group-specific harvest and harvest rate estimates. Medians, 90% credibility intervals, the probability that reporting group harvest estimate is equal to zero ($P = 0$), means, and SDs are reported.

Reporting Group	Harvest = 11,911; 3 strata						Harvest Rate (%)				
	Median ^a	90% CI		$P = 0$	Mean	SD	Median	90% CI		Mean	SD
		5%	95%					5%	95%		
Asia	24	15	38	0.00	25	7	–	–	–	–	–
Kotzebue Sound	44	30	65	0.00	46	14	0.0	0.0	0.0	0.0	0.0
CWAK	2,908	2,371	3,512	0.00	2,917	348	0.0	0.0	0.1	0.0	0.0
Upper Yukon River	8,935	8,211	9,636	0.00	8,919	432	1.6	1.4	1.8	1.6	0.1
Northern District	0	0	2	0.91	1	5	0.0	0.0	0.0	0.0	0.0
Northwestern District	0	0	1	0.92	0	3	0.0	0.0	0.0	0.0	0.0
South Peninsula	0	0	1	0.92	0	3	0.0	0.0	0.0	0.0	0.0
Chignik/Kodiak	0	0	1	0.92	0	3	0.0	0.0	0.0	0.0	0.0
East of Kodiak	0	0	1	0.92	0	3	–	–	–	–	–
Total	11,911				11,908						

Note: Harvest is the number of chum salmon reported to have been harvested in the fishery.

Note: Harvest rate is the fishery harvest divided by the total run within the WASSIP area for a given reporting group, expressed as a percent.

Note: Harvest rates are calculated by dividing the harvest posterior by total run posterior distributions; therefore, mean harvest rate may not equal harvest rate calculated from numbers reported in the tables if distributions are highly skewed.

Note: Harvest rate for Asia and East of WASSIP were not calculated because they were not part of WASSIP plan.

^a Adjusted median; 1.00 times unadjusted median.

Table 143.—Norton Sound-Port Clarence Area, Subsistence and Commercial, Arctic-Yukon-Kuskokwim Region, 2007, all strata. Reporting group-specific harvest and harvest rate estimates. Medians, 90% credibility intervals, the probability that reporting group harvest estimate is equal to zero ($P = 0$), means, and SDs are reported.

Reporting Group	Harvest = 49,215; 15 strata						Harvest Rate (%)				
	Median ^a	90% CI		$P = 0$	Mean	SD	Median	90% CI		Mean	SD
		5%	95%					5%	95%		
Asia	0	0	10	0.74	2	6	—	—	—	—	—
Kotzebue Sound	1,430	907	2,028	0.00	1,443	341	0.2	0.1	0.4	0.2	0.1
CWAK	47,750	45,743	49,751	0.00	47,705	1,218	0.6	0.4	0.8	0.6	0.1
Upper Yukon River	35	0	178	0.13	53	60	0.0	0.0	0.0	0.0	0.0
Northern District	0	0	12	0.73	2	9	0.0	0.0	0.0	0.0	0.0
Northwestern District	0	0	8	0.77	1	5	0.0	0.0	0.0	0.0	0.0
South Peninsula	0	0	8	0.77	1	5	0.0	0.0	0.0	0.0	0.0
Chignik/Kodiak	0	0	8	0.77	1	5	0.0	0.0	0.0	0.0	0.0
East of Kodiak	0	0	9	0.74	2	5	—	—	—	—	—
Total	49,215				49,210						

Note: Harvest is the number of chum salmon reported to have been harvested in the fishery.

Note: Harvest rate is the fishery harvest divided by the total run within the WASSIP area for a given reporting group, expressed as a percent.

Note: Harvest rates are calculated by dividing the harvest posterior by total run posterior distributions; therefore, mean harvest rate may not equal harvest rate calculated from numbers reported in the tables if distributions are highly skewed.

Note: Harvest rate for Asia and East of WASSIP were not calculated because they were not part of WASSIP plan.

^a Adjusted median; 1.00 times unadjusted median.

Table 144.–Norton Sound-Port Clarence Area, Subsistence and Commercial, Arctic-Yukon-Kuskokwim Region, 2008, all strata. Reporting group-specific harvest and harvest rate estimates. Medians, 90% credibility intervals, the probability that reporting group harvest estimate is equal to zero ($P = 0$), means, and SDs are reported.

Reporting Group	Harvest = 39,624; 16 strata						Harvest Rate (%)				
	Median ^a	90% CI		$P = 0$	Mean	SD	Median	90% CI		Mean	SD
		5%	95%					5%	95%		
Asia	0	0	21	0.63	4	12	–	–	–	–	–
Kotzebue Sound	923	348	1,521	0.00	910	367	0.1	0.0	0.2	0.1	0.1
CWAK	38,686	35,384	42,993	0.00	38,666	2,385	0.6	0.5	0.9	0.7	0.1
Upper Yukon River	8	0	147	0.30	30	58	0.0	0.0	0.0	0.0	0.0
Northern District	0	0	13	0.70	3	10	0.0	0.0	0.0	0.0	0.0
Northwestern District	0	0	10	0.72	2	7	0.0	0.0	0.0	0.0	0.0
South Peninsula	0	0	9	0.74	2	6	0.0	0.0	0.0	0.0	0.0
Chignik/Kodiak	0	0	11	0.72	2	8	0.0	0.0	0.0	0.0	0.0
East of Kodiak	7	0	32	0.06	11	12	–	–	–	–	–
Total	39,624				39,630						

Note: Harvest is the number of chum salmon reported to have been harvested in the fishery.

Note: Harvest rate is the fishery harvest divided by the total run within the WASSIP area for a given reporting group, expressed as a percent.

Note: Harvest rates are calculated by dividing the harvest posterior by total run posterior distributions; therefore, mean harvest rate may not equal harvest rate calculated from numbers reported in the tables if distributions are highly skewed.

Note: Harvest rate for Asia and East of WASSIP were not calculated because they were not part of WASSIP plan.

^a Adjusted median; 1.01 times unadjusted median.

Table 145.–Norton Sound-Port Clarence Area, Subsistence and Commercial, Arctic-Yukon-Kuskokwim Region, 2009, all strata. Reporting group-specific harvest and harvest rate estimates. Medians, 90% credibility intervals, the probability that reporting group harvest estimate is equal to zero ($P = 0$), means, and SDs are reported.

Reporting Group	Harvest = 42,295; 16 strata						Harvest Rate (%)				
	Median ^a	90% CI		$P = 0$	Mean	SD	Median	90% CI		Mean	SD
		5%	95%					5%	95%		
Asia	0	0	22	0.68	5	19	–	–	–	–	–
Kotzebue Sound	318	115	833	0.00	374	228	0.0	0.0	0.1	0.1	0.0
CWAK	41,854	40,351	43,218	0.00	41,772	871	0.7	0.5	0.9	0.7	0.1
Upper Yukon River	123	1	350	0.04	136	118	0.0	0.0	0.1	0.0	0.0
Northern District	0	0	11	0.71	2	9	0.0	0.0	0.0	0.0	0.0
Northwestern District	0	0	8	0.74	2	7	0.0	0.0	0.0	0.0	0.0
South Peninsula	0	0	9	0.74	2	8	0.0	0.0	0.0	0.0	0.0
Chignik/Kodiak	0	0	10	0.73	2	9	0.0	0.0	0.0	0.0	0.0
East of Kodiak	0	0	9	0.72	2	8	–	–	–	–	–
Total	42,295				42,297						

Note: Harvest is the number of chum salmon reported to have been harvested in the fishery.

Note: Harvest rate is the fishery harvest divided by the total run within the WASSIP area for a given reporting group, expressed as a percent.

Note: Harvest rates are calculated by dividing the harvest posterior by total run posterior distributions; therefore, mean harvest rate may not equal harvest rate calculated from numbers reported in the tables if distributions are highly skewed.

Note: Harvest rate for Asia and East of WASSIP were not calculated because they were not part of WASSIP plan.

^a Adjusted median; 1.00 times unadjusted median.

Table 146.—Kotzebue Area, Commercial, Arctic-Yukon-Kuskokwim Region, 2007, all strata. Reporting group-specific harvest and harvest rate estimates. Medians, 90% credibility intervals, the probability that reporting group harvest estimate is equal to zero ($P = 0$), means, and SDs are reported.

Reporting Group	Harvest = 147,087; 1 stratum						Harvest Rate (%)				
	Median ^a	90% CI		$P = 0$	Mean	SD	Median	90% CI		Mean	SD
		5%	95%					5%	95%		
Asia	0	0	1	0.94	4	38	—	—	—	—	—
Kotzebue Sound	147,087	134,925	159,253	0.00	146,801	7,392	18.0	5.5	41.3	20.0	11.1
CWAK	0	0	1,664	0.70	240	869	0.0	0.0	0.0	0.0	0.0
Upper Yukon River	0	0	5	0.93	12	102	0.0	0.0	0.0	0.0	0.0
Northern District	0	0	2	0.94	6	53	0.0	0.0	0.0	0.0	0.0
Northwestern District	0	0	1	0.94	4	38	0.0	0.0	0.0	0.0	0.0
South Peninsula	0	0	2	0.94	5	49	0.0	0.0	0.0	0.0	0.0
Chignik/Kodiak	0	0	2	0.94	7	62	0.0	0.0	0.0	0.0	0.0
East of Kodiak	0	0	1	0.94	4	36	—	—	—	—	—
Total	147,087				147,083						

Note: Harvest is the number of chum salmon reported to have been harvested in the fishery.

Note: Harvest rate is the fishery harvest divided by the total run within the WASSIP area for a given reporting group, expressed as a percent.

Note: Harvest rates are calculated by dividing the harvest posterior by total run posterior distributions; therefore, mean harvest rate may not equal harvest rate calculated from numbers reported in the tables if distributions are highly skewed.

Note: Harvest rate for Asia and East of WASSIP were not calculated because they were not part of WASSIP plan.

^a Adjusted median; 1.00 times unadjusted median.

Table 147.—Kotzebue Area, Commercial, Arctic-Yukon-Kuskokwim Region, 2008, all strata. Reporting group-specific harvest and harvest rate estimates. Medians, 90% credibility intervals, the probability that reporting group harvest estimate is equal to zero ($P = 0$), means, and SDs are reported.

Reporting Group	Harvest = 190,550; 1 stratum						Harvest Rate (%)				
	Median ^a	90% CI		$P = 0$	Mean	SD	Median	90% CI		Mean	SD
		5%	95%					5%	95%		
Asia	0	0	2	0.94	5	52	—	—	—	—	—
Kotzebue Sound	190,550	175,118	206,328	0.00	190,269	9,524	17.0	5.1	40.7	19.2	11.1
CWAK	0	0	48	0.91	63	459	0.0	0.0	0.0	0.0	0.0
Upper Yukon River	0	0	1,379	0.81	178	595	0.0	0.0	0.2	0.0	0.1
Northern District	0	0	2	0.94	6	55	0.0	0.0	0.0	0.0	0.0
Northwestern District	0	0	4	0.93	8	75	0.0	0.0	0.0	0.0	0.0
South Peninsula	0	0	2	0.94	5	53	0.0	0.0	0.0	0.0	0.0
Chignik/Kodiak	0	0	2	0.94	5	50	0.0	0.0	0.0	0.0	0.0
East of Kodiak	0	0	2	0.94	5	45	—	—	—	—	—
Total	190,550				190,544						

Note: Harvest is the number of chum salmon reported to have been harvested in the fishery.

Note: Harvest rate is the fishery harvest divided by the total run within the WASSIP area for a given reporting group, expressed as a percent.

Note: Harvest rates are calculated by dividing the harvest posterior by total run posterior distributions; therefore, mean harvest rate may not equal harvest rate calculated from numbers reported in the tables if distributions are highly skewed.

Note: Harvest rate for Asia and East of WASSIP were not calculated because they were not part of WASSIP plan.

^a Adjusted median; 1.00 times unadjusted median.

Table 148.—Kotzebue Area, Commercial, Arctic-Yukon-Kuskokwim Region, 2009, all strata. Reporting group-specific harvest and harvest rate estimates. Medians, 90% credibility intervals, the probability that reporting group harvest estimate is equal to zero ($P = 0$), means, and SDs are reported.

Reporting Group	Harvest = 187,562; 1 stratum						Harvest Rate (%)				
	Median ^a	90% CI		$P = 0$	Mean	SD	Median	90% CI		Mean	SD
		5%	95%					5%	95%		
Asia	0	0	9	0.92	15	120	—	—	—	—	—
Kotzebue Sound	187,562	170,994	202,571	0.00	186,479	9,607	25.0	8.3	50.4	26.6	12.9
CWAK	0	0	6,379	0.78	777	2,261	0.0	0.0	0.1	0.0	0.0
Upper Yukon River	0	0	1,818	0.74	271	694	0.0	0.0	0.3	0.0	0.1
Northern District	0	0	3	0.93	8	76	0.0	0.0	0.0	0.0	0.0
Northwestern District	0	0	2	0.94	5	50	0.0	0.0	0.0	0.0	0.0
South Peninsula	0	0	2	0.94	5	54	0.0	0.0	0.0	0.0	0.0
Chignik/Kodiak	0	0	2	0.94	5	50	0.0	0.0	0.0	0.0	0.0
East of Kodiak	0	0	2	0.94	5	46	—	—	—	—	—
Total	187,562				187,570						

Note: Harvest is the number of chum salmon reported to have been harvested in the fishery.

Note: Harvest rate is the fishery harvest divided by the total run within the WASSIP area for a given reporting group, expressed as a percent.

Note: Harvest rates are calculated by dividing the harvest posterior by total run posterior distributions; therefore, mean harvest rate may not equal harvest rate calculated from numbers reported in the tables if distributions are highly skewed.

Note: Harvest rate for Asia and East of WASSIP were not calculated because they were not part of WASSIP plan.

^a Adjusted median; 1.01 times unadjusted median.

**TABLES 149-151: HARVEST AND HARVEST RATE IN THE
WASSIP AREA BY REPORTING GROUP**

WHAT STOCKS WERE HARVESTED IN ALL WASSIP FISHERIES?

Table 149.—WASSIP fisheries, 2007, all strata. Reporting group-specific harvest and harvest rate estimates. Medians, 90% credibility intervals, the probability that reporting group harvest estimate is equal to zero ($P = 0$), means, and SDs are reported.

Reporting Group	Harvest = 3,116,640; 88 strata						Harvest Rate (%)				
	Median ^a	90% CI		$P = 0$	Mean	SD	Median	90% CI		Mean	SD
		5%	95%					5%	95%		
Asia	112,399	107,009	117,723	0.00	112,299	3,268	—	—	—	—	—
Kotzebue Sound	150,637	138,704	163,256	0.00	150,660	7,470	18.5	5.7	42.4	20.6	11.3
CWAK ^b	2,245,803	2,123,096	2,373,081	0.00	2,245,151	76,020	26.7	17.5	37.9	27.1	6.2
Upper Yukon ^b	42,469	39,544	45,498	0.00	42,455	1,825	3.8	3.4	4.3	3.8	0.3
Northern Dist. ^b	125,516	96,727	160,119	0.00	126,434	19,452	17.3	4.6	46.5	20.3	13.1
Northwestern Dist. ^b	11,353	8,842	14,323	0.00	11,431	1,673	0.8	0.2	2.8	1.0	0.9
South Peninsula	250,264	237,684	262,647	0.00	250,038	7,582	7.8	1.9	26.8	10.2	8.2
Chignik/Kodiak	100,396	91,275	109,666	0.00	100,352	5,583	4.1	1.0	15.5	5.6	5.1
East of Kodiak	77,803	73,492	82,168	0.00	77,753	2,642	—	—	—	—	—
Total	3,116,640				3,116,573						

Note: Harvest is the number of chum salmon reported to have been harvested in all of the fisheries in the WASSIP sampling plan.

Note: Harvest rate is the WASSIP commercial and subsistence harvest divided by the total run within the WASSIP area for a given reporting group, expressed as a percent.

Note: Harvest rates are calculated by dividing the harvest posterior by total run posterior distributions; therefore, mean harvest rate may not equal harvest rate calculated from numbers reported in the tables if distributions are highly skewed.

Note: Harvest rate for Asia and East of WASSIP were not calculated because they were not part of WASSIP plan.

^a Adjusted median; 1.00 times unadjusted median.

^b WASSIP plus terminal or inriver commercial harvest and harvest rates are shown in Appendix B4.

Table 150.—WASSIP fisheries, 2008, all strata. Reporting group-specific harvest and harvest rate estimates. Medians, 90% credibility intervals, the probability that reporting group harvest estimate is equal to zero ($P = 0$), means, and SDs are reported.

Reporting Group	Harvest = 2,681,611; 88 strata						Harvest Rate (%)				
	Median ^a	90% CI		$P = 0$	Mean	SD	Median	90% CI		Mean	SD
		5%	95%					5%	95%		
Asia	175,758	168,065	183,534	0.00	175,735	4,704	—	—	—	—	—
Kotzebue Sound	197,172	181,914	213,542	0.00	197,281	9,655	17.6	5.3	42.2	19.9	11.5
CWAK ^b	1,635,906	1,572,577	1,701,155	0.00	1,635,819	39,189	27.2	19.4	36.6	27.5	5.2
Upper Yukon ^b	68,835	62,538	74,391	0.00	68,631	3,642	7.7	6.8	8.6	7.7	0.6
Northern Dist. ^b	44,232	31,070	57,357	0.00	44,298	7,869	4.6	1.1	14.9	5.8	4.5
Northwestern Dist. ^b	23,119	19,511	26,954	0.00	23,152	2,266	1.7	0.4	5.7	2.2	1.7
South Peninsula	249,337	236,600	262,333	0.00	249,313	7,789	10.9	2.8	34.4	13.7	10.2
Chignik/Kodiak	233,507	220,593	246,419	0.00	233,437	7,848	12.0	3.1	36.9	14.9	10.9
East of Kodiak	53,744	48,057	60,621	0.00	53,982	3,886	—	—	—	—	—
Total	2,681,610				2,681,648						

Note: Harvest is the number of chum salmon reported to have been harvested in all of the fisheries in the WASSIP sampling plan.

Note: Harvest rate is the WASSIP commercial and subsistence harvest divided by the total run within the WASSIP area for a given reporting group, expressed as a percent.

Note: Harvest rates are calculated by dividing the harvest posterior by total run posterior distributions; therefore, mean harvest rate may not equal harvest rate calculated from numbers reported in the tables if distributions are highly skewed.

Note: Harvest rate for Asia and East of WASSIP were not calculated because they were not part of WASSIP plan.

^a Adjusted median; 1.00 times unadjusted median.

^b WASSIP plus terminal or inriver commercial harvest and harvest rates are shown in Appendix B4.

Table 151.—WASSIP fisheries, 2009, all strata. Reporting group-specific harvest and harvest rate estimates. Medians, 90% credibility intervals, the probability that reporting group harvest estimate is equal to zero ($P = 0$), means, and SDs are reported.

Reporting Group	Harvest = 3,741,717; 90 strata						Harvest Rate (%)				
	Median ^a	90% CI		$P = 0$	Mean	SD	Median	90% CI		Mean	SD
		5%	95%					5%	95%		
Asia	222,839	210,173	235,850	0.00	222,834	7,801	—	—	—	—	—
Kotzebue Sound	191,377	175,738	207,811	0.00	191,457	9,763	25.7	8.5	51.8	27.4	13.3
CWAK ^b	2,036,388	1,960,415	2,114,685	0.00	2,036,101	47,004	33.2	23.7	44.1	33.5	6.2
Upper Yukon ^b	13,396	11,641	16,090	0.00	13,565	1,380	2.3	2.0	2.9	2.4	0.3
Northern Dist. ^b	63,979	52,357	77,932	0.00	64,411	8,056	7.9	1.9	26.7	10.2	8.1
Northwestern Dist. ^b	43,914	38,208	50,105	0.00	43,979	3,628	9.2	2.6	23.7	10.6	6.6
South Peninsula	856,570	817,018	897,522	0.00	856,535	24,473	31.7	9.8	66.3	34.1	17.4
Chignik/Kodiak	266,444	249,433	282,612	0.00	266,195	10,072	10.2	2.6	32.8	13.0	9.8
East of Kodiak	46,810	41,103	53,195	0.00	46,911	3,676	—	—	—	—	—
Total	3,741,717				3,741,988						

Note: Harvest is the number of chum salmon reported to have been harvested in all of the fisheries in the WASSIP sampling plan.

Note: Harvest rate is the WASSIP commercial and subsistence harvest divided by the total run within the WASSIP area for a given reporting group, expressed as a percent.

Note: Harvest rates are calculated by dividing the harvest posterior by total run posterior distributions; therefore, mean harvest rate may not equal harvest rate calculated from numbers reported in the tables if distributions are highly skewed.

Note: Harvest rate for Asia and East of WASSIP were not calculated because they were not part of WASSIP plan.

^a Adjusted median; 1.00 times unadjusted median.

^b WASSIP plus terminal or inriver commercial harvest and harvest rates are shown in Appendix B4.

**TABLES 152-178: HARVEST AND HARVEST RATE OF A
REPORTING GROUP BY FISHERY**

***IN WHAT BROAD-SCALE FISHERY WAS A GIVEN STOCK
HARVESTED?***

Table 152.—Asia reporting group, 2007, all strata. Reporting group-specific harvest and harvest rate estimates by fishery. Medians, 90% credibility intervals, and the probability that reporting group harvest estimate is equal to zero ($P = 0$) are reported.

Region	Fishery	Harvest				Harvest Rate (%)		
		Median ^a	90% CI		$P = 0$	Median	90% CI	
			5%	95%			5%	95%
Westward	Chignik Area	10,271	9,019	11,646	0.00	—	—	—
	SEDM	0	0	0	1.00	—	—	—
	S. AK Pen June	60,728	57,317	64,327	0.00	—	—	—
	S. AK Pen post-June	40,629	36,939	44,560	0.00	—	—	—
	Northern District	29	0	273	0.34	—	—	—
Central	Bristol Bay Area	2	0	264	0.43	—	—	—
AYK	Kuskokwim Area	0	0	13	0.75	—	—	—
	Yukon Area summer	9	0	57	0.24	—	—	—
	Yukon Area fall	404	190	719	0.00	—	—	—
	Norton S. – P.C. Area	0	0	10	0.74	—	—	—
	Kotzebue Area	0	0	1	0.94	—	—	—
Total		112,312						

Note: Harvest is the number of chum salmon reported to have been harvested in the fishery.

Note: Harvest rate is the fishery harvest divided by the total run within the WASSIP area for a given reporting group, expressed as a percent. Total run for Asia was not estimated for WASSIP; therefore, no harvest rate estimates are provided.

^a Adjusted median. Adjustment values vary by fishery (see Tables 116–148) for values.

Table 153.—Asia reporting group, 2008, all strata. Reporting group-specific harvest and harvest rate estimates by fishery. Medians, 90% credibility intervals, and the probability that reporting group harvest estimate is equal to zero ($P = 0$) are reported.

Region	Fishery	Harvest				Harvest Rate (%)		
		Median ^a	90% CI		$P = 0$	Median	90% CI	
			5%	95%			5%	95%
Westward	Chignik Area	16,893	14,469	19,601	0.00	—	—	—
	SEDM	454	209	836	0.00	—	—	—
	S. AK Pen June	117,105	110,778	123,777	0.00	—	—	—
	S. AK Pen post-June	40,686	37,526	44,000	0.00	—	—	—
	Northern District	0	0	1	0.95	—	—	—
Central	Bristol Bay Area	2	0	209	0.43	—	—	—
AYK	Kuskokwim Area	5	0	36	0.10	—	—	—
	Yukon Area summer	0	0	4	0.89	—	—	—
	Yukon Area fall	345	163	634	0.00	—	—	—
	Norton S. – P.C. Area	0	0	21	0.63	—	—	—
	Kotzebue Area	0	0	2	0.94	—	—	—
Total		175,811						

Note: Harvest is the number of chum salmon reported to have been harvested in the fishery.

Note: Harvest rate is the fishery harvest divided by the total run within the WASSIP area for a given reporting group, expressed as a percent. Total run for Asia was not estimated for WASSIP; therefore, no harvest rate estimates are provided.

^a Adjusted median. Adjustment values vary by fishery (see Tables 116–148) for values.

Table 154.–Asia reporting group, 2009, all strata. Reporting group-specific harvest and harvest rate estimates by fishery. Medians, 90% credibility intervals, and the probability that reporting group harvest estimate is equal to zero ($P = 0$) are reported.

Region	Fishery	Harvest				Harvest Rate (%)		
		Median ^a	90% CI		$P = 0$	Median	90% CI	
			5%	95%			5%	95%
Westward	Chignik Area	25,635	21,729	30,023	0.00	–	–	–
	SEDM	687	247	1,405	0.00	–	–	–
	S. AK Pen June	178,598	167,010	190,785	0.00	–	–	–
	S. AK Pen post-June	17,544	15,354	19,959	0.00	–	–	–
	Northern District	0	0	3	0.92	–	–	–
Central	Bristol Bay Area	1	0	188	0.46	–	–	–
AYK	Kuskokwim Area	0	0	29	0.69	–	–	–
	Yukon Area summer	0	0	3	0.88	–	–	–
	Yukon Area fall	24	15	38	0.00	–	–	–
	Norton S. – P.C. Area	0	0	22	0.68	–	–	–
	Kotzebue Area	0	0	9	0.92	–	–	–
Total		223,063						

Note: Harvest is the number of chum salmon reported to have been harvested in the fishery.

Note: Harvest rate is the fishery harvest divided by the total run within the WASSIP area for a given reporting group, expressed as a percent. Total run for Asia was not estimated for WASSIP; therefore, no harvest rate estimates are provided.

^a Adjusted median. Adjustment values vary by fishery (see Tables 116–148) for values.

Table 155.–Kotzebue Sound reporting group, 2007, all strata. Reporting group-specific harvest and harvest rate estimates by fishery. Medians, 90% credibility intervals, and the probability that reporting group harvest estimate is equal to zero ($P = 0$) are reported.

Region	Fishery	Harvest				Harvest Rate (%)		
		Median ^a	90% CI		$P = 0$	Median	90% CI	
			5%	95%			5%	95%
Westward	Chignik Area	0	0	298	0.59	0.0	0.0	0.0
	SEDM	0	0	0	1.00	0.0	0.0	0.0
	S. AK Pen June	1,265	506	2,478	0.00	0.1	0.0	0.5
	S. AK Pen post-June	292	0	1,239	0.20	0.0	0.0	0.2
	Northern District	0	0	83	0.84	0.0	0.0	0.0
Central	Bristol Bay Area	4	0	753	0.37	0.0	0.0	0.1
AYK	Kuskokwim Area	0	0	210	0.56	0.0	0.0	0.0
	Yukon Area summer	0	0	12	0.77	0.0	0.0	0.0
	Yukon Area fall	340	137	909	0.00	0.0	0.0	0.1
	Norton S. – P.C. Area	1,428	907	2,028	0.00	0.2	0.1	0.4
	Kotzebue Area	146,608	134,925	159,253	0.00	18.0	5.5	41.3
Total		150,422						

Note: Harvest is the number of chum salmon reported to have been harvested in the fishery.

Note: Harvest rate is the fishery harvest divided by the total run within the WASSIP area for a given reporting group, expressed as a percent.

^a Adjusted median. Adjustment values vary by fishery (see Tables 116–148) for values.

Table 156.–Kotzebue Sound reporting group, 2008, all strata. Reporting group-specific harvest and harvest rate estimates by fishery. Medians, 90% credibility intervals, and the probability that reporting group harvest estimate is equal to zero ($P = 0$) are reported.

Region	Fishery	Harvest				Harvest Rate (%)		
		Median ^a	90% CI		$P = 0$	Median	90% CI	
			5%	95%			5%	95%
Westward	Chignik Area	43	0	286	0.33	0.0	0.0	0.0
	SEDM	0	0	0	0.95	0.0	0.0	0.0
	S. AK Pen June	4,089	2,040	6,487	0.00	0.3	0.1	1.0
	S. AK Pen post-June	340	130	1,268	0.00	0.0	0.0	0.2
	Northern District	0	0	2	0.92	0.0	0.0	0.0
Central	Bristol Bay Area	16	0	1,696	0.31	0.0	0.0	0.2
AYK	Kuskokwim Area	0	0	87	0.51	0.0	0.0	0.0
	Yukon Area summer	0	0	11	0.85	0.0	0.0	0.0
	Yukon Area fall	1,044	663	1,533	0.00	0.1	0.0	0.2
	Norton S. – P.C. Area	915	348	1,521	0.00	0.1	0.0	0.2
	Kotzebue Area	190,061	175,118	206,328	0.00	17.0	5.1	40.7
Total		197,018						

Note: Harvest is the number of chum salmon reported to have been harvested in the fishery.

Note: Harvest rate is the fishery harvest divided by the total run within the WASSIP area for a given reporting group, expressed as a percent.

^a Adjusted median. Adjustment values vary by fishery (see Tables 116–148) for values.

Table 157.—Kotzebue Sound reporting group, 2009, all strata. Reporting group-specific harvest and harvest rate estimates by fishery. Medians, 90% credibility intervals, and the probability that reporting group harvest estimate is equal to zero ($P = 0$) are reported.

Region	Fishery	Harvest				Harvest Rate (%)		
		Median ^a	90% CI		$P = 0$	Median	90% CI	
			5%	95%			5%	95%
Westward	Chignik Area	0	0	2,900	0.68	0.0	0.0	0.4
	SEDM	0	0	4	0.93	0.0	0.0	0.0
	S. AK Pen June	2,471	1,139	5,600	0.00	0.3	0.1	1.0
	S. AK Pen post-June	1,129	551	1,896	0.00	0.1	0.0	0.4
	Northern District	0	0	5	0.91	0.0	0.0	0.0
Central	Bristol Bay Area	5	0	1,022	0.36	0.0	0.0	0.1
AYK	Kuskokwim Area	0	0	71	0.62	0.0	0.0	0.0
	Yukon Area summer	0	0	12	0.82	0.0	0.0	0.0
	Yukon Area fall	44	30	65	0.00	0.0	0.0	0.0
	Norton S. – P.C. Area	317	115	833	0.00	0.0	0.0	0.1
	Kotzebue Area	186,304	170,994	202,571	0.00	25.0	8.3	50.4
Total		191,536						

Note: Harvest is the number of chum salmon reported to have been harvested in the fishery.

Note: Harvest rate is the fishery harvest divided by the total run within the WASSIP area for a given reporting group, expressed as a percent.

^a Adjusted median. Adjustment values vary by fishery (see Tables 116–148) for values.

Table 158.—CWAK reporting group, 2007, all strata. Reporting group-specific harvest and harvest rate estimates by fishery. Medians, 90% credibility intervals, and the probability that reporting group harvest estimate is equal to zero ($P = 0$) are reported.

Region	Fishery	Harvest				Harvest Rate (%)		
		Median ^a	90% CI		$P = 0$	Median	90% CI	
			5%	95%			5%	95%
Westward	Chignik Area	2,716	2,119	3,401	0.00	0.0	0.0	0.0
	SEDM	0	0	0	1.00	0.0	0.0	0.0
	S. AK Pen June	177,840	171,911	183,912	0.00	2.1	1.4	3.0
	S. AK Pen post-June	12,135	10,070	14,442	0.00	0.1	0.1	0.2
	Northern District	7,999	5,528	10,774	0.00	0.1	0.1	0.2
Central	Bristol Bay Area	1,870,560	1,750,858	2,000,396	0.00	22.3	14.6	31.7
AYK	Kuskokwim Area	91,708	86,597	98,923	0.00	1.1	0.7	1.6
	Yukon Area summer	30,440	28,350	32,786	0.00	0.4	0.2	0.5
	Yukon Area fall	1,251	214	2,560	0.01	0.0	0.0	0.0
	Norton S. – P.C. Area	47,686	45,743	49,751	0.00	0.6	0.4	0.8
	Kotzebue Area	0	0	1,664	0.70	0.0	0.0	0.0
Total		2,246,848						

Note: Harvest is the number of chum salmon reported to have been harvested in the fishery.

Note: Harvest rate is the fishery harvest divided by the total run within the WASSIP area for a given reporting group, expressed as a percent.

^a Adjusted median. Adjustment values vary by fishery (see Tables 116–148) for values.

Table 159.—CWAK reporting group, 2008, all strata. Reporting group-specific harvest and harvest rate estimates by fishery. Medians, 90% credibility intervals, and the probability that reporting group harvest estimate is equal to zero ($P = 0$) are reported.

Region	Fishery	Harvest				Harvest Rate (%)		
		Median ^a	90% CI		$P = 0$	Median	90% CI	
			5%	95%			5%	95%
Westward	Chignik Area	4,675	3,168	6,246	0.00	0.1	0.0	0.1
	SEDM	257	91	547	0.00	0.0	0.0	0.0
	S. AK Pen June	214,428	205,256	223,882	0.00	3.6	2.5	4.8
	S. AK Pen post-June	7,823	6,387	9,414	0.00	0.1	0.1	0.2
	Northern District	1,036	700	1,440	0.00	0.0	0.0	0.0
Central	Bristol Bay Area	1,229,873	1,168,561	1,294,727	0.00	20.5	14.5	27.5
AYK	Kuskokwim Area	105,562	100,476	112,769	0.00	1.8	1.3	2.4
	Yukon Area summer	22,482	20,403	24,861	0.00	0.4	0.3	0.5
	Yukon Area fall	9,702	7,980	11,723	0.00	0.2	0.1	0.2
	Norton S. – P.C. Area	38,354	35,384	42,993	0.00	0.6	0.5	0.9
	Kotzebue Area	0	0	48	0.91	0.0	0.0	0.0
Total		1,637,273						

Note: Harvest is the number of chum salmon reported to have been harvested in the fishery.

Note: Harvest rate is the fishery harvest divided by the total run within the WASSIP area for a given reporting group, expressed as a percent.

^a Adjusted median. Adjustment values vary by fishery (see Tables 116–148) for values.

Table 160.—CWAK reporting group, 2009, all strata. Reporting group-specific harvest and harvest rate estimates by fishery. Medians, 90% credibility intervals, and the probability that reporting group harvest estimate is equal to zero ($P = 0$) are reported.

Region	Fishery	Harvest				Harvest Rate (%)		
		Median ^a	90% CI		$P = 0$	Median	90% CI	
			5%	95%			5%	95%
Westward	Chignik Area	31,868	26,878	37,247	0.00	0.5	0.4	0.7
	SEDM	891	434	1,593	0.00	0.0	0.0	0.0
	S. AK Pen June	420,633	404,060	437,596	0.00	6.9	4.9	9.1
	S. AK Pen post-June	19,770	17,582	22,135	0.00	0.3	0.2	0.4
	Northern District	270	0	2,886	0.12	0.0	0.0	0.0
Central	Bristol Bay Area	1,304,304	1,232,073	1,381,015	0.00	21.3	15.1	28.3
AYK	Kuskokwim Area	192,678	185,162	201,542	0.00	3.2	2.2	4.2
	Yukon Area summer	18,160	16,607	19,927	0.00	0.3	0.2	0.4
	Yukon Area fall	2,902	2,371	3,512	0.00	0.0	0.0	0.1
	Norton S. – P.C. Area	41,766	40,351	43,218	0.00	0.7	0.5	0.9
	Kotzebue Area	0	0	6,379	0.78	0.0	0.0	0.1
Total		2,036,930						

Note: Harvest is the number of chum salmon reported to have been harvested in the fishery.

Note: Harvest rate is the fishery harvest divided by the total run within the WASSIP area for a given reporting group, expressed as a percent.

^a Adjusted median. Adjustment values vary by fishery (see Tables 116–148) for values.

Table 161.—Upper Yukon reporting group, 2007, all strata. Reporting group-specific harvest and harvest rate estimates by fishery. Medians, 90% credibility intervals, and the probability that reporting group harvest estimate is equal to zero ($P = 0$) are reported.

Region	Fishery	Harvest				Harvest Rate (%)		
		Median ^a	90% CI		$P = 0$	Median	90% CI	
			5%	95%			5%	95%
Westward	Chignik Area	246	85	527	0.00	0.0	0.0	0.0
	SEDM	0	0	0	1.00	0.0	0.0	0.0
	S. AK Pen June	3,720	2,653	4,958	0.00	0.3	0.2	0.5
	S. AK Pen post-June	355	5	1,087	0.04	0.0	0.0	0.1
	Northern District	0	0	4	0.91	0.0	0.0	0.0
Central	Bristol Bay Area	3	0	521	0.39	0.0	0.0	0.0
AYK	Kuskokwim Area	0	0	90	0.61	0.0	0.0	0.0
	Yukon Area summer	1,101	776	1,491	0.00	0.1	0.1	0.1
	Yukon Area fall	36,680	34,177	39,325	0.00	3.3	3.0	3.7
	Norton S. – P.C. Area	35	0	178	0.13	0.0	0.0	0.0
	Kotzebue Area	0	0	5	0.93	0.0	0.0	0.0
Total		42,320						

Note: Harvest is the number of chum salmon reported to have been harvested in the fishery.

Note: Harvest rate is the fishery harvest divided by the total run within the WASSIP area for a given reporting group, expressed as a percent.

^a Adjusted median. Adjustment values vary by fishery (see Tables 116–148) for values.

Table 162.—Upper Yukon reporting group, 2008, all strata. Reporting group-specific harvest and harvest rate estimates by fishery. Medians, 90% credibility intervals, and the probability that reporting group harvest estimate is equal to zero ($P = 0$) are reported.

Region	Fishery	Harvest				Harvest Rate (%)		
		Median ^a	90% CI		$P = 0$	Median	90% CI	
			5%	95%			5%	95%
Westward	Chignik Area	4,941	0	6,112	0.13	0.5	0.0	0.7
	SEDM	0	0	1	0.94	0.0	0.0	0.0
	S. AK Pen June	6,861	4,852	9,165	0.00	0.8	0.5	1.0
	S. AK Pen post-June	224	85	515	0.00	0.0	0.0	0.1
	Northern District	0	0	1	0.95	0.0	0.0	0.0
Central	Bristol Bay Area	2	0	323	0.42	0.0	0.0	0.0
AYK	Kuskokwim Area	1	0	53	0.47	0.0	0.0	0.0
	Yukon Area summer	1,386	1,071	1,737	0.00	0.2	0.1	0.2
	Yukon Area fall	56,383	52,822	60,109	0.00	6.3	5.6	7.0
	Norton S. – P.C. Area	8	0	147	0.30	0.0	0.0	0.0
	Kotzebue Area	0	0	1,379	0.81	0.0	0.0	0.2
Total		70,036						

Note: Harvest is the number of chum salmon reported to have been harvested in the fishery.

Note: Harvest rate is the fishery harvest divided by the total run within the WASSIP area for a given reporting group, expressed as a percent.

^a Adjusted median. Adjustment values vary by fishery (see Tables 116–148) for values.

Table 163.—Upper Yukon reporting group, 2009, all strata. Reporting group-specific harvest and harvest rate estimates by fishery. Medians, 90% credibility intervals, and the probability that reporting group harvest estimate is equal to zero ($P = 0$) are reported.

Region	Fishery	Harvest				Harvest Rate (%)		
		Median ^a	90% CI		$P = 0$	Median	90% CI	
			5%	95%			5%	95%
Westward	Chignik Area	0	0	622	0.69	0.0	0.0	0.1
	SEDM	0	0	1	0.95	0.0	0.0	0.0
	S. AK Pen June	1,470	252	3,430	0.00	0.3	0.0	0.6
	S. AK Pen post-June	188	30	854	0.00	0.0	0.0	0.1
	Northern District	0	0	3	0.92	0.0	0.0	0.0
Central	Bristol Bay Area	2	0	329	0.42	0.0	0.0	0.1
AYK	Kuskokwim Area	0	0	88	0.60	0.0	0.0	0.0
	Yukon Area summer	2,161	1,842	2,495	0.00	0.4	0.3	0.4
	Yukon Area fall	8,917	8,211	9,636	0.00	1.6	1.4	1.8
	Norton S. – P.C. Area	123	1	350	0.04	0.0	0.0	0.1
	Kotzebue Area	0	0	1,818	0.74	0.0	0.0	0.3
Total		12,887						

Note: Harvest is the number of chum salmon reported to have been harvested in the fishery.

Note: Harvest rate is the fishery harvest divided by the total run within the WASSIP area for a given reporting group, expressed as a percent.

^a Adjusted median. Adjustment values vary by fishery (see Tables 116–148) for values.

Table 164.—Northern District reporting group, 2007, all strata. Reporting group-specific harvest and harvest rate estimates by fishery. Medians, 90% credibility intervals, and the probability that reporting group harvest estimate is equal to zero ($P = 0$) are reported.

Region	Fishery	Harvest				Harvest Rate (%)		
		Median ^a	90% CI		$P = 0$	Median	90% CI	
			5%	95%			5%	95%
Westward	Chignik Area	0	0	510	0.51	0.0	0.0	0.1
	SEDM	0	0	0	1.00	0.0	0.0	0.0
	S. AK Pen June	718	310	1,874	0.00	0.1	0.0	0.4
	S. AK Pen post-June	2,337	1,261	3,775	0.00	0.3	0.1	1.0
	Northern District	56,704	52,752	60,771	0.00	7.8	2.1	20.9
Central	Bristol Bay Area	65,218	36,926	99,765	0.00	8.8	2.2	25.2
AYK	Kuskokwim Area	0	0	49	0.54	0.0	0.0	0.0
	Yukon Area summer	0	0	6	0.82	0.0	0.0	0.0
	Yukon Area fall	0	0	5	0.91	0.0	0.0	0.0
	Norton S. – P.C. Area	0	0	12	0.73	0.0	0.0	0.0
	Kotzebue Area	0	0	2	0.94	0.0	0.0	0.0
Total		125,515						

Note: Harvest rate is the fishery harvest divided by the total run within the WASSIP area for a given reporting group, expressed as a percent.

^a Adjusted median. Adjustment values vary by fishery (see Tables 116–148) for values.

Table 165.—Northern District reporting group, 2008, all strata. Reporting group-specific harvest and harvest rate estimates by fishery. Medians, 90% credibility intervals, and the probability that reporting group harvest estimate is equal to zero ($P = 0$) are reported.

Region	Fishery	Harvest				Harvest Rate (%)		
		Median ^a	90% CI		$P = 0$	Median	90% CI	
			5%	95%			5%	95%
Westward	Chignik Area	372	170	1,854	0.00	0.0	0.0	0.3
	SEDM	0	0	70	0.89	0.0	0.0	0.0
	S. AK Pen June	5,286	3,065	8,854	0.00	0.6	0.1	2.0
	S. AK Pen post-June	1,781	818	3,578	0.00	0.2	0.0	0.7
	Northern District	8,335	7,749	8,937	0.00	0.9	0.2	2.8
Central	Bristol Bay Area	27,721	15,118	40,327	0.00	2.8	0.7	9.6
AYK	Kuskokwim Area	1	0	36	0.48	0.0	0.0	0.0
	Yukon Area summer	0	0	3	0.89	0.0	0.0	0.0
	Yukon Area fall	0	0	350	0.61	0.0	0.0	0.0
	Norton S. – P.C. Area	0	0	13	0.70	0.0	0.0	0.0
	Kotzebue Area	0	0	2	0.94	0.0	0.0	0.0
Total		43,603						

Note: Harvest is the number of chum salmon reported to have been harvested in the fishery.

Note: Harvest rate is the fishery harvest divided by the total run within the WASSIP area for a given reporting group, expressed as a percent.

^a Adjusted median. Adjustment values vary by fishery (see Tables 116–148) for values.

Table 166.—Northern District reporting group, 2009, all strata. Reporting group-specific harvest and harvest rate estimates by fishery. Medians, 90% credibility intervals, and the probability that reporting group harvest estimate is equal to zero ($P = 0$) are reported.

Region	Fishery	Harvest				Harvest Rate (%)		
		Median ^a	90% CI		$P = 0$	Median	90% CI	
			5%	95%			5%	95%
Westward	Chignik Area	850	0	2,918	0.22	0.1	0.0	0.6
	SEDM	0	0	362	0.87	0.0	0.0	0.0
	S. AK Pen June	5,509	3,484	9,149	0.00	0.7	0.2	2.5
	S. AK Pen post-June	7,041	5,286	9,021	0.00	0.9	0.2	3.0
	Northern District	31,369	28,751	33,392	0.00	3.9	1.0	12.9
Central	Bristol Bay Area	18,700	7,660	32,040	0.00	2.2	0.4	8.5
AYK	Kuskokwim Area	0	0	59	0.64	0.0	0.0	0.0
	Yukon Area summer	0	0	5	0.86	0.0	0.0	0.0
	Yukon Area fall	0	0	2	0.91	0.0	0.0	0.0
	Norton S. – P.C. Area	0	0	11	0.71	0.0	0.0	0.0
	Kotzebue Area	0	0	3	0.93	0.0	0.0	0.0
Total		64,053						

Note: Harvest is the number of chum salmon reported to have been harvested in the fishery.

Note: Harvest rate is the fishery harvest divided by the total run within the WASSIP area for a given reporting group, expressed as a percent.

^a Adjusted median. Adjustment values vary by fishery (see Tables 116–148) for values.

Table 167.—Northwestern District reporting group, 2007, all strata. Reporting group-specific harvest and harvest rate estimates by fishery. Medians, 90% credibility intervals, and the probability that reporting group harvest estimate is equal to zero ($P = 0$) are reported.

Region	Fishery	Harvest				Harvest Rate (%)		
		Median ^a	90% CI		$P = 0$	Median	90% CI	
			5%	95%			5%	95%
Westward	Chignik Area	77	0	390	0.17	0.0	0.0	0.0
	SEDM	0	0	0	1.00	0.0	0.0	0.0
	S. AK Pen June	2,462	1,792	3,293	0.00	0.2	0.0	0.6
	S. AK Pen post-June	7,786	5,666	10,419	0.00	0.5	0.1	1.9
	Northern District	772	1	2,067	0.05	0.0	0.0	0.3
Central	Bristol Bay Area	1	0	284	0.45	0.0	0.0	0.0
AYK	Kuskokwim Area	0	0	14	0.75	0.0	0.0	0.0
	Yukon Area summer	0	0	5	0.83	0.0	0.0	0.0
	Yukon Area fall	0	0	5	0.91	0.0	0.0	0.0
	Norton S. – P.C. Area	0	0	8	0.77	0.0	0.0	0.0
	Kotzebue Area	0	0	1	0.94	0.0	0.0	0.0
Total		11,122						

Note: Harvest is the number of chum salmon reported to have been harvested in the fishery.

Note: Harvest rate is the fishery harvest divided by the total run within the WASSIP area for a given reporting group, expressed as a percent.

^a Adjusted median. Adjustment values vary by fishery (see Tables 116–148) for values.

Table 168.—Northwestern District reporting group, 2008, all strata. Reporting group-specific harvest and harvest rate estimates by fishery. Medians, 90% credibility intervals, and the probability that reporting group harvest estimate is equal to zero ($P = 0$) are reported.

Region	Fishery	Harvest				Harvest Rate (%)		
		Median ^a	90% CI		$P = 0$	Median	90% CI	
			5%	95%			5%	95%
Westward	Chignik Area	909	317	1,869	0.00	0.1	0.0	0.3
	SEDM	0	0	57	0.90	0.0	0.0	0.0
	S. AK Pen June	13,715	10,928	16,760	0.00	1.0	0.3	3.4
	S. AK Pen post-June	8,135	6,147	10,345	0.00	0.6	0.1	2.0
	Northern District	35	0	161	0.32	0.0	0.0	0.0
Central	Bristol Bay Area	10	0	785	0.33	0.0	0.0	0.1
AYK	Kuskokwim Area	0	0	22	0.51	0.0	0.0	0.0
	Yukon Area summer	0	0	3	0.90	0.0	0.0	0.0
	Yukon Area fall	0	0	14	0.87	0.0	0.0	0.0
	Norton S. – P.C. Area	0	0	10	0.72	0.0	0.0	0.0
	Kotzebue Area	0	0	4	0.93	0.0	0.0	0.0
Total		22,847						

Note: Harvest is the number of chum salmon reported to have been harvested in the fishery.

Note: Harvest rate is the fishery harvest divided by the total run within the WASSIP area for a given reporting group, expressed as a percent.

^a Adjusted median. Adjustment values vary by fishery (see Tables 116–148) for values.

Table 169.–Northwestern District reporting group, 2009, all strata. Reporting group-specific harvest and harvest rate estimates by fishery. Medians, 90% credibility intervals, and the probability that reporting group harvest estimate is equal to zero ($P = 0$) are reported.

Region	Fishery	Harvest				Harvest Rate (%)		
		Median ^a	90% CI		$P = 0$	Median	90% CI	
			5%	95%			5%	95%
Westward	Chignik Area	1,831	609	3,628	0.01	0.4	0.1	1.2
	SEDM	429	0	1,202	0.11	0.1	0.0	0.4
	S. AK Pen June	30,932	25,900	36,532	0.00	6.5	1.8	16.8
	S. AK Pen post-June	9,383	7,498	11,579	0.00	2.0	0.5	5.1
	Northern District	1,000	511	1,639	0.00	0.2	0.0	0.6
Central	Bristol Bay Area	1	0	214	0.45	0.0	0.0	0.0
AYK	Kuskokwim Area	0	0	25	0.69	0.0	0.0	0.0
	Yukon Area summer	0	0	3	0.88	0.0	0.0	0.0
	Yukon Area fall	0	0	1	0.92	0.0	0.0	0.0
	Norton S. – P.C. Area	0	0	8	0.74	0.0	0.0	0.0
	Kotzebue Area	0	0	2	0.94	0.0	0.0	0.0
Total		43,684						

Note: Harvest is the number of chum salmon reported to have been harvested in the fishery.

Note: Harvest rate is the fishery harvest divided by the total run within the WASSIP area for a given reporting group, expressed as a percent.

^a Adjusted median. Adjustment values vary by fishery (see Tables 116–148) for values.

Table 170.—South Peninsula reporting group, 2007, all strata. Reporting group-specific harvest and harvest rate estimates by fishery. Medians, 90% credibility intervals, and the probability that reporting group harvest estimate is equal to zero ($P = 0$) are reported.

Region	Fishery	Harvest				Harvest Rate (%)		
		Median ^a	90% CI		$P = 0$	Median	90% CI	
			5%	95%			5%	95%
Westward	Chignik Area	3,744	2,100	7,253	0.00	0.1	0.0	0.5
	SEDM	40,593	37,387	44,056	0.00	1.3	0.3	4.4
	S. AK Pen June	3,281	1,985	5,236	0.00	0.1	0.0	0.4
	S. AK Pen post-June	201,679	190,254	213,532	0.00	6.3	1.6	21.6
	Northern District	0	0	138	0.82	0.0	0.0	0.0
Central	Bristol Bay Area	1	0	282	0.44	0.0	0.0	0.0
AYK	Kuskokwim Area	0	0	19	0.66	0.0	0.0	0.0
	Yukon Area summer	0	0	5	0.83	0.0	0.0	0.0
	Yukon Area fall	0	0	4	0.91	0.0	0.0	0.0
	Norton S. – P.C. Area	0	0	8	0.77	0.0	0.0	0.0
	Kotzebue Area	0	0	2	0.94	0.0	0.0	0.0
Total		249,726						

Note: Harvest is the number of chum salmon reported to have been harvested in the fishery.

Note: Harvest rate is the fishery harvest divided by the total run within the WASSIP area for a given reporting group, expressed as a percent.

^a Adjusted median. Adjustment values vary by fishery (see Tables 116–148) for values.

Table 171.—South Peninsula reporting group, 2008, all strata. Reporting group-specific harvest and harvest rate estimates by fishery. Medians, 90% credibility intervals, and the probability that reporting group harvest estimate is equal to zero ($P = 0$) are reported.

Region	Fishery	Harvest				Harvest Rate (%)		
		Median ^a	90% CI		$P = 0$	Median	90% CI	
			5%	95%			5%	95%
Westward	Chignik Area	7,876	682	15,044	0.00	0.3	0.0	1.3
	SEDM	56,463	51,856	61,369	0.00	2.5	0.6	7.8
	S. AK Pen June	7,810	5,686	11,503	0.00	0.3	0.1	1.2
	S. AK Pen post-June	176,392	167,129	186,016	0.00	7.7	2.0	24.3
	Northern District	0	0	13	0.89	0.0	0.0	0.0
Central	Bristol Bay Area	20	0	944	0.29	0.0	0.0	0.1
AYK	Kuskokwim Area	0	0	22	0.60	0.0	0.0	0.0
	Yukon Area summer	0	0	3	0.90	0.0	0.0	0.0
	Yukon Area fall	0	0	11	0.87	0.0	0.0	0.0
	Norton S. – P.C. Area	0	0	9	0.74	0.0	0.0	0.0
	Kotzebue Area	0	0	2	0.94	0.0	0.0	0.0
Total		249,098						

Note: Harvest is the number of chum salmon reported to have been harvested in the fishery.

Note: Harvest rate is the fishery harvest divided by the total run within the WASSIP area for a given reporting group, expressed as a percent.

^a Adjusted median. Adjustment values vary by fishery (see Tables 116–148) for values.

Table 172.—South Peninsula reporting group, 2009, all strata. Reporting group-specific harvest and harvest rate estimates by fishery. Medians, 90% credibility intervals, and the probability that reporting group harvest estimate is equal to zero ($P = 0$) are reported.

Region	Fishery	Harvest				Harvest Rate (%)		
		Median ^a	90% CI		$P = 0$	Median	90% CI	
			5%	95%			5%	95%
Westward	Chignik Area	6,750	698	15,237	0.01	0.2	0.0	0.8
	SEDM	117,230	107,159	128,301	0.00	4.3	1.3	9.1
	S. AK Pen June	7,635	3,739	14,033	0.00	0.3	0.1	0.8
	S. AK Pen post-June	723,180	686,773	762,117	0.00	26.8	8.3	56.1
	Northern District	0	0	51	0.86	0.0	0.0	0.0
Central	Bristol Bay Area	1	0	419	0.44	0.0	0.0	0.0
AYK	Kuskokwim Area	0	0	29	0.61	0.0	0.0	0.0
	Yukon Area summer	0	0	5	0.87	0.0	0.0	0.0
	Yukon Area fall	0	0	1	0.92	0.0	0.0	0.0
	Norton S. – P.C. Area	0	0	9	0.74	0.0	0.0	0.0
	Kotzebue Area	0	0	2	0.94	0.0	0.0	0.0
Total		855,749						

Note: Harvest is the number of chum salmon reported to have been harvested in the fishery.

Note: Harvest rate is the fishery harvest divided by the total run within the WASSIP area for a given reporting group, expressed as a percent.

^a Adjusted median. Adjustment values vary by fishery (see Tables 116–148) for values.

Table 173.—Chignik/Kodiak reporting group, 2007, all strata. Reporting group-specific harvest and harvest rate estimates by fishery. Medians, 90% credibility intervals, and the probability that reporting group harvest estimate is equal to zero ($P = 0$) are reported.

Region	Fishery	Harvest				Harvest Rate (%)		
		Median ^a	90% CI		$P = 0$	Median	90% CI	
			5%	95%			5%	95%
Westward	Chignik Area	46,252	42,299	49,478	0.00	1.9	0.5	7.2
	SEDM	0	0	0	1.00	0.0	0.0	0.0
	S. AK Pen June	4,911	3,018	6,666	0.00	0.2	0.0	0.8
	S. AK Pen post-June	49,058	40,836	57,367	0.00	2.0	0.5	7.6
	Northern District	0	0	1,051	0.52	0.0	0.0	0.1
Central	Bristol Bay Area	1	0	318	0.44	0.0	0.0	0.0
AYK	Kuskokwim Area	0	0	24	0.62	0.0	0.0	0.0
	Yukon Area summer	0	0	5	0.83	0.0	0.0	0.0
	Yukon Area fall	0	0	4	0.91	0.0	0.0	0.0
	Norton S. – P.C. Area	0	0	8	0.77	0.0	0.0	0.0
	Kotzebue Area	0	0	2	0.94	0.0	0.0	0.0
Total		100,645						

Note: Harvest is the number of chum salmon reported to have been harvested in the fishery.

Note: Harvest rate is the fishery harvest divided by the total run within the WASSIP area for a given reporting group, expressed as a percent.

^a Adjusted median. Adjustment values vary by fishery (see Tables 116–148) for values.

Table 174.–Chignik/Kodiak reporting group, 2008, all strata. Reporting group-specific harvest and harvest rate estimates by fishery. Medians, 90% credibility intervals, and the probability that reporting group harvest estimate is equal to zero ($P = 0$) are reported.

Region	Fishery	Harvest				Harvest Rate (%)		
		Median ^a	90% CI		$P = 0$	Median	90% CI	
			5%	95%			5%	95%
Westward	Chignik Area	168,232	158,671	178,023	0.00	8.6	2.2	26.6
	SEDM	14,363	11,380	17,451	0.00	0.7	0.2	2.3
	S. AK Pen June	13,242	9,385	16,858	0.00	0.7	0.2	2.1
	S. AK Pen post-June	37,133	30,342	44,182	0.00	1.9	0.5	5.9
	Northern District	0	0	124	0.57	0.0	0.0	0.0
Central	Bristol Bay Area	90	0	1,353	0.22	0.0	0.0	0.1
AYK	Kuskokwim Area	0	0	26	0.55	0.0	0.0	0.0
	Yukon Area summer	0	0	4	0.88	0.0	0.0	0.0
	Yukon Area fall	0	0	345	0.69	0.0	0.0	0.0
	Norton S. – P.C. Area	0	0	11	0.72	0.0	0.0	0.0
	Kotzebue Area	0	0	2	0.94	0.0	0.0	0.0
Total		233,239						

Note: Harvest is the number of chum salmon reported to have been harvested in the fishery.

Note: Harvest rate is the fishery harvest divided by the total run within the WASSIP area for a given reporting group, expressed as a percent.

^a Adjusted median. Adjustment values vary by fishery (see Tables 116–148) for values.

Table 175.—Chignik/Kodiak reporting group, 2009, all strata. Reporting group-specific harvest and harvest rate estimates by fishery. Medians, 90% credibility intervals, and the probability that reporting group harvest estimate is equal to zero ($P = 0$) are reported.

Region	Fishery	Harvest				Harvest Rate (%)		
		Median ^a	90% CI		$P = 0$	Median	90% CI	
			5%	95%			5%	95%
Westward	Chignik Area	179,272	168,436	189,590	0.00	6.9	1.7	22.1
	SEDM	30,168	22,665	36,605	0.00	1.1	0.3	3.7
	S. AK Pen June	16,128	10,216	21,734	0.00	0.6	0.1	2.1
	S. AK Pen post-June	40,785	32,181	49,819	0.00	1.6	0.4	5.1
	Northern District	0	0	207	0.70	0.0	0.0	0.0
Central	Bristol Bay Area	1	0	306	0.44	0.0	0.0	0.0
AYK	Kuskokwim Area	0	0	29	0.61	0.0	0.0	0.0
	Yukon Area summer	0	0	7	0.85	0.0	0.0	0.0
	Yukon Area fall	0	0	1	0.92	0.0	0.0	0.0
	Norton S. – P.C. Area	0	0	10	0.73	0.0	0.0	0.0
	Kotzebue Area	0	0	2	0.94	0.0	0.0	0.0
Total		267,532						

Note: Harvest is the number of chum salmon reported to have been harvested in the fishery.

Note: Harvest rate is the fishery harvest divided by the total run within the WASSIP area for a given reporting group, expressed as a percent.

^a Adjusted median. Adjustment values vary by fishery (see Tables 116–148) for values.

Table 176.—East of Kodiak reporting group, 2007, all strata. Reporting group-specific harvest and harvest rate estimates by fishery. Medians, 90% credibility intervals, and the probability that reporting group harvest estimate is equal to zero ($P = 0$) are reported.

Region	Fishery	Harvest				Harvest Rate (%)		
		Median ^a	90% CI		$P = 0$	Median	90% CI	
			5%	95%			5%	95%
Westward	Chignik Area	14,687	13,176	16,352	0.00	—	—	—
	SEDM	0	0	0	1.00	—	—	—
	S. AK Pen June	42,152	39,255	45,182	0.00	—	—	—
	S. AK Pen post-June	18,136	15,692	20,845	0.00	—	—	—
	Northern District	2,266	1,508	3,197	0.00	—	—	—
Central	Bristol Bay Area	269	44	914	0.00	—	—	—
AYK	Kuskokwim Area	4	0	28	0.27	—	—	—
	Yukon Area summer	0	0	5	0.82	—	—	—
	Yukon Area fall	0	0	4	0.91	—	—	—
	Norton S. – P.C. Area	0	0	9	0.74	—	—	—
	Kotzebue Area	0	0	1	0.94	—	—	—
Total		77,732						

Note: Harvest is the number of chum salmon reported to have been harvested in the fishery.

Note: Harvest rate is the fishery harvest divided by the total run within the WASSIP area for a given reporting group, expressed as a percent. Total run for East of Kodiak was not estimated for WASSIP; therefore, no harvest rate estimates are provided.

^a Adjusted median. Adjustment values vary by fishery (see Tables 116–148) for values.

Table 177.—East of Kodiak reporting group, 2008, all strata. Reporting group-specific harvest and harvest rate estimates by fishery. Medians, 90% credibility intervals, and the probability that reporting group harvest estimate is equal to zero ($P = 0$) are reported.

Region	Fishery	Harvest				Harvest Rate (%)		
		Median ^a	90% CI		$P = 0$	Median	90% CI	
			5%	95%			5%	95%
Westward	Chignik Area	5,341	2,938	11,024	0.00	—	—	—
	SEDM	510	235	1,145	0.00	—	—	—
	S. AK Pen June	27,574	24,526	30,888	0.00	—	—	—
	S. AK Pen post-June	18,648	16,215	21,312	0.00	—	—	—
	Northern District	270	180	381	0.00	—	—	—
Central	Bristol Bay Area	235	1	1,339	0.05	—	—	—
AYK	Kuskokwim Area	5	0	32	0.25	—	—	—
	Yukon Area summer	0	0	4	0.88	—	—	—
	Yukon Area fall	0	0	8	0.88	—	—	—
	Norton S. – P.C. Area	7	0	32	0.06	—	—	—
	Kotzebue Area	0	0	2	0.94	—	—	—
Total		52,687						

Note: Harvest is the number of chum salmon reported to have been harvested in the fishery.

Note: Harvest rate is the fishery harvest divided by the total run within the WASSIP area for a given reporting group, expressed as a percent. Total run for East of Kodiak was not estimated for WASSIP; therefore, no harvest rate estimates are provided.

^a Adjusted median. Adjustment values vary by fishery (see Tables 116–148) for values.

Table 178.—East of Kodiak reporting group, 2009, all strata. Reporting group-specific harvest and harvest rate estimates by fishery. Medians, 90% credibility intervals, and the probability that reporting group harvest estimate is equal to zero ($P = 0$) are reported.

Region	Fishery	Harvest				Harvest Rate (%)		
		Median ^a	90% CI		$P = 0$	Median	90% CI	
			5%	95%			5%	95%
Westward	Chignik Area	7,605	5,548	10,675	0.00	—	—	—
	SEDM	1,264	705	2,072	0.00	—	—	—
	S. AK Pen June	31,820	27,132	37,113	0.00	—	—	—
	S. AK Pen post-June	5,334	3,933	7,093	0.00	—	—	—
	Northern District	79	17	226	0.00	—	—	—
Central	Bristol Bay Area	52	3	1,825	0.01	—	—	—
AYK	Kuskokwim Area	4	0	35	0.25	—	—	—
	Yukon Area summer	0	0	3	0.88	—	—	—
	Yukon Area fall	0	0	1	0.92	—	—	—
	Norton S. – P.C. Area	0	0	9	0.72	—	—	—
	Kotzebue Area	0	0	2	0.94	—	—	—
Total		46,283						

Note: Harvest is the number of chum salmon reported to have been harvested in the fishery.

Note: Harvest rate is the fishery harvest divided by the total run within the WASSIP area for a given reporting group, expressed as a percent. Total run for East of Kodiak was not estimated for WASSIP; therefore, no harvest rate estimates are provided.

^a Adjusted median. Adjustment values vary by fishery (see Tables 116–148) for values.

FIGURES



Figure 1.—Western Alaska Stock Identification Program (WASSIP) study area including Alaska Department of Fish and Game salmon management areas where sockeye and chum salmon were sampled to estimate stock-specific harvests and harvest rates.

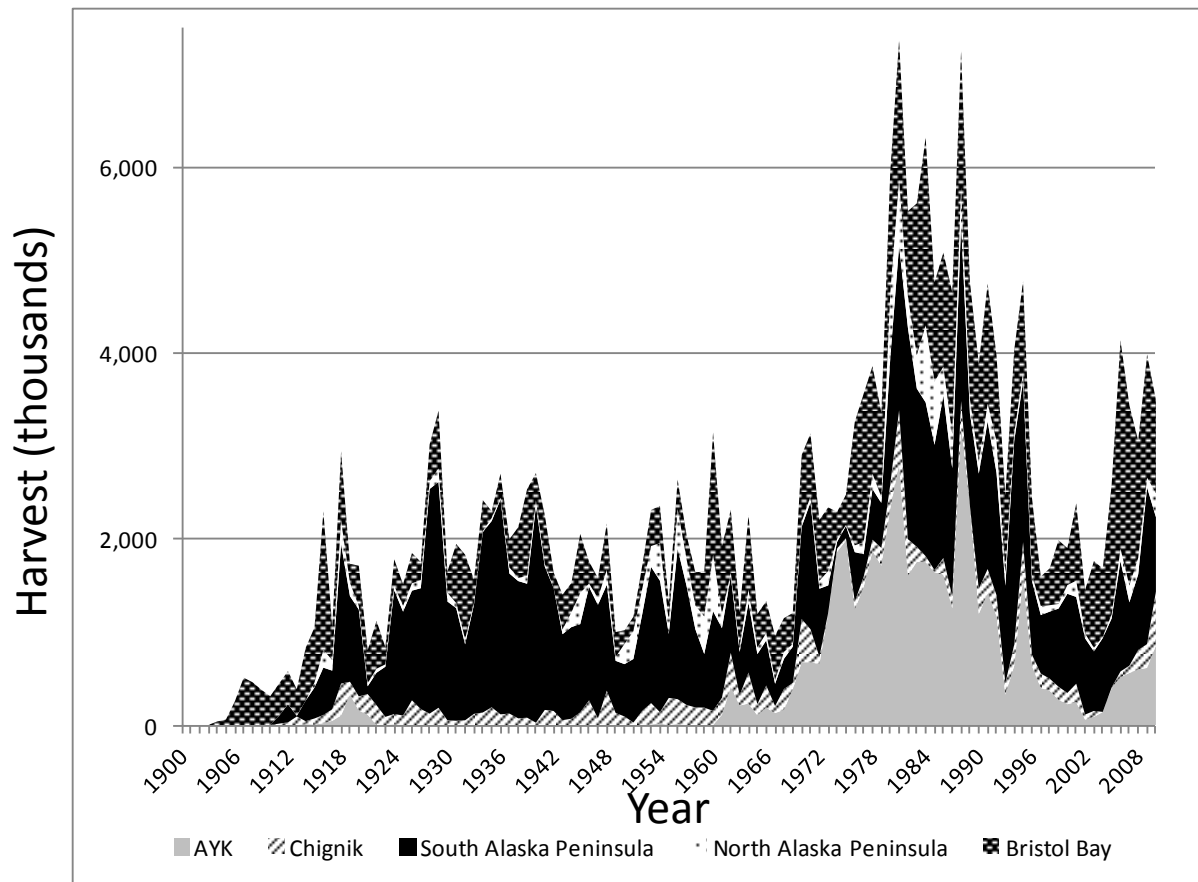


Figure 2.— Historical (1900–2010) harvest (commercial and subsistence; in thousands of fish) of chum salmon in the Arctic-Yukon-Kuskokwim (AYK) area, Chignik, South Alaska Peninsula, North Alaska Peninsula and Bristol Bay areas.

**FIGURES 3-39: HARVEST IN AREA-TEMPORAL STRATA
BY REPORTING GROUP ACROSS YEARS**

***WHAT STOCKS WERE HARVESTED IN A GIVEN FINE-SCALE
FISHERY?***

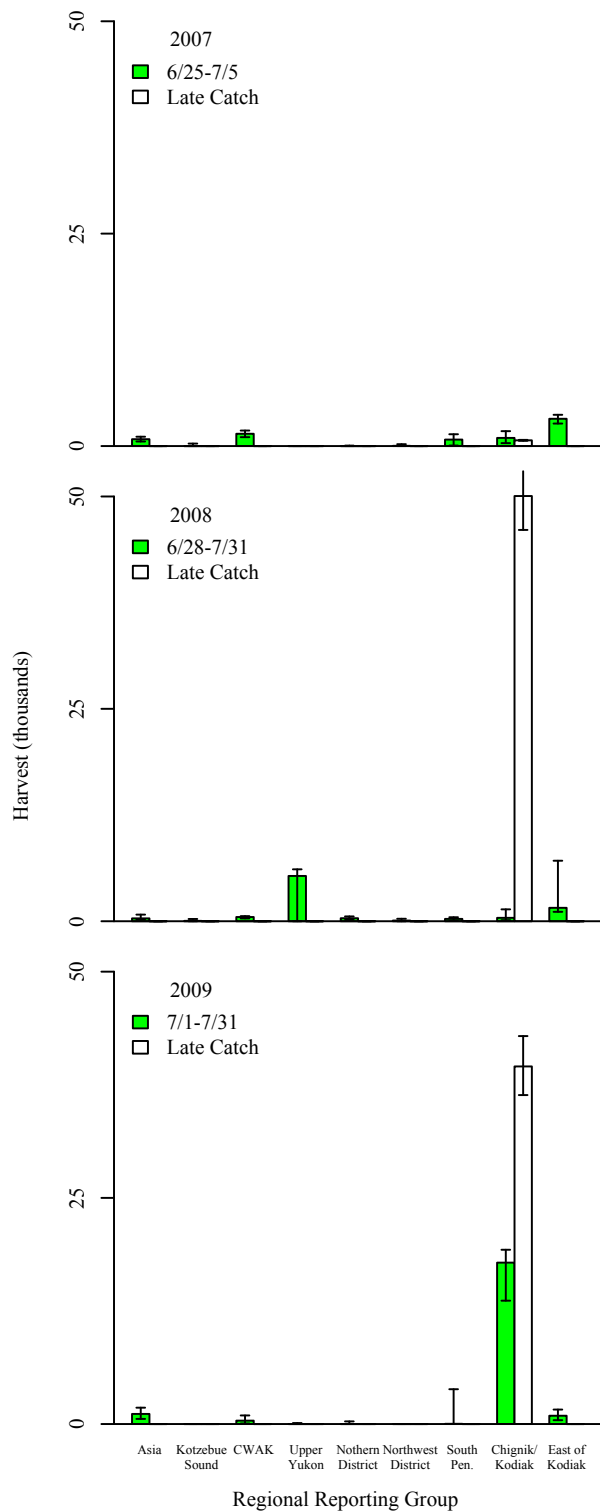


Figure 3.—Median reporting group harvest estimates (bars) and 90% credibility intervals (whiskers) by temporal stratum within years for chum salmon sampled from Eastern District, Commercial, Chignik Area, Westward Region (map) from 2007 to 2009 for the Western Alaska Salmon Stock Identification Program.

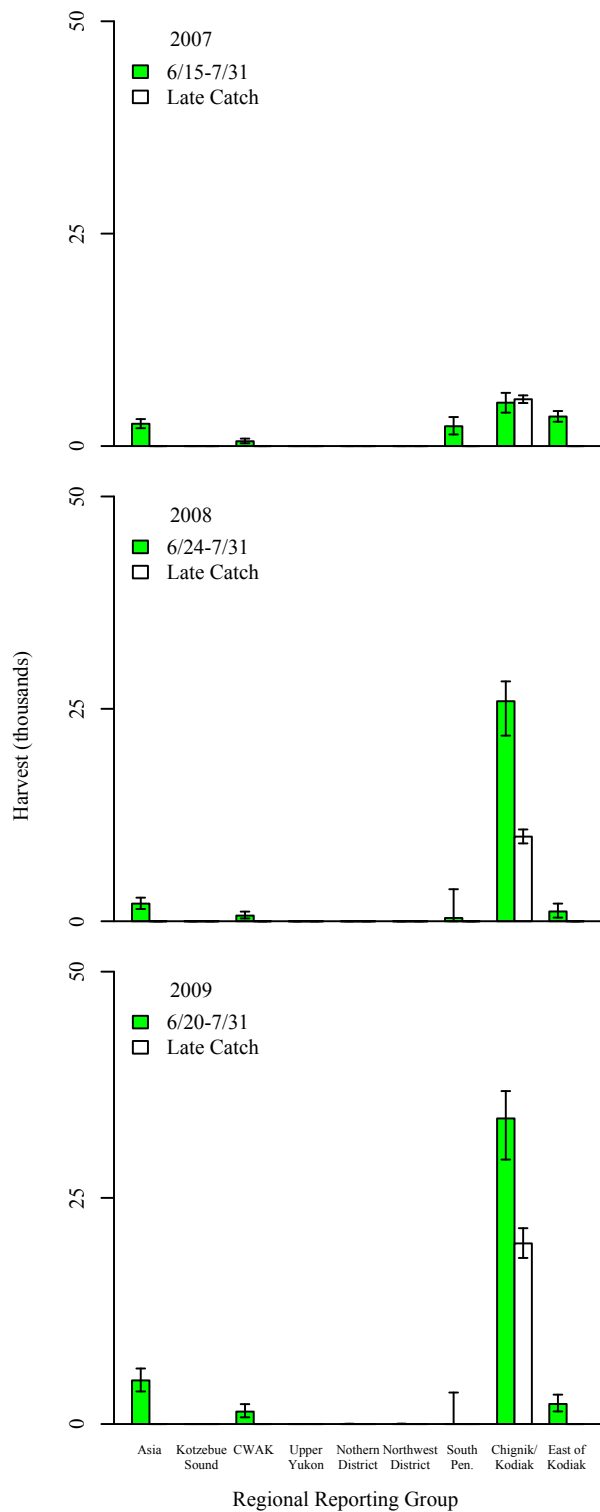


Figure 4.—Median reporting group harvest estimates (bars) and 90% credibility intervals (whiskers) by temporal stratum within years for chum salmon sampled from Central District, Commercial, Chignik Area, Westward Region (map) from 2007 to 2009 for the Western Alaska Salmon Stock Identification Program.

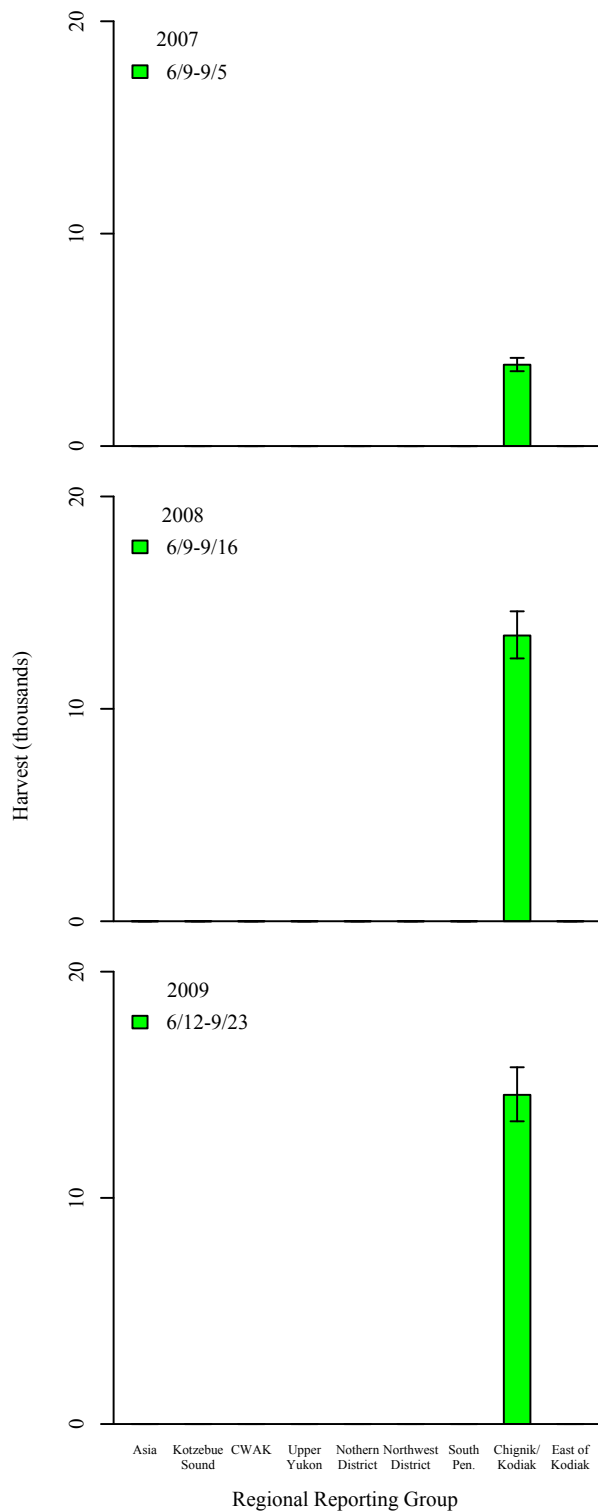


Figure 5.—Median reporting group harvest estimates (bars) and 90% credibility intervals (whiskers) by temporal stratum within years for chum salmon sampled from Chignik Bay District, Commercial, Chignik Area, Westward Region (map) from 2007 to 2009 for the Western Alaska Salmon Stock Identification Program.

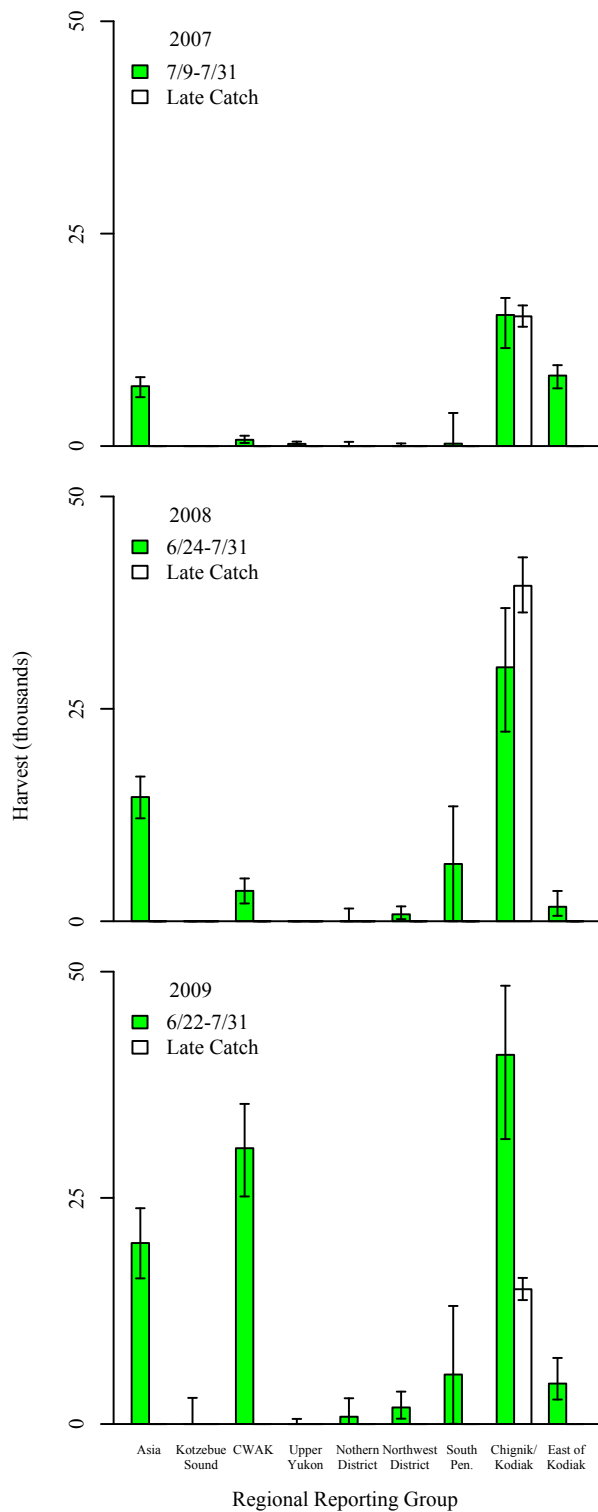


Figure 6.—Median reporting group harvest estimates (bars) and 90% credibility intervals (whiskers) by temporal stratum within years for chum salmon sampled from Western and Perryville districts, Commercial, Chignik Area, Westward Region (map) from 2007 to 2009 for the Western Alaska Salmon Stock Identification Program.

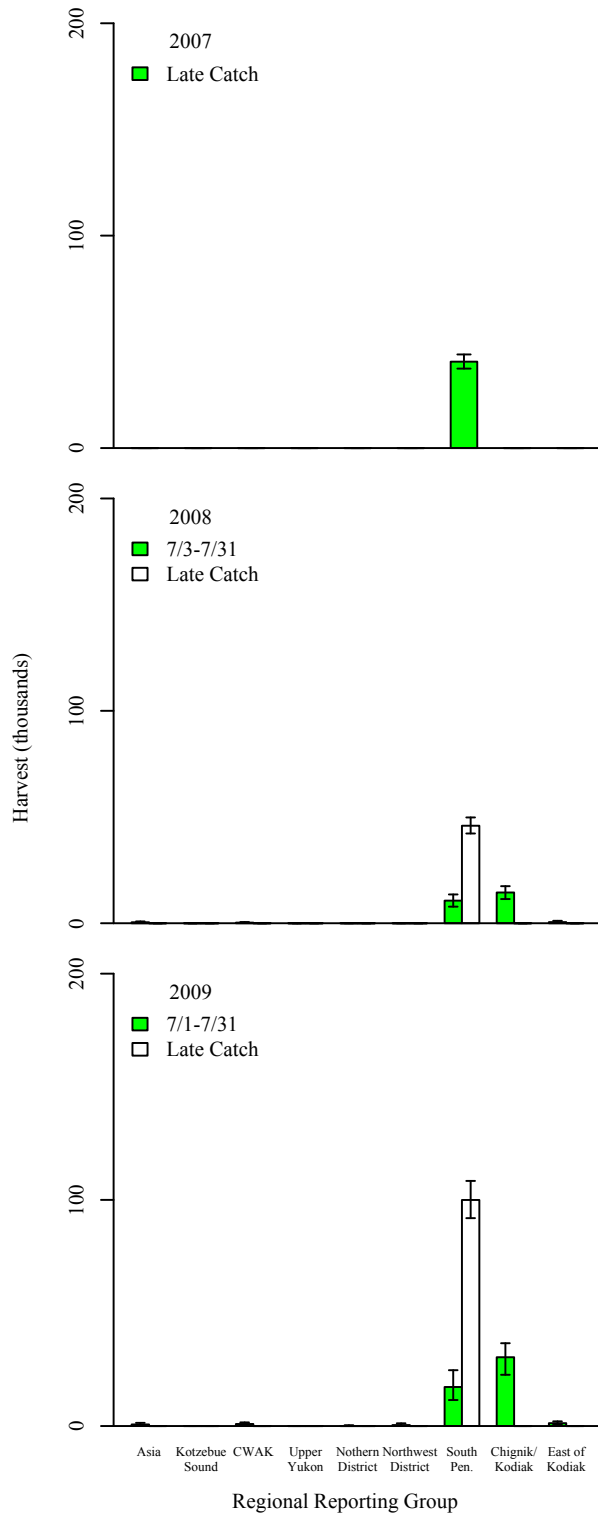


Figure 7.—Median reporting group harvest estimates (bars) and 90% credibility intervals (whiskers) by temporal stratum within years for chum salmon sampled from Southeastern District Mainland (SEDM) area, Commercial, Southeastern District, Alaska Peninsula Area, Westward Region (map) from 2007 to 2009 for the Western Alaska Salmon Stock Identification Program.

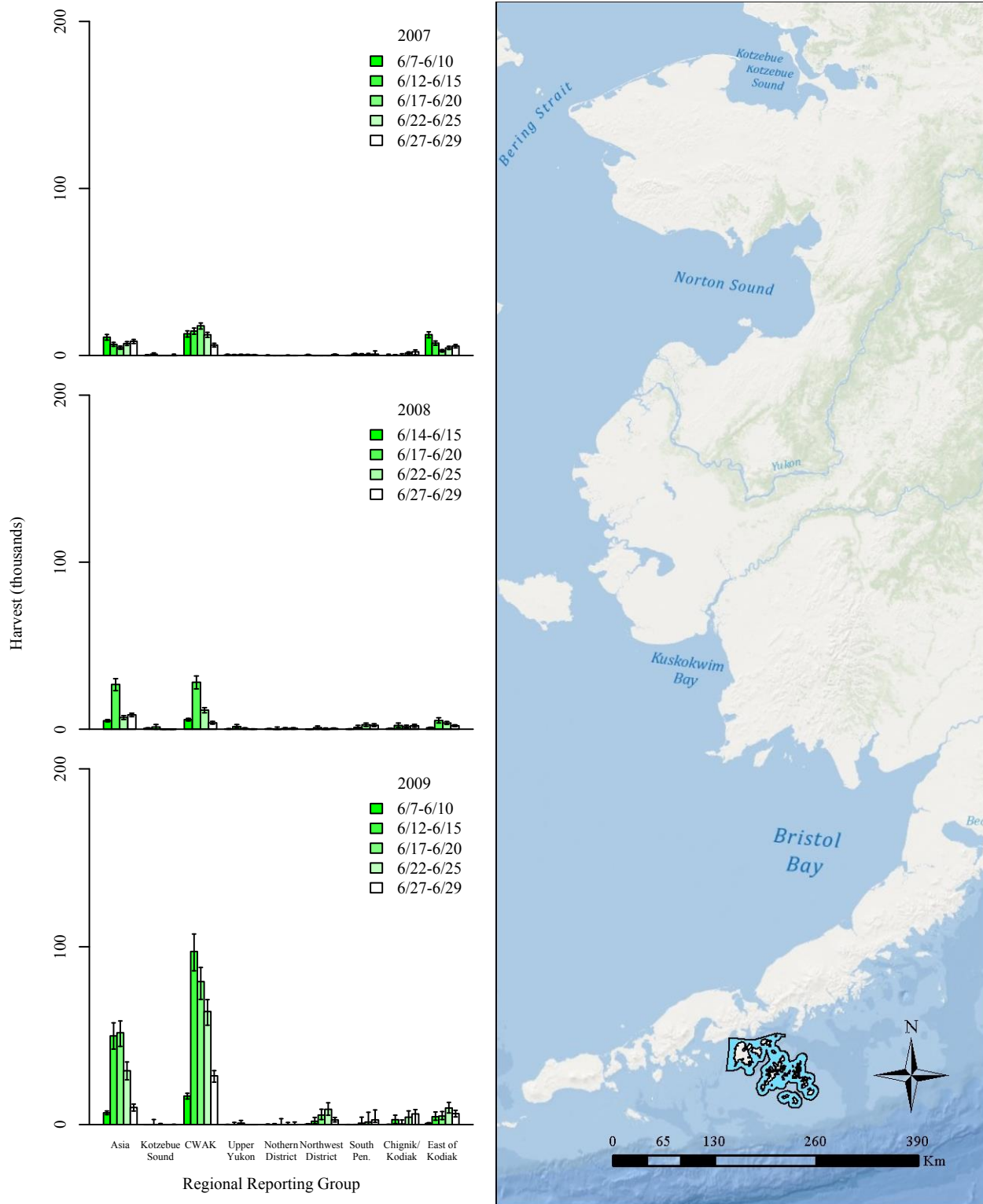


Figure 8.—Median reporting group harvest estimates (bars) and 90% credibility intervals (whiskers) by temporal stratum within years for chum salmon sampled from June, Shumagin Islands Section (statistical areas all 282-XX), Commercial, South Alaska Peninsula, Alaska Peninsula Area, Westward Region (map) from 2007 to 2009 for the Western Alaska Salmon Stock Identification Program.

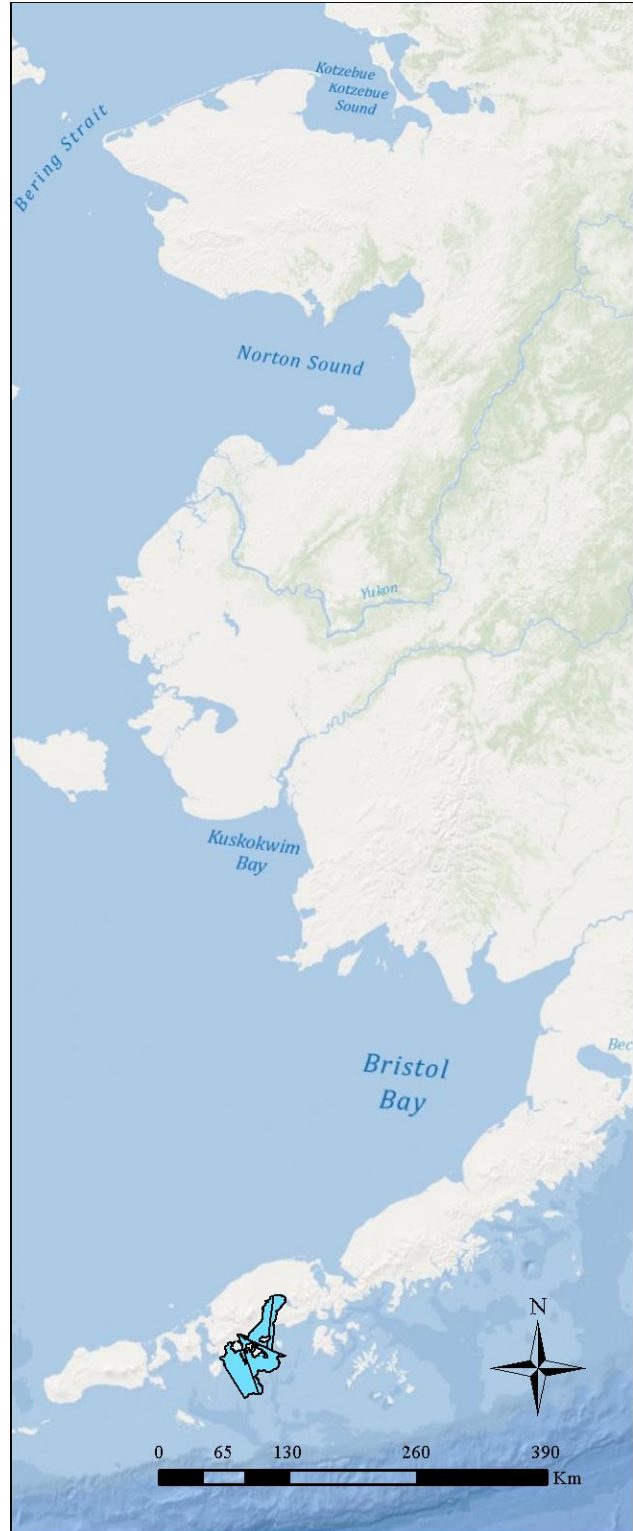
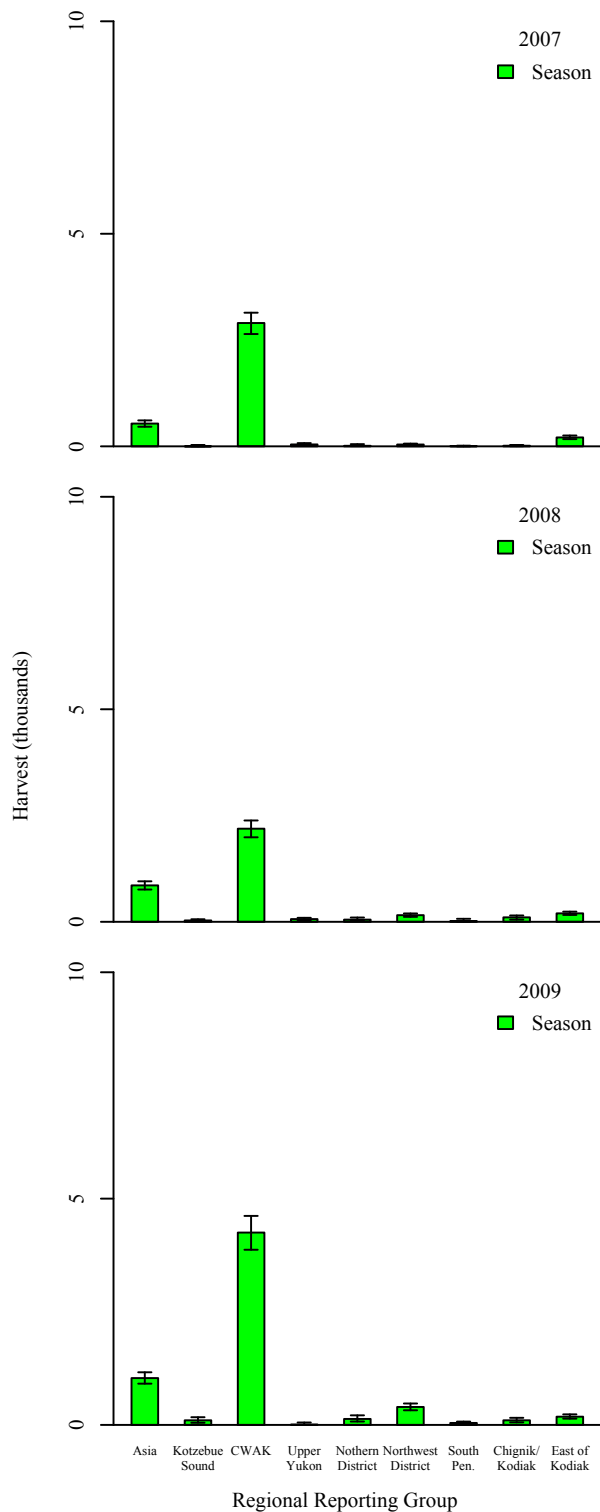


Figure 9.—Median reporting group harvest estimates (bars) and 90% credibility intervals (whiskers) by temporal stratum within years for chum salmon sampled from June, Dolgoi Island area (statistical areas all 283-XX, and 284-00 through 284-42), Commercial, South Alaska Peninsula, Alaska Peninsula Area, Westward Region (map) from 2007 to 2009 for the Western Alaska Salmon Stock Identification Program.

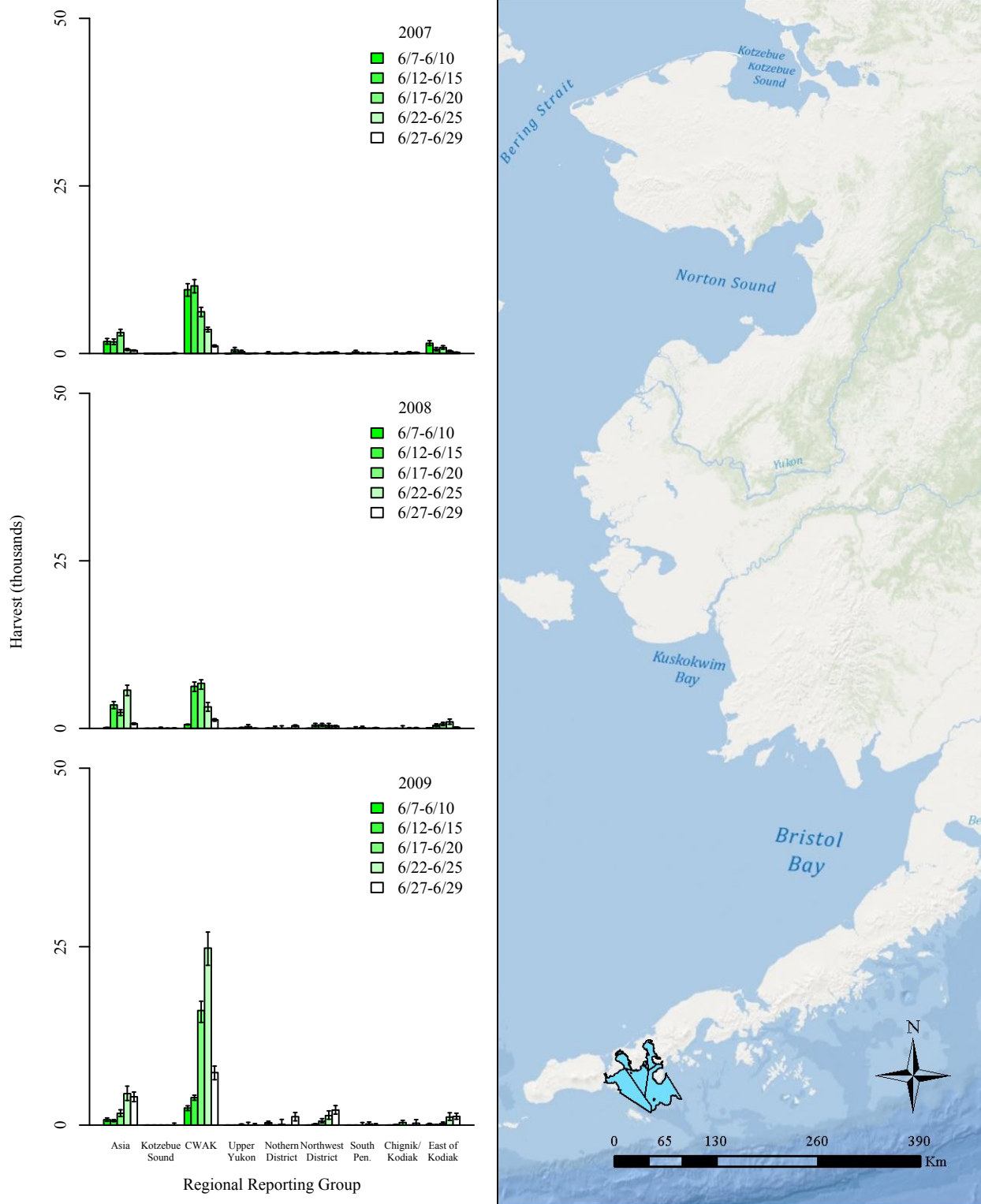


Figure 10.—Median reporting group harvest estimates (bars) and 90% credibility intervals (whiskers) by temporal stratum within years for chum salmon sampled from June, Ikatan area (statistical area 284-45 through 284-99), Commercial, South Alaska Peninsula, Alaska Peninsula Area, Westward Region (map) from 2007 to 2009 for the Western Alaska Salmon Stock Identification Program.

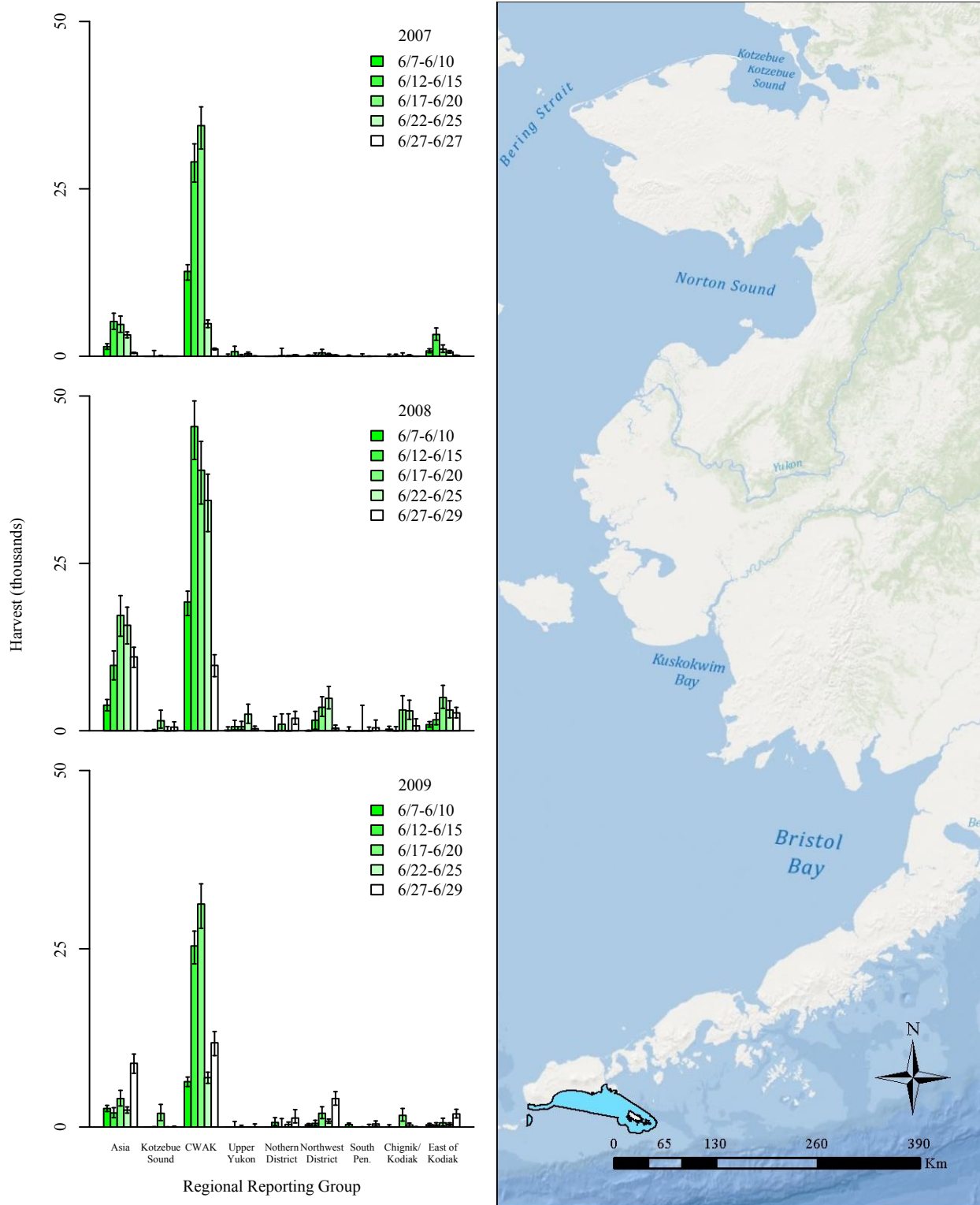


Figure 11.—Median reporting group harvest estimates (bars) and 90% credibility intervals (whiskers) by temporal stratum within years for chum salmon sampled from June, Unimak District, Commercial, South Alaska Peninsula, Alaska Peninsula Area, Westward Region (map) from 2007 to 2009 for the Western Alaska Salmon Stock Identification Program.

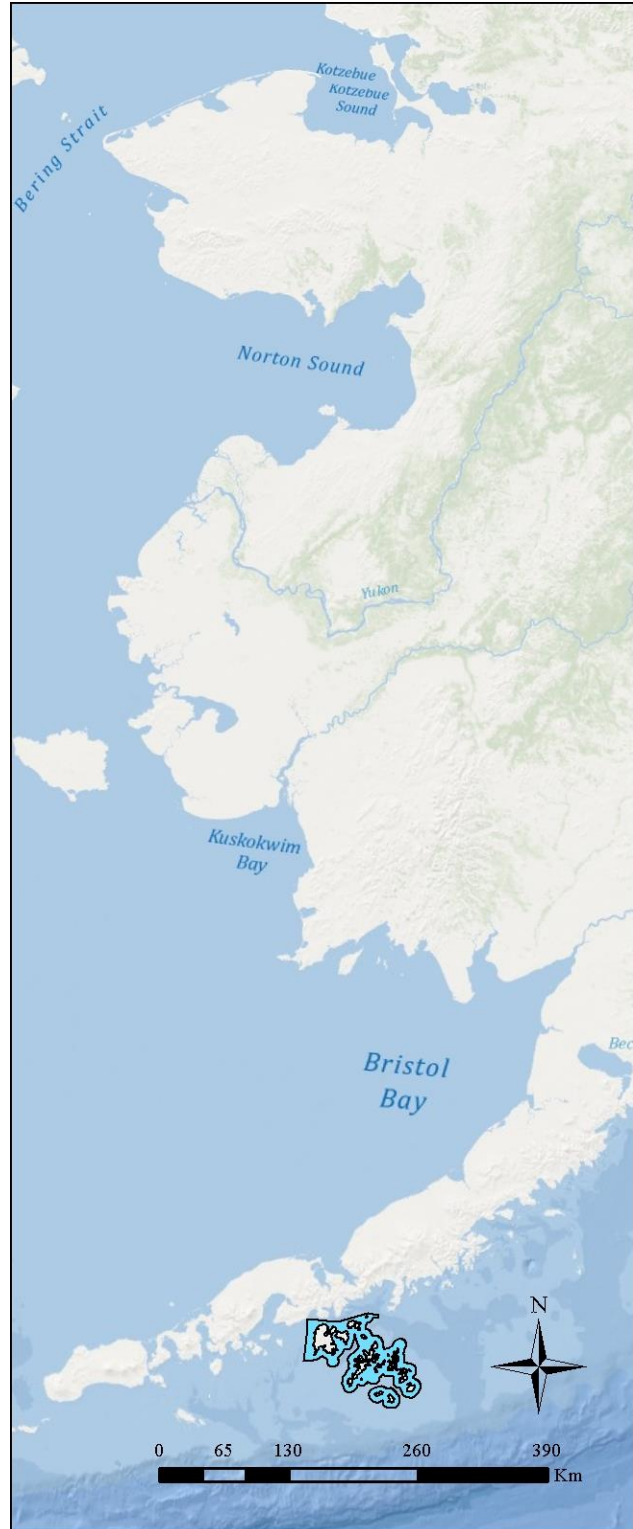
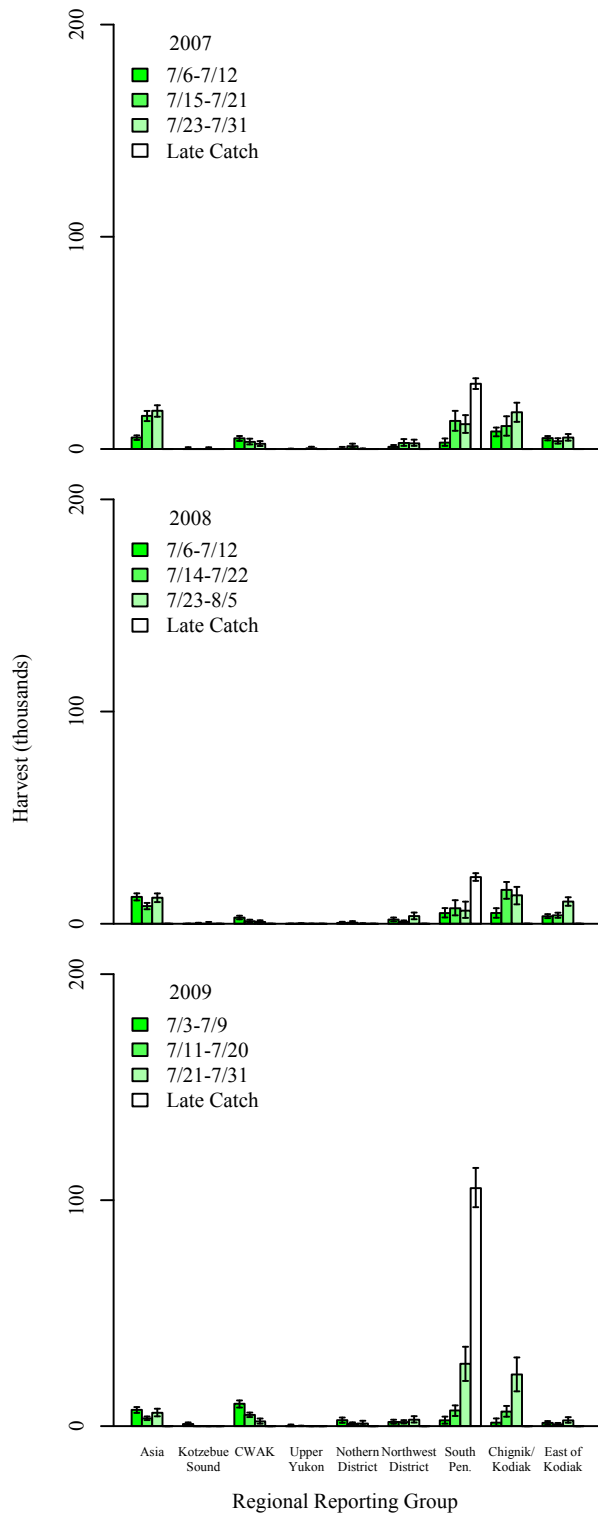


Figure 12.—Median reporting group harvest estimates (bars) and 90% credibility intervals (whiskers) by temporal stratum within years for chum salmon sampled from post-June, Shumagin Islands Section, Commercial, South Alaska Peninsula, Alaska Peninsula Area, Westward Region (map) from 2007 to 2009 for the Western Alaska Salmon Stock Identification Program.

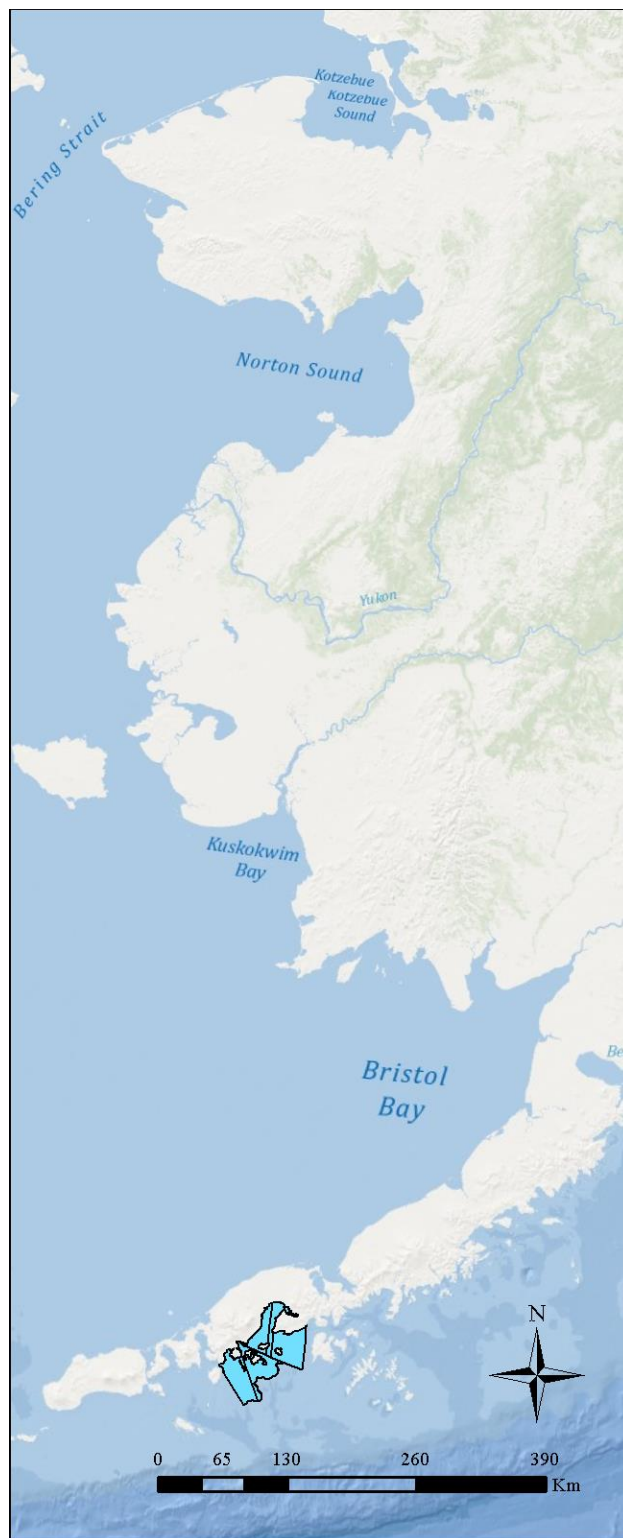
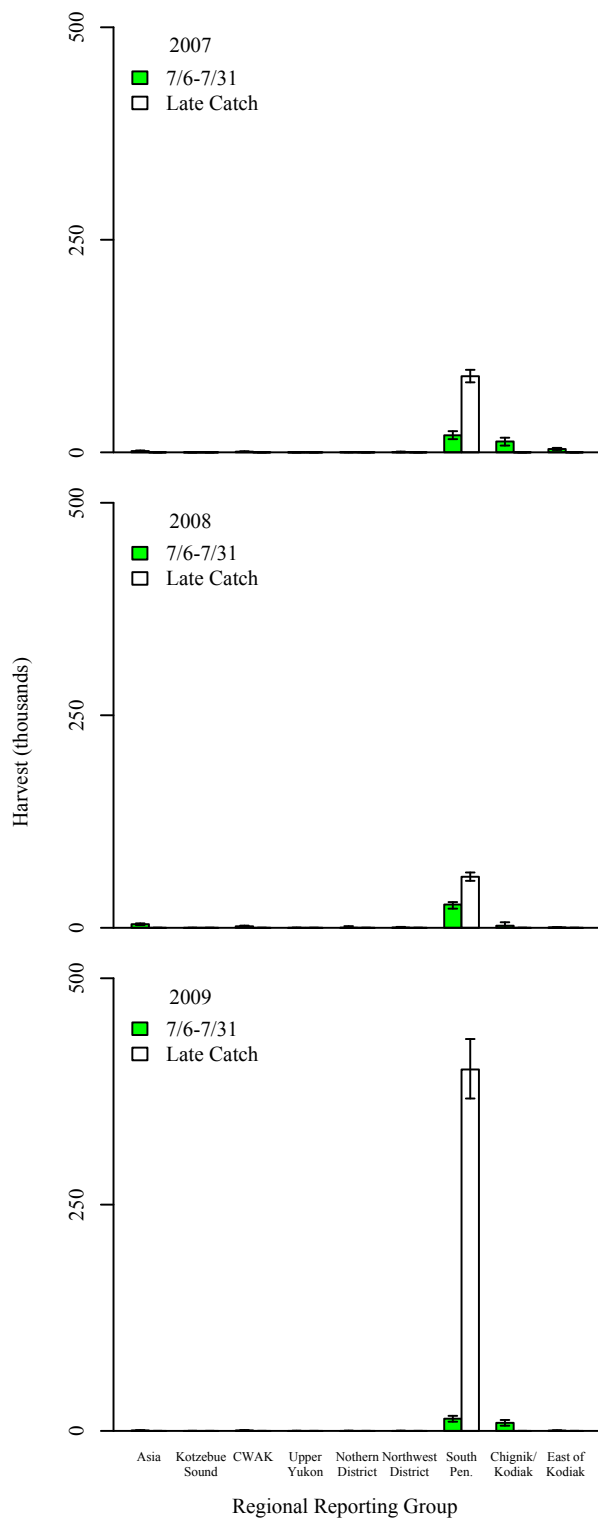


Figure 13.—Median reporting group harvest estimates (bars) and 90% credibility intervals (whiskers) by temporal stratum within years for chum salmon sampled from post-June, Dolgoi Island area (statistical areas all 283-XX, and 284-00 through 284-42), Commercial, South Alaska Peninsula, Alaska Peninsula Area, Westward Region (map) from 2007 to 2009 for the Western Alaska Salmon Stock Identification Program.

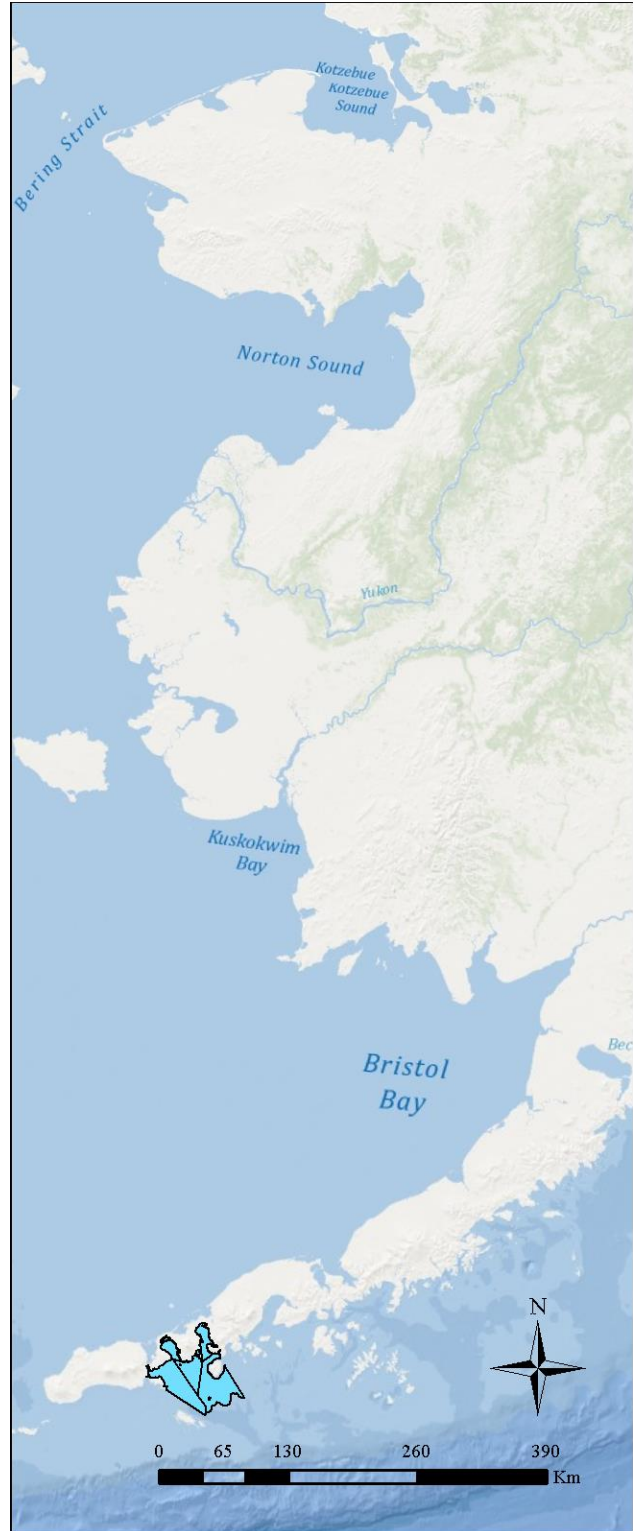
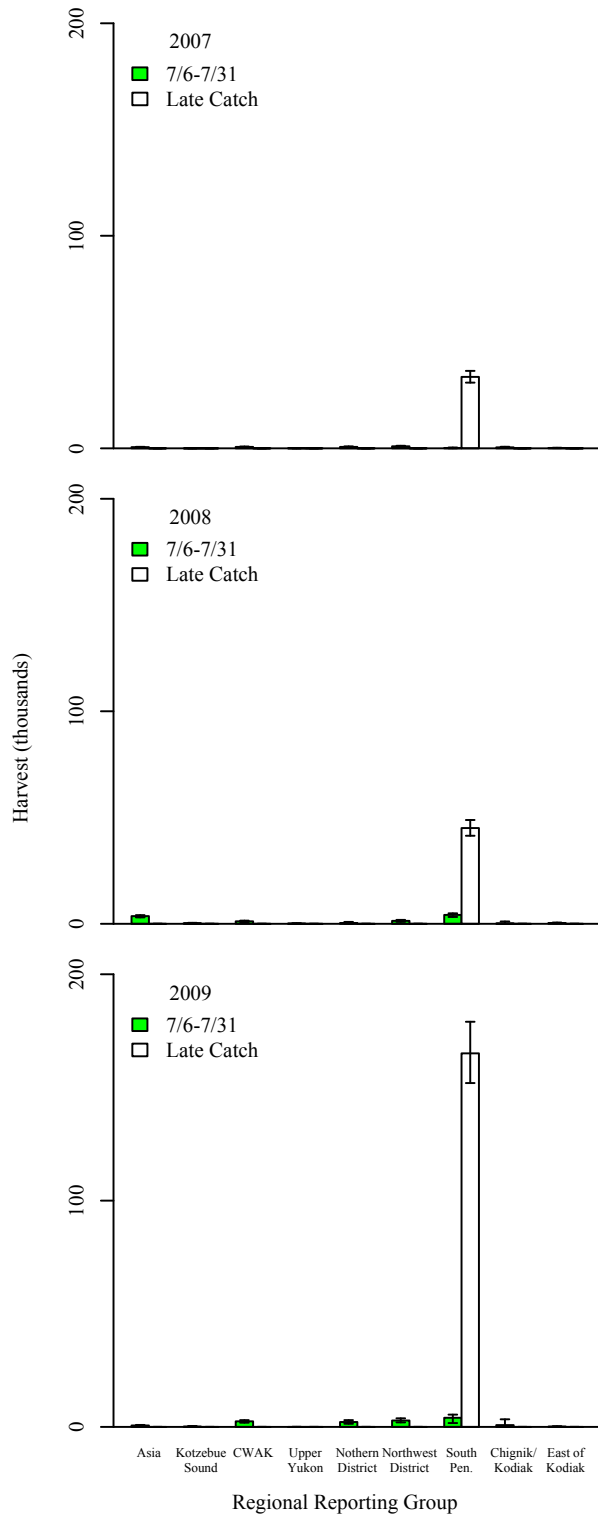


Figure 14.—Median reporting group harvest estimates (bars) and 90% credibility intervals (whiskers) by temporal stratum within years for chum salmon sampled from post-June, Ikatan area (statistical area 284-45 through 284-99), Commercial, South Alaska Peninsula, Alaska Peninsula Area, Westward Region (map) from 2007 to 2009 for the Western Alaska Salmon Stock Identification Program.

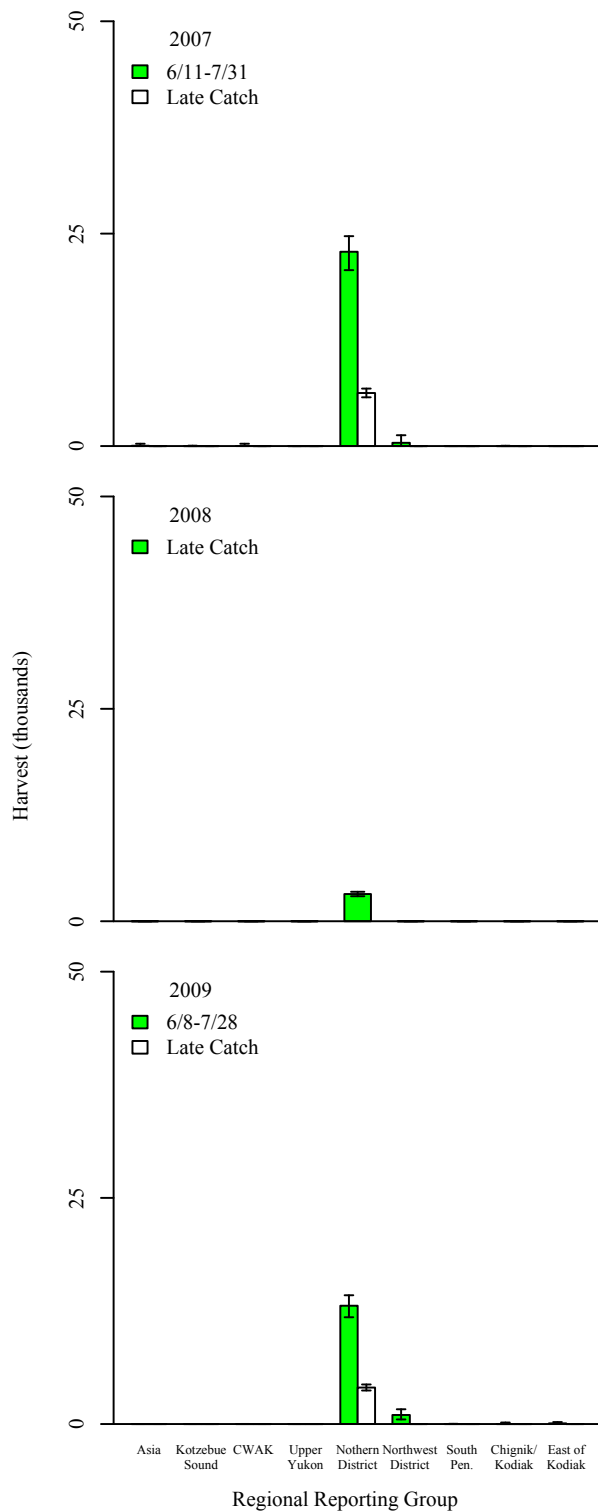


Figure 15.—Median reporting group harvest estimates (bars) and 90% credibility intervals (whiskers) by temporal stratum within years for chum salmon sampled from Bear River Section, Commercial, Northern District, Alaska Peninsula Area, Westward Region (map) from 2007 to 2009 for the Western Alaska Salmon Stock Identification Program.

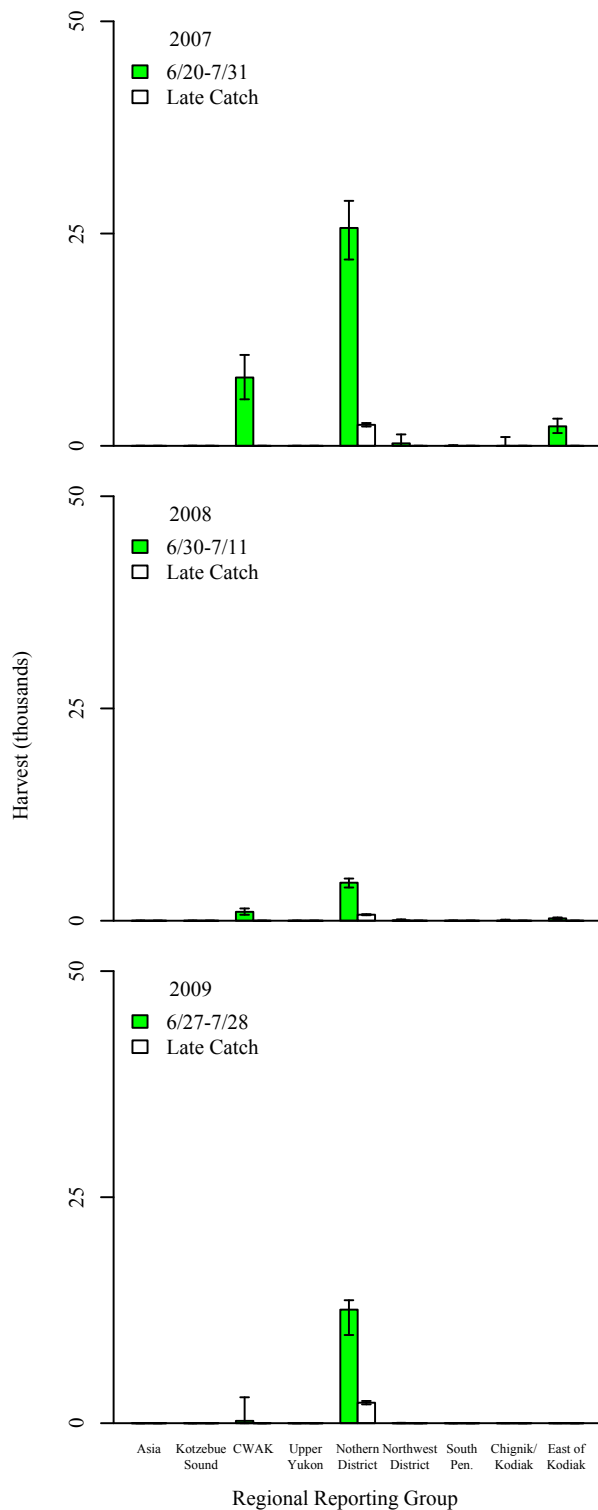


Figure 16.—Median reporting group harvest estimates (bars) and 90% credibility intervals (whiskers) by temporal stratum within years for chum salmon sampled from Three Hills and Ilnik sections, Commercial, Northern District, Alaska Peninsula Area, Westward Region (map) from 2007 to 2009 for the Western Alaska Salmon Stock Identification Program.

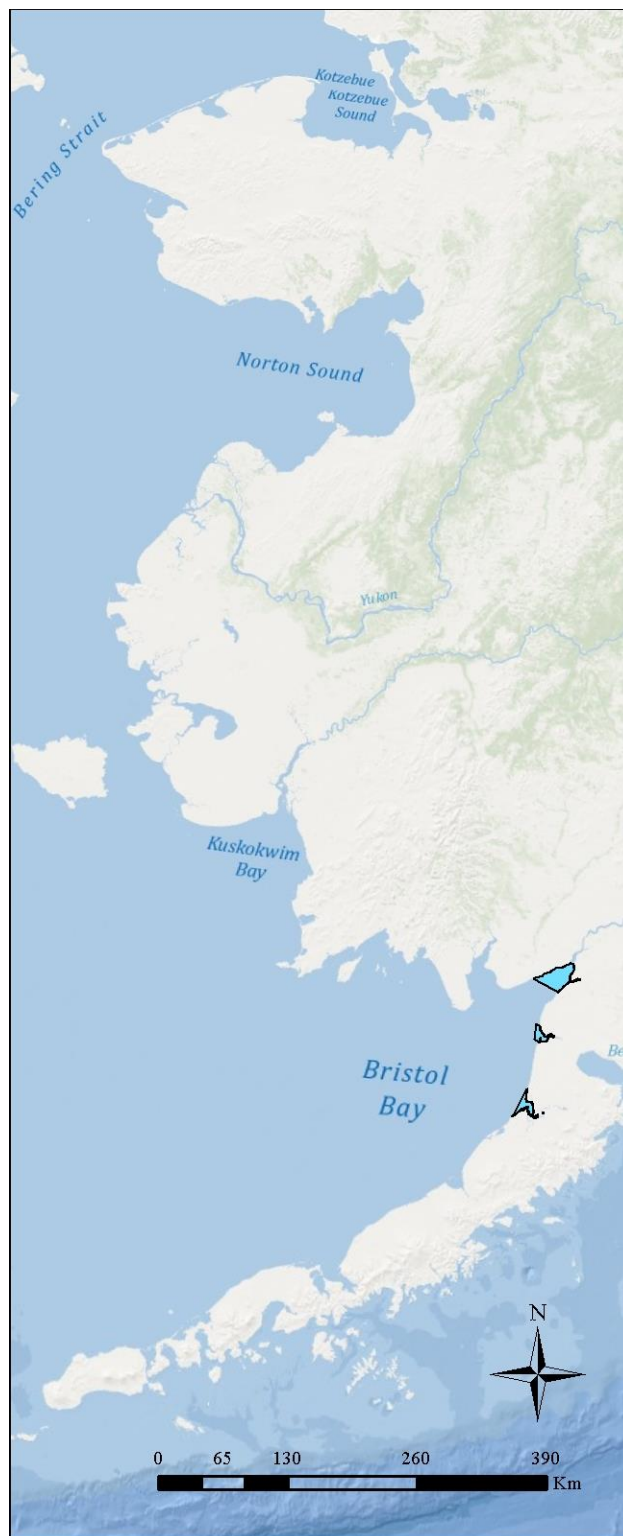
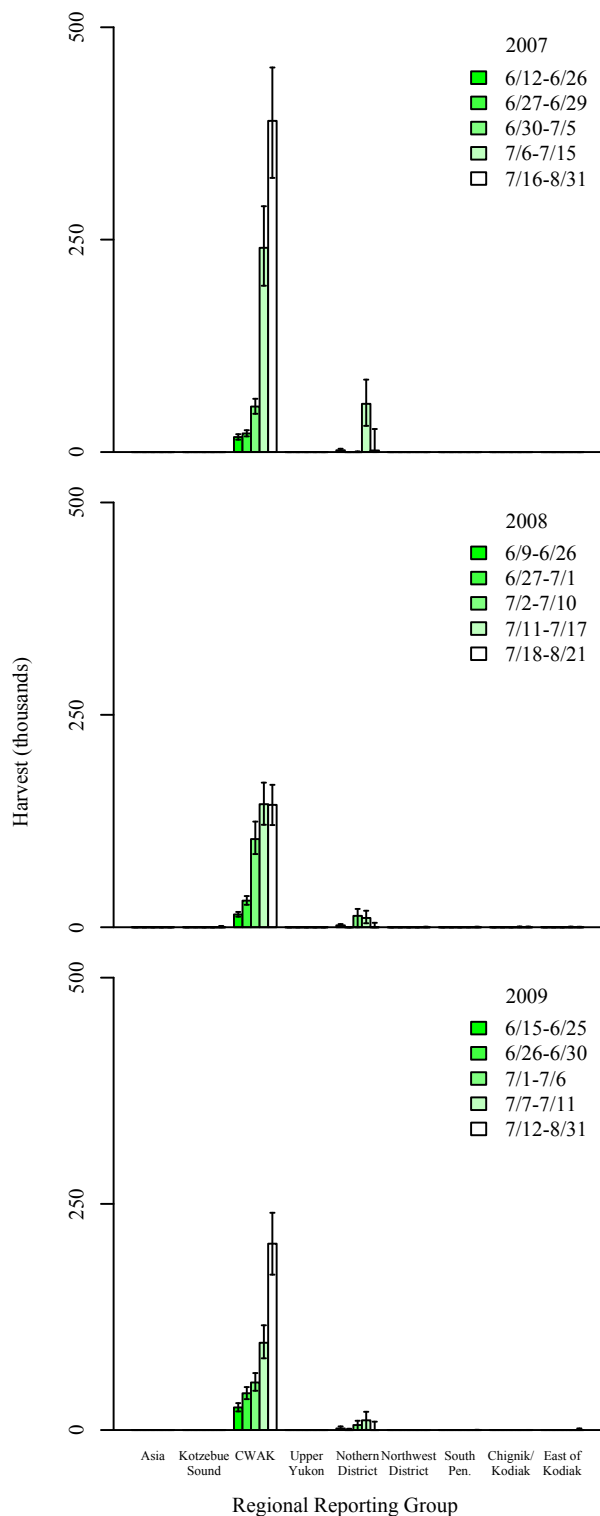


Figure 17.—Median reporting group harvest estimates (bars) and 90% credibility intervals (whiskers) by temporal stratum within years for chum salmon sampled from Eastside districts (Ugashik, Egegik, and Naknek-Kvichak districts), Commercial, Bristol Bay Area, Central Region (map) from 2007 to 2009 for the Western Alaska Salmon Stock Identification Program.

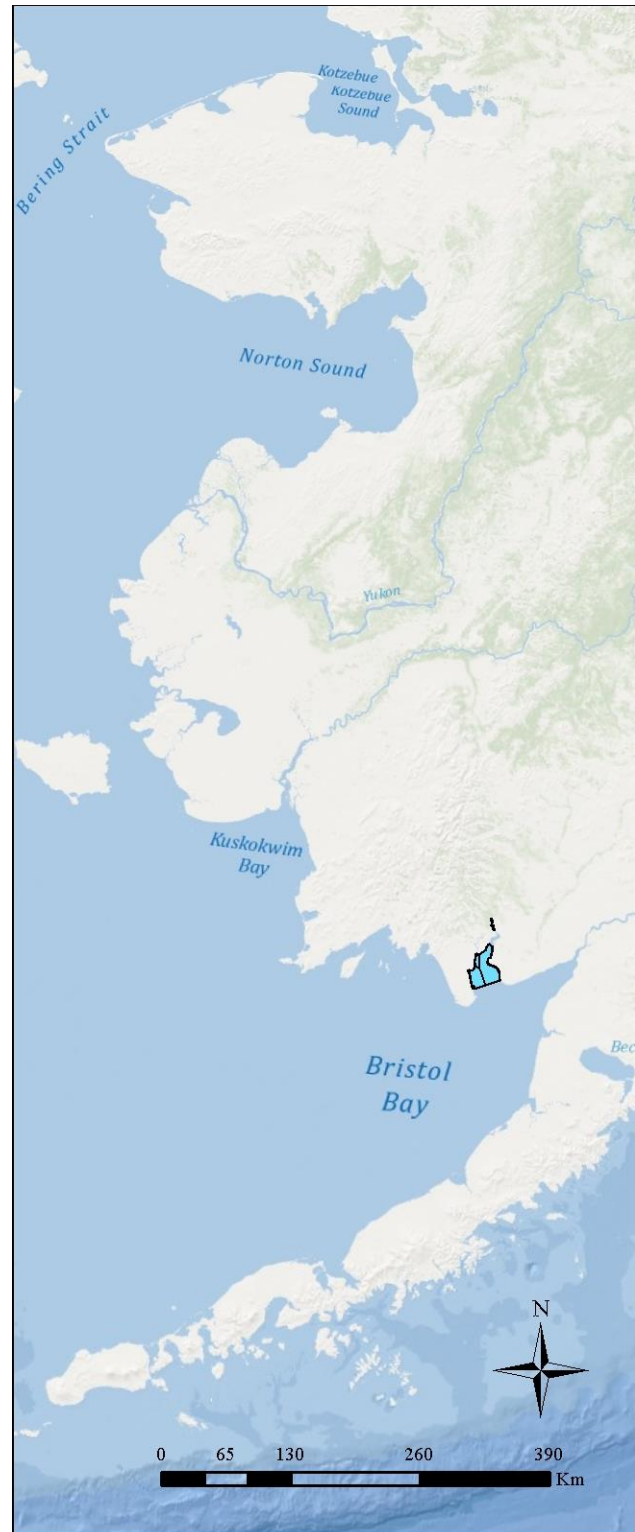
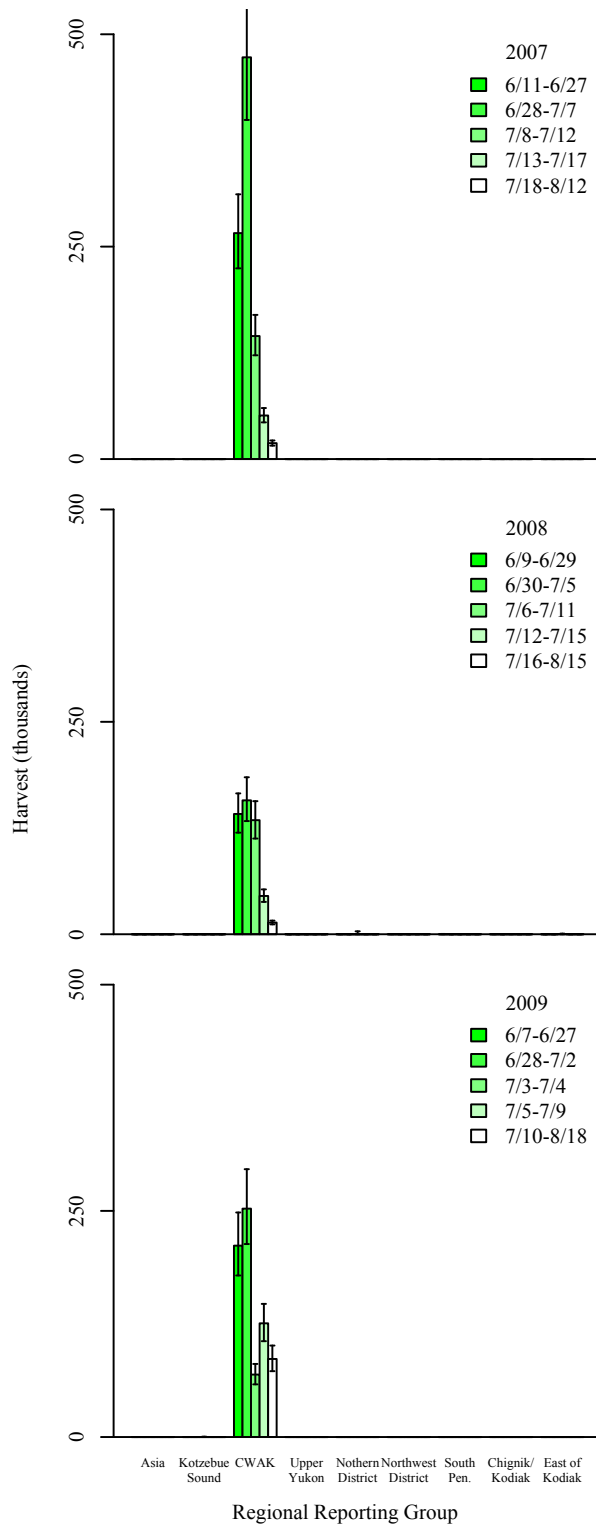


Figure 18.—Median reporting group harvest estimates (bars) and 90% credibility intervals (whiskers) by temporal stratum within years for chum salmon sampled from Nushagak District, Commercial, Bristol Bay Area, Central Region (map) from 2007 to 2009 for the Western Alaska Salmon Stock Identification Program.

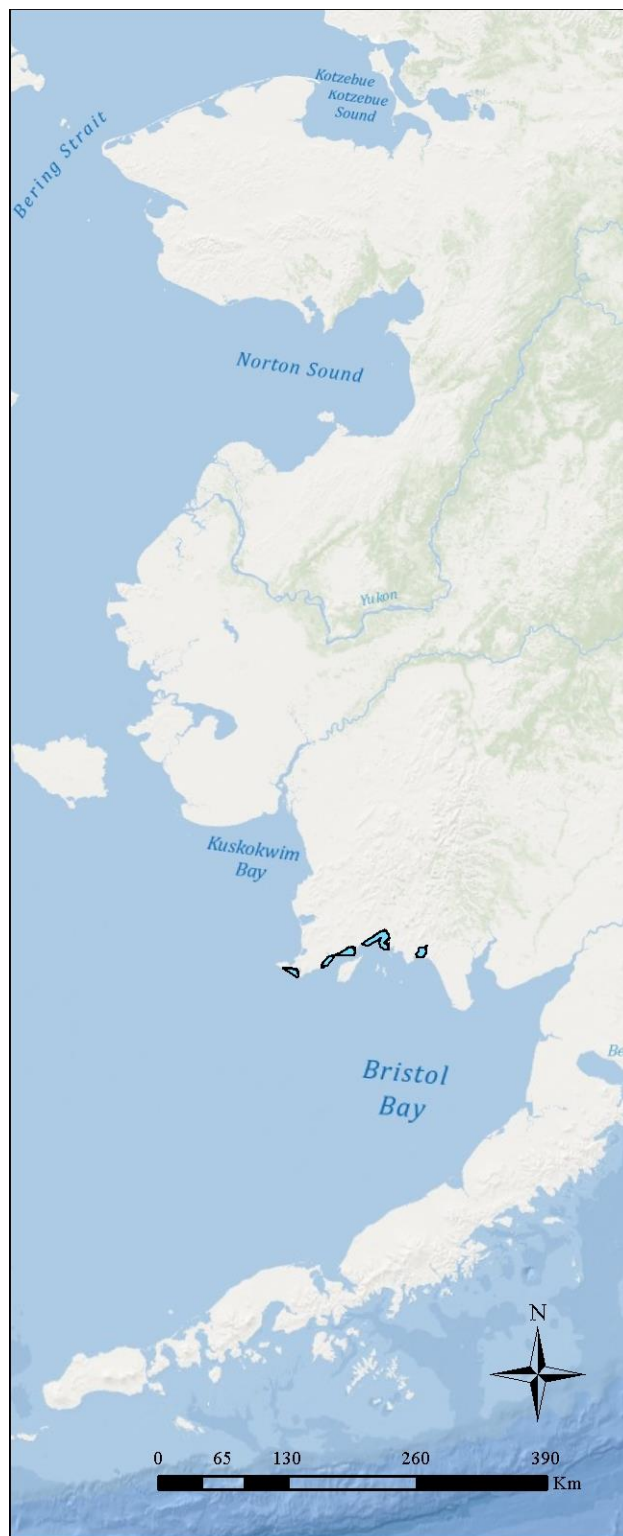
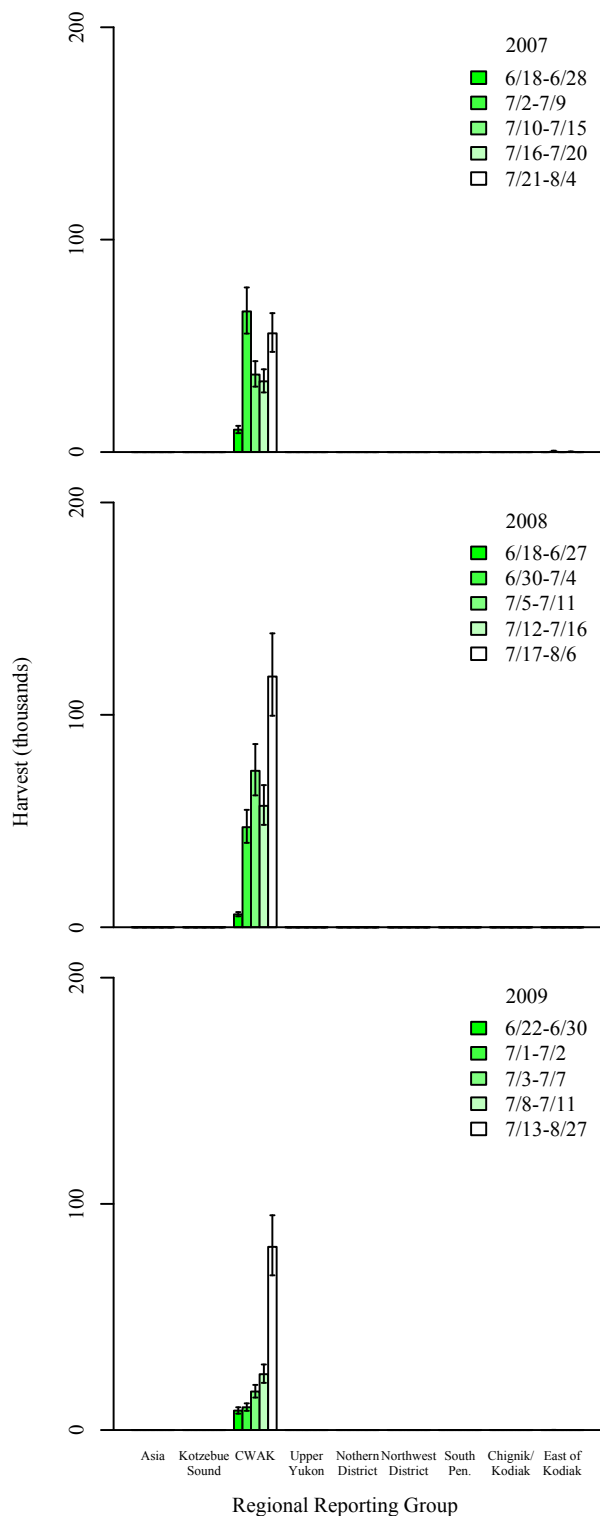


Figure 19.—Median reporting group harvest estimates (bars) and 90% credibility intervals (whiskers) by temporal stratum within years for chum salmon sampled from Togiak District, Commercial, Bristol Bay Area, Central Region (map) from 2007 to 2009 for the Western Alaska Salmon Stock Identification Program.

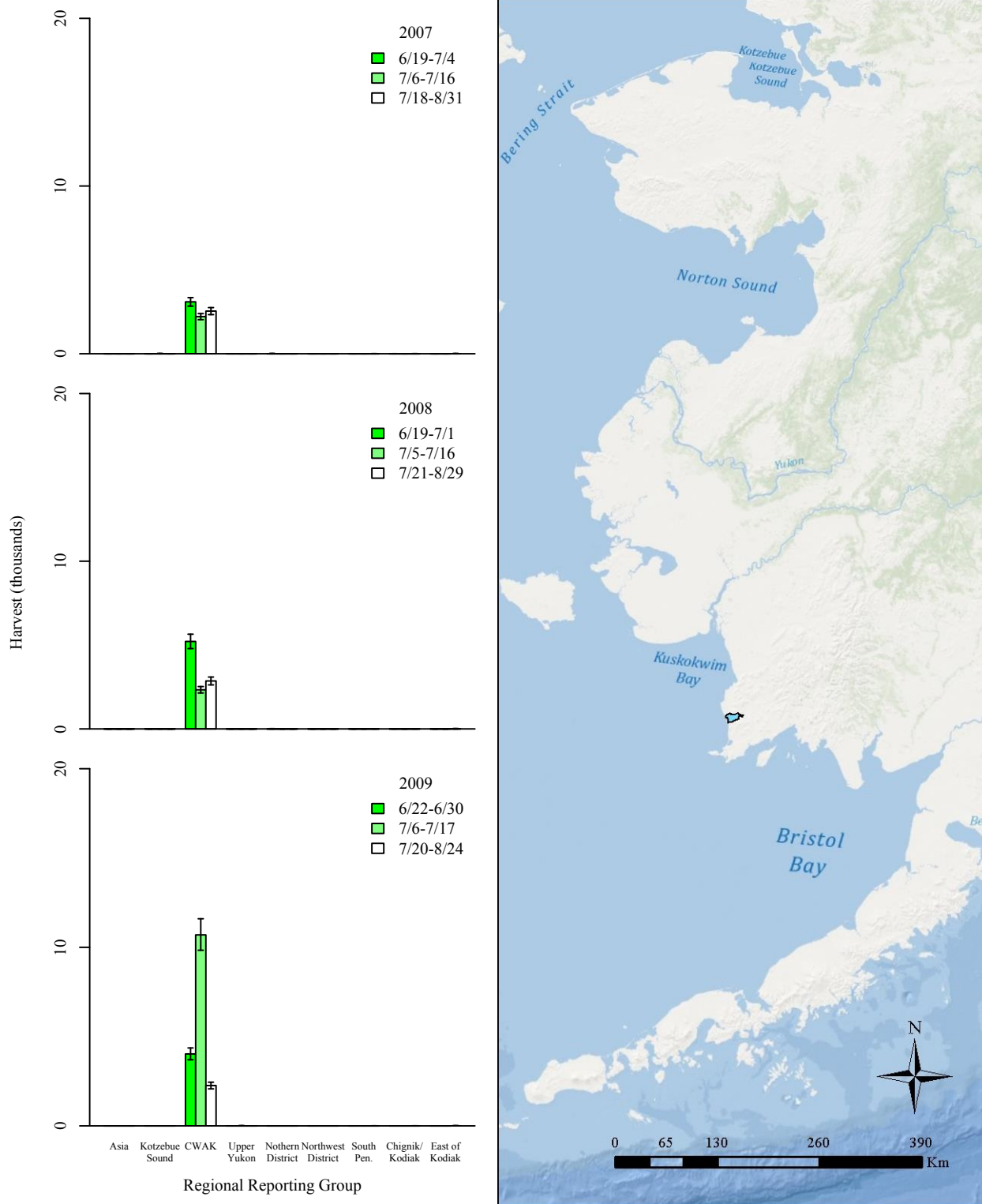


Figure 20.—Median reporting group harvest estimates (bars) and 90% credibility intervals (whiskers) by temporal stratum within years for chum salmon sampled from District 5, Commercial, Kuskokwim Area, Arctic-Yukon-Kuskokwim Region (map) from 2007 to 2009 for the Western Alaska Salmon Stock Identification Program.

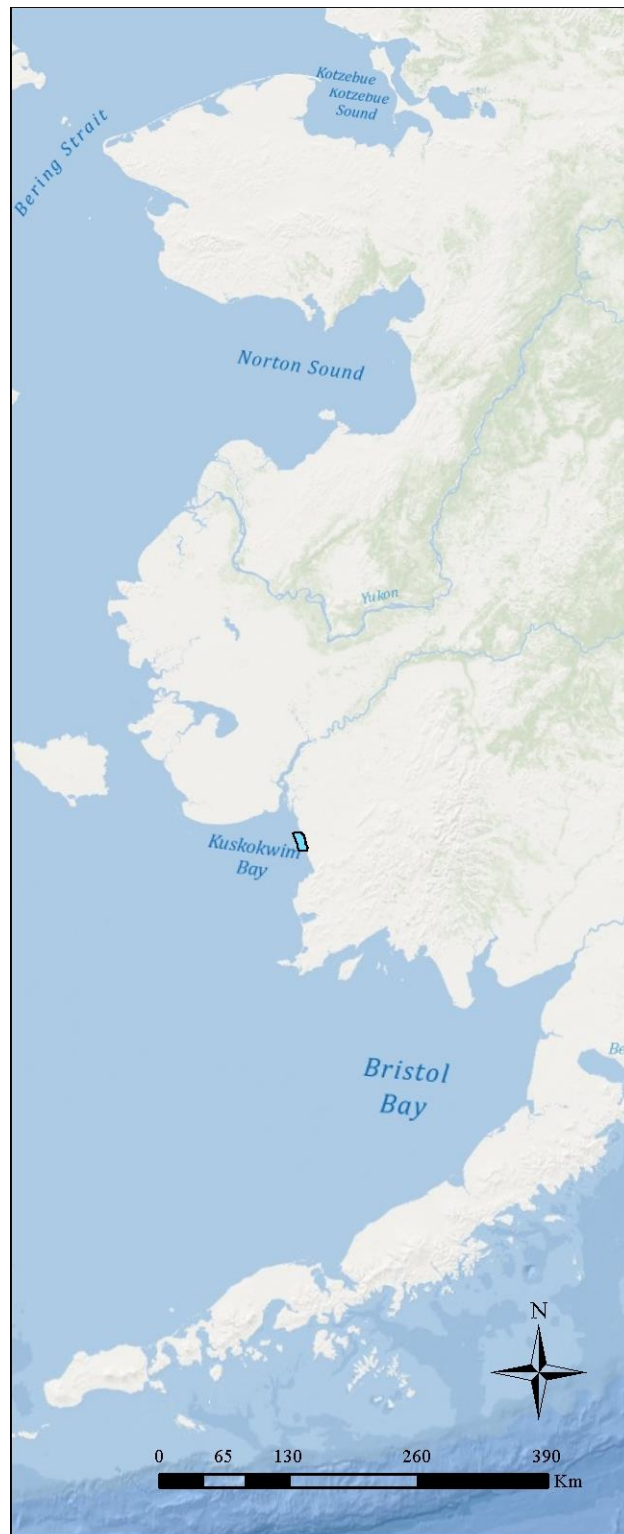
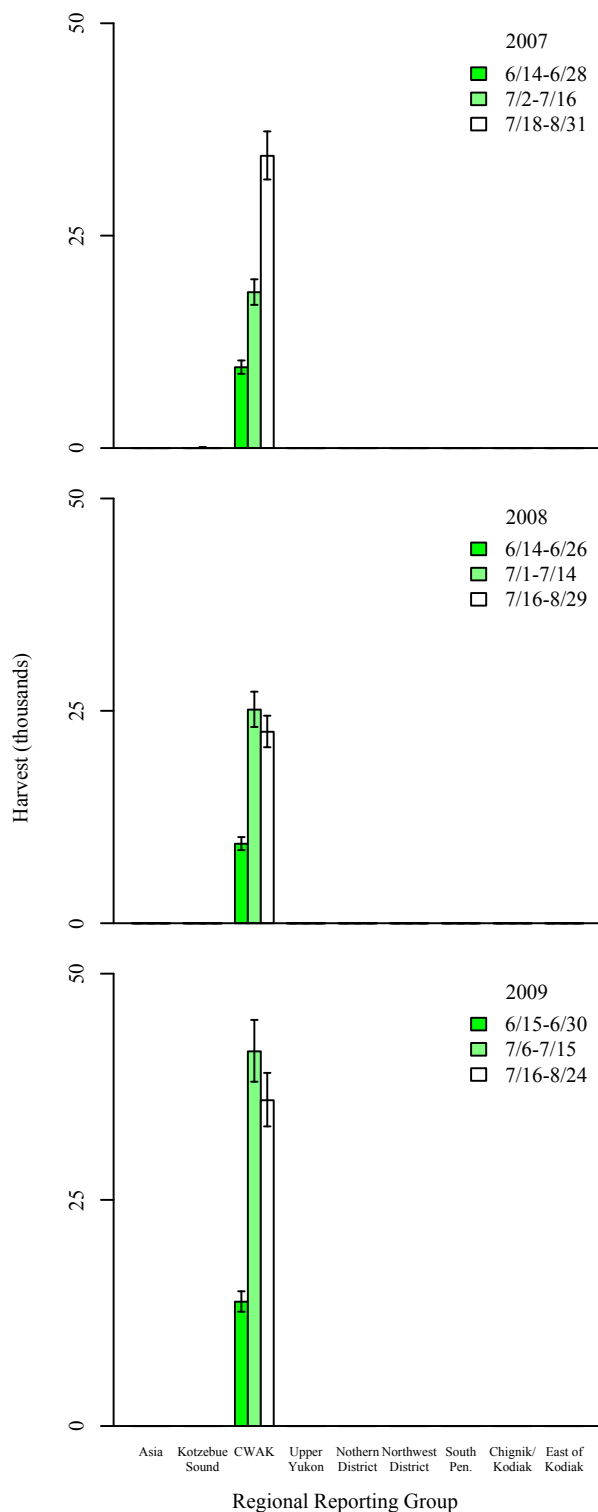


Figure 21.—Median reporting group harvest estimates (bars) and 90% credibility intervals (whiskers) by temporal stratum within years for chum salmon sampled from District 4, Commercial, Kuskokwim Area, Arctic-Yukon-Kuskokwim Region (map) from 2007 to 2009 for the Western Alaska Salmon Stock Identification Program.

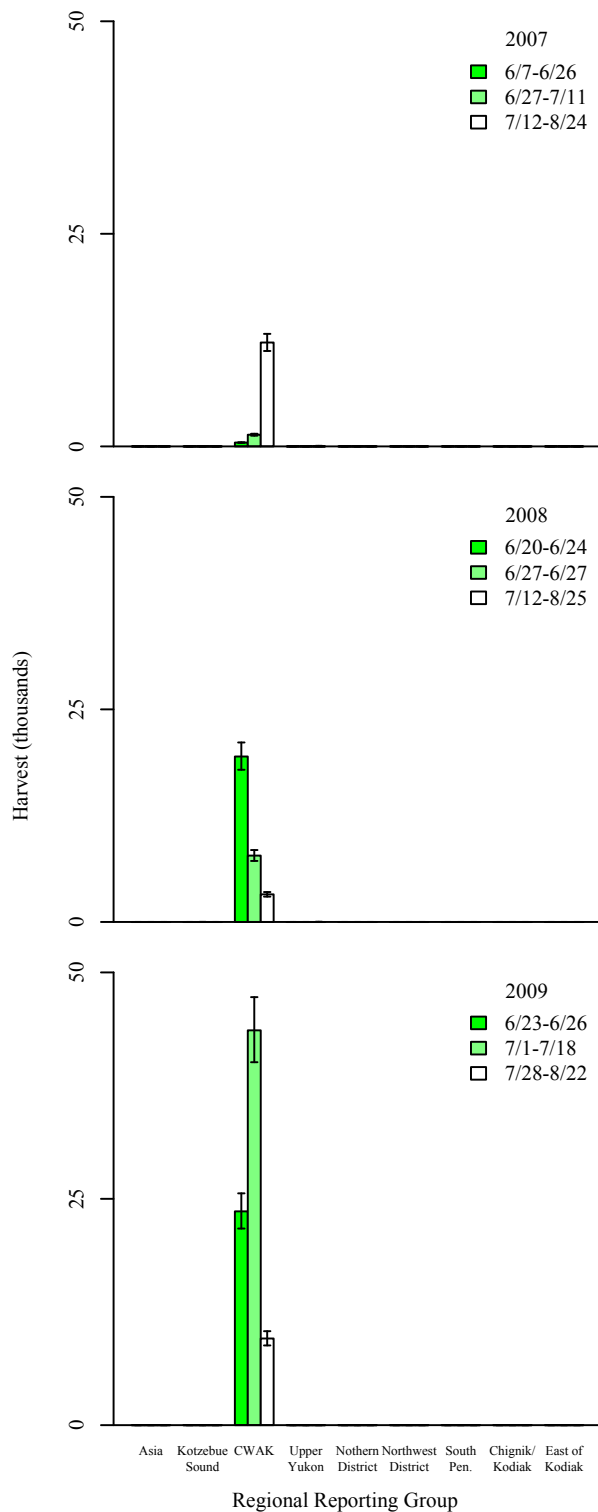


Figure 22.—Median reporting group harvest estimates (bars) and 90% credibility intervals (whiskers) by temporal stratum within years for chum salmon sampled from District 1, Commercial, Kuskokwim Area, Arctic-Yukon-Kuskokwim Region (map) from 2007 to 2009 for the Western Alaska Salmon Stock Identification Program.

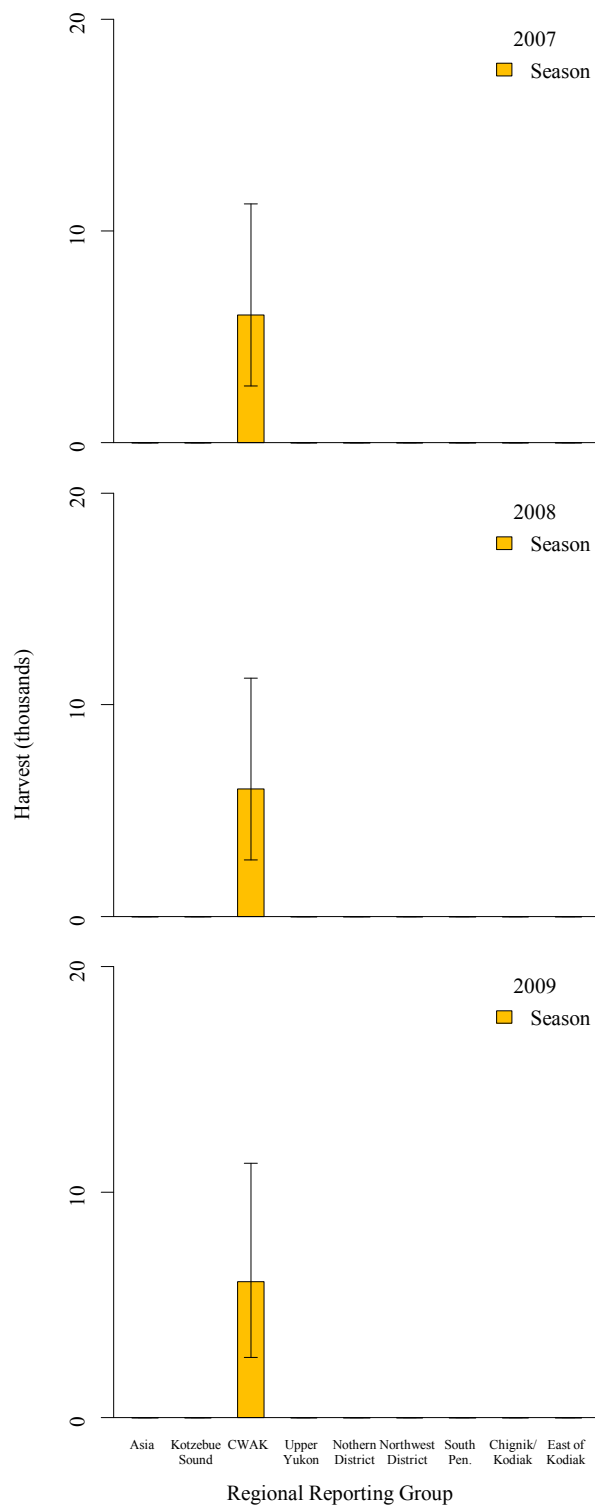


Figure 23.—Median reporting group harvest estimates (bars) and 90% credibility intervals (whiskers) by temporal stratum within years for chum salmon sampled from Mekoryuk, Subsistence, Kuskokwim Area, Arctic-Yukon-Kuskokwim Region (map) from 2007 to 2009 for the Western Alaska Salmon Stock Identification Program.

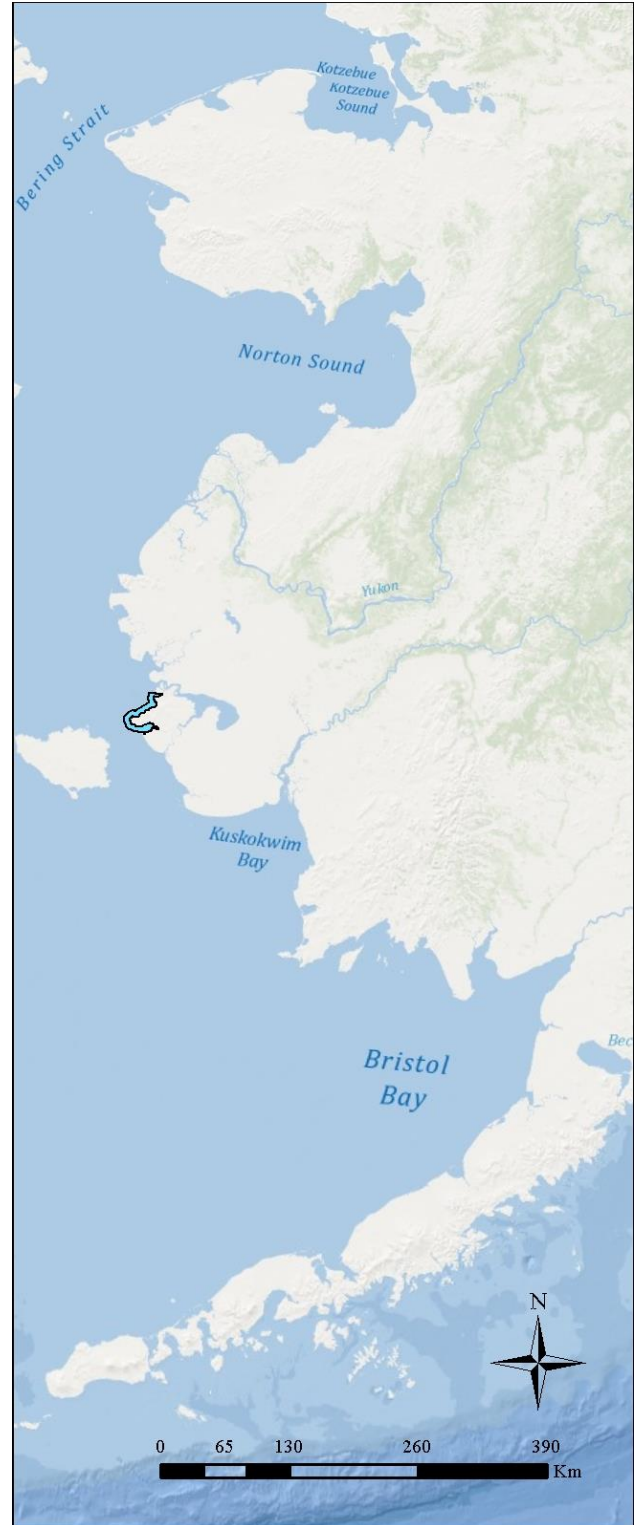
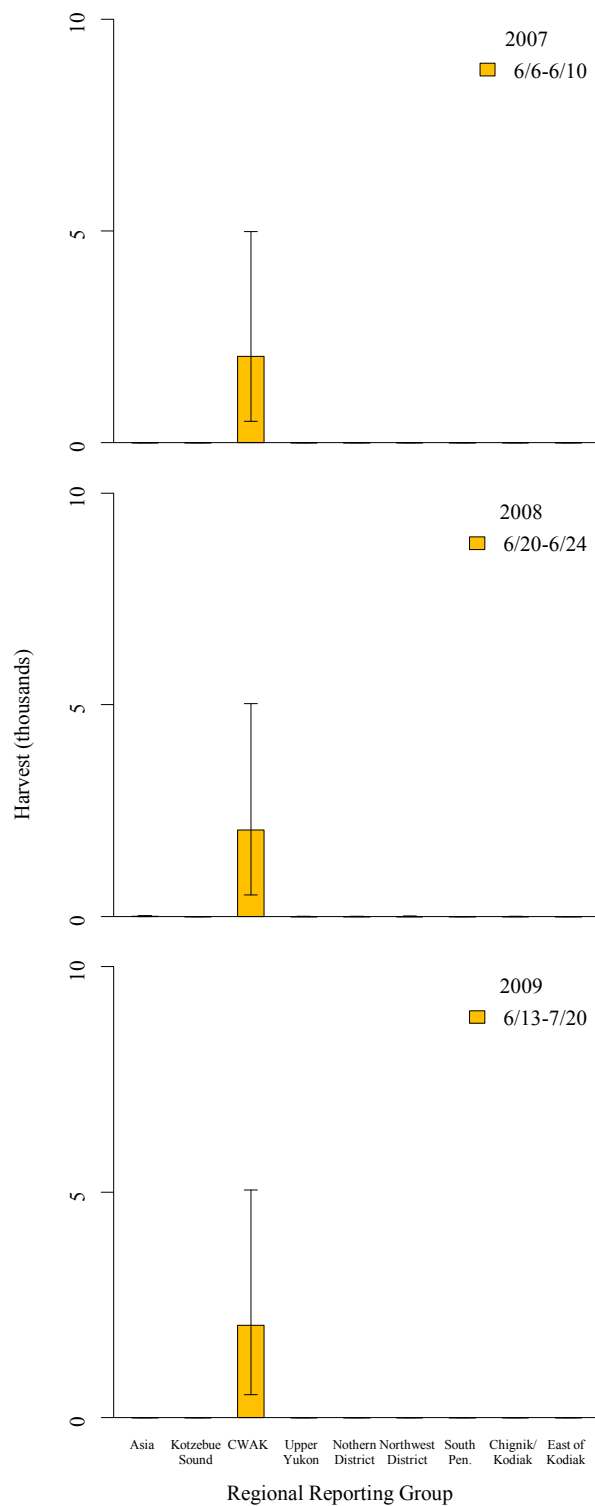


Figure 24.—Median reporting group harvest estimates (bars) and 90% credibility intervals (whiskers) by temporal stratum within years for chum salmon sampled from Toksook Bay, Subsistence, Kuskokwim Area, Arctic-Yukon-Kuskokwim Region (map) from 2007 to 2009 for the Western Alaska Salmon Stock Identification Program.

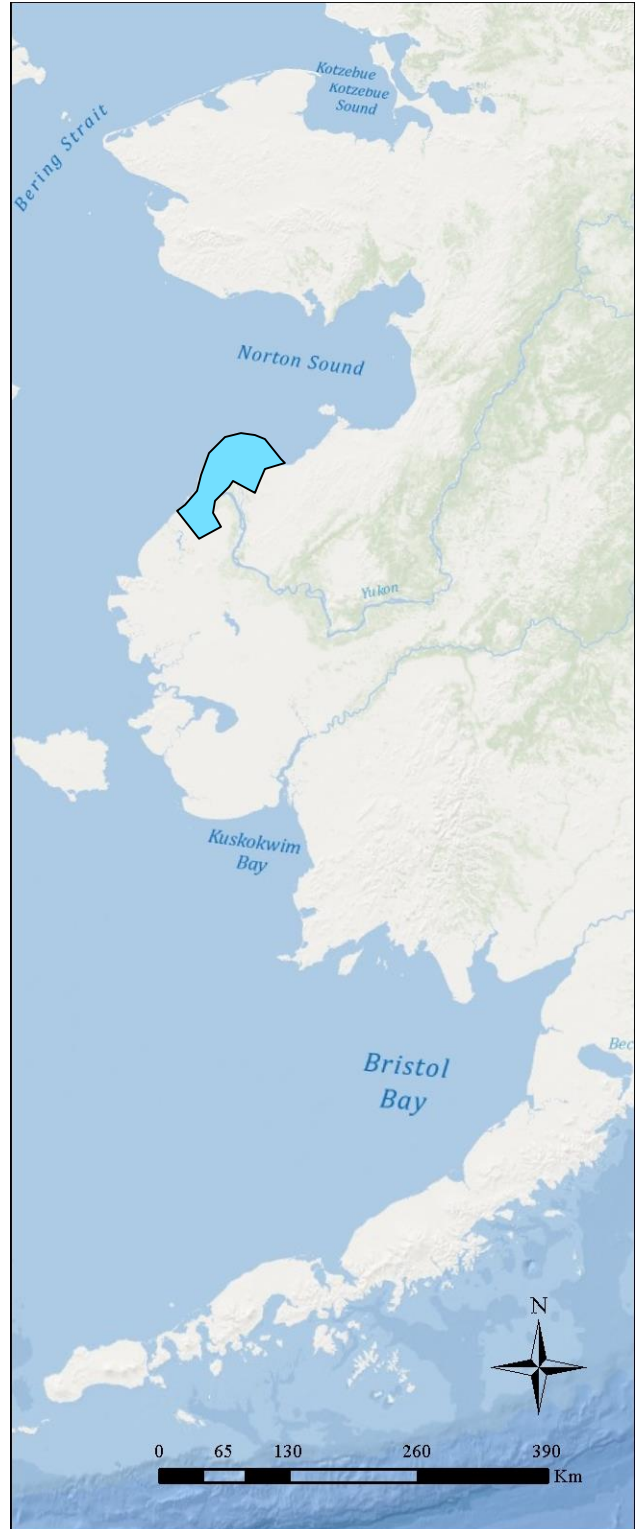
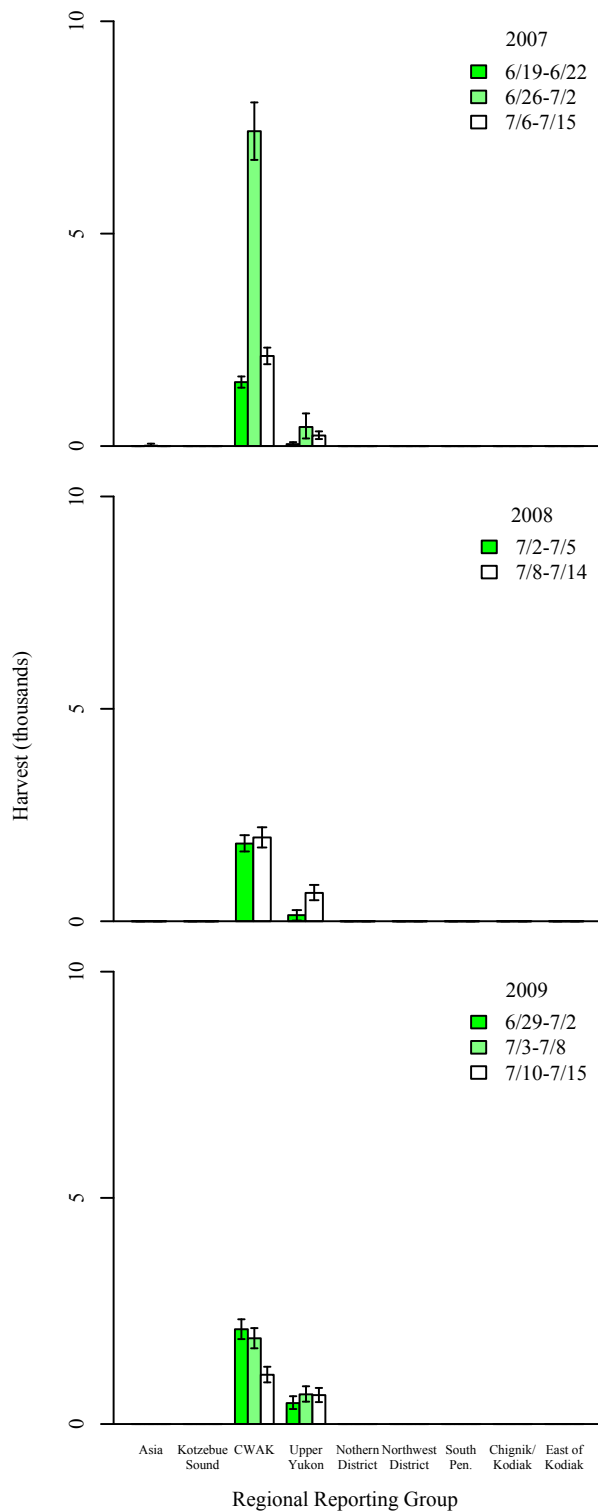


Figure 25.—Median reporting group harvest estimates (bars) and 90% credibility intervals (whiskers) by temporal stratum within years for chum salmon sampled from District 1 marine areas excluding Black River (summer), Commercial, Yukon-Northern Area (map) from 2007 to 2009 for the Western Alaska Salmon Stock Identification Program.

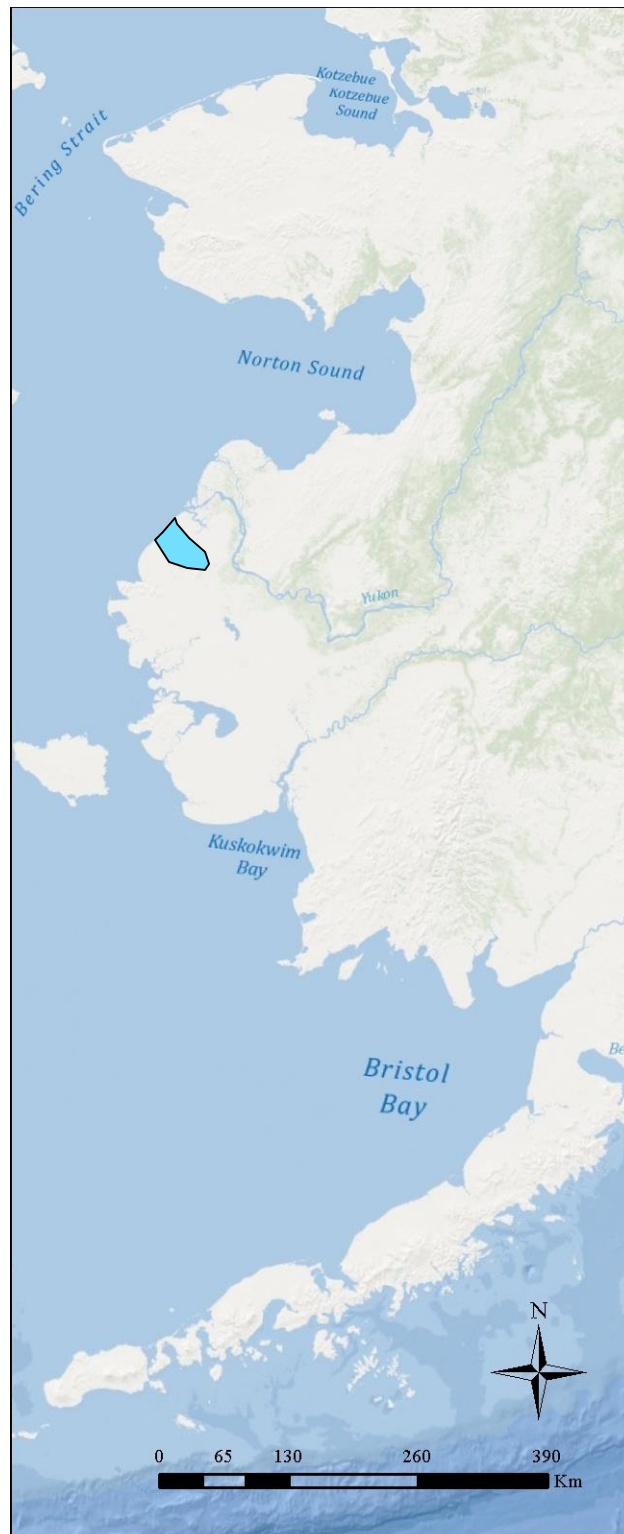
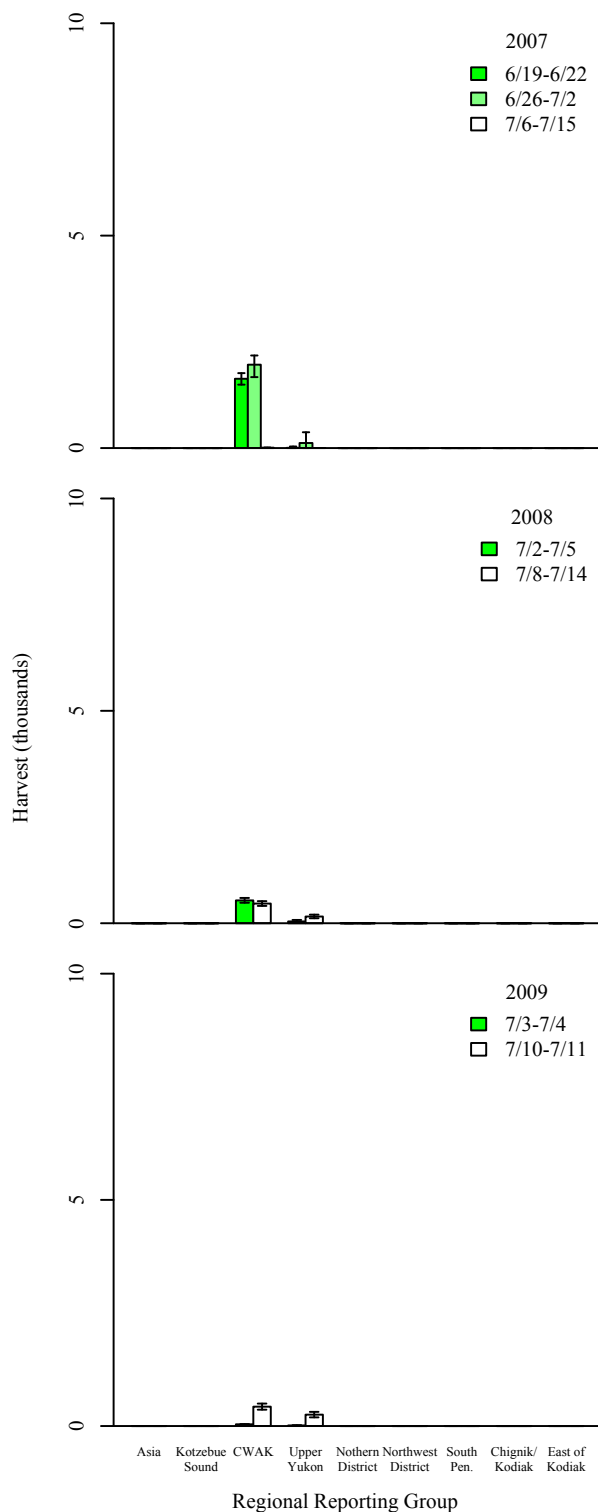


Figure 26.—Median reporting group harvest estimates (bars) and 90% credibility intervals (whiskers) by temporal stratum within years for chum salmon sampled from District 1 Black River only (summer), Commercial, Yukon-Northern Area, Arctic-Yukon-Kuskokwim Region (map) from 2007 to 2009 for the Western Alaska Salmon Stock Identification Program.

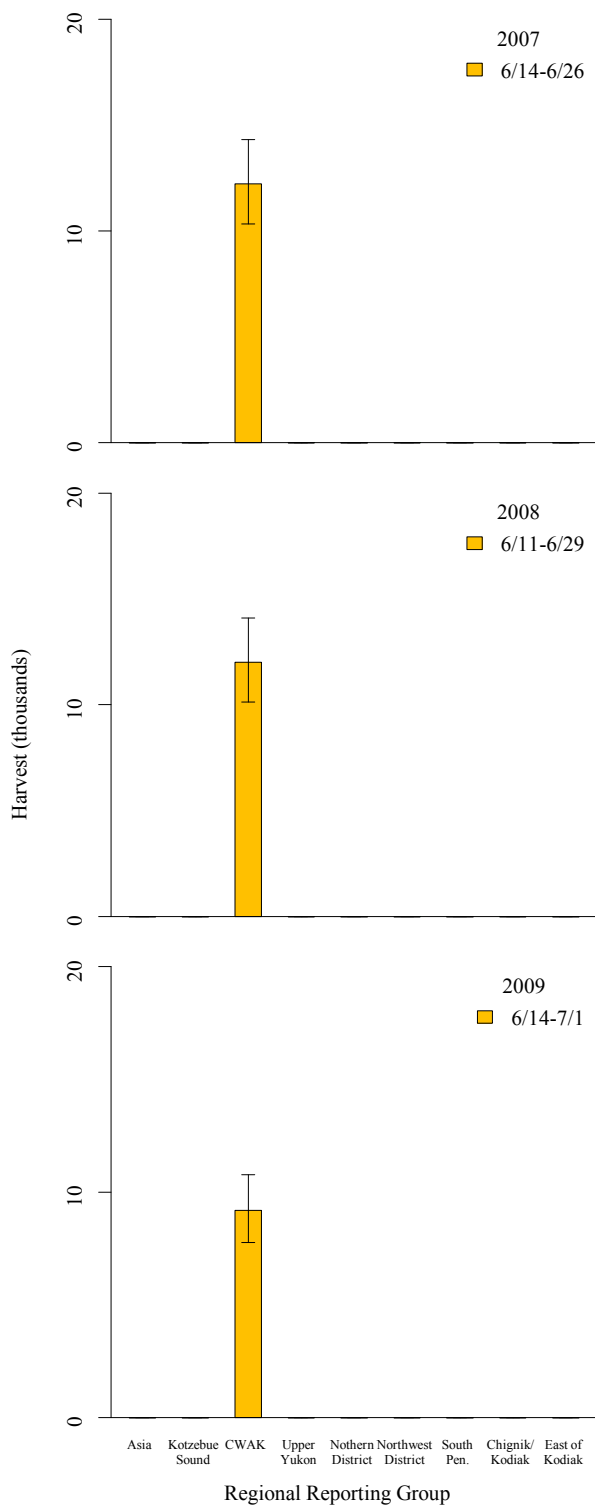


Figure 27.—Median reporting group harvest estimates (bars) and 90% credibility intervals (whiskers) by temporal stratum within years for chum salmon sampled from Coastal District (Hooper Bay; summer), Subsistence, Yukon-Northern Area, Arctic-Yukon-Kuskokwim Region (map) from 2007 to 2009 for the Western Alaska Salmon Stock Identification Program.

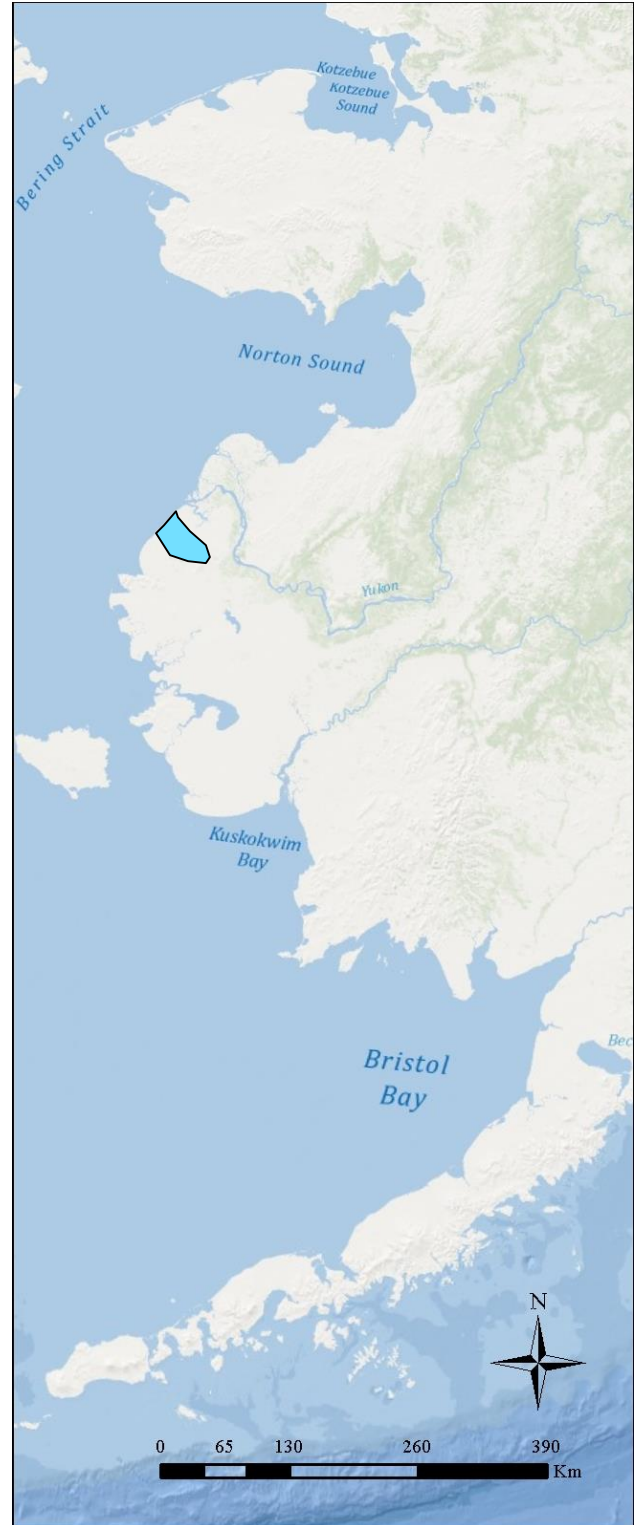
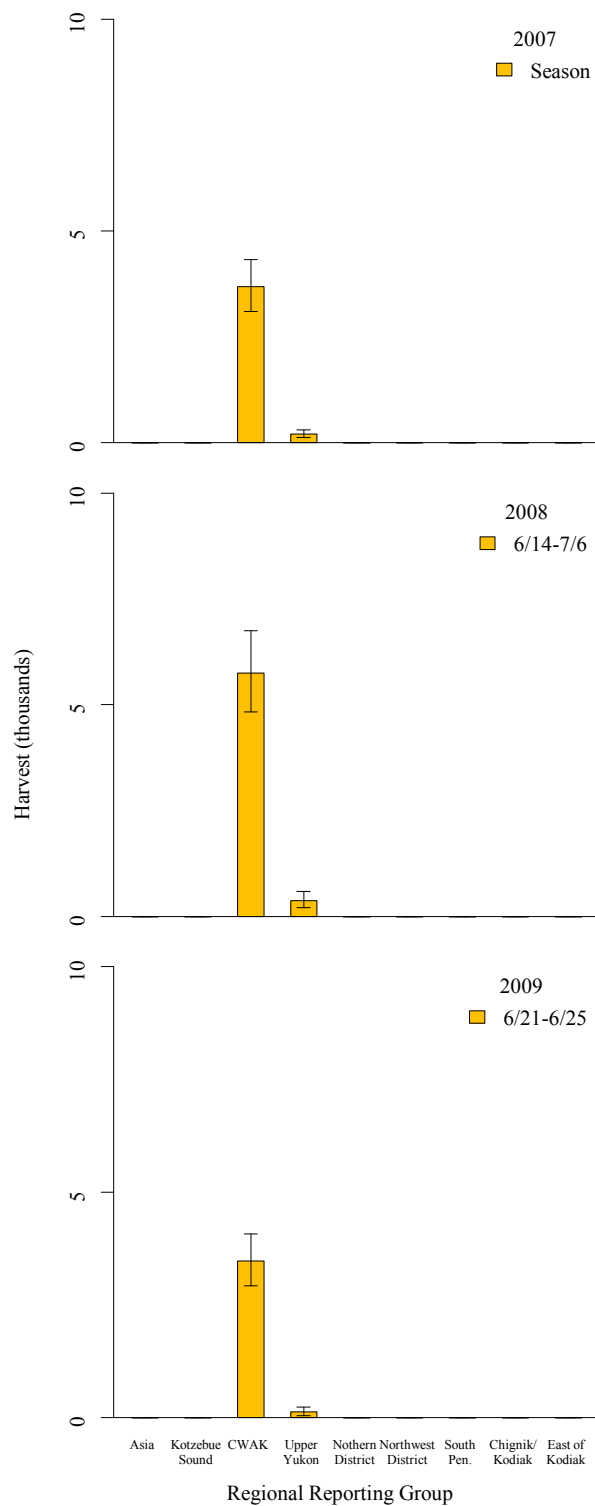


Figure 28.—Median reporting group harvest estimates (bars) and 90% credibility intervals (whiskers) by temporal stratum within years for chum salmon sampled from District 1 (Scammon Bay) Black River (summer), Subsistence, Yukon-Northern Area, Arctic-Yukon-Kuskokwim Region (map) from 2007 to 2009 for the Western Alaska Salmon Stock Identification Program.

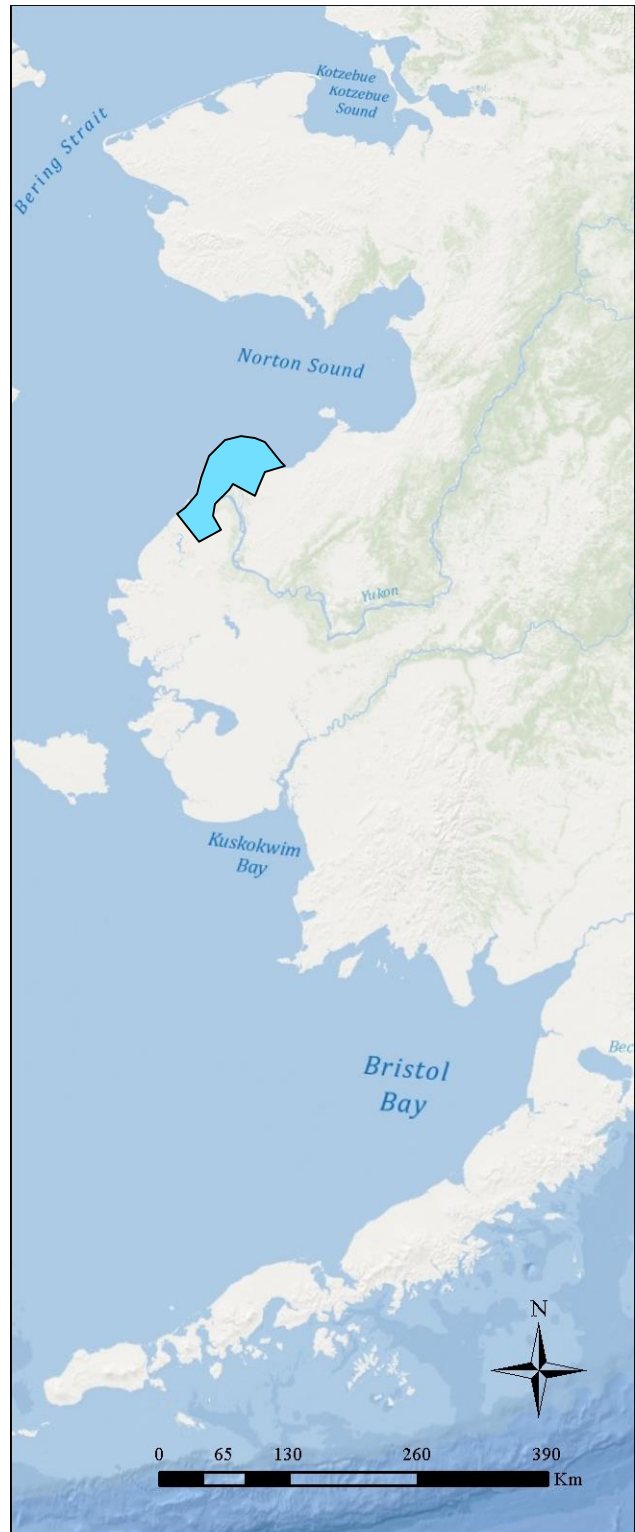
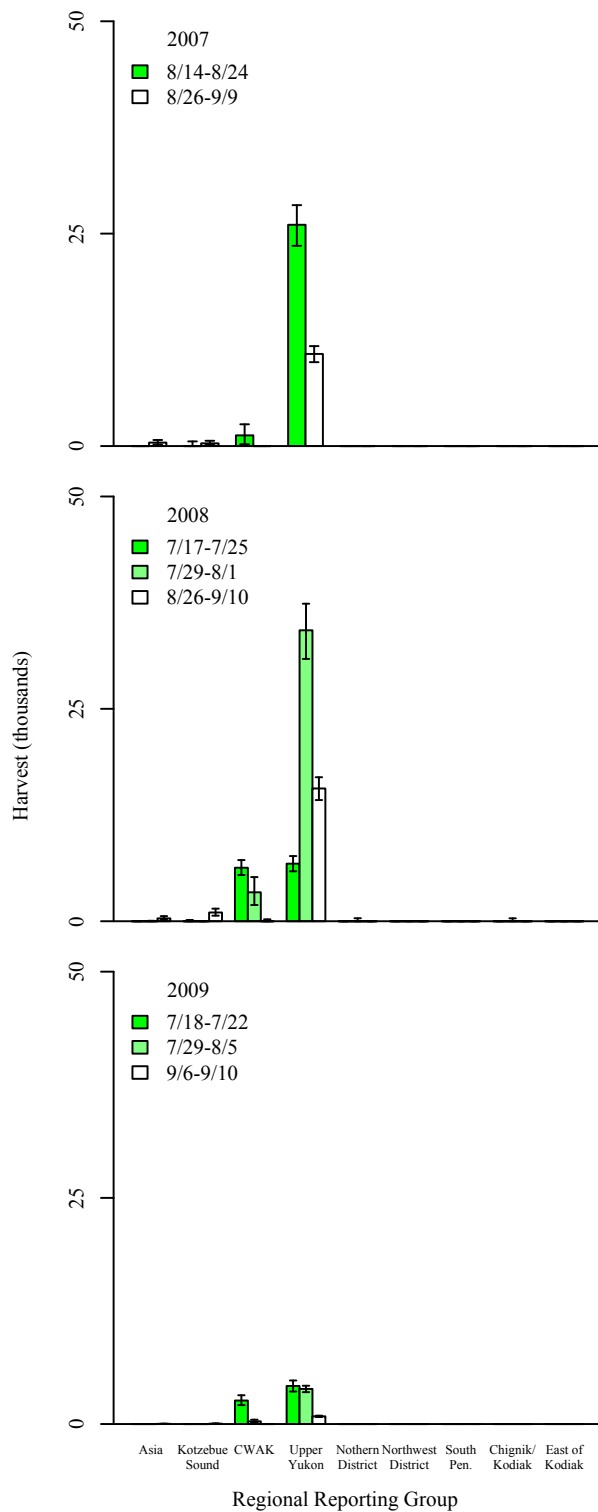


Figure 29.—Median reporting group harvest estimates (bars) and 90% credibility intervals (whiskers) by temporal stratum within years for chum salmon sampled from District 1 marine areas excluding Black River (fall), Commercial, Yukon-Northern Area, Arctic-Yukon-Kuskokwim Region (map) from 2007 to 2009 for the Western Alaska Salmon Stock Identification Program.

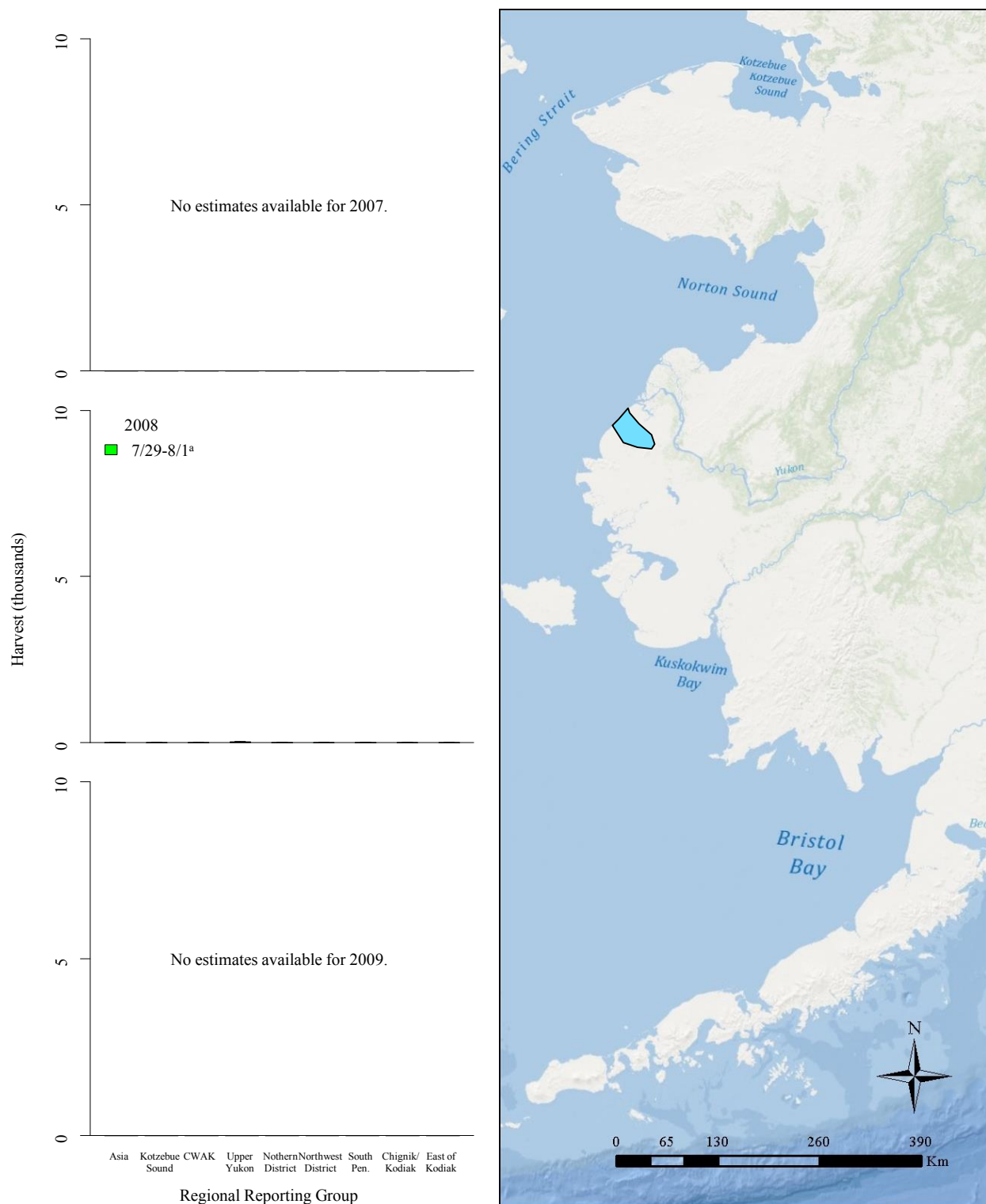


Figure 30.—Median reporting group harvest estimates (bars) and 90% credibility intervals (whiskers) by temporal stratum within years for chum salmon sampled from District 1 Black River only (fall), Commercial, Yukon-Northern Area, Arctic-Yukon-Kuskokwim Region (map) from 2007 to 2009 for the Western Alaska Salmon Stock Identification Program

^a Only 22 fish were harvested. Stock composition was not estimated: Assumed that all fish belong to Upper Yukon reporting group.

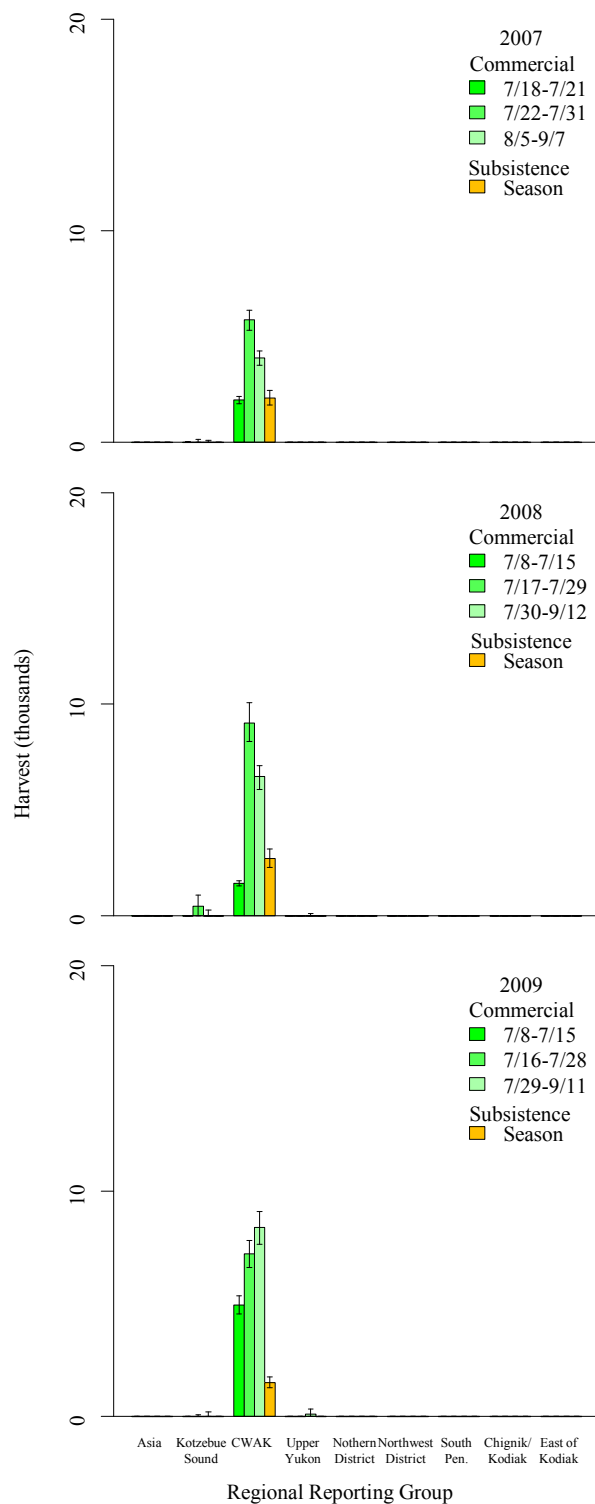


Figure 31.—Median reporting group harvest estimates (bars) and 90% credibility intervals (whiskers) by temporal stratum within years for chum salmon sampled from Subdistrict 6 Unalakleet, Subsistence and Commercial, Norton Sound-Port Clarence Area, Arctic-Yukon-Kuskokwim Region (map) from 2007 to 2009 for the Western Alaska Salmon Stock Identification Program.

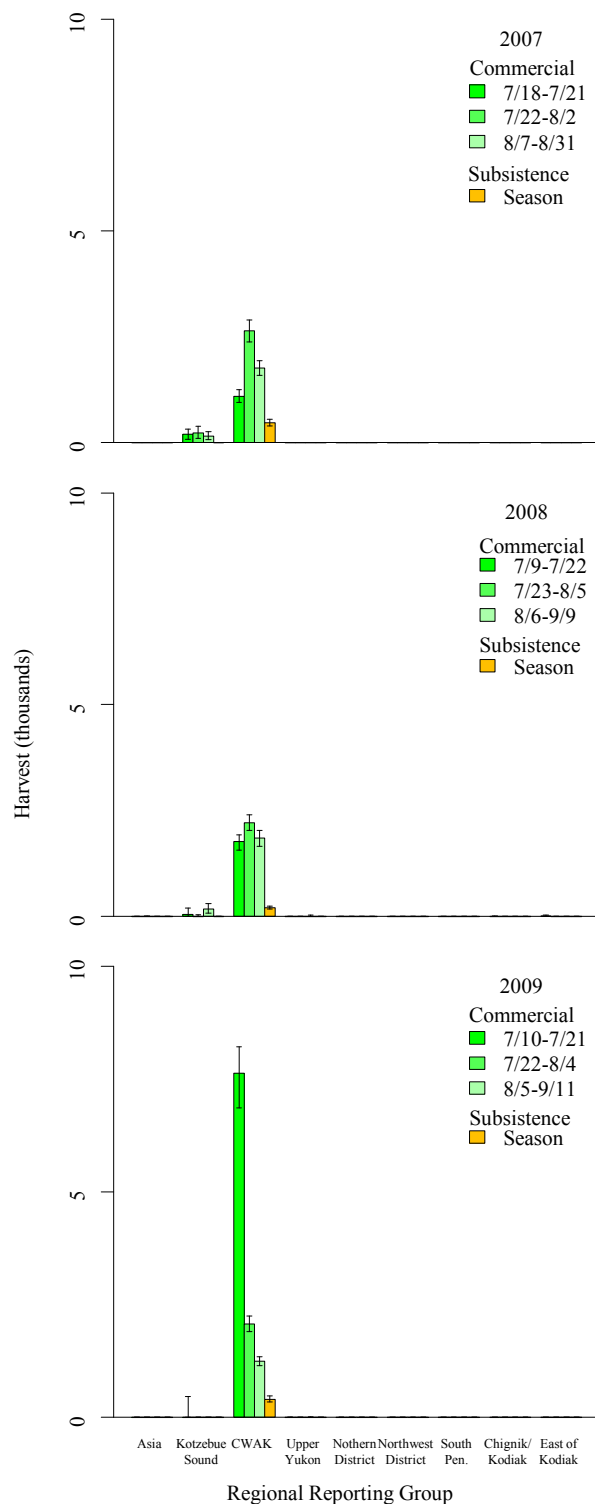


Figure 32.—Median reporting group harvest estimates (bars) and 90% credibility intervals (whiskers) by temporal stratum within years for chum salmon sampled from Subdistrict 5 Shaktoolik, Subsistence and Commercial, Norton Sound-Port Clarence Area, Arctic-Yukon-Kuskokwim Region (map) from 2007 to 2009 for the Western Alaska Salmon Stock Identification Program.

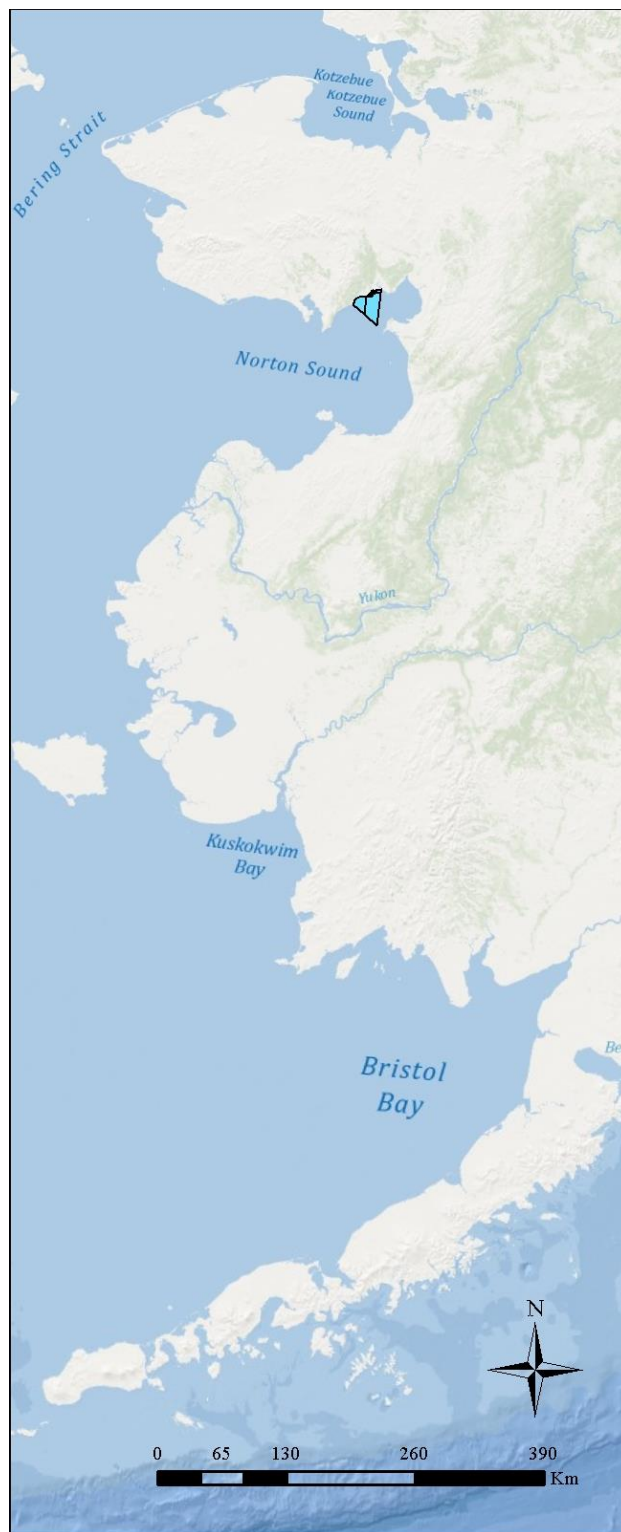
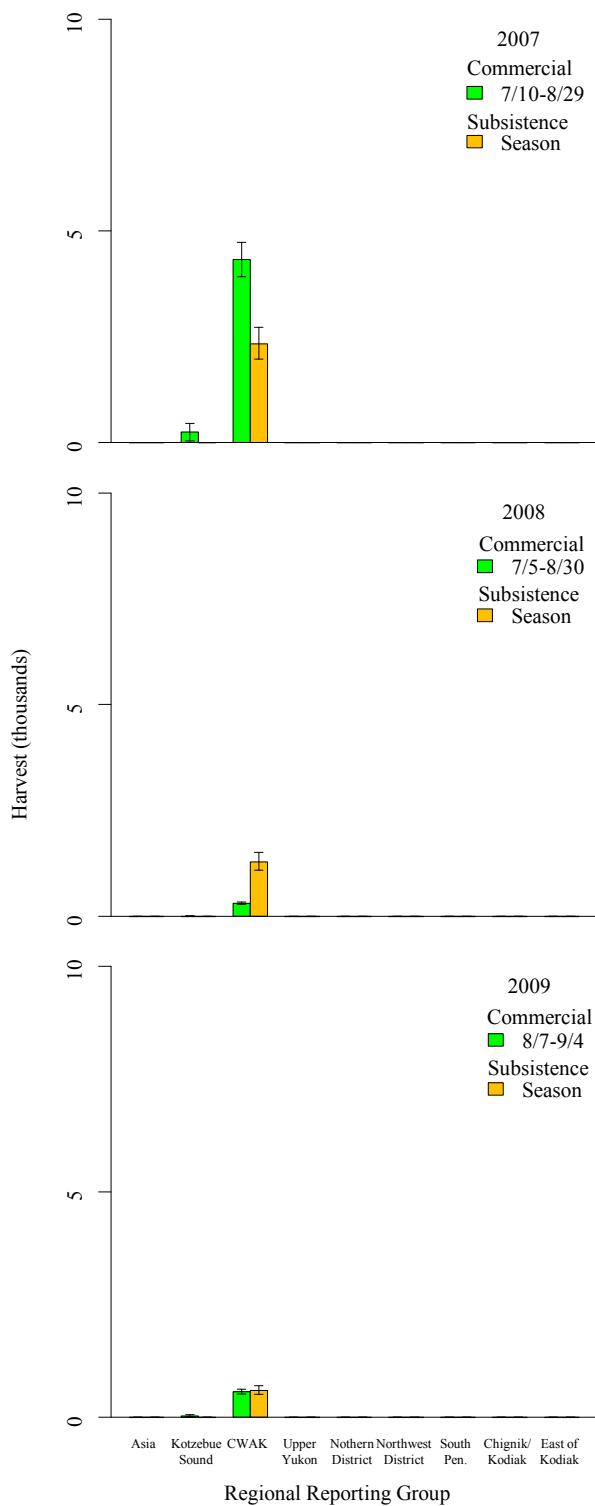


Figure 33.—Median reporting group harvest estimates (bars) and 90% credibility intervals (whiskers) by temporal stratum within years for chum salmon sampled from Subdistrict 3 Moses Point, Subsistence and Commercial, Norton Sound-Port Clarence Area, Arctic-Yukon-Kuskokwim Region (map) from 2007 to 2009 for the Western Alaska Salmon Stock Identification Program.

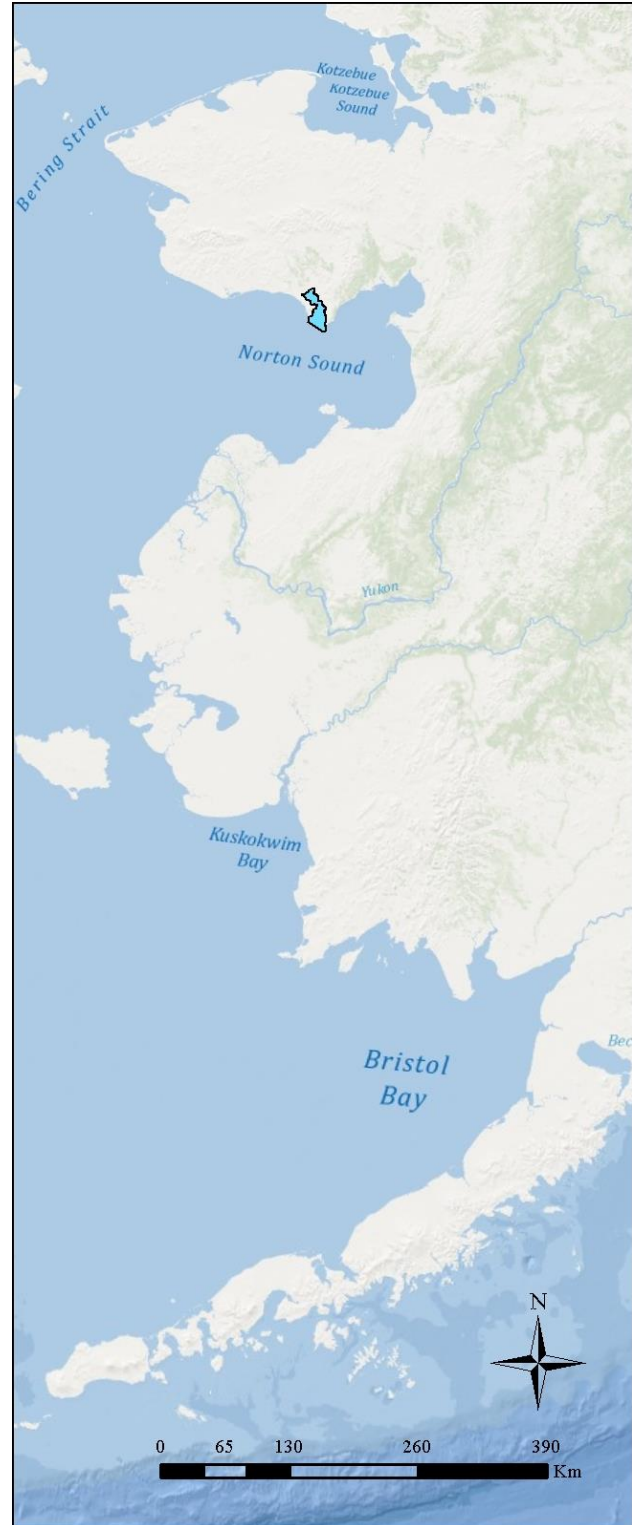
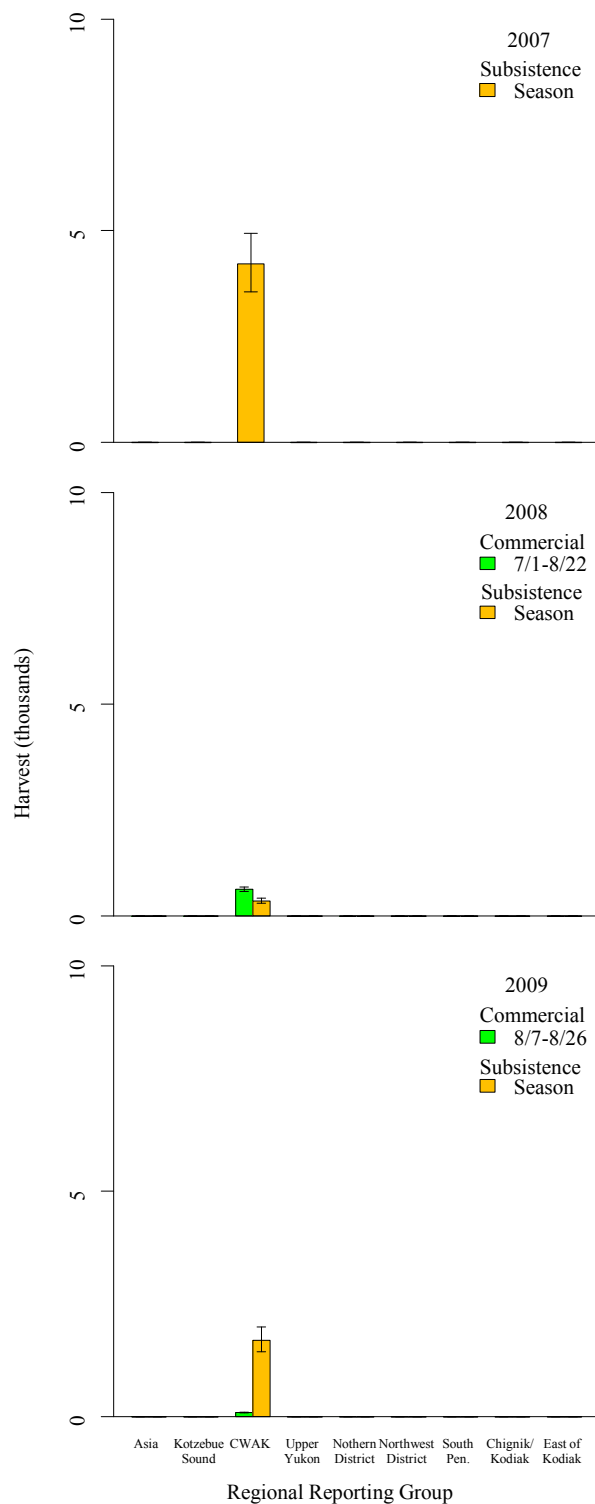


Figure 34.—Median reporting group harvest estimates (bars) and 90% credibility intervals (whiskers) by temporal stratum within years for chum salmon sampled from Subdistrict 2 Golovin Bay, Subsistence and Commercial, Norton Sound-Port Clarence Area, Arctic-Yukon-Kuskokwim Region (map) from 2007 to 2009 for the Western Alaska Salmon Stock Identification Program.

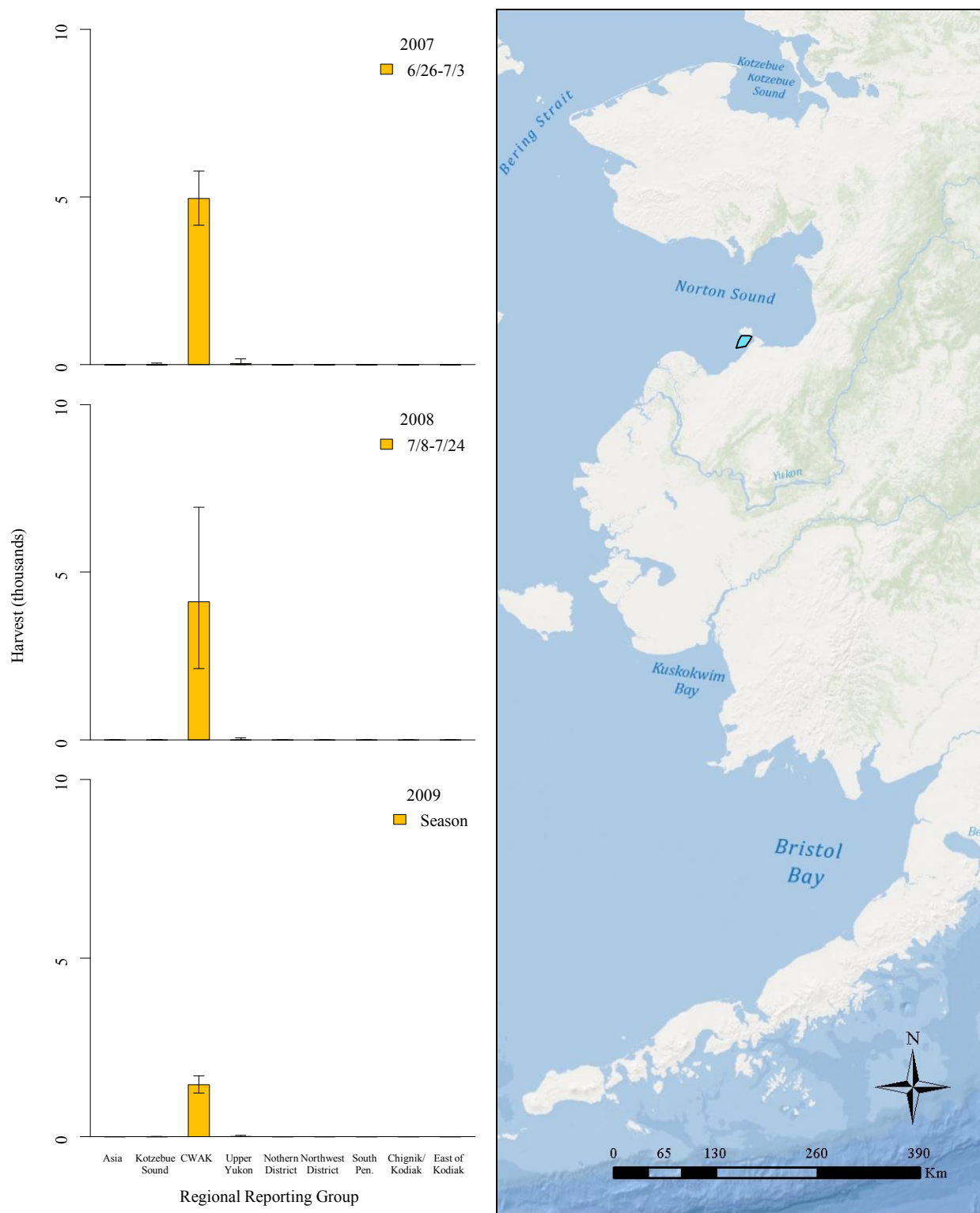


Figure 35.—Median reporting group harvest estimates (bars) and 90% credibility intervals (whiskers) by temporal stratum within years for chum salmon sampled from Stebbins area, Subsistence, Norton Sound-Port Clarence Area, Arctic-Yukon-Kuskokwim Region (map) from 2007 to 2009 for the Western Alaska Salmon Stock Identification Program.

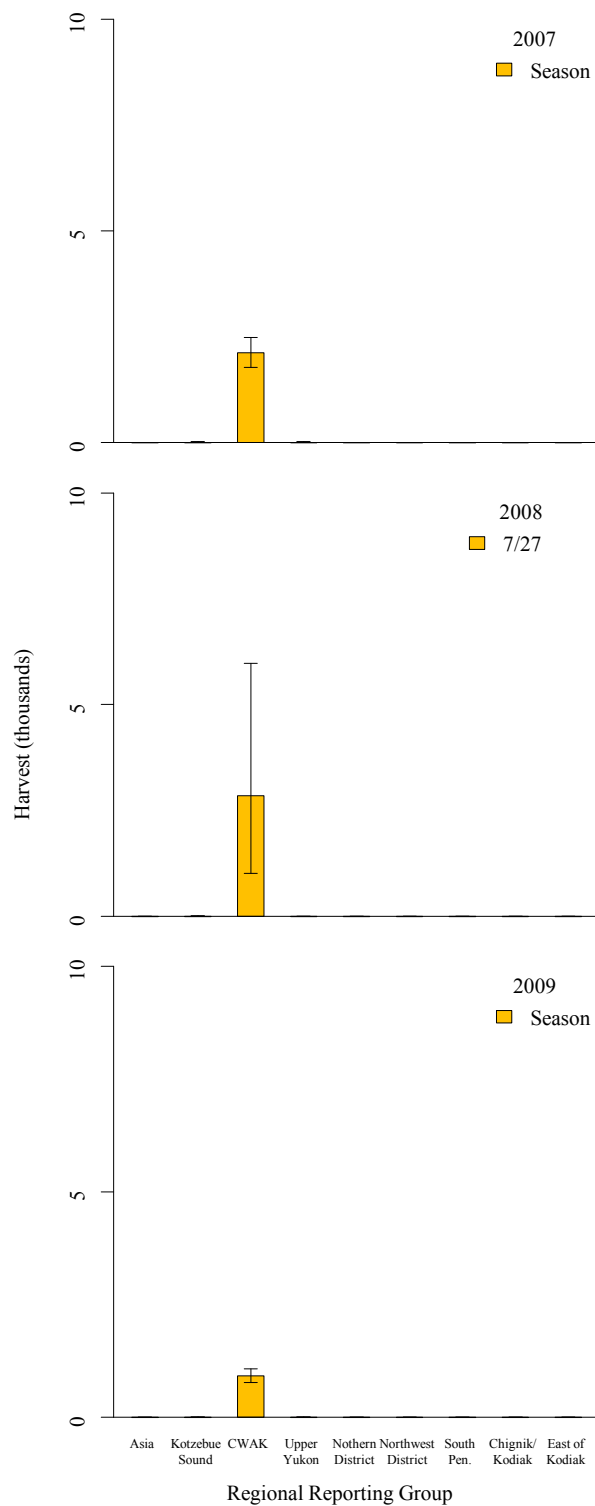


Figure 36.—Median reporting group harvest estimates (bars) and 90% credibility intervals (whiskers) by temporal stratum within years for chum salmon sampled from St. Michael area, Subsistence, Norton Sound-Port Clarence Area, Arctic-Yukon-Kuskokwim Region (map) from 2007 to 2009 for the Western Alaska Salmon Stock Identification Program.

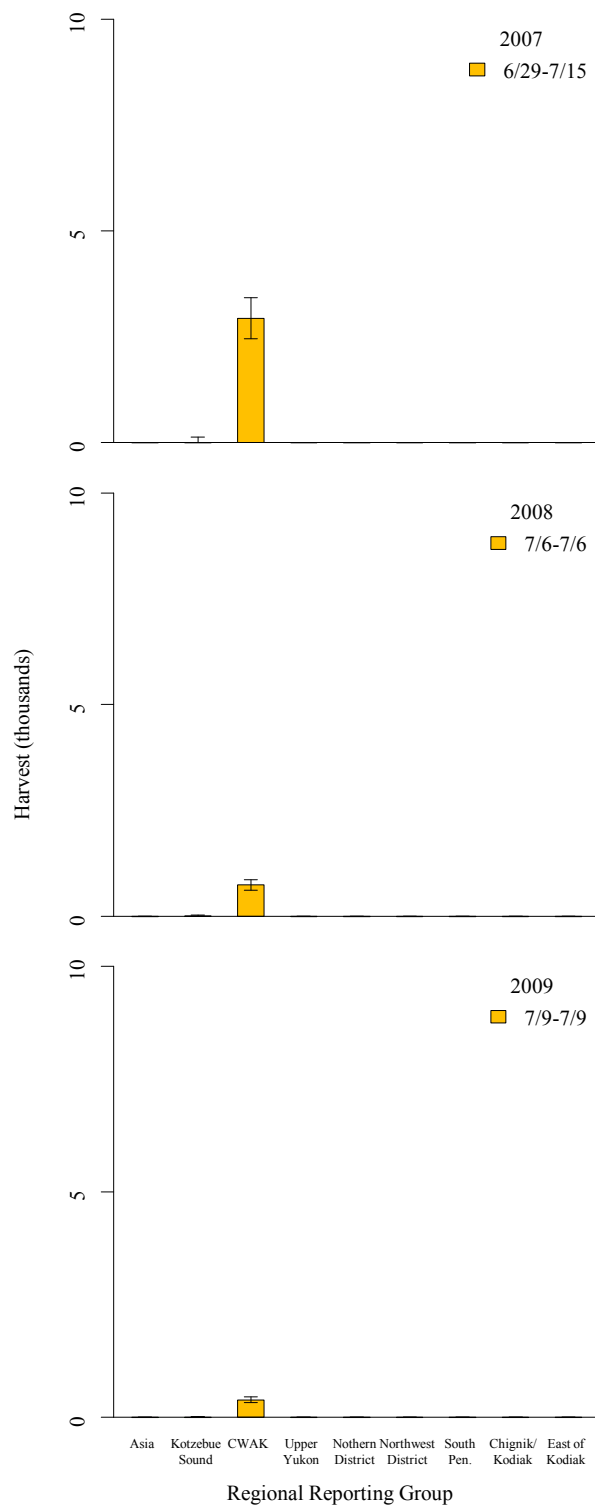


Figure 37.—Median reporting group harvest estimates (bars) and 90% credibility intervals (whiskers) by temporal stratum within years for chum salmon sampled from Subdistrict 1 Nome area, Subsistence, Norton Sound-Port Clarence Area, Arctic-Yukon-Kuskokwim Region (map) from 2007 to 2009 for the Western Alaska Salmon Stock Identification Program.

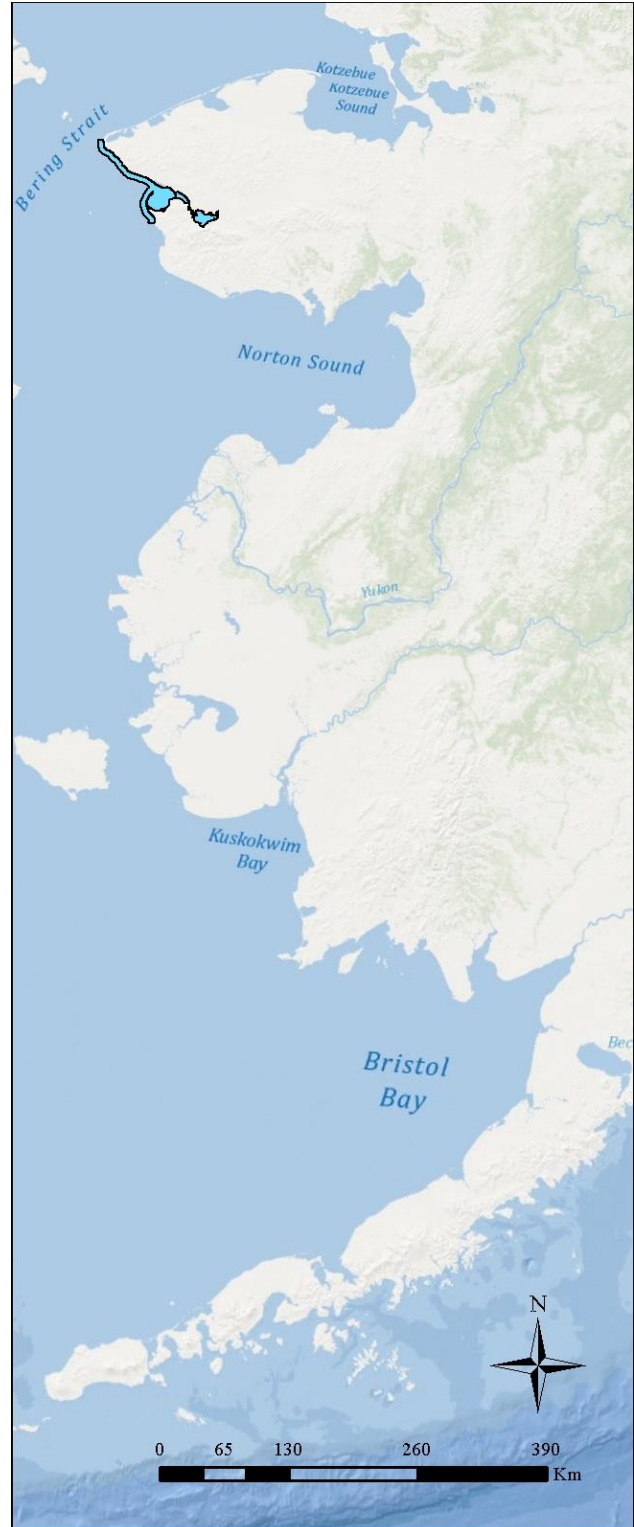
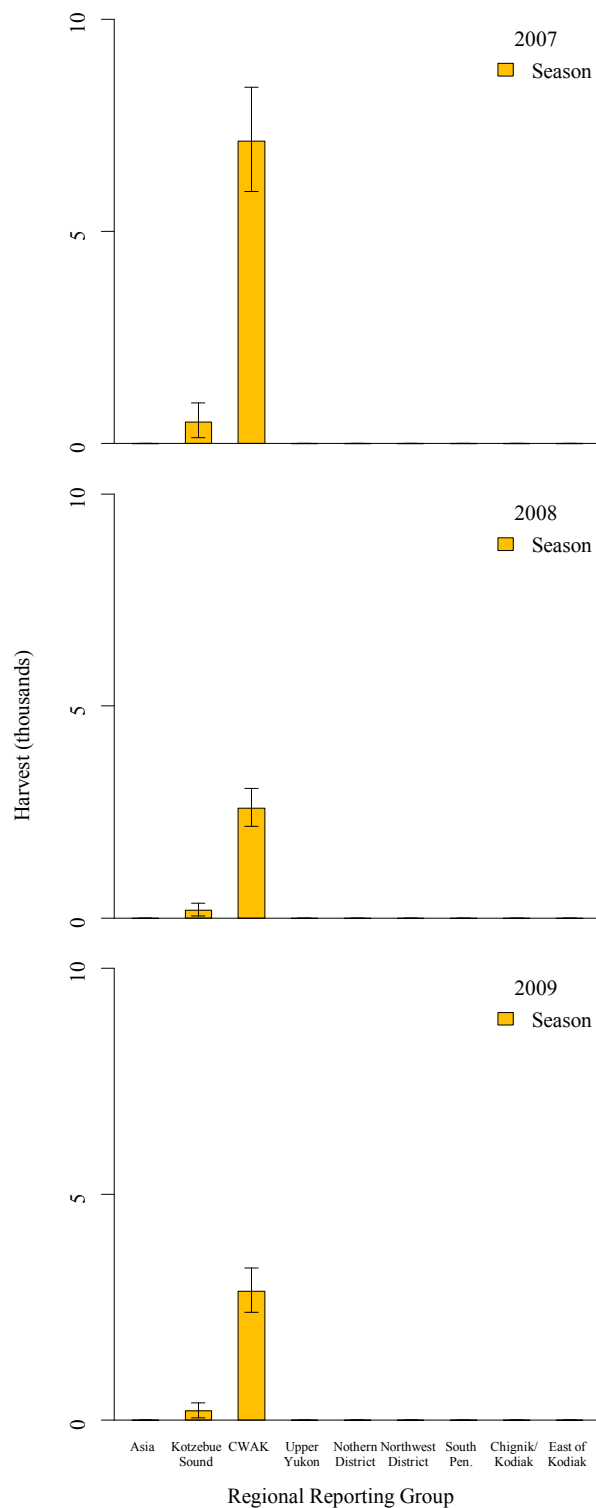


Figure 38.—Median reporting group harvest estimates (bars) and 90% credibility intervals (whiskers) by temporal stratum within years for chum salmon sampled from Port Clarence District, Subsistence and Commercial, Norton Sound-Port Clarence Area, Arctic-Yukon-Kuskokwim Region (map) from 2007 to 2009 for the Western Alaska Salmon Stock Identification Program.

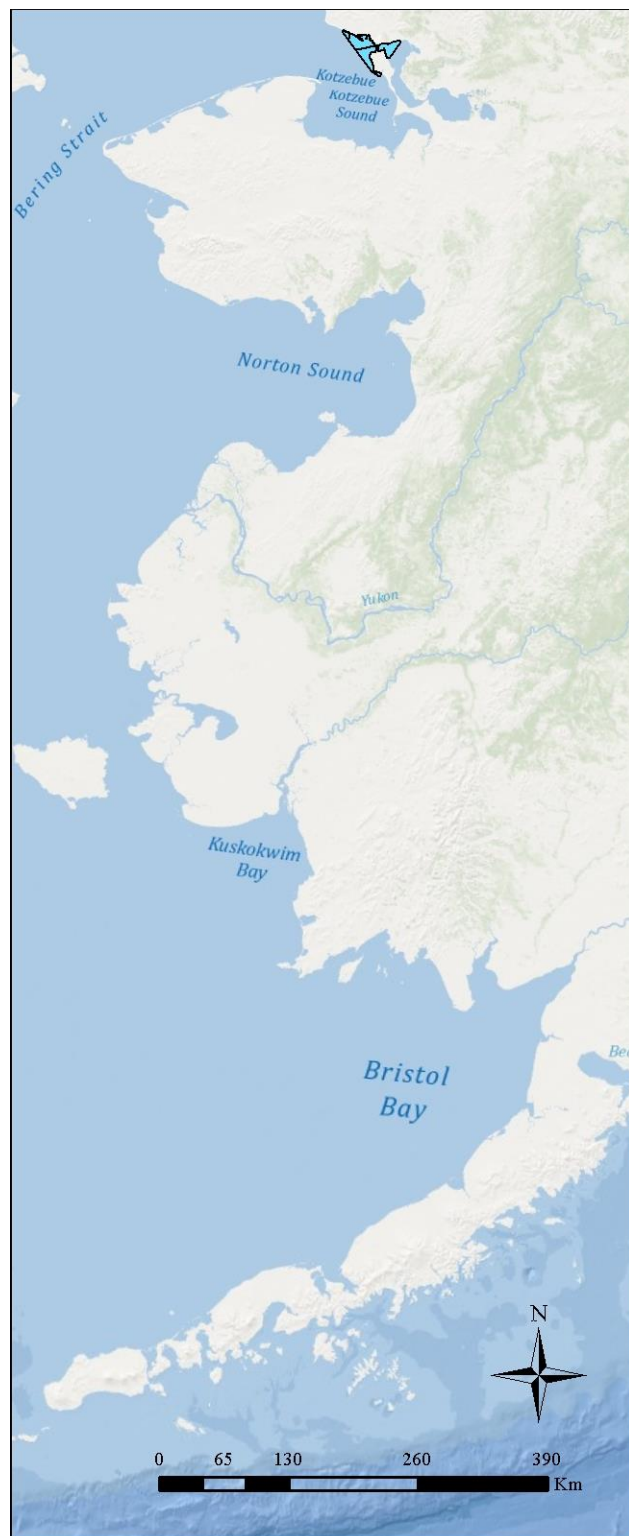
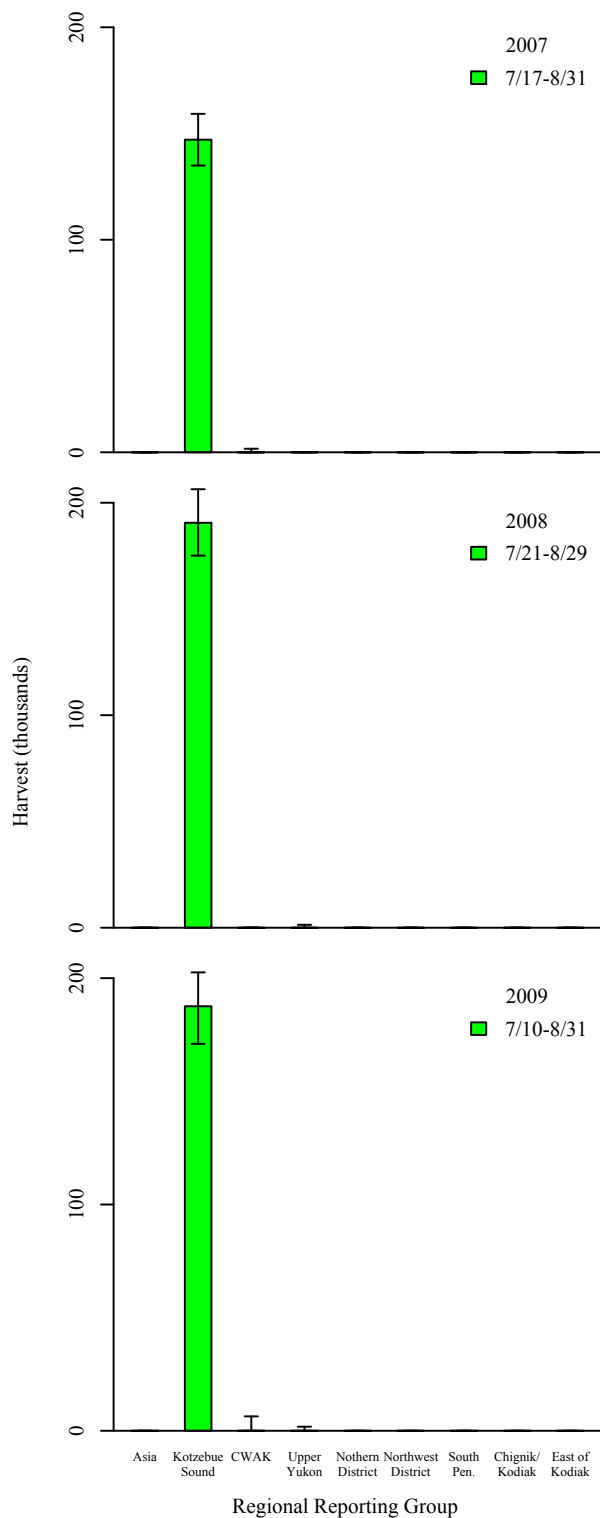


Figure 39.—Median reporting group harvest estimates (bars) and 90% credibility intervals (whiskers) by temporal stratum within years for chum salmon sampled from Kotzebue Sound District, Commercial, Kotzebue Area, Arctic-Yukon-Kuskokwim Region (map) from 2007 to 2009 for the Western Alaska Salmon Stock Identification Program.

**FIGURES 40-76: HARVEST RATE IN AREA STRATA BY
REPORTING GROUP ACROSS YEARS**

***WHAT STOCKS WERE HARVESTED IN A GIVEN BROAD-SCALE
FISHERY?***

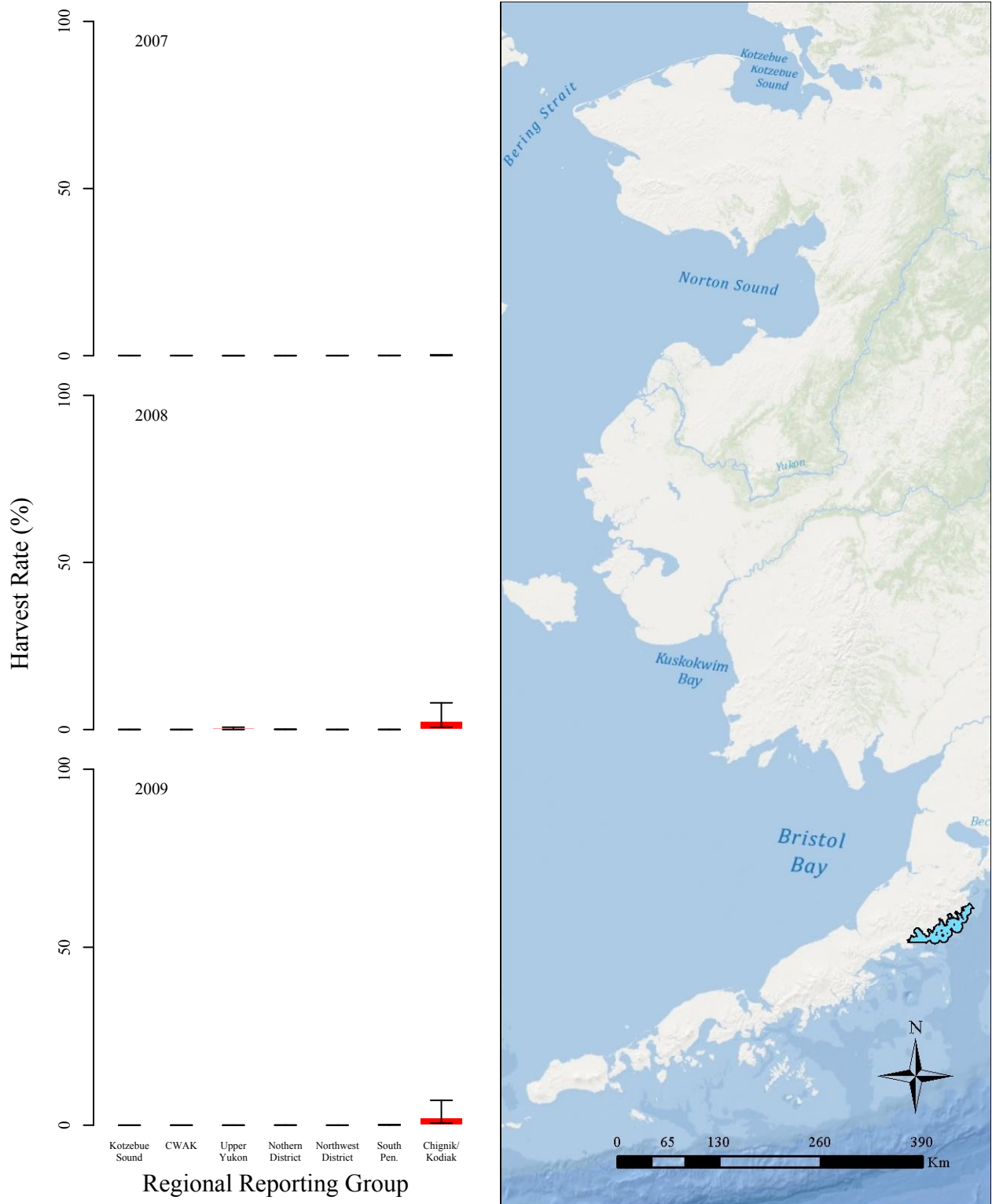


Figure 40.—Median reporting group harvest rate estimates (bars) and 90% credibility intervals (whiskers) by temporal stratum within years for chum salmon sampled from Eastern District, Commercial, Chignik Area, Westward Region (map) from 2007 to 2009 for the Western Alaska Salmon Stock Identification Program.

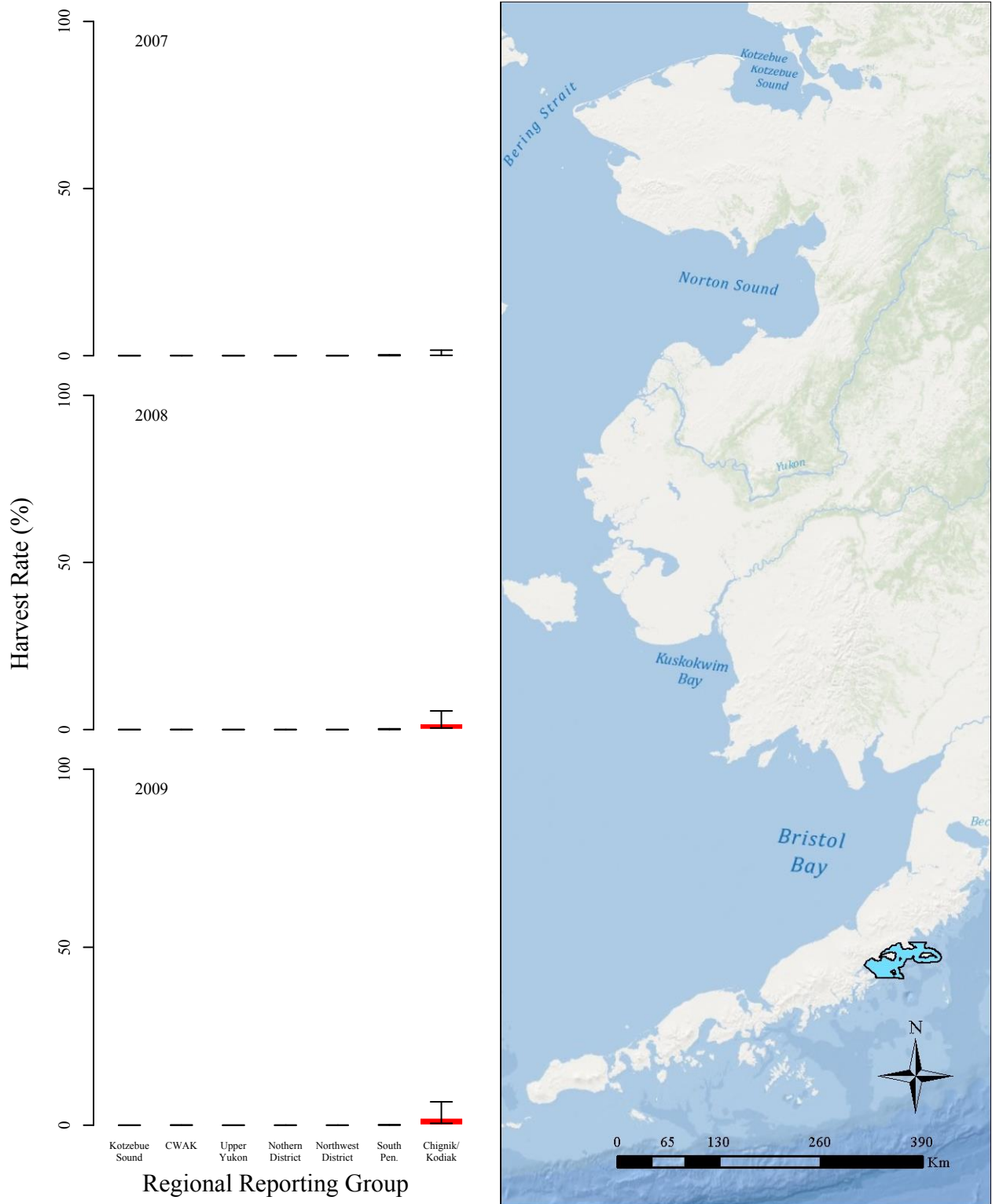


Figure 41.—Median reporting group harvest rate estimates (bars) and 90% credibility intervals (whiskers) by temporal stratum within years for chum salmon sampled from Central District, Commercial, Chignik Area, Westward Region (map) from 2007 to 2009 for the Western Alaska Salmon Stock Identification Program.

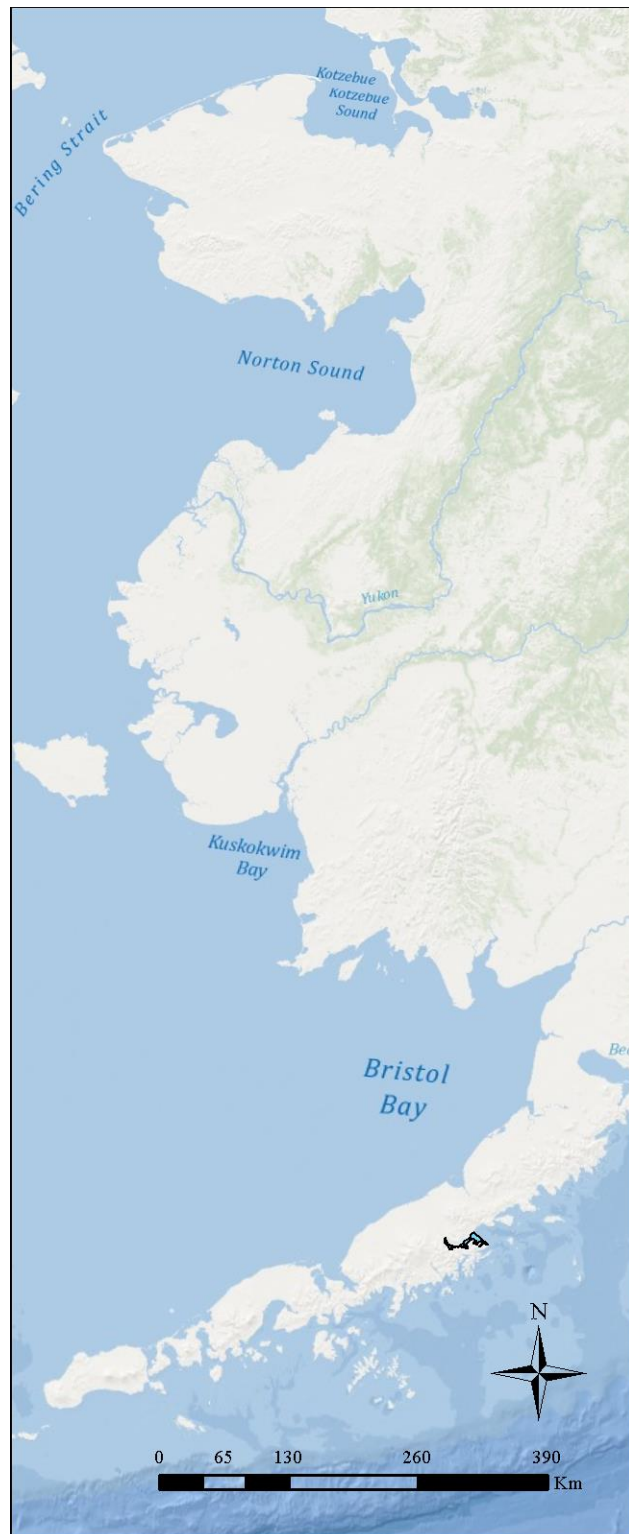
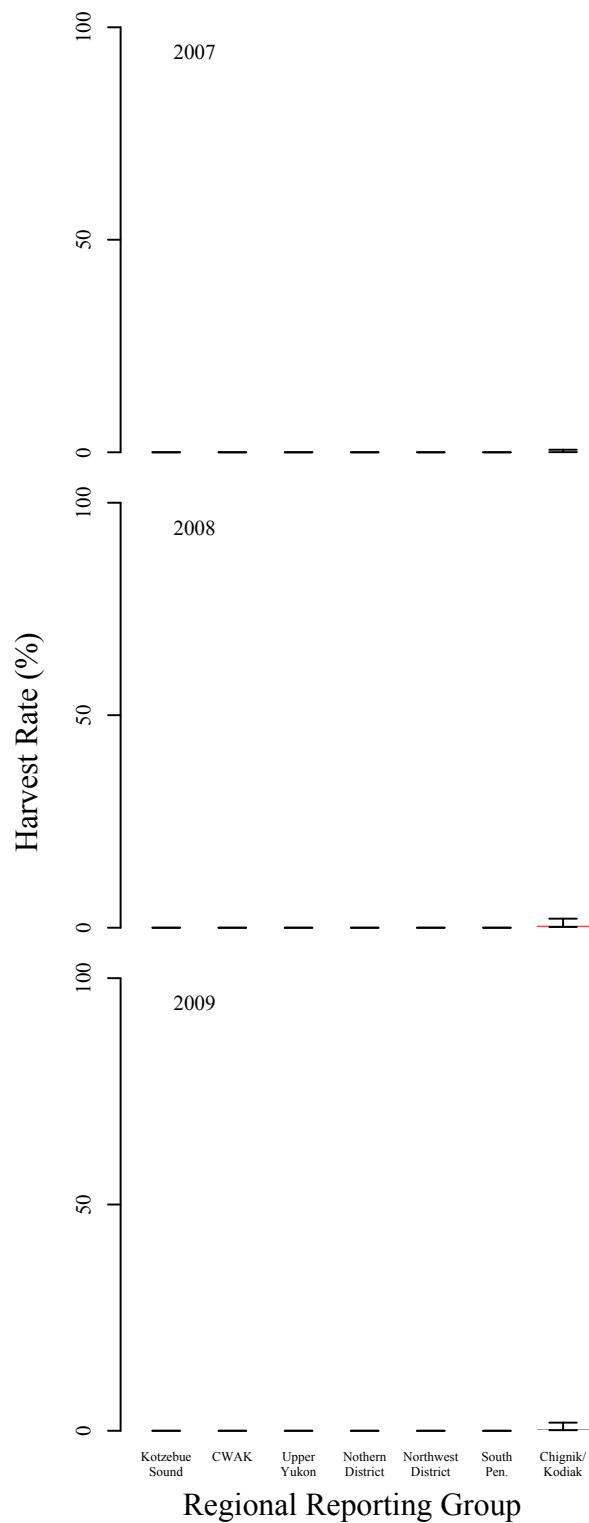


Figure 42.—Median reporting group harvest rate estimates (bars) and 90% credibility intervals (whiskers) by temporal stratum within years for chum salmon sampled from Chignik Bay District, Commercial, Chignik Area, Westward Region (map) from 2007 to 2009 for the Western Alaska Salmon Stock Identification Program.

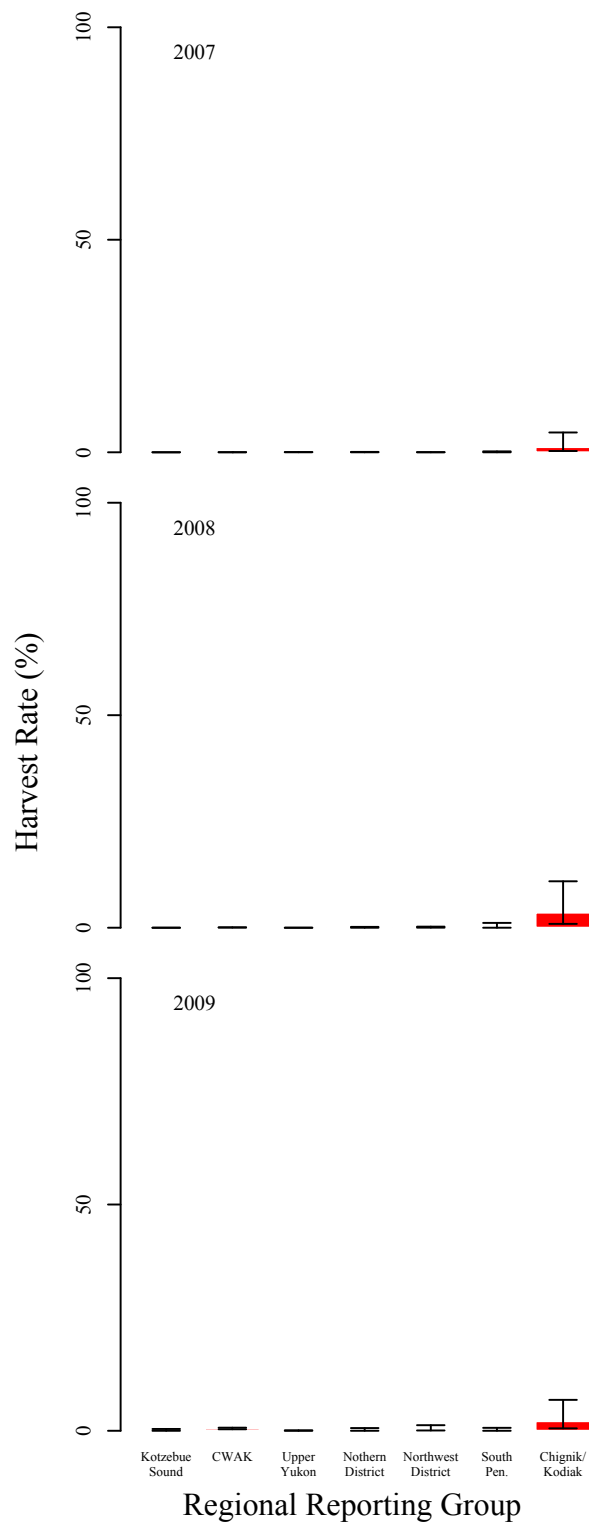


Figure 43.—Median reporting group harvest rate estimates (bars) and 90% credibility intervals (whiskers) by temporal stratum within years for chum salmon sampled from Western and Perryville districts, Commercial, Chignik Area, Westward Region (map) from 2007 to 2009 for the Western Alaska Salmon Stock Identification Program.

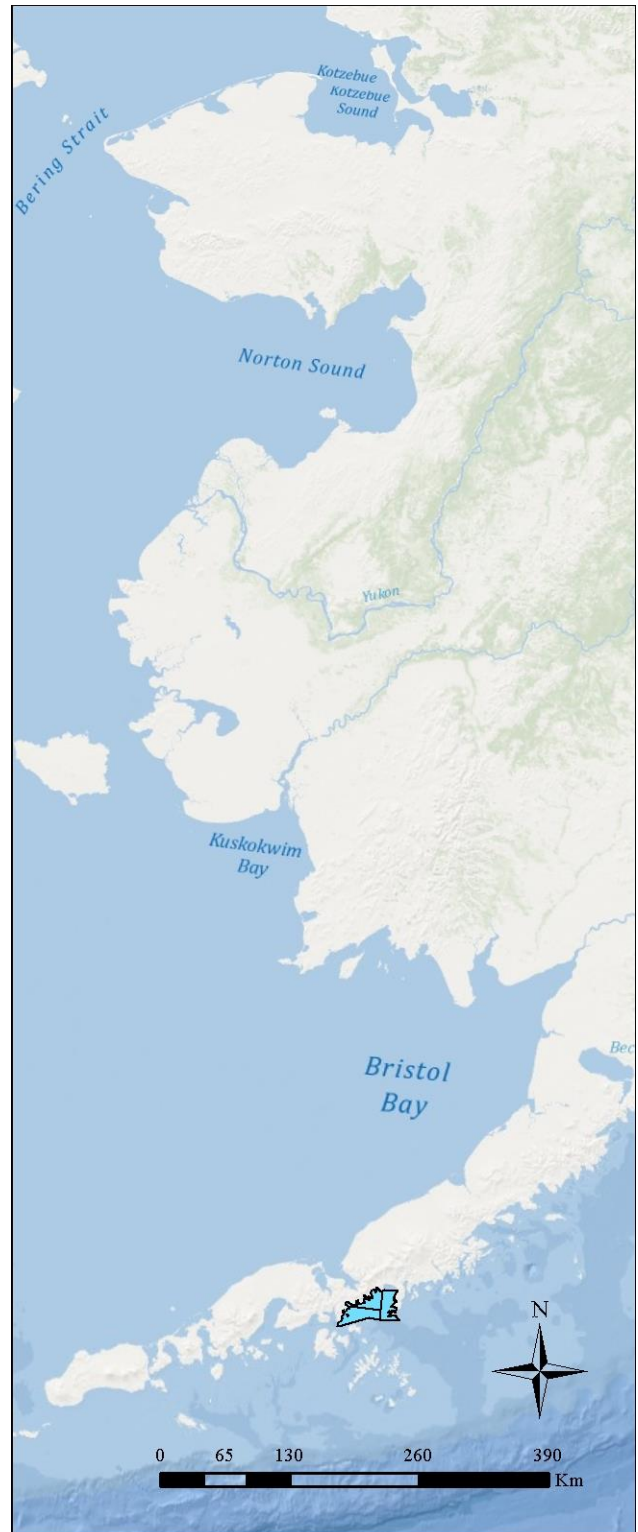
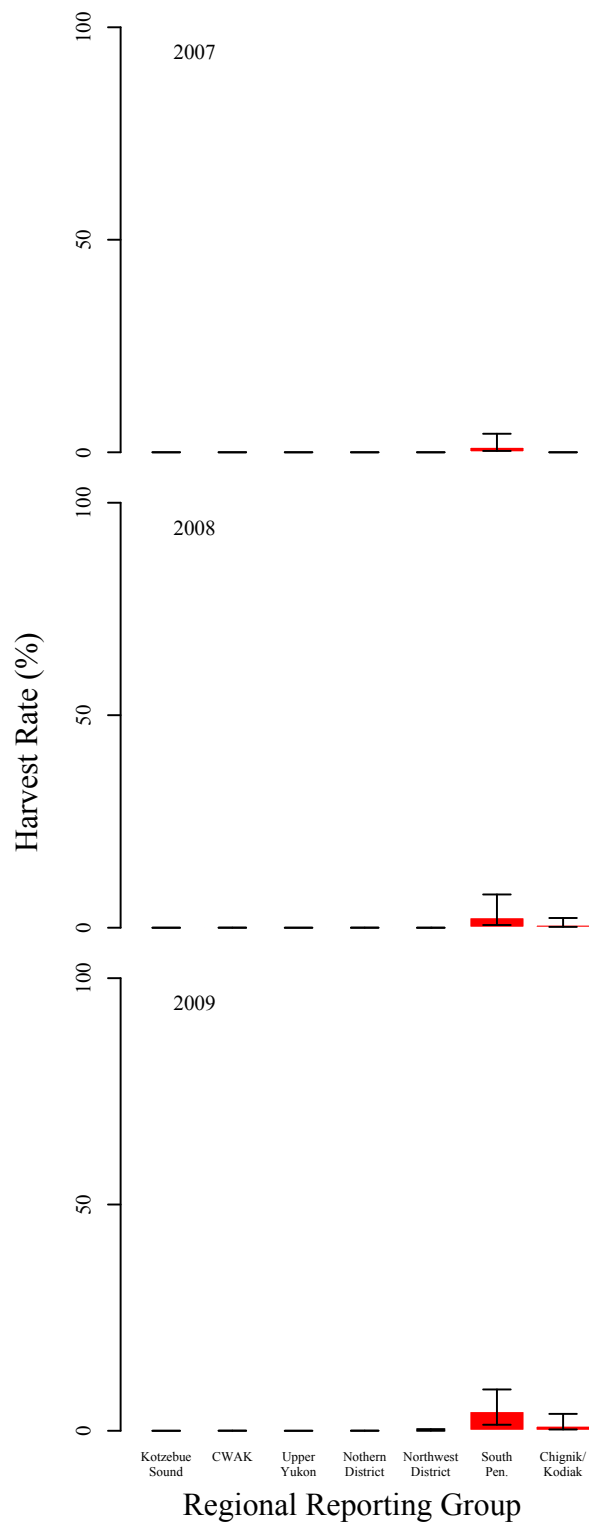


Figure 44.—Median reporting group harvest rate estimates (bars) and 90% credibility intervals (whiskers) by temporal stratum within years for chum salmon sampled from Southeastern District Mainland (SEDM) area, Commercial, Southeastern District, Alaska Peninsula Area, Westward Region (map) from 2007 to 2009 for the Western Alaska Salmon Stock Identification Program.

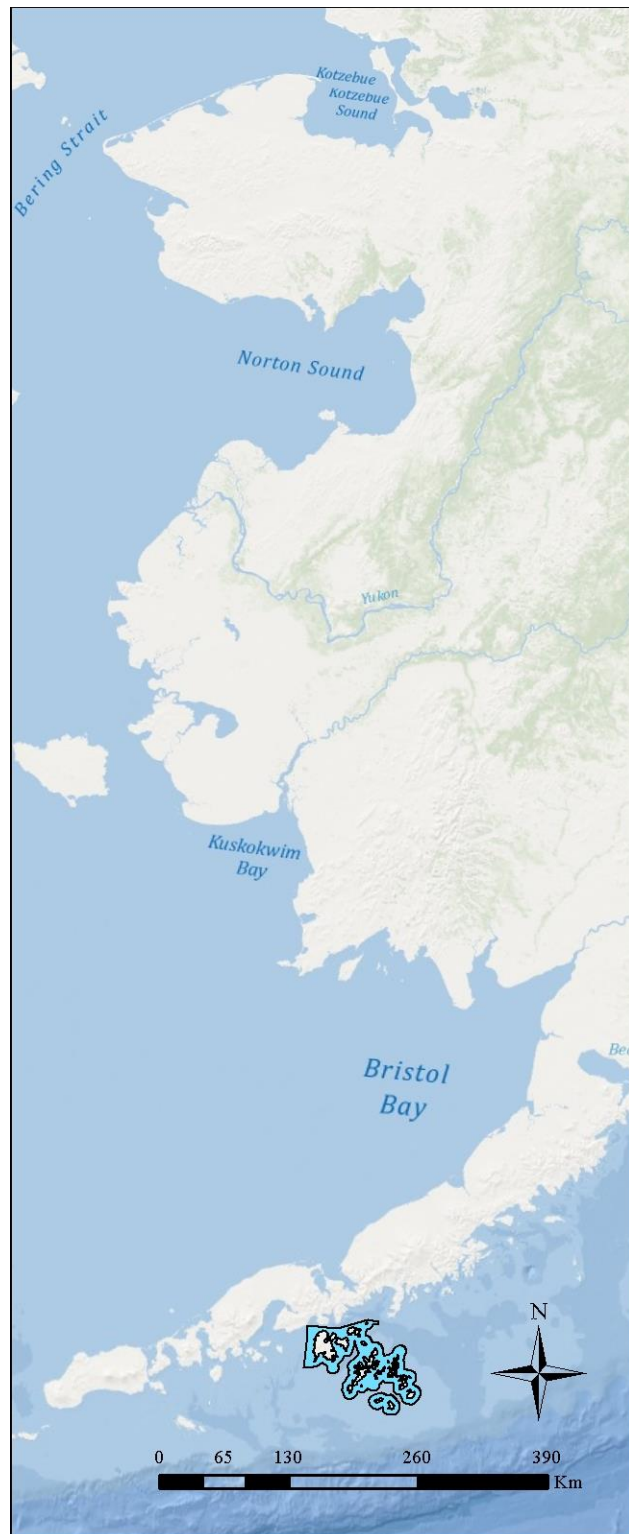
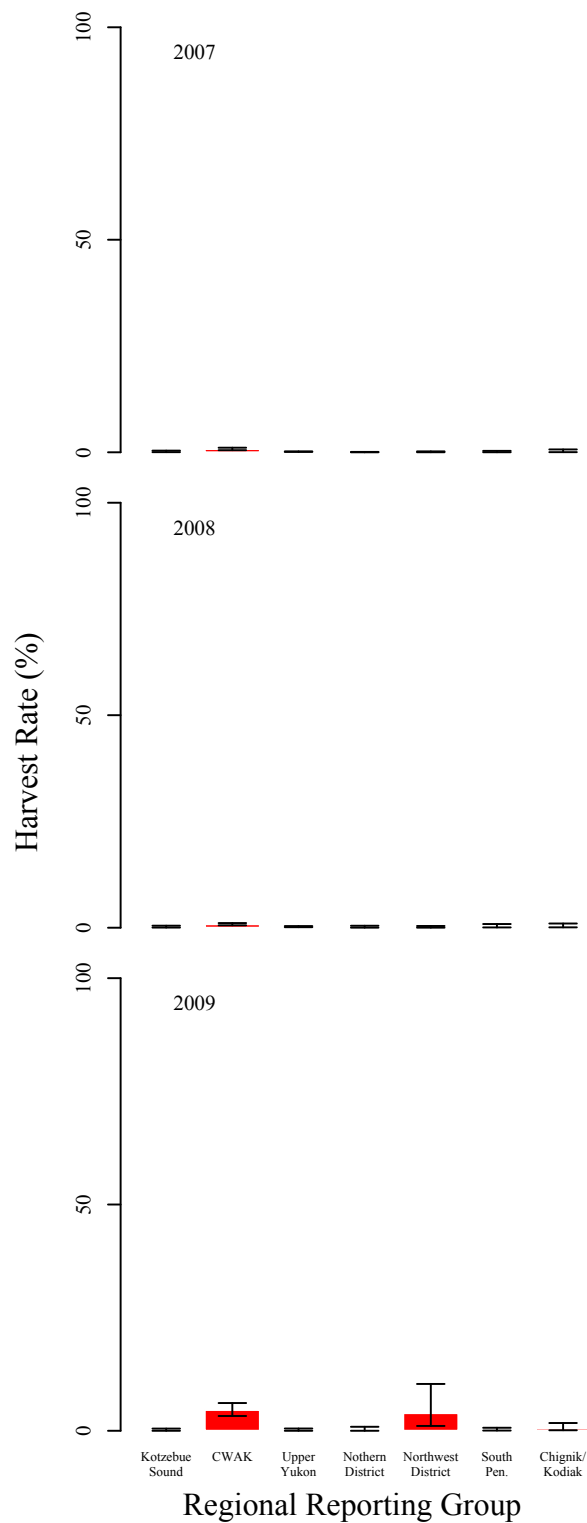


Figure 45.—Median reporting group harvest rate estimates (bars) and 90% credibility intervals (whiskers) by temporal stratum within years for chum salmon sampled from June, Shumagin Islands Section (statistical areas all 282-XX), Commercial, South Alaska Peninsula, Alaska Peninsula Area, Westward Region (map) from 2007 to 2009 for the Western Alaska Salmon Stock Identification Program.

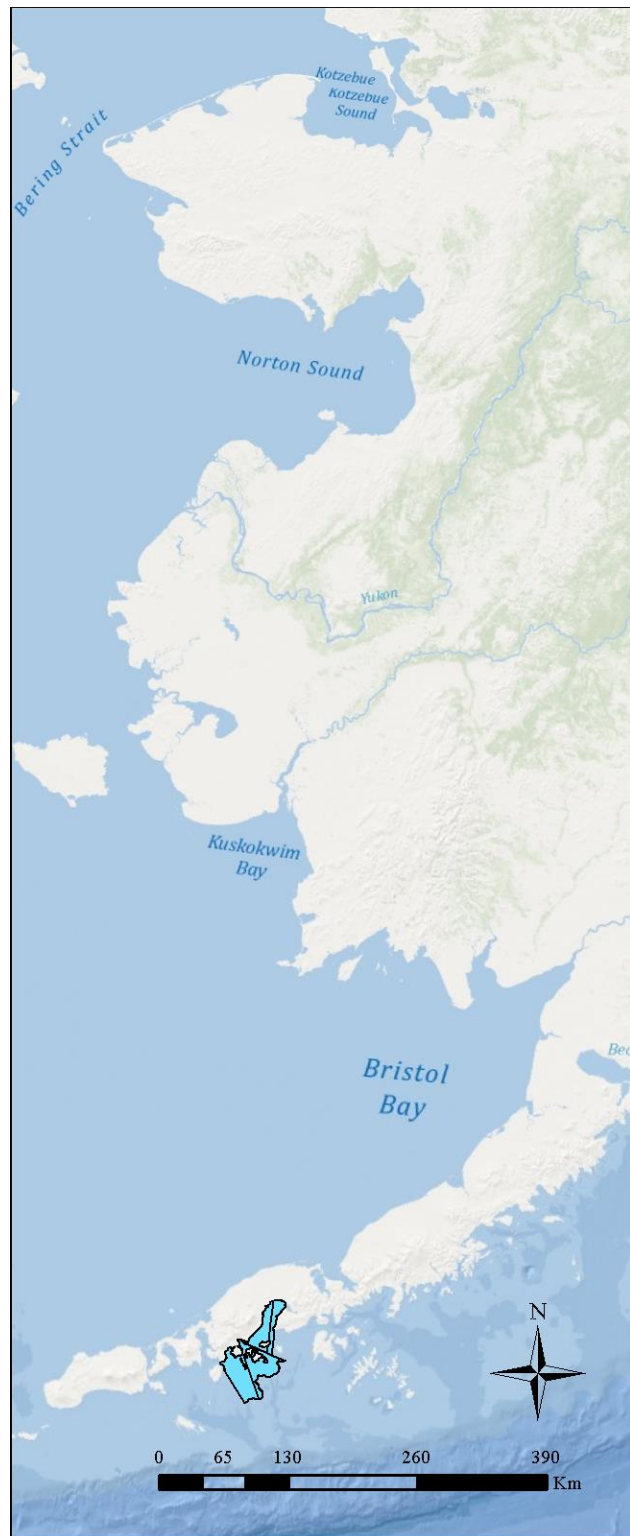
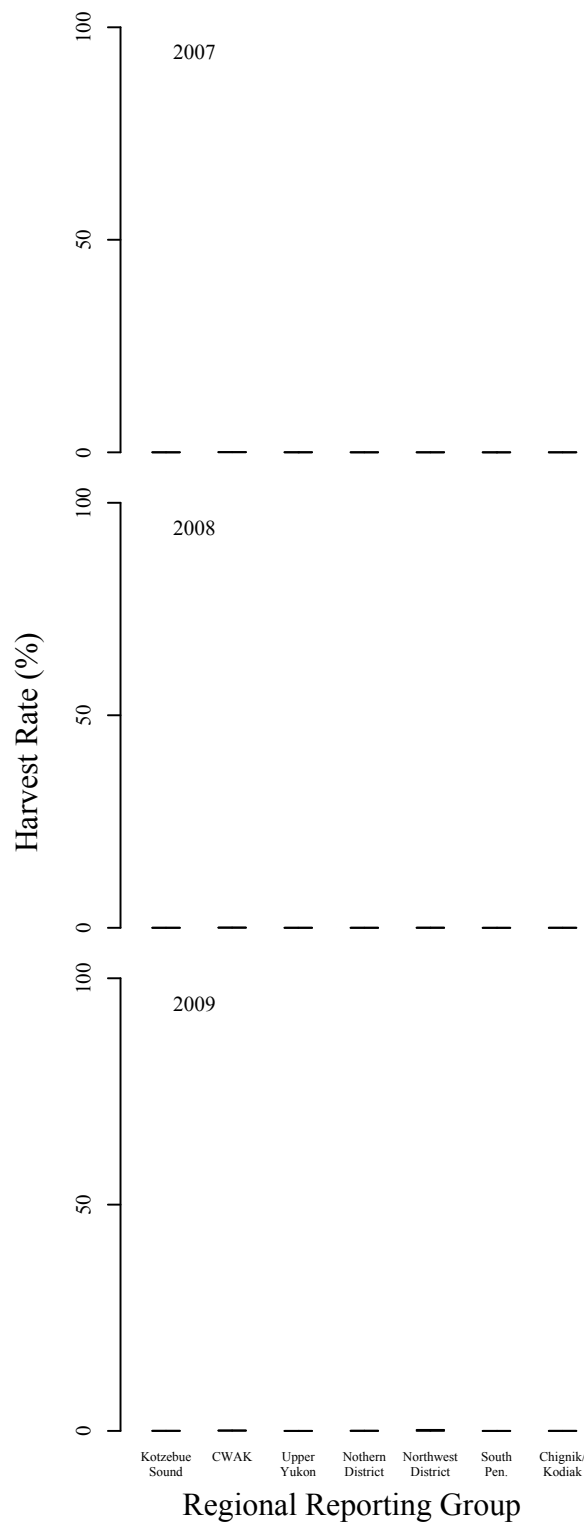


Figure 46.—Median reporting group harvest rate estimates (bars) and 90% credibility intervals (whiskers) by temporal stratum within years for chum salmon sampled from June, Dolgoi Island area (statistical areas all 283-XX, and 284-00 through 284-42), Commercial, South Alaska Peninsula, Alaska Peninsula Area, Westward Region (map) from 2007 to 2009 for the Western Alaska Salmon Stock Identification Program.

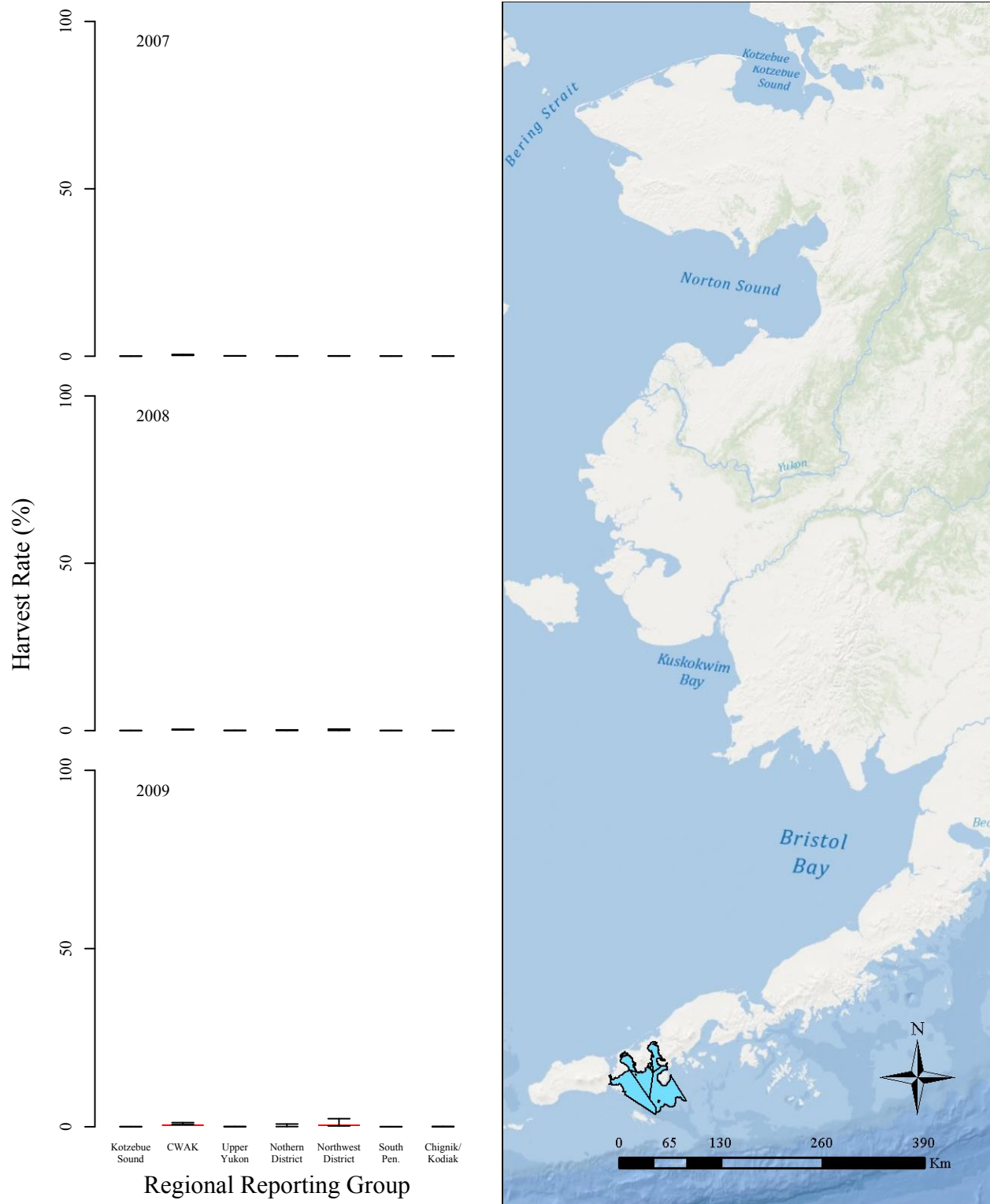


Figure 47.—Median reporting group harvest rate estimates (bars) and 90% credibility intervals (whiskers) by temporal stratum within years for chum salmon sampled from June, Ikatan area (statistical area 284-45 through 284-99), Commercial, South Alaska Peninsula, Alaska Peninsula Area, Westward Region (map) from 2007 to 2009 for the Western Alaska Salmon Stock Identification Program.

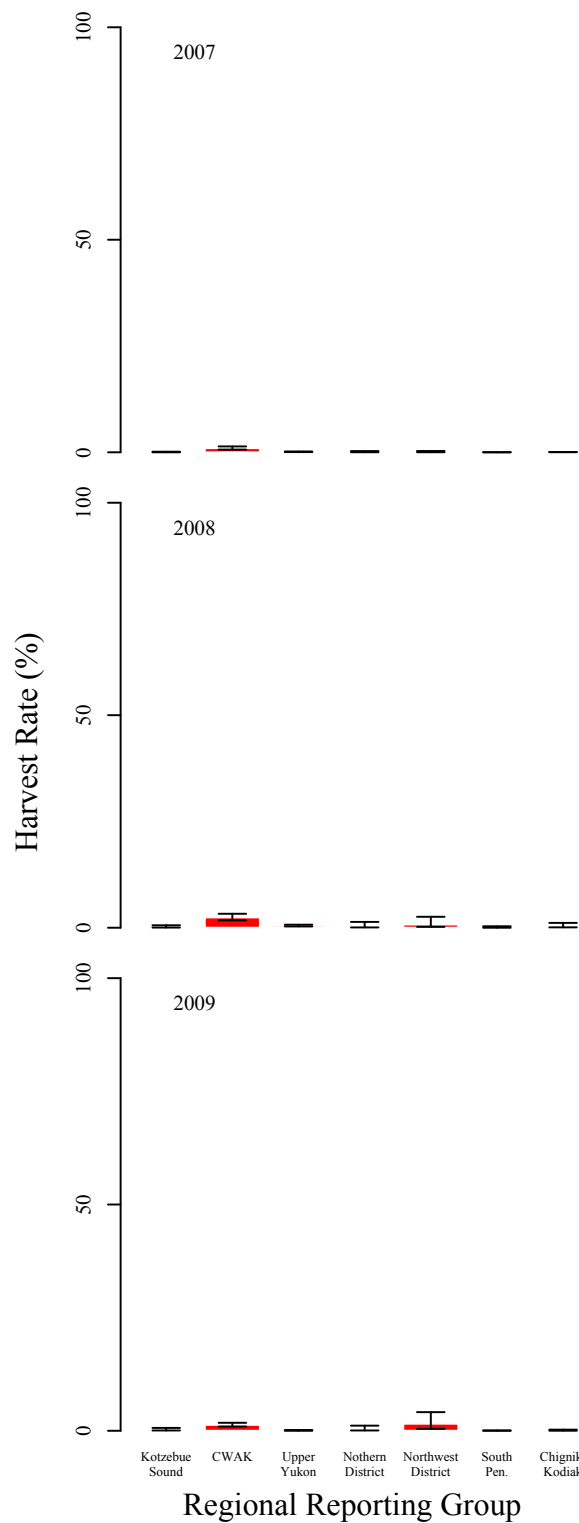


Figure 48.—Median reporting group harvest rate estimates (bars) and 90% credibility intervals (whiskers) by temporal stratum within years for chum salmon sampled from June, Unimak District, Commercial, South Alaska Peninsula, Alaska Peninsula Area, Westward Region (map) from 2007 to 2009 for the Western Alaska Salmon Stock Identification Program.

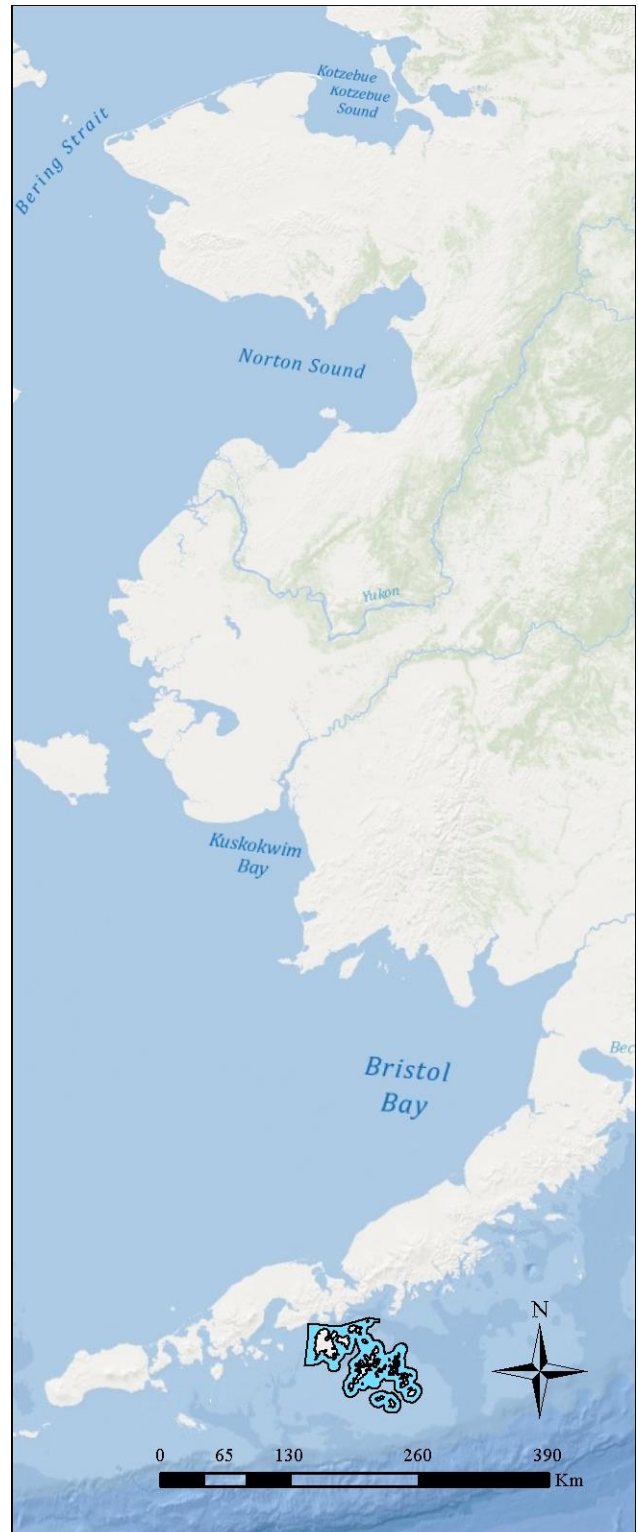
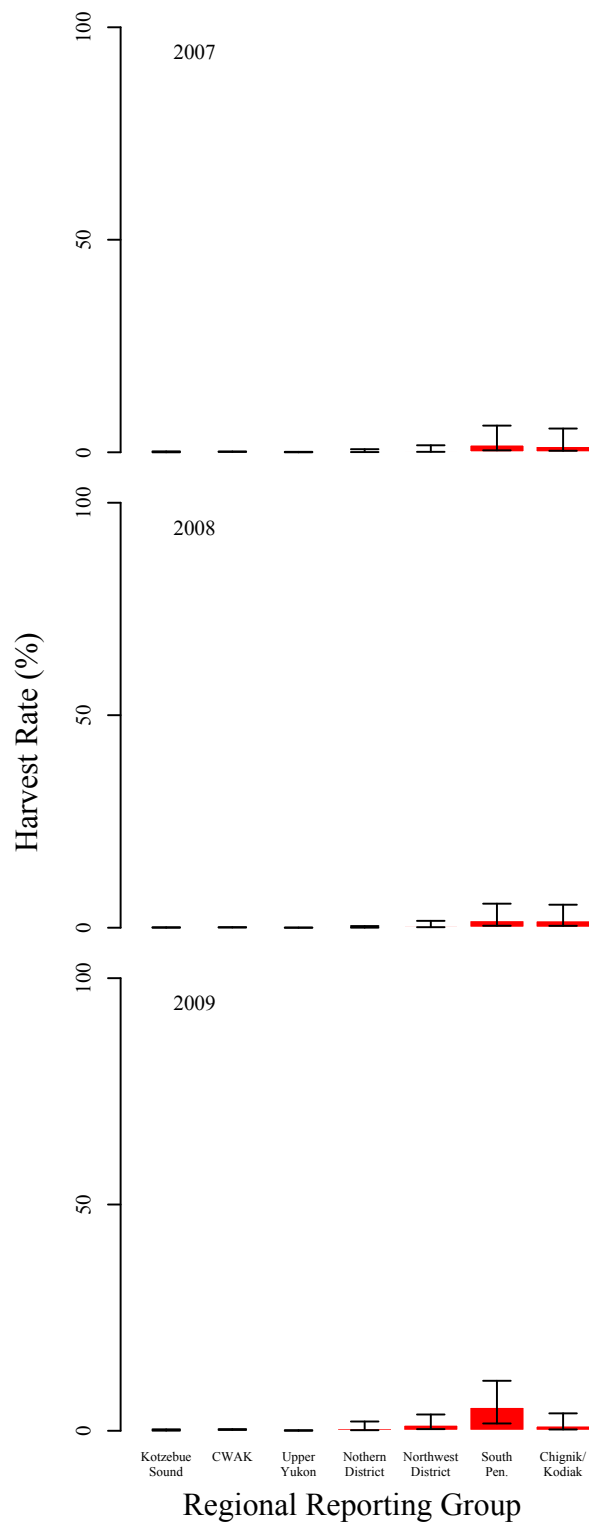


Figure 49.—Median reporting group harvest rate estimates (bars) and 90% credibility intervals (whiskers) by temporal stratum within years for chum salmon sampled from post-June, Shumagin Islands Section, Commercial, South Alaska Peninsula, Alaska Peninsula Area, Westward Region (map) from 2007 to 2009 for the Western Alaska Salmon Stock Identification Program.

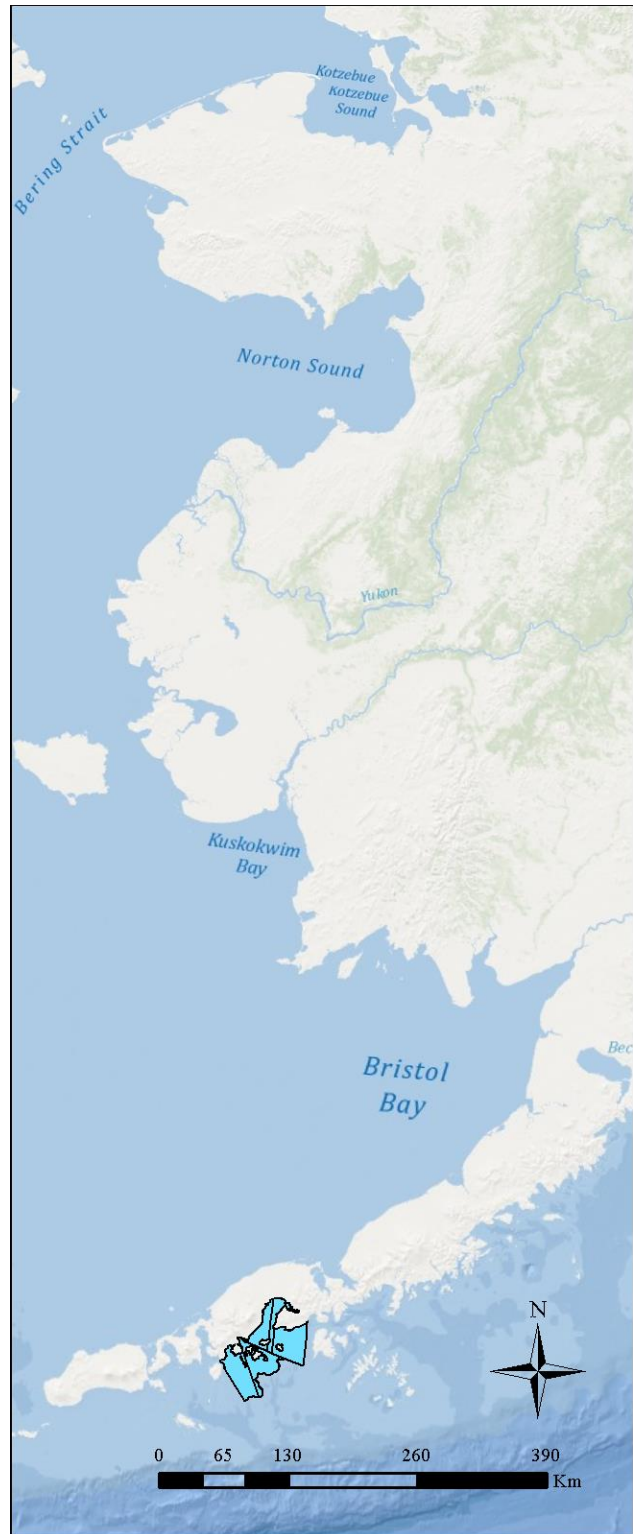
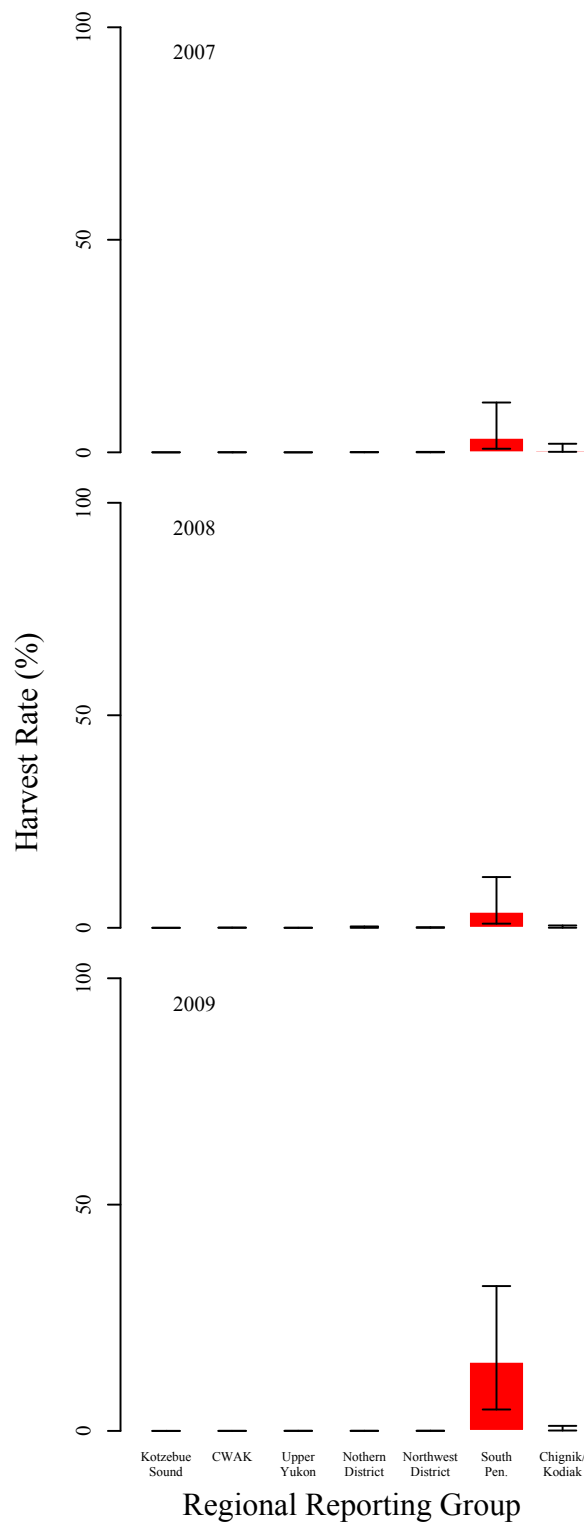


Figure 50.—Median reporting group harvest rate estimates (bars) and 90% credibility intervals (whiskers) by temporal stratum within years for chum salmon sampled from post-June, Dolgoi Island area (statistical areas all 283-XX, and 284-00 through 284-42), Commercial, South Alaska Peninsula, Alaska Peninsula Area, Westward Region (map) from 2007 to 2009 for the Western Alaska Salmon Stock Identification Program.

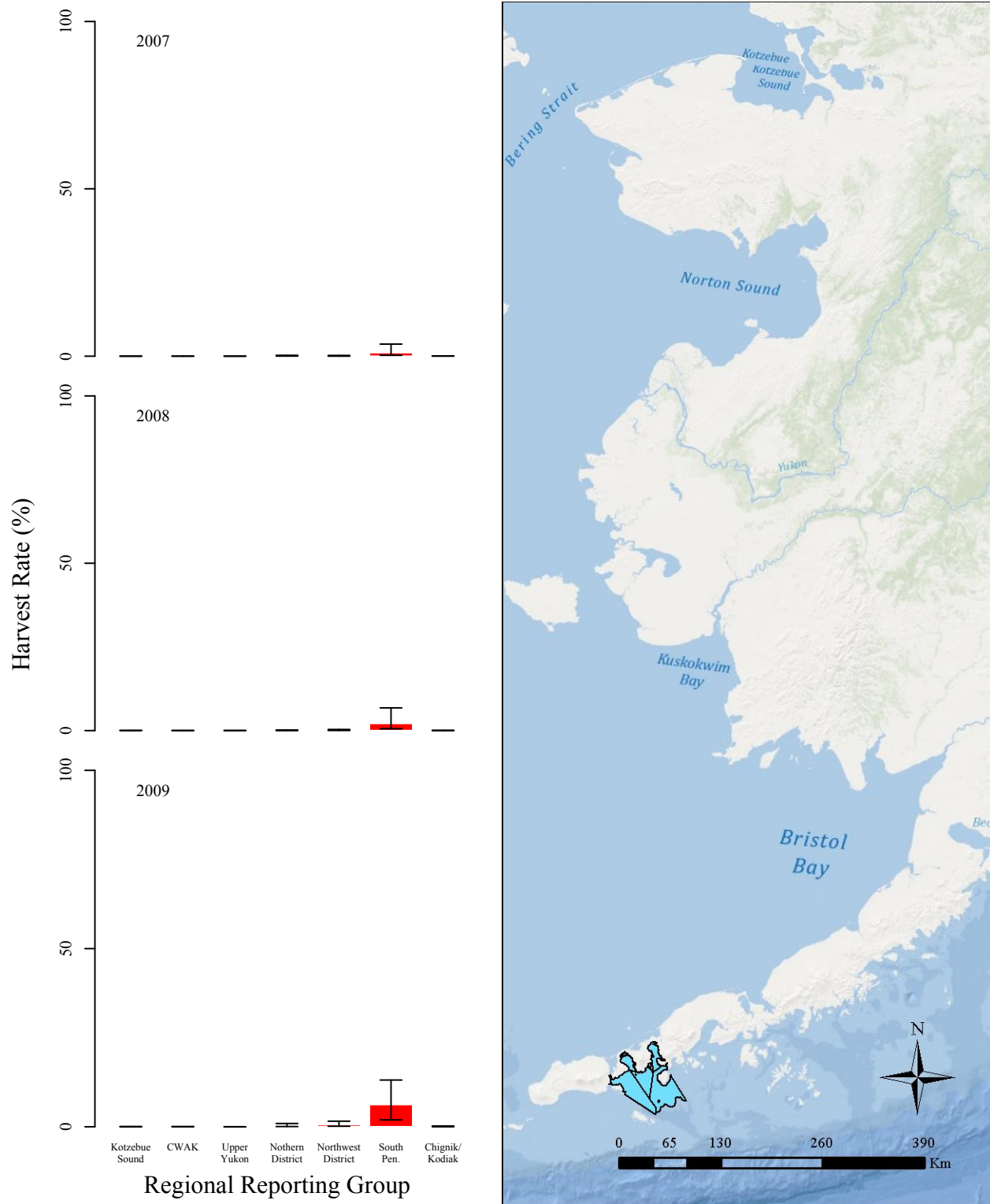


Figure 51.—Median reporting group harvest rate estimates (bars) and 90% credibility intervals (whiskers) by temporal stratum within years for chum salmon sampled from post-June, Ikatan area (statistical area 284-45 through 284-99), Commercial, South Alaska Peninsula, Alaska Peninsula Area, Westward Region (map) from 2007 to 2009 for the Western Alaska Salmon Stock Identification Program.

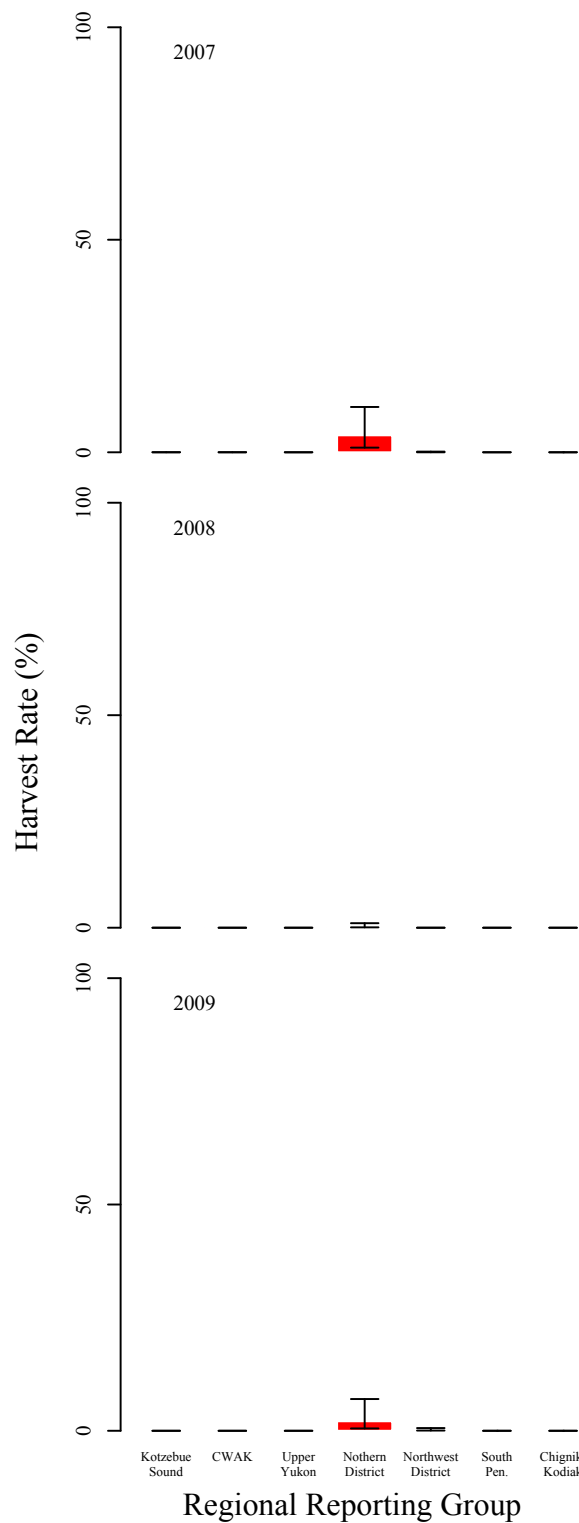


Figure 52.—Median reporting group harvest rate estimates (bars) and 90% credibility intervals (whiskers) by temporal stratum within years for chum salmon sampled from Bear River Section, Commercial, Northern District, Alaska Peninsula Area, Westward Region (map) from 2007 to 2009 for the Western Alaska Salmon Stock Identification Program.

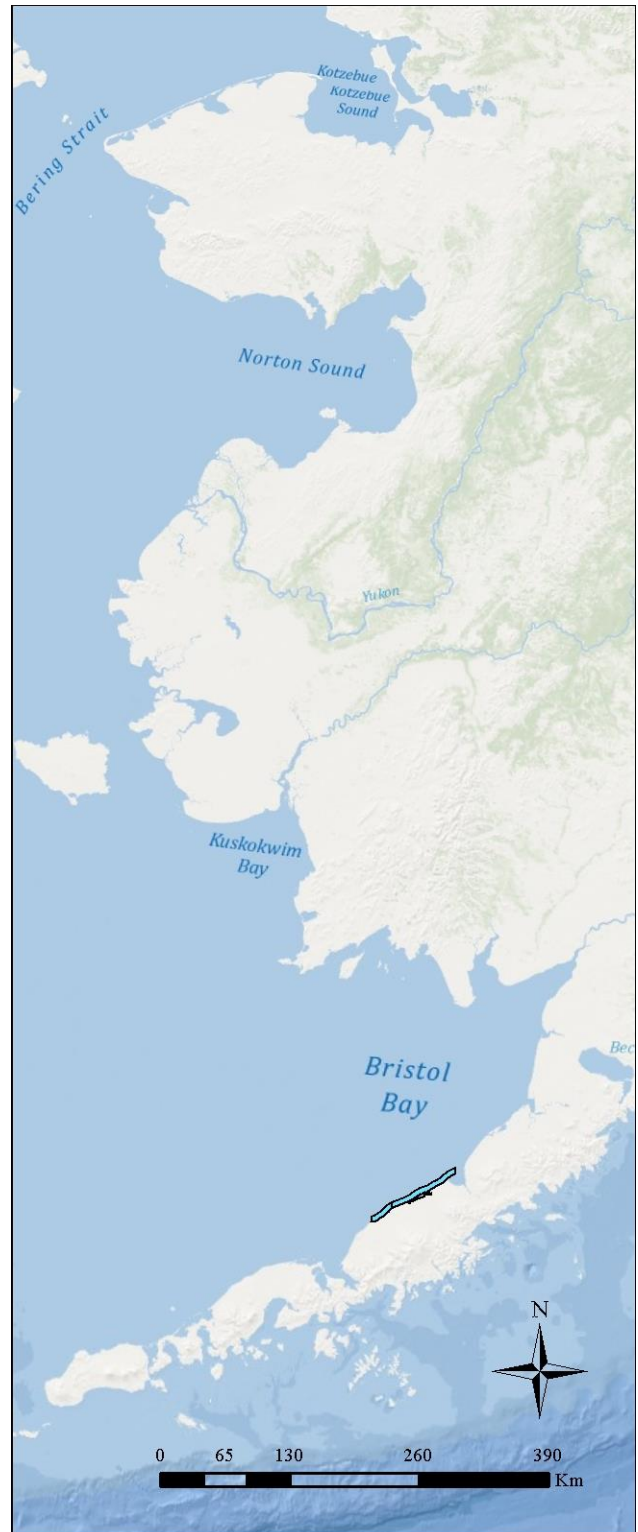
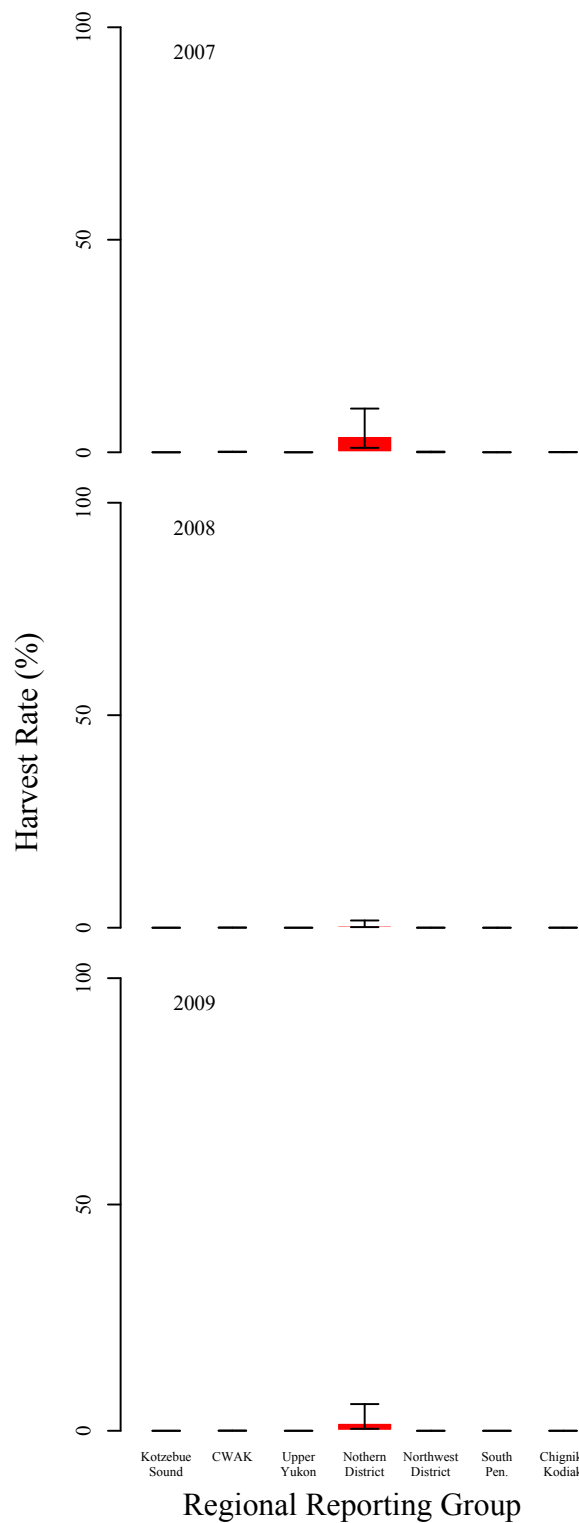


Figure 53.—Median reporting group harvest rate estimates (bars) and 90% credibility intervals (whiskers) by temporal stratum within years for chum salmon sampled from Three Hills and Ilnik sections, Commercial, Northern District, Alaska Peninsula Area, Westward Region (map) from 2007 to 2009 for the Western Alaska Salmon Stock Identification Program.

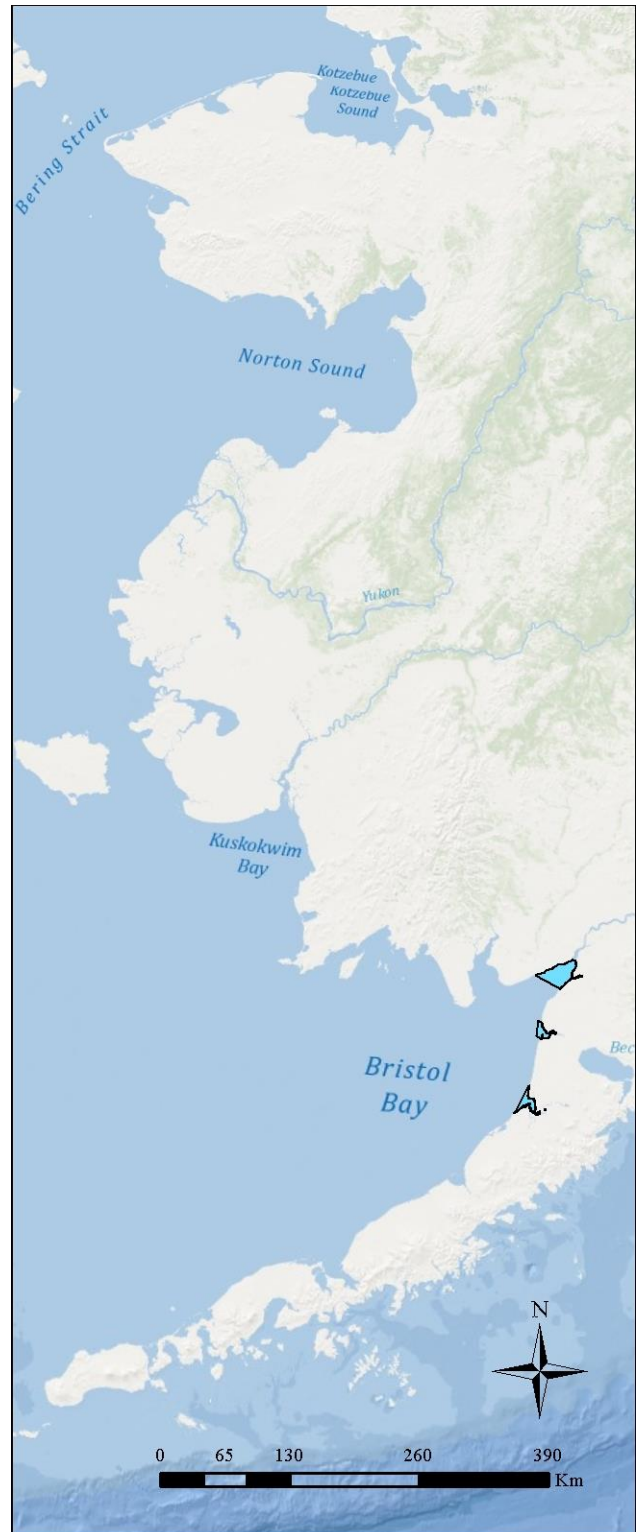
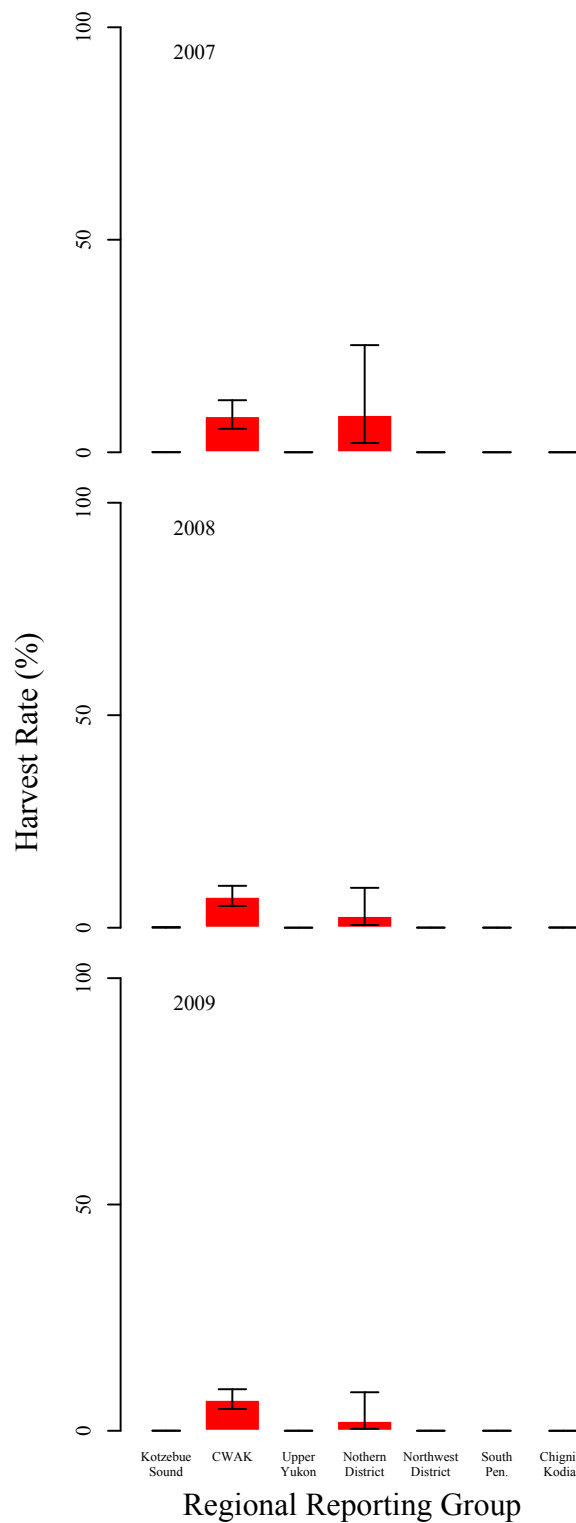


Figure 54.—Median reporting group harvest rate estimates (bars) and 90% credibility intervals (whiskers) by temporal stratum within years for chum salmon sampled from Eastside districts (Ugashik, Egegik, and Naknek-Kvichak districts), Commercial, Bristol Bay Area, Central Region (map) from 2007 to 2009 for the Western Alaska Salmon Stock Identification Program.

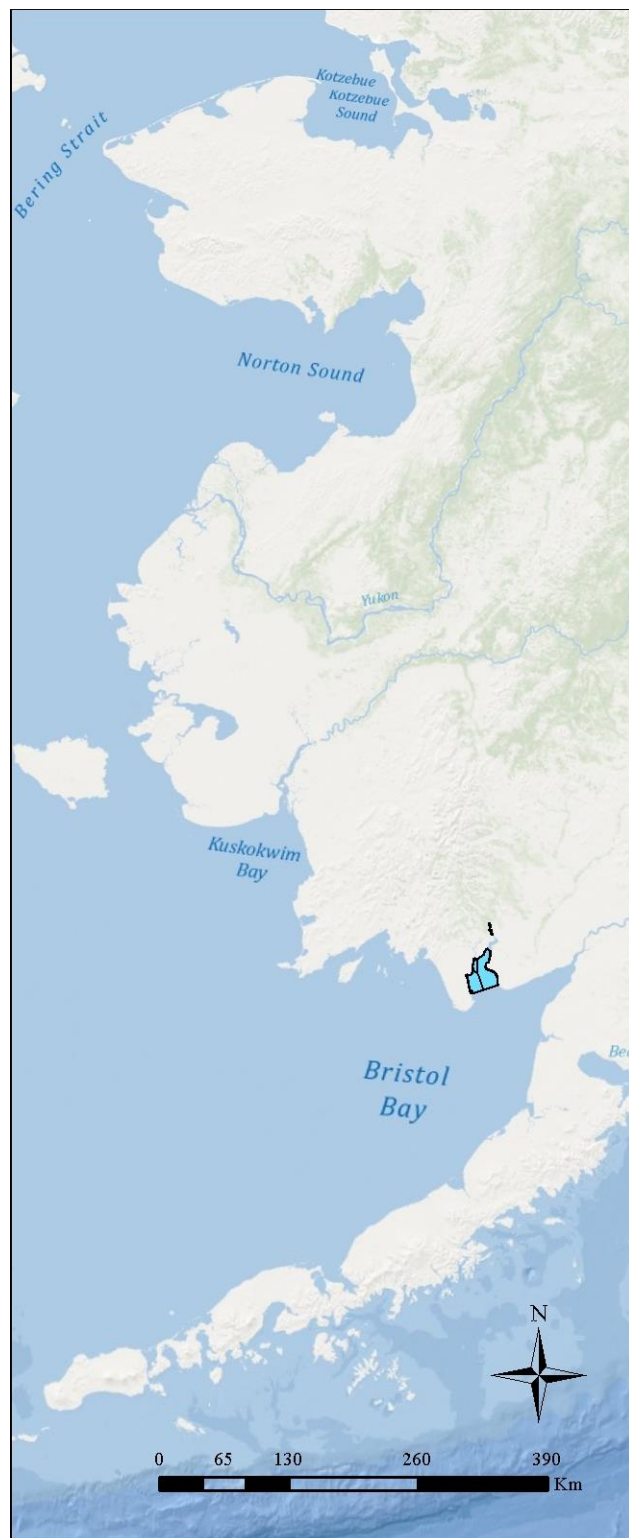
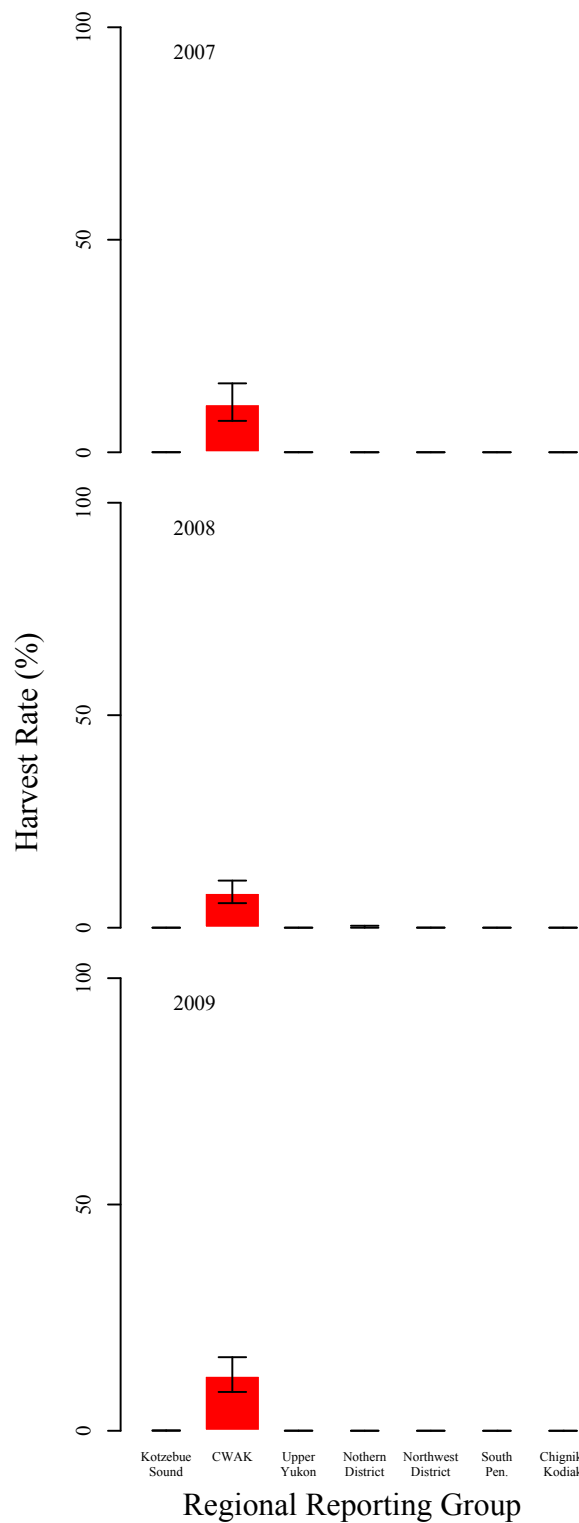


Figure 55.—Median reporting group harvest rate estimates (bars) and 90% credibility intervals (whiskers) by temporal stratum within years for chum salmon sampled from Nushagak District, Commercial, Bristol Bay Area, Central Region (map) from 2007 to 2009 for the Western Alaska Salmon Stock Identification Program.

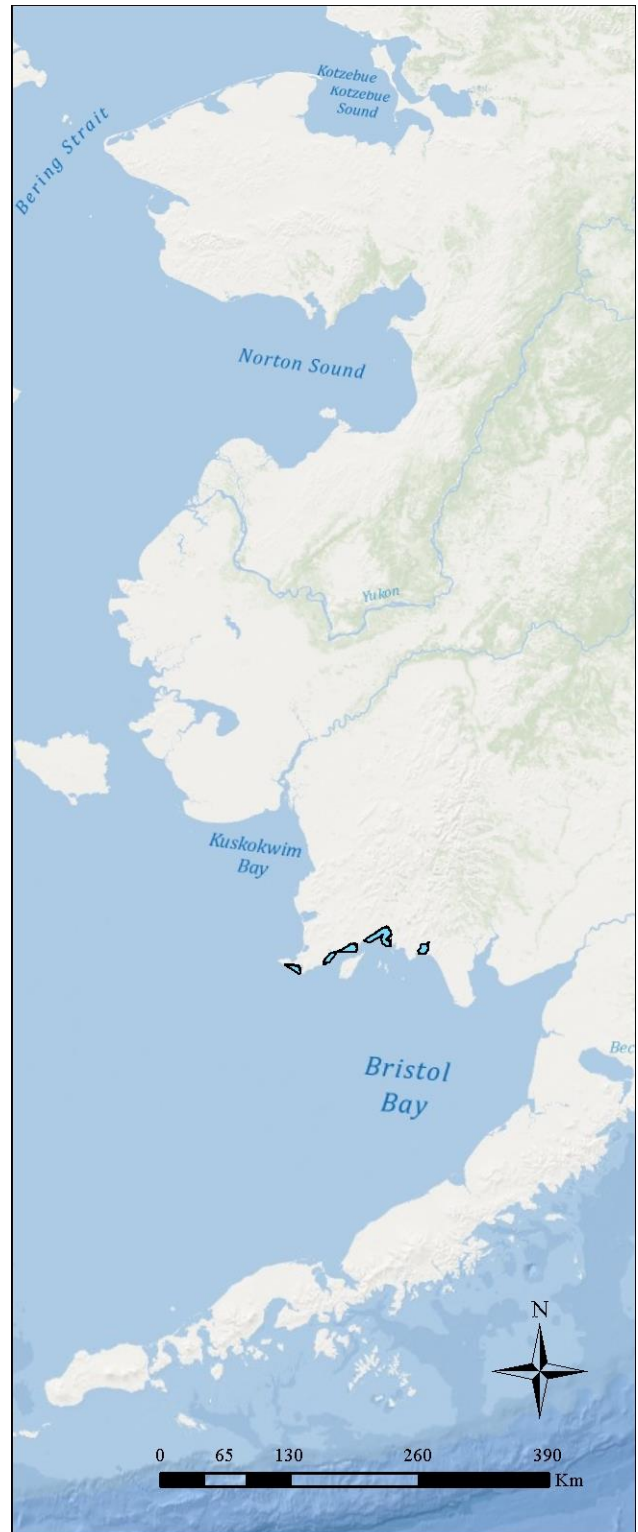
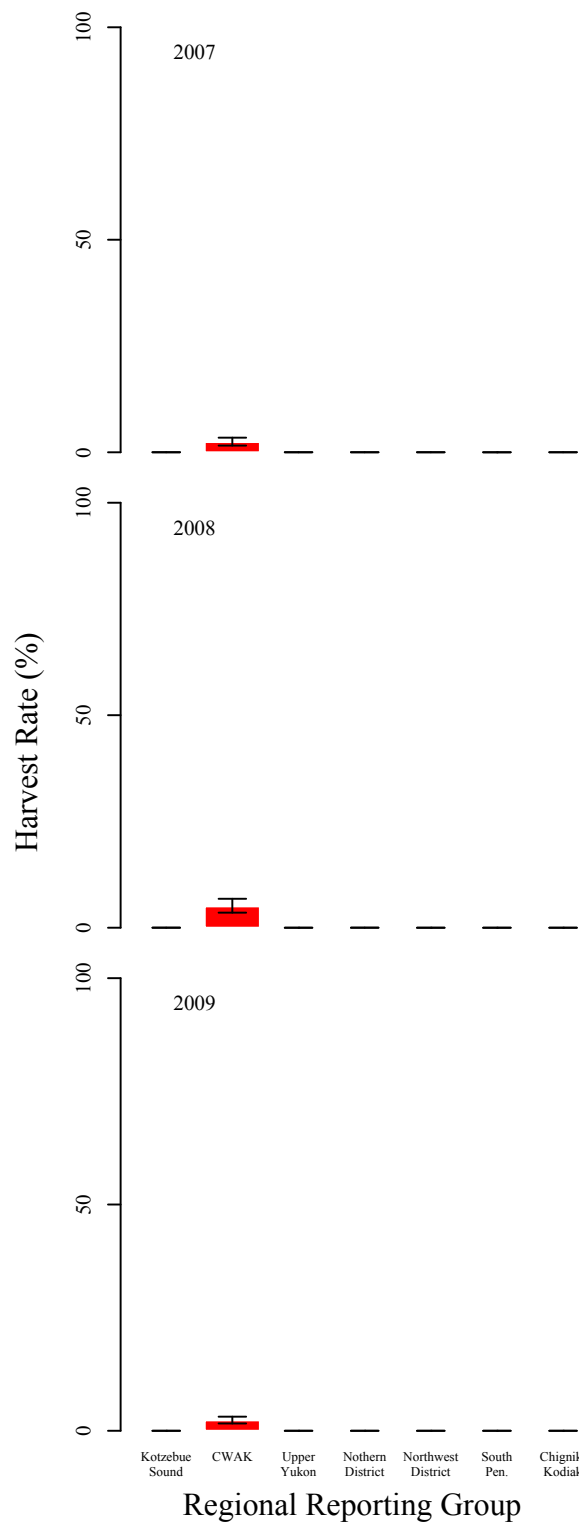


Figure 56.—Median reporting group harvest rate estimates (bars) and 90% credibility intervals (whiskers) by temporal stratum within years for chum salmon sampled from Togiak District, Commercial, Bristol Bay Area, Central Region (map) from 2007 to 2009 for the Western Alaska Salmon Stock Identification Program.

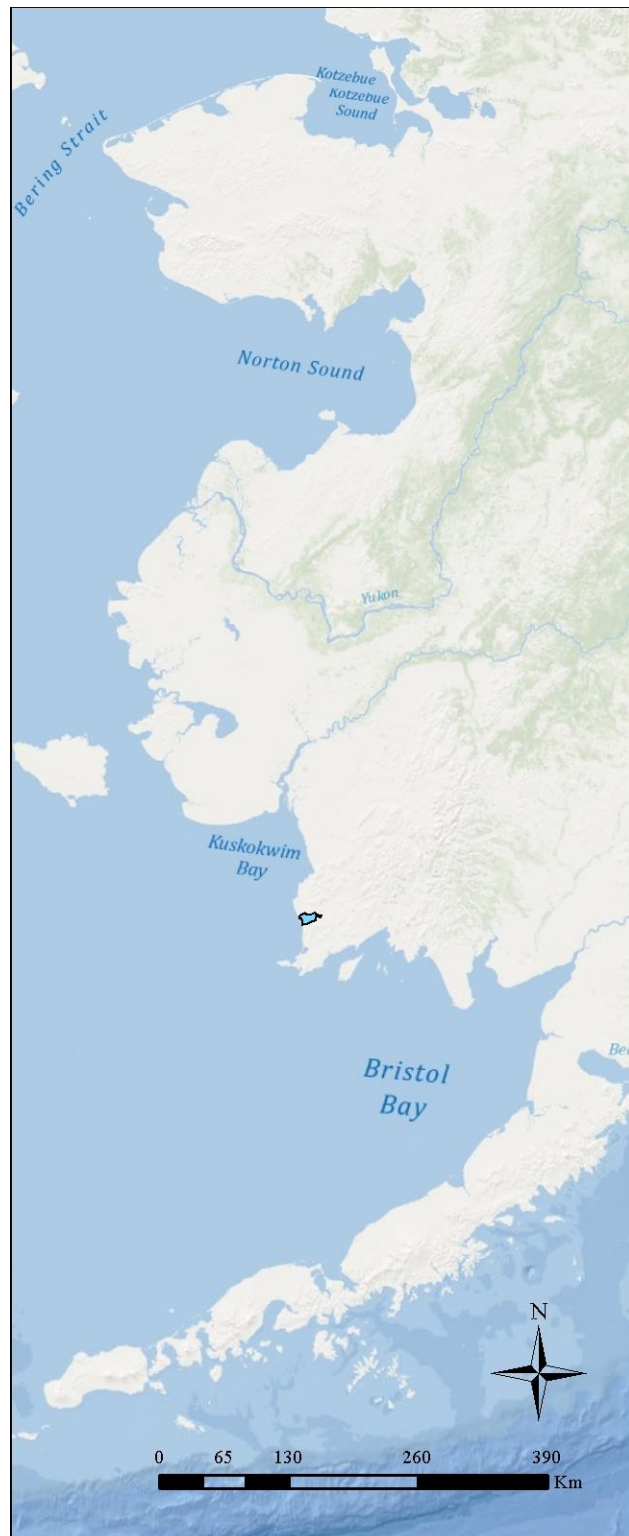
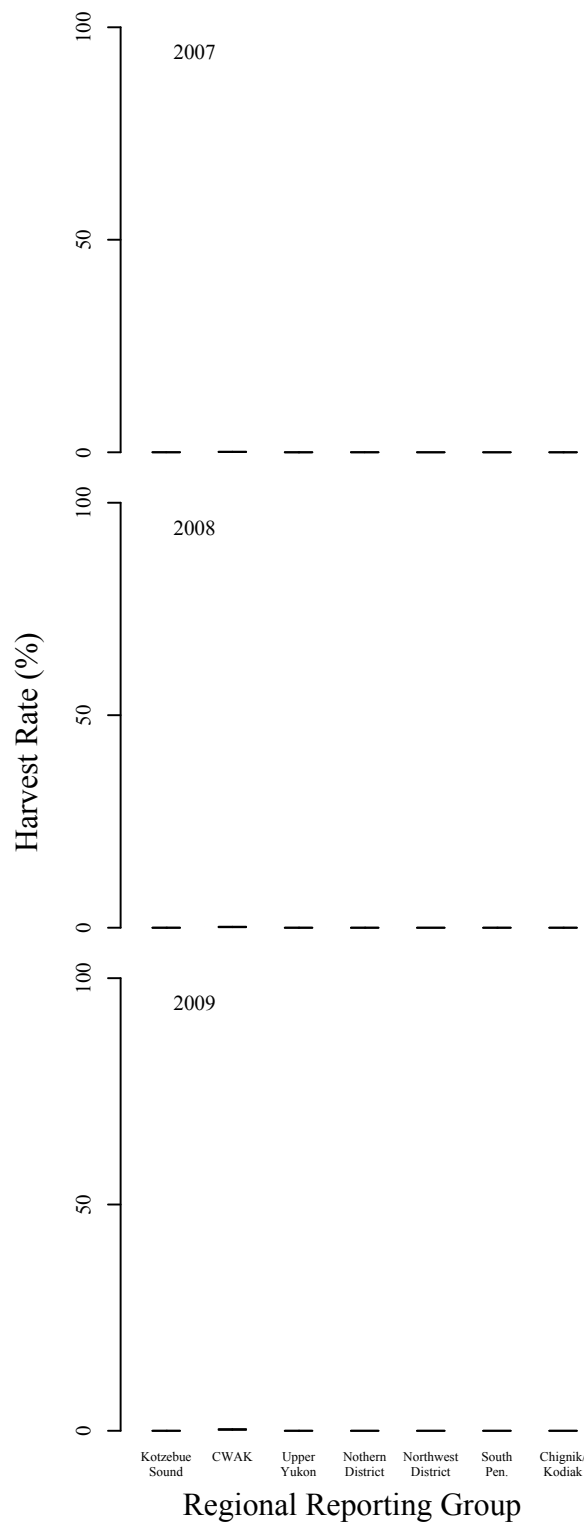


Figure 57.—Median reporting group harvest rate estimates (bars) and 90% credibility intervals (whiskers) by temporal stratum within years for chum salmon sampled from District 5, Commercial, Kuskokwim Area, Arctic-Yukon-Kuskokwim Region (map) from 2007 to 2009 for the Western Alaska Salmon Stock Identification Program.

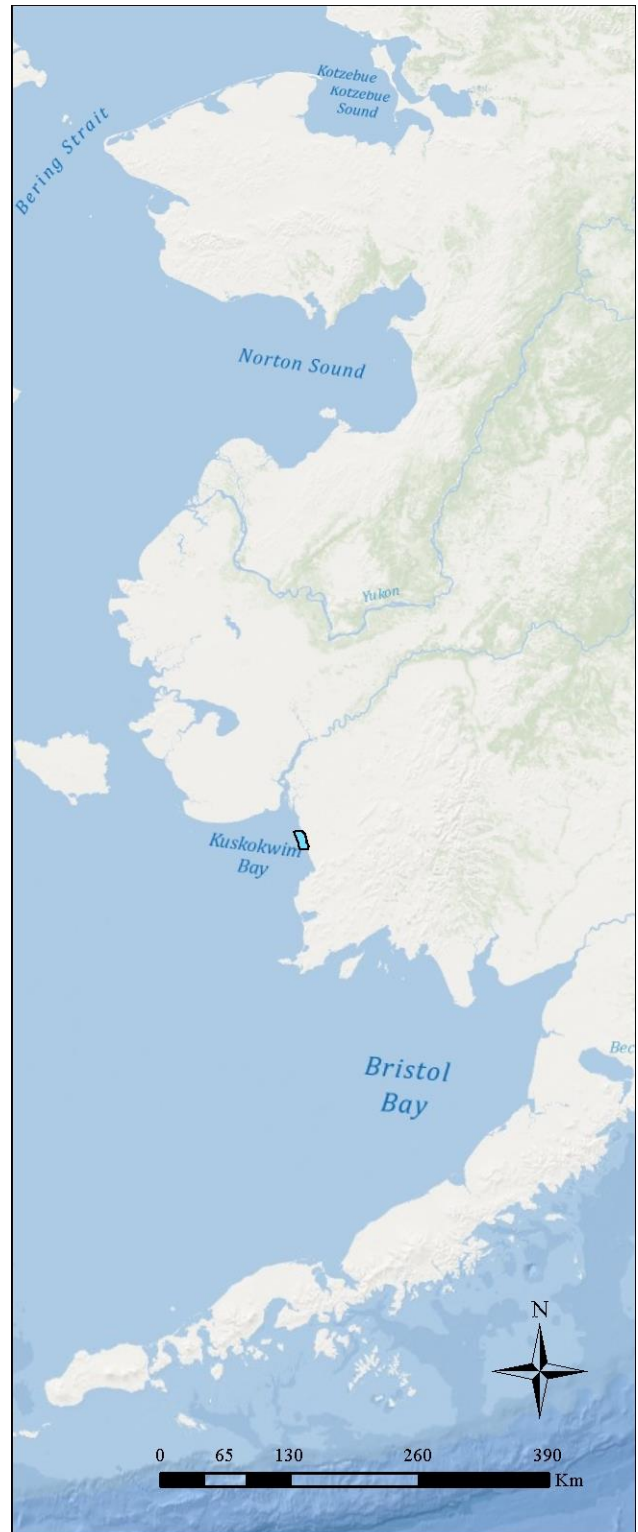
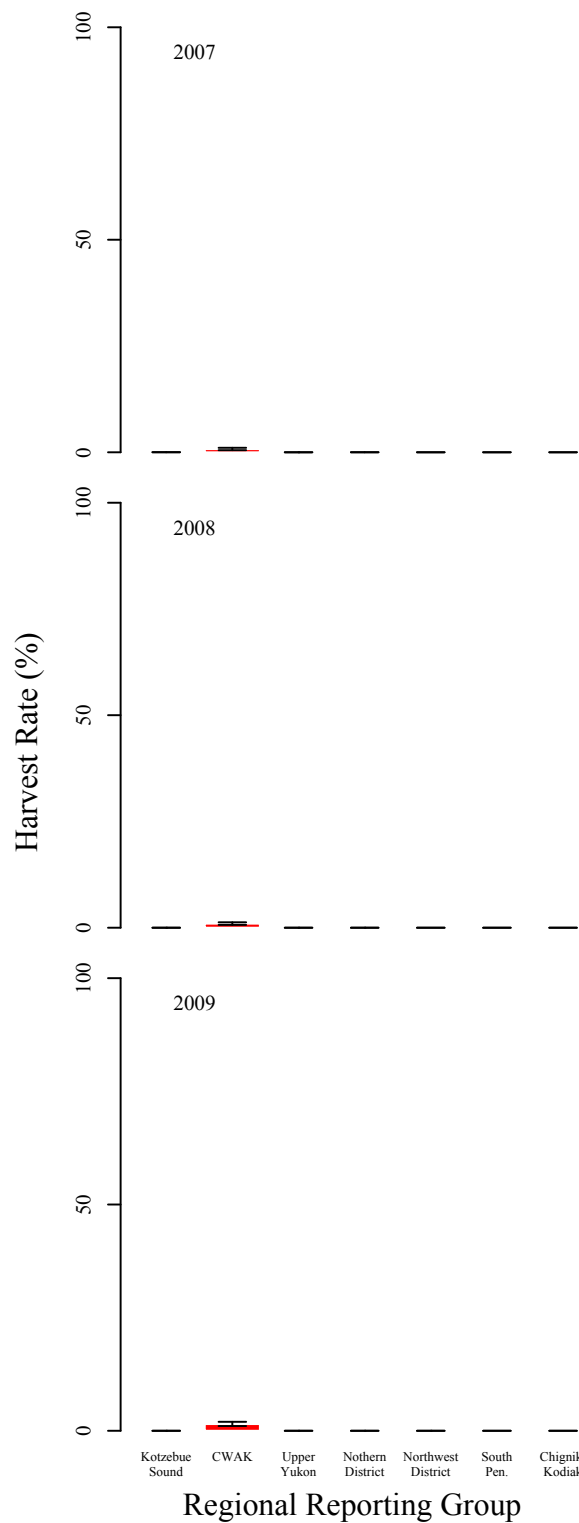


Figure 58.—Median reporting group harvest rate estimates (bars) and 90% credibility intervals (whiskers) by temporal stratum within years for chum salmon sampled from District 4, Commercial, Kuskokwim Area, Arctic-Yukon-Kuskokwim Region (map) from 2007 to 2009 for the Western Alaska Salmon Stock Identification Program.

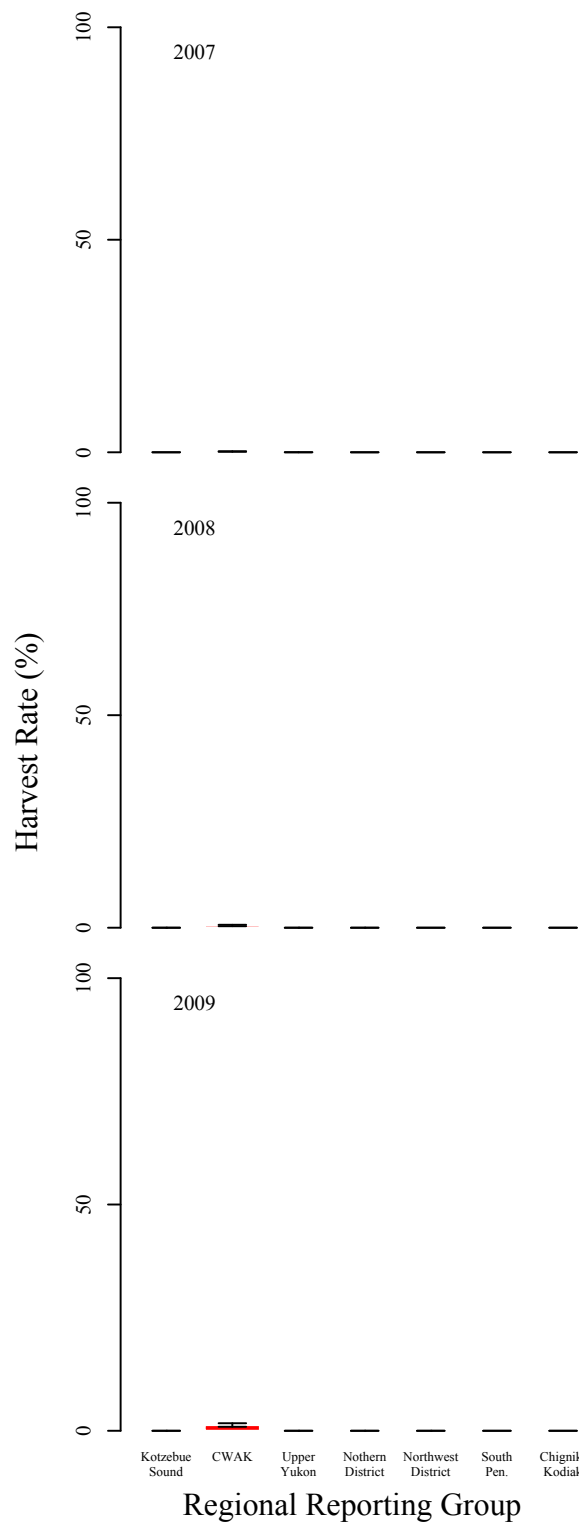


Figure 59.—Median reporting group harvest rate estimates (bars) and 90% credibility intervals (whiskers) by temporal stratum within years for chum salmon sampled from District 1, Commercial, Kuskokwim Area, Arctic-Yukon-Kuskokwim Region (map) from 2007 to 2009 for the Western Alaska Salmon Stock Identification Program.

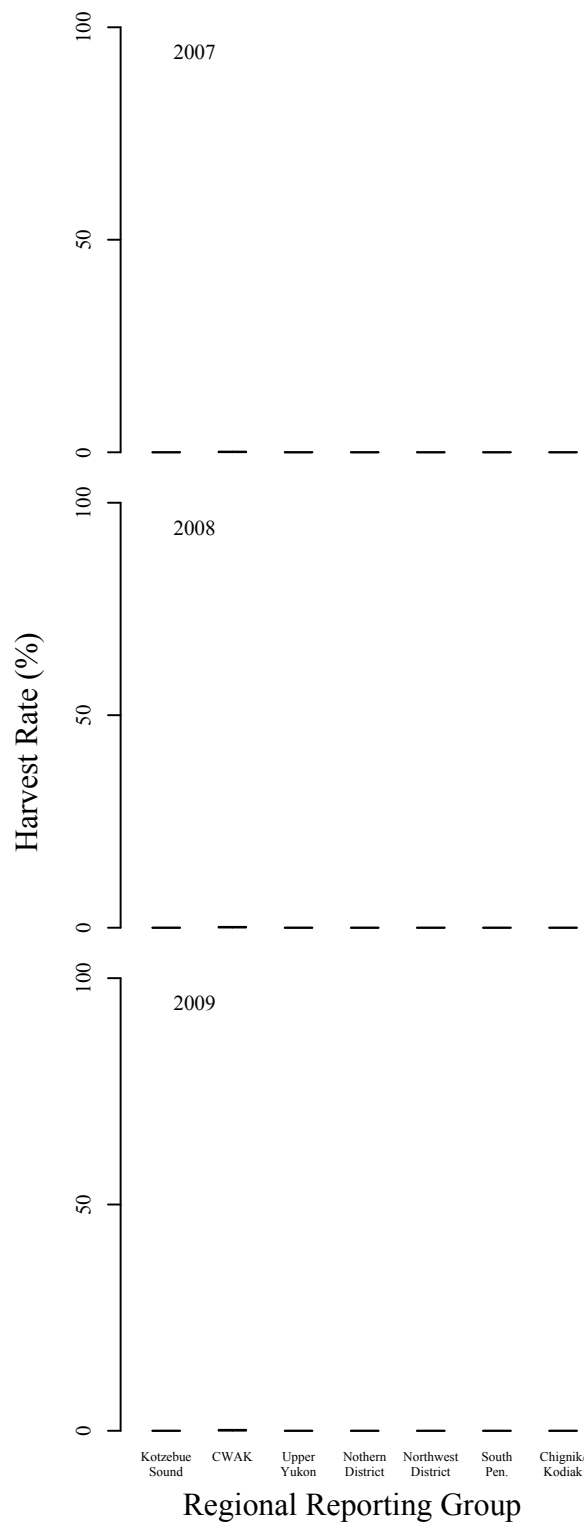


Figure 60.—Median reporting group harvest rate estimates (bars) and 90% credibility intervals (whiskers) by temporal stratum within years for chum salmon sampled from Mekoryuk, Subsistence, Kuskokwim Area, Arctic-Yukon-Kuskokwim Region (map) from 2007 to 2009 for the Western Alaska Salmon Stock Identification Program.

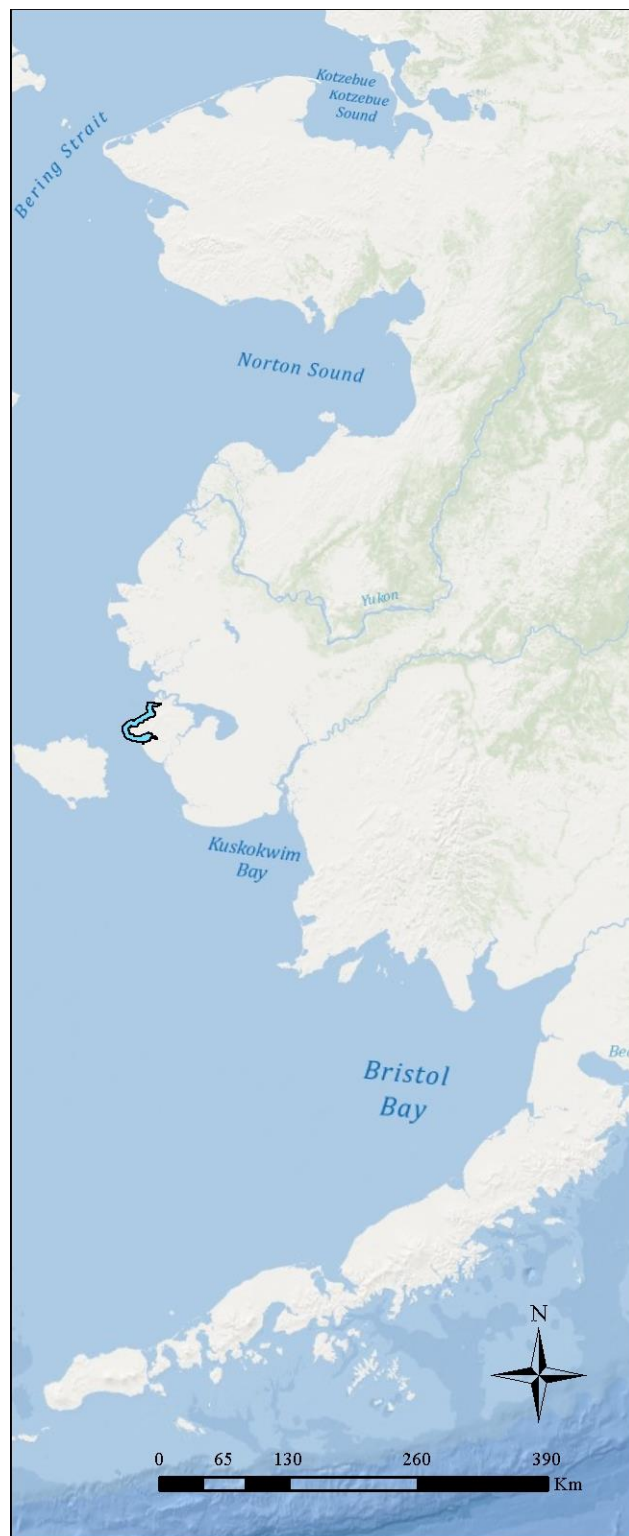
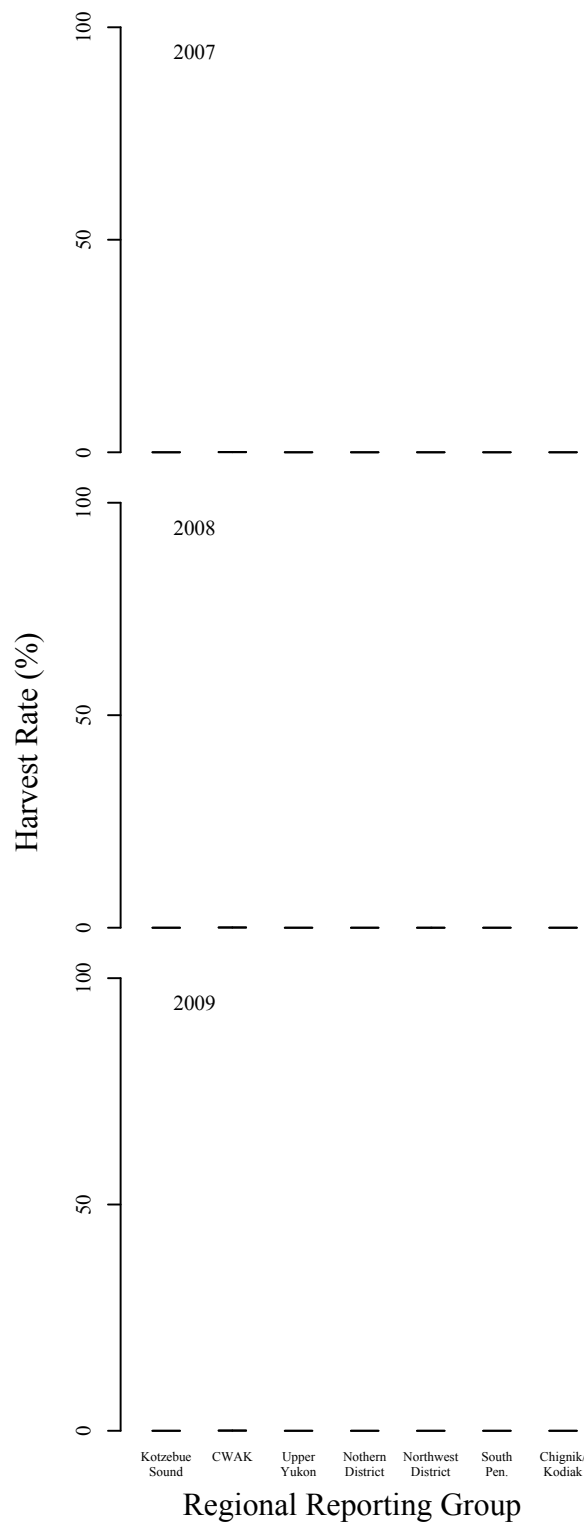


Figure 61.—Median reporting group harvest rate estimates (bars) and 90% credibility intervals (whiskers) by temporal stratum within years for chum salmon sampled from Toksook Bay, Subsistence, Kuskokwim Area, Arctic-Yukon-Kuskokwim Region (map) from 2007 to 2009 for the Western Alaska Salmon Stock Identification Program.

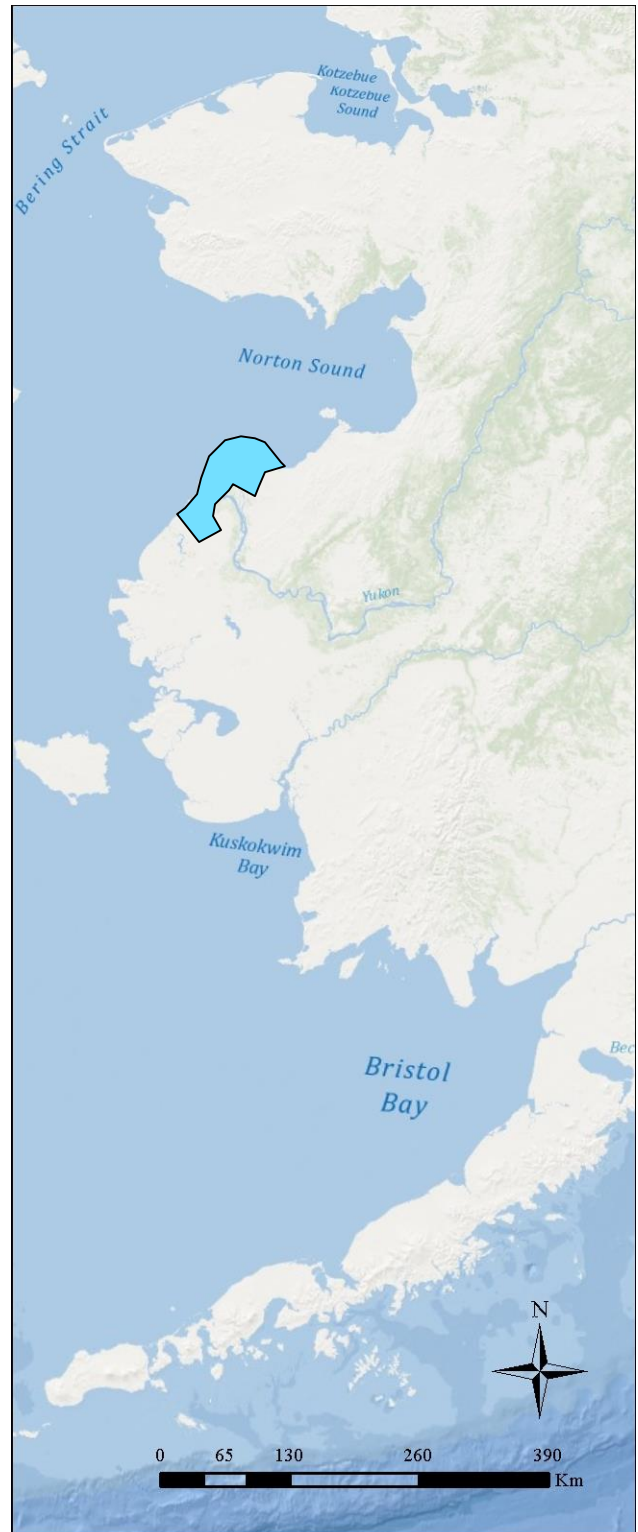
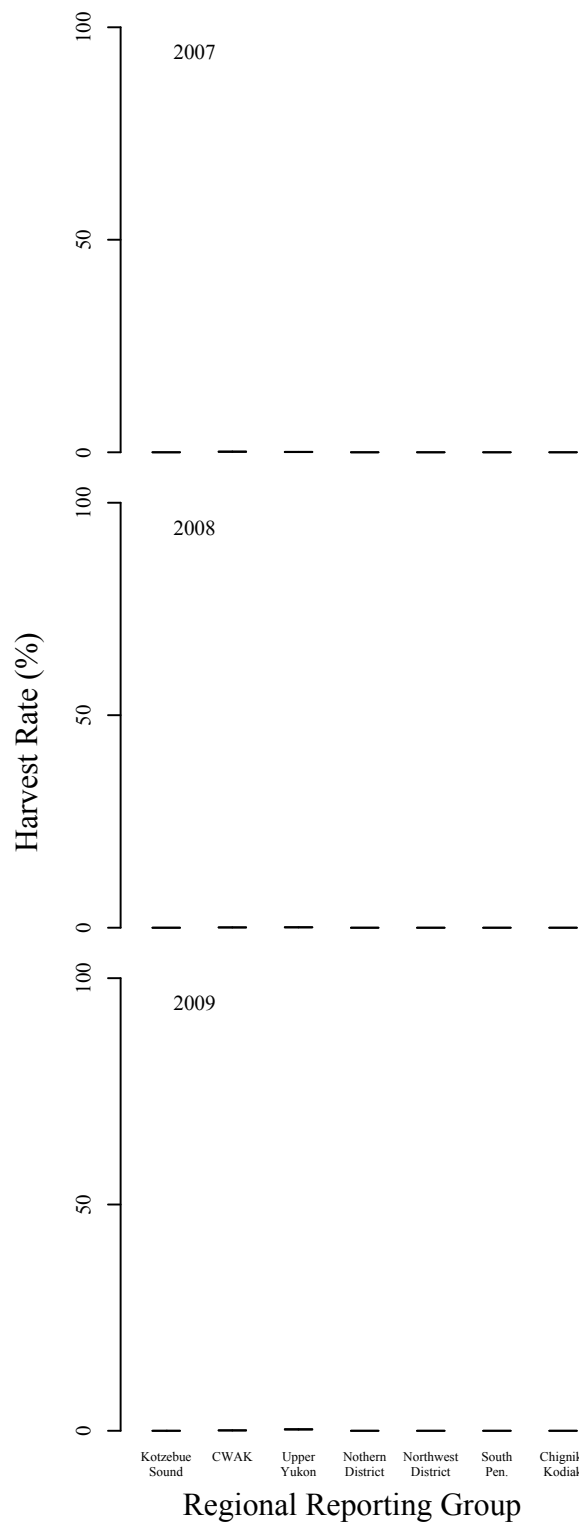


Figure 62.—Median reporting group harvest rate estimates (bars) and 90% credibility intervals (whiskers) by temporal stratum within years for chum salmon sampled from District 1 marine areas excluding Black River (summer), Commercial, Yukon-Northern Area (map) from 2007 to 2009 for the Western Alaska Salmon Stock Identification Program.

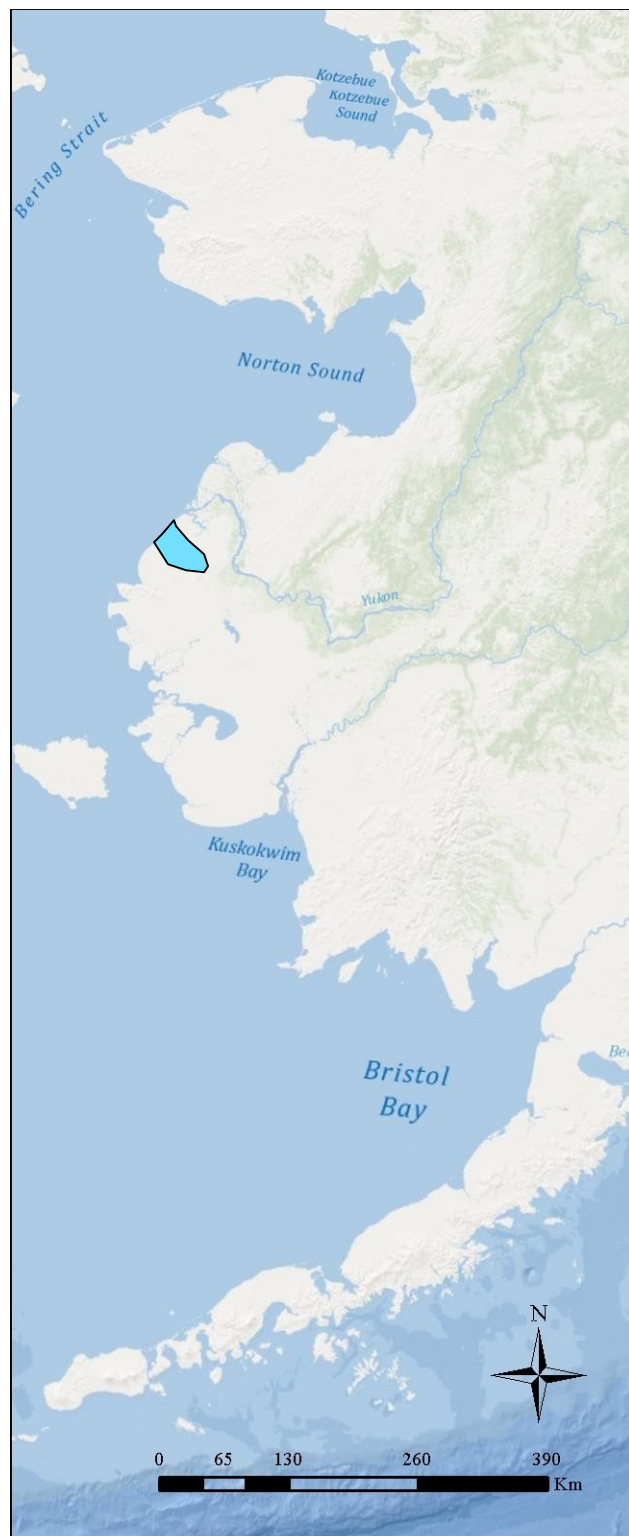
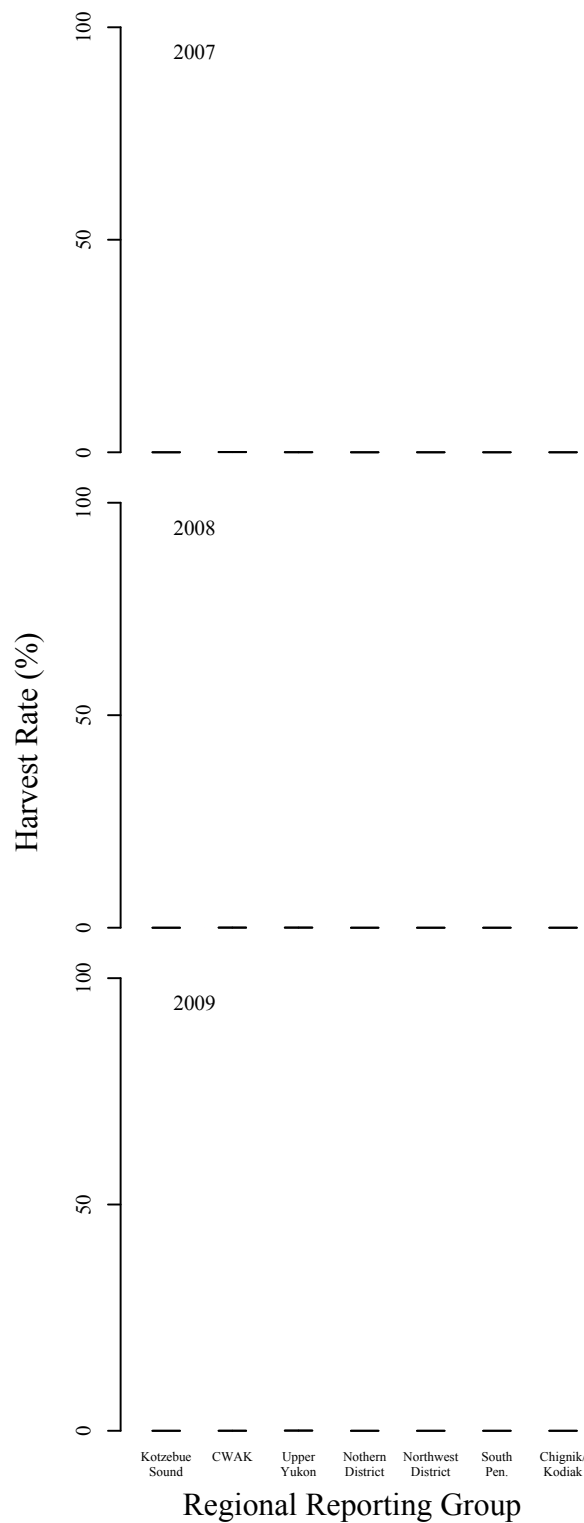


Figure 63.—Median reporting group harvest rate estimates (bars) and 90% credibility intervals (whiskers) by temporal stratum within years for chum salmon sampled from District 1 Black River only (summer), Commercial, Yukon-Northern Area, Arctic-Yukon-Kuskokwim Region (map) from 2007 to 2009 for the Western Alaska Salmon Stock Identification Program.

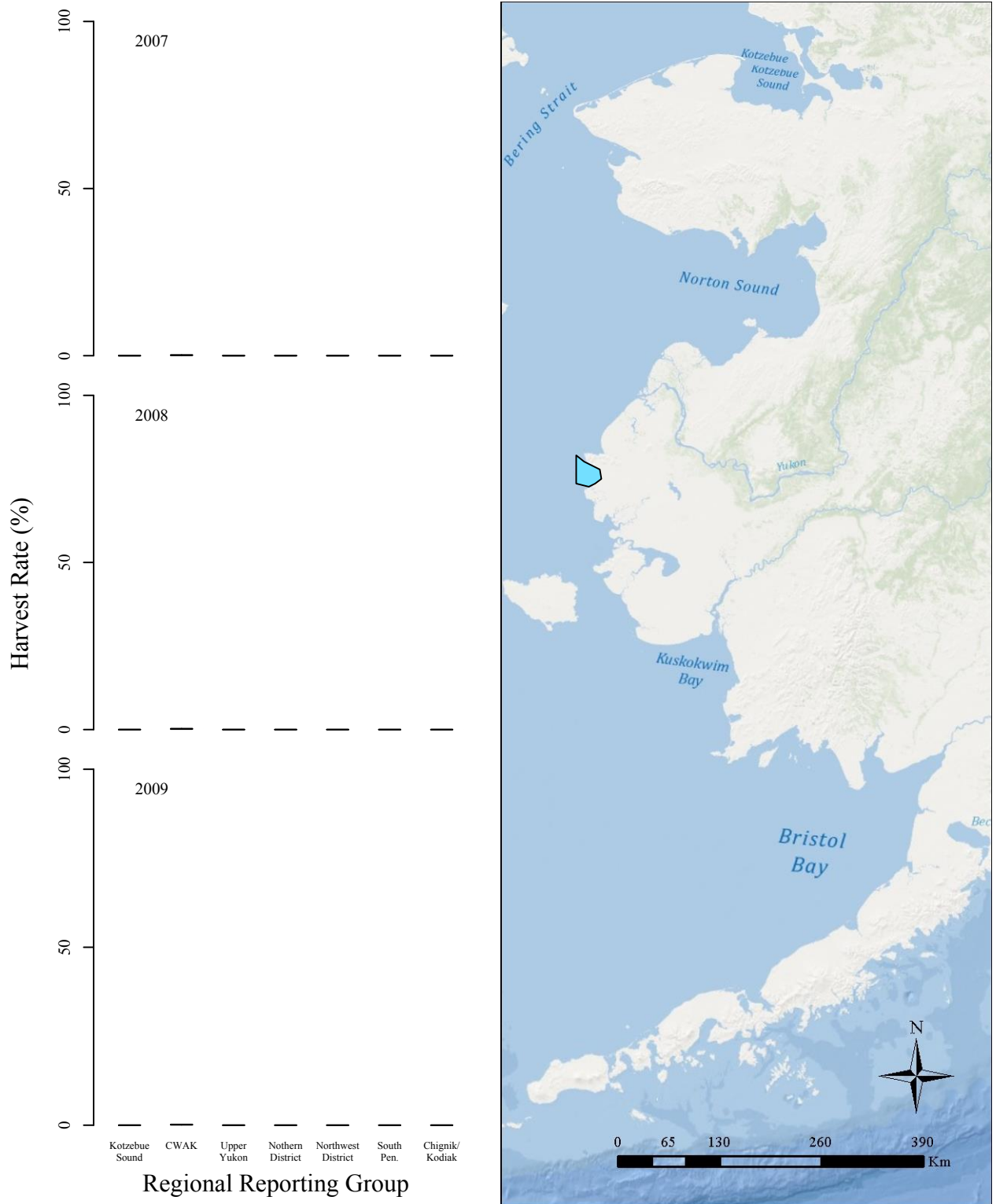


Figure 64.—Median reporting group harvest rate estimates (bars) and 90% credibility intervals (whiskers) by temporal stratum within years for chum salmon sampled from Coastal District (Hooper Bay; summer), Subsistence, Yukon-Northern Area, Arctic-Yukon-Kuskokwim Region (map) from 2007 to 2009 for the Western Alaska Salmon Stock Identification Program.

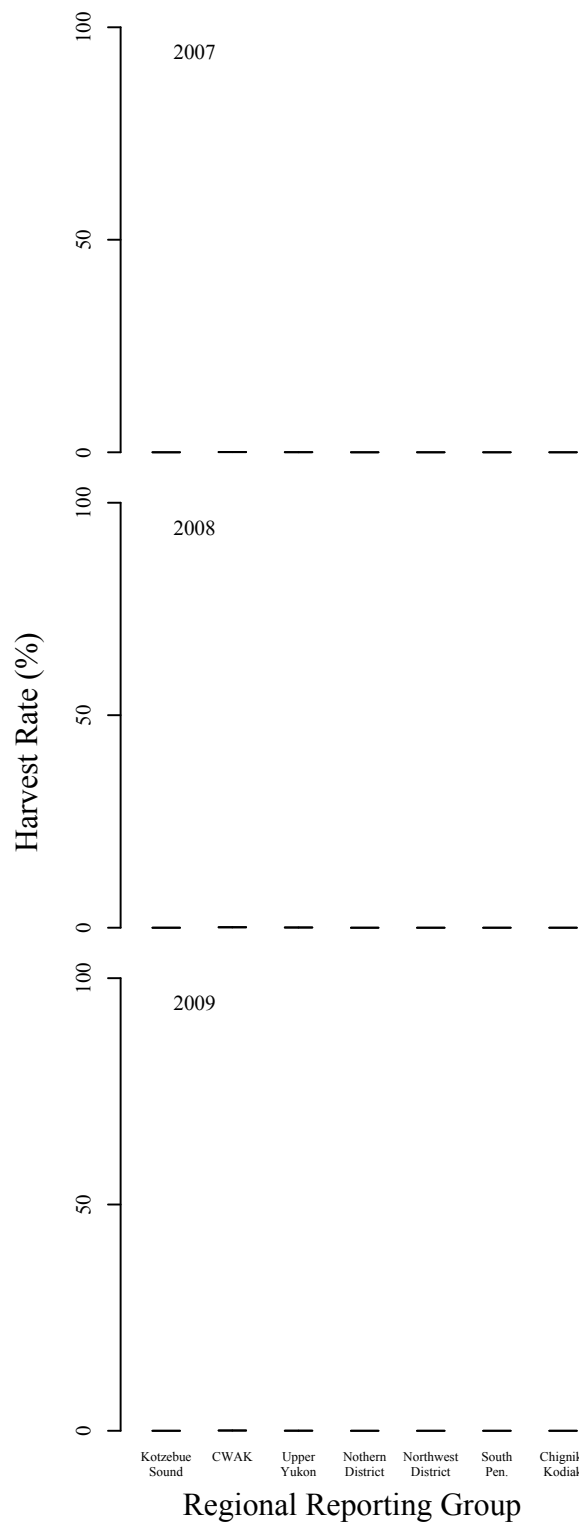


Figure 65.—Median reporting group harvest rate estimates (bars) and 90% credibility intervals (whiskers) by temporal stratum within years for chum salmon sampled from District 1 (Scammon Bay) Black River (summer), Subsistence, Yukon-Northern Area, Arctic-Yukon-Kuskokwim Region (map) from 2007 to 2009 for the Western Alaska Salmon Stock Identification Program.

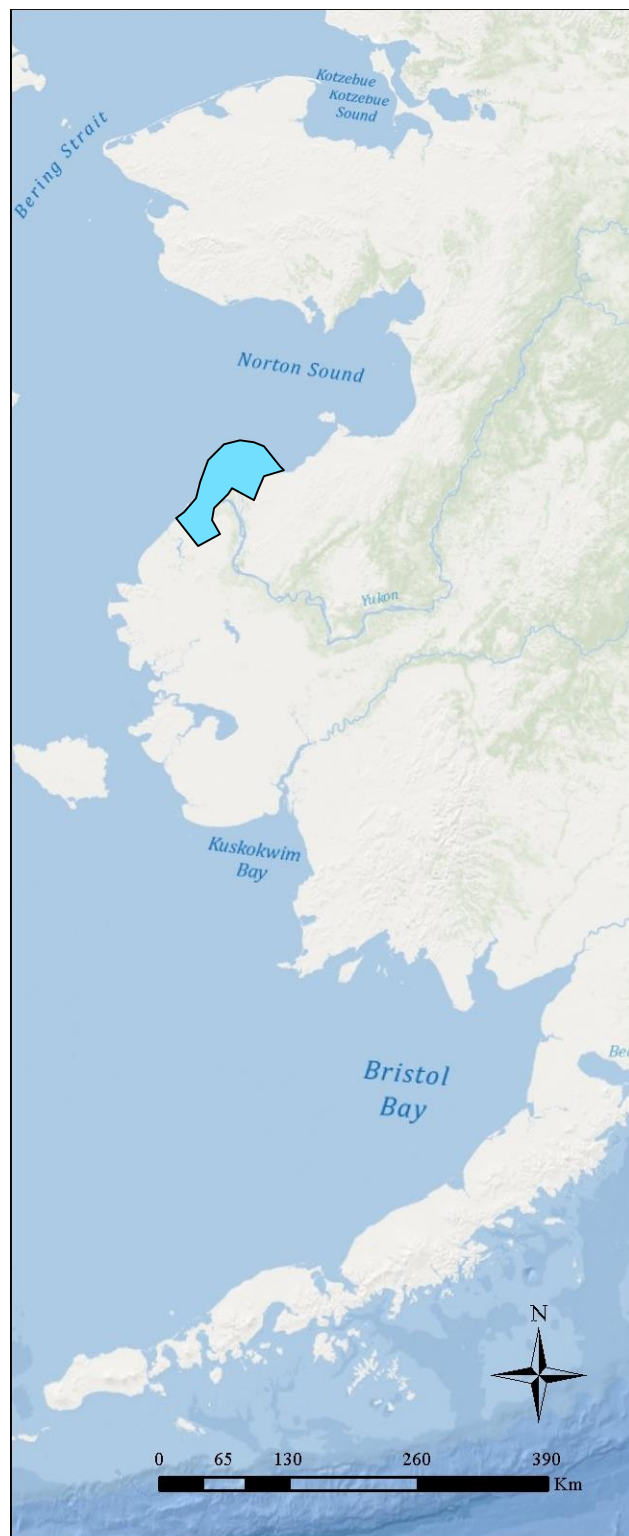
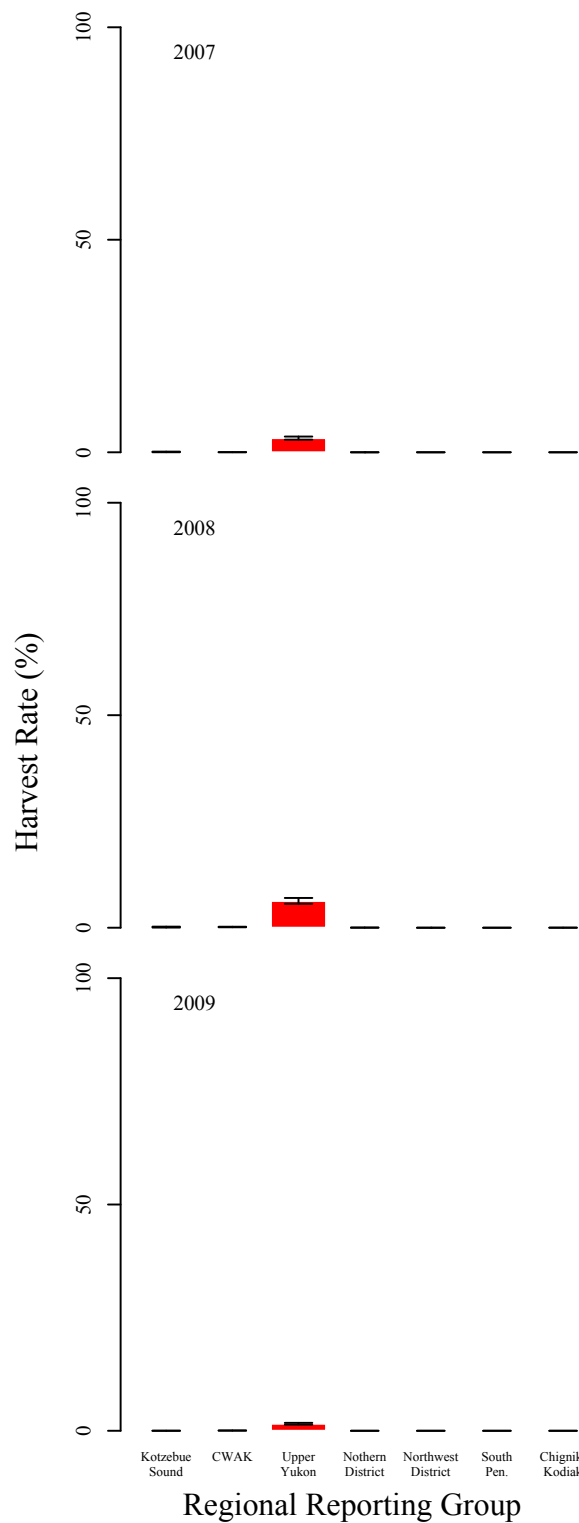


Figure 66.—Median reporting group harvest rate estimates (bars) and 90% credibility intervals (whiskers) by temporal stratum within years for chum salmon sampled from District 1 marine areas excluding Black River (fall), Commercial, Yukon-Northern Area, Arctic-Yukon-Kuskokwim Region (map) from 2007 to 2009 for the Western Alaska Salmon Stock Identification Program.

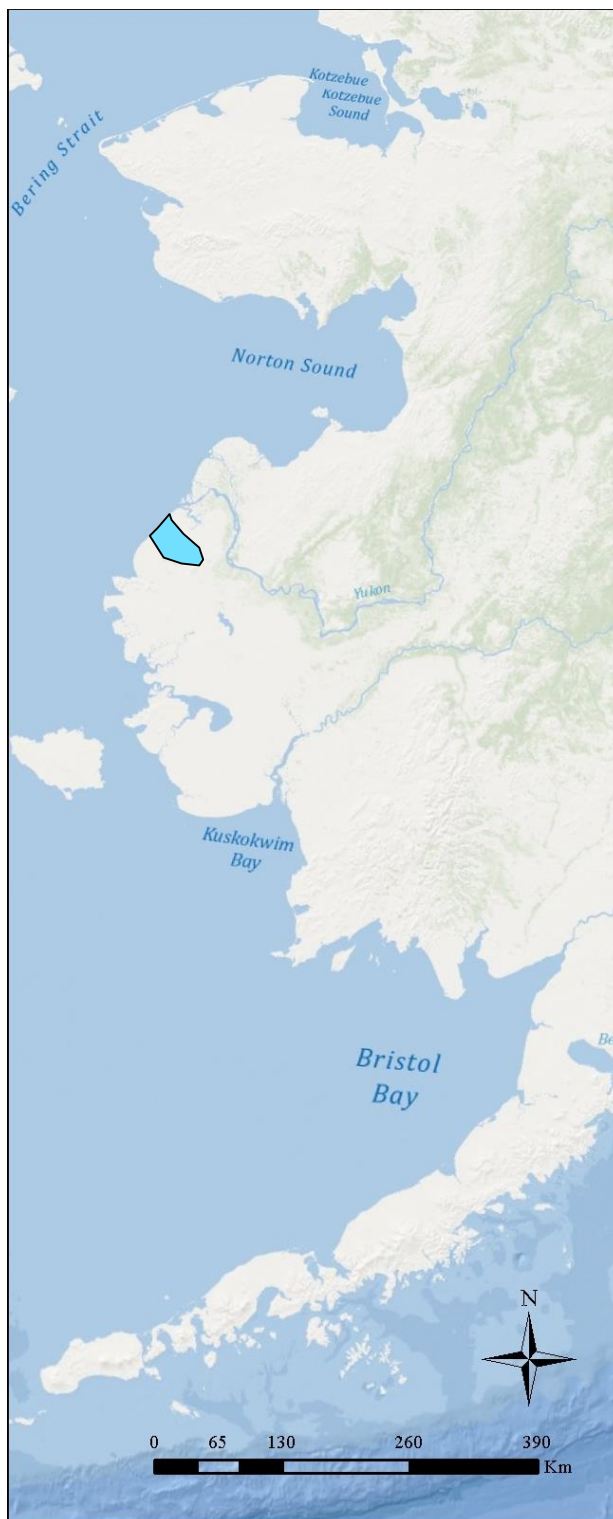
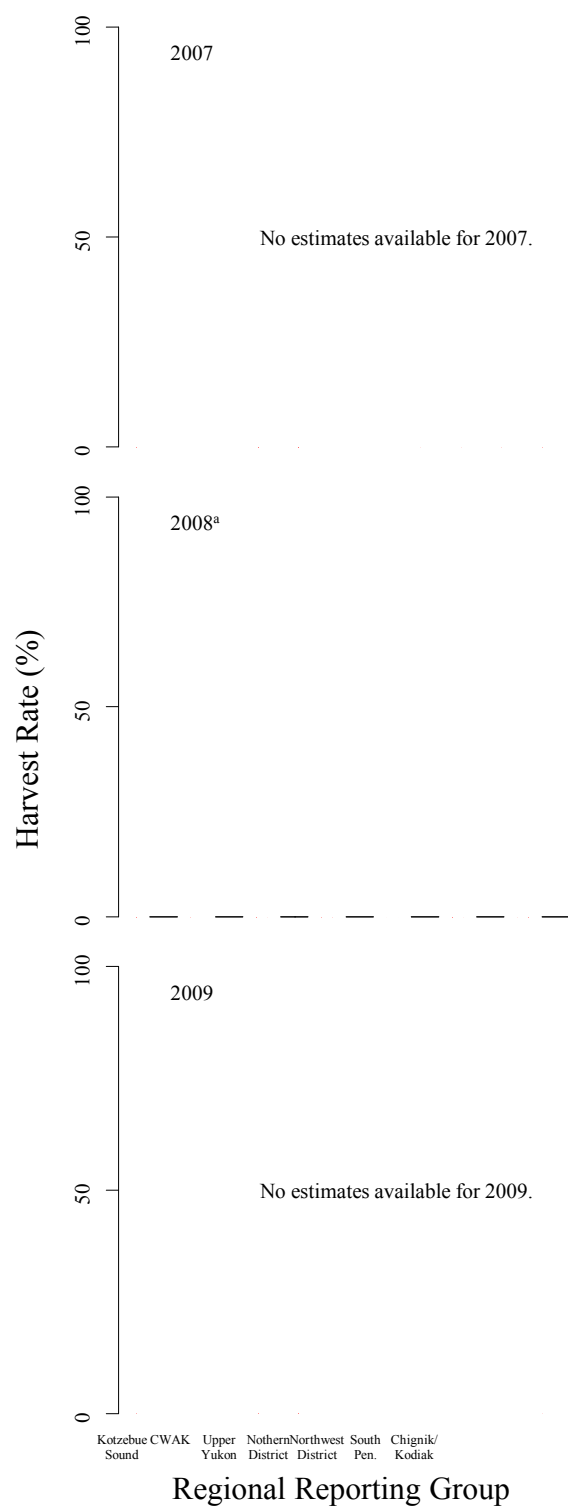


Figure 67.—Median reporting group harvest rate estimates (bars) and 90% credibility intervals (whiskers) by temporal stratum within years for chum salmon sampled from District 1 Black River only (fall), Commercial, Yukon-Northern Area, Arctic-Yukon-Kuskokwim Region (map) from 2007 to 2009 for the Western Alaska Salmon Stock Identification Program.

^a Only 22 fish were harvested. Stock composition was not estimated. Assumed that all fish belong to Upper Yukon reporting group.

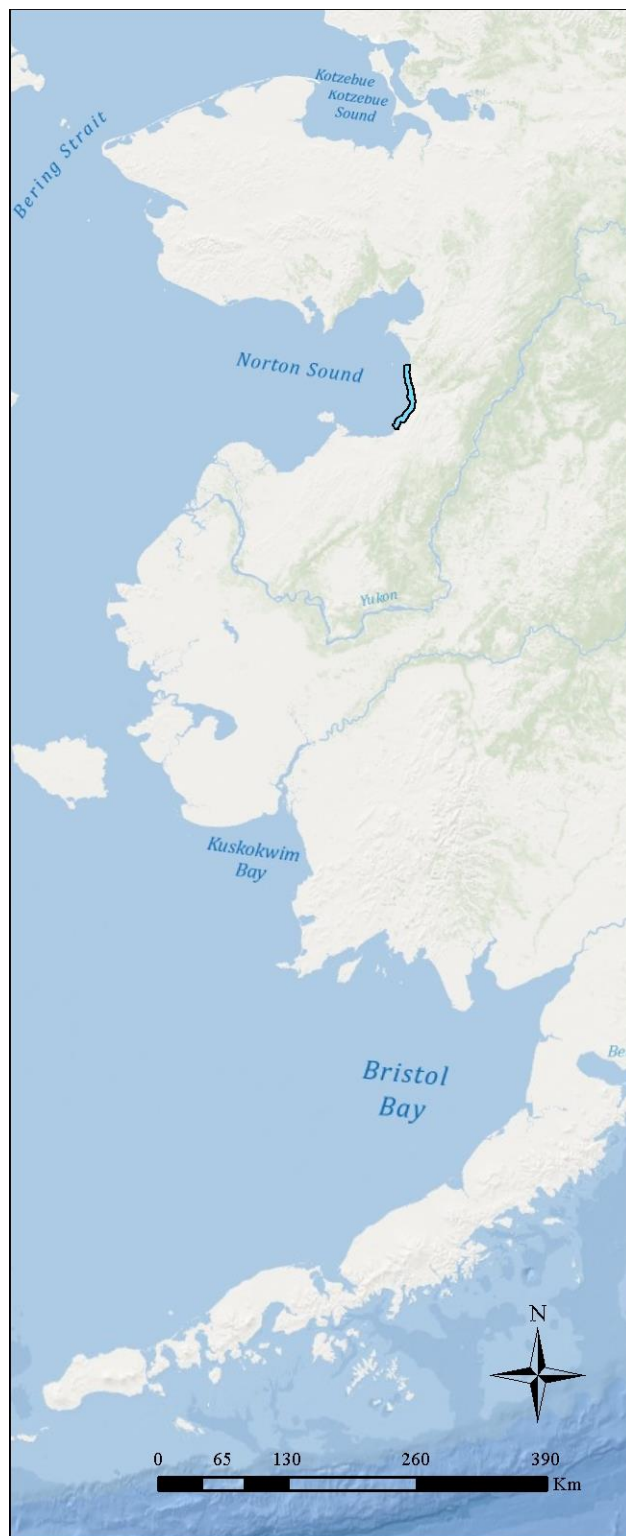
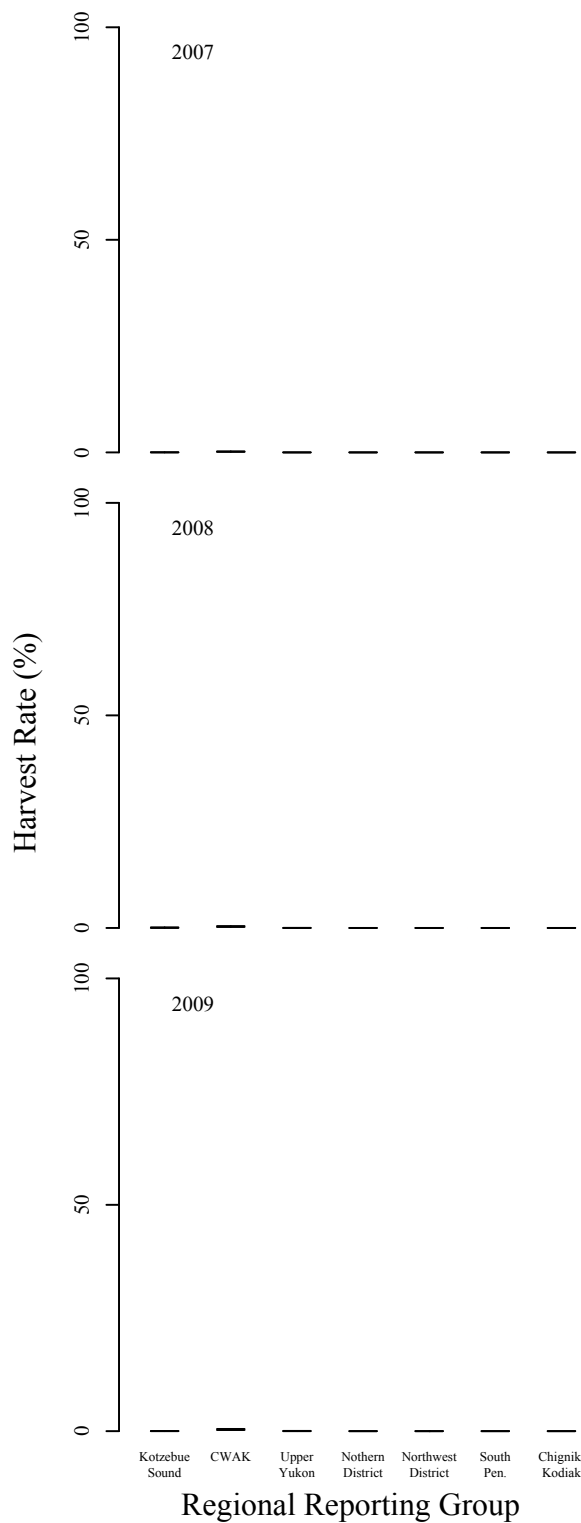


Figure 68.—Median reporting group harvest rate estimates (bars) and 90% credibility intervals (whiskers) by temporal stratum within years for chum salmon sampled from Subdistrict 6 Unalakleet, Subsistence and Commercial, Norton Sound-Port Clarence Area, Arctic-Yukon-Kuskokwim Region (map) from 2007 to 2009 for the Western Alaska Salmon Stock Identification Program.

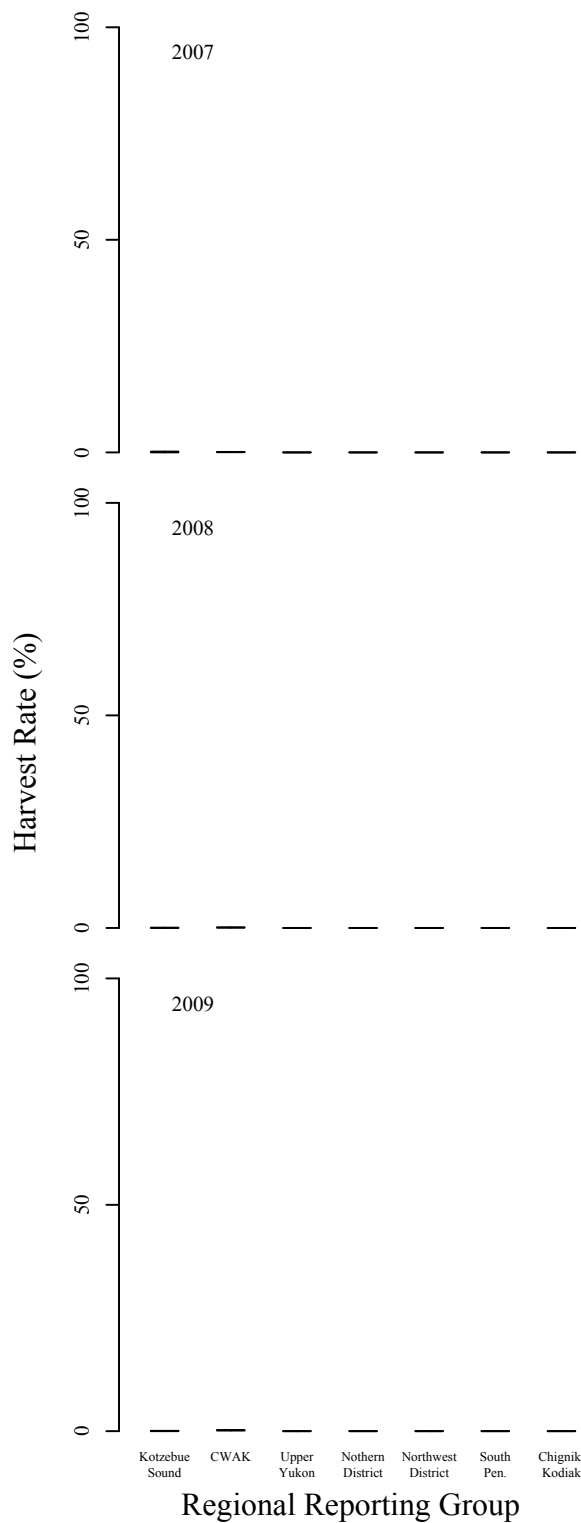


Figure 69.—Median reporting group harvest rate estimates (bars) and 90% credibility intervals (whiskers) by temporal stratum within years for chum salmon sampled from Subdistrict 5 Shaktoolik, Subsistence and Commercial, Norton Sound-Port Clarence Area, Arctic-Yukon-Kuskokwim Region (map) from 2007 to 2009 for the Western Alaska Salmon Stock Identification Program.

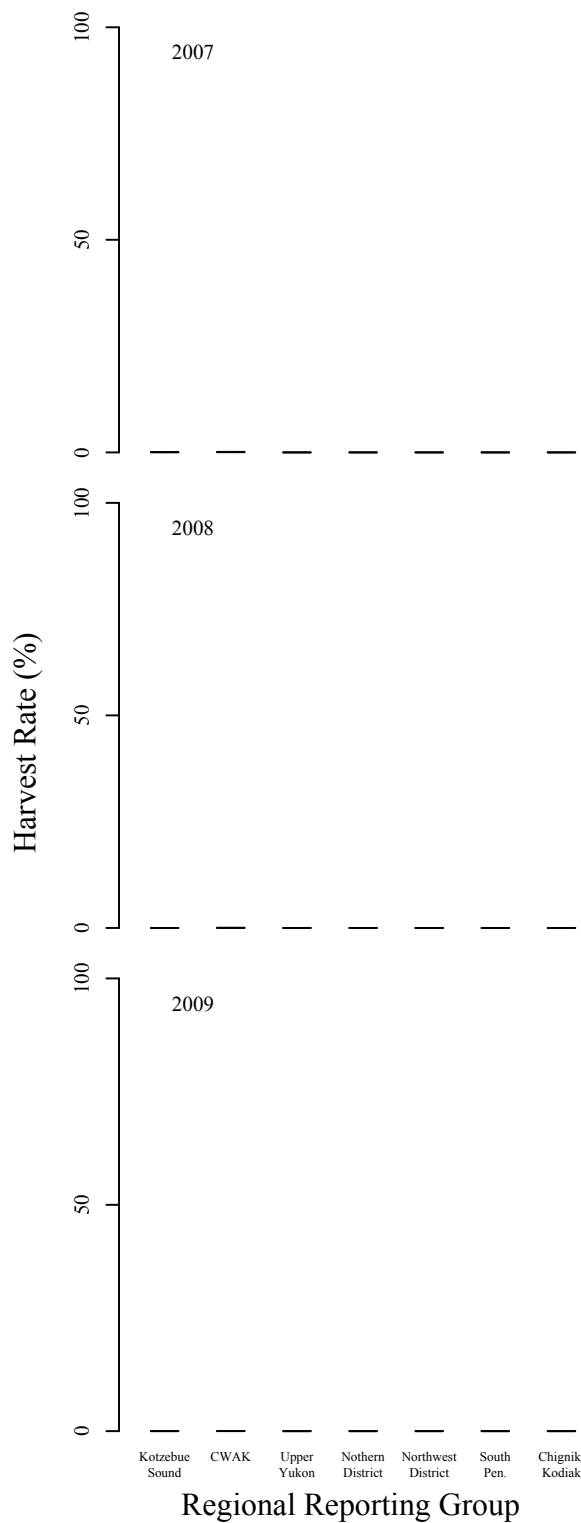


Figure 70.—Median reporting group harvest rate estimates (bars) and 90% credibility intervals (whiskers) by temporal stratum within years for chum salmon sampled from Subdistrict 3 Moses Point, Subsistence and Commercial, Norton Sound-Port Clarence Area, Arctic-Yukon-Kuskokwim Region (map) from 2007 to 2009 for the Western Alaska Salmon Stock Identification Program.

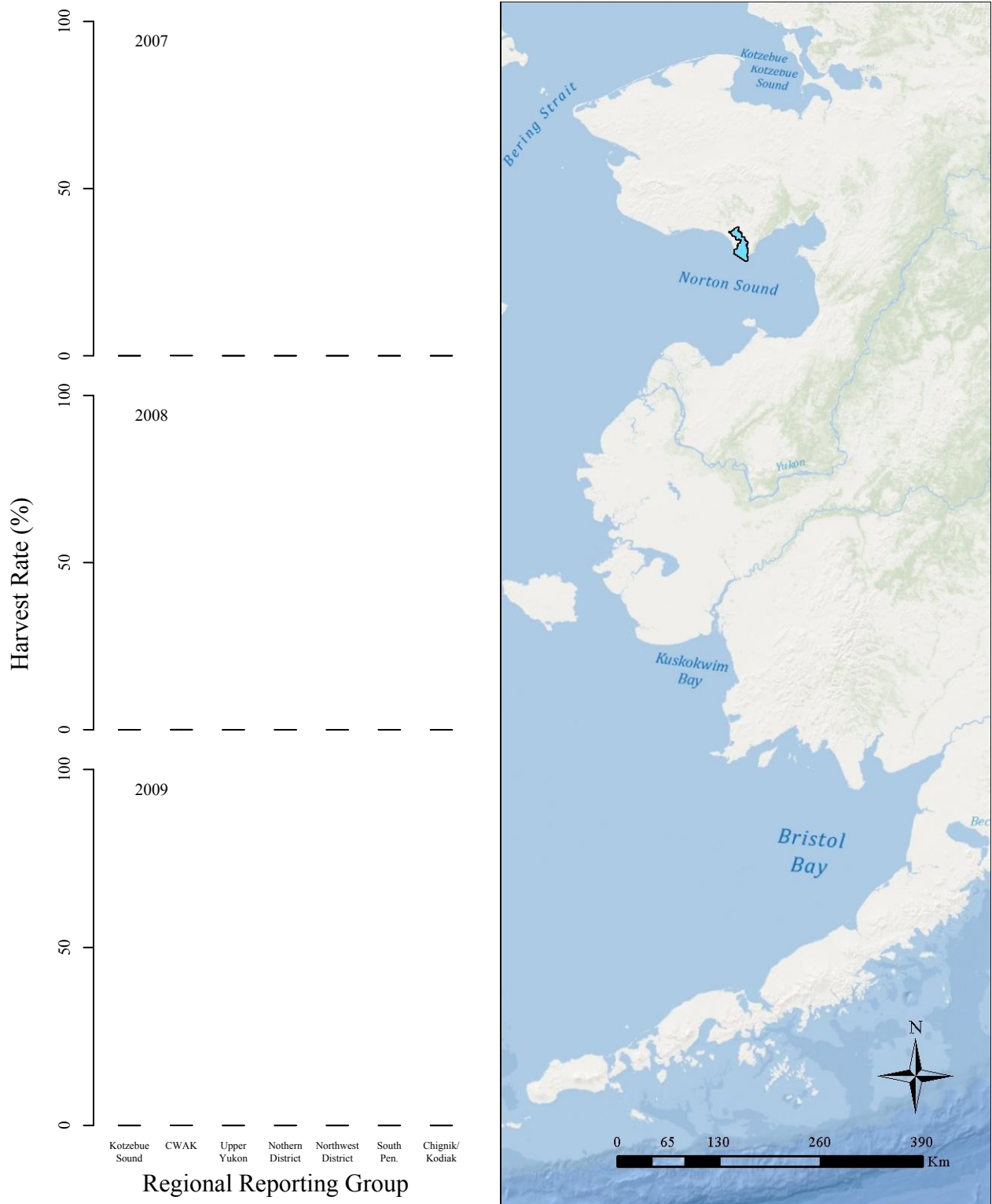


Figure 71.—Median reporting group harvest rate estimates (bars) and 90% credibility intervals (whiskers) by temporal stratum within years for chum salmon sampled from Subdistrict 2 Golovin Bay, Subsistence and Commercial, Norton Sound-Port Clarence Area, Arctic-Yukon-Kuskokwim Region (map) from 2007 to 2009 for the Western Alaska Salmon Stock Identification Program.

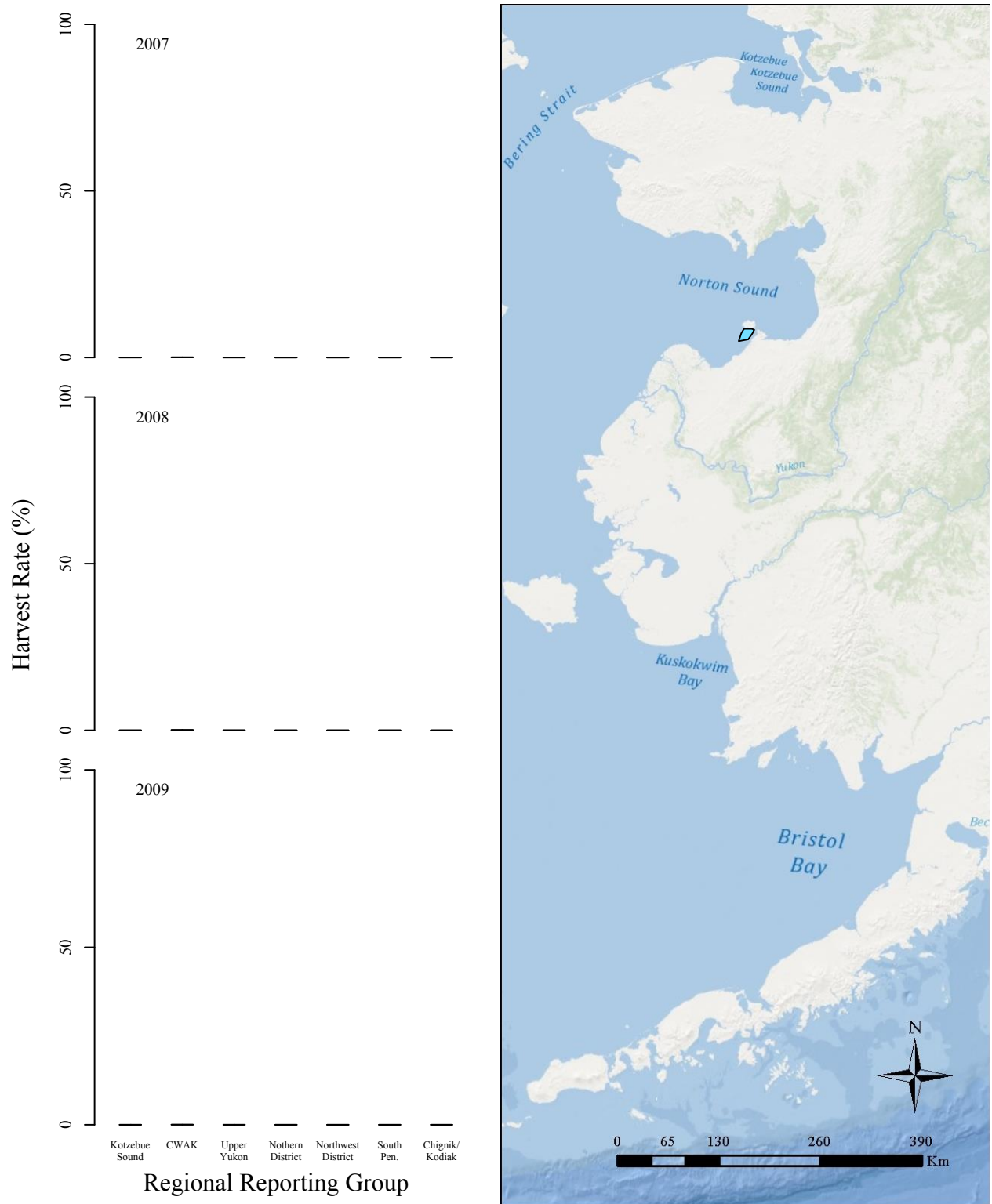


Figure 72.—Median reporting group harvest rate estimates (bars) and 90% credibility intervals (whiskers) by temporal stratum within years for chum salmon sampled from Stebbins area, Subsistence, Norton Sound-Port Clarence Area, Arctic-Yukon-Kuskokwim Region (map) from 2007 to 2009 for the Western Alaska Salmon Stock Identification Program.

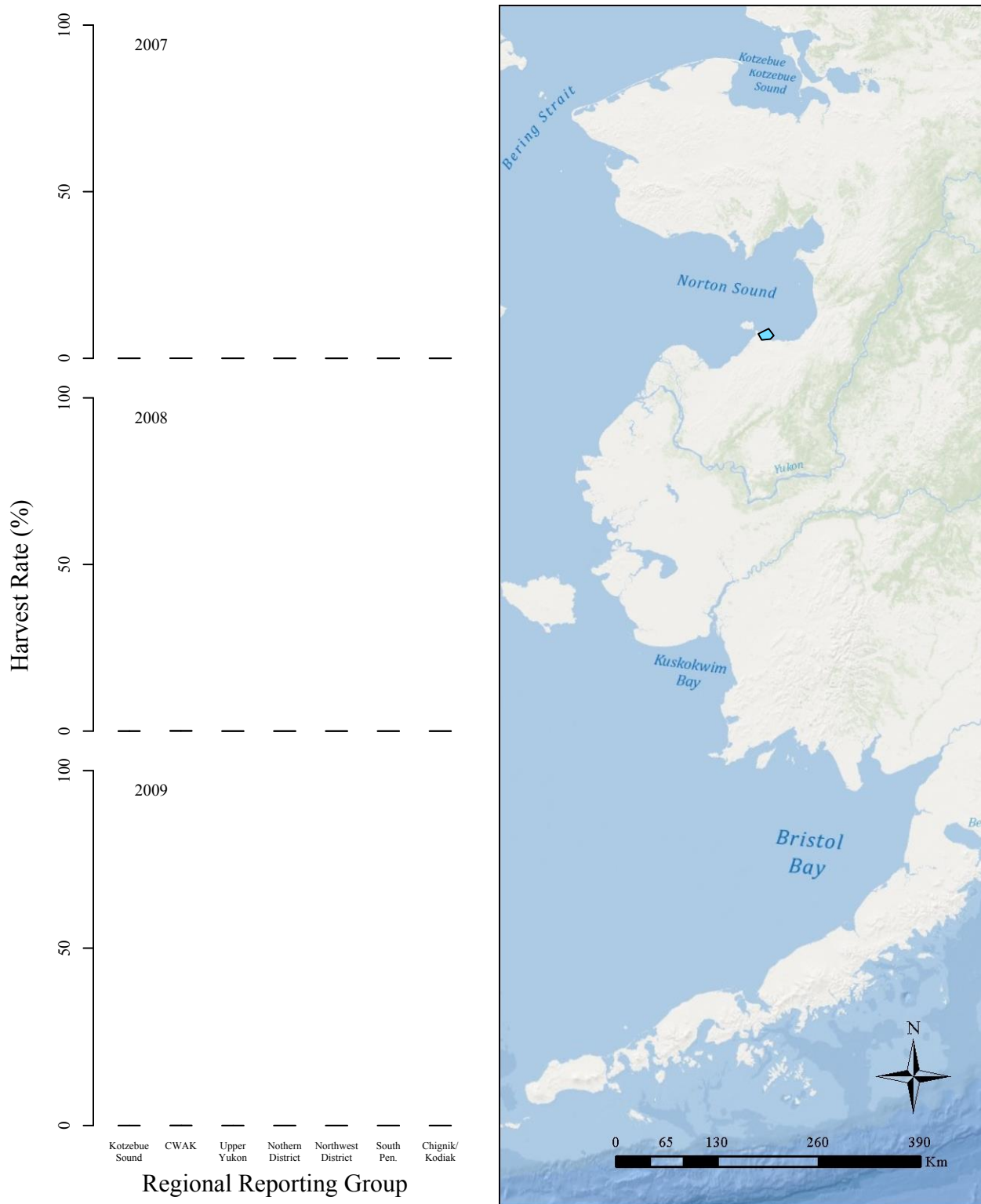


Figure 73.—Median reporting group harvest rate estimates (bars) and 90% credibility intervals (whiskers) by temporal stratum within years for chum salmon sampled from St. Michael area, Subsistence, Norton Sound-Port Clarence Area, Arctic-Yukon-Kuskokwim Region (map) from 2007 to 2009 for the Western Alaska Salmon Stock Identification Program.

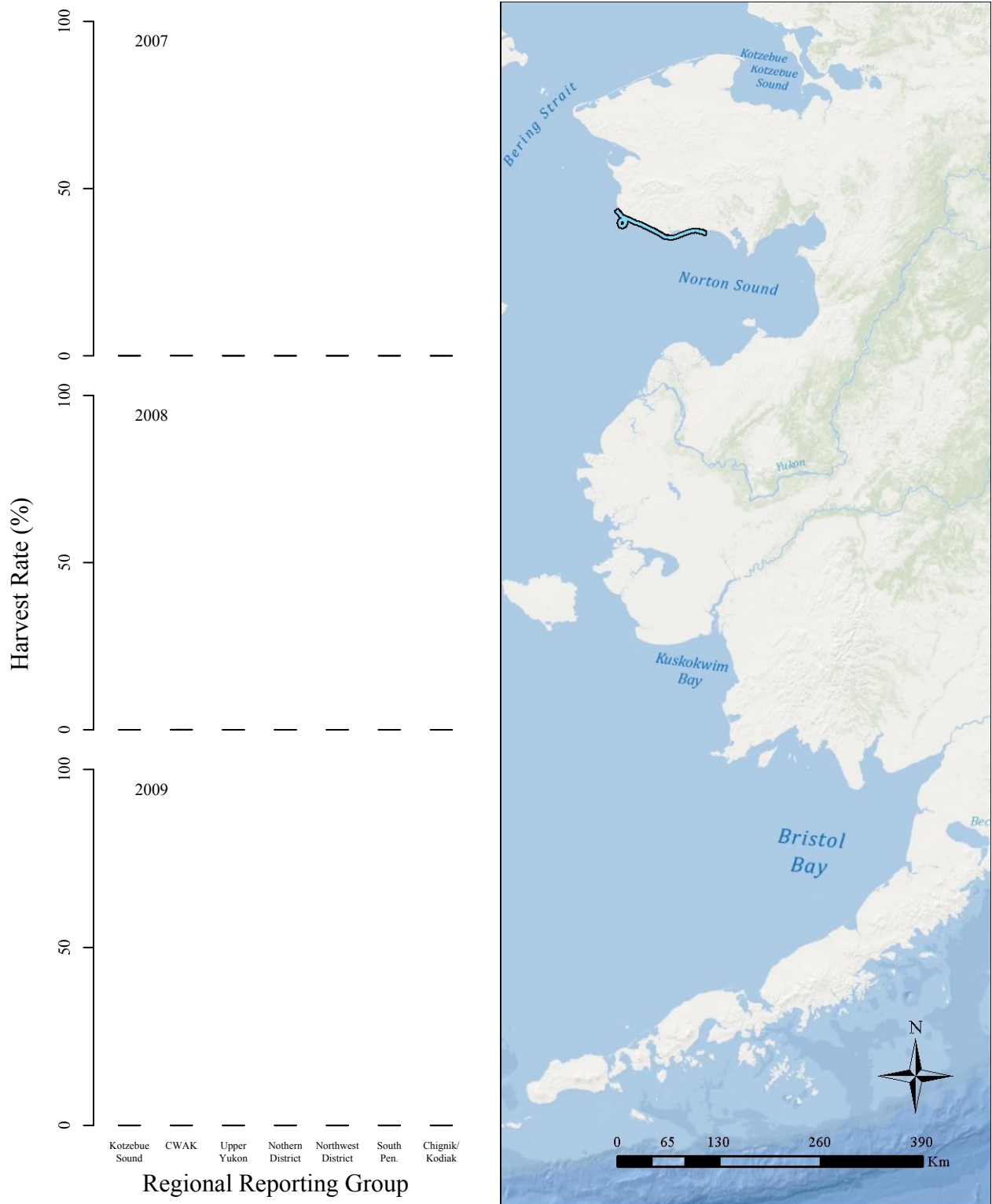


Figure 74.—Median reporting group harvest rate estimates (bars) and 90% credibility intervals (whiskers) by temporal stratum within years for chum salmon sampled from Subdistrict 1 Nome area, Subsistence, Norton Sound-Port Clarence Area, Arctic-Yukon-Kuskokwim Region (map) from 2007 to 2009 for the Western Alaska Salmon Stock Identification Program.

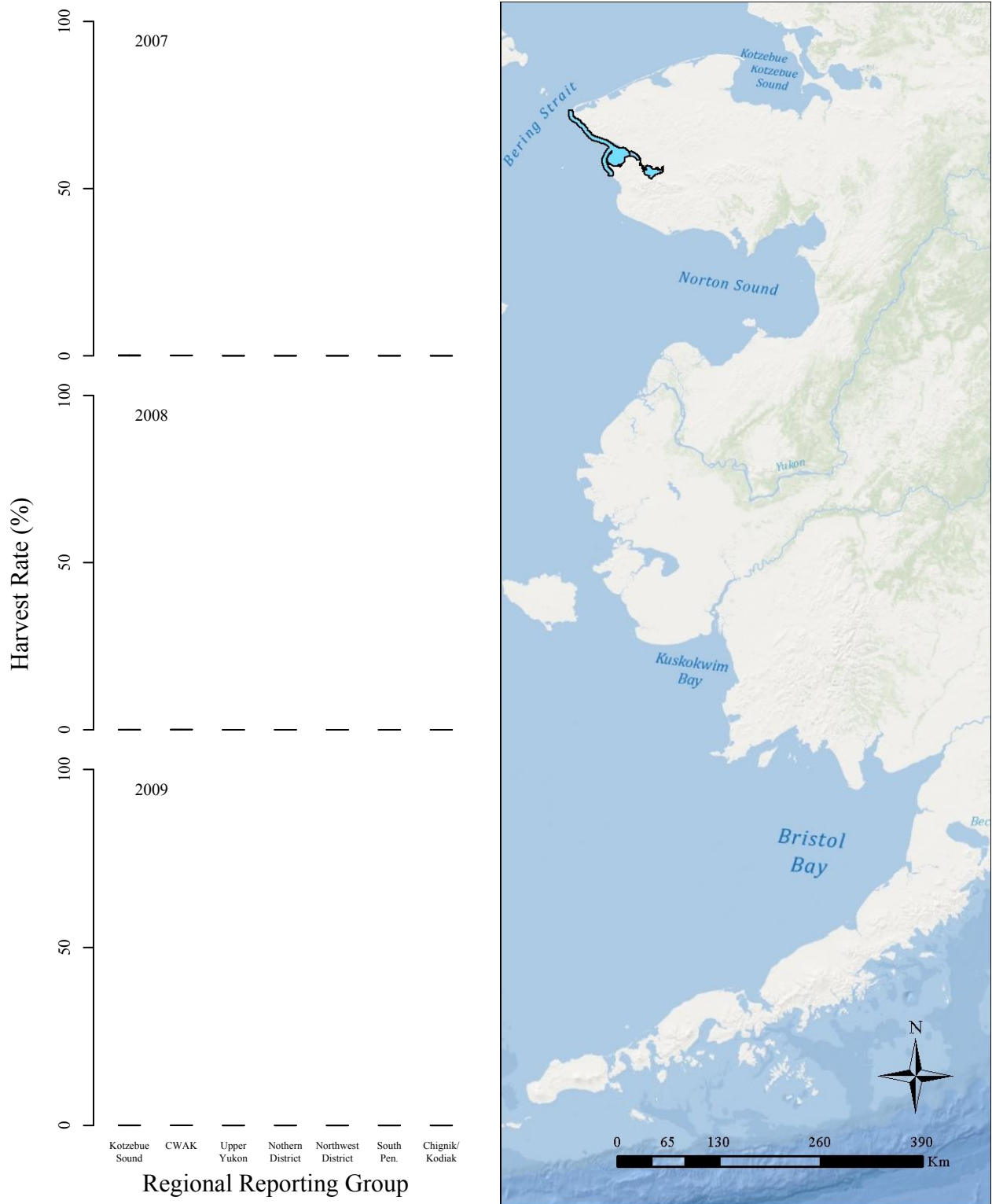


Figure 75.—Median reporting group harvest rate estimates (bars) and 90% credibility intervals (whiskers) by temporal stratum within years for chum salmon sampled from Port Clarence District, Subsistence and Commercial, Norton Sound-Port Clarence Area, Arctic-Yukon-Kuskokwim Region (map) from 2007 to 2009 for the Western Alaska Salmon Stock Identification Program.

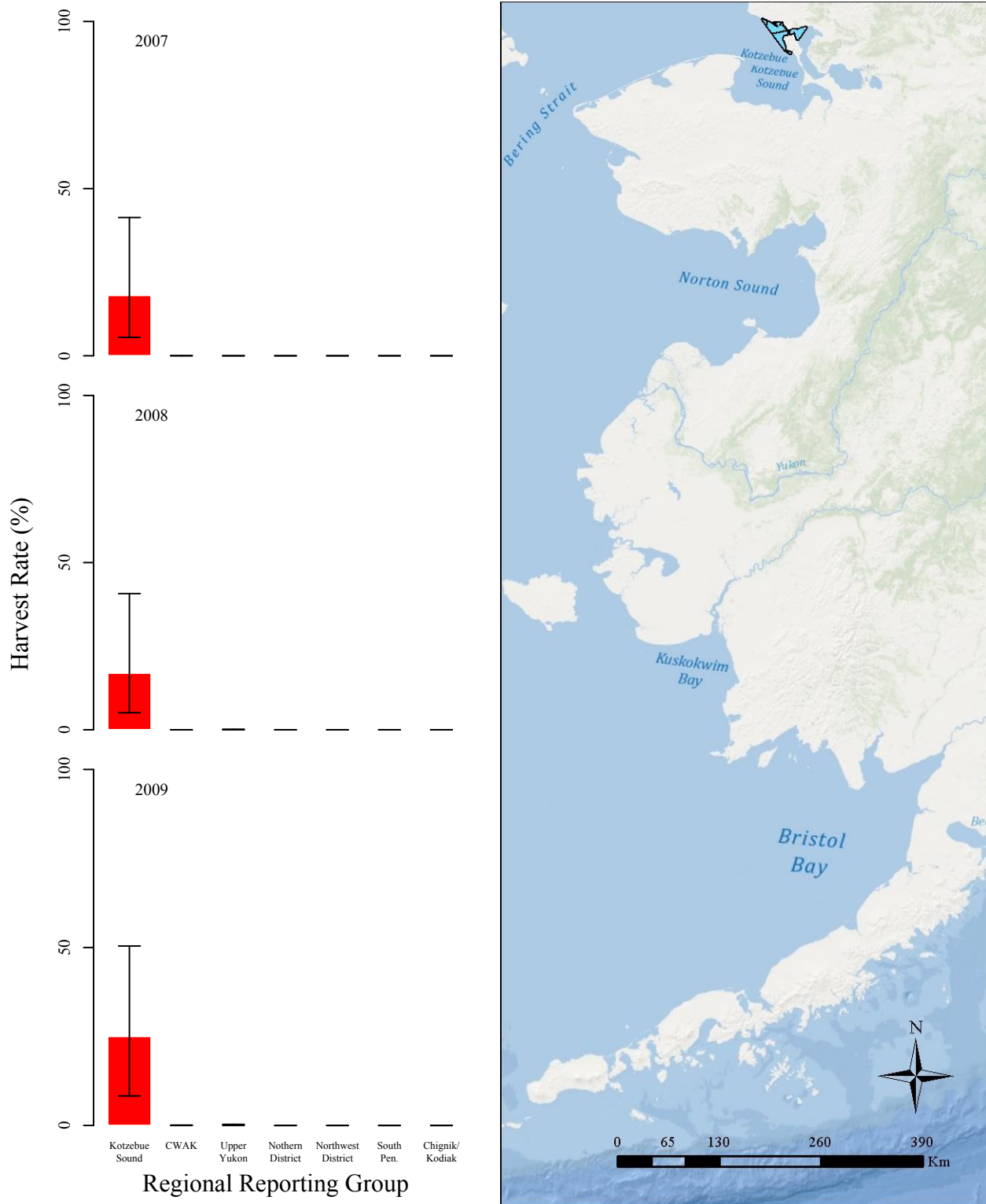


Figure 76.—Median reporting group harvest rate estimates (bars) and 90% credibility intervals (whiskers) by temporal stratum within years for chum salmon sampled from Kotzebue Sound District, Commercial, Kotzebue Area, Arctic-Yukon-Kuskokwim Region (map) from 2007 to 2009 for the Western Alaska Salmon Stock Identification Program.

**FIGURES 77-83: HARVEST RATE OF A REPORTING
GROUP BY FISHERY**

***WHAT PROPORTION OF THE RUN OF A GIVEN STOCK WAS
HARVESTED IN EACH BROAD-SCALE FISHERY?***

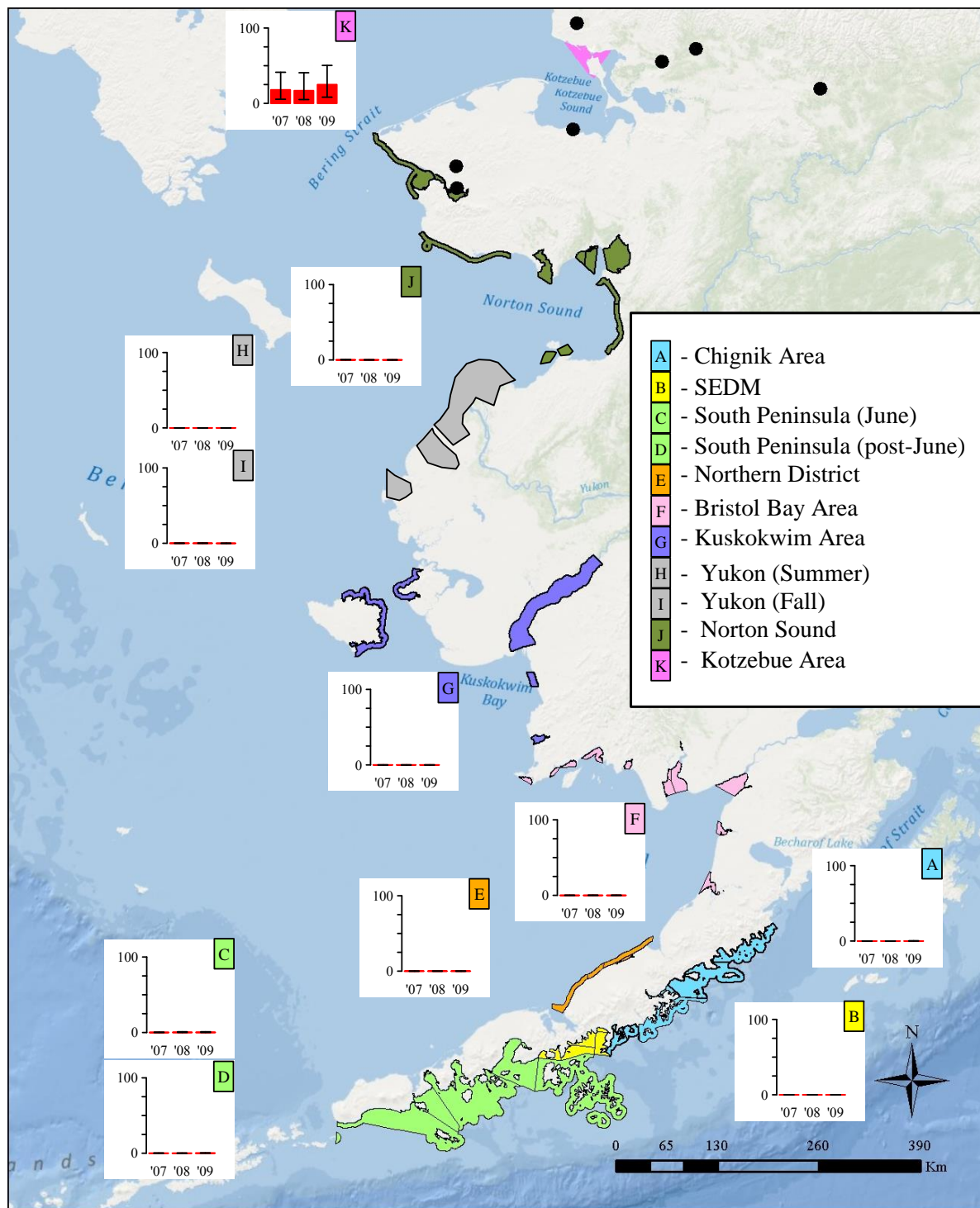


Figure 77.—Median harvest rate estimates (bars) and 90% credibility intervals (whiskers) of chum salmon from the Kotzebue Sound reporting group by fishery from 2007 to 2009 for the Western Alaska Salmon Stock Identification Program. Circles indicate populations in the Kotzebue Sound reporting group.

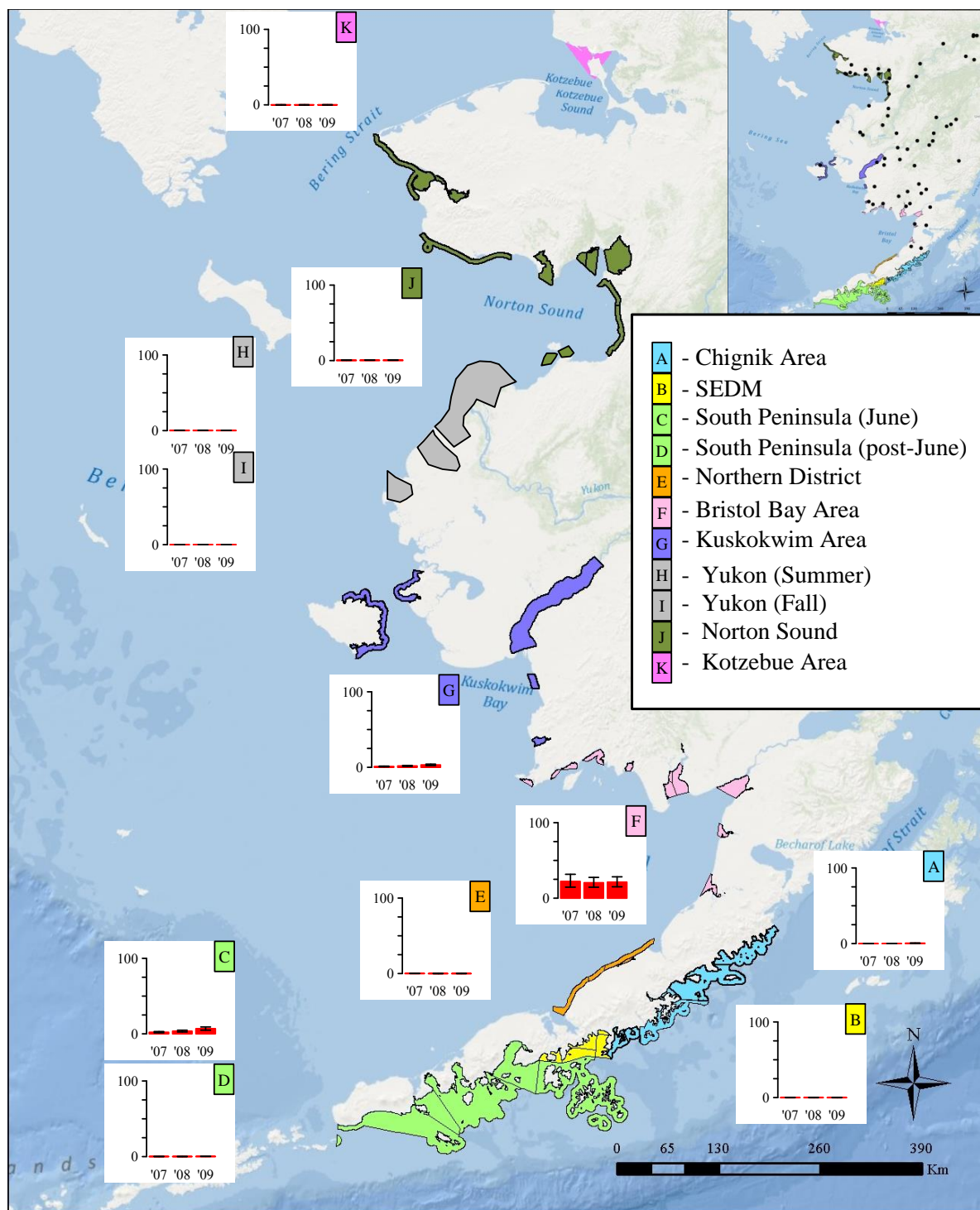


Figure 78.—Median harvest rate estimates (bars) and 90% credibility intervals (whiskers) of chum salmon from the Coastal Western Alaska (CWAK) reporting group by fishery from 2007 to 2009 for the Western Alaska Salmon Stock Identification Program. Circles in the inset map indicate populations in the Coastal Western Alaska (CWAK) reporting group.

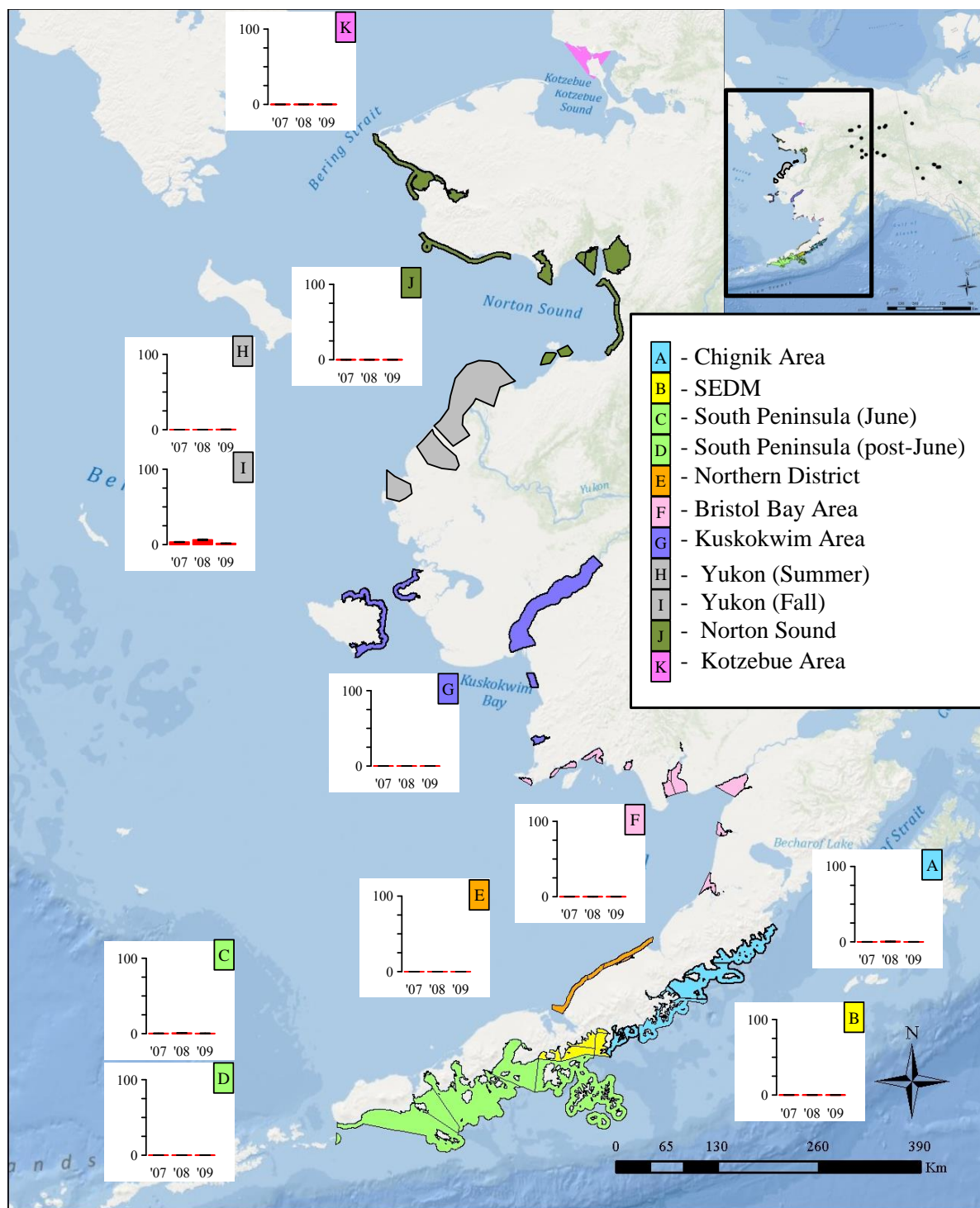


Figure 79.—Median harvest rate estimates (bars) and 90% credibility intervals (whiskers) of chum salmon from the Upper Yukon River reporting group by fishery from 2007 to 2009 for the Western Alaska Salmon Stock Identification Program. Circles in the inset map indicate populations in the Upper Yukon River reporting group.

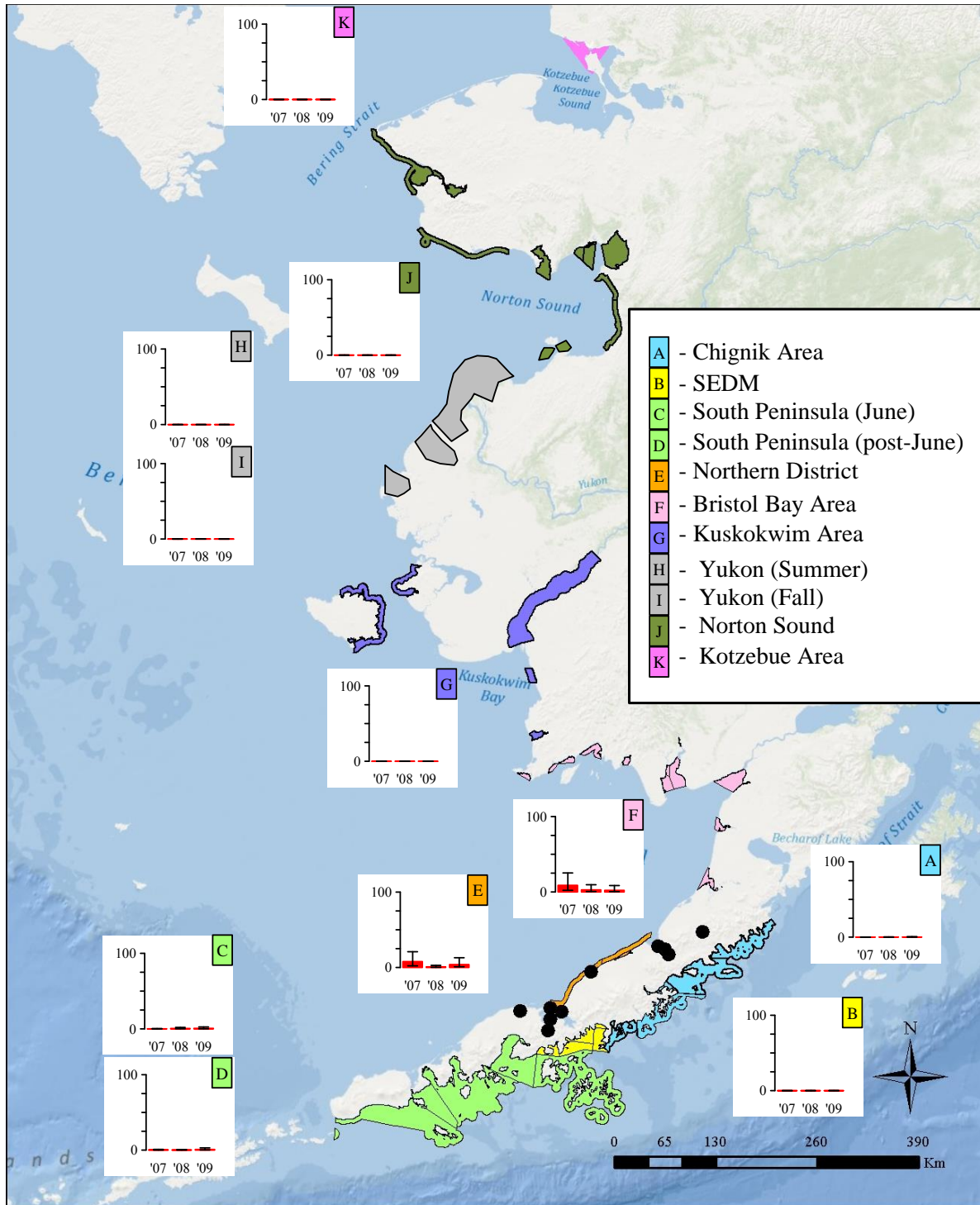


Figure 80.— Median harvest rate estimates (bars) and 90% credibility intervals (whiskers) of chum salmon from the Northern District reporting group by fishery from 2007 to 2009 for the Western Alaska Salmon Stock Identification Program. Circles indicate populations in the Northern District reporting group.

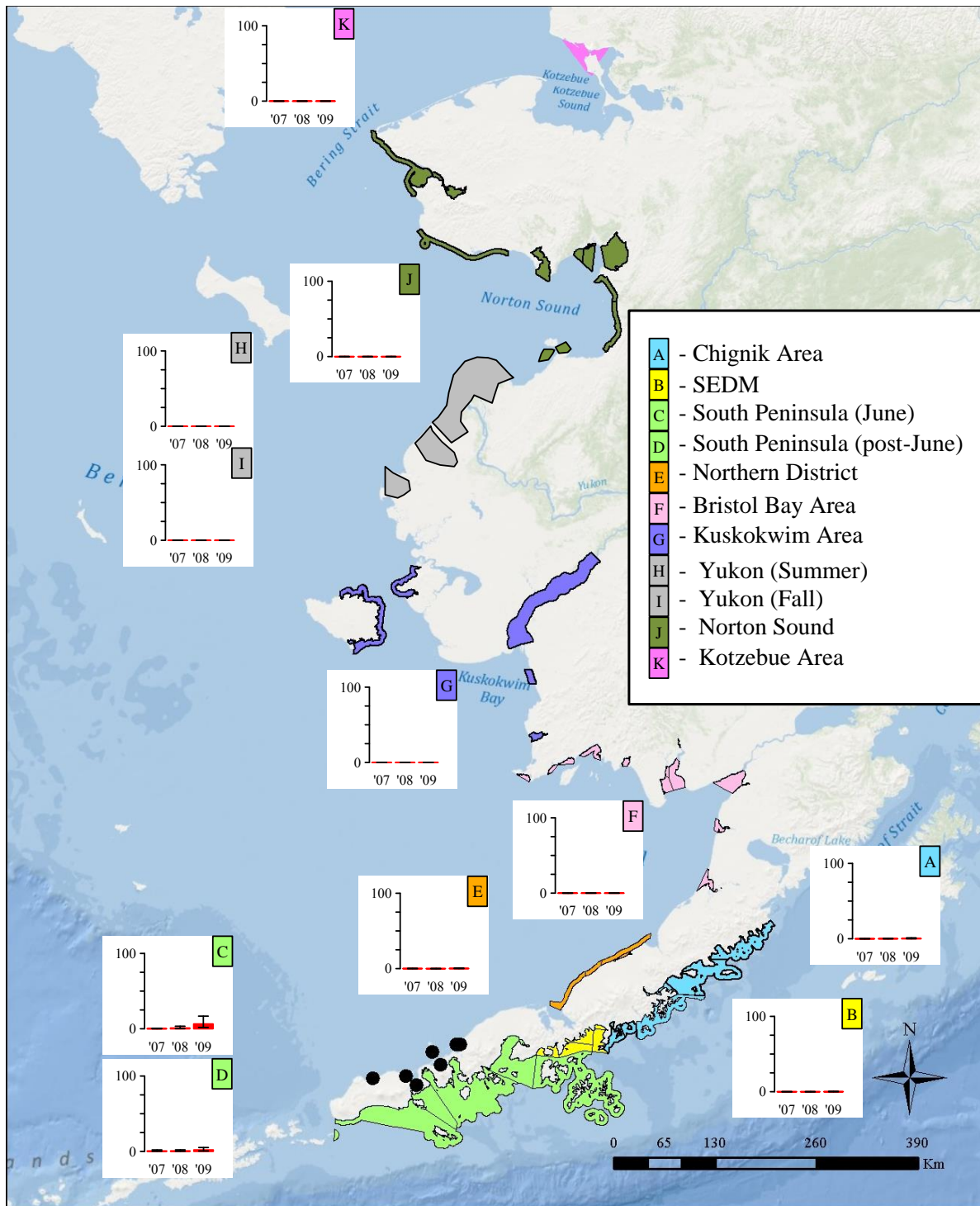


Figure 81.— Median harvest rate estimates (bars) and 90% credibility intervals (whiskers) of chum salmon from the Northwestern reporting group by fishery from 2007 to 2009 for the Western Alaska Salmon Stock Identification Program. Circles indicate populations in the Northwestern reporting group.

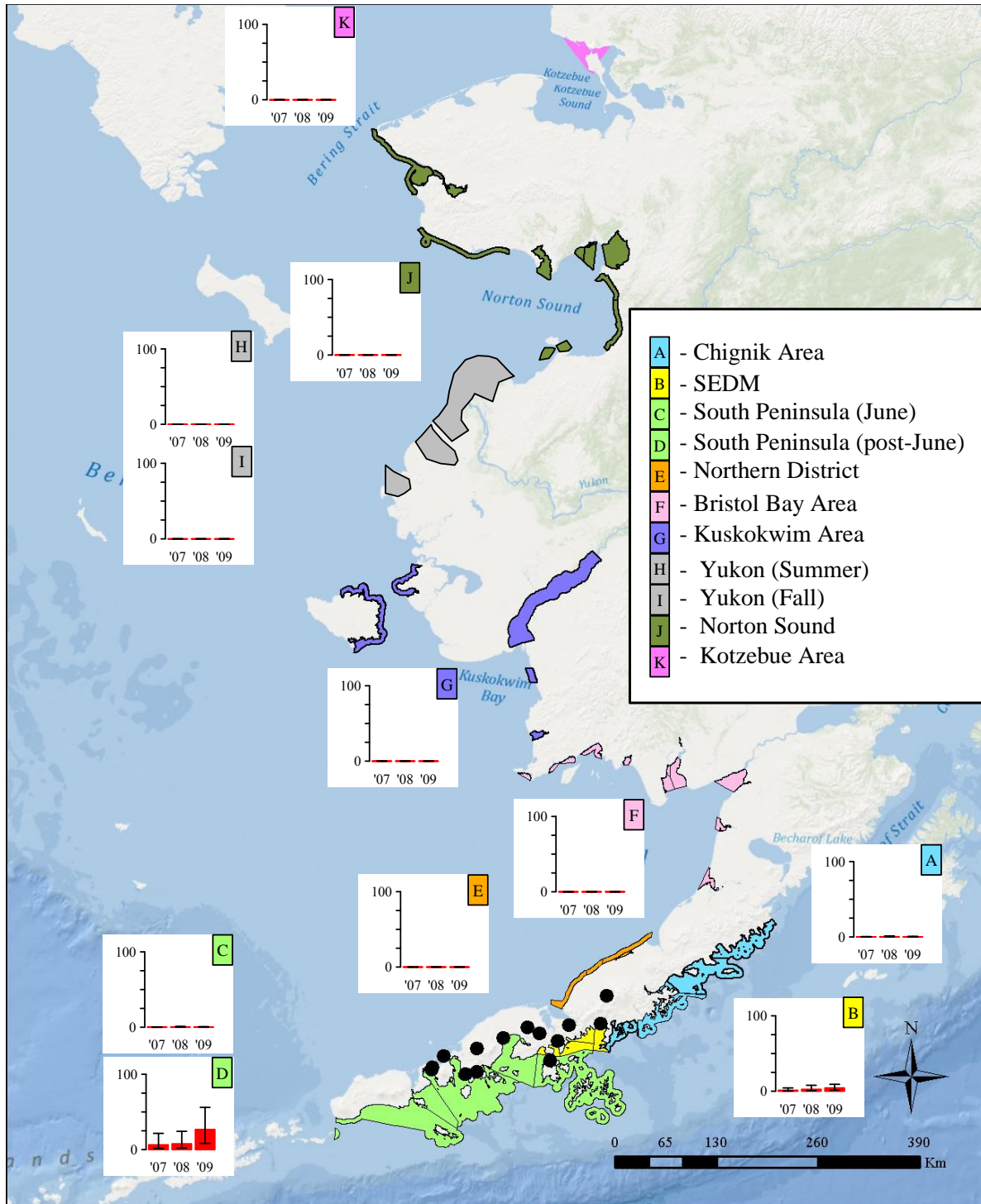


Figure 82.—Median harvest rate estimates (bars) and 90% credibility intervals (whiskers) of chum salmon from the South Peninsula reporting group by fishery from 2007 to 2009 for the Western Alaska Salmon Stock Identification Program. Circles indicate populations in the South Peninsula reporting group.

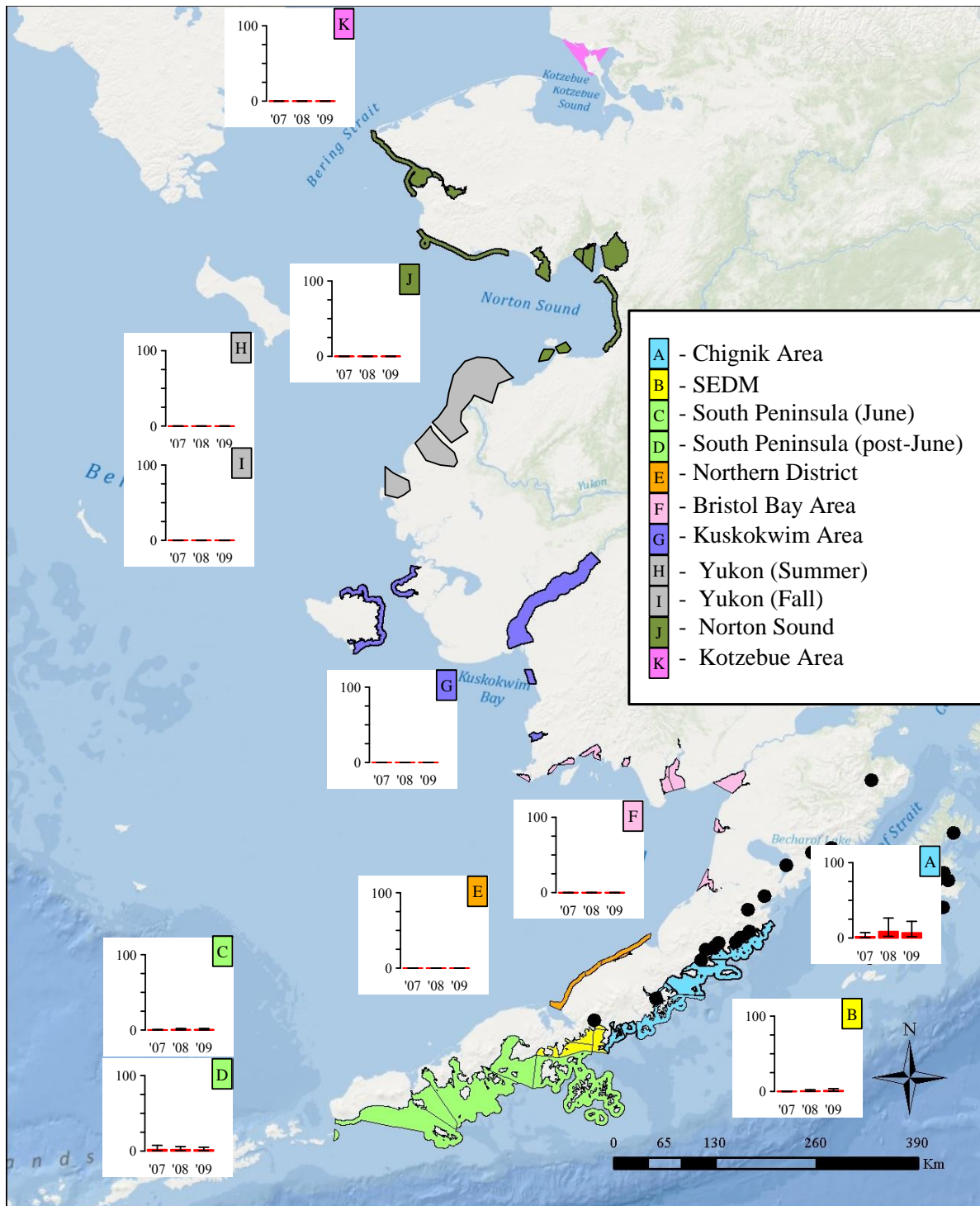


Figure 83.—Median harvest rate estimates (bars) and 90% credibility intervals (whiskers) of chum salmon from the Chignik/Kodiak reporting group by fishery from 2007 to 2009 for the Western Alaska Salmon Stock Identification Program. Circles indicate populations in the Chignik/Kodiak reporting group.

APPENDICES

**APPENDIX A: SUBSISTENCE HARVEST OF CHUM
SALMON IN THE WASSIP AREA**

Appendix A1.—Chum salmon subsistence harvest for Chignik/Kodiak reporting group from 2007 to 2009.

Reporting group	Year	Management Area		Total
		Chignik	Kodiak	
Chignik/Kodiak	2007	165	266	431
Chignik/Kodiak	2008	57	186	243
Chignik/Kodiak	2009	137	345	482

Sources: Chignik Area Management Report (Anderson 2011, Table 32); Kodiak Area Management Report (Menard et al. 2010, Table 13).

Note: Subsistence harvest of chum salmon in the Chignik and Kodiak areas occur in coastal/marine waters.

Appendix A2.—Chum salmon subsistence harvest for Alaska Peninsula from 2007 to 2009.

Harvest community	2007	2008	2009	Reporting Group
Sandpoint local residents	169	368	220	South Peninsula
King Cove local residents	264	369	174	South Peninsula
Cold Bay local residents	3	7	29	South Peninsula
False Pass local residents	0	0	39	Northwestern Dist.
Nelson Lagoon & Port Moller local residents	0	0	0	Northwestern Dist.
Port Heiden local Residents	0	62	0	Northern Dist.
Unalaska local residents ^a	36	115	194	
Adak ^a	0	0	0	
residents from outside AK Peninsula	85	51	5	proportional ^b
residents from outside Unalaska District ^a	0	0	0	
Total	557	972	661	

By Reporting group				
South Peninsula	521	791	428	
Northern District	0	66	0	
NW District	0	0	39	

Source: Hartill and Keyse 2010, Appendix C1 and C3.

Note: Subsistence harvest occurs in coastal/marine waters or below assessment projects.

Note: Subsistence harvest by Unalaska local residents, residents outside of Unalaska District, and Adak are not included because chum salmon baseline did not include populations from the Aleutian Islands.

^a No samples from the Aleutian Islands in the chum salmon genetic baseline, therefore subsistence harvest not included in any WASSIP reporting group.

^b Subsistence harvest by residents outside of Alaska Peninsula was split proportionally to rest of harvest.

Appendix A3.–List of site names from ADF&G Subsistence Division database, whether it is above or below an escapement assessment project for determining what portion of chum salmon subsistence harvest is already accounted for in the escapement estimate.

District/Watershed	ADF&G Alaska Subsistence Fisheries Database	Harvest location in relation to assessment project	
		Above	Below
Ugashik District	Pilot Point		Y
	Pilot Point Village		Y
	Ugashik		Y
	Ugashik Commercial		Y
	Ugashik River		Y
	Ugashik Village		Y
Egegik District	Commercial District		Y
	Egegik		Y
	Egegik Beach		Y
Naknek/Kvichak River System	Alagnak (Branch) River		Y
	Chekok	Y	
	Igiugig	Y	
	Iliamna Community	Y	
	Iliamna Lake	Y	
	Iliamna Lake-General	Y	
	Kijik	Y	
	Kokhanok	Y	
	Kvichak River		Y
	Lake Clark	Y	
	Lake Clark-General	Y	
	Levelock		Y
	Mile 5 North		Y
	Newhalen River	Y	
	Nondalton Village	Y	
	Pedro Bay	Y	
	Pile Bay	Y	
	Port Alsworth	Y	
	Savonoski-North		Y
	Six Mile Lake	Y	
	South Naknek Beach		Y
	Naknek Beach-North		Y
	Naknek Lake	Y	
	Naknek River - Area C		Y

-continued-

District/Watershed	ADF&G Alaska Subsistence Fisheries Database	Harvest location in relation to assessment project	
		Above	Below
Nushagak Watershed	Naknek River General		Y
	Naknek-Kvichak Commercial		Y
	Igushik		Y
	Manokotak Area		Y
	Snake Lake		Y
	Agulowak and Above	Y	
	Aleknagik Area	Y	
	Dragnet		Y
	Hansen Point		Y
	Lake Aleknagik	Y	
	Lower Wood River		Y
	Red Bluff		Y
	Muklung River		Y
	Upper or Lower Wood River	Y	
	Upper Wood River	Y	
	Black Point		Y
	City Dock/Beach		Y
	Clarks Point		Y
	Coffee Point		Y
	Ekuk		Y
	Ekwok Area	Y	
	Grassy Island		Y
	Icicile		Y
	Iowithla River	Y	
	Kanakanak		Y
	Klutuk River	Y	
	Kokwok River	Y	
	Koliganek Area	Y	
	Lewis Point		Y
	Mulchatna River	Y	
	New Stuyahok Area	Y	
	Nushagak Point		Y
	Nushagak Site (Unknown)		Y
	Olsonville		Y

-continued-

District/Watershed	ADF&G Alaska Subsistence Fisheries Database	Harvest location in relation to assessment project	
		Above	Below
Togiak District	Portage Creek Area	Y	
	Protection Point		Y
	Queens Slough		Y
	Scandanavia		Y
	Site location unknown		Y
	Skinner		Y
	Snag Point		Y
	Squaw Creek		Y
	Tulie Point		Y
	Togiak		Y
	Togiak Bay		Y
	Togiak Lake	Y	
	Togiak River		Y
	Twin Hills		Y

Appendix A4.—Chum salmon subsistence harvest for Bristol Bay Area from 2007 to 2009.

Reporting group			Subsistence Harvest		
Regional	Area	Year	Below Esc Proj	Above Esc Proj	Total
CWAK	Bristol Bay	2007	2,584	1,407	3,991
CWAK	Bristol Bay	2008	3,522	2,188	5,710
CWAK	Bristol Bay	2009	3,321	1,731	5,052

Source: Alaska Subsistence Fisheries Database (ADF&G 2012); Sands et al. 2008, Table 27; Jones et al. 2009; and Morstad et al. 2010.

Note: deferred to database if differences between the two sources

Appendix A5.—Chum salmon subsistence harvest for Kuskokwim Area from 2007 to 2009.

Reporting Group	Area	2007	2008	2009
CWAK	Kuskokwim Management Area	76,187	71,177	45,101
CWAK	Mekoryuk ^{a,b}	6,028	6,028	6,028
CWAK	Toksook Bay ^{a,c}	2,235	2,235	2,235
CWAK	Other Bering Sea Coastal Villages ^d	1,920	1,920	1,920
Harvest not in WASSIP sampling plan		69,844	64,834	38,758

Sources: Hamazaki 2011, Table 7; Wolfe et al. 2012.

Note: Subsistence harvest for chum salmon is primarily in the coastal marine waters and below escapement assessment projects.

^a Included in WASSIP sampling plan; therefore, will not be included again in estimate of total run.

^b Subsistence surveys were not conducted in Mekoryuk during this study, but the average subsistence harvest for years with survey data is 6,028 (CV = 0.46) chum salmon. These harvest estimated include 14 years of data between 1990 and 2011 (Hamazaki 2011; Wolfe et al. 2012).

^c Subsistence surveys were not conducted in Toksook Bay during this study, but the average subsistence harvest for years with survey data is 2,235 (CV = 0.79) chum salmon. These harvest estimated include 14 years of data between 1990 and 2011 (Hamazaki 2011; Wolfe et al. 2012).

^d No estimates for chum salmon subsistence harvest for other Bering Sea coastal villages are provided in Hamazaki (2011). Wolfe et al. (2012) estimated the harvest to be 1,920 fish for 2011. No adjustment was made to subsistence harvest for the WASSIP years based on this single estimate.

Appendix A6.—Summer chum salmon subsistence harvest for Yukon River Drainage summer 2007 to 2009.

Location	2007	2008	2009
Coastal District			
Hooper Bay ^a	12,234	12,007	9,195
Scammon Bay ^a	3,887	6,113	3,602
Lower Yukon			
District 1	24,209	22,767	23,998
District 2	23,507	24,291	21,089
District 3	2,056	2,971	1,146
Upper Yukon			
District 4 Yukon River	8,338	4,901	5,588
Koyukuk River total	7,918	8,616	9,370
District 5 Yukon River	8,774	3,487	5,155
Chandalar & Black rivers total	107	50	143
District 6 ^b	2,080	1,449	1,561
Total	93,110	86,652	80,847
Yukon River ^c	76,989	68,532	68,050

Sources: (Jallen et al. 2012; Jallen et al. 2011; Busher et al. 2009)

^a Included in WASSIP sampling plan; therefore, will not be included again in estimate of total run.

^b Includes salmon harvested in personal use fisheries.

^c Includes inriver subsistence harvest only (Lower and Upper Yukon River districts). Does not include Coastal District harvests.

Appendix A7.—Fall chum salmon subsistence harvest for Yukon River Drainage 2007 to 2009.

Location	2007	2008	2009
Coastal District	234	386	158
Hooper Bay	64	329	41
Scammon Bay	170	57	117
Lower Yukon	8,787	8,166	4,417
District 1	4,390	2,823	1,917
District 2	3,472	3,522	1,563
District 3	925	1,821	937
Upper Yukon	92,373	80,986	61,622
District 4 Yukon River	7,358	5,876	6,436
Koyukuk River total	1,218	1,536	946
District 5 Yukon River	52,797	55,695	35,665
Chandalar & Black rivers total	934	1,563	2,418
District 6 ^a	30,066	16,316	16,157
Total	101,394	89,538	66,197

Sources: (Jallen et al. 2012; Jallen et al. 2011; Busher et al. 2009)

^a Includes salmon harvested in personal use fisheries.

Appendix A8.—Chum salmon subsistence harvest for Norton Sound 2007 to 2009.

	District/Subdistrict	2007	2008 ^{a,b}	2009
In WASSIP sampling plan				
	Stebbins	4,980	4,116	1,461
	St. Michael	2,119	2,845	921
	Unalakleet Subdistrict 6	2,094	2,805	2,708
	Shaktoolik Subdistrict 5	465	201	374
	Moses Point Subdistrict 3	2,334	1,284	600
	Golovin Subdistrict 2	4,217	350	1,694
	Nome Area Subdistrict 1	2,938	739	387
	Port Clarence District	4,454	2,499	3,060
Not in WASSIP sampling plan				
	Norton Bay Subdistrict 4	4,333	3,330	3,183
	Cape Woolley	2	36	9
Total		27,936	18,205	14,397
Reporting group				
	CWAK	4,335	3,366	3,192

Source: Soong et al. (2008a,b) and Menard et al. (2011).

Note: Only Norton Bay Subdistrict 4 and Cape Woolley subsistence harvest were not included as part of WASSIP sampling plan in Norton Sound Area.

^a Subsistence surveys were not conducted in Stebbins Area in 2008, but the average subsistence harvest for years with survey data is 4,116 (CV = 0.37) chum salmon. These harvest estimated include 14 years of data between 1994 and 2009 (Menard et al. 2009).

^b Subsistence surveys were not conducted in St. Michael Area in 2008, but the average subsistence harvest for years with survey data is 2,845 (CV = 0.58) chum salmon. These harvest estimated include 14 years of data between 1994 and 2009 (Menard et al. 2009).


Appendix A9.—Chum salmon subsistence harvest Kotzebue Sound 2007 to 2009.

Reporting group	Area	Year	Subsistence Harvest
			Total
Kotzebue Sound	Kotzebue Sound	2007	54,325
Kotzebue Sound	Kotzebue Sound	2008	54,325
Kotzebue Sound	Kotzebue Sound	2009	54,325

Note: Using estimate of Kotzebue harvest from Eggers et al. 2012, which is based on run reconstruction methods in Eggers and Clark 2006. This is for consistency across WASSIP documents.

**APPENDIX B: TERMINAL AND INRIVER COMMERCIAL
HARVEST FOR CHUM SALMON IN THE WASSIP AREA**

Appendix B1.—Commerical harvest of chum salmon in Northwestern District, and Black Hills, Nelson Lagoon, Port Moller Bight, and Herendeen–Moller Bay sections of Northern District not listed in WASSIP sampling report (Eggers et al. 2011).

District	Section	2007	2008	2009	Reporting group
Unalaska	Unalaska and Makushin bays	not in baseline - outside of WASSIP area			
Northwestern	Dublin Bay	0	0	0	Northwestern Dist.
	Urilia Bay	18	1,525	30	Northwestern Dist.
	Swanson Lagoon	5,457	3,574	0	Northwestern Dist.
	Bechevin Bay	22,221	19,812	36,984	Northwestern Dist.
	Izembek-Moffet Bay	68,310	79,229	17,155	Northwestern Dist.
Northern	Black Hills	1,000	16,849	3,167	Northern Dist.
	Nelson Lagoon	8,123	3,321	4,127	Northern Dist.
	Port Moller Bight	0	0	0	Northern Dist.
	Herendeen–Moller Bay	0	40,722	0	Northern Dist.
Northwestern Dist		96,006	104,140	54,169	
Northern Dist		9,123	60,892	7,294	
Grand Total		105,129	165,032	61,463	

Source: Hartill 2009; Tschersich and Russ 2008; Tschersich 2007.

Note: These fish are included the total run estimate of their respective reporting groups as terminal commercial harvest, but not be included in the numerator of any harvest rate calculation. A CV of 0.05 was applied to these harvest estimates as with many of the other commercial fisheries within WASSIP.

Appendix B2.–Yukon River summer chum terminal commercial harvest estimate.

	2007	2008	2009
District 1	106,790	67,459	71,335
District 2	69,432	58,139	86,571
District 3	1	0	0
District 4A	7,304	23,746	4,589
District 4B&C	0	0	0
District 5	0	0	0
District 6	14,674	1,846	7,777
Total	198,201	151,190	170,272
District 1 marine harvest ^a	15,506	5,812	7,570
CWAK terminal harvest ^b	182,695	145,378	162,702

Source: Estensen et al. (2012).

^a District 1 marine harvest is included in the WASSIP sampling plan and harvest data are from WASSIP sampling report (Eggers et al. 2011).

^b Terminal harvest is the total commercial harvest minus District 1 marine harvest and is included in the estimate of total run for chum salmon in the Upper Yukon River reporting group.

Appendix B3.–Yukon River fall chum terminal commercial harvest estimate.

	2007	2008	2009
District 1	38,852	67,704	11,911
District 2	35,826	41,270	12,072
District 3	0	0	0
District 4	0	0	0
District 5	427	4,556	0
District 6	15,572	5,735	1,893
Total Commercial	90,677	119,265	25,876
District 1 marine harvest ^a	38,852	67,726	11,911
Upper Yukon River Terminal harvest ^b	51,825	51,539	13,965

Source: Borba et al. (2009)

^a District 1 marine harvest is included in the WASSIP sampling plan and harvest data are from WASSIP sampling report (Eggers et al. 2011).

^b Terminal harvest is total commercial harvest minus District 1 marine harvest and is included in the estimate of total run for chum salmon in the Upper Yukon River reporting group.

Appendix B4.—Comparison of WASSIP commercial and WASSIP commercial plus terminal or inriver commercial harvest and harvest rates for reporting groups in which terminal or inriver harvest was added to the estimate of total run. Medians and 90% credibility intervals are reported.

Year	Reporting Group	Harvest			Harvest Rate (%)		
		Median	90% CI		Median	90% CI	
			5%	95%		5%	95%
2007	CWAK ^a	2,243,210	2,123,096	2,373,081	26.7	17.5	37.9
	CWAK ^b	2,425,892	2,305,208	2,557,020	28.9	19.0	41.0
	UpperYukon ^a	42,420	39,544	45,498	3.8	3.4	4.3
	UpperYukon ^b	94,213	89,170	99,608	8.5	7.7	9.4
	Northern Dist. ^a	125,371	96,727	160,119	17.3	4.6	46.5
	Northern Dist. ^b	134,495	105,820	169,263	18.6	5.0	49.8
	Northwestern Dist. ^a	11,340	8,842	14,323	0.8	0.2	2.8
	Northwestern Dist. ^b	107,354	99,355	116,047	7.4	1.8	25.7
2008	CWAK ^a	1,635,172	1,572,577	1,701,155	27.2	19.4	36.6
	CWAK ^b	1,780,582	1,716,785	1,847,631	29.7	21.1	39.8
	UpperYukon ^a	68,804	62,538	74,391	7.7	6.8	8.6
	UpperYukon ^b	120,202	112,742	127,399	13.4	12.1	14.9
	Northern Dist. ^a	44,212	31,070	57,357	4.6	1.1	14.9
	Northern Dist. ^b	105,141	91,221	119,123	11.0	2.8	34.9
	Northwestern Dist. ^a	23,109	19,511	26,954	1.7	0.4	5.7
	Northwestern Dist. ^b	127,158	118,142	136,822	9.5	2.4	31.1
2009	CWAK ^a	2,035,188	1,960,415	2,114,685	33.2	23.7	44.1
	CWAK ^b	2,198,001	2,121,987	2,278,699	35.9	25.5	47.6
	UpperYukon ^a	13,388	11,641	16,090	2.3	2.0	2.9
	UpperYukon ^b	27,387	25,255	30,276	4.8	4.2	5.5
	Northern Dist. ^a	63,941	52,357	77,932	7.9	1.9	26.7
	Northern Dist. ^b	71,228	59,645	85,227	8.8	2.2	29.7
	Northwestern Dist. ^a	43,888	38,208	50,105	9.2	2.6	23.7
	Northwestern Dist. ^b	98,064	90,866	105,766	20.5	5.7	52.7

^a WASSIP commercial and subsistence harvest only.

^b WASSIP commercial and subsistence harvest plus terminal or inriver commercial harvest.

**APPENDIX C: ESTIMATED HARVEST OF CHUM
SALMON IN WASSIP TEMPORAL STRATA BY
REPORTING GROUP**

***WHAT STOCKS WERE HARVESTED DURING A GIVEN PERIOD IN
A FINE-SCALE FISHERY?***

Appendix C1.–Eastern District, Commercial, Chignik Area, Westward Region 2007 temporal stratum 1. Reporting group-specific harvest estimates including adjusted median, 90% credibility interval, the probability that reporting group estimate is equal to zero ($P = 0$), mean, and SD.

Stratum 1 (6/25–7/5; Harvest = 7,183; n = 199)						
Reporting Group	Median ^a	90% CI		$P = 0$	Mean	SD
		5%	95%			
Asia	801	533	1,098	0.00	796	172
Kotzebue Sound	0	0	290	0.34	52	104
CWAK	1,442	1,040	1,821	0.00	1,419	238
Upper Yukon	0	0	3	0.47	2	10
Northern Dist.	0	0	52	0.43	7	29
Northwestern Dist.	22	0	215	0.17	55	76
South Peninsula	761	57	1,389	0.01	730	413
Chignik/Kodiak	952	340	1,749	0.00	976	443
East of Kodiak	3,205	2,650	3,673	0.00	3,147	312
Total	7,183				7,184	

Note: Harvest is the number of chum salmon reported to have been harvested and n is the final number of samples used in genetic analyses.

^a Adjusted median; 1.02 times unadjusted median.

Appendix C2.–Eastern District, Commercial, Chignik Area, Westward Region 2007 temporal stratum Late Catch. Reporting group-specific harvest estimates including adjusted median, 90% credibility interval, the probability that reporting group estimate is equal to zero ($P = 0$), mean, and SD.

Reporting Group	Stratum Late Catch (> 8/5; Harvest = 668; n = 0 ^a)					
	Median ^b	90% CI		$P = 0$	Mean	SD
		5%	95%			
Asia	0	0	0	1.00	0	0
Kotzebue Sound	0	0	0	1.00	0	0
CWAK	0	0	0	1.00	0	0
Upper Yukon	0	0	0	1.00	0	0
Northern Dist.	0	0	0	1.00	0	0
Northwestern Dist.	0	0	0	1.00	0	0
South Peninsula	0	0	0	1.00	0	0
Chignik/Kodiak	668	614	724	0.00	668	33
East of Kodiak	0	0	0	1.00	0	0
Total	668				668	

Note: Harvest is the number of chum salmon reported to have been harvested and n is the final number of samples used in genetic analyses.

^a Not part of WASSIP sampling plan. Assumed 100% fish harvested belong to Chignik/Kodiak reporting group.

^b Adjusted median; 1.00 times unadjusted median.

Appendix C3.–Eastern District, Commercial, Chignik Area, Westward Region 2008 temporal stratum 1. Reporting group-specific harvest estimates including adjusted median, 90% credibility interval, the probability that reporting group estimate is equal to zero ($P = 0$), mean, and SD.

Reporting Group	Stratum 1 (6/28–7/31; Harvest = 8,869; n = 0 ^a)					
	Median ^b	90% CI		$P = 0$	Mean	SD
		5%	95%			
Asia	334	184	777	0.00	401	201
Kotzebue Sound	39	0	265	0.38	74	94
CWAK	497	339	603	0.00	465	82
Upper Yukon	5,326	0	6,107	0.15	3,367	2,602
Northern Dist.	350	158	566	0.00	339	126
Northwestern Dist.	77	0	293	0.14	98	99
South Peninsula	270	26	467	0.02	246	137
Chignik/Kodiak	396	122	1,401	0.00	482	397
East of Kodiak	1,581	1,105	7,118	0.00	3,395	2,577
Total	8,870				8,867	

Note: Harvest is the number of chum salmon reported to have been harvested and n is the final number of samples used in genetic analyses.

^a No samples collected. Average stock composition estimate from temporal stratum 1, 2007 and 2009, Eastern District used as proxy.

^b Adjusted median; 1.08 times unadjusted median.

Appendix C4. –Eastern District, Commercial, Chignik Area, Westward Region 2008 temporal stratum Late Catch. Reporting group-specific harvest estimates including adjusted median, 90% credibility interval, the probability that reporting group estimate is equal to zero ($P = 0$), mean, and SD.

Reporting Group	Stratum Late Catch (> 8/1; Harvest = 50,056; n = 0 ^a)					
	Median ^b	90% CI		$P = 0$	Mean	SD
		5%	95%			
Asia	0	0	0	1.00	0	0
Kotzebue Sound	0	0	0	1.00	0	0
CWAK	0	0	0	1.00	0	0
Upper Yukon	0	0	0	1.00	0	0
Northern Dist.	0	0	0	1.00	0	0
Northwestern Dist.	0	0	0	1.00	0	0
South Peninsula	0	0	0	1.00	0	0
Chignik/Kodiak	50,056	46,059	54,235	0.00	50,048	2,489
East of Kodiak	0	0	0	1.00	0	0
Total	50,056				50,048	

Note: Harvest is the number of chum salmon reported to have been harvested and n is the final number of samples used in genetic analyses.

^a Not part of WASSIP sampling plan. Assumed 100% fish harvested belong to Chignik/Kodiak reporting group.

^b Adjusted median; 1.00 times unadjusted median.

Appendix C5.–Eastern District, Commercial, Chignik Area, Westward Region 2009 temporal stratum 1. Reporting group-specific harvest estimates including adjusted median, 90% credibility interval, the probability that reporting group estimate is equal to zero ($P = 0$), mean, and SD.

Stratum 1 (7/1–7/31; Harvest = 20,275; n = 147)						
Reporting Group	Median ^a	90% CI		$P = 0$	Mean	SD
		5%	95%			
Asia	1,115	564	1,811	0.00	1,117	384
Kotzebue Sound	0	0	1	0.95	2	16
CWAK	374	62	948	0.01	413	280
Upper Yukon	0	0	112	0.89	17	80
Northern Dist.	0	0	294	0.74	44	118
Northwestern Dist.	0	0	3	0.93	6	52
South Peninsula	27	0	3,849	0.34	812	1,357
Chignik/Kodiak	17,840	13,636	19,266	0.00	16,930	1,693
East of Kodiak	919	422	1,600	0.00	932	364
Total	20,275				20,273	

Note: Harvest is the number of chum salmon reported to have been harvested and n is the final number of samples used in genetic analyses.

^a Adjusted median; 1.04 times unadjusted median.

Appendix C6.–Eastern District, Commercial, Chignik Area, Westward Region 2009 temporal stratum Late Catch. Reporting group-specific harvest estimates including adjusted median, 90% credibility interval, the probability that reporting group estimate is equal to zero ($P = 0$), mean, and SD.

Reporting Group	Stratum Late Catch (> 8/5; Harvest = 39,525; n = 0 ^a)					
	Median ^b	90% CI		$P = 0$	Mean	SD
		5%	95%			
Asia	0	0	0	1.00	0	0
Kotzebue Sound	0	0	0	1.00	0	0
CWAK	0	0	0	1.00	0	0
Upper Yukon	0	0	0	1.00	0	0
Northern Dist.	0	0	0	1.00	0	0
Northwestern Dist.	0	0	0	1.00	0	0
South Peninsula	0	0	0	1.00	0	0
Chignik/Kodiak	39,525	36,355	42,876	0.00	39,527	1,981
East of Kodiak	0	0	0	1.00	0	0
Total	39,525				39,527	

Note: Harvest is the number of chum salmon reported to have been harvested and n is the final number of samples used in genetic analyses.

^a Not part of WASSIP sampling plan. Assumed 100% fish harvested belong to Chignik/Kodiak reporting group.

^b Adjusted median; 1.00 times unadjusted median.

Appendix C7.—Central District, Commercial, Chignik Area, Westward Region 2007 stratum 1. Reporting group-specific harvest estimates including adjusted median, 90% credibility interval, the probability that reporting group estimate is equal to zero ($P = 0$), mean, and SD.

Reporting Group	Stratum 1 (6/15–7/31; Harvest = 14,091; n = 380)					
	Median ^a	90% CI		$P = 0$	Mean	SD
		5%	95%			
Asia	2,620	2,102	3,174	0.00	2,617	325
Kotzebue Sound	0	0	3	0.93	3	19
CWAK	565	325	874	0.00	576	169
Upper Yukon	0	0	1	0.94	1	12
Northern Dist.	0	0	0	0.96	2	16
Northwestern Dist.	0	0	0	0.95	1	10
South Peninsula	2,328	1,362	3,412	0.00	2,341	625
Chignik/Kodiak	5,104	3,934	6,263	0.00	5,081	709
East of Kodiak	3,473	2,865	4,123	0.00	3,468	383
Total	14,090				14,090	

Note: Harvest is the number of chum salmon reported to have been harvested and n is the final number of samples used in genetic analyses.

^a Adjusted median; 1.01 times unadjusted median.

Appendix C8.—Central District, Commercial, Chignik Area, Westward Region 2007 temporal stratum Late Catch. Reporting group-specific harvest estimates including adjusted median, 90% credibility interval, the probability that reporting group estimate is equal to zero ($P = 0$), mean, and SD.

Reporting Group	Stratum Late Catch (> 8/5; Harvest = 5,504; n = 0 ^a)					
	Median ^b	90% CI		$P = 0$	Mean	SD
		5%	95%			
Asia	0	0	0	1.00	0	0
Kotzebue Sound	0	0	0	1.00	0	0
CWAK	0	0	0	1.00	0	0
Upper Yukon	0	0	0	1.00	0	0
Northern Dist.	0	0	0	1.00	0	0
Northwestern Dist.	0	0	0	1.00	0	0
South Peninsula	0	0	0	1.00	0	0
Chignik/Kodiak	5,504	5,061	5,966	0.00	5,503	275
East of Kodiak	0	0	0	1.00	0	0
Total	5,504				5,503	

Note: Harvest is the number of chum salmon reported to have been harvested and n is the final number of samples used in genetic analyses.

^a Not part of WASSIP sampling plan. Assumed 100% fish harvested belong to Chignik/Kodiak reporting group.

^b Adjusted median; 1.00 times unadjusted median.

Appendix C9.—Central District, Commercial, Chignik Area, Westward Region 2008 temporal stratum 1. Reporting group-specific harvest estimates including adjusted median, 90% credibility interval, the probability that reporting group estimate is equal to zero ($P = 0$), mean, and SD.

Reporting Group	Stratum 1 (6/24–7/31; Harvest = 30,172; n = 397)					
	Median ^a	90% CI		$P = 0$	Mean	SD
		5%	95%			
Asia	2,073	1,437	2,775	0.00	2,061	409
Kotzebue Sound	0	0	2	0.94	4	33
CWAK	666	323	1,137	0.00	682	251
Upper Yukon	0	0	2	0.94	2	17
Northern Dist.	0	0	11	0.92	8	54
Northwestern Dist.	0	0	2	0.94	4	27
South Peninsula	379	0	3,770	0.15	949	1,279
Chignik/Kodiak	25,900	21,843	28,232	0.00	25,293	1,927
East of Kodiak	1,153	425	2,070	0.00	1,169	514
Total	30,171				30,172	

Note: Harvest is the number of chum salmon reported to have been harvested and n is the final number of samples used in genetic analyses.

^a Adjusted median; 1.02 times unadjusted median.

Appendix C10.—Central District, Commercial, Chignik Area, Westward Region 2008 temporal stratum Late Catch. Reporting group-specific harvest estimates including adjusted median, 90% credibility interval, the probability that reporting group estimate is equal to zero ($P = 0$), mean, and SD.

Reporting Group	Stratum Late Catch (> 8/5; Harvest = 9,958; n = 0 ^a)					
	Median ^b	90% CI		$P = 0$	Mean	SD
		5%	95%			
Asia	0	0	0	1.00	0	0
Kotzebue Sound	0	0	0	1.00	0	0
CWAK	0	0	0	1.00	0	0
Upper Yukon	0	0	0	1.00	0	0
Northern Dist.	0	0	0	1.00	0	0
Northwestern Dist.	0	0	0	1.00	0	0
South Peninsula	0	0	0	1.00	0	0
Chignik/Kodiak	9,958	9,163	10,800	0.00	9,958	497
East of Kodiak	0	0	0	1.00	0	0
Total	9,958				9,958	

Note: Harvest is the number of chum salmon reported to have been harvested and n is the final number of samples used in genetic analyses.

^a Not part of WASSIP sampling plan. Assumed 100% fish harvested belong to Chignik/Kodiak reporting group.

^b Adjusted median; 1.00 times unadjusted median.

Appendix C11.—Central District, Commercial, Chignik Area, Westward Region 2009 temporal stratum 1. Reporting group-specific harvest estimates including adjusted median, 90% credibility interval, the probability that reporting group estimate is equal to zero ($P = 0$), mean, and SD.

Reporting Group	Stratum 1 (6/20–7/31; Harvest = 42,186; n = 362)					
	Median ^a	90% CI		$P = 0$	Mean	SD
		5%	95%			
Asia	4,822	3,602	6,142	0.00	4,797	772
Kotzebue Sound	0	0	1	0.94	3	26
CWAK	1,375	746	2,199	0.00	1,398	445
Upper Yukon	0	0	1	0.94	2	18
Northern Dist.	0	0	36	0.90	10	57
Northwestern Dist.	0	0	46	0.90	18	118
South Peninsula	0	0	3,483	0.64	547	1,354
Chignik/Kodiak	33,775	29,226	36,795	0.00	33,186	2,353
East of Kodiak	2,214	1,394	3,249	0.00	2,234	569
Total	42,186				42,195	

Note: Harvest is the number of chum salmon reported to have been harvested and n is the final number of samples used in genetic analyses.

^a Adjusted median; 1.01 times unadjusted median.

Appendix C12.—Central District, Commercial, Chignik Area, Westward Region 2009 temporal stratum Late Catch. Reporting group-specific harvest estimates including adjusted median, 90% credibility interval, the probability that reporting group estimate is equal to zero ($P = 0$), mean, and SD.

Reporting Group	Stratum Late Catch (> 8/5; Harvest = 19,963; n = 0 ^a)					
	Median ^b	90% CI		$P = 0$	Mean	SD
		5%	95%			
Asia	0	0	0	1.00	0	0
Kotzebue Sound	0	0	0	1.00	0	0
CWAK	0	0	0	1.00	0	0
Upper Yukon	0	0	0	1.00	0	0
Northern Dist.	0	0	0	1.00	0	0
Northwestern Dist.	0	0	0	1.00	0	0
South Peninsula	0	0	0	1.00	0	0
Chignik/Kodiak	19,963	18,361	21,644	0.00	19,958	1,001
East of Kodiak	0	0	0	1.00	0	0
Total	19,963				19,958	

Note: Harvest is the number of chum salmon reported to have been harvested and n is the final number of samples used in genetic analyses.

^a Not part of WASSIP sampling plan. Assumed 100% fish harvested belong to Chignik/Kodiak reporting group.

^b Adjusted median; 1.00 times unadjusted median.

Appendix C13.–Chignik Bay District, Commercial, Chignik Area, Westward Region 2007 temporal stratum 1. Reporting group-specific harvest estimates including adjusted median, 90% credibility interval, the probability that reporting group estimate is equal to zero ($P = 0$), mean, and SD.

Reporting Group	Stratum 1 (Season; Harvest = 3,828; n = 0 ^a)					
	Median ^b	90% CI		$P = 0$	Mean	SD
		5%	95%			
Asia	0	0	0	1.00	0	0
Kotzebue Sound	0	0	0	1.00	0	0
CWAK	0	0	0	1.00	0	0
Upper Yukon	0	0	0	1.00	0	0
Northern Dist.	0	0	0	1.00	0	0
Northwestern Dist.	0	0	0	1.00	0	0
South Peninsula	0	0	0	1.00	0	0
Chignik/Kodiak	3,828	3,521	4,149	0.00	3,827	191
East of Kodiak	0	0	0	1.00	0	0
Total	3,828				3,827	

Note: Harvest is the number of chum salmon reported to have been harvested and n is the final number of samples used in genetic analyses.

^a Not part of WASSIP sampling plan. Assumed 100% fish harvested belong to Chignik/Kodiak reporting group.

^b Adjusted median; 1.00 times unadjusted median.

Appendix C14.—Chignik Bay District, Commercial, Chignik Area, Westward Region 2008 temporal stratum 1. Reporting group-specific harvest estimates including adjusted median, 90% credibility interval, the probability that reporting group estimate is equal to zero ($P = 0$), mean, and SD.

Reporting Group	Stratum 1 (Season; Harvest = 13,453; n = 0 ^a)					
	Median ^b	90% CI		$P = 0$	Mean	SD
		5%	95%			
Asia	0	0	0	1.00	0	0
Kotzebue Sound	0	0	0	1.00	0	0
CWAK	0	0	0	1.00	0	0
Upper Yukon	0	0	0	1.00	0	0
Northern Dist.	0	0	0	1.00	0	0
Northwestern Dist.	0	0	0	1.00	0	0
South Peninsula	0	0	0	1.00	0	0
Chignik/Kodiak	13,453	12,374	14,592	0.00	13,453	675
East of Kodiak	0	0	0	1.00	0	0
Total	13,453				13,453	

Note: Harvest is the number of chum salmon reported to have been harvested and n is the final number of samples used in genetic analyses.

^a Not part of WASSIP sampling plan. Assumed 100% fish harvested belong to Chignik/Kodiak reporting group.

^b Adjusted median; 1.00 times unadjusted median.

Appendix C15.–Chignik Bay District, Commercial, Chignik Area, Westward Region 2009 temporal stratum 1. Reporting group-specific harvest estimates including adjusted median, 90% credibility interval, the probability that reporting group estimate is equal to zero ($P = 0$), mean, and SD.

Reporting Group	Stratum 1 (Season; Harvest = 14,552; n = 0 ^a)					
	Median ^b	90% CI		$P = 0$	Mean	SD
		5%	95%			
Asia	0	0	0	1.00	0	0
Kotzebue Sound	0	0	0	1.00	0	0
CWAK	0	0	0	1.00	0	0
Upper Yukon	0	0	0	1.00	0	0
Northern Dist.	0	0	0	1.00	0	0
Northwestern Dist.	0	0	0	1.00	0	0
South Peninsula	0	0	0	1.00	0	0
Chignik/Kodiak	14,552	13,384	15,772	0.00	14,544	725
East of Kodiak	0	0	0	1.00	0	0
Total	14,552				14,544	

Note: Harvest is the number of chum salmon reported to have been harvested and n is the final number of samples used in genetic analyses.

^a Not part of WASSIP sampling plan. Assumed 100% fish harvested belong to Chignik/Kodiak reporting group.

^b Adjusted median; 1.00 times unadjusted median.

Appendix C16.—Western and Perryville districts, Commercial, Chignik Area, Westward Region 2007 temporal stratum 1. Reporting group-specific harvest estimates including adjusted median, 90% credibility interval, the probability that reporting group estimate is equal to zero ($P = 0$), mean, and SD.

Stratum 1 (7/9–7/31; Harvest = 32,016; n = 469)						
Reporting Group	Median ^a	90% CI		$P = 0$	Mean	SD
		5%	95%			
Asia	7,040	5,756	8,103	0.00	6,882	713
Kotzebue Sound	0	0	2	0.93	2	15
CWAK	730	356	1,208	0.00	738	262
Upper Yukon	250	84	522	0.00	265	138
Northern Dist.	0	0	497	0.61	97	180
Northwestern Dist.	0	0	304	0.54	63	111
South Peninsula	284	0	3,888	0.22	1,063	1,383
Chignik/Kodiak	15,422	11,527	17,426	0.00	14,803	1,784
East of Kodiak	8,291	6,788	9,516	0.00	8,101	829
Total	32,017				32,014	

Note: Harvest is the number of chum salmon reported to have been harvested and n is the final number of samples used in genetic analyses.

^a Adjusted median; 1.03 times unadjusted median.

Appendix C17.–Western and Perryville districts, Commercial, Chignik Area, Westward Region 2007 temporal stratum Late Catch. Reporting group-specific harvest estimates including adjusted median, 90% credibility interval, the probability that reporting group estimate is equal to zero ($P = 0$), mean, and SD.

Reporting Group	Stratum Late Catch (> 8/1; Harvest = 15,262; n = 0 ^a)					
	Median ^b	90% CI		$P = 0$	Mean	SD
		5%	95%			
Asia	0	0	0	1.00	0	0
Kotzebue Sound	0	0	0	1.00	0	0
CWAK	0	0	0	1.00	0	0
Upper Yukon	0	0	0	1.00	0	0
Northern Dist.	0	0	0	1.00	0	0
Northwestern Dist.	0	0	0	1.00	0	0
South Peninsula	0	0	0	1.00	0	0
Chignik/Kodiak	15,262	14,042	16,551	0.00	15,263	765
East of Kodiak	0	0	0	1.00	0	0
Total	15,262				15,263	

Note: Harvest is the number of chum salmon reported to have been harvested and n is the final number of samples used in genetic analyses.

^a Not part of WASSIP sampling plan. Assumed 100% fish harvested belong to Chignik/Kodiak reporting group.

^b Adjusted median; 1.00 times unadjusted median.

Appendix C18.—Western and Perryville districts, Commercial, Chignik Area, Westward Region 2008 temporal stratum 1. Reporting group-specific harvest estimates including adjusted median, 90% credibility interval, the probability that reporting group estimate is equal to zero ($P = 0$), mean, and SD.

Stratum 1 (6/24–7/31; Harvest = 57,333; n = 395)						
Reporting Group	Median ^a	90% CI		$P = 0$	Mean	SD
		5%	95%			
Asia	14,613	12,119	17,029	0.00	14,480	1,491
Kotzebue Sound	0	0	1	0.47	4	37
CWAK	3,572	2,094	5,035	0.00	3,543	885
Upper Yukon	0	0	0	0.48	2	15
Northern Dist.	0	0	1,495	0.38	223	526
Northwestern Dist.	816	243	1,749	0.01	877	480
South Peninsula	6,737	0	13,528	0.03	6,828	3,895
Chignik/Kodiak	29,893	22,315	36,860	0.00	29,540	4,381
East of Kodiak	1,702	637	3,562	0.00	1,840	923
Total	57,333				57,337	

Note: Harvest is the number of chum salmon reported to have been harvested and n is the final number of samples used in genetic analyses.

^a Adjusted median; 1.01 times unadjusted median.

Appendix C19.–Western and Perryville districts, Commercial, Chignik Area, Westward Region 2008 temporal stratum Late Catch. Reporting group-specific harvest estimates including adjusted median, 90% credibility interval, the probability that reporting group estimate is equal to zero ($P = 0$), mean, and SD.

Reporting Group	Stratum Late Catch (> 8/1; Harvest = 39,484; n = 0 ^a)					
	Median ^b	90% CI		$P = 0$	Mean	SD
		5%	95%			
Asia	0	0	0	1.00	0	0
Kotzebue Sound	0	0	0	1.00	0	0
CWAK	0	0	0	1.00	0	0
Upper Yukon	0	0	0	1.00	0	0
Northern Dist.	0	0	0	1.00	0	0
Northwestern Dist.	0	0	0	1.00	0	0
South Peninsula	0	0	0	1.00	0	0
Chignik/Kodiak	39,484	36,351	42,831	0.00	39,498	1,974
East of Kodiak	0	0	0	1.00	0	0
Total	39,484				39,498	

Note: Harvest is the number of chum salmon reported to have been harvested and n is the final number of samples used in genetic analyses.

^a Not part of WASSIP sampling plan. Assumed 100% fish harvested belong to Chignik/Kodiak reporting group.

^b Adjusted median; 1.00 times unadjusted median.

Appendix C20.—Western and Perryville districts, Commercial, Chignik Area, Westward Region 2009 temporal stratum 1. Reporting group-specific harvest estimates including adjusted median, 90% credibility interval, the probability that reporting group estimate is equal to zero ($P = 0$), mean, and SD.

Stratum 1 (6/22–7/31; Harvest = 103,900; n = 384)						
Reporting Group	Median ^a	90% CI		$P = 0$	Mean	SD
		5%	95%			
Asia	20,006	16,101	23,857	0.00	19,815	2,365
Kotzebue Sound	0	0	2,893	0.76	392	1,022
CWAK	30,488	25,152	35,383	0.00	30,131	3,118
Upper Yukon	0	0	569	0.83	74	264
Northern Dist.	810	0	2,848	0.32	968	1,007
Northwestern Dist.	1,836	595	3,586	0.01	1,912	929
South Peninsula	5,475	25	13,055	0.03	5,865	3,940
Chignik/Kodiak	40,808	31,490	48,444	0.00	40,137	5,162
East of Kodiak	4,477	2,706	7,305	0.00	4,625	1,445
Total	103,900				103,919	

Note: Harvest is the number of chum salmon reported to have been harvested and n is the final number of samples used in genetic analyses.

^a Adjusted median; 1.01 times unadjusted median.

Appendix C21.–Western and Perryville districts, Commercial, Chignik Area, Westward Region 2009 temporal stratum Late Catch. Reporting group-specific harvest estimates including adjusted median, 90% credibility interval, the probability that reporting group estimate is equal to zero ($P = 0$), mean, and SD.

Stratum Late Catch (> 8/1; Harvest = 14,898; n = 0 ^a)						
Reporting Group	Median ^b	90% CI		$P = 0$	Mean	SD
		5%	95%			
Asia	0	0	0	1.00	0	0
Kotzebue Sound	0	0	0	1.00	0	0
CWAK	0	0	0	1.00	0	0
Upper Yukon	0	0	0	1.00	0	0
Northern Dist.	0	0	0	1.00	0	0
Northwestern Dist.	0	0	0	1.00	0	0
South Peninsula	0	0	0	1.00	0	0
Chignik/Kodiak	14,898	13,700	16,152	0.00	14,897	746
East of Kodiak	0	0	0	1.00	0	0
Total	14,898				14,897	

Note: Harvest is the number of chum salmon reported to have been harvested and n is the final number of samples used in genetic analyses.

^a Not part of WASSIP sampling plan. Assumed 100% fish harvested belong to Chignik/Kodiak reporting group.

^b Adjusted median; 1.00 times unadjusted median.

Appendix C22.–Southeastern District Mainland (SEDM) area, Commercial, Southeastern District, Alaska Peninsula Area, Westward Region 2007 temporal stratum Late Catch. Reporting group-specific harvest estimates including adjusted median, 90% credibility interval, the probability that reporting group estimate is equal to zero ($P = 0$), mean, and SD.

Reporting Group	Stratum Late Catch (> 8/1; Harvest = 40,649; n = 0 ^a)					
	Median ^b	90% CI		$P = 0$	Mean	SD
		5%	95%			
Asia	0	0	0	1.00	0	0
Kotzebue Sound	0	0	0	1.00	0	0
CWAK	0	0	0	1.00	0	0
Upper Yukon	0	0	0	1.00	0	0
Northern Dist.	0	0	0	1.00	0	0
Northwestern Dist.	0	0	0	1.00	0	0
South Peninsula	40,649	37,387	44,056	0.00	40,639	2,029
Chignik/Kodiak	0	0	0	1.00	0	0
East of Kodiak	0	0	0	1.00	0	0
Total	40,649				40,639	

Note: Harvest is the number of chum salmon reported to have been harvested and n is the final number of samples used in genetic analyses.

^a Not part of WASSIP sampling plan. Assumed 100% fish harvested belong to South Peninsula reporting group.

^b Adjusted median; 1.00 times unadjusted median.

Appendix C23.–Southeastern District Mainland (SEDM) area, Commercial, Southeastern District, Alaska Peninsula Area, Westward Region 2008 temporal stratum 1. Reporting group-specific harvest estimates including adjusted median, 90% credibility interval, the probability that reporting group estimate is equal to zero ($P = 0$), mean, and SD.

Stratum 1 (7/3–7/31; Harvest = 26,347; n = 396)						
Reporting Group	Median ^a	90% CI		$P = 0$	Mean	SD
		5%	95%			
Asia	458	209	836	0.00	480	194
Kotzebue Sound	0	0	0	0.95	1	10
CWAK	259	91	547	0.00	280	143
Upper Yukon	0	0	1	0.94	3	23
Northern Dist.	0	0	70	0.89	15	76
Northwestern Dist.	0	0	57	0.90	15	77
South Peninsula	10,638	7,790	13,546	0.00	10,598	1,752
Chignik/Kodiak	14,478	11,380	17,451	0.00	14,385	1,848
East of Kodiak	514	235	1,145	0.00	573	284
Total	26,347				26,350	

Note: Harvest is the number of chum salmon reported to have been harvested and n is the final number of samples used in genetic analyses.

^a Adjusted median; 1.01 times unadjusted median.

Appendix C24.–Southeastern District Mainland (SEDM) area, Commercial, Southeastern District, Alaska Peninsula Area, Westward Region 2008 temporal stratum Late Catch. Reporting group-specific harvest estimates including adjusted median, 90% credibility interval, the probability that reporting group estimate is equal to zero ($P = 0$), mean, and SD.

Reporting Group	Stratum Late Catch (> 8/1; Harvest = 45,916; n = 0 ^a)					
	Median ^b	90% CI		$P = 0$	Mean	SD
		5%	95%			
Asia	0	0	0	1.00	0	0
Kotzebue Sound	0	0	0	1.00	0	0
CWAK	0	0	0	1.00	0	0
Upper Yukon	0	0	0	1.00	0	0
Northern Dist.	0	0	0	1.00	0	0
Northwestern Dist.	0	0	0	1.00	0	0
South Peninsula	45,916	42,247	49,821	0.00	45,922	2,303
Chignik/Kodiak	0	0	0	1.00	0	0
East of Kodiak	0	0	0	1.00	0	0
Total	45,916				45,922	

Note: Harvest is the number of chum salmon reported to have been harvested and n is the final number of samples used in genetic analyses.

^a Not part of WASSIP sampling plan. Assumed 100% fish harvested belong to South Peninsula reporting group.

^b Adjusted median; 1.00 times unadjusted median.

Appendix C25.–Southeastern District Mainland (SEDM) area, Commercial, Southeastern District, Alaska Peninsula Area, Westward Region 2009 temporal stratum 1. Reporting group-specific harvest estimates including adjusted median, 90% credibility interval, the probability that reporting group estimate is equal to zero ($P = 0$), mean, and SD.

Stratum 1 (7/1–7/31; Harvest = 50,968; n = 393)						
Reporting Group	Median ^a	90% CI		$P = 0$	Mean	SD
		5%	95%			
Asia	693	247	1,405	0.00	738	360
Kotzebue Sound	0	0	4	0.93	6	47
CWAK	898	434	1,593	0.00	936	358
Upper Yukon	0	0	1	0.95	2	18
Northern Dist.	0	0	362	0.87	52	221
Northwestern Dist.	432	0	1,202	0.11	487	386
South Peninsula	17,260	11,496	24,688	0.00	17,479	4,051
Chignik/Kodiak	30,411	22,665	36,605	0.00	29,972	4,254
East of Kodiak	1,274	705	2,072	0.00	1,313	431
Total	50,968				50,985	

Note: Harvest is the number of chum salmon reported to have been harvested and n is the final number of samples used in genetic analyses.

^a Adjusted median; 1.01 times unadjusted median.

Appendix C26.—Southeastern District Mainland (SEDM) area, Commercial, Southeastern District, Alaska Peninsula Area, Westward Region 2009 temporal stratum Late Catch. Reporting group-specific harvest estimates including adjusted median, 90% credibility interval, the probability that reporting group estimate is equal to zero ($P = 0$), mean, and SD.

Reporting Group	Stratum Late Catch (> 8/4; Harvest = 99,953; n = 0 ^a)					
	Median ^b	90% CI		$P = 0$	Mean	SD
		5%	95%			
Asia	0	0	0	1.00	0	0
Kotzebue Sound	0	0	0	1.00	0	0
CWAK	0	0	0	1.00	0	0
Upper Yukon	0	0	0	1.00	0	0
Northern Dist.	0	0	0	1.00	0	0
Northwestern Dist.	0	0	0	1.00	0	0
South Peninsula	99,953	91,928	108,373	0.00	99,938	4,991
Chignik/Kodiak	0	0	0	1.00	0	0
East of Kodiak	0	0	0	1.00	0	0
Total	99,953				99,938	

Note: Harvest is the number of chum salmon reported to have been harvested and n is the final number of samples used in genetic analyses.

^a Not part of WASSIP sampling plan. Assumed 100% fish harvested belong to South Peninsula reporting group.

^b Adjusted median; 1.00 times unadjusted median.

Appendix C27.–June, Shumagin Islands Section (statistical areas all 282-XX), Commercial, South Alaska Peninsula, Alaska Peninsula Area, Westward Region 2007 temporal stratum 1. Reporting group-specific harvest estimates including adjusted median, 90% credibility interval, the probability that reporting group estimate is equal to zero ($P = 0$), mean, and SD.

Stratum 1 (6/7–6/10; Harvest = 36,967; n = 399)						
Reporting Group	Median ^a	90% CI		$P = 0$	Mean	SD
		5%	95%			
Asia	10,938	9,200	12,575	0.00	10,839	1,028
Kotzebue Sound	0	0	529	0.78	70	203
CWAK	12,960	11,042	14,757	0.00	12,840	1,131
Upper Yukon	319	0	776	0.12	338	243
Northern Dist.	0	0	393	0.85	46	165
Northwestern Dist.	255	0	667	0.11	280	210
South Peninsula	0	0	105	0.81	16	67
Chignik/Kodiak	26	0	757	0.41	189	270
East of Kodiak	12,469	10,645	14,161	0.00	12,349	1,073
Total	36,967				36,967	

Note: Harvest is the number of chum salmon reported to have been harvested and n is the final number of samples used in genetic analyses.

^a Adjusted median; 1.01 times unadjusted median.

Appendix C28.–June, Shumagin Islands Section (statistical areas all 282-XX), Commercial, South Alaska Peninsula, Alaska Peninsula Area, Westward Region 2007 temporal stratum 2. Reporting group-specific harvest estimates including adjusted median, 90% credibility interval, the probability that reporting group estimate is equal to zero ($P = 0$), mean, and SD.

Stratum 2 (6/12–6/15; Harvest = 30,625; n = 399)						
Reporting Group	Median ^a	90% CI		$P = 0$	Mean	SD
		5%	95%			
Asia	6,643	5,479	7,858	0.00	6,621	726
Kotzebue Sound	809	305	1,545	0.00	848	382
CWAK	14,626	12,767	16,415	0.00	14,542	1,107
Upper Yukon	237	0	589	0.09	258	181
Northern Dist.	0	0	1	0.94	2	20
Northwestern Dist.	0	0	2	0.94	3	24
South Peninsula	753	347	1,270	0.00	770	282
Chignik/Kodiak	142	30	524	0.00	191	187
East of Kodiak	7,414	6,174	8,683	0.00	7,384	762
Total	30,624				30,619	

Note: Harvest is the number of chum salmon reported to have been harvested and n is the final number of samples used in genetic analyses.

^a Adjusted median; 1.01 times unadjusted median.

Appendix C29.–June, Shumagin Islands Section (statistical areas all 282-XX), Commercial, South Alaska Peninsula, Alaska Peninsula Area, Westward Region 2007 temporal stratum 3. Reporting group-specific harvest estimates including adjusted median, 90% credibility interval, the probability that reporting group estimate is equal to zero ($P = 0$), mean, and SD.

Stratum 3 (6/17–6/20; Harvest = 26,110; n = 400)						
Reporting Group	Median ^a	90% CI		$P = 0$	Mean	SD
		5%	95%			
Asia	4,639	3,703	5,610	0.00	4,616	580
Kotzebue Sound	0	0	13	0.87	4	23
CWAK	17,748	15,840	19,450	0.00	17,601	1,099
Upper Yukon	330	0	745	0.09	346	224
Northern Dist.	0	0	1	0.95	2	17
Northwestern Dist.	0	0	0	0.96	1	8
South Peninsula	530	0	1,079	0.23	482	373
Chignik/Kodiak	91	5	1,050	0.01	295	369
East of Kodiak	2,772	2,082	3,530	0.00	2,768	442
Total	26,110				26,115	

Note: Harvest is the number of chum salmon reported to have been harvested and n is the final number of samples used in genetic analyses.

^a Adjusted median; 1.01 times unadjusted median.

Appendix C30.–June, Shumagin Islands Section (statistical areas all 282-XX), Commercial, South Alaska Peninsula, Alaska Peninsula Area, Westward Region 2007 temporal stratum 4. Reporting group-specific harvest estimates including adjusted median, 90% credibility interval, the probability that reporting group estimate is equal to zero ($P = 0$), mean, and SD.

Stratum 4 (6/22–6/25; Harvest = 26,341; n = 411)						
Reporting Group	Median ^a	90% CI		$P = 0$	Mean	SD
		5%	95%			
Asia	7,161	6,019	8,316	0.00	7,128	700
Kotzebue Sound	0	0	6	0.93	7	44
CWAK	12,394	10,827	13,872	0.00	12,314	925
Upper Yukon	331	112	676	0.00	353	175
Northern Dist.	0	0	302	0.81	40	119
Northwestern Dist.	0	0	1	0.95	2	15
South Peninsula	514	215	1,229	0.00	585	328
Chignik/Kodiak	1,410	618	2,160	0.00	1,398	470
East of Kodiak	4,531	3,593	5,506	0.00	4,517	582
Total	26,341				26,344	

Note: Harvest is the number of chum salmon reported to have been harvested and n is the final number of samples used in genetic analyses.

^a Adjusted median; 1.01 times unadjusted median.

Appendix C31.–June, Shumagin Islands Section (statistical areas all 282-XX), Commercial, South Alaska Peninsula, Alaska Peninsula Area, Westward Region 2007 temporal stratum 5. Reporting group-specific harvest estimates including adjusted median, 90% credibility interval, the probability that reporting group estimate is equal to zero ($P = 0$), mean, and SD.

Stratum 5 (6/27–6/29; Harvest = 24,162; n = 397)						
Reporting Group	Median ^a	90% CI		$P = 0$	Mean	SD
		5%	95%			
Asia	8,496	7,203	9,604	0.00	8,368	732
Kotzebue Sound	0	0	793	0.64	167	286
CWAK	6,247	5,092	7,282	0.00	6,157	667
Upper Yukon	259	83	553	0.00	278	147
Northern Dist.	0	0	69	0.82	10	35
Northwestern Dist.	509	232	889	0.00	522	203
South Peninsula	811	82	2,726	0.03	1,049	830
Chignik/Kodiak	2,230	442	3,366	0.00	2,079	872
East of Kodiak	5,610	4,575	6,563	0.00	5,534	606
Total	24,162				24,164	

Note: Harvest is the number of chum salmon reported to have been harvested and n is the final number of samples used in genetic analyses.

^a Adjusted median; 1.02 times unadjusted median.

Appendix C32.–June, Shumagin Islands Section (statistical areas all 282-XX), Commercial, South Alaska Peninsula, Alaska Peninsula Area, Westward Region 2008 temporal stratum 2. Reporting group-specific harvest estimates including adjusted median, 90% credibility interval, the probability that reporting group estimate is equal to zero ($P = 0$), mean, and SD.

Reporting Group	Stratum 2 (6/14–6/15; Harvest = 12,832; n = 398)					
	Median ^a	90% CI		$P = 0$	Mean	SD
		5%	95%			
Asia	5,084	4,377	5,741	0.00	5,039	416
Kotzebue Sound	491	211	843	0.00	500	194
CWAK	5,747	4,932	6,498	0.00	5,695	478
Upper Yukon	119	0	392	0.16	143	132
Northern Dist.	210	56	424	0.03	220	113
Northwestern Dist.	0	0	102	0.82	13	44
South Peninsula	35	0	246	0.20	67	86
Chignik/Kodiak	301	90	570	0.01	310	147
East of Kodiak	843	573	1,159	0.00	846	179
Total	12,830				12,833	

Note: Harvest is the number of chum salmon reported to have been harvested and n is the final number of samples used in genetic analyses.

^a Adjusted median; 1.01 times unadjusted median.

Appendix C33.–June, Shumagin Islands Section (statistical areas all 282-XX), Commercial, South Alaska Peninsula, Alaska Peninsula Area, Westward Region 2008 temporal stratum 3. Reporting group-specific harvest estimates including adjusted median, 90% credibility interval, the probability that reporting group estimate is equal to zero ($P = 0$), mean, and SD.

Stratum 3 (6/17–6/20; Harvest = 67,110; n = 396)						
Reporting Group	Median ^a	90% CI		$P = 0$	Mean	SD
		5%	95%			
Asia	26,764	23,061	30,271	0.00	26,558	2,193
Kotzebue Sound	1,290	0	2,847	0.12	1,295	904
CWAK	28,082	24,117	31,842	0.00	27,866	2,350
Upper Yukon	1,571	730	2,787	0.00	1,631	634
Northern Dist.	0	0	1,265	0.72	185	448
Northwestern Dist.	915	0	1,908	0.08	936	557
South Peninsula	1,080	403	2,286	0.00	1,171	591
Chignik/Kodiak	2,232	1,092	3,681	0.00	2,273	791
East of Kodiak	5,177	3,725	6,832	0.00	5,182	950
Total	67,111				67,097	

Note: Harvest is the number of chum salmon reported to have been harvested and n is the final number of samples used in genetic analyses.

^a Adjusted median; 1.01 times unadjusted median.

Appendix C34.–June, Shumagin Islands Section (statistical areas all 282-XX), Commercial, South Alaska Peninsula, Alaska Peninsula Area, Westward Region 2008 temporal stratum 4. Reporting group-specific harvest estimates including adjusted median, 90% credibility interval, the probability that reporting group estimate is equal to zero ($P = 0$), mean, and SD.

Stratum 4 (6/22–6/25; Harvest = 26,886; n = 390)						
Reporting Group	Median ^a	90% CI		$P = 0$	Mean	SD
		5%	95%			
Asia	6,968	5,762	8,117	0.00	6,901	715
Kotzebue Sound	0	0	12	0.89	5	31
CWAK	11,435	9,827	12,886	0.00	11,313	930
Upper Yukon	323	0	858	0.17	345	284
Northern Dist.	330	0	925	0.35	341	329
Northwestern Dist.	0	0	698	0.56	164	255
South Peninsula	2,645	1,668	3,664	0.00	2,626	619
Chignik/Kodiak	1,464	750	2,371	0.00	1,492	513
East of Kodiak	3,719	2,868	4,612	0.00	3,698	531
Total	26,884				26,885	

Note: Harvest is the number of chum salmon reported to have been harvested and n is the final number of samples used in genetic analyses.

^a Adjusted median; 1.01 times unadjusted median.

Appendix C35.–June, Shumagin Islands Section (statistical areas all 282-XX), Commercial, South Alaska Peninsula, Alaska Peninsula Area, Westward Region 2008 temporal stratum 5. Reporting group-specific harvest estimates including adjusted median, 90% credibility interval, the probability that reporting group estimate is equal to zero ($P = 0$), mean, and SD.

Stratum 5 (6/27–6/29; Harvest = 19,655; n = 457)						
Reporting Group	Median ^a	90% CI		$P = 0$	Mean	SD
		5%	95%			
Asia	8,564	7,507	9,586	0.00	8,519	635
Kotzebue Sound	0	0	0	0.48	1	14
CWAK	3,805	3,051	4,668	0.00	3,808	493
Upper Yukon	11	0	209	0.22	51	76
Northern Dist.	485	0	890	0.09	449	287
Northwestern Dist.	369	137	688	0.00	383	170
South Peninsula	2,318	1,572	3,247	0.00	2,340	511
Chignik/Kodiak	2,045	1,189	2,906	0.00	2,040	521
East of Kodiak	2,058	1,546	2,629	0.00	2,061	331
Total	19,655				19,652	

Note: Harvest is the number of chum salmon reported to have been harvested and n is the final number of samples used in genetic analyses.

^a Adjusted median; 1.01 times unadjusted median.

Appendix C36.–June, Shumagin Islands Section (statistical areas all 282-XX), Commercial, South Alaska Peninsula, Alaska Peninsula Area, Westward Region 2009 temporal stratum 1. Reporting group-specific harvest estimates including adjusted median, 90% credibility interval, the probability that reporting group estimate is equal to zero ($P = 0$), mean, and SD.

Stratum 1 (6/7–6/10; Harvest = 23,623; n = 400)						
Reporting Group	Median ^a	90% CI		$P = 0$	Mean	SD
		5%	95%			
Asia	6,624	5,597	7,659	0.00	6,592	628
Kotzebue Sound	0	0	2	0.94	2	18
CWAK	16,073	14,405	17,628	0.00	15,972	979
Upper Yukon	0	0	133	0.87	21	95
Northern Dist.	0	0	324	0.76	46	116
Northwestern Dist.	208	0	490	0.08	221	149
South Peninsula	0	0	60	0.80	9	36
Chignik/Kodiak	47	4	210	0.01	69	72
East of Kodiak	671	375	1,070	0.00	687	213
Total	23,623				23,619	

Note: Harvest is the number of chum salmon reported to have been harvested and n is the final number of samples used in genetic analyses.

^a Adjusted median; 1.01 times unadjusted median.

Appendix C37.–June, Shumagin Islands Section (statistical areas all 282-XX), Commercial, South Alaska Peninsula, Alaska Peninsula Area, Westward Region 2009 temporal stratum 2. Reporting group-specific harvest estimates including adjusted median, 90% credibility interval, the probability that reporting group estimate is equal to zero ($P = 0$), mean, and SD.

Stratum 2 (6/12–6/15; Harvest = 156,305; n = 392)						
Reporting Group	Median ^a	90% CI		$P = 0$	Mean	SD
		5%	95%			
Asia	49,884	42,438	57,214	0.00	49,557	4,495
Kotzebue Sound	0	0	2,884	0.69	473	1,055
CWAK	97,330	86,445	107,142	0.00	96,545	6,308
Upper Yukon	0	0	1,234	0.72	197	478
Northern Dist.	0	0	548	0.86	83	368
Northwestern Dist.	1,874	583	4,021	0.01	2,021	1,079
South Peninsula	0	0	73	0.90	58	364
Chignik/Kodiak	2,783	565	5,301	0.04	2,847	1,404
East of Kodiak	4,434	2,464	7,097	0.00	4,533	1,425
Total	156,305				156,314	

Note: Harvest is the number of chum salmon reported to have been harvested and n is the final number of samples used in genetic analyses.

^a Adjusted median; 1.01 times unadjusted median.

Appendix C38.–June, Shumagin Islands Section (statistical areas all 282-XX), Commercial, South Alaska Peninsula, Alaska Peninsula Area, Westward Region 2009 temporal stratum 3. Reporting group-specific harvest estimates including adjusted median, 90% credibility interval, the probability that reporting group estimate is equal to zero ($P = 0$), mean, and SD.

Stratum 3 (6/17–6/20; Harvest = 144,212; n = 397)						
Reporting Group	Median ^a	90% CI		$P = 0$	Mean	SD
		5%	95%			
Asia	51,629	43,989	58,281	0.00	50,883	4,346
Kotzebue Sound	0	0	607	0.88	98	453
CWAK	80,397	70,410	88,367	0.00	79,166	5,455
Upper Yukon	843	0	2,339	0.14	938	755
Northern Dist.	13	0	3,336	0.48	867	1,214
Northwestern Dist.	5,360	2,837	8,618	0.00	5,435	1,770
South Peninsula	815	0	4,166	0.37	1,298	1,488
Chignik/Kodiak	347	11	2,594	0.03	667	878
East of Kodiak	4,807	2,833	7,322	0.00	4,853	1,375
Total	144,211				144,205	

Note: Harvest is the number of chum salmon reported to have been harvested and n is the final number of samples used in genetic analyses.

^a Adjusted median; 1.02 times unadjusted median.

Appendix C39.–June, Shumagin Islands Section (statistical areas all 282-XX), Commercial, South Alaska Peninsula, Alaska Peninsula Area, Westward Region 2009 temporal stratum 4. Reporting group-specific harvest estimates including adjusted median, 90% credibility interval, the probability that reporting group estimate is equal to zero ($P = 0$), mean, and SD.

Stratum 4 (6/22–6/25; Harvest = 117,372; n = 397)						
Reporting Group	Median ^a	90% CI		$P = 0$	Mean	SD
		5%	95%			
Asia	30,292	25,160	35,202	0.00	30,014	3,067
Kotzebue Sound	0	0	11	0.92	19	154
CWAK	63,563	55,876	70,265	0.00	62,874	4,379
Upper Yukon	0	0	9	0.92	13	110
Northern Dist.	0	0	1,208	0.87	149	621
Northwestern Dist.	8,596	5,265	12,257	0.00	8,583	2,123
South Peninsula	1,431	251	6,941	0.00	2,311	2,195
Chignik/Kodiak	4,170	0	7,706	0.07	4,122	2,162
East of Kodiak	9,319	6,549	12,503	0.00	9,323	1,823
Total	117,371				117,408	

Note: Harvest is the number of chum salmon reported to have been harvested and n is the final number of samples used in genetic analyses.

^a Adjusted median; 1.01 times unadjusted median.

Appendix C40.–June, Shumagin Islands Section (statistical areas all 282-XX), Commercial, South Alaska Peninsula, Alaska Peninsula Area, Westward Region 2009 temporal stratum 5. Reporting group-specific harvest estimates including adjusted median, 90% credibility interval, the probability that reporting group estimate is equal to zero ($P = 0$), mean, and SD.

Stratum 5 (6/27–6/29; Harvest = 54,480; n = 398)						
Reporting Group	Median ^a	90% CI		$P = 0$	Mean	SD
		5%	95%			
Asia	9,619	7,645	11,544	0.00	9,516	1,188
Kotzebue Sound	0	0	208	0.89	42	203
CWAK	27,426	23,872	30,359	0.00	27,038	1,971
Upper Yukon	0	0	2	0.94	8	78
Northern Dist.	0	0	1,437	0.74	216	524
Northwestern Dist.	2,646	1,486	4,011	0.00	2,657	770
South Peninsula	2,618	1,261	8,236	0.00	3,295	2,145
Chignik/Kodiak	6,001	11	8,428	0.04	5,601	2,102
East of Kodiak	6,170	4,336	8,031	0.00	6,111	1,128
Total	54,480				54,484	

Note: Harvest is the number of chum salmon reported to have been harvested and n is the final number of samples used in genetic analyses.

^a Adjusted median; 1.02 times unadjusted median.

Appendix C41.–June, Dolgoi Island area (statistical areas all 283-XX, and 284-00 through 284-42), Commercial, South Alaska Peninsula, Alaska Peninsula Area, Westward Region 2007 temporal stratum 1. Reporting group-specific harvest estimates including adjusted median, 90% credibility interval, the probability that reporting group estimate is equal to zero ($P = 0$), mean, and SD.

Reporting Group	Stratum 1 (Season; Harvest = 3,757; n = 0 ^a)					
	Median ^b	90% CI		$P = 0$	Mean	SD
		5%	95%			
Asia	535	461	610	0.00	533	46
Kotzebue Sound	0	0	32	0.55	6	11
CWAK	2,899	2,641	3,142	0.00	2,884	152
Upper Yukon	43	19	75	0.00	45	17
Northern Dist.	12	4	50	0.00	18	15
Northwestern Dist.	42	26	64	0.00	43	12
South Peninsula	3	0	16	0.09	4	5
Chignik/Kodiak	13	3	31	0.00	14	9
East of Kodiak	209	169	254	0.00	209	26
Total	3,756				3,756	

Note: Harvest is the number of chum salmon reported to have been harvested and n is the final number of samples used in genetic analyses.

^a Not part of WASSIP sampling plan. Average stock composition estimate from temporal strata 1 to 5, 2007, (June) Unimak District.

^b Adjusted median; 1.01 times unadjusted median.

Appendix C42.–June, Dolgoi Island area (statistical areas all 283-XX, and 284-00 through 284-42), Commercial, South Alaska Peninsula, Alaska Peninsula Area, Westward Region 2008 temporal stratum 1. Reporting group-specific harvest estimates including adjusted median, 90% credibility interval, the probability that reporting group estimate is equal to zero ($P = 0$), mean, and SD.

Reporting Group	Stratum 1 (Season; Harvest = 3,668; n = 0 ^a)					
	Median ^b	90% CI		$P = 0$	Mean	SD
		5%	95%			
Asia	856	759	952	0.00	853	59
Kotzebue Sound	32	12	60	0.00	34	15
CWAK	2,190	1,988	2,384	0.00	2,180	121
Upper Yukon	64	39	93	0.00	65	16
Northern Dist.	51	23	100	0.00	55	24
Northwestern Dist.	155	116	197	0.00	155	25
South Peninsula	17	3	70	0.01	25	22
Chignik/Kodiak	104	51	149	0.00	102	30
East of Kodiak	199	161	240	0.00	199	24
Total	3,668				3,668	

Note: Harvest is the number of chum salmon reported to have been harvested and n is the final number of samples used in genetic analyses.

^a Not part of WASSIP sampling plan. Average stock composition estimate from temporal strata 1 to 5, 2008, (June) Unimak District.

^b Adjusted median; 1.01 times unadjusted median.

Appendix C43.–June, Dolgoi Island area (statistical areas all 283-XX, and 284-00 through 284-42), Commercial, South Alaska Peninsula, Alaska Peninsula Area, Westward Region 2009 temporal stratum 1. Reporting group-specific harvest estimates including adjusted median, 90% credibility interval, the probability that reporting group estimate is equal to zero ($P = 0$), mean, and SD.

Reporting Group	Stratum 1 (Season; Harvest = 6,248; n = 0 ^a)					
	Median ^b	90% CI		$P = 0$	Mean	SD
		5%	95%			
Asia	1,035	911	1,163	0.00	1,032	77
Kotzebue Sound	102	48	170	0.00	104	37
CWAK	4,249	3,869	4,618	0.00	4,233	228
Upper Yukon	9	0	53	0.28	15	18
Northern Dist.	131	75	212	0.00	135	42
Northwestern Dist.	396	324	474	0.00	396	46
South Peninsula	43	21	73	0.00	45	17
Chignik/Kodiak	102	56	157	0.00	103	31
East of Kodiak	182	138	234	0.00	183	29
Total	6,249				6,246	

Note: Harvest is the number of chum salmon reported to have been harvested and n is the final number of samples used in genetic analyses.

^a Not part of WASSIP sampling plan. Average stock composition estimate from temporal strata 1 to 5, 2009, (June) Unimak District.

^b Adjusted median; 1.01 times unadjusted median.

Appendix C44.–June, Ikatan area (statistical area 284-45 through 284-99), Commercial, South Alaska Peninsula, Alaska Peninsula Area, Westward Region 2007 temporal stratum 1. Reporting group-specific harvest estimates including adjusted median, 90% credibility interval, the probability that reporting group estimate is equal to zero ($P = 0$), mean, and SD.

Stratum 1 (6/7–6/10; Harvest = 12,903; n = 398)						
Reporting Group	Median ^a	90% CI		$P = 0$	Mean	SD
		5%	95%			
Asia	1,792	1,393	2,233	0.00	1,792	256
Kotzebue Sound	0	0	14	0.92	5	32
CWAK	9,501	8,549	10,410	0.00	9,453	566
Upper Yukon	0	0	3	0.93	3	19
Northern Dist.	66	0	260	0.20	88	89
Northwestern Dist.	22	0	121	0.21	36	42
South Peninsula	0	0	0	0.96	0	5
Chignik/Kodiak	0	0	15	0.85	3	13
East of Kodiak	1,521	1,175	1,904	0.00	1,522	222
Total	12,902				12,902	

Note: Harvest is the number of chum salmon reported to have been harvested and n is the final number of samples used in genetic analyses.

^a Adjusted median; 1.01 times unadjusted median.

Appendix C45.–June, Ikatan area (statistical area 284-45 through 284-99), Commercial, South Alaska Peninsula, Alaska Peninsula Area, Westward Region 2007 temporal stratum 2. Reporting group-specific harvest estimates including adjusted median, 90% credibility interval, the probability that reporting group estimate is equal to zero ($P = 0$), mean, and SD.

Stratum 2 (6/12–6/15; Harvest = 13,215; n = 394)						
Reporting Group	Median ^a	90% CI		$P = 0$	Mean	SD
		5%	95%			
Asia	1,732	1,340	2,159	0.00	1,730	250
Kotzebue Sound	0	0	17	0.46	7	36
CWAK	10,080	9,047	11,020	0.00	10,010	599
Upper Yukon	543	267	899	0.00	555	194
Northern Dist.	0	0	11	0.45	3	20
Northwestern Dist.	0	0	6	0.45	2	9
South Peninsula	232	40	469	0.02	240	129
Chignik/Kodiak	19	0	245	0.11	50	88
East of Kodiak	608	378	895	0.00	616	158
Total	13,214				13,213	

Note: Harvest is the number of chum salmon reported to have been harvested and n is the final number of samples used in genetic analyses.

^a Adjusted median; 1.01 times unadjusted median.

Appendix C46.–June, Ikatan area (statistical area 284-45 through 284-99), Commercial, South Alaska Peninsula, Alaska Peninsula Area, Westward Region 2007 temporal stratum 3. Reporting group-specific harvest estimates including adjusted median, 90% credibility interval, the probability that reporting group estimate is equal to zero ($P = 0$), mean, and SD.

Stratum 3 (6/17–6/20; Harvest = 10,608; n = 390)						
Reporting Group	Median ^a	90% CI		$P = 0$	Mean	SD
		5%	95%			
Asia	3,129	2,636	3,610	0.00	3,108	296
Kotzebue Sound	0	0	16	0.91	7	41
CWAK	6,219	5,501	6,884	0.00	6,173	421
Upper Yukon	264	111	472	0.00	273	111
Northern Dist.	1	0	99	0.47	21	38
Northwestern Dist.	77	16	192	0.01	86	56
South Peninsula	23	0	111	0.19	34	38
Chignik/Kodiak	0	0	66	0.82	9	28
East of Kodiak	895	657	1,167	0.00	897	156
Total	10,608				10,608	

Note: Harvest is the number of chum salmon reported to have been harvested and n is the final number of samples used in genetic analyses.

^a Adjusted median; 1.01 times unadjusted median.

Appendix C47.–June, Ikatan area (statistical area 284-45 through 284-99), Commercial, South Alaska Peninsula, Alaska Peninsula Area, Westward Region 2007 temporal stratum 4. Reporting group-specific harvest estimates including adjusted median, 90% credibility interval, the probability that reporting group estimate is equal to zero ($P = 0$), mean, and SD.

Stratum 4 (6/22–6/25; Harvest = 4,827; n = 388)						
Reporting Group	Median ^a	90% CI		$P = 0$	Mean	SD
		5%	95%			
Asia	586	442	744	0.00	586	92
Kotzebue Sound	0	0	0	0.96	0	4
CWAK	3,589	3,224	3,926	0.00	3,566	214
Upper Yukon	0	0	52	0.75	8	20
Northern Dist.	0	0	1	0.94	1	7
Northwestern Dist.	119	48	209	0.00	121	49
South Peninsula	46	8	164	0.03	59	49
Chignik/Kodiak	141	7	261	0.00	139	74
East of Kodiak	346	241	468	0.00	347	69
Total	4,827				4,827	

Note: Harvest is the number of chum salmon reported to have been harvested and n is the final number of samples used in genetic analyses.

^a Adjusted median; 1.01 times unadjusted median.

Appendix C48.–June, Ikatan area (statistical area 284-45 through 284-99), Commercial, South Alaska Peninsula, Alaska Peninsula Area, Westward Region 2007 temporal stratum 5. Reporting group-specific harvest estimates including adjusted median, 90% credibility interval, the probability that reporting group estimate is equal to zero ($P = 0$), mean, and SD.

Stratum 5 (6/27–6/29; Harvest = 2,253; n = 392)						
Reporting Group	Median ^a	90% CI		$P = 0$	Mean	SD
		5%	95%			
Asia	440	354	528	0.00	438	53
Kotzebue Sound	55	0	119	0.18	54	39
CWAK	1,125	977	1,269	0.00	1,119	89
Upper Yukon	34	11	71	0.01	37	19
Northern Dist.	119	52	192	0.00	120	42
Northwestern Dist.	176	113	256	0.00	179	43
South Peninsula	31	10	67	0.01	34	18
Chignik/Kodiak	119	56	191	0.00	120	41
East of Kodiak	152	100	211	0.00	153	34
Total	2,251				2,254	

Note: Harvest is the number of chum salmon reported to have been harvested and n is the final number of samples used in genetic analyses.

^a Adjusted median; 1.01 times unadjusted median.

Appendix C49.–June, Ikatan area (statistical area 284-45 through 284-99), Commercial, South Alaska Peninsula, Alaska Peninsula Area, Westward Region 2008 temporal stratum 1. Reporting group-specific harvest estimates including adjusted median, 90% credibility interval, the probability that reporting group estimate is equal to zero ($P = 0$), mean, and SD.

Reporting Group	Stratum 1 (6/7–6/10; Harvest = 802; n = 0 ^a)					
	Median ^b	90% CI		$P = 0$	Mean	SD
		5%	95%			
Asia	124	100	149	0.00	124	15
Kotzebue Sound	0	0	1	0.93	0	2
CWAK	578	522	631	0.00	575	33
Upper Yukon	0	0	0	0.95	0	1
Northern Dist.	20	10	33	0.00	21	7
Northwestern Dist.	1	0	6	0.34	2	2
South Peninsula	0	0	0	0.97	0	1
Chignik/Kodiak	0	0	2	0.90	0	1
East of Kodiak	79	62	99	0.00	80	11
Total	802				802	

Note: Harvest is the number of chum salmon reported to have been harvested and n is the final number of samples used in genetic analyses.

^a No samples collected. Average stock composition estimate from temporal stratum 1, 2007 and 2009, (June), Ikatan area used as proxy.

^b Adjusted median; 1.01 times unadjusted median.

Appendix C50.–June, Ikatan area (statistical area 284-45 through 284-99), Commercial, South Alaska Peninsula, Alaska Peninsula Area, Westward Region 2008 temporal stratum 2. Reporting group-specific harvest estimates including adjusted median, 90% credibility interval, the probability that reporting group estimate is equal to zero ($P = 0$), mean, and SD.

Reporting Group	Stratum 2 (6/12–6/15; Harvest = 10,740; n = 382)					
	Median ^a	90% CI		$P = 0$	Mean	SD
		5%	95%			
Asia	3,491	2,950	3,998	0.00	3,457	319
Kotzebue Sound	0	0	2	0.94	4	29
CWAK	6,268	5,526	6,916	0.00	6,202	422
Upper Yukon	0	0	14	0.83	3	14
Northern Dist.	46	0	324	0.12	90	109
Northwestern Dist.	484	266	744	0.00	488	146
South Peninsula	0	0	240	0.76	34	84
Chignik/Kodiak	0	0	30	0.90	6	29
East of Kodiak	452	269	680	0.00	456	126
Total	10,741				10,740	

Note: Harvest is the number of chum salmon reported to have been harvested and n is the final number of samples used in genetic analyses.

^a Adjusted median; 1.01 times unadjusted median.

Appendix C51.–June, Ikatan area (statistical area 284-45 through 284-99), Commercial, South Alaska Peninsula, Alaska Peninsula Area, Westward Region 2008 temporal stratum 3. Reporting group-specific harvest estimates including adjusted median, 90% credibility interval, the probability that reporting group estimate is equal to zero ($P = 0$), mean, and SD.

Stratum 3 (6/17–6/20; Harvest = 10,379; n = 396)						
Reporting Group	Median ^a	90% CI		$P = 0$	Mean	SD
		5%	95%			
Asia	2,396	1,925	2,778	0.00	2,336	260
Kotzebue Sound	0	0	177	0.65	33	65
CWAK	6,718	5,845	7,249	0.00	6,532	427
Upper Yukon	26	1	155	0.05	44	54
Northern Dist.	0	0	392	0.52	93	140
Northwestern Dist.	510	296	747	0.00	505	138
South Peninsula	76	0	320	0.37	103	114
Chignik/Kodiak	0	0	401	0.63	89	146
East of Kodiak	653	423	896	0.00	643	144
Total	10,379				10,378	

Note: Harvest is the number of chum salmon reported to have been harvested and n is the final number of samples used in genetic analyses.

^a Adjusted median; 1.03 times unadjusted median.

Appendix C52.–June, Ikatan area (statistical area 284-45 through 284-99), Commercial, South Alaska Peninsula, Alaska Peninsula Area, Westward Region 2008 temporal stratum 4. Reporting group-specific harvest estimates including adjusted median, 90% credibility interval, the probability that reporting group estimate is equal to zero ($P = 0$), mean, and SD.

Reporting Group	Stratum 4 (6/22–6/25; Harvest = 10,574; n = 199)					
	Median ^a	90% CI		$P = 0$	Mean	SD
		5%	95%			
Asia	5,701	4,889	6,445	0.00	5,650	474
Kotzebue Sound	0	0	30	0.91	12	62
CWAK	3,208	2,553	3,867	0.00	3,188	400
Upper Yukon	266	78	562	0.00	284	150
Northern Dist.	0	0	18	0.91	4	23
Northwestern Dist.	423	204	738	0.00	438	164
South Peninsula	0	0	1	0.94	1	12
Chignik/Kodiak	0	0	117	0.78	16	52
East of Kodiak	975	621	1,393	0.00	981	236
Total	10,573				10,574	

Note: Harvest is the number of chum salmon reported to have been harvested and n is the final number of samples used in genetic analyses.

^a Adjusted median; 1.01 times unadjusted median.

Appendix C53.–June, Ikatan area (statistical area 284-45 through 284-99), Commercial, South Alaska Peninsula, Alaska Peninsula Area, Westward Region 2008 temporal stratum 5. Reporting group-specific harvest estimates including adjusted median, 90% credibility interval, the probability that reporting group estimate is equal to zero ($P = 0$), mean, and SD.

Stratum 5 (6/27–6/29; Harvest = 2,949; n = 377)						
Reporting Group	Median ^a	90% CI		$P = 0$	Mean	SD
		5%	95%			
Asia	706	573	827	0.00	695	78
Kotzebue Sound	0	0	78	0.56	16	28
CWAK	1,282	1,080	1,446	0.00	1,259	112
Upper Yukon	7	0	36	0.15	11	12
Northern Dist.	387	261	517	0.00	383	78
Northwestern Dist.	342	232	451	0.00	338	67
South Peninsula	56	5	133	0.01	60	39
Chignik/Kodiak	15	0	128	0.35	35	45
East of Kodiak	153	97	218	0.00	153	37
Total	2,948				2,950	

Note: Harvest is the number of chum salmon reported to have been harvested and n is the final number of samples used in genetic analyses.

^a Adjusted median; 1.02 times unadjusted median.

Appendix C54.–June, Ikatan area (statistical area 284-45 through 284-99), Commercial, South Alaska Peninsula, Alaska Peninsula Area, Westward Region 2009 temporal stratum 1. Reporting group-specific harvest estimates including adjusted median, 90% credibility interval, the probability that reporting group estimate is equal to zero ($P = 0$), mean, and SD.

Stratum 1 (6/7–6/10; Harvest = 3,583; n = 128)						
Reporting Group	Median ^a	90% CI		$P = 0$	Mean	SD
		5%	95%			
Asia	754	526	1,003	0.00	753	145
Kotzebue Sound	0	0	0	0.96	0	5
CWAK	2,390	2,044	2,702	0.00	2,368	200
Upper Yukon	0	0	0	0.96	0	5
Northern Dist.	331	170	542	0.00	338	114
Northwestern Dist.	0	0	3	0.93	2	12
South Peninsula	0	0	0	0.95	1	10
Chignik/Kodiak	0	0	3	0.93	3	18
East of Kodiak	108	31	239	0.00	117	65
Total	3,583				3,582	

Note: Harvest is the number of chum salmon reported to have been harvested and n is the final number of samples used in genetic analyses.

^a Adjusted median; 1.01 times unadjusted median.

Appendix C55.–June, Ikatan area (statistical area 284-45 through 284-99), Commercial, South Alaska Peninsula, Alaska Peninsula Area, Westward Region 2009 temporal stratum 2. Reporting group-specific harvest estimates including adjusted median, 90% credibility interval, the probability that reporting group estimate is equal to zero ($P = 0$), mean, and SD.

Stratum 2 (6/12–6/15; Harvest = 4,668; n = 374)						
Reporting Group	Median ^a	90% CI		$P = 0$	Mean	SD
		5%	95%			
Asia	622	482	778	0.00	623	90
Kotzebue Sound	0	0	0	0.95	1	7
CWAK	3,846	3,486	4,189	0.00	3,828	214
Upper Yukon	0	0	0	0.95	1	5
Northern Dist.	0	0	12	0.91	3	14
Northwestern Dist.	118	60	198	0.00	121	43
South Peninsula	0	0	0	0.96	1	5
Chignik/Kodiak	45	0	104	0.11	48	31
East of Kodiak	37	11	95	0.00	43	27
Total	4,668				4,669	

Note: Harvest is the number of chum salmon reported to have been harvested and n is the final number of samples used in genetic analyses.

^a Adjusted median; 1.01 times unadjusted median.

Appendix C56.–June, Ikatan area (statistical area 284-45 through 284-99), Commercial, South Alaska Peninsula, Alaska Peninsula Area, Westward Region 2009 temporal stratum 3. Reporting group-specific harvest estimates including adjusted median, 90% credibility interval, the probability that reporting group estimate is equal to zero ($P = 0$), mean, and SD.

Stratum 3 (6/17–6/20; Harvest = 18,949; n = 396)						
Reporting Group	Median ^a	90% CI		$P = 0$	Mean	SD
		5%	95%			
Asia	1,649	1,202	2,140	0.00	1,642	286
Kotzebue Sound	0	0	1	0.94	2	21
CWAK	16,049	14,381	17,361	0.00	15,839	906
Upper Yukon	36	2	155	0.03	51	53
Northern Dist.	94	0	795	0.06	233	274
Northwestern Dist.	561	309	896	0.00	571	181
South Peninsula	0	0	358	0.85	39	130
Chignik/Kodiak	358	0	670	0.08	356	187
East of Kodiak	202	65	427	0.00	217	114
Total	18,949				18,950	

Note: Harvest is the number of chum salmon reported to have been harvested and n is the final number of samples used in genetic analyses.

^a Adjusted median; 1.01 times unadjusted median.

Appendix C57.–June, Ikatan area (statistical area 284-45 through 284-99), Commercial, South Alaska Peninsula, Alaska Peninsula Area, Westward Region 2009 temporal stratum 4. Reporting group-specific harvest estimates including adjusted median, 90% credibility interval, the probability that reporting group estimate is equal to zero ($P = 0$), mean, and SD.

Stratum 4 (6/22–6/25; Harvest = 31,818; n = 396)						
Reporting Group	Median ^a	90% CI		$P = 0$	Mean	SD
		5%	95%			
Asia	4,409	3,446	5,459	0.00	4,407	613
Kotzebue Sound	0	0	3	0.93	6	49
CWAK	24,796	22,380	27,049	0.00	24,665	1,422
Upper Yukon	0	0	383	0.80	47	178
Northern Dist.	0	0	2	0.94	5	40
Northwestern Dist.	1,336	817	1,990	0.00	1,354	358
South Peninsula	149	28	432	0.00	178	132
Chignik/Kodiak	0	0	3	0.93	6	44
East of Kodiak	1,129	664	1,727	0.00	1,149	326
Total	31,819				31,817	

Note: Harvest is the number of chum salmon reported to have been harvested and n is the final number of samples used in genetic analyses.

^a Adjusted median; 1.01 times unadjusted median.

Appendix C58.–June, Ikatan area (statistical area 284-45 through 284-99), Commercial, South Alaska Peninsula, Alaska Peninsula Area, Westward Region 2009 temporal stratum 5. Reporting group-specific harvest estimates including adjusted median, 90% credibility interval, the probability that reporting group estimate is equal to zero ($P = 0$), mean, and SD.

Stratum 5 (6/27–6/29; Harvest = 16,081; n = 398)						
Reporting Group	Median ^a	90% CI		$P = 0$	Mean	SD
		5%	95%			
Asia	3,968	3,283	4,627	0.00	3,933	410
Kotzebue Sound	0	0	277	0.71	45	103
CWAK	7,357	6,357	8,261	0.00	7,283	579
Upper Yukon	0	0	220	0.78	31	81
Northern Dist.	1,171	594	1,768	0.00	1,165	355
Northwestern Dist.	2,112	1,531	2,730	0.00	2,103	364
South Peninsula	0	0	202	0.80	26	89
Chignik/Kodiak	259	0	765	0.31	280	268
East of Kodiak	1,213	819	1,665	0.00	1,216	259
Total	16,080				16,082	

Note: Harvest is the number of chum salmon reported to have been harvested and n is the final number of samples used in genetic analyses.

^a Adjusted median; 1.01 times unadjusted median.

Appendix C59.–June, Unimak District, Commercial, South Alaska Peninsula, Alaska Peninsula Area, Westward Region 2007 temporal stratum
 1. Reporting group-specific harvest estimates including adjusted median, 90% credibility interval, the probability that reporting group estimate is equal to zero ($P = 0$), mean, and SD.

Stratum 1 (6/7–6/10; Harvest = 15,003; n = 397)						
Reporting Group	Median ^a	90% CI		$P = 0$	Mean	SD
		5%	95%			
Asia	1,435	1,034	1,868	0.00	1,428	254
Kotzebue Sound	0	0	2	0.93	3	20
CWAK	12,661	11,366	13,670	0.00	12,491	701
Upper Yukon	3	0	328	0.48	79	118
Northern Dist.	0	0	9	0.92	4	21
Northwestern Dist.	59	0	185	0.10	70	59
South Peninsula	51	0	171	0.07	63	55
Chignik/Kodiak	0	0	297	0.61	68	108
East of Kodiak	795	519	1,115	0.00	796	182
Total	15,004				15,002	

Note: Harvest is the number of chum salmon reported to have been harvested and n is the final number of samples used in genetic analyses.

^a Adjusted median; 1.01 times unadjusted median.

Appendix C60.–June, Unimak District, Commercial, South Alaska Peninsula, Alaska Peninsula Area, Westward Region 2007 temporal stratum
 2. Reporting group-specific harvest estimates including adjusted median, 90% credibility interval, the probability that reporting group estimate is equal to zero ($P = 0$), mean, and SD.

Stratum 2 (6/12–6/15; Harvest = 38,380; n = 398)						
Reporting Group	Median ^a	90% CI		$P = 0$	Mean	SD
		5%	95%			
Asia	5,183	4,021	6,431	0.00	5,166	736
Kotzebue Sound	0	0	858	0.71	143	309
CWAK	29,026	25,999	31,712	0.00	28,789	1,737
Upper Yukon	684	0	1,493	0.05	714	437
Northern Dist.	0	0	35	0.86	13	76
Northwestern Dist.	167	6	494	0.04	198	154
South Peninsula	0	0	7	0.92	5	31
Chignik/Kodiak	72	5	306	0.00	103	102
East of Kodiak	3,249	2,379	4,225	0.00	3,251	563
Total	38,381				38,382	

Note: Harvest is the number of chum salmon reported to have been harvested and n is the final number of samples used in genetic analyses.

^a Adjusted median; 1.01 times unadjusted median.

Appendix C61.–June, Unimak District, Commercial, South Alaska Peninsula, Alaska Peninsula Area, Westward Region 2007 temporal stratum
 3. Reporting group-specific harvest estimates including adjusted median, 90% credibility interval, the probability that reporting group estimate is equal to zero ($P = 0$), mean, and SD.

Stratum 3 (6/17–6/20; Harvest = 40,875; n = 394)						
Reporting Group	Median ^a	90% CI		$P = 0$	Mean	SD
		5%	95%			
Asia	4,747	3,575	5,998	0.00	4,725	740
Kotzebue Sound	0	0	129	0.77	21	83
CWAK	34,440	30,941	37,241	0.00	34,020	1,915
Upper Yukon	0	0	253	0.85	33	127
Northern Dist.	93	0	1,186	0.42	308	419
Northwestern Dist.	509	180	1,025	0.00	539	263
South Peninsula	0	0	347	0.79	46	133
Chignik/Kodiak	35	0	499	0.39	124	181
East of Kodiak	1,050	574	1,694	0.00	1,073	346
Total	40,874				40,889	

Note: Harvest is the number of chum salmon reported to have been harvested and n is the final number of samples used in genetic analyses.

^a Adjusted median; 1.01 times unadjusted median.

Appendix C62.–June, Unimak District, Commercial, South Alaska Peninsula, Alaska Peninsula Area, Westward Region 2007 temporal stratum
 4. Reporting group-specific harvest estimates including adjusted median, 90% credibility interval, the probability that reporting group estimate is equal to zero ($P = 0$), mean, and SD.

Stratum 4 (6/22–6/25; Harvest = 9,468; n = 476)						
Reporting Group	Median ^a	90% CI		$P = 0$	Mean	SD
		5%	95%			
Asia	3,195	2,753	3,634	0.00	3,178	268
Kotzebue Sound	0	0	29	0.88	5	23
CWAK	4,863	4,277	5,419	0.00	4,833	347
Upper Yukon	397	211	627	0.00	403	127
Northern Dist.	0	0	125	0.72	17	51
Northwestern Dist.	264	141	422	0.00	269	86
South Peninsula	0	0	39	0.83	5	19
Chignik/Kodiak	98	5	230	0.04	106	67
East of Kodiak	651	468	858	0.00	652	119
Total	9,468				9,468	

Note: Harvest is the number of chum salmon reported to have been harvested and n is the final number of samples used in genetic analyses.

^a Adjusted median; 1.01 times unadjusted median.

Appendix C63.–June, Unimak District, Commercial, South Alaska Peninsula, Alaska Peninsula Area, Westward Region 2007 temporal stratum
 5. Reporting group-specific harvest estimates including adjusted median, 90% credibility interval, the probability that reporting group estimate is equal to zero ($P = 0$), mean, and SD.

Stratum 5 (6/27–6/27; Harvest = 2,045; n = 397)						
Reporting Group	Median ^a	90% CI		$P = 0$	Mean	SD
		5%	95%			
Asia	507	420	595	0.00	504	53
Kotzebue Sound	0	0	10	0.89	2	8
CWAK	1,086	948	1,211	0.00	1,077	80
Upper Yukon	25	0	70	0.07	29	22
Northern Dist.	168	104	243	0.00	169	43
Northwestern Dist.	139	82	207	0.00	141	38
South Peninsula	5	0	25	0.29	8	9
Chignik/Kodiak	0	0	5	0.91	1	5
East of Kodiak	115	78	160	0.00	116	25
Total	2,045				2,047	

Note: Harvest is the number of chum salmon reported to have been harvested and n is the final number of samples used in genetic analyses.

^a Adjusted median; 1.01 times unadjusted median.

Appendix C64.–June, Unimak District, Commercial, South Alaska Peninsula, Alaska Peninsula Area, Westward Region 2008 temporal stratum
 1. Reporting group-specific harvest estimates including adjusted median, 90% credibility interval, the probability that reporting group estimate is equal to zero ($P = 0$), mean, and SD.

Stratum 1 (6/7–6/10; Harvest = 24,272; n = 385)						
Reporting Group	Median ^a	90% CI		$P = 0$	Mean	SD
		5%	95%			
Asia	3,818	2,978	4,677	0.00	3,788	518
Kotzebue Sound	0	0	43	0.91	14	78
CWAK	19,229	17,217	20,851	0.00	18,985	1,108
Upper Yukon	83	0	574	0.34	160	200
Northern Dist.	0	0	26	0.91	7	39
Northwestern Dist.	0	0	79	0.88	12	51
South Peninsula	0	0	568	0.60	135	208
Chignik/Kodiak	229	0	667	0.35	242	237
East of Kodiak	912	548	1,367	0.00	921	251
Total	24,271				24,264	

Note: Harvest is the number of chum salmon reported to have been harvested and n is the final number of samples used in genetic analyses.

^a Adjusted median; 1.01 times unadjusted median.

Appendix C65.–June, Unimak District, Commercial, South Alaska Peninsula, Alaska Peninsula Area, Westward Region 2008 temporal stratum
 2. Reporting group-specific harvest estimates including adjusted median, 90% credibility interval, the probability that reporting group estimate is equal to zero ($P = 0$), mean, and SD.

Stratum 2 (6/12–6/15; Harvest = 59,010; n = 385)						
Reporting Group	Median ^a	90% CI		$P = 0$	Mean	SD
		5%	95%			
Asia	9,752	7,597	11,921	0.00	9,655	1,315
Kotzebue Sound	0	0	181	0.87	27	122
CWAK	45,430	40,524	49,266	0.00	44,772	2,652
Upper Yukon	611	149	1,547	0.01	691	445
Northern Dist.	0	0	2,123	0.55	534	776
Northwestern Dist.	1,576	224	2,891	0.03	1,550	804
South Peninsula	0	0	5	0.93	7	52
Chignik/Kodiak	0	0	600	0.68	103	224
East of Kodiak	1,641	894	2,614	0.00	1,666	528
Total	59,010				59,005	

Note: Harvest is the number of chum salmon reported to have been harvested and n is the final number of samples used in genetic analyses.

^a Adjusted median; 1.02 times unadjusted median.

Appendix C66.–June, Unimak District, Commercial, South Alaska Peninsula, Alaska Peninsula Area, Westward Region 2008 temporal stratum
 3. Reporting group-specific harvest estimates including adjusted median, 90% credibility interval, the probability that reporting group estimate is equal to zero ($P = 0$), mean, and SD.

Stratum 3 (6/17–6/20; Harvest = 70,795; n = 393)						
Reporting Group	Median ^a	90% CI		$P = 0$	Mean	SD
		5%	95%			
Asia	17,234	14,117	20,186	0.00	17,050	1,853
Kotzebue Sound	1,498	394	3,070	0.01	1,572	825
CWAK	38,913	33,863	43,209	0.00	38,425	2,837
Upper Yukon	601	180	1,400	0.00	665	385
Northern Dist.	973	0	2,513	0.10	1,019	842
Northwestern Dist.	3,502	2,157	5,082	0.00	3,513	894
South Peninsula	0	0	3,802	0.28	835	1,359
Chignik/Kodiak	3,106	0	5,232	0.08	2,773	1,694
East of Kodiak	4,967	3,353	6,786	0.00	4,961	1,049
Total	70,794				70,813	

Note: Harvest is the number of chum salmon reported to have been harvested and n is the final number of samples used in genetic analyses.

^a Adjusted median; 1.01 times unadjusted median.

Appendix C67.–June, Unimak District, Commercial, South Alaska Peninsula, Alaska Peninsula Area, Westward Region 2008 temporal stratum 4. Reporting group-specific harvest estimates including adjusted median, 90% credibility interval, the probability that reporting group estimate is equal to zero ($P = 0$), mean, and SD.

Stratum 4 (6/22–6/25; Harvest = 63,535; n = 393)						
Reporting Group	Median ^a	90% CI		$P = 0$	Mean	SD
		5%	95%			
Asia	15,754	12,967	18,461	0.00	15,617	1,673
Kotzebue Sound	0	0	626	0.75	91	255
CWAK	34,397	29,742	38,327	0.00	33,995	2,613
Upper Yukon	2,472	1,116	3,967	0.00	2,481	864
Northern Dist.	0	0	2,523	0.83	259	833
Northwestern Dist.	4,843	3,268	6,619	0.00	4,843	1,024
South Peninsula	1	0	544	0.49	119	220
Chignik/Kodiak	2,969	1,704	4,566	0.00	3,005	878
East of Kodiak	3,100	1,934	4,465	0.00	3,113	776
Total	63,536				63,523	

Note: Harvest is the number of chum salmon reported to have been harvested and n is the final number of samples used in genetic analyses.

^a Adjusted median; 1.01 times unadjusted median.

Appendix C68.–June, Unimak District, Commercial, South Alaska Peninsula, Alaska Peninsula Area, Westward Region 2008 temporal stratum 5. Reporting group-specific harvest estimates including adjusted median, 90% credibility interval, the probability that reporting group estimate is equal to zero ($P = 0$), mean, and SD.

Stratum 5 (6/27–6/29; Harvest = 27,725; n = 382)						
Reporting Group	Median ^a	90% CI		$P = 0$	Mean	SD
		5%	95%			
Asia	11,029	9,470	12,472	0.00	10,928	910
Kotzebue Sound	537	0	1,341	0.22	550	451
CWAK	9,753	8,079	11,359	0.00	9,670	997
Upper Yukon	312	100	690	0.00	340	185
Northern Dist.	1,860	959	2,895	0.00	1,871	591
Northwestern Dist.	392	125	842	0.00	423	225
South Peninsula	444	22	1,594	0.05	583	483
Chignik/Kodiak	733	0	1,781	0.34	700	646
East of Kodiak	2,664	1,919	3,494	0.00	2,661	480
Total	27,724				27,726	

Note: Harvest is the number of chum salmon reported to have been harvested and n is the final number of samples used in genetic analyses.

^a Adjusted median; 1.01 times unadjusted median.

Appendix C69.–June, Unimak District, Commercial, South Alaska Peninsula, Alaska Peninsula Area, Westward Region 2009 temporal stratum
 1. Reporting group-specific harvest estimates including adjusted median, 90% credibility interval, the probability that reporting group estimate is equal to zero ($P = 0$), mean, and SD.

Stratum 1 (6/7–6/10; Harvest = 9,918; n = 397)						
Reporting Group	Median ^a	90% CI		$P = 0$	Mean	SD
		5%	95%			
Asia	2,599	2,177	3,036	0.00	2,591	261
Kotzebue Sound	0	0	1	0.47	2	13
CWAK	6,359	5,685	7,005	0.00	6,328	402
Upper Yukon	0	0	0	0.48	0	5
Northern Dist.	0	0	0	0.48	1	6
Northwestern Dist.	305	170	486	0.00	312	97
South Peninsula	334	0	551	0.04	324	148
Chignik/Kodiak	0	0	310	0.42	33	103
East of Kodiak	321	178	507	0.00	327	100
Total	9,918				9,918	

Note: Harvest is the number of chum salmon reported to have been harvested and n is the final number of samples used in genetic analyses.

^a Adjusted median; 1.01 times unadjusted median.

Appendix C70.–June, Unimak District, Commercial, South Alaska Peninsula, Alaska Peninsula Area, Westward Region 2009 temporal stratum
 2. Reporting group-specific harvest estimates including adjusted median, 90% credibility interval, the probability that reporting group estimate is equal to zero ($P = 0$), mean, and SD.

Stratum 2 (6/12–6/15; Harvest = 28,788; n = 397)						
Reporting Group	Median ^a	90% CI		$P = 0$	Mean	SD
		5%	95%			
Asia	1,967	1,308	2,707	0.00	1,968	427
Kotzebue Sound	0	0	50	0.91	22	128
CWAK	25,392	22,877	27,477	0.00	25,121	1,402
Upper Yukon	0	0	770	0.60	154	278
Northern Dist.	631	226	1,306	0.00	677	336
Northwestern Dist.	512	220	938	0.00	532	221
South Peninsula	0	0	1	0.94	2	21
Chignik/Kodiak	0	0	1	0.95	3	27
East of Kodiak	285	103	599	0.00	307	155
Total	28,787				28,786	

Note: Harvest is the number of chum salmon reported to have been harvested and n is the final number of samples used in genetic analyses.

^a Adjusted median; 1.01 times unadjusted median.

Appendix C71.–June, Unimak District, Commercial, South Alaska Peninsula, Alaska Peninsula Area, Westward Region 2009 temporal stratum
 3. Reporting group-specific harvest estimates including adjusted median, 90% credibility interval, the probability that reporting group estimate is equal to zero ($P = 0$), mean, and SD.

Stratum 3 (6/17–6/20; Harvest = 41,324; n = 396)						
Reporting Group	Median ^a	90% CI		$P = 0$	Mean	SD
		5%	95%			
Asia	3,989	2,946	5,142	0.00	3,977	670
Kotzebue Sound	1,913	897	3,166	0.00	1,942	694
CWAK	31,264	27,871	34,101	0.00	30,916	1,901
Upper Yukon	0	0	246	0.85	35	139
Northern Dist.	5	0	1,184	0.47	204	403
Northwestern Dist.	1,926	1,185	2,842	0.00	1,944	507
South Peninsula	0	0	35	0.89	16	109
Chignik/Kodiak	1,636	834	2,600	0.00	1,652	543
East of Kodiak	591	185	1,233	0.00	631	326
Total	41,324				41,317	

Note: Harvest is the number of chum salmon reported to have been harvested and n is the final number of samples used in genetic analyses.

^a Adjusted median; 1.01 times unadjusted median.

Appendix C72.–June, Unimak District, Commercial, South Alaska Peninsula, Alaska Peninsula Area, Westward Region 2009 temporal stratum
 4. Reporting group-specific harvest estimates including adjusted median, 90% credibility interval, the probability that reporting group estimate is equal to zero ($P = 0$), mean, and SD.

Stratum 4 (6/22–6/25; Harvest = 11,147; n = 400)						
Reporting Group	Median ^a	90% CI		$P = 0$	Mean	SD
		5%	95%			
Asia	2,374	1,950	2,813	0.00	2,364	263
Kotzebue Sound	0	0	36	0.91	11	55
CWAK	6,927	6,121	7,690	0.00	6,883	476
Upper Yukon	0	0	21	0.82	4	16
Northern Dist.	361	0	693	0.14	349	212
Northwestern Dist.	813	534	1,119	0.00	813	179
South Peninsula	0	0	368	0.75	58	129
Chignik/Kodiak	284	0	548	0.12	272	171
East of Kodiak	387	232	593	0.00	395	111
Total	11,146				11,149	

Note: Harvest is the number of chum salmon reported to have been harvested and n is the final number of samples used in genetic analyses.

^a Adjusted median; 1.01 times unadjusted median.

Appendix C73.–June, Unimak District, Commercial, South Alaska Peninsula, Alaska Peninsula Area, Westward Region 2009 temporal stratum 5. Reporting group-specific harvest estimates including adjusted median, 90% credibility interval, the probability that reporting group estimate is equal to zero ($P = 0$), mean, and SD.

Stratum 5 (6/27–6/29; Harvest = 28,259; n = 394)						
Reporting Group	Median ^a	90% CI		$P = 0$	Mean	SD
		5%	95%			
Asia	8,927	7,539	10,227	0.00	8,841	820
Kotzebue Sound	0	0	120	0.85	20	92
CWAK	11,814	10,009	13,396	0.00	11,679	1,031
Upper Yukon	0	0	435	0.53	97	157
Northern Dist.	1,258	579	2,442	0.00	1,345	576
Northwestern Dist.	3,994	3,067	4,955	0.00	3,968	574
South Peninsula	429	156	850	0.00	453	215
Chignik/Kodiak	0	0	69	0.84	13	59
East of Kodiak	1,836	1,274	2,482	0.00	1,837	370
Total	28,258				28,253	

Note: Harvest is the number of chum salmon reported to have been harvested and n is the final number of samples used in genetic analyses.

^a Adjusted median; 1.01 times unadjusted median.

Appendix C74.–Post-June, Shumagin Islands Section, Commercial, South Alaska Peninsula, Alaska Peninsula Area, Westward Region 2007 temporal stratum 1. Reporting group-specific harvest estimates including adjusted median, 90% credibility interval, the probability that reporting group estimate is equal to zero ($P = 0$), mean, and SD.

Stratum 1 (7/6–7/12; Harvest = 27,921; n = 398)						
Reporting Group	Median ^a	90% CI		$P = 0$	Mean	SD
		5%	95%			
Asia	5,401	4,295	6,411	0.00	5,311	644
Kotzebue Sound	0	0	835	0.56	198	304
CWAK	5,041	3,810	6,129	0.00	4,945	707
Upper Yukon	0	0	150	0.80	21	64
Northern Dist.	79	0	967	0.39	260	353
Northwestern Dist.	1,018	365	1,860	0.00	1,039	459
South Peninsula	2,998	1,492	4,966	0.00	3,043	1,056
Chignik/Kodiak	8,266	5,991	10,108	0.00	8,073	1,253
East of Kodiak	5,118	4,049	6,104	0.00	5,033	625
Total	27,921				27,923	

Note: Harvest is the number of chum salmon reported to have been harvested and n is the final number of samples used in genetic analyses.

^a Adjusted median; 1.02 times unadjusted median.

Appendix C75.—Post-June, Shumagin Islands Section, Commercial, South Alaska Peninsula, Alaska Peninsula Area, Westward Region 2007 temporal stratum 2. Reporting group-specific harvest estimates including adjusted median, 90% credibility interval, the probability that reporting group estimate is equal to zero ($P = 0$), mean, and SD.

Stratum 2 (7/15–7/21; Harvest = 50,764; n = 382)						
Reporting Group	Median ^a	90% CI		$P = 0$	Mean	SD
		5%	95%			
Asia	15,582	13,160	17,944	0.00	15,484	1,459
Kotzebue Sound	0	0	5	0.93	8	61
CWAK	3,356	2,156	4,834	0.00	3,388	820
Upper Yukon	0	0	0	0.95	1	15
Northern Dist.	1,311	415	2,498	0.00	1,355	644
Northwestern Dist.	2,831	1,490	4,683	0.00	2,910	980
South Peninsula	13,203	8,556	17,963	0.00	13,151	2,863
Chignik/Kodiak	10,794	6,249	15,435	0.00	10,752	2,790
East of Kodiak	3,687	2,557	5,067	0.00	3,713	767
Total	50,764				50,762	

Note: Harvest is the number of chum salmon reported to have been harvested and n is the final number of samples used in genetic analyses.

^a Adjusted median; 1.01 times unadjusted median.

Appendix C76.—Post-June, Shumagin Islands Section, Commercial, South Alaska Peninsula, Alaska Peninsula Area, Westward Region 2007 temporal stratum 3. Reporting group-specific harvest estimates including adjusted median, 90% credibility interval, the probability that reporting group estimate is equal to zero ($P = 0$), mean, and SD.

Stratum 3 (7/23–7/31; Harvest = 57,805; n = 397)						
Reporting Group	Median ^a	90% CI		$P = 0$	Mean	SD
		5%	95%			
Asia	17,993	15,220	20,608	0.00	17,826	1,638
Kotzebue Sound	0	0	816	0.54	185	297
CWAK	2,442	1,410	3,712	0.00	2,466	704
Upper Yukon	319	0	1,037	0.13	385	337
Northern Dist.	0	0	277	0.79	41	168
Northwestern Dist.	2,662	1,472	4,394	0.00	2,740	904
South Peninsula	11,702	7,563	15,934	0.00	11,629	2,553
Chignik/Kodiak	17,310	12,800	21,796	0.00	17,170	2,745
East of Kodiak	5,377	3,909	7,059	0.00	5,373	963
Total	57,805				57,815	

Note: Harvest is the number of chum salmon reported to have been harvested and n is the final number of samples used in genetic analyses.

^a Adjusted median; 1.01 times unadjusted median.

Appendix C77.—Post-June, Shumagin Islands Section, Commercial, South Alaska Peninsula, Alaska Peninsula Area, Westward Region 2007 temporal stratum Late Catch. Reporting group-specific harvest estimates including adjusted median, 90% credibility interval, the probability that reporting group estimate is equal to zero ($P = 0$), mean, and SD.

Reporting Group	Stratum Late Catch (> 8/1; Harvest = 30,721; n = 0 ^a)					
	Median ^b	90% CI		$P = 0$	Mean	SD
		5%	95%			
Asia	0	0	0	1.00	0	0
Kotzebue Sound	0	0	0	1.00	0	0
CWAK	0	0	0	1.00	0	0
Upper Yukon	0	0	0	1.00	0	0
Northern Dist.	0	0	0	1.00	0	0
Northwestern Dist.	0	0	0	1.00	0	0
South Peninsula	30,721	28,258	33,309	0.00	30,714	1,539
Chignik/Kodiak	0	0	0	1.00	0	0
East of Kodiak	0	0	0	1.00	0	0
Total	30,721				30,714	

Note: Harvest is the number of chum salmon reported to have been harvested and n is the final number of samples used in genetic analyses.

^a Not part of WASSIP sampling plan. Assumed 100% fish harvested belong to South Peninsula reporting group.

^b Adjusted median; 1.00 times unadjusted median.

Appendix C78.—Post-June, Shumagin Islands Section, Commercial, South Alaska Peninsula, Alaska Peninsula Area, Westward Region 2008 temporal stratum 1. Reporting group-specific harvest estimates including adjusted median, 90% credibility interval, the probability that reporting group estimate is equal to zero ($P = 0$), mean, and SD.

Stratum 1 (7/6–7/12; Harvest = 31,574; n = 395)						
Reporting Group	Median ^a	90% CI		$P = 0$	Mean	SD
		5%	95%			
Asia	12,675	10,986	14,310	0.00	12,597	1,011
Kotzebue Sound	0	0	3	0.93	4	33
CWAK	2,896	2,101	3,790	0.00	2,900	516
Upper Yukon	0	0	26	0.90	6	33
Northern Dist.	385	106	910	0.00	428	253
Northwestern Dist.	1,963	1,134	2,954	0.00	1,983	558
South Peninsula	5,029	2,982	7,356	0.00	5,052	1,338
Chignik/Kodiak	5,074	2,820	7,335	0.00	5,047	1,373
East of Kodiak	3,552	2,657	4,547	0.00	3,551	576
Total	31,574				31,568	

Note: Harvest is the number of chum salmon reported to have been harvested and n is the final number of samples used in genetic analyses.

^a Adjusted median; 1.01 times unadjusted median.

Appendix C79.—Post-June, Shumagin Islands Section, Commercial, South Alaska Peninsula, Alaska Peninsula Area, Westward Region 2008 temporal stratum 2. Reporting group-specific harvest estimates including adjusted median, 90% credibility interval, the probability that reporting group estimate is equal to zero ($P = 0$), mean, and SD.

Stratum 2 (7/14–7/22; Harvest = 38,057; n = 397)						
Reporting Group	Median ^a	90% CI		$P = 0$	Mean	SD
		5%	95%			
Asia	8,332	6,837	9,832	0.00	8,274	911
Kotzebue Sound	0	0	437	0.84	51	179
CWAK	1,187	586	1,904	0.00	1,200	402
Upper Yukon	22	0	253	0.37	63	93
Northern Dist.	479	156	1,233	0.00	552	346
Northwestern Dist.	829	333	1,559	0.00	867	380
South Peninsula	7,290	3,968	11,109	0.00	7,335	2,181
Chignik/Kodiak	15,961	11,787	19,686	0.00	15,761	2,404
East of Kodiak	3,955	2,798	5,217	0.00	3,947	737
Total	38,055				38,050	

Note: Harvest is the number of chum salmon reported to have been harvested and n is the final number of samples used in genetic analyses.

^a Adjusted median; 1.01 times unadjusted median.

Appendix C80.—Post-June, Shumagin Islands Section, Commercial, South Alaska Peninsula, Alaska Peninsula Area, Westward Region 2008 temporal stratum 3. Reporting group-specific harvest estimates including adjusted median, 90% credibility interval, the probability that reporting group estimate is equal to zero ($P = 0$), mean, and SD.

Stratum 3 (7/23–8/5; Harvest = 46,778; n = 381)						
Reporting Group	Median ^a	90% CI		$P = 0$	Mean	SD
		5%	95%			
Asia	12,268	10,206	14,281	0.00	12,177	1,241
Kotzebue Sound	0	0	856	0.69	149	306
CWAK	837	5	1,617	0.05	845	450
Upper Yukon	0	0	2	0.94	3	25
Northern Dist.	0	0	231	0.74	39	134
Northwestern Dist.	3,618	2,107	5,293	0.00	3,624	974
South Peninsula	6,179	2,747	10,428	0.00	6,279	2,365
Chignik/Kodiak	13,418	9,140	17,390	0.00	13,272	2,511
East of Kodiak	10,459	8,471	12,485	0.00	10,396	1,220
Total	46,779				46,784	

Note: Harvest is the number of chum salmon reported to have been harvested and n is the final number of samples used in genetic analyses.

^a Adjusted median; 1.01 times unadjusted median.

Appendix C81.–Post-June, Shumagin Islands Section, Commercial, South Alaska Peninsula, Alaska Peninsula Area, Westward Region 2008 temporal stratum Late Catch. Reporting group-specific harvest estimates including adjusted median, 90% credibility interval, the probability that reporting group estimate is equal to zero ($P = 0$), mean, and SD.

Reporting Group	Stratum Late Catch (> 8/6; Harvest = 22,004; n = 0 ^a)					
	Median ^b	90% CI		$P = 0$	Mean	SD
		5%	95%			
Asia	0	0	0	1.00	0	0
Kotzebue Sound	0	0	0	1.00	0	0
CWAK	0	0	0	1.00	0	0
Upper Yukon	0	0	0	1.00	0	0
Northern Dist.	0	0	0	1.00	0	0
Northwestern Dist.	0	0	0	1.00	0	0
South Peninsula	22,004	20,228	23,846	0.00	21,999	1,100
Chignik/Kodiak	0	0	0	1.00	0	0
East of Kodiak	0	0	0	1.00	0	0
Total	22,004				21,999	

Note: Harvest is the number of chum salmon reported to have been harvested and n is the final number of samples used in genetic analyses.

^a Not part of WASSIP sampling plan. Assumed 100% fish harvested belong to South Peninsula reporting group.

^b Adjusted median; 1.00 times unadjusted median.

Appendix C82.—Post-June, Shumagin Islands Section, Commercial, South Alaska Peninsula, Alaska Peninsula Area, Westward Region 2009 temporal stratum 1. Reporting group-specific harvest estimates including adjusted median, 90% credibility interval, the probability that reporting group estimate is equal to zero ($P = 0$), mean, and SD.

Reporting Group	Stratum 1 (7/3–7/9; Harvest = 28,065; n = 331)					
	Median ^a	90% CI		$P = 0$	Mean	SD
		5%	95%			
Asia	7,202	5,877	8,442	0.00	7,111	782
Kotzebue Sound	940	397	1,644	0.00	960	383
CWAK	9,901	8,216	11,379	0.00	9,756	962
Upper Yukon	0	0	692	0.61	146	250
Northern Dist.	2,635	1,453	3,812	0.00	2,607	715
Northwestern Dist.	1,842	1,072	2,836	0.00	1,864	543
South Peninsula	2,572	1,087	4,194	0.00	2,566	953
Chignik/Kodiak	1,523	180	3,388	0.00	1,609	993
East of Kodiak	1,451	739	2,248	0.00	1,450	460
Total	28,066				28,069	

Note: Harvest is the number of chum salmon reported to have been harvested and n is the final number of samples used in genetic analyses.

^a Adjusted median; 1.02 times unadjusted median.

Appendix C83.—Post-June, Shumagin Islands Section, Commercial, South Alaska Peninsula, Alaska Peninsula Area, Westward Region 2009 temporal stratum 2. Reporting group-specific harvest estimates including adjusted median, 90% credibility interval, the probability that reporting group estimate is equal to zero ($P = 0$), mean, and SD.

Reporting Group	Stratum 2 (7/11–7/20; Harvest = 25,482; n = 397)					
	Median ^a	90% CI		$P = 0$	Mean	SD
		5%	95%			
Asia	3,449	2,676	4,283	0.00	3,441	490
Kotzebue Sound	0	0	58	0.81	10	46
CWAK	4,977	4,000	6,011	0.00	4,958	612
Upper Yukon	48	4	206	0.01	69	69
Northern Dist.	1,037	527	1,661	0.00	1,052	351
Northwestern Dist.	1,810	1,157	2,649	0.00	1,834	458
South Peninsula	6,926	4,501	9,162	0.00	6,854	1,414
Chignik/Kodiak	6,437	4,166	8,941	0.00	6,439	1,448
East of Kodiak	798	384	1,386	0.00	826	309
Total	25,482				25,483	

Note: Harvest is the number of chum salmon reported to have been harvested and n is the final number of samples used in genetic analyses.

^a Adjusted median; 1.01 times unadjusted median.

Appendix C84.–Post-June, Shumagin Islands Section, Commercial, South Alaska Peninsula, Alaska Peninsula Area, Westward Region 2009 temporal stratum 3. Reporting group-specific harvest estimates including adjusted median, 90% credibility interval, the probability that reporting group estimate is equal to zero ($P = 0$), mean, and SD.

Stratum 3 (7/21–7/31; Harvest = 64,953; n = 398)						
Reporting Group	Median ^a	90% CI		$P = 0$	Mean	SD
		5%	95%			
Asia	5,916	4,337	7,690	0.00	5,923	1,022
Kotzebue Sound	0	0	1	0.95	3	27
CWAK	2,091	1,109	3,375	0.00	2,135	694
Upper Yukon	0	0	1	0.94	3	28
Northern Dist.	1,145	396	2,361	0.00	1,225	618
Northwestern Dist.	2,833	1,597	4,405	0.00	2,881	860
South Peninsula	27,586	19,977	35,104	0.00	27,452	4,583
Chignik/Kodiak	22,852	15,408	30,375	0.00	22,761	4,534
East of Kodiak	2,530	1,499	3,972	0.00	2,593	757
Total	64,953				64,976	

Note: Harvest is the number of chum salmon reported to have been harvested and n is the final number of samples used in genetic analyses.

^a Adjusted median; 1.01 times unadjusted median.

Appendix C85.–Post-June, Shumagin Islands Section, Commercial, South Alaska Peninsula, Alaska Peninsula Area, Westward Region 2009 temporal stratum Late Catch. Reporting group-specific harvest estimates including adjusted median, 90% credibility interval, the probability that reporting group estimate is equal to zero ($P = 0$), mean, and SD.

Reporting Group	Stratum Late Catch (> 8/1; Harvest = 105,309; n = 0 ^a)					
	Median ^b	90% CI		$P = 0$	Mean	SD
		5%	95%			
Asia	0	0	0	1.00	0	0
Kotzebue Sound	0	0	0	1.00	0	0
CWAK	0	0	0	1.00	0	0
Upper Yukon	0	0	0	1.00	0	0
Northern Dist.	0	0	0	1.00	0	0
Northwestern Dist.	0	0	0	1.00	0	0
South Peninsula	105,309	96,883	114,232	0.00	105,331	5,280
Chignik/Kodiak	0	0	0	1.00	0	0
East of Kodiak	0	0	0	1.00	0	0
Total	105,309				105,331	

Note: Harvest is the number of chum salmon reported to have been harvested and n is the final number of samples used in genetic analyses.

^a Not part of WASSIP sampling plan. Assumed 100% fish harvested belong to South Peninsula reporting group.

^b Adjusted median; 1.00 times unadjusted median.

Appendix C86.—Post-June, Dolgoi Island area (statistical areas all 283-XX, and 284-00 through 284-42), Commercial, South Alaska Peninsula, Alaska Peninsula Area, Westward Region 2007 temporal stratum 1. Reporting group-specific harvest estimates including adjusted median, 90% credibility interval, the probability that reporting group estimate is equal to zero ($P = 0$), mean, and SD.

Stratum 1 (7/6–7/31; Harvest = 39,090; n = 443)						
Reporting Group	Median ^a	90% CI		$P = 0$	Mean	SD
		5%	95%			
Asia	1,477	928	2,165	0.00	1,493	380
Kotzebue Sound	0	0	0	0.95	2	15
CWAK	718	366	1,219	0.00	740	262
Upper Yukon	0	0	0	0.95	1	10
Northern Dist.	41	0	327	0.34	88	118
Northwestern Dist.	129	0	859	0.42	251	312
South Peninsula	20,052	15,490	24,876	0.00	19,976	2,854
Chignik/Kodiak	12,776	7,938	17,146	0.00	12,618	2,783
East of Kodiak	3,897	2,760	5,207	0.00	3,904	748
Total	39,090				39,073	

Note: Harvest is the number of chum salmon reported to have been harvested and n is the final number of samples used in genetic analyses.

^a Adjusted median; 1.01 times unadjusted median.

Appendix C87.—Post-June, Dolgoi Island area (statistical areas all 283-XX, and 284-00 through 284-42), Commercial, South Alaska Peninsula, Alaska Peninsula Area, Westward Region 2007 temporal stratum Late Catch. Reporting group-specific harvest estimates including adjusted median, 90% credibility interval, the probability that reporting group estimate is equal to zero ($P = 0$), mean, and SD.

Reporting Group	Stratum Late Catch (> 8/1; Harvest = 89,472; n = 0 ^a)					
	Median ^b	90% CI		$P = 0$	Mean	SD
		5%	95%			
Asia	0	0	0	1.00	0	0
Kotzebue Sound	0	0	0	1.00	0	0
CWAK	0	0	0	1.00	0	0
Upper Yukon	0	0	0	1.00	0	0
Northern Dist.	0	0	0	1.00	0	0
Northwestern Dist.	0	0	0	1.00	0	0
South Peninsula	89,472	82,306	97,003	0.00	89,489	4,468
Chignik/Kodiak	0	0	0	1.00	0	0
East of Kodiak	0	0	0	1.00	0	0
Total	89,472				89,489	

Note: Harvest is the number of chum salmon reported to have been harvested and n is the final number of samples used in genetic analyses.

^a Not part of WASSIP sampling plan. Assumed 100% fish harvested belong to South Peninsula reporting group.

^b Adjusted median; 1.00 times unadjusted median.

Appendix C88.—Post-June, Dolgoi Island area (statistical areas all 283-XX, and 284-00 through 284-42), Commercial, South Alaska Peninsula, Alaska Peninsula Area, Westward Region 2008 temporal stratum 1. Reporting group-specific harvest estimates including adjusted median, 90% credibility interval, the probability that reporting group estimate is equal to zero ($P = 0$), mean, and SD.

Stratum 1 (7/6–7/31; Harvest = 36,557; n = 422)						
Reporting Group	Median ^a	90% CI		$P = 0$	Mean	SD
		5%	95%			
Asia	4,213	3,172	5,219	0.00	4,138	626
Kotzebue Sound	0	0	1	0.95	1	14
CWAK	1,788	1,135	2,519	0.00	1,774	423
Upper Yukon	0	0	143	0.74	22	60
Northern Dist.	44	0	1,903	0.44	522	694
Northwestern Dist.	286	0	1,033	0.34	347	369
South Peninsula	27,392	22,468	30,258	0.00	26,588	2,347
Chignik/Kodiak	2,447	188	6,580	0.01	2,754	1,874
East of Kodiak	387	144	788	0.00	410	202
Total	36,557				36,556	

Note: Harvest is the number of chum salmon reported to have been harvested and n is the final number of samples used in genetic analyses.

^a Adjusted median; 1.03 times unadjusted median.

Appendix C89.—Post-June, Dolgoi Island area (statistical areas all 283-XX, and 284-00 through 284-42), Commercial, South Alaska Peninsula, Alaska Peninsula Area, Westward Region 2008 temporal stratum Late Catch. Reporting group-specific harvest estimates including adjusted median, 90% credibility interval, the probability that reporting group estimate is equal to zero ($P = 0$), mean, and SD.

Reporting Group	Stratum Late Catch (> 8/1; Harvest = 60,043; n = 0 ^a)					
	Median ^b	90% CI		$P = 0$	Mean	SD
		5%	95%			
Asia	0	0	0	1.00	0	0
Kotzebue Sound	0	0	0	1.00	0	0
CWAK	0	0	0	1.00	0	0
Upper Yukon	0	0	0	1.00	0	0
Northern Dist.	0	0	0	1.00	0	0
Northwestern Dist.	0	0	0	1.00	0	0
South Peninsula	60,043	55,264	65,105	0.00	60,057	2,995
Chignik/Kodiak	0	0	0	1.00	0	0
East of Kodiak	0	0	0	1.00	0	0
Total	60,043				60,057	

Note: Harvest is the number of chum salmon reported to have been harvested and n is the final number of samples used in genetic analyses.

^a Not part of WASSIP sampling plan. Assumed 100% fish harvested belong to South Peninsula reporting group.

^b Adjusted median; 1.00 times unadjusted median.

Appendix C90.—Post-June, Dolgoi Island area (statistical areas all 283-XX, and 284-00 through 284-42), Commercial, South Alaska Peninsula, Alaska Peninsula Area, Westward Region 2009 temporal stratum 1. Reporting group-specific harvest estimates including adjusted median, 90% credibility interval, the probability that reporting group estimate is equal to zero ($P = 0$), mean, and SD.

Stratum 1 (7/6–7/31; Harvest = 23,771; n = 352)						
Reporting Group	Median ^a	90% CI		$P = 0$	Mean	SD
		5%	95%			
Asia	468	196	878	0.00	490	211
Kotzebue Sound	0	0	65	0.89	12	58
CWAK	514	231	915	0.00	532	211
Upper Yukon	44	0	204	0.07	66	69
Northern Dist.	0	0	273	0.80	40	147
Northwestern Dist.	0	0	277	0.82	35	110
South Peninsula	13,480	10,126	16,654	0.00	13,359	1,985
Chignik/Kodiak	8,932	5,782	12,105	0.00	8,881	1,924
East of Kodiak	332	137	673	0.00	357	170
Total	23,770				23,772	

Note: Harvest is the number of chum salmon reported to have been harvested and n is the final number of samples used in genetic analyses.

^a Adjusted median; 1.01 times unadjusted median.

Appendix C91.—Post-June, Dolgoi Island area (statistical areas all 283-XX, and 284-00 through 284-42), Commercial, South Alaska Peninsula, Alaska Peninsula Area, Westward Region 2009 temporal stratum Late Catch. Reporting group-specific harvest estimates including adjusted median, 90% credibility interval, the probability that reporting group estimate is equal to zero ($P = 0$), mean, and SD.

Reporting Group	Stratum Late Catch (> 8/1; Harvest = 399,236; n = 0 ^a)					
	Median ^b	90% CI		$P = 0$	Mean	SD
		5%	95%			
Asia	0	0	0	1.00	0	0
Kotzebue Sound	0	0	0	1.00	0	0
CWAK	0	0	0	1.00	0	0
Upper Yukon	0	0	0	1.00	0	0
Northern Dist.	0	0	0	1.00	0	0
Northwestern Dist.	0	0	0	1.00	0	0
South Peninsula	399,236	367,183	432,904	0.00	399,253	19,959
Chignik/Kodiak	0	0	0	1.00	0	0
East of Kodiak	0	0	0	1.00	0	0
Total	399,236				399,253	

Note: Harvest is the number of chum salmon reported to have been harvested and n is the final number of samples used in genetic analyses.

^a Not part of WASSIP sampling plan. Assumed 100% fish harvested belong to South Peninsula reporting group.

^b Adjusted median; 1.00 times unadjusted median.

Appendix C92.—Post-June, Ikatan area (statistical area 284-45 through 284-99), Commercial, South Alaska Peninsula, Alaska Peninsula Area, Westward Region 2007 temporal stratum 1. Reporting group-specific harvest estimates including adjusted median, 90% credibility interval, the probability that reporting group estimate is equal to zero ($P = 0$), mean, and SD.

Reporting Group	Stratum 1 (7/6–7/31; Harvest = 3,612; n = 296)					
	Median ^a	90% CI		$P = 0$	Mean	SD
		5%	95%			
Asia	565	423	709	0.00	558	87
Kotzebue Sound	0	0	58	0.75	8	22
CWAK	644	473	828	0.00	638	108
Upper Yukon	5	0	60	0.45	16	22
Northern Dist.	671	423	916	0.00	662	150
Northwestern Dist.	951	694	1,192	0.00	937	152
South Peninsula	162	27	379	0.01	176	108
Chignik/Kodiak	456	229	714	0.00	456	149
East of Kodiak	159	87	253	0.00	161	51
Total	3,613				3,612	

Note: Harvest is the number of chum salmon reported to have been harvested and n is the final number of samples used in genetic analyses.

^a Adjusted median; 1.02 times unadjusted median.

Appendix C93.–Post-June, Ikatan area (statistical area 284-45 through 284-99), Commercial, South Alaska Peninsula, Alaska Peninsula Area, Westward Region 2007 temporal stratum Late Catch. Reporting group-specific harvest estimates including adjusted median, 90% credibility interval, the probability that reporting group estimate is equal to zero ($P = 0$), mean, and SD.

Reporting Group	Stratum Late Catch (> 8/1; Harvest = 33,583; n = 0 ^a)					
	Median ^b	90% CI		$P = 0$	Mean	SD
		5%	95%			
Asia	0	0	0	1.00	0	0
Kotzebue Sound	0	0	0	1.00	0	0
CWAK	0	0	0	1.00	0	0
Upper Yukon	0	0	0	1.00	0	0
Northern Dist.	0	0	0	1.00	0	0
Northwestern Dist.	0	0	0	1.00	0	0
South Peninsula	33,583	30,889	36,430	0.00	33,585	1,686
Chignik/Kodiak	0	0	0	1.00	0	0
East of Kodiak	0	0	0	1.00	0	0
Total	33,583				33,585	

Note: Harvest is the number of chum salmon reported to have been harvested and n is the final number of samples used in genetic analyses.

^a Not part of WASSIP sampling plan. Assumed 100% fish harvested belong to South Peninsula reporting group.

^b Adjusted median; 1.00 times unadjusted median.

Appendix C94.–Post-June, Ikatan area (statistical area 284-45 through 284-99), Commercial, South Alaska Peninsula, Alaska Peninsula Area, Westward Region 2008 temporal stratum 1. Reporting group-specific harvest estimates including adjusted median, 90% credibility interval, the probability that reporting group estimate is equal to zero ($P = 0$), mean, and SD.

Stratum 1 (7/6–7/31; Harvest = 11,674; n = 443)						
Reporting Group	Median ^a	90% CI		$P = 0$	Mean	SD
		5%	95%			
Asia	3,598	3,024	4,067	0.00	3,529	317
Kotzebue Sound	264	110	469	0.00	269	111
CWAK	1,147	803	1,491	0.00	1,131	209
Upper Yukon	151	61	289	0.00	158	71
Northern Dist.	378	81	867	0.00	408	250
Northwestern Dist.	1,371	905	1,852	0.00	1,356	289
South Peninsula	4,187	3,221	4,921	0.00	4,087	516
Chignik/Kodiak	191	0	1,097	0.23	348	393
East of Kodiak	386	227	586	0.00	389	110
Total	11,673				11,675	

Note: Harvest is the number of chum salmon reported to have been harvested and n is the final number of samples used in genetic analyses.

^a Adjusted median; 1.02 times unadjusted median.

Appendix C95.–Post-June, Ikatan area (statistical area 284-45 through 284-99), Commercial, South Alaska Peninsula, Alaska Peninsula Area, Westward Region 2008 temporal stratum Late Catch. Reporting group-specific harvest estimates including adjusted median, 90% credibility interval, the probability that reporting group estimate is equal to zero ($P = 0$), mean, and SD.

Reporting Group	Stratum Late Catch (> 8/1; Harvest = 45,053; n = 0 ^a)					
	Median ^b	90% CI		$P = 0$	Mean	SD
		5%	95%			
Asia	0	0	0	1.00	0	0
Kotzebue Sound	0	0	0	1.00	0	0
CWAK	0	0	0	1.00	0	0
Upper Yukon	0	0	0	1.00	0	0
Northern Dist.	0	0	0	1.00	0	0
Northwestern Dist.	0	0	0	1.00	0	0
South Peninsula	45,053	41,444	48,864	0.00	45,057	2,255
Chignik/Kodiak	0	0	0	1.00	0	0
East of Kodiak	0	0	0	1.00	0	0
Total	45,053				45,057	

Note: Harvest is the number of chum salmon reported to have been harvested and n is the final number of samples used in genetic analyses.

^a Not part of WASSIP sampling plan. Assumed 100% fish harvested belong to South Peninsula reporting group.

^b Adjusted median; 1.00 times unadjusted median.

Appendix C96.—Post-June, Ikatan area (statistical area 284-45 through 284-99), Commercial, South Alaska Peninsula, Alaska Peninsula Area, Westward Region 2009 temporal stratum 1. Reporting group-specific harvest estimates including adjusted median, 90% credibility interval, the probability that reporting group estimate is equal to zero ($P = 0$), mean, and SD.

Stratum 1 (7/6–7/31; Harvest = 13,288; n = 390)						
Reporting Group	Median ^a	90% CI		$P = 0$	Mean	SD
		5%	95%			
Asia	622	393	885	0.00	619	151
Kotzebue Sound	166	0	413	0.08	179	127
CWAK	2,473	1,882	3,005	0.00	2,423	341
Upper Yukon	0	0	29	0.88	5	21
Northern Dist.	2,183	1,398	3,017	0.00	2,157	493
Northwestern Dist.	2,845	2,004	3,805	0.00	2,825	553
South Peninsula	4,034	1,694	5,442	0.00	3,741	1,194
Chignik/Kodiak	799	9	3,378	0.00	1,164	1,184
East of Kodiak	165	68	317	0.00	173	78
Total	13,287				13,286	

Note: Harvest is the number of chum salmon reported to have been harvested and n is the final number of samples used in genetic analyses.

^a Adjusted median; 1.03 times unadjusted median.

Appendix C97.–Post-June, Ikatan area (statistical area 284-45 through 284-99), Commercial, South Alaska Peninsula, Alaska Peninsula Area, Westward Region 2009 temporal stratum Late Catch. Reporting group-specific harvest estimates including adjusted median, 90% credibility interval, the probability that reporting group estimate is equal to zero ($P = 0$), mean, and SD.

Reporting Group	Stratum Late Catch (> 8/1; Harvest = 165,048; n = 0 ^a)					
	Median ^b	90% CI		$P = 0$	Mean	SD
		5%	95%			
Asia	0	0	0	1.00	0	0
Kotzebue Sound	0	0	0	1.00	0	0
CWAK	0	0	0	1.00	0	0
Upper Yukon	0	0	0	1.00	0	0
Northern Dist.	0	0	0	1.00	0	0
Northwestern Dist.	0	0	0	1.00	0	0
South Peninsula	165,048	151,922	179,027	0.00	165,114	8,256
Chignik/Kodiak	0	0	0	1.00	0	0
East of Kodiak	0	0	0	1.00	0	0
Total	165,048				165,114	

Note: Harvest is the number of chum salmon reported to have been harvested and n is the final number of samples used in genetic analyses.

^a Not part of WASSIP sampling plan. Assumed 100% fish harvested belong to South Peninsula reporting group.

^b Adjusted median; 1.00 times unadjusted median.

Appendix C98.—Bear River Section, Commercial, Northern District, Alaska Peninsula Area, Westward Region 2007 temporal stratum 1. Reporting group-specific harvest estimates including adjusted median, 90% credibility interval, the probability that reporting group estimate is equal to zero ($P = 0$), mean, and SD.

Stratum 1 (6/11–7/31; Harvest = 23,270; n = 310)						
Reporting Group	Median ^a	90% CI		$P = 0$	Mean	SD
		5%	95%			
Asia	28	0	271	0.35	69	98
Kotzebue Sound	0	0	37	0.90	9	49
CWAK	3	0	268	0.44	58	102
Upper Yukon	0	0	0	0.96	1	8
Northern Dist.	22,863	20,697	24,701	0.00	22,657	1,218
Northwestern Dist.	376	0	1,271	0.13	455	426
South Peninsula	0	0	7	0.91	4	27
Chignik/Kodiak	0	0	36	0.89	12	67
East of Kodiak	0	0	4	0.92	2	17
Total	23,270				23,267	

Note: Harvest is the number of chum salmon reported to have been harvested and n is the final number of samples used in genetic analyses.

^a Adjusted median; 1.01 times unadjusted median.

Appendix C99.–Bear River Section, Commercial, Northern District, Alaska Peninsula Area, Westward Region 2007 temporal stratum Late Catch. Reporting group-specific harvest estimates including adjusted median, 90% credibility interval, the probability that reporting group estimate is equal to zero ($P = 0$), mean, and SD.

Reporting Group	Stratum Late Catch (> 8/6; Harvest = 6,238; n = 0 ^a)					
	Median ^b	90% CI		$P = 0$	Mean	SD
		5%	95%			
Asia	0	0	0	1.00	0	0
Kotzebue Sound	0	0	0	1.00	0	0
CWAK	0	0	0	1.00	0	0
Upper Yukon	0	0	0	1.00	0	0
Northern Dist.	6,238	5,734	6,766	0.00	6,238	313
Northwestern Dist.	0	0	0	1.00	0	0
South Peninsula	0	0	0	1.00	0	0
Chignik/Kodiak	0	0	0	1.00	0	0
East of Kodiak	0	0	0	1.00	0	0
Total	6,238				6,238	

Note: Harvest is the number of chum salmon reported to have been harvested and n is the final number of samples used in genetic analyses.

^a Not part of WASSIP sampling plan. Assumed 100% fish harvested belong to Northern District reporting group.

^b Adjusted median; 1.00 times unadjusted median.

Appendix C100.—Bear River Section, Commercial, Northern District, Alaska Peninsula Area, Westward Region 2008 temporal stratum Late Catch. Reporting group-specific harvest estimates including adjusted median, 90% credibility interval, the probability that reporting group estimate is equal to zero ($P = 0$), mean, and SD.

Reporting Group	Stratum Late Catch (> 8/11; Harvest = 3,201; n = 0 ^a)					
	Median ^b	90% CI		$P = 0$	Mean	SD
		5%	95%			
Asia	0	0	0	1.00	0	0
Kotzebue Sound	0	0	0	1.00	0	0
CWAK	0	0	0	1.00	0	0
Upper Yukon	0	0	0	1.00	0	0
Northern Dist.	3,201	2,944	3,470	0.00	3,200	160
Northwestern Dist.	0	0	0	1.00	0	0
South Peninsula	0	0	0	1.00	0	0
Chignik/Kodiak	0	0	0	1.00	0	0
East of Kodiak	0	0	0	1.00	0	0
Total	3,201				3,200	

Note: Harvest is the number of chum salmon reported to have been harvested and n is the final number of samples used in genetic analyses.

^a Not part of WASSIP sampling plan. Assumed 100% fish harvested belong to Northern District reporting group.

^b Adjusted median; 1.00 times unadjusted median.

Appendix C101.–Bear River Section, Commercial, Northern District, Alaska Peninsula Area, Westward Region 2009 temporal stratum 1. Reporting group-specific harvest estimates including adjusted median, 90% credibility interval, the probability that reporting group estimate is equal to zero ($P = 0$), mean, and SD.

Stratum 1 (6/8–7/28; Harvest = 14,154; n = 378)						
Reporting Group	Median ^a	90% CI		$P = 0$	Mean	SD
		5%	95%			
Asia	0	0	0	0.96	0	4
Kotzebue Sound	0	0	0	0.96	0	5
CWAK	0	0	5	0.93	11	71
Upper Yukon	0	0	0	0.96	0	4
Northern Dist.	13,078	11,805	14,236	0.00	12,998	741
Northwestern Dist.	1,000	507	1,630	0.00	1,021	344
South Peninsula	0	0	27	0.91	9	50
Chignik/Kodiak	0	0	167	0.76	24	67
East of Kodiak	76	16	216	0.00	90	64
Total	14,154				14,153	

Note: Harvest is the number of chum salmon reported to have been harvested and n is the final number of samples used in genetic analyses.

^a Adjusted median; 1.01 times unadjusted median.

Appendix C102.—Bear River Section, Commercial, Northern District, Alaska Peninsula Area, Westward Region 2009 temporal stratum Late Catch. Reporting group-specific harvest estimates including adjusted median, 90% credibility interval, the probability that reporting group estimate is equal to zero ($P = 0$), mean, and SD.

Reporting Group	Stratum Late Catch (> 8/6; Harvest = 4,035; n = 0 ^a)					
	Median ^b	90% CI		$P = 0$	Mean	SD
		5%	95%			
Asia	0	0	0	1.00	0	0
Kotzebue Sound	0	0	0	1.00	0	0
CWAK	0	0	0	1.00	0	0
Upper Yukon	0	0	0	1.00	0	0
Northern Dist.	4,035	3,711	4,374	0.00	4,033	202
Northwestern Dist.	0	0	0	1.00	0	0
South Peninsula	0	0	0	1.00	0	0
Chignik/Kodiak	0	0	0	1.00	0	0
East of Kodiak	0	0	0	1.00	0	0
Total	4,035				4,033	

Note: Harvest is the number of chum salmon reported to have been harvested and n is the final number of samples used in genetic analyses.

^a Not part of WASSIP sampling plan. Assumed 100% fish harvested belong to Northern District reporting group.

^b Adjusted median; 1.00 times unadjusted median.

Appendix C103.—Three Hills and Ilnik sections, Commercial, Northern District, Alaska Peninsula Area, Westward Region 2007 temporal stratum 1. Reporting group-specific harvest estimates including adjusted median, 90% credibility interval, the probability that reporting group estimate is equal to zero ($P = 0$), mean, and SD.

Stratum 1 (6/20–7/31; Harvest = 36,278; n = 385)						
Reporting Group	Median ^a	90% CI		$P = 0$	Mean	SD
		5%	95%			
Asia	0	0	0	0.95	1	11
Kotzebue Sound	0	0	3	0.93	4	28
CWAK	8,042	5,474	10,702	0.00	7,998	1,591
Upper Yukon	0	0	0	0.95	1	11
Northern Dist.	25,654	21,943	28,849	0.00	25,357	2,098
Northwestern Dist.	290	0	1,344	0.35	415	477
South Peninsula	0	0	77	0.90	23	122
Chignik/Kodiak	0	0	1,035	0.58	179	366
East of Kodiak	2,292	1,507	3,194	0.00	2,297	516
Total	36,278				36,275	

Note: Harvest is the number of chum salmon reported to have been harvested and n is the final number of samples used in genetic analyses.

^a Adjusted median; 1.01 times unadjusted median.

Appendix C104.—Three Hills and Ilnik sections, Commercial, Northern District, Alaska Peninsula Area, Westward Region 2007 temporal stratum Late Catch. Reporting group-specific harvest estimates including adjusted median, 90% credibility interval, the probability that reporting group estimate is equal to zero ($P = 0$), mean, and SD.

Reporting Group	Stratum Late Catch (> 8/6; Harvest = 2,474; n = 0 ^a)					
	Median ^b	90% CI		$P = 0$	Mean	SD
		5%	95%			
Asia	0	0	0	1.00	0	0
Kotzebue Sound	0	0	0	1.00	0	0
CWAK	0	0	0	1.00	0	0
Upper Yukon	0	0	0	1.00	0	0
Northern Dist.	2,474	2,276	2,681	0.00	2,474	123
Northwestern Dist.	0	0	0	1.00	0	0
South Peninsula	0	0	0	1.00	0	0
Chignik/Kodiak	0	0	0	1.00	0	0
East of Kodiak	0	0	0	1.00	0	0
Total	2,474				2,474	

Note: Harvest is the number of chum salmon reported to have been harvested and n is the final number of samples used in genetic analyses.

^a Not part of WASSIP sampling plan. Assumed 100% fish harvested belong to Northern District reporting group.

^b Adjusted median; 1.00 times unadjusted median.

Appendix C105.—Three Hills and Ilnik sections, Commercial, Northern District, Alaska Peninsula Area, Westward Region 2008 temporal stratum 1. Reporting group-specific harvest estimates including adjusted median, 90% credibility interval, the probability that reporting group estimate is equal to zero ($P = 0$), mean, and SD.

Reporting Group	Stratum 1 (6/30–7/11; Harvest = 5,831; n = 0 ^a)					
	Median ^b	90% CI		$P = 0$	Mean	SD
		5%	95%			
Asia	0	0	1	0.95	0	2
Kotzebue Sound	0	0	2	0.92	1	4
CWAK	1,047	700	1,440	0.00	1,049	226
Upper Yukon	0	0	1	0.95	0	2
Northern Dist.	4,476	3,909	4,967	0.00	4,433	321
Northwestern Dist.	35	0	161	0.32	50	57
South Peninsula	0	0	13	0.89	3	15
Chignik/Kodiak	0	0	124	0.57	22	44
East of Kodiak	273	180	381	0.00	273	61
Total	5,831				5,831	

Note: Harvest is the number of chum salmon reported to have been harvested and n is the final number of samples used in genetic analyses.

^a No samples collected. Average stock composition estimate from temporal stratum 1, 2007 and 2009, Three Hills and Ilnik sections used as proxy.

^b Adjusted median; 1.01 times unadjusted median.

Appendix C106.—Three Hills and Ilnik sections, Commercial, Northern District, Alaska Peninsula Area, Westward Region 2008 temporal stratum Late Catch. Reporting group-specific harvest estimates including adjusted median, 90% credibility interval, the probability that reporting group estimate is equal to zero ($P = 0$), mean, and SD.

Reporting Group	Stratum Late Catch (> 8/6; Harvest = 706; n = 0 ^a)					
	Median ^b	90% CI		$P = 0$	Mean	SD
		5%	95%			
Asia	0	0	0	1.00	0	0
Kotzebue Sound	0	0	0	1.00	0	0
CWAK	0	0	0	1.00	0	0
Upper Yukon	0	0	0	1.00	0	0
Northern Dist.	706	649	766	0.00	706	35
Northwestern Dist.	0	0	0	1.00	0	0
South Peninsula	0	0	0	1.00	0	0
Chignik/Kodiak	0	0	0	1.00	0	0
East of Kodiak	0	0	0	1.00	0	0
Total	706				706	

Note: Harvest is the number of chum salmon reported to have been harvested and n is the final number of samples used in genetic analyses.

^a Not part of WASSIP sampling plan. Assumed 100% fish harvested belong to Northern District reporting group.

^b Adjusted median; 1.00 times unadjusted median.

Appendix C107.—Three Hills and Ilnik sections, Commercial, Northern District, Alaska Peninsula Area, Westward Region 2009 temporal stratum 1. Reporting group-specific harvest estimates including adjusted median, 90% credibility interval, the probability that reporting group estimate is equal to zero ($P = 0$), mean, and SD.

Stratum 1 (6/27–7/28; Harvest = 12,818; n = 171)						
Reporting Group	Median ^a	90% CI		$P = 0$	Mean	SD
		5%	95%			
Asia	0	0	0	0.96	1	9
Kotzebue Sound	0	0	1	0.95	2	16
CWAK	259	0	2,865	0.13	830	1,025
Upper Yukon	0	0	0	0.95	1	8
Northern Dist.	12,559	9,757	13,602	0.00	11,964	1,190
Northwestern Dist.	0	0	39	0.89	7	33
South Peninsula	0	0	1	0.95	2	15
Chignik/Kodiak	0	0	23	0.91	8	48
East of Kodiak	0	0	27	0.76	5	20
Total	12,818				12,820	

Note: Harvest is the number of chum salmon reported to have been harvested and n is the final number of samples used in genetic analyses.

^a Adjusted median; 1.03 times unadjusted median.

Appendix C108.—Three Hills and Ilnik sections, Commercial, Northern District, Alaska Peninsula Area, Westward Region 2009 temporal stratum Late Catch. Reporting group-specific harvest estimates including adjusted median, 90% credibility interval, the probability that reporting group estimate is equal to zero ($P = 0$), mean, and SD.

Reporting Group	Stratum Late Catch (> 8/6; Harvest = 2,263; n = 0 ^a)					
	Median ^b	90% CI		$P = 0$	Mean	SD
		5%	95%			
Asia	0	0	0	1.00	0	0
Kotzebue Sound	0	0	0	1.00	0	0
CWAK	0	0	0	1.00	0	0
Upper Yukon	0	0	0	1.00	0	0
Northern Dist.	2,263	2,083	2,455	0.00	2,263	114
Northwestern Dist.	0	0	0	1.00	0	0
South Peninsula	0	0	0	1.00	0	0
Chignik/Kodiak	0	0	0	1.00	0	0
East of Kodiak	0	0	0	1.00	0	0
Total	2,263				2,263	

Note: Harvest is the number of chum salmon reported to have been harvested and n is the final number of samples used in genetic analyses.

^a Not part of WASSIP sampling plan. Assumed 100% fish harvested belong to Northern District reporting group.

^b Adjusted median; 1.00 times unadjusted median.

Appendix C109.—Eastside districts (Ugashik, Egegik, and Naknek-Kvichak districts), Commercial, Bristol Bay Area, Central Region 2007 temporal stratum 1. Reporting group-specific harvest estimates including adjusted median, 90% credibility interval, the probability that reporting group estimate is equal to zero ($P = 0$), mean, and SD.

Reporting Group	Stratum 1 (6/12–6/26; Harvest = 19,748; n = 295)					
	Median ^a	90% CI		$P = 0$	Mean	SD
		5%	95%			
Asia	0	0	13	0.91	4	21
Kotzebue Sound	0	0	1	0.95	2	16
CWAK	17,635	14,469	20,998	0.00	17,570	1,992
Upper Yukon	0	0	0	0.95	1	11
Northern Dist.	2,113	702	3,832	0.01	2,159	962
Northwestern Dist.	0	0	0	0.96	1	8
South Peninsula	0	0	1	0.95	1	11
Chignik/Kodiak	0	0	0	0.96	1	9
East of Kodiak	0	0	87	0.79	13	39
Total	19,748				19,752	

Note: Harvest is the number of chum salmon reported to have been harvested and n is the final number of samples used in genetic analyses.

^a Adjusted median; 1.01 times unadjusted median.

Appendix C110.—Eastside districts (Ugashik, Egegik, and Naknek-Kvichak districts), Commercial, Bristol Bay Area, Central Region 2007 temporal stratum 2. Reporting group-specific harvest estimates including adjusted median, 90% credibility interval, the probability that reporting group estimate is equal to zero ($P = 0$), mean, and SD.

Stratum 2 (6/27–6/29; Harvest = 21,890; n = 260)						
Reporting Group	Median ^a	90% CI		$P = 0$	Mean	SD
		5%	95%			
Asia	0	0	0	0.96	1	9
Kotzebue Sound	0	0	41	0.91	12	65
CWAK	21,890	18,447	25,653	0.00	21,864	2,190
Upper Yukon	0	0	1	0.95	1	14
Northern Dist.	0	0	65	0.68	14	62
Northwestern Dist.	0	0	0	0.95	1	8
South Peninsula	0	0	0	0.96	1	9
Chignik/Kodiak	0	0	0	0.95	1	9
East of Kodiak	0	0	0	0.95	1	9
Total	21,890				21,896	

Note: Harvest is the number of chum salmon reported to have been harvested and n is the final number of samples used in genetic analyses.

^a Adjusted median; 1.01 times unadjusted median.

Appendix C111.–Eastside districts (Ugashik, Egegik, and Naknek-Kvichak districts), Commercial, Bristol Bay Area, Central Region 2007 temporal stratum 3. Reporting group-specific harvest estimates including adjusted median, 90% credibility interval, the probability that reporting group estimate is equal to zero ($P = 0$), mean, and SD.

Stratum 3 (6/30–7/5; Harvest = 53,548; n = 338)						
Reporting Group	Median ^a	90% CI		$P = 0$	Mean	SD
		5%	95%			
Asia	0	0	1	0.95	2	18
Kotzebue Sound	0	0	1	0.94	4	39
CWAK	53,544	45,032	62,653	0.00	53,413	5,370
Upper Yukon	0	0	2	0.94	6	61
Northern Dist.	4	0	765	0.38	130	358
Northwestern Dist.	0	0	1	0.95	2	21
South Peninsula	0	0	1	0.95	2	18
Chignik/Kodiak	0	0	1	0.95	2	17
East of Kodiak	0	0	1	0.95	2	19
Total	53,548				53,563	

Note: Harvest is the number of chum salmon reported to have been harvested and n is the final number of samples used in genetic analyses.

^a Adjusted median; 1.01 times unadjusted median.

Appendix C112.—Eastside districts (Ugashik, Egegik, and Naknek-Kvichak districts), Commercial, Bristol Bay Area, Central Region 2007 temporal stratum 4. Reporting group-specific harvest estimates including adjusted median, 90% credibility interval, the probability that reporting group estimate is equal to zero ($P = 0$), mean, and SD.

Stratum 4 (7/6–7/15; Harvest = 297,094; n = 325)						
Reporting Group	Median ^a	90% CI		$P = 0$	Mean	SD
		5%	95%			
Asia	0	0	3	0.93	10	101
Kotzebue Sound	0	0	5	0.93	16	151
CWAK	240,371	195,738	289,312	0.00	240,005	28,614
Upper Yukon	0	0	4	0.93	12	120
Northern Dist.	56,723	30,813	85,183	0.00	56,863	16,683
Northwestern Dist.	0	0	9	0.92	21	187
South Peninsula	0	0	3	0.93	10	97
Chignik/Kodiak	0	0	4	0.93	13	128
East of Kodiak	0	0	12	0.92	22	180
Total	297,094				296,972	

Note: Harvest is the number of chum salmon reported to have been harvested and n is the final number of samples used in genetic analyses.

^a Adjusted median; 1.01 times unadjusted median.

Appendix C113.—Eastside districts (Ugashik, Egegik, and Naknek-Kvichak districts), Commercial, Bristol Bay Area, Central Region 2007 temporal stratum 5. Reporting group-specific harvest estimates including adjusted median, 90% credibility interval, the probability that reporting group estimate is equal to zero ($P = 0$), mean, and SD.

Stratum 5 (7/16–8/31; Harvest = 391,663; n = 364)						
Reporting Group	Median ^a	90% CI		$P = 0$	Mean	SD
		5%	95%			
Asia	0	0	5	0.93	14	142
Kotzebue Sound	0	0	18	0.92	39	348
CWAK	389,822	322,679	452,576	0.00	384,397	39,727
Upper Yukon	0	0	7	0.93	18	166
Northern Dist.	1,841	0	27,127	0.30	7,102	9,670
Northwestern Dist.	0	0	4	0.93	12	122
South Peninsula	0	0	7	0.93	21	195
Chignik/Kodiak	0	0	9	0.92	23	204
East of Kodiak	0	0	4	0.93	11	117
Total	391,663				391,637	

Note: Harvest is the number of chum salmon reported to have been harvested and n is the final number of samples used in genetic analyses.

^a Adjusted median; 1.02 times unadjusted median.

Appendix C114.–Eastside districts (Ugashik, Egegik, and Naknek-Kvichak districts), Commercial, Bristol Bay Area, Central Region 2008 temporal stratum 1. Reporting group-specific harvest estimates including adjusted median, 90% credibility interval, the probability that reporting group estimate is equal to zero ($P = 0$), mean, and SD.

Stratum 1 (6/9–6/26; Harvest = 17,283; n = 444)						
Reporting Group	Median ^a	90% CI		$P = 0$	Mean	SD
		5%	95%			
Asia	0	0	0	0.96	0	5
Kotzebue Sound	0	0	0	0.95	1	9
CWAK	15,074	12,379	17,976	0.00	15,031	1,706
Upper Yukon	0	0	0	0.96	1	8
Northern Dist.	2,209	994	3,702	0.00	2,249	834
Northwestern Dist.	0	0	1	0.95	1	9
South Peninsula	0	0	4	0.93	2	13
Chignik/Kodiak	0	0	5	0.93	3	16
East of Kodiak	0	0	0	0.96	1	5
Total	17,283				17,289	

Note: Harvest is the number of chum salmon reported to have been harvested and n is the final number of samples used in genetic analyses.

^a Adjusted median; 1.01 times unadjusted median.

Appendix C115.—Eastside districts (Ugashik, Egegik, and Naknek-Kvichak districts), Commercial, Bristol Bay Area, Central Region 2008 temporal stratum 2. Reporting group-specific harvest estimates including adjusted median, 90% credibility interval, the probability that reporting group estimate is equal to zero ($P = 0$), mean, and SD.

Stratum 2 (6/27–7/1; Harvest = 31,293; n = 344)						
Reporting Group	Median ^a	90% CI		$P = 0$	Mean	SD
		5%	95%			
Asia	0	0	0	0.48	1	10
Kotzebue Sound	0	0	222	0.44	29	118
CWAK	31,293	26,373	36,665	0.00	31,241	3,133
Upper Yukon	0	0	0	0.48	1	13
Northern Dist.	0	0	2	0.47	24	244
Northwestern Dist.	0	0	0	0.48	1	9
South Peninsula	0	0	0	0.48	1	10
Chignik/Kodiak	0	0	0	0.48	1	10
East of Kodiak	0	0	0	0.48	1	9
Total	31,293				31,300	

Note: Harvest is the number of chum salmon reported to have been harvested and n is the final number of samples used in genetic analyses.

^a Adjusted median; 1.01 times unadjusted median.

Appendix C116.—Eastside districts (Ugashik, Egegik, and Naknek-Kvichak districts), Commercial, Bristol Bay Area, Central Region 2008 temporal stratum 3. Reporting group-specific harvest estimates including adjusted median, 90% credibility interval, the probability that reporting group estimate is equal to zero ($P = 0$), mean, and SD.

Stratum 3 (7/2–7/10; Harvest = 117,073; n = 394)						
Reporting Group	Median ^a	90% CI		$P = 0$	Mean	SD
		5%	95%			
Asia	0	0	1	0.94	4	44
Kotzebue Sound	0	0	3	0.93	11	115
CWAK	103,730	86,074	124,321	0.00	104,030	11,713
Upper Yukon	0	0	1	0.94	3	31
Northern Dist.	13,343	0	21,525	0.06	12,991	5,571
Northwestern Dist.	0	0	1	0.94	4	35
South Peninsula	0	0	1	0.94	4	34
Chignik/Kodiak	0	0	1	0.94	4	35
East of Kodiak	0	0	1	0.94	3	31
Total	117,073				117,054	

Note: Harvest is the number of chum salmon reported to have been harvested and n is the final number of samples used in genetic analyses.

^a Adjusted median; 1.00 times unadjusted median.

Appendix C117.–Eastside districts (Ugashik, Egegik, and Naknek-Kvichak districts), Commercial, Bristol Bay Area, Central Region 2008 temporal stratum 4. Reporting group-specific harvest estimates including adjusted median, 90% credibility interval, the probability that reporting group estimate is equal to zero ($P = 0$), mean, and SD.

Stratum 4 (7/11–7/17; Harvest = 155,773; n = 390)						
Reporting Group	Median ^a	90% CI		$P = 0$	Mean	SD
		5%	95%			
Asia	0	0	2	0.94	6	55
Kotzebue Sound	0	0	3	0.93	12	119
CWAK	144,863	120,643	170,165	0.00	144,154	15,089
Upper Yukon	0	0	3	0.93	8	77
Northern Dist.	10,910	4,721	19,399	0.00	11,253	4,522
Northwestern Dist.	0	0	2	0.94	6	63
South Peninsula	0	0	199	0.88	36	176
Chignik/Kodiak	0	0	887	0.65	154	356
East of Kodiak	0	0	673	0.74	102	282
Total	155,773				155,731	

Note: Harvest is the number of chum salmon reported to have been harvested and n is the final number of samples used in genetic analyses.

^a Adjusted median; 1.01 times unadjusted median.

Appendix C118.—Eastside districts (Ugashik, Egegik, and Naknek-Kvichak districts), Commercial, Bristol Bay Area, Central Region 2008 temporal stratum 5. Reporting group-specific harvest estimates including adjusted median, 90% credibility interval, the probability that reporting group estimate is equal to zero ($P = 0$), mean, and SD.

Stratum 5 (7/18–8/21; Harvest = 144,031; n = 391)						
Reporting Group	Median ^a	90% CI		$P = 0$	Mean	SD
		5%	95%			
Asia	0	0	2	0.94	6	57
Kotzebue Sound	0	0	1,493	0.78	203	613
CWAK	144,031	120,251	167,659	0.00	142,761	14,424
Upper Yukon	0	0	3	0.93	8	74
Northern Dist.	0	0	5,172	0.60	744	2,021
Northwestern Dist.	0	0	619	0.78	88	272
South Peninsula	0	0	584	0.83	75	267
Chignik/Kodiak	0	0	744	0.79	101	305
East of Kodiak	0	0	542	0.86	70	282
Total	144,031				144,056	

Note: Harvest is the number of chum salmon reported to have been harvested and n is the final number of samples used in genetic analyses.

^a Adjusted median; 1.01 times unadjusted median.

Appendix C119.—Eastside districts (Ugashik, Egegik, and Naknek-Kvichak districts), Commercial, Bristol Bay Area, Central Region 2009 temporal stratum 1. Reporting group-specific harvest estimates including adjusted median, 90% credibility interval, the probability that reporting group estimate is equal to zero ($P = 0$), mean, and SD.

Stratum 1 (6/15–6/25; Harvest = 26,739; n = 386)						
Reporting Group	Median ^a	90% CI		$P = 0$	Mean	SD
		5%	95%			
Asia	0	0	0	0.95	1	11
Kotzebue Sound	0	0	1	0.94	3	25
CWAK	25,007	20,577	29,737	0.00	24,947	2,787
Upper Yukon	0	0	2	0.93	3	24
Northern Dist.	1,732	0	4,004	0.08	1,783	1,267
Northwestern Dist.	0	0	1	0.94	2	17
South Peninsula	0	0	0	0.96	1	8
Chignik/Kodiak	0	0	0	0.96	1	9
East of Kodiak	0	0	0	0.96	1	7
Total	26,739				26,742	

Note: Harvest is the number of chum salmon reported to have been harvested and n is the final number of samples used in genetic analyses.

^a Adjusted median; 1.01 times unadjusted median.

Appendix C120.—Eastside districts (Ugashik, Egegik, and Naknek-Kvichak districts), Commercial, Bristol Bay Area, Central Region 2009 temporal stratum 2. Reporting group-specific harvest estimates including adjusted median, 90% credibility interval, the probability that reporting group estimate is equal to zero ($P = 0$), mean, and SD.

Stratum 2 (6/26–6/30; Harvest = 40,632; n = 349)						
Reporting Group	Median ^a	90% CI		$P = 0$	Mean	SD
		5%	95%			
Asia	0	0	0	0.48	1	14
Kotzebue Sound	0	0	2	0.47	5	47
CWAK	40,632	34,129	47,494	0.00	40,476	4,078
Upper Yukon	0	0	1	0.47	2	17
Northern Dist.	0	0	1,383	0.42	155	498
Northwestern Dist.	0	0	0	0.48	1	11
South Peninsula	0	0	0	0.48	1	11
Chignik/Kodiak	0	0	0	0.48	1	12
East of Kodiak	0	0	1	0.47	2	19
Total	40,632				40,644	

Note: Harvest is the number of chum salmon reported to have been harvested and n is the final number of samples used in genetic analyses.

^a Adjusted median; 1.01 times unadjusted median.

Appendix C121.–Eastside districts (Ugashik, Egegik, and Naknek-Kvichak districts), Commercial, Bristol Bay Area, Central Region 2009 temporal stratum 3. Reporting group-specific harvest estimates including adjusted median, 90% credibility interval, the probability that reporting group estimate is equal to zero ($P = 0$), mean, and SD.

Stratum 3 (7/1–7/6; Harvest = 58,075; n = 376)						
Reporting Group	Median ^a	90% CI		$P = 0$	Mean	SD
		5%	95%			
Asia	0	0	1	0.95	2	22
Kotzebue Sound	0	0	2	0.94	5	47
CWAK	52,566	43,362	62,991	0.00	52,604	5,975
Upper Yukon	0	0	1	0.95	2	18
Northern Dist.	5,509	127	10,229	0.03	5,445	2,920
Northwestern Dist.	0	0	1	0.95	2	20
South Peninsula	0	0	1	0.94	3	26
Chignik/Kodiak	0	0	1	0.95	2	22
East of Kodiak	0	0	1	0.95	2	17
Total	58,075				58,067	

Note: Harvest is the number of chum salmon reported to have been harvested and n is the final number of samples used in genetic analyses.

^a Adjusted median; 1.01 times unadjusted median.

Appendix C122.—Eastside districts (Ugashik, Egegik, and Naknek-Kvichak districts), Commercial, Bristol Bay Area, Central Region 2009 temporal stratum 4. Reporting group-specific harvest estimates including adjusted median, 90% credibility interval, the probability that reporting group estimate is equal to zero ($P = 0$), mean, and SD.

Stratum 4 (7/7–7/11; Harvest = 107,247; n = 375)						
Reporting Group	Median ^a	90% CI		$P = 0$	Mean	SD
		5%	95%			
Asia	0	0	1	0.94	3	34
Kotzebue Sound	0	0	4	0.93	10	91
CWAK	96,487	79,284	115,812	0.00	96,577	11,147
Upper Yukon	0	0	1	0.94	3	32
Northern Dist.	10,760	137	20,192	0.03	10,647	5,754
Northwestern Dist.	0	0	1	0.94	3	30
South Peninsula	0	0	1	0.94	3	34
Chignik/Kodiak	0	0	2	0.94	5	46
East of Kodiak	0	0	1	0.94	3	32
Total	107,247				107,254	

Note: Harvest is the number of chum salmon reported to have been harvested and n is the final number of samples used in genetic analyses.

^a Adjusted median; 1.01 times unadjusted median.

Appendix C123.—Eastside districts (Ugashik, Egegik, and Naknek-Kvichak districts), Commercial, Bristol Bay Area, Central Region 2009 temporal stratum 5. Reporting group-specific harvest estimates including adjusted median, 90% credibility interval, the probability that reporting group estimate is equal to zero ($P = 0$), mean, and SD.

Stratum 5 (7/12–8/31; Harvest = 206,012; n = 358)						
Reporting Group	Median ^a	90% CI		$P = 0$	Mean	SD
		5%	95%			
Asia	0	0	4	0.93	13	123
Kotzebue Sound	0	0	7	0.93	20	192
CWAK	206,012	171,752	240,156	0.00	204,398	20,887
Upper Yukon	0	0	11	0.92	17	138
Northern Dist.	0	0	9,235	0.83	1,098	4,162
Northwestern Dist.	0	0	6	0.93	13	114
South Peninsula	0	0	223	0.89	61	328
Chignik/Kodiak	0	0	68	0.90	41	255
East of Kodiak	0	0	1,775	0.65	316	663
Total	206,012				205,977	

Note: Harvest is the number of chum salmon reported to have been harvested and n is the final number of samples used in genetic analyses.

^a Adjusted median; 1.01 times unadjusted median.

Appendix C124.–Nushagak District, Commercial, Bristol Bay Area, Central Region 2007 temporal stratum 1. Reporting group-specific harvest estimates including adjusted median, 90% credibility interval, the probability that reporting group estimate is equal to zero ($P = 0$), mean, and SD.

Stratum 1 (6/11–6/27; Harvest = 265,860; n = 607)						
Reporting Group	Median ^a	90% CI		$P = 0$	Mean	SD
		5%	95%			
Asia	0	0	2	0.94	5	49
Kotzebue Sound	0	0	5	0.93	16	155
CWAK	265,860	224,436	311,545	0.00	265,794	26,539
Upper Yukon	0	0	2	0.93	7	75
Northern Dist.	0	0	3	0.93	8	82
Northwestern Dist.	0	0	2	0.94	5	47
South Peninsula	0	0	1	0.94	4	41
Chignik/Kodiak	0	0	2	0.94	5	46
East of Kodiak	0	0	1	0.94	4	43
Total	265,860				265,848	

Note: Harvest is the number of chum salmon reported to have been harvested and n is the final number of samples used in genetic analyses.

^a Adjusted median; 1.00 times unadjusted median.

Appendix C125.–Nushagak District, Commercial, Bristol Bay Area, Central Region 2007 temporal stratum 2. Reporting group-specific harvest estimates including adjusted median, 90% credibility interval, the probability that reporting group estimate is equal to zero ($P = 0$), mean, and SD.

Stratum 2 (6/28–7/7; Harvest = 472,835; n = 600)						
Reporting Group	Median ^a	90% CI		$P = 0$	Mean	SD
		5%	95%			
Asia	0	0	3	0.93	8	83
Kotzebue Sound	0	0	10	0.92	30	302
CWAK	472,835	399,095	554,770	0.00	472,834	47,479
Upper Yukon	0	0	13	0.92	32	301
Northern Dist.	0	0	3	0.93	9	88
Northwestern Dist.	0	0	3	0.93	8	77
South Peninsula	0	0	3	0.93	8	82
Chignik/Kodiak	0	0	3	0.94	8	77
East of Kodiak	0	0	3	0.93	8	80
Total	472,835				472,945	

Note: Harvest is the number of chum salmon reported to have been harvested and n is the final number of samples used in genetic analyses.

^a Adjusted median; 1.00 times unadjusted median.

Appendix C126.–Nushagak District, Commercial, Bristol Bay Area, Central Region 2007 temporal stratum 3. Reporting group-specific harvest estimates including adjusted median, 90% credibility interval, the probability that reporting group estimate is equal to zero ($P = 0$), mean, and SD.

Stratum 3 (7/8–7/12; Harvest = 144,692; n = 409)						
Reporting Group	Median ^a	90% CI		$P = 0$	Mean	SD
		5%	95%			
Asia	0	0	1	0.94	4	37
Kotzebue Sound	0	0	4	0.93	11	105
CWAK	144,692	122,070	169,610	0.00	144,666	14,478
Upper Yukon	0	0	3	0.93	10	105
Northern Dist.	0	0	1	0.94	5	47
Northwestern Dist.	0	0	1	0.94	3	34
South Peninsula	0	0	1	0.94	3	36
Chignik/Kodiak	0	0	1	0.94	4	38
East of Kodiak	0	0	1	0.94	4	35
Total	144,692				144,710	

Note: Harvest is the number of chum salmon reported to have been harvested and n is the final number of samples used in genetic analyses.

^a Adjusted median; 1.01 times unadjusted median.

Appendix C127.–Nushagak District, Commercial, Bristol Bay Area, Central Region 2007 temporal stratum 4. Reporting group-specific harvest estimates including adjusted median, 90% credibility interval, the probability that reporting group estimate is equal to zero ($P = 0$), mean, and SD.

Stratum 4 (7/13–7/17; Harvest = 51,215; n = 428)						
Reporting Group	Median ^a	90% CI		$P = 0$	Mean	SD
		5%	95%			
Asia	0	0	0	0.95	1	14
Kotzebue Sound	0	0	2	0.94	5	43
CWAK	51,215	43,204	60,028	0.00	51,194	5,127
Upper Yukon	0	0	67	0.89	12	62
Northern Dist.	0	0	1	0.95	2	21
Northwestern Dist.	0	0	0	0.95	1	13
South Peninsula	0	0	0	0.95	1	13
Chignik/Kodiak	0	0	0	0.95	1	12
East of Kodiak	0	0	0	0.95	1	13
Total	51,215				51,218	

Note: Harvest is the number of chum salmon reported to have been harvested and n is the final number of samples used in genetic analyses.

^a Adjusted median; 1.01 times unadjusted median.

Appendix C128.—Nushagak District, Commercial, Bristol Bay Area, Central Region 2007 temporal stratum 5. Reporting group-specific harvest estimates including adjusted median, 90% credibility interval, the probability that reporting group estimate is equal to zero ($P = 0$), mean, and SD.

Stratum 5 (7/18–8/12; Harvest = 18,680; n = 506)						
Reporting Group	Median ^a	90% CI		$P = 0$	Mean	SD
		5%	95%			
Asia	0	0	0	0.96	0	4
Kotzebue Sound	0	0	1	0.95	1	14
CWAK	18,680	15,784	21,891	0.00	18,681	1,867
Upper Yukon	0	0	0	0.95	1	10
Northern Dist.	0	0	0	0.96	1	5
Northwestern Dist.	0	0	0	0.96	0	4
South Peninsula	0	0	0	0.96	0	4
Chignik/Kodiak	0	0	0	0.96	0	4
East of Kodiak	0	0	0	0.96	0	4
Total	18,680				18,684	

Note: Harvest is the number of chum salmon reported to have been harvested and n is the final number of samples used in genetic analyses.

^a Adjusted median; 1.01 times unadjusted median.

Appendix C129.—Nushagak District, Commercial, Bristol Bay Area, Central Region 2008 temporal stratum 1. Reporting group-specific harvest estimates including adjusted median, 90% credibility interval, the probability that reporting group estimate is equal to zero ($P = 0$), mean, and SD.

Stratum 1 (6/9–6/29; Harvest = 141,546; n = 591)						
Reporting Group	Median ^a	90% CI		$P = 0$	Mean	SD
		5%	95%			
Asia	0	0	1	0.94	3	28
Kotzebue Sound	0	0	2	0.94	6	57
CWAK	141,546	119,528	165,759	0.00	141,434	14,135
Upper Yukon	0	0	2	0.94	5	46
Northern Dist.	0	0	49	0.90	15	84
Northwestern Dist.	0	0	249	0.82	35	125
South Peninsula	0	0	352	0.75	53	149
Chignik/Kodiak	0	0	171	0.86	26	110
East of Kodiak	0	0	1	0.94	3	30
Total	141,546				141,580	

Note: Harvest is the number of chum salmon reported to have been harvested and n is the final number of samples used in genetic analyses.

^a Adjusted median; 1.01 times unadjusted median.

Appendix C130.–Nushagak District, Commercial, Bristol Bay Area, Central Region 2008 temporal stratum 2. Reporting group-specific harvest estimates including adjusted median, 90% credibility interval, the probability that reporting group estimate is equal to zero ($P = 0$), mean, and SD.

Stratum 2 (6/30–7/5; Harvest = 157,623; n = 625)						
Reporting Group	Median ^a	90% CI		$P = 0$	Mean	SD
		5%	95%			
Asia	0	0	2	0.94	5	51
Kotzebue Sound	0	0	2	0.94	6	63
CWAK	157,623	133,241	184,778	0.00	157,687	15,734
Upper Yukon	0	0	1	0.94	3	35
Northern Dist.	0	0	1	0.94	3	31
Northwestern Dist.	0	0	1	0.94	3	26
South Peninsula	0	0	1	0.95	2	24
Chignik/Kodiak	0	0	1	0.94	3	28
East of Kodiak	0	0	1	0.94	3	30
Total	157,623				157,715	

Note: Harvest is the number of chum salmon reported to have been harvested and n is the final number of samples used in genetic analyses.

^a Adjusted median; 1.00 times unadjusted median.

Appendix C131.–Nushagak District, Commercial, Bristol Bay Area, Central Region 2008 temporal stratum 3. Reporting group-specific harvest estimates including adjusted median, 90% credibility interval, the probability that reporting group estimate is equal to zero ($P = 0$), mean, and SD.

Stratum 3 (7/6–7/11; Harvest = 134,421; n = 605)						
Reporting Group	Median ^a	90% CI		$P = 0$	Mean	SD
		5%	95%			
Asia	0	0	1	0.94	3	29
Kotzebue Sound	0	0	16	0.92	13	97
CWAK	134,294	112,651	156,649	0.00	133,611	13,435
Upper Yukon	0	0	9	0.92	14	113
Northern Dist.	0	0	3,473	0.75	513	1,195
Northwestern Dist.	0	0	1	0.94	3	27
South Peninsula	0	0	4	0.93	6	51
Chignik/Kodiak	0	0	151	0.86	23	101
East of Kodiak	127	0	657	0.13	199	230
Total	134,421				134,385	

Note: Harvest is the number of chum salmon reported to have been harvested and n is the final number of samples used in genetic analyses.

^a Adjusted median; 1.01 times unadjusted median.

Appendix C132.–Nushagak District, Commercial, Bristol Bay Area, Central Region 2008 temporal stratum 4. Reporting group-specific harvest estimates including adjusted median, 90% credibility interval, the probability that reporting group estimate is equal to zero ($P = 0$), mean, and SD.

Stratum 4 (7/12–7/15; Harvest = 45,039; n = 580)						
Reporting Group	Median ^a	90% CI		$P = 0$	Mean	SD
		5%	95%			
Asia	0	0	0	0.96	1	9
Kotzebue Sound	0	0	1	0.95	2	24
CWAK	45,039	38,004	52,771	0.00	45,018	4,504
Upper Yukon	0	0	13	0.92	7	39
Northern Dist.	0	0	0	0.96	1	9
Northwestern Dist.	0	0	0	0.96	1	8
South Peninsula	0	0	0	0.96	1	8
Chignik/Kodiak	0	0	0	0.96	1	9
East of Kodiak	0	0	0	0.96	1	8
Total	45,039				45,033	

Note: Harvest is the number of chum salmon reported to have been harvested and n is the final number of samples used in genetic analyses.

^a Adjusted median; 1.01 times unadjusted median.

Appendix C133.–Nushagak District, Commercial, Bristol Bay Area, Central Region 2008 temporal stratum 5. Reporting group-specific harvest estimates including adjusted median, 90% credibility interval, the probability that reporting group estimate is equal to zero ($P = 0$), mean, and SD.

Stratum 5 (7/16–8/15; Harvest = 13,701; n = 498)						
Reporting Group	Median ^a	90% CI		$P = 0$	Mean	SD
		5%	95%			
Asia	0	0	14	0.90	2	11
Kotzebue Sound	0	0	2	0.94	2	17
CWAK	13,701	11,573	16,055	0.00	13,695	1,369
Upper Yukon	0	0	0	0.96	1	6
Northern Dist.	0	0	0	0.96	0	4
Northwestern Dist.	0	0	0	0.96	0	3
South Peninsula	0	0	0	0.96	0	4
Chignik/Kodiak	0	0	0	0.96	0	4
East of Kodiak	0	0	0	0.97	0	3
Total	13,701				13,700	

Note: Harvest is the number of chum salmon reported to have been harvested and n is the final number of samples used in genetic analyses.

^a Adjusted median; 1.01 times unadjusted median.

Appendix C134.–Nushagak District, Commercial, Bristol Bay Area, Central Region 2009 temporal stratum 1. Reporting group-specific harvest estimates including adjusted median, 90% credibility interval, the probability that reporting group estimate is equal to zero ($P = 0$), mean, and SD.

Stratum 1 (6/7–6/27; Harvest = 211,577; n = 625)						
Reporting Group	Median ^a	90% CI		$P = 0$	Mean	SD
		5%	95%			
Asia	0	0	1	0.94	4	37
Kotzebue Sound	0	0	3	0.93	10	100
CWAK	211,577	178,612	248,181	0.00	211,564	21,188
Upper Yukon	0	0	2	0.94	5	54
Northern Dist.	0	0	1	0.94	4	38
Northwestern Dist.	0	0	1	0.94	4	40
South Peninsula	0	0	1	0.94	3	34
Chignik/Kodiak	0	0	1	0.94	4	36
East of Kodiak	0	0	1	0.94	4	36
Total	211,577				211,602	

Note: Harvest is the number of chum salmon reported to have been harvested and n is the final number of samples used in genetic analyses.

^a Adjusted median; 1.00 times unadjusted median.

Appendix C135.–Nushagak District, Commercial, Bristol Bay Area, Central Region 2009 temporal stratum 2. Reporting group-specific harvest estimates including adjusted median, 90% credibility interval, the probability that reporting group estimate is equal to zero ($P = 0$), mean, and SD.

Stratum 2 (6/28–7/2; Harvest = 252,478; n = 615)						
Reporting Group	Median ^a	90% CI		$P = 0$	Mean	SD
		5%	95%			
Asia	0	0	2	0.94	5	53
Kotzebue Sound	0	0	37	0.91	54	387
CWAK	252,478	213,316	295,999	0.00	252,484	25,255
Upper Yukon	0	0	3	0.93	8	76
Northern Dist.	0	0	4	0.93	9	76
Northwestern Dist.	0	0	5	0.93	9	75
South Peninsula	0	0	2	0.94	5	50
Chignik/Kodiak	0	0	2	0.94	5	50
East of Kodiak	0	0	2	0.94	4	42
Total	252,478				252,583	

Note: Harvest is the number of chum salmon reported to have been harvested and n is the final number of samples used in genetic analyses.

^a Adjusted median; 1.01 times unadjusted median.

Appendix C136.–Nushagak District, Commercial, Bristol Bay Area, Central Region 2009 temporal stratum 3. Reporting group-specific harvest estimates including adjusted median, 90% credibility interval, the probability that reporting group estimate is equal to zero ($P = 0$), mean, and SD.

Stratum 3 (7/3–7/4; Harvest = 69,026; n = 627)						
Reporting Group	Median ^a	90% CI		$P = 0$	Mean	SD
		5%	95%			
Asia	0	0	0	0.95	1	12
Kotzebue Sound	0	0	383	0.88	54	235
CWAK	69,026	58,265	80,830	0.00	68,990	6,894
Upper Yukon	0	0	3	0.93	6	45
Northern Dist.	0	0	0	0.95	1	12
Northwestern Dist.	0	0	0	0.95	1	12
South Peninsula	0	0	0	0.95	1	10
Chignik/Kodiak	0	0	0	0.95	1	11
East of Kodiak	0	0	0	0.95	1	12
Total	69,026				69,056	

Note: Harvest is the number of chum salmon reported to have been harvested and n is the final number of samples used in genetic analyses.

^a Adjusted median; 1.01 times unadjusted median.

Appendix C137.–Nushagak District, Commercial, Bristol Bay Area, Central Region 2009 temporal stratum 4. Reporting group-specific harvest estimates including adjusted median, 90% credibility interval, the probability that reporting group estimate is equal to zero ($P = 0$), mean, and SD.

Stratum 4 (7/5–7/9; Harvest = 125,675; n = 627)						
Reporting Group	Median ^a	90% CI		$P = 0$	Mean	SD
		5%	95%			
Asia	0	0	1	0.95	2	23
Kotzebue Sound	0	0	2	0.94	5	47
CWAK	125,675	105,978	147,204	0.00	125,636	12,575
Upper Yukon	0	0	7	0.92	10	72
Northern Dist.	0	0	1	0.94	3	30
Northwestern Dist.	0	0	1	0.95	2	22
South Peninsula	0	0	1	0.95	2	21
Chignik/Kodiak	0	0	1	0.95	2	21
East of Kodiak	0	0	1	0.95	2	21
Total	125,675				125,664	

Note: Harvest is the number of chum salmon reported to have been harvested and n is the final number of samples used in genetic analyses.

^a Adjusted median; 1.01 times unadjusted median.

Appendix C138.—Nushagak District, Commercial, Bristol Bay Area, Central Region 2009 temporal stratum 5. Reporting group-specific harvest estimates including adjusted median, 90% credibility interval, the probability that reporting group estimate is equal to zero ($P = 0$), mean, and SD.

Stratum 5 (7/10–8/18; Harvest = 86,327; n = 639)						
Reporting Group	Median ^a	90% CI		$P = 0$	Mean	SD
		5%	95%			
Asia	0	0	0	0.95	1	14
Kotzebue Sound	0	0	2	0.94	5	44
CWAK	86,327	72,783	101,157	0.00	86,262	8,651
Upper Yukon	0	0	1	0.95	2	22
Northern Dist.	0	0	1	0.95	2	20
Northwestern Dist.	0	0	0	0.95	1	14
South Peninsula	0	0	1	0.95	2	15
Chignik/Kodiak	0	0	0	0.95	1	15
East of Kodiak	0	0	0	0.95	1	14
Total	86,327				86,277	

Note: Harvest is the number of chum salmon reported to have been harvested and n is the final number of samples used in genetic analyses.

^a Adjusted median; 1.01 times unadjusted median.

Appendix C139.—Togiak District, Commercial, Bristol Bay Area, Central Region 2007 temporal stratum 1. Reporting group-specific harvest estimates including adjusted median, 90% credibility interval, the probability that reporting group estimate is equal to zero ($P = 0$), mean, and SD.

Reporting Group	Stratum 1 (6/18–6/28; Harvest = 10,514; n = 391)					
	Median ^a	90% CI		$P = 0$	Mean	SD
		5%	95%			
Asia	0	0	0	0.96	0	3
Kotzebue Sound	0	0	0	0.96	1	6
CWAK	10,514	8,879	12,332	0.00	10,512	1,051
Upper Yukon	0	0	0	0.96	0	4
Northern Dist.	0	0	0	0.96	0	4
Northwestern Dist.	0	0	0	0.97	0	3
South Peninsula	0	0	0	0.97	0	3
Chignik/Kodiak	0	0	0	0.97	0	3
East of Kodiak	0	0	0	0.97	0	3
Total	10,514				10,513	

Note: Harvest is the number of chum salmon reported to have been harvested and n is the final number of samples used in genetic analyses.

^a Adjusted median; 1.01 times unadjusted median.

Appendix C140.—Togiak District, Commercial, Bristol Bay Area, Central Region 2007 temporal stratum 2. Reporting group-specific harvest estimates including adjusted median, 90% credibility interval, the probability that reporting group estimate is equal to zero ($P = 0$), mean, and SD.

Reporting Group	Stratum 2 (7/2–7/9; Harvest = 66,310; n = 302)					
	Median ^a	90% CI		$P = 0$	Mean	SD
		5%	95%			
Asia	0	0	1	0.94	3	30
Kotzebue Sound	0	0	5	0.93	10	86
CWAK	66,178	55,766	77,464	0.00	66,056	6,610
Upper Yukon	0	0	1	0.94	3	31
Northern Dist.	0	0	5	0.93	8	61
Northwestern Dist.	0	0	1	0.94	3	29
South Peninsula	0	0	1	0.94	4	34
Chignik/Kodiak	0	0	1	0.94	3	31
East of Kodiak	132	0	633	0.09	200	218
Total	66,310				66,290	

Note: Harvest is the number of chum salmon reported to have been harvested and n is the final number of samples used in genetic analyses.

^a Adjusted median; 1.01 times unadjusted median.

Appendix C141.—Togiak District, Commercial, Bristol Bay Area, Central Region 2007 temporal stratum 3. Reporting group-specific harvest estimates including adjusted median, 90% credibility interval, the probability that reporting group estimate is equal to zero ($P = 0$), mean, and SD.

Stratum 3 (7/10–7/15; Harvest = 36,473; n = 384)						
Reporting Group	Median ^a	90% CI		$P = 0$	Mean	SD
		5%	95%			
Asia	0	0	0	0.95	1	11
Kotzebue Sound	0	0	1	0.95	2	25
CWAK	36,473	30,774	42,790	0.00	36,469	3,655
Upper Yukon	0	0	0	0.95	1	13
Northern Dist.	0	0	0	0.95	1	15
Northwestern Dist.	0	0	0	0.95	1	10
South Peninsula	0	0	0	0.95	1	11
Chignik/Kodiak	0	0	0	0.95	1	10
East of Kodiak	0	0	0	0.95	1	9
Total	36,473				36,478	

Note: Harvest is the number of chum salmon reported to have been harvested and n is the final number of samples used in genetic analyses.

^a Adjusted median; 1.01 times unadjusted median.

Appendix C142.–Togiak District, Commercial, Bristol Bay Area, Central Region 2007 temporal stratum 4. Reporting group-specific harvest estimates including adjusted median, 90% credibility interval, the probability that reporting group estimate is equal to zero ($P = 0$), mean, and SD.

Reporting Group	Stratum 4 (7/16–7/20; Harvest = 33,326; n = 394)					
	Median ^a	90% CI		$P = 0$	Mean	SD
		5%	95%			
Asia	0	0	0	0.96	1	9
Kotzebue Sound	0	0	1	0.95	3	24
CWAK	33,268	28,066	38,959	0.00	33,220	3,327
Upper Yukon	0	0	0	0.96	1	9
Northern Dist.	0	0	3	0.93	7	52
Northwestern Dist.	0	0	0	0.95	1	10
South Peninsula	0	0	1	0.95	2	15
Chignik/Kodiak	0	0	3	0.93	4	27
East of Kodiak	58	3	255	0.02	84	86
Total	33,326				33,323	

Note: Harvest is the number of chum salmon reported to have been harvested and n is the final number of samples used in genetic analyses.

^a Adjusted median; 1.01 times unadjusted median.

Appendix C143.–Togiak District, Commercial, Bristol Bay Area, Central Region 2007 temporal stratum 5. Reporting group-specific harvest estimates including adjusted median, 90% credibility interval, the probability that reporting group estimate is equal to zero ($P = 0$), mean, and SD.

Stratum 5 (7/21–8/4; Harvest = 55,863; n = 384)						
Reporting Group	Median ^a	90% CI		$P = 0$	Mean	SD
		5%	95%			
Asia	0	0	1	0.95	2	16
Kotzebue Sound	0	0	1	0.94	3	27
CWAK	55,863	47,155	65,376	0.00	55,799	5,573
Upper Yukon	0	0	0	0.95	1	15
Northern Dist.	0	0	3	0.93	5	45
Northwestern Dist.	0	0	1	0.95	2	18
South Peninsula	0	0	1	0.95	2	17
Chignik/Kodiak	0	0	1	0.95	2	18
East of Kodiak	0	0	0	0.95	1	15
Total	55,863				55,817	

Note: Harvest is the number of chum salmon reported to have been harvested and n is the final number of samples used in genetic analyses.

^a Adjusted median; 1.01 times unadjusted median.

Appendix C144.–Togiak District, Commercial, Bristol Bay Area, Central Region 2008 temporal stratum 1. Reporting group-specific harvest estimates including adjusted median, 90% credibility interval, the probability that reporting group estimate is equal to zero ($P = 0$), mean, and SD.

Reporting Group	Stratum 1 (6/18–6/27; Harvest = 6,067; n = 397)					
	Median ^a	90% CI		$P = 0$	Mean	SD
		5%	95%			
Asia	0	0	0	0.97	0	2
Kotzebue Sound	0	0	0	0.96	0	3
CWAK	6,067	5,126	7,111	0.00	6,066	606
Upper Yukon	0	0	0	0.96	0	4
Northern Dist.	0	0	0	0.97	0	2
Northwestern Dist.	0	0	0	0.97	0	2
South Peninsula	0	0	0	0.97	0	2
Chignik/Kodiak	0	0	0	0.97	0	2
East of Kodiak	0	0	0	0.97	0	2
Total	6,067				6,066	

Note: Harvest is the number of chum salmon reported to have been harvested and n is the final number of samples used in genetic analyses.

^a Adjusted median; 1.01 times unadjusted median.

Appendix C145.–Togiak District, Commercial, Bristol Bay Area, Central Region 2008 temporal stratum 2. Reporting group-specific harvest estimates including adjusted median, 90% credibility interval, the probability that reporting group estimate is equal to zero ($P = 0$), mean, and SD.

Stratum 2 (6/30–7/4; Harvest = 47,097; n = 397)						
Reporting Group	Median ^a	90% CI		$P = 0$	Mean	SD
		5%	95%			
Asia	0	0	0	0.95	1	13
Kotzebue Sound	0	0	2	0.94	5	44
CWAK	47,097	39,745	55,259	0.00	47,088	4,721
Upper Yukon	0	0	1	0.95	2	16
Northern Dist.	0	0	1	0.95	2	20
Northwestern Dist.	0	0	1	0.95	2	21
South Peninsula	0	0	0	0.95	1	13
Chignik/Kodiak	0	0	0	0.95	1	12
East of Kodiak	0	0	0	0.95	1	11
Total	47,097				47,103	

Note: Harvest is the number of chum salmon reported to have been harvested and n is the final number of samples used in genetic analyses.

^a Adjusted median; 1.01 times unadjusted median.

Appendix C146.—Togiak District, Commercial, Bristol Bay Area, Central Region 2008 temporal stratum 3. Reporting group-specific harvest estimates including adjusted median, 90% credibility interval, the probability that reporting group estimate is equal to zero ($P = 0$), mean, and SD.

Stratum 3 (7/5–7/11; Harvest = 73,635; n = 399)						
Reporting Group	Median ^a	90% CI		$P = 0$	Mean	SD
		5%	95%			
Asia	0	0	1	0.95	2	19
Kotzebue Sound	0	0	2	0.94	5	51
CWAK	73,635	62,099	86,240	0.00	73,588	7,374
Upper Yukon	0	0	1	0.94	2	23
Northern Dist.	0	0	2	0.94	5	45
Northwestern Dist.	0	0	1	0.95	2	20
South Peninsula	0	0	1	0.95	2	19
Chignik/Kodiak	0	0	1	0.95	2	19
East of Kodiak	0	0	1	0.95	2	18
Total	73,635				73,610	

Note: Harvest is the number of chum salmon reported to have been harvested and n is the final number of samples used in genetic analyses.

^a Adjusted median; 1.01 times unadjusted median.

Appendix C147.—Togiak District, Commercial, Bristol Bay Area, Central Region 2008 temporal stratum 4. Reporting group-specific harvest estimates including adjusted median, 90% credibility interval, the probability that reporting group estimate is equal to zero ($P = 0$), mean, and SD.

Reporting Group	Stratum 4 (7/12–7/16; Harvest = 57,148; n = 386)					
	Median ^a	90% CI		$P = 0$	Mean	SD
		5%	95%			
Asia	0	0	1	0.95	2	24
Kotzebue Sound	0	0	1	0.94	4	42
CWAK	57,148	48,217	66,910	0.00	57,099	5,703
Upper Yukon	0	0	1	0.95	2	18
Northern Dist.	0	0	1	0.95	2	20
Northwestern Dist.	0	0	1	0.95	2	17
South Peninsula	0	0	1	0.95	2	16
Chignik/Kodiak	0	0	1	0.95	1	15
East of Kodiak	0	0	0	0.95	1	13
Total	57,148				57,115	

Note: Harvest is the number of chum salmon reported to have been harvested and n is the final number of samples used in genetic analyses.

^a Adjusted median; 1.01 times unadjusted median.

Appendix C148.–Togiak District, Commercial, Bristol Bay Area, Central Region 2008 temporal stratum 5. Reporting group-specific harvest estimates including adjusted median, 90% credibility interval, the probability that reporting group estimate is equal to zero ($P = 0$), mean, and SD.

Stratum 5 (7/17–8/6; Harvest = 118,020; n = 394)						
Reporting Group	Median ^a	90% CI		$P = 0$	Mean	SD
		5%	95%			
Asia	0	0	1	0.94	3	31
Kotzebue Sound	0	0	3	0.93	7	64
CWAK	118,020	99,588	138,371	0.00	117,991	11,784
Upper Yukon	0	0	1	0.94	4	46
Northern Dist.	0	0	7	0.93	12	102
Northwestern Dist.	0	0	1	0.94	3	33
South Peninsula	0	0	1	0.94	3	31
Chignik/Kodiak	0	0	1	0.94	3	30
East of Kodiak	0	0	1	0.94	3	31
Total	118,020				118,029	

Note: Harvest is the number of chum salmon reported to have been harvested and n is the final number of samples used in genetic analyses.

^a Adjusted median; 1.01 times unadjusted median.

Appendix C149.–Togiak District, Commercial, Bristol Bay Area, Central Region 2009 temporal stratum 1. Reporting group-specific harvest estimates including adjusted median, 90% credibility interval, the probability that reporting group estimate is equal to zero ($P = 0$), mean, and SD.

Reporting Group	Stratum 1 (6/22–6/30; Harvest = 8,584; n = 395)					
	Median ^a	90% CI		$P = 0$	Mean	SD
		5%	95%			
Asia	0	0	0	0.97	0	3
Kotzebue Sound	0	0	1	0.95	1	10
CWAK	8,584	7,246	10,051	0.00	8,577	855
Upper Yukon	0	0	0	0.97	0	3
Northern Dist.	0	0	0	0.96	0	4
Northwestern Dist.	0	0	0	0.97	0	2
South Peninsula	0	0	0	0.97	0	2
Chignik/Kodiak	0	0	0	0.97	0	2
East of Kodiak	0	0	0	0.97	0	2
Total	8,584				8,578	

Note: Harvest is the number of chum salmon reported to have been harvested and n is the final number of samples used in genetic analyses.

^a Adjusted median; 1.01 times unadjusted median.

Appendix C150.—Togiak District, Commercial, Bristol Bay Area, Central Region 2009 temporal stratum 2. Reporting group-specific harvest estimates including adjusted median, 90% credibility interval, the probability that reporting group estimate is equal to zero ($P = 0$), mean, and SD.

Reporting Group	Stratum 2 (7/1–7/2; Harvest = 10,078; n = 394)					
	Median ^a	90% CI		$P = 0$	Mean	SD
		5%	95%			
Asia	0	0	0	0.96	0	3
Kotzebue Sound	0	0	1	0.95	1	9
CWAK	10,061	8,491	11,780	0.00	10,048	1,002
Upper Yukon	0	0	0	0.97	0	3
Northern Dist.	0	0	0	0.96	1	6
Northwestern Dist.	0	0	0	0.96	0	3
South Peninsula	0	0	0	0.96	1	5
Chignik/Kodiak	0	0	0	0.96	1	5
East of Kodiak	17	1	77	0.04	25	26
Total	10,078				10,077	

Note: Harvest is the number of chum salmon reported to have been harvested and n is the final number of samples used in genetic analyses.

^a Adjusted median; 1.01 times unadjusted median.

Appendix C151.—Togiak District, Commercial, Bristol Bay Area, Central Region 2009 temporal stratum 3. Reporting group-specific harvest estimates including adjusted median, 90% credibility interval, the probability that reporting group estimate is equal to zero ($P = 0$), mean, and SD.

Stratum 3 (7/3–7/7; Harvest = 17,019; n = 243)						
Reporting Group	Median ^a	90% CI		$P = 0$	Mean	SD
		5%	95%			
Asia	0	0	0	0.96	1	8
Kotzebue Sound	0	0	0	0.95	1	11
CWAK	17,019	14,371	19,962	0.00	17,012	1,705
Upper Yukon	0	0	1	0.95	1	13
Northern Dist.	0	0	1	0.94	3	25
Northwestern Dist.	0	0	0	0.96	1	7
South Peninsula	0	0	0	0.96	1	7
Chignik/Kodiak	0	0	0	0.96	1	8
East of Kodiak	0	0	0	0.96	1	7
Total	17,019				17,022	

Note: Harvest is the number of chum salmon reported to have been harvested and n is the final number of samples used in genetic analyses.

^a Adjusted median; 1.01 times unadjusted median.

Appendix C152.–Togiak District, Commercial, Bristol Bay Area, Central Region 2009 temporal stratum 4. Reporting group-specific harvest estimates including adjusted median, 90% credibility interval, the probability that reporting group estimate is equal to zero ($P = 0$), mean, and SD.

Stratum 4 (7/8–7/11; Harvest = 24,694; n = 376)						
Reporting Group	Median ^a	90% CI		$P = 0$	Mean	SD
		5%	95%			
Asia	0	0	0	0.96	1	7
Kotzebue Sound	0	0	1	0.94	2	23
CWAK	24,694	20,872	28,973	0.00	24,686	2,466
Upper Yukon	0	0	0	0.96	1	9
Northern Dist.	0	0	0	0.95	1	13
Northwestern Dist.	0	0	0	0.96	1	7
South Peninsula	0	0	0	0.96	1	7
Chignik/Kodiak	0	0	0	0.96	1	7
East of Kodiak	0	0	0	0.96	1	7
Total	24,694				24,695	

Note: Harvest is the number of chum salmon reported to have been harvested and n is the final number of samples used in genetic analyses.

^a Adjusted median; 1.01 times unadjusted median.

Appendix C153.—Togiak District, Commercial, Bristol Bay Area, Central Region 2009 temporal stratum 5. Reporting group-specific harvest estimates including adjusted median, 90% credibility interval, the probability that reporting group estimate is equal to zero ($P = 0$), mean, and SD.

Reporting Group	Stratum 5 (7/13–8/27; Harvest = 80,996; n = 386)					
	Median ^a	90% CI		$P = 0$	Mean	SD
		5%	95%			
Asia	0	0	1	0.95	2	22
Kotzebue Sound	0	0	2	0.94	5	50
CWAK	80,996	68,417	94,945	0.00	80,976	8,082
Upper Yukon	0	0	1	0.95	2	23
Northern Dist.	0	0	2	0.94	6	61
Northwestern Dist.	0	0	1	0.95	2	23
South Peninsula	0	0	1	0.95	2	25
Chignik/Kodiak	0	0	1	0.95	2	22
East of Kodiak	0	0	1	0.95	2	22
Total	80,996				80,999	

Note: Harvest is the number of chum salmon reported to have been harvested and n is the final number of samples used in genetic analyses.

^a Adjusted median; 1.01 times unadjusted median.

Appendix C154.–District 5, Commercial, Kuskokwim Area, Arctic-Yukon-Kuskokwim Region 2007 temporal stratum 1. Reporting group-specific harvest estimates including adjusted median, 90% credibility interval, the probability that reporting group estimate is equal to zero ($P = 0$), mean, and SD.

Reporting Group	Stratum 1 (6/19–7/4; Harvest = 3,092; n = 250)					
	Median ^a	90% CI		$P = 0$	Mean	SD
		5%	95%			
Asia	0	0	0	0.97	0	2
Kotzebue Sound	0	0	0	0.96	0	5
CWAK	3,092	2,836	3,346	0.00	3,085	155
Upper Yukon	0	0	3	0.93	1	7
Northern Dist.	0	0	23	0.75	4	10
Northwestern Dist.	0	0	0	0.97	0	2
South Peninsula	0	0	0	0.96	0	2
Chignik/Kodiak	0	0	7	0.90	1	5
East of Kodiak	0	0	0	0.97	0	1
Total	3,092				3,091	

Note: Harvest is the number of chum salmon reported to have been harvested and n is the final number of samples used in genetic analyses.

^a Adjusted median; 1.00 times unadjusted median.

Appendix C155.—District 5, Commercial, Kuskokwim Area, Arctic-Yukon-Kuskokwim Region 2007 temporal stratum 2. Reporting group-specific harvest estimates including adjusted median, 90% credibility interval, the probability that reporting group estimate is equal to zero ($P = 0$), mean, and SD.

Reporting Group	Stratum 2 (7/6–7/16; Harvest = 2,213; n = 185)					
	Median ^a	90% CI		$P = 0$	Mean	SD
		5%	95%			
Asia	0	0	0	0.97	0	2
Kotzebue Sound	0	0	23	0.89	3	14
CWAK	2,213	2,030	2,394	0.00	2,208	111
Upper Yukon	0	0	0	0.97	0	2
Northern Dist.	0	0	0	0.97	0	2
Northwestern Dist.	0	0	0	0.97	0	1
South Peninsula	0	0	0	0.97	0	1
Chignik/Kodiak	0	0	0	0.97	0	1
East of Kodiak	0	0	0	0.97	0	1
Total	2,213				2,211	

Note: Harvest is the number of chum salmon reported to have been harvested and n is the final number of samples used in genetic analyses.

^a Adjusted median; 1.00 times unadjusted median.

Appendix C156.—District 5, Commercial, Kuskokwim Area, Arctic-Yukon-Kuskokwim Region 2007 temporal stratum 3. Reporting group-specific harvest estimates including adjusted median, 90% credibility interval, the probability that reporting group estimate is equal to zero ($P = 0$), mean, and SD.

Stratum 3 (7/18–8/31; Harvest = 2,546; n = 317)						
Reporting Group	Median ^a	90% CI		$P = 0$	Mean	SD
		5%	95%			
Asia	0	0	0	0.98	0	1
Kotzebue Sound	0	0	0	0.96	0	3
CWAK	2,543	2,334	2,752	0.00	2,537	127
Upper Yukon	0	0	0	0.96	0	2
Northern Dist.	0	0	0	0.97	0	2
Northwestern Dist.	0	0	0	0.98	0	1
South Peninsula	0	0	8	0.86	1	4
Chignik/Kodiak	0	0	9	0.86	1	4
East of Kodiak	3	0	21	0.34	6	8
Total	2,546				2,545	

Note: Harvest is the number of chum salmon reported to have been harvested and n is the final number of samples used in genetic analyses.

^a Adjusted median; 1.00 times unadjusted median.

Appendix C157.—District 5, Commercial, Kuskokwim Area, Arctic-Yukon-Kuskokwim Region 2008 temporal stratum 1. Reporting group-specific harvest estimates including adjusted median, 90% credibility interval, the probability that reporting group estimate is equal to zero ($P = 0$), mean, and SD.

Reporting Group	Stratum 1 (6/19–7/1; Harvest = 5,214; n = 0 ^a)					
	Median ^b	90% CI		$P = 0$	Mean	SD
		5%	95%			
Asia	0	0	1	0.95	0	2
Kotzebue Sound	0	0	2	0.92	1	5
CWAK	5,214	4,789	5,646	0.00	5,207	261
Upper Yukon	0	0	4	0.91	1	6
Northern Dist.	0	0	18	0.73	3	7
Northwestern Dist.	0	0	1	0.95	0	2
South Peninsula	0	0	1	0.94	0	2
Chignik/Kodiak	0	0	6	0.88	1	4
East of Kodiak	0	0	0	0.95	0	1
Total	5,214				5,213	

Note: Harvest is the number of chum salmon reported to have been harvested and n is the final number of samples used in genetic analyses.

^a No samples collected. Average stock composition estimate from temporal stratum 1, 2007 and 2009, District 5 Commercial, Kuskokwim Area used as proxy.

^b Adjusted median; 1.00 times unadjusted median.

Appendix C158.—District 5, Commercial, Kuskokwim Area, Arctic-Yukon-Kuskokwim Region 2008 temporal stratum 2. Reporting group-specific harvest estimates including adjusted median, 90% credibility interval, the probability that reporting group estimate is equal to zero ($P = 0$), mean, and SD.

Reporting Group	Stratum 2 (7/5–7/16; Harvest = 2,331; n = 0 ^a)					
	Median ^b	90% CI		$P = 0$	Mean	SD
		5%	95%			
Asia	0	0	0	0.96	0	1
Kotzebue Sound	0	0	5	0.88	1	3
CWAK	2,331	2,142	2,527	0.00	2,329	117
Upper Yukon	0	0	4	0.90	1	4
Northern Dist.	0	0	0	0.96	0	1
Northwestern Dist.	0	0	0	0.97	0	1
South Peninsula	0	0	0	0.97	0	1
Chignik/Kodiak	0	0	0	0.97	0	1
East of Kodiak	0	0	0	0.97	0	1
Total	2,331				2,331	

Note: Harvest is the number of chum salmon reported to have been harvested and n is the final number of samples used in genetic analyses.

^a No samples collected. Average stock composition estimate from temporal stratum 2, 2007 and 2009, District 5 Commercial, Kuskokwim Area used as proxy.

^b Adjusted median; 1.00 times unadjusted median.

Appendix C159.—District 5, Commercial, Kuskokwim Area, Arctic-Yukon-Kuskokwim Region 2008 temporal stratum 3. Reporting group-specific harvest estimates including adjusted median, 90% credibility interval, the probability that reporting group estimate is equal to zero ($P = 0$), mean, and SD.

Reporting Group	Stratum 3 (7/21–8/29; Harvest = 2,863; n = 0 ^a)					
	Median ^b	90% CI		$P = 0$	Mean	SD
		5%	95%			
Asia	0	0	0	0.98	0	1
Kotzebue Sound	0	0	0	0.96	0	4
CWAK	2,860	2,625	3,094	0.00	2,853	143
Upper Yukon	0	0	0	0.96	0	3
Northern Dist.	0	0	0	0.97	0	2
Northwestern Dist.	0	0	0	0.97	0	1
South Peninsula	0	0	9	0.85	1	5
Chignik/Kodiak	0	0	10	0.86	1	5
East of Kodiak	3	0	24	0.34	6	9
Total	2,863				2,861	

Note: Harvest is the number of chum salmon reported to have been harvested and n is the final number of samples used in genetic analyses.

^a No samples collected. Stock composition estimate from temporal stratum 1, 2007, District 5 Commercial, Kuskokwim Area used as proxy.

^b Adjusted median; 1.00 times unadjusted median.

Appendix C160.–District 5, Commercial, Kuskokwim Area, Arctic-Yukon-Kuskokwim Region 2009 temporal stratum 1. Reporting group-specific harvest estimates including adjusted median, 90% credibility interval, the probability that reporting group estimate is equal to zero ($P = 0$), mean, and SD.

Reporting Group	Stratum 1 (6/22–6/30; Harvest = 4,028; n = 398)					
	Median ^a	90% CI		$P = 0$	Mean	SD
		5%	95%			
Asia	0	0	0	0.98	0	1
Kotzebue Sound	0	0	0	0.96	1	5
CWAK	4,028	3,703	4,365	0.00	4,026	201
Upper Yukon	0	0	0	0.97	0	2
Northern Dist.	0	0	0	0.97	0	2
Northwestern Dist.	0	0	0	0.97	0	1
South Peninsula	0	0	0	0.98	0	1
Chignik/Kodiak	0	0	0	0.97	0	1
East of Kodiak	0	0	0	0.98	0	1
Total	4,028				4,027	

Note: Harvest is the number of chum salmon reported to have been harvested and n is the final number of samples used in genetic analyses.

^a Adjusted median; 1.00 times unadjusted median.

Appendix C161.—District 5, Commercial, Kuskokwim Area, Arctic-Yukon-Kuskokwim Region 2009 temporal stratum 2. Reporting group-specific harvest estimates including adjusted median, 90% credibility interval, the probability that reporting group estimate is equal to zero ($P = 0$), mean, and SD.

Stratum 2 (7/6–7/17; Harvest = 10,696; n = 398)						
Reporting Group	Median ^a	90% CI		$P = 0$	Mean	SD
		5%	95%			
Asia	0	0	0	0.96	0	4
Kotzebue Sound	0	0	0	0.96	1	8
CWAK	10,696	9,835	11,599	0.00	10,691	537
Upper Yukon	0	0	19	0.90	4	20
Northern Dist.	0	0	0	0.96	0	5
Northwestern Dist.	0	0	0	0.96	0	3
South Peninsula	0	0	0	0.96	0	4
Chignik/Kodiak	0	0	0	0.97	0	3
East of Kodiak	0	0	0	0.97	0	3
Total	10,696				10,696	

Note: Harvest is the number of chum salmon reported to have been harvested and n is the final number of samples used in genetic analyses.

^a Adjusted median; 1.00 times unadjusted median.

Appendix C162.–District 5, Commercial, Kuskokwim Area, Arctic-Yukon-Kuskokwim Region 2009 temporal stratum 3. Reporting group-specific harvest estimates including adjusted median, 90% credibility interval, the probability that reporting group estimate is equal to zero ($P = 0$), mean, and SD.

Reporting Group	Stratum 3 (7/20–8/24; Harvest = 2,261; n = 0 ^a)					
	Median ^b	90% CI		$P = 0$	Mean	SD
		5%	95%			
Asia	0	0	0	0.98	0	1
Kotzebue Sound	0	0	0	0.96	0	3
CWAK	2,259	2,073	2,445	0.00	2,253	113
Upper Yukon	0	0	0	0.96	0	2
Northern Dist.	0	0	0	0.97	0	1
Northwestern Dist.	0	0	0	0.98	0	1
South Peninsula	0	0	7	0.86	1	4
Chignik/Kodiak	0	0	8	0.86	1	4
East of Kodiak	2	0	19	0.35	5	7
Total	2,261				2,260	

Note: Harvest is the number of chum salmon reported to have been harvested and n is the final number of samples used in genetic analyses.

^a Only 91 samples collected; therefore, stock composition not estimated with these samples. Stock composition estimate from temporal stratum 3, 2007, District 5 Commercial, Kuskokwim Area used as proxy.

^b Adjusted median; 1.00 times unadjusted median.

Appendix C163.–District 4, Commercial, Kuskokwim Area, Arctic-Yukon-Kuskokwim Region 2007 temporal stratum 1. Reporting group-specific harvest estimates including adjusted median, 90% credibility interval, the probability that reporting group estimate is equal to zero ($P = 0$), mean, and SD.

Stratum 1 (6/14–6/28; Harvest = 9,501; n = 394)						
Reporting Group	Median ^a	90% CI		$P = 0$	Mean	SD
		5%	95%			
Asia	0	0	0	0.97	0	2
Kotzebue Sound	0	0	0	0.96	1	6
CWAK	9,501	8,737	10,302	0.00	9,499	476
Upper Yukon	0	0	0	0.96	0	4
Northern Dist.	0	0	0	0.95	1	7
Northwestern Dist.	0	0	0	0.97	0	3
South Peninsula	0	0	0	0.97	0	3
Chignik/Kodiak	0	0	0	0.97	0	2
East of Kodiak	0	0	0	0.97	0	2
Total	9,501				9,501	

Note: Harvest is the number of chum salmon reported to have been harvested and n is the final number of samples used in genetic analyses.

^a Adjusted median; 1.00 times unadjusted median.

Appendix C164.–District 4, Commercial, Kuskokwim Area, Arctic-Yukon-Kuskokwim Region 2007 temporal stratum 2. Reporting group-specific harvest estimates including adjusted median, 90% credibility interval, the probability that reporting group estimate is equal to zero ($P = 0$), mean, and SD.

Stratum 2 (7/2–7/16; Harvest = 18,338; n = 400)						
Reporting Group	Median ^a	90% CI		$P = 0$	Mean	SD
		5%	95%			
Asia	0	0	0	0.96	1	6
Kotzebue Sound	0	0	117	0.88	17	72
CWAK	18,338	16,846	19,859	0.00	18,313	918
Upper Yukon	0	0	0	0.95	1	9
Northern Dist.	0	0	0	0.95	1	10
Northwestern Dist.	0	0	0	0.95	1	8
South Peninsula	0	0	0	0.96	0	5
Chignik/Kodiak	0	0	0	0.96	1	6
East of Kodiak	0	0	0	0.96	0	5
Total	18,338				18,335	

Note: Harvest is the number of chum salmon reported to have been harvested and n is the final number of samples used in genetic analyses.

^a Adjusted median; 1.00 times unadjusted median.

Appendix C165.—District 4, Commercial, Kuskokwim Area, Arctic-Yukon-Kuskokwim Region 2007 temporal stratum 3. Reporting group-specific harvest estimates including adjusted median, 90% credibility interval, the probability that reporting group estimate is equal to zero ($P = 0$), mean, and SD.

Reporting Group	Stratum 3 (7/18–8/31; Harvest = 34,393; n = 400)					
	Median ^a	90% CI		$P = 0$	Mean	SD
		5%	95%			
Asia	0	0	0	0.96	1	9
Kotzebue Sound	0	0	11	0.92	11	72
CWAK	34,393	31,610	37,272	0.00	34,373	1,720
Upper Yukon	0	0	0	0.95	1	11
Northern Dist.	0	0	4	0.93	5	39
Northwestern Dist.	0	0	0	0.95	1	9
South Peninsula	0	0	0	0.95	1	9
Chignik/Kodiak	0	0	0	0.95	1	8
East of Kodiak	0	0	0	0.96	1	8
Total	34,393				34,395	

Note: Harvest is the number of chum salmon reported to have been harvested and n is the final number of samples used in genetic analyses.

^a Adjusted median; 1.00 times unadjusted median.

Appendix C166.—District 4, Commercial, Kuskokwim Area, Arctic-Yukon-Kuskokwim Region 2008 temporal stratum 1. Reporting group-specific harvest estimates including adjusted median, 90% credibility interval, the probability that reporting group estimate is equal to zero ($P = 0$), mean, and SD.

Reporting Group	Stratum 1 (6/14–6/26; Harvest = 9,356; n = 391)					
	Median ^a	90% CI		$P = 0$	Mean	SD
		5%	95%			
Asia	0	0	0	0.97	0	3
Kotzebue Sound	0	0	7	0.92	3	18
CWAK	9,356	8,601	10,138	0.00	9,352	468
Upper Yukon	0	0	0	0.96	0	3
Northern Dist.	0	0	0	0.96	0	5
Northwestern Dist.	0	0	0	0.97	0	2
South Peninsula	0	0	0	0.97	0	2
Chignik/Kodiak	0	0	0	0.97	0	2
East of Kodiak	0	0	0	0.97	0	2
Total	9,356				9,355	

Note: Harvest is the number of chum salmon reported to have been harvested and n is the final number of samples used in genetic analyses.

^a Adjusted median; 1.00 times unadjusted median.

Appendix C167.—District 4, Commercial, Kuskokwim Area, Arctic-Yukon-Kuskokwim Region 2008 temporal stratum 2. Reporting group-specific harvest estimates including adjusted median, 90% credibility interval, the probability that reporting group estimate is equal to zero ($P = 0$), mean, and SD.

Reporting Group	Stratum 2 (7/1–7/14; Harvest = 25,144; n = 395)					
	Median ^a	90% CI		$P = 0$	Mean	SD
		5%	95%			
Asia	0	0	0	0.96	1	6
Kotzebue Sound	0	0	1	0.95	2	18
CWAK	25,144	23,108	27,258	0.00	25,135	1,261
Upper Yukon	0	0	0	0.95	1	14
Northern Dist.	0	0	0	0.95	1	15
Northwestern Dist.	0	0	0	0.96	1	7
South Peninsula	0	0	0	0.96	1	8
Chignik/Kodiak	0	0	0	0.95	1	9
East of Kodiak	0	0	0	0.96	1	6
Total	25,144				25,144	

Note: Harvest is the number of chum salmon reported to have been harvested and n is the final number of samples used in genetic analyses.

^a Adjusted median; 1.00 times unadjusted median.

Appendix C168.—District 4, Commercial, Kuskokwim Area, Arctic-Yukon-Kuskokwim Region 2008 temporal stratum 3. Reporting group-specific harvest estimates including adjusted median, 90% credibility interval, the probability that reporting group estimate is equal to zero ($P = 0$), mean, and SD.

Reporting Group	Stratum 3 (7/16–8/29; Harvest = 22,533; n = 391)					
	Median ^a	90% CI		$P = 0$	Mean	SD
		5%	95%			
Asia	0	0	0	0.96	1	8
Kotzebue Sound	0	0	1	0.94	3	26
CWAK	22,533	20,719	24,428	0.00	22,527	1,127
Upper Yukon	0	0	0	0.96	1	8
Northern Dist.	0	0	0	0.96	1	7
Northwestern Dist.	0	0	0	0.96	1	6
South Peninsula	0	0	0	0.96	1	7
Chignik/Kodiak	0	0	0	0.96	1	6
East of Kodiak	0	0	0	0.96	1	6
Total	22,533				22,537	

Note: Harvest is the number of chum salmon reported to have been harvested and n is the final number of samples used in genetic analyses.

^a Adjusted median; 1.00 times unadjusted median.

Appendix C169.—District 4, Commercial, Kuskokwim Area, Arctic-Yukon-Kuskokwim Region 2009 temporal stratum 1. Reporting group-specific harvest estimates including adjusted median, 90% credibility interval, the probability that reporting group estimate is equal to zero ($P = 0$), mean, and SD.

Reporting Group	Stratum 1 (6/15–6/30; Harvest = 13,741; n = 393)					
	Median ^a	90% CI		$P = 0$	Mean	SD
		5%	95%			
Asia	0	0	0	0.96	0	4
Kotzebue Sound	0	0	0	0.96	1	6
CWAK	13,741	12,634	14,890	0.00	13,734	687
Upper Yukon	0	0	0	0.96	1	8
Northern Dist.	0	0	3	0.93	2	13
Northwestern Dist.	0	0	0	0.96	0	4
South Peninsula	0	0	0	0.96	0	3
Chignik/Kodiak	0	0	0	0.96	0	3
East of Kodiak	0	0	0	0.96	0	3
Total	13,741				13,738	

Note: Harvest is the number of chum salmon reported to have been harvested and n is the final number of samples used in genetic analyses.

^a Adjusted median; 1.00 times unadjusted median.

Appendix C170.—District 4, Commercial, Kuskokwim Area, Arctic-Yukon-Kuskokwim Region 2009 temporal stratum 2. Reporting group-specific harvest estimates including adjusted median, 90% credibility interval, the probability that reporting group estimate is equal to zero ($P = 0$), mean, and SD.

Stratum 2 (7/6–7/15; Harvest = 41,409; n = 400)						
Reporting Group	Median ^a	90% CI		$P = 0$	Mean	SD
		5%	95%			
Asia	0	0	1	0.95	2	15
Kotzebue Sound	0	0	1	0.94	4	41
CWAK	41,409	38,059	44,888	0.00	41,392	2,078
Upper Yukon	0	0	1	0.95	2	17
Northern Dist.	0	0	2	0.94	4	39
Northwestern Dist.	0	0	0	0.95	1	11
South Peninsula	0	0	0	0.95	1	10
Chignik/Kodiak	0	0	0	0.95	1	11
East of Kodiak	0	0	0	0.95	1	11
Total	41,409				41,408	

Note: Harvest is the number of chum salmon reported to have been harvested and n is the final number of samples used in genetic analyses.

^a Adjusted median; 1.00 times unadjusted median.

Appendix C171.—District 4, Commercial, Kuskokwim Area, Arctic-Yukon-Kuskokwim Region 2009 temporal stratum 3. Reporting group-specific harvest estimates including adjusted median, 90% credibility interval, the probability that reporting group estimate is equal to zero ($P = 0$), mean, and SD.

Stratum 3 (7/16–8/24; Harvest = 36,008; n = 396)						
Reporting Group	Median ^a	90% CI		$P = 0$	Mean	SD
		5%	95%			
Asia	0	0	0	0.95	1	10
Kotzebue Sound	0	0	1	0.94	2	22
CWAK	36,008	33,118	39,027	0.00	35,996	1,801
Upper Yukon	0	0	1	0.94	3	36
Northern Dist.	0	0	0	0.95	1	11
Northwestern Dist.	0	0	0	0.95	1	9
South Peninsula	0	0	0	0.95	1	10
Chignik/Kodiak	0	0	0	0.95	1	9
East of Kodiak	0	0	0	0.96	1	9
Total	36,008				36,007	

Note: Harvest is the number of chum salmon reported to have been harvested and n is the final number of samples used in genetic analyses.

^a Adjusted median; 1.00 times unadjusted median.

Appendix C172.—District 1, Commercial, Kuskokwim Area, Arctic-Yukon-Kuskokwim Region 2007 temporal stratum 1. Reporting group-specific harvest estimates including adjusted median, 90% credibility interval, the probability that reporting group estimate is equal to zero ($P = 0$), mean, and SD.

Reporting Group	Stratum 1 (6/7–6/26; Harvest = 449; n = 388)					
	Median ^a	90% CI		$P = 0$	Mean	SD
		5%	95%			
Asia	0	0	0	0.99	0	0
Kotzebue Sound	0	0	0	0.98	0	0
CWAK	449	413	487	0.00	449	22
Upper Yukon	0	0	0	0.99	0	0
Northern Dist.	0	0	0	0.98	0	0
Northwestern Dist.	0	0	0	0.99	0	0
South Peninsula	0	0	0	0.99	0	0
Chignik/Kodiak	0	0	0	0.99	0	0
East of Kodiak	0	0	0	0.99	0	0
Total	449				449	

Note: Harvest is the number of chum salmon reported to have been harvested and n is the final number of samples used in genetic analyses.

^a Adjusted median; 1.00 times unadjusted median.

Appendix C173.–District 1, Commercial, Kuskokwim Area, Arctic-Yukon-Kuskokwim Region 2007 temporal stratum 2. Reporting group-specific harvest estimates including adjusted median, 90% credibility interval, the probability that reporting group estimate is equal to zero ($P = 0$), mean, and SD.

Stratum 2 (6/27–7/11; Harvest = 1,369; n = 397)						
Reporting Group	Median ^a	90% CI		$P = 0$	Mean	SD
		5%	95%			
Asia	0	0	0	0.98	0	0
Kotzebue Sound	0	0	0	0.98	0	1
CWAK	1,369	1,260	1,484	0.00	1,369	68
Upper Yukon	0	0	0	0.98	0	1
Northern Dist.	0	0	0	0.98	0	0
Northwestern Dist.	0	0	0	0.99	0	0
South Peninsula	0	0	0	0.99	0	0
Chignik/Kodiak	0	0	0	0.98	0	0
East of Kodiak	0	0	0	0.99	0	0
Total	1,369				1,369	

Note: Harvest is the number of chum salmon reported to have been harvested and n is the final number of samples used in genetic analyses.

^a Adjusted median; 1.00 times unadjusted median.

Appendix C174.–District 1, Commercial, Kuskokwim Area, Arctic-Yukon-Kuskokwim Region 2007 temporal stratum 3. Reporting group-specific harvest estimates including adjusted median, 90% credibility interval, the probability that reporting group estimate is equal to zero ($P = 0$), mean, and SD.

Stratum 3 (7/12–8/24; Harvest = 12,209; n = 357)						
Reporting Group	Median ^a	90% CI		$P = 0$	Mean	SD
		5%	95%			
Asia	0	0	0	0.96	0	4
Kotzebue Sound	0	0	0	0.95	1	10
CWAK	12,209	11,214	13,227	0.00	12,195	610
Upper Yukon	0	0	68	0.88	9	39
Northern Dist.	0	0	0	0.96	0	4
Northwestern Dist.	0	0	0	0.96	0	4
South Peninsula	0	0	0	0.96	0	4
Chignik/Kodiak	0	0	0	0.96	0	3
East of Kodiak	0	0	0	0.96	0	3
Total	12,209				12,205	

Note: Harvest is the number of chum salmon reported to have been harvested and n is the final number of samples used in genetic analyses.

^a Adjusted median; 1.00 times unadjusted median.

Appendix C175.—District 1, Commercial, Kuskokwim Area, Arctic-Yukon-Kuskokwim Region 2008 temporal stratum 1. Reporting group-specific harvest estimates including adjusted median, 90% credibility interval, the probability that reporting group estimate is equal to zero ($P = 0$), mean, and SD.

Reporting Group	Stratum 1 (6/20–6/24; Harvest = 19,463; n = 398)					
	Median ^a	90% CI		$P = 0$	Mean	SD
		5%	95%			
Asia	0	0	0	0.96	1	5
Kotzebue Sound	0	0	0	0.95	1	10
CWAK	19,463	17,894	21,105	0.00	19,455	974
Upper Yukon	0	0	1	0.94	2	17
Northern Dist.	0	0	0	0.95	1	10
Northwestern Dist.	0	0	0	0.96	1	6
South Peninsula	0	0	0	0.96	1	5
Chignik/Kodiak	0	0	0	0.96	1	6
East of Kodiak	0	0	0	0.96	0	5
Total	19,463				19,463	

Note: Harvest is the number of chum salmon reported to have been harvested and n is the final number of samples used in genetic analyses.

^a Adjusted median; 1.00 times unadjusted median.

Appendix C176.—District 1, Commercial, Kuskokwim Area, Arctic-Yukon-Kuskokwim Region 2008 temporal stratum 2. Reporting group-specific harvest estimates including adjusted median, 90% credibility interval, the probability that reporting group estimate is equal to zero ($P = 0$), mean, and SD.

Stratum 2 (6/27–6/27; Harvest = 7,804; n = 377)						
Reporting Group	Median ^a	90% CI		$P = 0$	Mean	SD
		5%	95%			
Asia	0	0	0	0.97	0	2
Kotzebue Sound	0	0	6	0.93	3	17
CWAK	7,804	7,176	8,456	0.00	7,798	390
Upper Yukon	0	0	0	0.96	1	6
Northern Dist.	0	0	0	0.96	0	3
Northwestern Dist.	0	0	0	0.96	0	3
South Peninsula	0	0	0	0.97	0	2
Chignik/Kodiak	0	0	0	0.97	0	3
East of Kodiak	0	0	0	0.97	0	2
Total	7,804				7,802	

Note: Harvest is the number of chum salmon reported to have been harvested and n is the final number of samples used in genetic analyses.

^a Adjusted median; 1.00 times unadjusted median.

Appendix C177.—District 1, Commercial, Kuskokwim Area, Arctic-Yukon-Kuskokwim Region 2008 temporal stratum 3. Reporting group-specific harvest estimates including adjusted median, 90% credibility interval, the probability that reporting group estimate is equal to zero ($P = 0$), mean, and SD.

Stratum 3 (7/12–8/25; Harvest = 3,249; n = 297)						
Reporting Group	Median ^a	90% CI		$P = 0$	Mean	SD
		5%	95%			
Asia	0	0	1	0.95	1	5
Kotzebue Sound	0	0	2	0.94	1	9
CWAK	3,249	2,981	3,518	0.00	3,242	164
Upper Yukon	0	0	24	0.81	3	10
Northern Dist.	0	0	0	0.96	0	3
Northwestern Dist.	0	0	0	0.97	0	1
South Peninsula	0	0	0	0.97	0	1
Chignik/Kodiak	0	0	0	0.97	0	1
East of Kodiak	0	0	0	0.97	0	1
Total	3,249				3,247	

Note: Harvest is the number of chum salmon reported to have been harvested and n is the final number of samples used in genetic analyses.

^a Adjusted median; 1.00 times unadjusted median.

Appendix C178.—District 1, Commercial, Kuskokwim Area, Arctic-Yukon-Kuskokwim Region 2009 temporal stratum 1. Reporting group-specific harvest estimates including adjusted median, 90% credibility interval, the probability that reporting group estimate is equal to zero ($P = 0$), mean, and SD.

Reporting Group	Stratum 1 (6/23–6/26; Harvest = 23,615; n = 393)					
	Median ^a	90% CI		$P = 0$	Mean	SD
		5%	95%			
Asia	0	0	0	0.96	1	6
Kotzebue Sound	0	0	0	0.95	2	16
CWAK	23,615	21,712	25,605	0.00	23,605	1,182
Upper Yukon	0	0	1	0.95	2	15
Northern Dist.	0	0	0	0.96	1	8
Northwestern Dist.	0	0	0	0.96	1	6
South Peninsula	0	0	0	0.96	1	7
Chignik/Kodiak	0	0	0	0.96	1	6
East of Kodiak	0	0	0	0.96	1	6
Total	23,615				23,615	

Note: Harvest is the number of chum salmon reported to have been harvested and n is the final number of samples used in genetic analyses.

^a Adjusted median; 1.00 times unadjusted median.

Appendix C179.—District 1, Commercial, Kuskokwim Area, Arctic-Yukon-Kuskokwim Region 2009 temporal stratum 2. Reporting group-specific harvest estimates including adjusted median, 90% credibility interval, the probability that reporting group estimate is equal to zero ($P = 0$), mean, and SD.

Stratum 2 (7/1–7/18; Harvest = 43,603; n = 395)						
Reporting Group	Median ^a	90% CI		$P = 0$	Mean	SD
		5%	95%			
Asia	0	0	0	0.95	1	12
Kotzebue Sound	0	0	1	0.94	3	28
CWAK	43,603	40,084	47,269	0.00	43,589	2,183
Upper Yukon	0	0	1	0.95	2	20
Northern Dist.	0	0	1	0.95	2	16
Northwestern Dist.	0	0	0	0.95	1	11
South Peninsula	0	0	0	0.95	1	11
Chignik/Kodiak	0	0	0	0.95	1	10
East of Kodiak	0	0	0	0.95	1	11
Total	43,603				43,601	

Note: Harvest is the number of chum salmon reported to have been harvested and n is the final number of samples used in genetic analyses.

^a Adjusted median; 1.00 times unadjusted median.

Appendix C180.—District 1, Commercial, Kuskokwim Area, Arctic-Yukon-Kuskokwim Region 2009 temporal stratum 3. Reporting group-specific harvest estimates including adjusted median, 90% credibility interval, the probability that reporting group estimate is equal to zero ($P = 0$), mean, and SD.

Stratum 3 (7/28–8/22; Harvest = 9,572; n = 396)						
Reporting Group	Median ^a	90% CI		$P = 0$	Mean	SD
		5%	95%			
Asia	0	0	0	0.97	0	3
Kotzebue Sound	0	0	0	0.96	0	5
CWAK	9,572	8,801	10,376	0.00	9,570	479
Upper Yukon	0	0	0	0.95	1	11
Northern Dist.	0	0	0	0.96	0	4
Northwestern Dist.	0	0	0	0.97	0	2
South Peninsula	0	0	0	0.97	0	3
Chignik/Kodiak	0	0	0	0.97	0	3
East of Kodiak	0	0	0	0.97	0	2
Total	9,572				9,571	

Note: Harvest is the number of chum salmon reported to have been harvested and n is the final number of samples used in genetic analyses.

^a Adjusted median; 1.00 times unadjusted median.

Appendix C181.–Mekoryuk, Subsistence, Kuskokwim Area, Arctic-Yukon-Kuskokwim Region 2007 temporal stratum 1. Reporting group-specific harvest estimates including adjusted median, 90% credibility interval, the probability that reporting group estimate is equal to zero ($P = 0$), mean, and SD.

Reporting Group	Stratum 1 (Season; Harvest = 6,028 ^a ; n = 0 ^b)					
	Median ^c	90% CI		$P = 0$	Mean	SD
		5%	95%			
Asia	0	0	0	1.00	0	0
Kotzebue Sound	0	0	0	1.00	0	0
CWAK	6,028	2,672	11,276	0.00	6,039	2,771
Upper Yukon	0	0	0	1.00	0	0
Northern Dist.	0	0	0	1.00	0	0
Northwestern Dist.	0	0	0	1.00	0	0
South Peninsula	0	0	0	1.00	0	0
Chignik/Kodiak	0	0	0	1.00	0	0
East of Kodiak	0	0	0	1.00	0	0
Total	6,028				6,039	

Note: Harvest is the number of chum salmon reported to have been harvested and n is the final number of samples used in genetic analyses.

^a No subsistence survey conducted, harvest for season estimated as average harvest between 1990 and 2011 and assumed CV of 0.46.

^b No samples collected. Assumed 100% fish harvested belong to CWAK reporting group.

^c Adjusted median; 1.10 times unadjusted median.

Appendix C182.–Mekoryuk, Subsistence, Kuskokwim Area, Arctic-Yukon-Kuskokwim Region 2008 temporal stratum 1. Reporting group-specific harvest estimates including adjusted median, 90% credibility interval, the probability that reporting group estimate is equal to zero ($P = 0$), mean, and SD.

Reporting Group	Stratum 1 (Season; Harvest = 6,028 ^a ; n = 0 ^b)					
	Median ^c	90% CI		$P = 0$	Mean	SD
		5%	95%			
Asia	0	0	0	1.00	0	0
Kotzebue Sound	0	0	0	1.00	0	0
CWAK	6,028	2,667	11,260	0.00	6,032	2,773
Upper Yukon	0	0	0	1.00	0	0
Northern Dist.	0	0	0	1.00	0	0
Northwestern Dist.	0	0	0	1.00	0	0
South Peninsula	0	0	0	1.00	0	0
Chignik/Kodiak	0	0	0	1.00	0	0
East of Kodiak	0	0	0	1.00	0	0
Total	6,028				6,032	

Note: Harvest is the number of chum salmon reported to have been harvested and n is the final number of samples used in genetic analyses.

^a No subsistence survey conducted, harvest for season estimated as average harvest between 1990 and 2011 and assumed CV of 0.46.

^b No samples collected. Assumed 100% fish harvested belong to CWAK reporting group.

^c Adjusted median; 1.10 times unadjusted median.

Appendix C183.–Mekoryuk, Subsistence, Kuskokwim Area, Arctic-Yukon-Kuskokwim Region 2009 temporal stratum 1. Reporting group-specific harvest estimates including adjusted median, 90% credibility interval, the probability that reporting group estimate is equal to zero ($P = 0$), mean, and SD.

Reporting Group	Stratum 1 (Season; Harvest = 6,028 ^a ; n = 0 ^b)					
	Median ^c	90% CI		$P = 0$	Mean	SD
		5%	95%			
Asia	0	0	0	1.00	0	0
Kotzebue Sound	0	0	0	1.00	0	0
CWAK	6,028	2,664	11,287	0.00	6,040	2,782
Upper Yukon	0	0	0	1.00	0	0
Northern Dist.	0	0	0	1.00	0	0
Northwestern Dist.	0	0	0	1.00	0	0
South Peninsula	0	0	0	1.00	0	0
Chignik/Kodiak	0	0	0	1.00	0	0
East of Kodiak	0	0	0	1.00	0	0
Total	6,028				6,040	

Note: Harvest is the number of chum salmon reported to have been harvested and n is the final number of samples used in genetic analyses.

^a No subsistence survey conducted, harvest for season estimated as average harvest between 1990 and 2011 and assumed CV of 0.46.

^b No samples collected. Assumed 100% fish harvested belong to CWAK reporting group.

^c Adjusted median; 1.10 times unadjusted median.

Appendix C184.–Toksook Bay, Subsistence, Kuskokwim Area, Arctic-Yukon-Kuskokwim Region 2007 temporal stratum 1. Reporting group-specific harvest estimates including adjusted median, 90% credibility interval, the probability that reporting group estimate is equal to zero ($P = 0$), mean, and SD.

Reporting Group	Stratum 1 (Season; Harvest = 2,042 ^a ; n = 312)					
	Median ^b	90% CI		$P = 0$	Mean	SD
		5%	95%			
Asia	0	0	0	0.98	0	1
Kotzebue Sound	0	0	0	0.97	0	3
CWAK	2,042	511	4,987	0.00	2,039	1,595
Upper Yukon	0	0	1	0.94	0	4
Northern Dist.	0	0	0	0.98	0	1
Northwestern Dist.	0	0	0	0.98	0	1
South Peninsula	0	0	0	0.98	0	1
Chignik/Kodiak	0	0	0	0.98	0	1
East of Kodiak	0	0	0	0.98	0	1
Total	2,042				2,039	

Note: Harvest is the number of chum salmon reported to have been harvested and n is the final number of samples used in genetic analyses.

^a No subsistence survey conducted, harvest for season estimated as average harvest between 1990 and 2011 and assumed CV of 0.79.

^b Adjusted median; 1.27 times unadjusted median.

Appendix C185.–Toksook Bay, Subsistence, Kuskokwim Area, Arctic-Yukon-Kuskokwim Region 2008 temporal stratum 1. Reporting group-specific harvest estimates including adjusted median, 90% credibility interval, the probability that reporting group estimate is equal to zero ($P = 0$), mean, and SD.

Reporting Group	Stratum 1 (Season; Harvest = 2,042 ^a ; n = 394)					
	Median ^b	90% CI		$P = 0$	Mean	SD
		5%	95%			
Asia	4	0	22	0.14	6	9
Kotzebue Sound	0	0	0	0.96	0	3
CWAK	2,038	505	5,027	0.00	2,033	1,623
Upper Yukon	0	0	2	0.94	1	10
Northern Dist.	0	0	3	0.91	1	3
Northwestern Dist.	0	0	9	0.72	2	5
South Peninsula	0	0	0	0.96	0	2
Chignik/Kodiak	0	0	2	0.93	0	2
East of Kodiak	0	0	0	0.98	0	1
Total	2,042				2,043	

Note: Harvest is the number of chum salmon reported to have been harvested and n is the final number of samples used in genetic analyses.

^a No subsistence survey conducted, harvest for season estimated as average harvest between 1990 and 2011 and assumed CV of 0.79. There were 600 fish harvested during period samples were collected (Eggers et al. 2011).

^b Adjusted median; 1.28 times unadjusted median.

Appendix C186.–Toksook Bay, Subsistence, Kuskokwim Area, Arctic-Yukon-Kuskokwim Region 2009 temporal stratum 1. Reporting group-specific harvest estimates including adjusted median, 90% credibility interval, the probability that reporting group estimate is equal to zero ($P = 0$), mean, and SD.

Reporting Group	Stratum 1 (Season; Harvest = 2,042 ^a ; n = 110)					
	Median ^b	90% CI		$P = 0$	Mean	SD
		5%	95%			
Asia	0	0	0	0.97	0	2
Kotzebue Sound	0	0	0	0.97	0	3
CWAK	2,042	508	5,048	0.00	2,039	1,610
Upper Yukon	0	0	0	0.96	0	6
Northern Dist.	0	0	0	0.97	0	5
Northwestern Dist.	0	0	0	0.97	0	2
South Peninsula	0	0	0	0.97	0	2
Chignik/Kodiak	0	0	0	0.97	0	3
East of Kodiak	0	0	0	0.97	0	2
Total	2,042				2,039	

Note: Harvest is the number of chum salmon reported to have been harvested and n is the final number of samples used in genetic analyses.

^a No subsistence survey conducted, harvest for season estimated as average harvest between 1990 and 2011 and assumed CV of 0.79.

^b Adjusted median; 1.28 times unadjusted median.

Appendix C187.—District 1 marine areas excluding Black River (summer), Commercial, Yukon-Northern Area, Arctic-Yukon-Kuskokwim Region 2007 temporal stratum 1. Reporting group-specific harvest estimates including adjusted median, 90% credibility interval, the probability that reporting group estimate is equal to zero ($P = 0$), mean, and SD.

Stratum 1 (6/19–6/22; Harvest = 1,548; n = 393)						
Reporting Group	Median ^a	90% CI		$P = 0$	Mean	SD
		5%	95%			
Asia	0	0	0	0.98	0	0
Kotzebue Sound	0	0	0	0.97	0	1
CWAK	1,503	1,375	1,637	0.00	1,502	80
Upper Yukon	45	0	91	0.06	46	27
Northern Dist.	0	0	0	0.98	0	1
Northwestern Dist.	0	0	0	0.98	0	0
South Peninsula	0	0	0	0.98	0	0
Chignik/Kodiak	0	0	0	0.98	0	0
East of Kodiak	0	0	0	0.98	0	0
Total	1,548				1,548	

Note: Harvest is the number of chum salmon reported to have been harvested and n is the final number of samples used in genetic analyses.

^a Adjusted median; 1.00 times unadjusted median.

Appendix C188.—District 1 marine areas excluding Black River (summer), Commercial, Yukon-Northern Area, Arctic-Yukon-Kuskokwim Region 2007 temporal stratum 2. Reporting group-specific harvest estimates including adjusted median, 90% credibility interval, the probability that reporting group estimate is equal to zero ($P = 0$), mean, and SD.

Reporting Group	Stratum 2 (6/26–7/2; Harvest = 7,867; n = 385)					
	Median ^a	90% CI		$P = 0$	Mean	SD
		5%	95%			
Asia	8	0	56	0.28	15	20
Kotzebue Sound	0	0	0	0.96	1	7
CWAK	7,411	6,736	8,089	0.00	7,395	411
Upper Yukon	448	178	768	0.00	456	181
Northern Dist.	0	0	0	0.97	0	2
Northwestern Dist.	0	0	0	0.97	0	2
South Peninsula	0	0	0	0.97	0	2
Chignik/Kodiak	0	0	0	0.97	0	2
East of Kodiak	0	0	0	0.97	0	2
Total	7,867				7,867	

Note: Harvest is the number of chum salmon reported to have been harvested and n is the final number of samples used in genetic analyses.

^a Adjusted median; 1.00 times unadjusted median.

Appendix C189.—District 1 marine areas excluding Black River (summer), Commercial, Yukon-Northern Area, Arctic-Yukon-Kuskokwim Region 2007 temporal stratum 3. Reporting group-specific harvest estimates including adjusted median, 90% credibility interval, the probability that reporting group estimate is equal to zero ($P = 0$), mean, and SD.

Reporting Group	Stratum 3 (7/6–7/15; Harvest = 2,367; n = 393)					
	Median ^a	90% CI		$P = 0$	Mean	SD
		5%	95%			
Asia	0	0	0	0.98	0	1
Kotzebue Sound	0	0	0	0.97	0	1
CWAK	2,119	1,925	2,317	0.00	2,116	119
Upper Yukon	248	164	346	0.00	250	56
Northern Dist.	0	0	0	0.98	0	1
Northwestern Dist.	0	0	0	0.98	0	1
South Peninsula	0	0	0	0.98	0	1
Chignik/Kodiak	0	0	0	0.98	0	1
East of Kodiak	0	0	0	0.98	0	1
Total	2,367				2,366	

Note: Harvest is the number of chum salmon reported to have been harvested and n is the final number of samples used in genetic analyses.

^a Adjusted median; 1.00 times unadjusted median.

Appendix C190.—District 1 marine areas excluding Black River (summer), Commercial, Yukon-Northern Area, Arctic-Yukon-Kuskokwim Region 2008 temporal stratum 2. Reporting group-specific harvest estimates including adjusted median, 90% credibility interval, the probability that reporting group estimate is equal to zero ($P = 0$), mean, and SD.

Reporting Group	Stratum 2 (7/2–7/5; Harvest = 1,973; n = 387)					
	Median ^a	90% CI		$P = 0$	Mean	SD
		5%	95%			
Asia	0	0	0	0.98	0	1
Kotzebue Sound	0	0	0	0.97	0	1
CWAK	1,829	1,643	2,026	0.00	1,830	116
Upper Yukon	144	16	262	0.02	143	73
Northern Dist.	0	0	0	0.98	0	1
Northwestern Dist.	0	0	0	0.98	0	1
South Peninsula	0	0	0	0.98	0	1
Chignik/Kodiak	0	0	0	0.98	0	0
East of Kodiak	0	0	0	0.98	0	1
Total	1,973				1,973	

Note: Harvest is the number of chum salmon reported to have been harvested and n is the final number of samples used in genetic analyses.

^a Adjusted median; 1.00 times unadjusted median.

Appendix C191.—District 1 marine areas excluding Black River (summer), Commercial, Yukon-Northern Area, Arctic-Yukon-Kuskokwim Region 2008 temporal stratum 3. Reporting group-specific harvest estimates including adjusted median, 90% credibility interval, the probability that reporting group estimate is equal to zero ($P = 0$), mean, and SD.

Reporting Group	Stratum 3 (7/8–7/14; Harvest = 2,639; n = 390)					
	Median ^a	90% CI		$P = 0$	Mean	SD
		5%	95%			
Asia	0	0	0	0.97	0	1
Kotzebue Sound	0	0	0	0.97	0	2
CWAK	1,973	1,736	2,211	0.00	1,970	144
Upper Yukon	666	495	855	0.00	668	109
Northern Dist.	0	0	0	0.98	0	1
Northwestern Dist.	0	0	0	0.98	0	1
South Peninsula	0	0	0	0.97	0	1
Chignik/Kodiak	0	0	0	0.97	0	1
East of Kodiak	0	0	0	0.96	0	2
Total	2,639				2,638	

Note: Harvest is the number of chum salmon reported to have been harvested and n is the final number of samples used in genetic analyses.

^a Adjusted median; 1.00 times unadjusted median.

Appendix C192.—District 1 marine areas excluding Black River (summer), Commercial, Yukon-Northern Area, Arctic-Yukon-Kuskokwim Region 2009 temporal stratum 1. Reporting group-specific harvest estimates including adjusted median, 90% credibility interval, the probability that reporting group estimate is equal to zero ($P = 0$), mean, and SD.

Stratum 1 (6/29–7/2; Harvest = 2,560; n = 342)						
Reporting Group	Median ^a	90% CI		$P = 0$	Mean	SD
		5%	95%			
Asia	0	0	0	0.97	0	1
Kotzebue Sound	0	0	0	0.95	0	3
CWAK	2,096	1,878	2,315	0.00	2,092	133
Upper Yukon	464	331	614	0.00	467	86
Northern Dist.	0	0	0	0.98	0	1
Northwestern Dist.	0	0	0	0.98	0	1
South Peninsula	0	0	0	0.98	0	1
Chignik/Kodiak	0	0	0	0.98	0	1
East of Kodiak	0	0	0	0.98	0	1
Total	2,560				2,559	

Note: Harvest is the number of chum salmon reported to have been harvested and n is the final number of samples used in genetic analyses.

^a Adjusted median; 1.00 times unadjusted median.

Appendix C193.—District 1 marine areas excluding Black River (summer), Commercial, Yukon-Northern Area, Arctic-Yukon-Kuskokwim Region 2009 temporal stratum 2. Reporting group-specific harvest estimates including adjusted median, 90% credibility interval, the probability that reporting group estimate is equal to zero ($P = 0$), mean, and SD.

Stratum 2 (7/3–7/8; Harvest = 2,551; n = 296)						
Reporting Group	Median ^a	90% CI		$P = 0$	Mean	SD
		5%	95%			
Asia	0	0	0	0.98	0	1
Kotzebue Sound	0	0	0	0.95	1	4
CWAK	1,895	1,674	2,120	0.00	1,892	136
Upper Yukon	656	495	834	0.00	658	103
Northern Dist.	0	0	0	0.97	0	1
Northwestern Dist.	0	0	0	0.98	0	1
South Peninsula	0	0	0	0.98	0	1
Chignik/Kodiak	0	0	0	0.98	0	1
East of Kodiak	0	0	0	0.98	0	1
Total	2,551				2,551	

Note: Harvest is the number of chum salmon reported to have been harvested and n is the final number of samples used in genetic analyses.

^a Adjusted median; 1.00 times unadjusted median.

Appendix C194.—District 1 marine areas excluding Black River (summer), Commercial, Yukon-Northern Area, Arctic-Yukon-Kuskokwim Region 2009 temporal stratum 3. Reporting group-specific harvest estimates including adjusted median, 90% credibility interval, the probability that reporting group estimate is equal to zero ($P = 0$), mean, and SD.

Stratum 3 (7/10–7/15; Harvest = 1,729; n = 295)						
Reporting Group	Median ^a	90% CI		$P = 0$	Mean	SD
		5%	95%			
Asia	0	0	0	0.98	0	1
Kotzebue Sound	0	0	0	0.97	0	1
CWAK	1,090	921	1,266	0.00	1,089	105
Upper Yukon	639	485	798	0.00	639	95
Northern Dist.	0	0	0	0.97	0	1
Northwestern Dist.	0	0	0	0.98	0	1
South Peninsula	0	0	0	0.98	0	1
Chignik/Kodiak	0	0	0	0.98	0	1
East of Kodiak	0	0	0	0.98	0	1
Total	1,729				1,728	

Note: Harvest is the number of chum salmon reported to have been harvested and n is the final number of samples used in genetic analyses.

^a Adjusted median; 1.00 times unadjusted median.

Appendix C195.—District 1 Black River only (summer), Commercial, Yukon-Northern Area, Arctic-Yukon-Kuskokwim Region 2007 temporal stratum 1. Reporting group-specific harvest estimates including adjusted median, 90% credibility interval, the probability that reporting group estimate is equal to zero ($P = 0$), mean, and SD.

Stratum 1 (6/19–6/22; Harvest = 1,635; n = 397)						
Reporting Group	Median ^a	90% CI		$P = 0$	Mean	SD
		5%	95%			
Asia	0	0	0	0.98	0	0
Kotzebue Sound	0	0	0	0.98	0	1
CWAK	1,630	1,492	1,763	0.00	1,625	82
Upper Yukon	5	0	37	0.30	10	13
Northern Dist.	0	0	0	0.98	0	0
Northwestern Dist.	0	0	0	0.98	0	0
South Peninsula	0	0	0	0.98	0	1
Chignik/Kodiak	0	0	0	0.98	0	0
East of Kodiak	0	0	0	0.98	0	0
Total	1,635				1,635	

Note: Harvest is the number of chum salmon reported to have been harvested and n is the final number of samples used in genetic analyses.

^a Adjusted median; 1.00 times unadjusted median.

Appendix C196.—District 1 Black River only (summer), Commercial, Yukon-Northern Area, Arctic-Yukon-Kuskokwim Region 2007 temporal stratum 2. Reporting group-specific harvest estimates including adjusted median, 90% credibility interval, the probability that reporting group estimate is equal to zero ($P = 0$), mean, and SD.

Stratum 2 (6/26–7/2; Harvest = 2,080; n = 116)						
Reporting Group	Median ^a	90% CI		$P = 0$	Mean	SD
		5%	95%			
Asia	0	0	0	0.97	0	2
Kotzebue Sound	0	0	0	0.96	0	4
CWAK	1,962	1,668	2,178	0.00	1,936	156
Upper Yukon	118	0	371	0.15	143	122
Northern Dist.	0	0	0	0.97	0	2
Northwestern Dist.	0	0	0	0.97	0	2
South Peninsula	0	0	0	0.97	0	2
Chignik/Kodiak	0	0	0	0.97	0	2
East of Kodiak	0	0	0	0.97	0	2
Total	2,080				2,079	

Note: Harvest is the number of chum salmon reported to have been harvested and n is the final number of samples used in genetic analyses.

^a Adjusted median; 1.01 times unadjusted median.

Appendix C197.—District 1 Black River only (summer), Commercial, Yukon-Northern Area, Arctic-Yukon-Kuskokwim Region 2007 temporal stratum 3. Reporting group-specific harvest estimates including adjusted median, 90% credibility interval, the probability that reporting group estimate is equal to zero ($P = 0$), mean, and SD.

Reporting Group	Stratum 3 (7/6–7/15; Harvest = 9; n = 0 ^a)					
	Median ^b	90% CI		$P = 0$	Mean	SD
		5%	95%			
Asia	0	0	0	1.00	0	0
Kotzebue Sound	0	0	0	1.00	0	0
CWAK	8	7	9	0.00	8	1
Upper Yukon	1	1	1	0.01	1	0
Northern Dist.	0	0	0	1.00	0	0
Northwestern Dist.	0	0	0	1.00	0	0
South Peninsula	0	0	0	1.00	0	0
Chignik/Kodiak	0	0	0	1.00	0	0
East of Kodiak	0	0	0	1.00	0	0
Total	9				9	

Note: Harvest is the number of chum salmon reported to have been harvested and n is the final number of samples used in genetic analyses.

^a Only 9 samples collected; therefore, stock composition not estimated with these samples. Stock composition estimate from temporal stratum 3, 2007, District 1 Commercial marine areas excluding Black River (summer) used as proxy.

^b Adjusted median; 1.00 times unadjusted median.

Appendix C198.—District 1 Black River only (summer), Commercial, Yukon-Northern Area, Arctic-Yukon-Kuskokwim Region 2008 temporal stratum 2. Reporting group-specific harvest estimates including adjusted median, 90% credibility interval, the probability that reporting group estimate is equal to zero ($P = 0$), mean, and SD.

Stratum 2 (7/2–7/5; Harvest = 580; n = 0 ^a)						
Reporting Group	Median ^b	90% CI		$P = 0$	Mean	SD
		5%	95%			
Asia	0	0	0	0.99	0	0
Kotzebue Sound	0	0	0	0.98	0	0
CWAK	538	483	596	0.00	538	34
Upper Yukon	42	5	77	0.02	42	21
Northern Dist.	0	0	0	0.99	0	0
Northwestern Dist.	0	0	0	0.99	0	0
South Peninsula	0	0	0	0.99	0	0
Chignik/Kodiak	0	0	0	0.99	0	0
East of Kodiak	0	0	0	0.99	0	0
Total	580				580	

Note: Harvest is the number of chum salmon reported to have been harvested and n is the final number of samples used in genetic analyses.

^a No samples collected. Stock composition estimate from temporal stratum 2, 2008, District 1 Commercial marine areas excluding Black River (summer) used as proxy.

^b Adjusted median; 1.00 times unadjusted median.

Appendix C199.—District 1 Black River only (summer), Commercial, Yukon-Northern Area, Arctic-Yukon-Kuskokwim Region 2008 temporal stratum 3. Reporting group-specific harvest estimates including adjusted median, 90% credibility interval, the probability that reporting group estimate is equal to zero ($P = 0$), mean, and SD.

Stratum 3 (7/8–7/14; Harvest = 620; n = 0 ^a)						
Reporting Group	Median ^b	90% CI		$P = 0$	Mean	SD
		5%	95%			
Asia	0	0	0	0.99	0	0
Kotzebue Sound	0	0	0	0.98	0	0
CWAK	463	408	519	0.00	463	34
Upper Yukon	157	117	201	0.00	157	26
Northern Dist.	0	0	0	0.99	0	0
Northwestern Dist.	0	0	0	0.99	0	0
South Peninsula	0	0	0	0.99	0	0
Chignik/Kodiak	0	0	0	0.98	0	0
East of Kodiak	0	0	0	0.97	0	0
Total	620				620	

Note: Harvest is the number of chum salmon reported to have been harvested and n is the final number of samples used in genetic analyses.

^a No samples collected. Stock composition estimate from temporal stratum 3, 2008, District 1 Commercial marine areas excluding Black River (summer) used as proxy.

^b Adjusted median; 1.00 times unadjusted median.

Appendix C200.—District 1 Black River only (summer), Commercial, Yukon-Northern Area, Arctic-Yukon-Kuskokwim Region 2009 temporal stratum 2. Reporting group-specific harvest estimates including adjusted median, 90% credibility interval, the probability that reporting group estimate is equal to zero ($P = 0$), mean, and SD.

Reporting Group	Stratum 2 (7/3–7/4; Harvest = 51; n = 0 ^a)					
	Median ^b	90% CI		$P = 0$	Mean	SD
		5%	95%			
Asia	0	0	0	1.00	0	0
Kotzebue Sound	0	0	0	0.99	0	0
CWAK	38	33	42	0.00	38	3
Upper Yukon	13	10	17	0.00	13	2
Northern Dist.	0	0	0	1.00	0	0
Northwestern Dist.	0	0	0	1.00	0	0
South Peninsula	0	0	0	1.00	0	0
Chignik/Kodiak	0	0	0	1.00	0	0
East of Kodiak	0	0	0	1.00	0	0
Total	51				51	

Note: Harvest is the number of chum salmon reported to have been harvested and n is the final number of samples used in genetic analyses.

^a No samples collected. Stock composition estimate from temporal stratum 2, 2009, District 1 Commercial marine areas excluding Black River (summer) used as proxy.

^b Adjusted median; 1.00 times unadjusted median.

Appendix C201.—District 1 Black River only (summer), Commercial, Yukon-Northern Area, Arctic-Yukon-Kuskokwim Region 2009 temporal stratum 3. Reporting group-specific harvest estimates including adjusted median, 90% credibility interval, the probability that reporting group estimate is equal to zero ($P = 0$), mean, and SD.

Stratum 3 (7/10–7/11; Harvest = 679; n = 0 ^a)						
Reporting Group	Median ^b	90% CI		$P = 0$	Mean	SD
		5%	95%			
Asia	0	0	0	0.99	0	0
Kotzebue Sound	0	0	0	0.98	0	1
CWAK	428	362	497	0.00	428	41
Upper Yukon	251	191	313	0.00	251	37
Northern Dist.	0	0	0	0.98	0	1
Northwestern Dist.	0	0	0	0.99	0	0
South Peninsula	0	0	0	0.99	0	0
Chignik/Kodiak	0	0	0	0.99	0	0
East of Kodiak	0	0	0	0.99	0	0
Total	679				679	

Note: Harvest is the number of chum salmon reported to have been harvested and n is the final number of samples used in genetic analyses.

^a No samples collected. Stock composition estimate from temporal stratum 3, 2009, District 1 Commercial marine areas excluding Black River (summer) used as proxy.

^b Adjusted median; 1.00 times unadjusted median.

Appendix C202.—Coastal District (Hooper Bay; summer), Subsistence, Yukon-Northern Area, Arctic-Yukon-Kuskokwim Region 2007 temporal stratum 1. Reporting group-specific harvest estimates including adjusted median, 90% credibility interval, the probability that reporting group estimate is equal to zero ($P = 0$), mean, and SD.

Reporting Group	Stratum 1 (Season; Harvest = 12,234; n = 314)					
	Median ^a	90% CI		$P = 0$	Mean	SD
		5%	95%			
Asia	0	0	0	0.96	0	4
Kotzebue Sound	0	0	0	0.96	1	6
CWAK	12,234	10,326	14,318	0.00	12,226	1,219
Upper Yukon	0	0	2	0.94	2	17
Northern Dist.	0	0	0	0.96	0	4
Northwestern Dist.	0	0	0	0.96	0	4
South Peninsula	0	0	0	0.96	0	4
Chignik/Kodiak	0	0	0	0.96	0	4
East of Kodiak	0	0	0	0.96	0	4
Total	12,234				12,229	

Note: Harvest is the number of chum salmon reported to have been harvested and n is the final number of samples used in genetic analyses.

^a Adjusted median; 1.01 times unadjusted median.

Appendix C203.—Coastal District (Hooper Bay; summer), Subsistence, Yukon-Northern Area, Arctic-Yukon-Kuskokwim Region 2008 temporal stratum 1. Reporting group-specific harvest estimates including adjusted median, 90% credibility interval, the probability that reporting group estimate is equal to zero ($P = 0$), mean, and SD.

Stratum 1 (Season; Harvest = 12,007; n = 377)						
Reporting Group	Median ^a	90% CI		$P = 0$	Mean	SD
		5%	95%			
Asia	0	0	0	0.96	1	6
Kotzebue Sound	0	0	1	0.95	2	13
CWAK	12,007	10,134	14,081	0.00	12,005	1,204
Upper Yukon	0	0	1	0.95	2	20
Northern Dist.	0	0	0	0.96	0	4
Northwestern Dist.	0	0	0	0.96	0	3
South Peninsula	0	0	0	0.96	0	4
Chignik/Kodiak	0	0	0	0.96	0	4
East of Kodiak	0	0	0	0.96	0	3
Total	12,007				12,010	

Note: Harvest is the number of chum salmon reported to have been harvested and n is the final number of samples used in genetic analyses.

^a Adjusted median; 1.01 times unadjusted median.

Appendix C204.—Coastal District (Hooper Bay; summer), Subsistence, Yukon-Northern Area, Arctic-Yukon-Kuskokwim Region 2009 temporal stratum 1. Reporting group-specific harvest estimates including adjusted median, 90% credibility interval, the probability that reporting group estimate is equal to zero ($P = 0$), mean, and SD.

Reporting Group	Stratum 1 (Season; Harvest = 9,200; n = 363)					
	Median ^a	90% CI		$P = 0$	Mean	SD
		5%	95%			
Asia	0	0	0	0.97	0	3
Kotzebue Sound	0	0	0	0.96	1	7
CWAK	9,200	7,761	10,772	0.00	9,193	919
Upper Yukon	0	0	1	0.94	3	30
Northern Dist.	0	0	0	0.95	1	5
Northwestern Dist.	0	0	0	0.96	0	3
South Peninsula	0	0	1	0.94	1	6
Chignik/Kodiak	0	0	3	0.93	1	7
East of Kodiak	0	0	0	0.97	0	3
Total	9,200				9,200	

Note: Harvest is the number of chum salmon reported to have been harvested and n is the final number of samples used in genetic analyses.

^a Adjusted median; 1.01 times unadjusted median.

Appendix C205.—District 1 (Scammon Bay) Black River (summer), Subsistence, Yukon-Northern Area, Arctic-Yukon-Kuskokwim Region 2007 temporal stratum 1. Reporting group-specific harvest estimates including adjusted median, 90% credibility interval, the probability that reporting group estimate is equal to zero ($P = 0$), mean, and SD.

Reporting Group	Stratum 1 (Season; Harvest = 3,887; n = 0 ^a)					
	Median ^b	90% CI		$P = 0$	Mean	SD
		5%	95%			
Asia	0	0	0	0.96	0	1
Kotzebue Sound	0	0	1	0.94	0	3
CWAK	3,685	3,101	4,320	0.00	3,679	372
Upper Yukon	202	125	300	0.00	205	54
Northern Dist.	0	0	0	0.96	0	1
Northwestern Dist.	0	0	0	0.96	0	1
South Peninsula	0	0	0	0.96	0	1
Chignik/Kodiak	0	0	0	0.96	0	1
East of Kodiak	0	0	0	0.96	0	1
Total	3,887				3,884	

Note: Harvest is the number of chum salmon reported to have been harvested and n is the final number of samples used in genetic analyses.

^a No samples collected. Average stock composition estimate from temporal stratum 1, 2008 and 2009, District 1 (Scammon Bay) Black River Subsistence (summer) used as proxy.

^b Adjusted median; 1.01 times unadjusted median.

Appendix C206.—District 1 (Scammon Bay) Black River (summer), Subsistence, Yukon-Northern Area, Arctic-Yukon-Kuskokwim Region 2008 temporal stratum 1. Reporting group-specific harvest estimates including adjusted median, 90% credibility interval, the probability that reporting group estimate is equal to zero ($P = 0$), mean, and SD.

Reporting Group	Stratum 1 (Season; Harvest = 6,117; n = 383)					
	Median ^a	90% CI		$P = 0$	Mean	SD
		5%	95%			
Asia	0	0	0	0.97	0	2
Kotzebue Sound	0	0	0	0.95	1	7
CWAK	5,744	4,830	6,743	0.00	5,735	584
Upper Yukon	373	211	590	0.00	381	116
Northern Dist.	0	0	0	0.97	0	2
Northwestern Dist.	0	0	0	0.97	0	2
South Peninsula	0	0	0	0.97	0	2
Chignik/Kodiak	0	0	0	0.97	0	2
East of Kodiak	0	0	0	0.97	0	2
Total	6,117				6,117	

Note: Harvest is the number of chum salmon reported to have been harvested and n is the final number of samples used in genetic analyses.

^a Adjusted median; 1.01 times unadjusted median.

Appendix C207.—District 1 (Scammon Bay) Black River (summer), Subsistence, Yukon-Northern Area, Arctic-Yukon-Kuskokwim Region 2009 temporal stratum 1. Reporting group-specific harvest estimates including adjusted median, 90% credibility interval, the probability that reporting group estimate is equal to zero ($P = 0$), mean, and SD.

Reporting Group	Stratum 1 (Season; Harvest = 3,600; n = 397)					
	Median ^a	90% CI		$P = 0$	Mean	SD
		5%	95%			
Asia	0	0	0	0.98	0	1
Kotzebue Sound	0	0	0	0.97	0	2
CWAK	3,472	2,917	4,074	0.00	3,468	352
Upper Yukon	128	45	238	0.01	132	59
Northern Dist.	0	0	0	0.98	0	1
Northwestern Dist.	0	0	0	0.98	0	1
South Peninsula	0	0	0	0.98	0	1
Chignik/Kodiak	0	0	0	0.98	0	1
East of Kodiak	0	0	0	0.98	0	1
Total	3,600				3,600	

Note: Harvest is the number of chum salmon reported to have been harvested and n is the final number of samples used in genetic analyses.

^a Adjusted median; 1.01 times unadjusted median.

Appendix C208.—District 1 marine areas excluding Black River (fall), Commercial, Yukon-Northern Area, Arctic-Yukon-Kuskokwim Region 2007 temporal stratum 2. Reporting group-specific harvest estimates including adjusted median, 90% credibility interval, the probability that reporting group estimate is equal to zero ($P = 0$), mean, and SD.

Stratum 2 (8/14–8/24; Harvest = 27,294; n = 143)						
Reporting Group	Median ^a	90% CI		$P = 0$	Mean	SD
		5%	95%			
Asia	0	0	1	0.94	3	28
Kotzebue Sound	0	0	542	0.84	65	232
CWAK	1,255	212	2,557	0.01	1,303	705
Upper Yukon	26,039	23,567	28,357	0.00	25,914	1,458
Northern Dist.	0	0	1	0.95	2	19
Northwestern Dist.	0	0	1	0.95	2	20
South Peninsula	0	0	1	0.95	2	19
Chignik/Kodiak	0	0	1	0.95	2	19
East of Kodiak	0	0	1	0.95	2	18
Total	27,294				27,295	

Note: Harvest is the number of chum salmon reported to have been harvested and n is the final number of samples used in genetic analyses.

^a Adjusted median; 1.01 times unadjusted median.

Appendix C209.—District 1 marine areas excluding Black River (fall), Commercial, Yukon-Northern Area, Arctic-Yukon-Kuskokwim Region 2007 temporal stratum 3. Reporting group-specific harvest estimates including adjusted median, 90% credibility interval, the probability that reporting group estimate is equal to zero ($P = 0$), mean, and SD.

Stratum 3 (8/26–9/9; Harvest = 11,558; n = 220)						
Reporting Group	Median ^a	90% CI		$P = 0$	Mean	SD
		5%	95%			
Asia	405	189	713	0.00	420	161
Kotzebue Sound	320	132	616	0.00	339	150
CWAK	0	0	9	0.89	3	21
Upper Yukon	10,834	9,872	11,762	0.00	10,795	576
Northern Dist.	0	0	0	0.96	1	6
Northwestern Dist.	0	0	0	0.96	1	5
South Peninsula	0	0	0	0.96	1	5
Chignik/Kodiak	0	0	0	0.96	1	5
East of Kodiak	0	0	0	0.96	1	6
Total	11,559				11,562	

Note: Harvest is the number of chum salmon reported to have been harvested and n is the final number of samples used in genetic analyses.

^a Adjusted median; 1.00 times unadjusted median.

Appendix C210.—District 1 marine areas excluding Black River (fall), Commercial, Yukon-Northern Area, Arctic-Yukon-Kuskokwim Region 2008 temporal stratum 1. Reporting group-specific harvest estimates including adjusted median, 90% credibility interval, the probability that reporting group estimate is equal to zero ($P = 0$), mean, and SD.

Stratum 1 (7/17–7/25; Harvest = 13,066; n = 386)						
Reporting Group	Median ^a	90% CI		$P = 0$	Mean	SD
		5%	95%			
Asia	0	0	20	0.90	3	17
Kotzebue Sound	0	0	145	0.86	17	63
CWAK	6,293	5,436	7,198	0.00	6,287	537
Upper Yukon	6,773	5,877	7,670	0.00	6,756	546
Northern Dist.	0	0	0	0.96	0	5
Northwestern Dist.	0	0	0	0.96	0	3
South Peninsula	0	0	0	0.96	0	4
Chignik/Kodiak	0	0	0	0.96	0	4
East of Kodiak	0	0	0	0.96	0	3
Total	13,066				13,063	

Note: Harvest is the number of chum salmon reported to have been harvested and n is the final number of samples used in genetic analyses.

^a Adjusted median; 1.00 times unadjusted median.

Appendix C211.—District 1 marine areas excluding Black River (fall), Commercial, Yukon-Northern Area, Arctic-Yukon-Kuskokwim Region 2008 temporal stratum 2. Reporting group-specific harvest estimates including adjusted median, 90% credibility interval, the probability that reporting group estimate is equal to zero ($P = 0$), mean, and SD.

Stratum 2 (7/29–8/1; Harvest = 37,647; n = 285)						
Reporting Group	Median ^a	90% CI		$P = 0$	Mean	SD
		5%	95%			
Asia	0	0	51	0.90	11	58
Kotzebue Sound	0	0	5	0.93	8	66
CWAK	3,401	1,902	5,197	0.00	3,443	1,006
Upper Yukon	34,246	30,874	37,376	0.00	34,069	1,978
Northern Dist.	0	0	349	0.66	61	133
Northwestern Dist.	0	0	3	0.93	4	33
South Peninsula	0	0	1	0.94	3	29
Chignik/Kodiak	0	0	345	0.75	53	131
East of Kodiak	0	0	1	0.95	2	16
Total	37,647				37,654	

Note: Harvest is the number of chum salmon reported to have been harvested and n is the final number of samples used in genetic analyses.

^a Adjusted median; 1.01 times unadjusted median.

Appendix C212.—District 1 marine areas excluding Black River (fall), Commercial, Yukon-Northern Area, Arctic-Yukon-Kuskokwim Region 2008 temporal stratum 3. Reporting group-specific harvest estimates including adjusted median, 90% credibility interval, the probability that reporting group estimate is equal to zero ($P = 0$), mean, and SD.

Stratum 3 (8/26–9/10; Harvest = 16,991; n = 394)						
Reporting Group	Median ^a	90% CI		$P = 0$	Mean	SD
		5%	95%			
Asia	336	159	598	0.00	351	135
Kotzebue Sound	1,028	653	1,479	0.00	1,038	253
CWAK	0	0	220	0.83	27	87
Upper Yukon	15,627	14,261	16,951	0.00	15,570	820
Northern Dist.	0	0	0	0.96	1	5
Northwestern Dist.	0	0	0	0.96	0	5
South Peninsula	0	0	0	0.96	0	5
Chignik/Kodiak	0	0	0	0.96	0	4
East of Kodiak	0	0	0	0.96	0	5
Total	16,991				16,987	

Note: Harvest is the number of chum salmon reported to have been harvested and n is the final number of samples used in genetic analyses.

^a Adjusted median; 1.01 times unadjusted median.

Appendix C213.—District 1 marine areas excluding Black River (fall), Commercial, Yukon-Northern Area, Arctic-Yukon-Kuskokwim Region 2009 temporal stratum 1. Reporting group-specific harvest estimates including adjusted median, 90% credibility interval, the probability that reporting group estimate is equal to zero ($P = 0$), mean, and SD.

Stratum 1 (7/18–7/22; Harvest = 6,810; n = 303)						
Reporting Group	Median ^a	90% CI		$P = 0$	Mean	SD
		5%	95%			
Asia	0	0	0	0.97	0	2
Kotzebue Sound	0	0	0	0.95	1	8
CWAK	2,601	2,089	3,182	0.00	2,609	333
Upper Yukon	4,209	3,591	4,813	0.00	4,198	371
Northern Dist.	0	0	0	0.96	0	4
Northwestern Dist.	0	0	0	0.97	0	2
South Peninsula	0	0	0	0.97	0	2
Chignik/Kodiak	0	0	0	0.97	0	2
East of Kodiak	0	0	0	0.97	0	2
Total	6,810				6,808	

Note: Harvest is the number of chum salmon reported to have been harvested and n is the final number of samples used in genetic analyses.

^a Adjusted median; 1.00 times unadjusted median.

Appendix C214.—District 1 marine areas excluding Black River (fall), Commercial, Yukon-Northern Area, Arctic-Yukon-Kuskokwim Region 2009 temporal stratum 2. Reporting group-specific harvest estimates including adjusted median, 90% credibility interval, the probability that reporting group estimate is equal to zero ($P = 0$), mean, and SD.

Reporting Group	Stratum 2 (7/29–8/5; Harvest = 4,181; n = 278)					
	Median ^a	90% CI		$P = 0$	Mean	SD
		5%	95%			
Asia	0	0	0	0.97	0	1
Kotzebue Sound	0	0	0	0.95	1	5
CWAK	299	165	480	0.00	307	96
Upper Yukon	3,882	3,525	4,233	0.00	3,871	216
Northern Dist.	0	0	0	0.97	0	2
Northwestern Dist.	0	0	0	0.97	0	2
South Peninsula	0	0	0	0.97	0	2
Chignik/Kodiak	0	0	0	0.97	0	1
East of Kodiak	0	0	0	0.97	0	1
Total	4,181				4,179	

Note: Harvest is the number of chum salmon reported to have been harvested and n is the final number of samples used in genetic analyses.

^a Adjusted median; 1.00 times unadjusted median.

Appendix C215.—District 1 marine areas excluding Black River (fall), Commercial, Yukon-Northern Area, Arctic-Yukon-Kuskokwim Region 2009 temporal stratum 3. Reporting group-specific harvest estimates including adjusted median, 90% credibility interval, the probability that reporting group estimate is equal to zero ($P = 0$), mean, and SD.

Reporting Group	Stratum 3 (9/6–9/10; Harvest = 920; n = 0 ^a)					
	Median ^b	90% CI		$P = 0$	Mean	SD
		5%	95%			
Asia	24	15	37	0.00	25	7
Kotzebue Sound	44	30	61	0.00	44	10
CWAK	0	0	7	0.83	1	3
Upper Yukon	852	779	923	0.00	849	44
Northern Dist.	0	0	0	0.98	0	0
Northwestern Dist.	0	0	0	0.98	0	0
South Peninsula	0	0	0	0.98	0	0
Chignik/Kodiak	0	0	0	0.98	0	0
East of Kodiak	0	0	0	0.98	0	0
Total	920				919	

Note: Harvest is the number of chum salmon reported to have been harvested and n is the final number of samples used in genetic analyses.

^a No samples collected. Average stock composition estimate from temporal stratum 3, 2007 and 2009, District 1 Commercial marine areas excluding Black River (fall) used as proxy.

^b Adjusted median; 1.00 times unadjusted median.

Appendix C216.—District 1 Black River only (fall), Commercial, Yukon-Northern Area, Arctic-Yukon-Kuskokwim Region 2008 temporal stratum 2. Reporting group-specific harvest estimates including adjusted median, 90% credibility interval, the probability that reporting group estimate is equal to zero ($P = 0$), mean, and SD.

Reporting Group	Stratum 2 (7/29–8/1; Harvest = 22; n = 0 ^a)					
	Median ^b	90% CI		$P = 0$	Mean	SD
		5%	95%			
Asia	0	0	0	1.00	0	0
Kotzebue Sound	0	0	0	1.00	0	0
CWAK	0	0	0	1.00	0	0
Upper Yukon	22	20	24	0.00	22	1
Northern Dist.	0	0	0	1.00	0	0
Northwestern Dist.	0	0	0	1.00	0	0
South Peninsula	0	0	0	1.00	0	0
Chignik/Kodiak	0	0	0	1.00	0	0
East of Kodiak	0	0	0	1.00	0	0
Total	22				22	

Note: Harvest is the number of chum salmon reported to have been harvested and n is the final number of samples used in genetic analyses.

^a Only 22 fish were harvested; therefore, stock composition not estimated. Assumed 100% fish harvested belong to Upper Yukon reporting group.

^b Adjusted median; 1.00 times unadjusted median.

Appendix C217.—Subdistrict 6 Unalakleet, Commercial, Norton Sound-Port Clarence Area, Arctic-Yukon-Kuskokwim Region 2007 temporal stratum 1. Reporting group-specific harvest estimates including adjusted median, 90% credibility interval, the probability that reporting group estimate is equal to zero ($P = 0$), mean, and SD.

Stratum 1 (7/18–7/21; Harvest = 2,003; n = 396)						
Reporting Group	Median ^a	90% CI		$P = 0$	Mean	SD
		5%	95%			
Asia	0	0	0	0.98	0	1
Kotzebue Sound	0	0	23	0.85	3	11
CWAK	2,003	1,838	2,169	0.00	1,999	100
Upper Yukon	0	0	0	0.98	0	1
Northern Dist.	0	0	0	0.95	0	1
Northwestern Dist.	0	0	0	0.98	0	1
South Peninsula	0	0	0	0.98	0	1
Chignik/Kodiak	0	0	0	0.98	0	1
East of Kodiak	0	0	0	0.98	0	1
Total	2,003				2,002	

Note: Harvest is the number of chum salmon reported to have been harvested and n is the final number of samples used in genetic analyses.

^a Adjusted median; 1.00 times unadjusted median.

Appendix C218.—Subdistrict 6 Unalakleet, Commercial, Norton Sound-Port Clarence Area, Arctic-Yukon-Kuskokwim Region 2007 temporal stratum 2. Reporting group-specific harvest estimates including adjusted median, 90% credibility interval, the probability that reporting group estimate is equal to zero ($P = 0$), mean, and SD.

Stratum 2 (7/22–7/31; Harvest = 5,790; n = 398)						
Reporting Group	Median ^a	90% CI		$P = 0$	Mean	SD
		5%	95%			
Asia	0	0	0	0.97	0	2
Kotzebue Sound	0	0	144	0.53	26	55
CWAK	5,790	5,290	6,254	0.00	5,762	293
Upper Yukon	0	0	0	0.96	0	4
Northern Dist.	0	0	0	0.96	0	3
Northwestern Dist.	0	0	0	0.97	0	2
South Peninsula	0	0	0	0.97	0	1
Chignik/Kodiak	0	0	0	0.97	0	2
East of Kodiak	0	0	0	0.97	0	1
Total	5,790				5,788	

Note: Harvest is the number of chum salmon reported to have been harvested and n is the final number of samples used in genetic analyses.

^a Adjusted median; 1.01 times unadjusted median.

Appendix C219.—Subdistrict 6 Unalakleet, Commercial, Norton Sound-Port Clarence Area, Arctic-Yukon-Kuskokwim Region 2007 temporal stratum 3. Reporting group-specific harvest estimates including adjusted median, 90% credibility interval, the probability that reporting group estimate is equal to zero ($P = 0$), mean, and SD.

Reporting Group	Stratum 3 (8/5–9/7; Harvest = 3,995; n = 0 ^a)					
	Median ^b	90% CI		$P = 0$	Mean	SD
		5%	95%			
Asia	0	0	0	0.97	0	1
Kotzebue Sound	0	0	99	0.54	18	38
CWAK	3,995	3,650	4,314	0.00	3,976	202
Upper Yukon	0	0	0	0.96	0	3
Northern Dist.	0	0	0	0.97	0	2
Northwestern Dist.	0	0	0	0.97	0	1
South Peninsula	0	0	0	0.98	0	1
Chignik/Kodiak	0	0	0	0.97	0	1
East of Kodiak	0	0	0	0.97	0	1
Total	3,995				3,994	

Note: Harvest is the number of chum salmon reported to have been harvested and n is the final number of samples used in genetic analyses.

^a No samples collected. Stock composition estimate from temporal stratum 2, 2007, Subdistrict 6 Commercial, Norton Sound District used as proxy.

^b Adjusted median; 1.01 times unadjusted median.

Appendix C220.—Subdistrict 6 Unalakleet, Commercial, Norton Sound-Port Clarence Area, Arctic-Yukon-Kuskokwim Region 2008 temporal stratum 1. Reporting group-specific harvest estimates including adjusted median, 90% credibility interval, the probability that reporting group estimate is equal to zero ($P = 0$), mean, and SD.

Reporting Group	Stratum 1 (7/8–7/15; Harvest = 1,522; n = 344)					
	Median ^a	90% CI		$P = 0$	Mean	SD
		5%	95%			
Asia	0	0	0	0.98	0	0
Kotzebue Sound	0	0	0	0.97	0	2
CWAK	1,522	1,399	1,651	0.00	1,522	76
Upper Yukon	0	0	0	0.98	0	1
Northern Dist.	0	0	0	0.98	0	1
Northwestern Dist.	0	0	0	0.98	0	0
South Peninsula	0	0	0	0.98	0	0
Chignik/Kodiak	0	0	0	0.98	0	1
East of Kodiak	0	0	0	0.98	0	0
Total	1,522				1,522	

Note: Harvest is the number of chum salmon reported to have been harvested and n is the final number of samples used in genetic analyses.

^a Adjusted median; 1.00 times unadjusted median.

Appendix C221.—Subdistrict 6 Unalakleet, Commercial, Norton Sound-Port Clarence Area, Arctic-Yukon-Kuskokwim Region 2008 temporal stratum 2. Reporting group-specific harvest estimates including adjusted median, 90% credibility interval, the probability that reporting group estimate is equal to zero ($P = 0$), mean, and SD.

Stratum 2 (7/17–7/29; Harvest = 9,554; n = 399)						
Reporting Group	Median ^a	90% CI		$P = 0$	Mean	SD
		5%	95%			
Asia	0	0	7	0.92	2	9
Kotzebue Sound	447	0	958	0.25	423	328
CWAK	9,107	8,228	10,068	0.00	9,128	559
Upper Yukon	0	0	0	0.96	1	5
Northern Dist.	0	0	0	0.96	0	4
Northwestern Dist.	0	0	0	0.97	0	3
South Peninsula	0	0	0	0.96	0	3
Chignik/Kodiak	0	0	0	0.96	0	4
East of Kodiak	0	0	0	0.95	1	5
Total	9,554				9,555	

Note: Harvest is the number of chum salmon reported to have been harvested and n is the final number of samples used in genetic analyses.

^a Adjusted median; 1.00 times unadjusted median.

Appendix C222.—Subdistrict 6 Unalakleet, Commercial, Norton Sound-Port Clarence Area, Arctic-Yukon-Kuskokwim Region 2008 temporal stratum 3. Reporting group-specific harvest estimates including adjusted median, 90% credibility interval, the probability that reporting group estimate is equal to zero ($P = 0$), mean, and SD.

Stratum 3 (7/30–9/12; Harvest = 6,572; n = 263)						
Reporting Group	Median ^a	90% CI		$P = 0$	Mean	SD
		5%	95%			
Asia	0	0	0	0.97	0	2
Kotzebue Sound	0	0	255	0.54	40	97
CWAK	6,572	5,961	7,087	0.00	6,517	342
Upper Yukon	0	0	97	0.78	13	42
Northern Dist.	0	0	1	0.95	1	6
Northwestern Dist.	0	0	0	0.97	0	3
South Peninsula	0	0	0	0.97	0	2
Chignik/Kodiak	0	0	0	0.97	0	2
East of Kodiak	0	0	0	0.97	0	3
Total	6,572				6,571	

Note: Harvest is the number of chum salmon reported to have been harvested and n is the final number of samples used in genetic analyses.

^a Adjusted median; 1.01 times unadjusted median.

Appendix C223.—Subdistrict 6 Unalakleet, Commercial, Norton Sound-Port Clarence Area, Arctic-Yukon-Kuskokwim Region 2009 temporal stratum 1. Reporting group-specific harvest estimates including adjusted median, 90% credibility interval, the probability that reporting group estimate is equal to zero ($P = 0$), mean, and SD.

Stratum 1 (7/8–7/15; Harvest = 4,942; n = 300)						
Reporting Group	Median ^a	90% CI		$P = 0$	Mean	SD
		5%	95%			
Asia	0	0	2	0.94	3	17
Kotzebue Sound	0	0	1	0.94	2	13
CWAK	4,942	4,541	5,353	0.00	4,937	247
Upper Yukon	0	0	0	0.96	1	5
Northern Dist.	0	0	0	0.97	0	3
Northwestern Dist.	0	0	0	0.97	0	2
South Peninsula	0	0	0	0.97	0	2
Chignik/Kodiak	0	0	0	0.97	0	2
East of Kodiak	0	0	0	0.97	0	2
Total	4,942				4,943	

Note: Harvest is the number of chum salmon reported to have been harvested and n is the final number of samples used in genetic analyses.

^a Adjusted median; 1.00 times unadjusted median.

Appendix C224.—Subdistrict 6 Unalakleet, Commercial, Norton Sound-Port Clarence Area, Arctic-Yukon-Kuskokwim Region 2009 temporal stratum 2. Reporting group-specific harvest estimates including adjusted median, 90% credibility interval, the probability that reporting group estimate is equal to zero ($P = 0$), mean, and SD.

Stratum 2 (7/16–7/28; Harvest = 7,211; n = 396)						
Reporting Group	Median ^a	90% CI		$P = 0$	Mean	SD
		5%	95%			
Asia	0	0	0	0.96	0	3
Kotzebue Sound	0	0	81	0.78	14	55
CWAK	7,211	6,609	7,813	0.00	7,195	365
Upper Yukon	0	0	3	0.93	2	11
Northern Dist.	0	0	0	0.97	0	3
Northwestern Dist.	0	0	0	0.97	0	2
South Peninsula	0	0	0	0.97	0	2
Chignik/Kodiak	0	0	0	0.97	0	2
East of Kodiak	0	0	0	0.97	0	2
Total	7,211				7,211	

Note: Harvest is the number of chum salmon reported to have been harvested and n is the final number of samples used in genetic analyses.

^a Adjusted median; 1.00 times unadjusted median.

Appendix C225.—Subdistrict 6 Unalakleet, Commercial, Norton Sound-Port Clarence Area, Arctic-Yukon-Kuskokwim Region 2009 temporal stratum 3. Reporting group-specific harvest estimates including adjusted median, 90% credibility interval, the probability that reporting group estimate is equal to zero ($P = 0$), mean, and SD.

Stratum 3 (7/29–9/11; Harvest = 8,494; n = 300)						
Reporting Group	Median ^a	90% CI		$P = 0$	Mean	SD
		5%	95%			
Asia	0	0	0	0.96	0	4
Kotzebue Sound	0	0	198	0.87	23	91
CWAK	8,388	7,631	9,092	0.00	8,349	443
Upper Yukon	106	0	328	0.32	118	115
Northern Dist.	0	0	0	0.96	0	4
Northwestern Dist.	0	0	0	0.96	0	3
South Peninsula	0	0	0	0.96	0	3
Chignik/Kodiak	0	0	0	0.97	0	3
East of Kodiak	0	0	0	0.97	0	3
Total	8,494				8,490	

Note: Harvest is the number of chum salmon reported to have been harvested and n is the final number of samples used in genetic analyses.

^a Adjusted median; 1.01 times unadjusted median.

Appendix C226.—Subdistrict 6 Unalakleet, Subsistence, Norton Sound-Port Clarence Area, Arctic-Yukon-Kuskokwim Region 2007 temporal stratum 1. Reporting group-specific harvest estimates including adjusted median, 90% credibility interval, the probability that reporting group estimate is equal to zero ($P = 0$), mean, and SD.

Reporting Group	Stratum 1 (Season; Harvest = 2,094; n = 0 ^a)					
	Median ^b	90% CI		$P = 0$	Mean	SD
		5%	95%			
Asia	0	0	0	1.00	0	0
Kotzebue Sound	0	0	0	1.00	0	0
CWAK	2,094	1,767	2,457	0.00	2,094	210
Upper Yukon	0	0	0	1.00	0	0
Northern Dist.	0	0	0	1.00	0	0
Northwestern Dist.	0	0	0	1.00	0	0
South Peninsula	0	0	0	1.00	0	0
Chignik/Kodiak	0	0	0	1.00	0	0
East of Kodiak	0	0	0	1.00	0	0
Total	2,094				2,094	

Note: Harvest is the number of chum salmon reported to have been harvested and n is the final number of samples used in genetic analyses.

^a No samples collected. Assumed 100% fish harvested belong to CWAK reporting group.

^b Adjusted median; 1.00 times unadjusted median.

Appendix C227.—Subdistrict 6 Unalakleet, Subsistence, Norton Sound-Port Clarence Area, Arctic-Yukon-Kuskokwim Region 2008 temporal stratum 1. Reporting group-specific harvest estimates including adjusted median, 90% credibility interval, the probability that reporting group estimate is equal to zero ($P = 0$), mean, and SD.

Reporting Group	Stratum 1 (Season; Harvest = 2,700; n = 0 ^a)					
	Median ^b	90% CI		$P = 0$	Mean	SD
		5%	95%			
Asia	0	0	0	1.00	0	0
Kotzebue Sound	0	0	0	1.00	0	0
CWAK	2,700	2,280	3,165	0.00	2,700	270
Upper Yukon	0	0	0	1.00	0	0
Northern Dist.	0	0	0	1.00	0	0
Northwestern Dist.	0	0	0	1.00	0	0
South Peninsula	0	0	0	1.00	0	0
Chignik/Kodiak	0	0	0	1.00	0	0
East of Kodiak	0	0	0	1.00	0	0
Total	2,700				2,700	

Note: Harvest is the number of chum salmon reported to have been harvested and n is the final number of samples used in genetic analyses.

^a No samples collected. Assumed 100% fish harvested belong to CWAK reporting group.

^b Adjusted median; 1.01 times unadjusted median.

Appendix C228.—Subdistrict 6 Unalakleet, Subsistence, Norton Sound-Port Clarence Area, Arctic-Yukon-Kuskokwim Region 2009 temporal stratum 1. Reporting group-specific harvest estimates including adjusted median, 90% credibility interval, the probability that reporting group estimate is equal to zero ($P = 0$), mean, and SD.

Reporting Group	Stratum 1 (Season; Harvest = 1,500; n = 0 ^a)					
	Median ^b	90% CI		$P = 0$	Mean	SD
		5%	95%			
Asia	0	0	0	1.00	0	0
Kotzebue Sound	0	0	0	1.00	0	0
CWAK	1,500	1,269	1,759	0.00	1,501	150
Upper Yukon	0	0	0	1.00	0	0
Northern Dist.	0	0	0	1.00	0	0
Northwestern Dist.	0	0	0	1.00	0	0
South Peninsula	0	0	0	1.00	0	0
Chignik/Kodiak	0	0	0	1.00	0	0
East of Kodiak	0	0	0	1.00	0	0
Total	1,500				1,501	

Note: Harvest is the number of chum salmon reported to have been harvested and n is the final number of samples used in genetic analyses.

^a No samples collected. Assumed 100% fish harvested belong to CWAK reporting group.

^b Adjusted median; 1.00 times unadjusted median.

Appendix C229.—Subdistrict 5 Shaktoolik, Commercial, Norton Sound-Port Clarence Area, Arctic-Yukon-Kuskokwim Region 2007 temporal stratum 1. Reporting group-specific harvest estimates including adjusted median, 90% credibility interval, the probability that reporting group estimate is equal to zero ($P = 0$), mean, and SD.

Stratum 1 (7/18–7/21; Harvest = 1,294; n = 200)						
Reporting Group	Median ^a	90% CI		$P = 0$	Mean	SD
		5%	95%			
Asia	0	0	0	0.98	0	1
Kotzebue Sound	198	76	320	0.01	198	75
CWAK	1,096	949	1,252	0.00	1,095	92
Upper Yukon	0	0	0	0.96	0	3
Northern Dist.	0	0	0	0.97	0	1
Northwestern Dist.	0	0	0	0.98	0	1
South Peninsula	0	0	0	0.98	0	1
Chignik/Kodiak	0	0	0	0.98	0	1
East of Kodiak	0	0	0	0.98	0	1
Total	1,294				1,293	

Note: Harvest is the number of chum salmon reported to have been harvested and n is the final number of samples used in genetic analyses.

^a Adjusted median; 1.00 times unadjusted median.

Appendix C230.—Subdistrict 5 Shaktoolik, Commercial, Norton Sound-Port Clarence Area, Arctic-Yukon-Kuskokwim Region 2007 temporal stratum 2. Reporting group-specific harvest estimates including adjusted median, 90% credibility interval, the probability that reporting group estimate is equal to zero ($P = 0$), mean, and SD.

Reporting Group	Stratum 2 (7/22–8/2; Harvest = 2,868; n = 399)					
	Median ^a	90% CI		$P = 0$	Mean	SD
		5%	95%			
Asia	0	0	0	0.98	0	1
Kotzebue Sound	228	103	384	0.00	233	86
CWAK	2,640	2,381	2,897	0.00	2,635	157
Upper Yukon	0	0	0	0.97	0	3
Northern Dist.	0	0	0	0.98	0	1
Northwestern Dist.	0	0	0	0.98	0	1
South Peninsula	0	0	0	0.98	0	1
Chignik/Kodiak	0	0	0	0.98	0	1
East of Kodiak	0	0	0	0.98	0	1
Total	2,868				2,868	

Note: Harvest is the number of chum salmon reported to have been harvested and n is the final number of samples used in genetic analyses.

^a Adjusted median; 1.00 times unadjusted median.

Appendix C231.—Subdistrict 5 Shaktoolik, Commercial, Norton Sound-Port Clarence Area, Arctic-Yukon-Kuskokwim Region 2007 temporal stratum 3. Reporting group-specific harvest estimates including adjusted median, 90% credibility interval, the probability that reporting group estimate is equal to zero ($P = 0$), mean, and SD.

Reporting Group	Stratum 3 (8/7–8/31; Harvest = 1,914; n = 0 ^a)					
	Median ^b	90% CI		$P = 0$	Mean	SD
		5%	95%			
Asia	0	0	0	0.98	0	1
Kotzebue Sound	152	69	256	0.00	155	57
CWAK	1,762	1,588	1,933	0.00	1,758	105
Upper Yukon	0	0	0	0.97	0	2
Northern Dist.	0	0	0	0.98	0	1
Northwestern Dist.	0	0	0	0.98	0	0
South Peninsula	0	0	0	0.98	0	0
Chignik/Kodiak	0	0	0	0.98	0	0
East of Kodiak	0	0	0	0.98	0	1
Total	1,914				1,913	

Note: Harvest is the number of chum salmon reported to have been harvested and n is the final number of samples used in genetic analyses.

^a No samples collected. Stock composition estimate from temporal stratum 2, 2007, Subdistrict 5 Commercial, Norton Sound District used as proxy.

^b Adjusted median; 1.00 times unadjusted median.

Appendix C232.—Subdistrict 5 Shaktoolik, Commercial, Norton Sound-Port Clarence Area, Arctic-Yukon-Kuskokwim Region 2008 temporal stratum 1. Reporting group-specific harvest estimates including adjusted median, 90% credibility interval, the probability that reporting group estimate is equal to zero ($P = 0$), mean, and SD.

Reporting Group	Stratum 1 (7/9–7/22; Harvest = 1,816; n = 200)					
	Median ^a	90% CI		$P = 0$	Mean	SD
		5%	95%			
Asia	0	0	0	0.97	0	1
Kotzebue Sound	41	0	192	0.25	61	67
CWAK	1,768	1,562	1,923	0.00	1,746	110
Upper Yukon	0	0	0	0.97	0	2
Northern Dist.	0	0	0	0.98	0	1
Northwestern Dist.	0	0	0	0.98	0	1
South Peninsula	0	0	0	0.97	0	2
Chignik/Kodiak	0	0	1	0.95	0	3
East of Kodiak	6	0	27	0.09	9	9
Total	1,815				1,816	

Note: Harvest is the number of chum salmon reported to have been harvested and n is the final number of samples used in genetic analyses.

^a Adjusted median; 1.01 times unadjusted median.

Appendix C233.—Subdistrict 5 Shaktoolik, Commercial, Norton Sound-Port Clarence Area, Arctic-Yukon-Kuskokwim Region 2008 temporal stratum 2. Reporting group-specific harvest estimates including adjusted median, 90% credibility interval, the probability that reporting group estimate is equal to zero ($P = 0$), mean, and SD.

Stratum 2 (7/23–8/5; Harvest = 2,208; n = 344)						
Reporting Group	Median ^a	90% CI		$P = 0$	Mean	SD
		5%	95%			
Asia	0	0	5	0.89	1	3
Kotzebue Sound	0	0	37	0.80	5	18
CWAK	2,208	2,023	2,389	0.00	2,201	111
Upper Yukon	0	0	0	0.97	0	2
Northern Dist.	0	0	0	0.98	0	1
Northwestern Dist.	0	0	0	0.96	0	2
South Peninsula	0	0	0	0.98	0	1
Chignik/Kodiak	0	0	0	0.98	0	1
East of Kodiak	0	0	0	0.98	0	1
Total	2,208				2,207	

Note: Harvest is the number of chum salmon reported to have been harvested and n is the final number of samples used in genetic analyses.

^a Adjusted median; 1.00 times unadjusted median.

Appendix C234.—Subdistrict 5 Shaktoolik, Commercial, Norton Sound-Port Clarence Area, Arctic-Yukon-Kuskokwim Region 2008 temporal stratum 3. Reporting group-specific harvest estimates including adjusted median, 90% credibility interval, the probability that reporting group estimate is equal to zero ($P = 0$), mean, and SD.

Stratum 3 (8/6–9/9; Harvest = 2,018; n = 393)						
Reporting Group	Median ^a	90% CI		$P = 0$	Mean	SD
		5%	95%			
Asia	0	0	0	0.98	0	1
Kotzebue Sound	170	75	291	0.01	174	66
CWAK	1,848	1,652	2,027	0.00	1,838	114
Upper Yukon	0	0	27	0.62	6	10
Northern Dist.	0	0	0	0.98	0	1
Northwestern Dist.	0	0	0	0.98	0	1
South Peninsula	0	0	0	0.98	0	1
Chignik/Kodiak	0	0	0	0.98	0	1
East of Kodiak	0	0	0	0.98	0	1
Total	2,018				2,018	

Note: Harvest is the number of chum salmon reported to have been harvested and n is the final number of samples used in genetic analyses.

^a Adjusted median; 1.01 times unadjusted median.

Appendix C235.—Subdistrict 5 Shaktoolik, Commercial, Norton Sound-Port Clarence Area, Arctic-Yukon-Kuskokwim Region 2009 temporal stratum 1. Reporting group-specific harvest estimates including adjusted median, 90% credibility interval, the probability that reporting group estimate is equal to zero ($P = 0$), mean, and SD.

Stratum 1 (7/10–7/21; Harvest = 7,631; n = 145)						
Reporting Group	Median ^a	90% CI		$P = 0$	Mean	SD
		5%	95%			
Asia	0	0	0	0.96	1	5
Kotzebue Sound	0	0	455	0.52	86	169
CWAK	7,631	6,861	8,218	0.00	7,542	414
Upper Yukon	0	0	2	0.93	1	9
Northern Dist.	0	0	0	0.96	1	7
Northwestern Dist.	0	0	0	0.96	1	6
South Peninsula	0	0	0	0.96	1	6
Chignik/Kodiak	0	0	0	0.95	1	8
East of Kodiak	0	0	0	0.96	1	7
Total	7,631				7,635	

Note: Harvest is the number of chum salmon reported to have been harvested and n is the final number of samples used in genetic analyses.

^a Adjusted median; 1.01 times unadjusted median.

Appendix C236.—Subdistrict 5 Shaktoolik, Commercial, Norton Sound-Port Clarence Area, Arctic-Yukon-Kuskokwim Region 2009 temporal stratum 2. Reporting group-specific harvest estimates including adjusted median, 90% credibility interval, the probability that reporting group estimate is equal to zero ($P = 0$), mean, and SD.

Reporting Group	Stratum 2 (7/22–8/4; Harvest = 2,069; n = 144)					
	Median ^a	90% CI		$P = 0$	Mean	SD
		5%	95%			
Asia	0	0	0	0.97	0	2
Kotzebue Sound	0	0	0	0.95	1	9
CWAK	2,069	1,900	2,241	0.00	2,066	104
Upper Yukon	0	0	0	0.97	0	3
Northern Dist.	0	0	0	0.97	0	1
Northwestern Dist.	0	0	0	0.97	0	1
South Peninsula	0	0	0	0.97	0	1
Chignik/Kodiak	0	0	0	0.97	0	1
East of Kodiak	0	0	0	0.97	0	1
Total	2,069				2,067	

Note: Harvest is the number of chum salmon reported to have been harvested and n is the final number of samples used in genetic analyses.

^a Adjusted median; 1.00 times unadjusted median.

Appendix C237.—Subdistrict 5 Shaktoolik, Commercial, Norton Sound-Port Clarence Area, Arctic-Yukon-Kuskokwim Region 2009 temporal stratum 3. Reporting group-specific harvest estimates including adjusted median, 90% credibility interval, the probability that reporting group estimate is equal to zero ($P = 0$), mean, and SD.

Stratum 3 (8/5–9/11; Harvest = 1,241; n = 106)						
Reporting Group	Median ^a	90% CI		$P = 0$	Mean	SD
		5%	95%			
Asia	0	0	0	0.97	0	1
Kotzebue Sound	0	0	0	0.96	1	5
CWAK	1,241	1,138	1,343	0.00	1,238	63
Upper Yukon	0	0	9	0.90	2	7
Northern Dist.	0	0	0	0.97	0	1
Northwestern Dist.	0	0	0	0.98	0	1
South Peninsula	0	0	0	0.97	0	1
Chignik/Kodiak	0	0	0	0.97	0	1
East of Kodiak	0	0	0	0.97	0	1
Total	1,241				1,241	

Note: Harvest is the number of chum salmon reported to have been harvested and n is the final number of samples used in genetic analyses.

^a Adjusted median; 1.00 times unadjusted median.

Appendix C238.—Subdistrict 5 Shaktoolik, Subsistence, Norton Sound-Port Clarence Area, Arctic-Yukon-Kuskokwim Region 2007 temporal stratum 1. Reporting group-specific harvest estimates including adjusted median, 90% credibility interval, the probability that reporting group estimate is equal to zero ($P = 0$), mean, and SD.

Reporting Group	Stratum 1 (Season; Harvest = 465; n = 0 ^a)					
	Median ^b	90% CI		$P = 0$	Mean	SD
		5%	95%			
Asia	0	0	0	1.00	0	0
Kotzebue Sound	0	0	0	1.00	0	0
CWAK	465	393	545	0.00	465	47
Upper Yukon	0	0	0	1.00	0	0
Northern Dist.	0	0	0	1.00	0	0
Northwestern Dist.	0	0	0	1.00	0	0
South Peninsula	0	0	0	1.00	0	0
Chignik/Kodiak	0	0	0	1.00	0	0
East of Kodiak	0	0	0	1.00	0	0
Total	465				465	

Note: Harvest is the number of chum salmon reported to have been harvested and n is the final number of samples used in genetic analyses.

^a Only 20 samples collected; therefore, stock composition not estimated with these samples. Assumed 100% fish harvested belong to CWAK reporting group.

^b Adjusted median; 1.00 times unadjusted median.

Appendix C239.—Subdistrict 5 Shaktoolik, Subsistence, Norton Sound-Port Clarence Area, Arctic-Yukon-Kuskokwim Region 2008 temporal stratum 1. Reporting group-specific harvest estimates including adjusted median, 90% credibility interval, the probability that reporting group estimate is equal to zero ($P = 0$), mean, and SD.

Reporting Group	Stratum 1 (Season; Harvest = 200; n = 0 ^a)					
	Median ^b	90% CI		$P = 0$	Mean	SD
		5%	95%			
Asia	0	0	0	1.00	0	0
Kotzebue Sound	0	0	0	1.00	0	0
CWAK	200	169	235	0.00	200	20
Upper Yukon	0	0	0	1.00	0	0
Northern Dist.	0	0	0	1.00	0	0
Northwestern Dist.	0	0	0	1.00	0	0
South Peninsula	0	0	0	1.00	0	0
Chignik/Kodiak	0	0	0	1.00	0	0
East of Kodiak	0	0	0	1.00	0	0
Total	200				200	

Note: Harvest is the number of chum salmon reported to have been harvested and n is the final number of samples used in genetic analyses.

^a No samples collected. Assumed 100% fish harvested belong to CWAK reporting group.

^b Adjusted median; 1.01 times unadjusted median.

Appendix C240.—Subdistrict 5 Shaktoolik, Subsistence, Norton Sound-Port Clarence Area, Arctic-Yukon-Kuskokwim Region 2009 temporal stratum 1. Reporting group-specific harvest estimates including adjusted median, 90% credibility interval, the probability that reporting group estimate is equal to zero ($P = 0$), mean, and SD.

Reporting Group	Stratum 1 (Season; Harvest = 400; n = 0 ^a)					
	Median ^b	90% CI		$P = 0$	Mean	SD
		5%	95%			
Asia	0	0	0	1.00	0	0
Kotzebue Sound	0	0	0	1.00	0	0
CWAK	400	338	469	0.00	400	40
Upper Yukon	0	0	0	1.00	0	0
Northern Dist.	0	0	0	1.00	0	0
Northwestern Dist.	0	0	0	1.00	0	0
South Peninsula	0	0	0	1.00	0	0
Chignik/Kodiak	0	0	0	1.00	0	0
East of Kodiak	0	0	0	1.00	0	0
Total	400				400	

Note: Harvest is the number of chum salmon reported to have been harvested and n is the final number of samples used in genetic analyses.

^a No samples collected. Assumed 100% fish harvested belong to CWAK reporting group.

^b Adjusted median; 1.01 times unadjusted median.

Appendix C241.—Subdistrict 3 Moses Point, Commercial, Norton Sound-Port Clarence Area, Arctic-Yukon-Kuskokwim Region 2007 temporal stratum 1. Reporting group-specific harvest estimates including adjusted median, 90% credibility interval, the probability that reporting group estimate is equal to zero ($P = 0$), mean, and SD.

Stratum 1 (7/10–8/29; Harvest = 4,567; n = 393)						
Reporting Group	Median ^a	90% CI		$P = 0$	Mean	SD
		5%	95%			
Asia	0	0	0	0.97	0	1
Kotzebue Sound	247	40	452	0.03	249	120
CWAK	4,320	3,921	4,732	0.00	4,316	247
Upper Yukon	0	0	1	0.94	1	4
Northern Dist.	0	0	0	0.97	0	2
Northwestern Dist.	0	0	0	0.97	0	1
South Peninsula	0	0	0	0.97	0	1
Chignik/Kodiak	0	0	0	0.97	0	1
East of Kodiak	0	0	0	0.98	0	1
Total	4,567				4,566	

Note: Harvest is the number of chum salmon reported to have been harvested and n is the final number of samples used in genetic analyses.

^a Adjusted median; 1.00 times unadjusted median.

Appendix C242.—Subdistrict 3 Moses Point, Commercial, Norton Sound-Port Clarence Area, Arctic-Yukon-Kuskokwim Region 2008 temporal stratum 1. Reporting group-specific harvest estimates including adjusted median, 90% credibility interval, the probability that reporting group estimate is equal to zero ($P = 0$), mean, and SD.

Reporting Group	Stratum 1 (7/5–8/30; Harvest = 304; n = 197)					
	Median ^a	90% CI		$P = 0$	Mean	SD
		5%	95%			
Asia	0	0	0	0.99	0	0
Kotzebue Sound	0	0	10	0.78	1	4
CWAK	304	277	329	0.00	302	16
Upper Yukon	0	0	0	0.98	0	1
Northern Dist.	0	0	0	0.99	0	0
Northwestern Dist.	0	0	0	0.99	0	0
South Peninsula	0	0	0	0.99	0	0
Chignik/Kodiak	0	0	0	0.99	0	0
East of Kodiak	0	0	0	0.99	0	0
Total	304				303	

Note: Harvest is the number of chum salmon reported to have been harvested and n is the final number of samples used in genetic analyses.

^a Adjusted median; 1.01 times unadjusted median.

Appendix C243.—Subdistrict 3 Moses Point, Commercial, Norton Sound-Port Clarence Area, Arctic-Yukon-Kuskokwim Region 2009 temporal stratum 1. Reporting group-specific harvest estimates including adjusted median, 90% credibility interval, the probability that reporting group estimate is equal to zero ($P = 0$), mean, and SD.

Reporting Group	Stratum 1 (8/7–9/4; Harvest = 597; n = 0 ^a)					
	Median ^b	90% CI		$P = 0$	Mean	SD
		5%	95%			
Asia	0	0	0	0.99	0	0
Kotzebue Sound	30	5	56	0.03	31	15
CWAK	567	515	620	0.00	566	32
Upper Yukon	0	0	0	0.97	0	1
Northern Dist.	0	0	0	0.99	0	0
Northwestern Dist.	0	0	0	0.99	0	0
South Peninsula	0	0	0	0.99	0	0
Chignik/Kodiak	0	0	0	0.99	0	0
East of Kodiak	0	0	0	0.99	0	0
Total	597				597	

Note: Harvest is the number of chum salmon reported to have been harvested and n is the final number of samples used in genetic analyses.

^a No samples collected. Average stock composition estimate from temporal stratum 1, 2007 and 2008, Subdistrict 3 Commercial, Norton Sound District used as proxy.

^b Adjusted median; 1.00 times unadjusted median.

Appendix C244.—Subdistrict 3 Moses Point, Subsistence, Norton Sound-Port Clarence Area, Arctic-Yukon-Kuskokwim Region 2007 temporal stratum 1. Reporting group-specific harvest estimates including adjusted median, 90% credibility interval, the probability that reporting group estimate is equal to zero ($P = 0$), mean, and SD.

Reporting Group	Stratum 1 (6/25–7/11; Harvest = 2,334; n = 126)					
	Median ^a	90% CI		$P = 0$	Mean	SD
		5%	95%			
Asia	0	0	0	0.97	0	2
Kotzebue Sound	0	0	0	0.95	1	7
CWAK	2,334	1,970	2,728	0.00	2,331	232
Upper Yukon	0	0	0	0.96	0	4
Northern Dist.	0	0	0	0.97	0	2
Northwestern Dist.	0	0	0	0.97	0	2
South Peninsula	0	0	0	0.97	0	2
Chignik/Kodiak	0	0	0	0.97	0	2
East of Kodiak	0	0	0	0.97	0	2
Total	2,334				2,332	

Note: Harvest is the number of chum salmon reported to have been harvested and n is the final number of samples used in genetic analyses.

^a Adjusted median; 1.01 times unadjusted median.

Appendix C245.–Subdistrict 3 Moses Point, Subsistence, Norton Sound-Port Clarence Area, Arctic-Yukon-Kuskokwim Region 2008 temporal stratum 1. Reporting group-specific harvest estimates including adjusted median, 90% credibility interval, the probability that reporting group estimate is equal to zero ($P = 0$), mean, and SD.

Reporting Group	Stratum 1 (Season; Harvest = 1,284; n = 0 ^a)					
	Median ^b	90% CI		$P = 0$	Mean	SD
		5%	95%			
Asia	0	0	0	0.97	0	1
Kotzebue Sound	0	0	0	0.96	0	4
CWAK	1,284	1,084	1,504	0.00	1,283	128
Upper Yukon	0	0	0	0.97	0	2
Northern Dist.	0	0	0	0.98	0	1
Northwestern Dist.	0	0	0	0.98	0	1
South Peninsula	0	0	0	0.98	0	1
Chignik/Kodiak	0	0	0	0.98	0	1
East of Kodiak	0	0	0	0.97	0	1
Total	1,284				1,283	

Note: Harvest is the number of chum salmon reported to have been harvested and n is the final number of samples used in genetic analyses.

^a No samples collected. Stock composition estimate from temporal stratum 1, 2007, Subdistrict 3 Subsistence, Norton Sound District used as proxy.

^b Adjusted median; 1.01 times unadjusted median.

Appendix C246.—Subdistrict 3 Moses Point, Subsistence, Norton Sound-Port Clarence Area, Arctic-Yukon-Kuskokwim Region 2009 temporal stratum 1. Reporting group-specific harvest estimates including adjusted median, 90% credibility interval, the probability that reporting group estimate is equal to zero ($P = 0$), mean, and SD.

Reporting Group	Stratum 1 (Season; Harvest = 600; n = 0 ^a)					
	Median ^b	90% CI		$P = 0$	Mean	SD
		5%	95%			
Asia	0	0	0	0.98	0	1
Kotzebue Sound	0	0	0	0.97	0	2
CWAK	600	506	702	0.00	599	60
Upper Yukon	0	0	0	0.98	0	1
Northern Dist.	0	0	0	0.98	0	0
Northwestern Dist.	0	0	0	0.98	0	0
South Peninsula	0	0	0	0.98	0	0
Chignik/Kodiak	0	0	0	0.98	0	0
East of Kodiak	0	0	0	0.98	0	0
Total	600				599	

Note: Harvest is the number of chum salmon reported to have been harvested and n is the final number of samples used in genetic analyses.

^a No samples collected. Stock composition estimate from temporal stratum 1, 2007, Subdistrict 3 Subsistence, Norton Sound District used as proxy.

^b Adjusted median; 1.01 times unadjusted median.

Appendix C247.—Subdistrict 2 Golovin Bay, Commercial, Norton Sound-Port Clarence Area, Arctic-Yukon-Kuskokwim Region 2008 temporal stratum 1. Reporting group-specific harvest estimates including adjusted median, 90% credibility interval, the probability that reporting group estimate is equal to zero ($P = 0$), mean, and SD.

Reporting Group	Stratum 1 (7/1–8/22; Harvest = 623; n = 214)					
	Median ^a	90% CI		$P = 0$	Mean	SD
		5%	95%			
Asia	0	0	0	0.98	0	0
Kotzebue Sound	0	0	0	0.96	0	2
CWAK	623	572	675	0.00	622	31
Upper Yukon	0	0	0	0.96	0	2
Northern Dist.	0	0	0	0.98	0	1
Northwestern Dist.	0	0	0	0.99	0	0
South Peninsula	0	0	0	1.00	0	0
Chignik/Kodiak	0	0	0	0.99	0	0
East of Kodiak	0	0	0	0.99	0	0
Total	623				622	

Note: Harvest is the number of chum salmon reported to have been harvested and n is the final number of samples used in genetic analyses.

^a Adjusted median; 1.00 times unadjusted median.

Appendix C248.—Subdistrict 2 Golovin Bay, Commercial, Norton Sound-Port Clarence Area, Arctic-Yukon-Kuskokwim Region 2009 temporal stratum 1. Reporting group-specific harvest estimates including adjusted median, 90% credibility interval, the probability that reporting group estimate is equal to zero ($P = 0$), mean, and SD.

Reporting Group	Stratum 1 (8/7–8/26; Harvest = 87; n = 0 ^a)					
	Median ^b	90% CI		$P = 0$	Mean	SD
		5%	95%			
Asia	0	0	0	1.00	0	0
Kotzebue Sound	0	0	0	0.98	0	0
CWAK	87	80	94	0.00	87	4
Upper Yukon	0	0	0	0.98	0	0
Northern Dist.	0	0	0	0.99	0	0
Northwestern Dist.	0	0	0	1.00	0	0
South Peninsula	0	0	0	1.00	0	0
Chignik/Kodiak	0	0	0	1.00	0	0
East of Kodiak	0	0	0	1.00	0	0
Total	87				87	

Note: Harvest is the number of chum salmon reported to have been harvested and n is the final number of samples used in genetic analyses.

^a No samples collected. Stock composition estimate from temporal stratum 1, 2008, Subdistrict 2 Commercial, Norton Sound District used as proxy.

^b Adjusted median; 1.00 times unadjusted median.

Appendix C249.—Subdistrict 2 Golovin Bay, Subsistence, Norton Sound-Port Clarence Area, Arctic-Yukon-Kuskokwim Region 2007 temporal stratum 1. Reporting group-specific harvest estimates including adjusted median, 90% credibility interval, the probability that reporting group estimate is equal to zero ($P = 0$), mean, and SD.

Reporting Group	Stratum 1 (Season; Harvest = 4,217; n = 0 ^a)					
	Median ^b	90% CI		$P = 0$	Mean	SD
		5%	95%			
Asia	0	0	0	1.00	0	0
Kotzebue Sound	0	0	0	1.00	0	0
CWAK	4,217	3,558	4,940	0.00	4,216	422
Upper Yukon	0	0	0	1.00	0	0
Northern Dist.	0	0	0	1.00	0	0
Northwestern Dist.	0	0	0	1.00	0	0
South Peninsula	0	0	0	1.00	0	0
Chignik/Kodiak	0	0	0	1.00	0	0
East of Kodiak	0	0	0	1.00	0	0
Total	4,217				4,216	

Note: Harvest is the number of chum salmon reported to have been harvested and n is the final number of samples used in genetic analyses.

^a No samples collected. Assumed 100% fish harvested belong to CWAK reporting group.

^b Adjusted median; 1.00 times unadjusted median.

Appendix C250.—Subdistrict 2 Golovin Bay, Subsistence, Norton Sound-Port Clarence Area, Arctic-Yukon-Kuskokwim Region 2008 temporal stratum 1. Reporting group-specific harvest estimates including adjusted median, 90% credibility interval, the probability that reporting group estimate is equal to zero ($P = 0$), mean, and SD.

Reporting Group	Stratum 1 (Season; Harvest = 350; n = 0 ^a)					
	Median ^b	90% CI		$P = 0$	Mean	SD
		5%	95%			
Asia	0	0	0	1.00	0	0
Kotzebue Sound	0	0	0	1.00	0	0
CWAK	350	295	410	0.00	350	35
Upper Yukon	0	0	0	1.00	0	0
Northern Dist.	0	0	0	1.00	0	0
Northwestern Dist.	0	0	0	1.00	0	0
South Peninsula	0	0	0	1.00	0	0
Chignik/Kodiak	0	0	0	1.00	0	0
East of Kodiak	0	0	0	1.00	0	0
Total	350				350	

Note: Harvest is the number of chum salmon reported to have been harvested and n is the final number of samples used in genetic analyses.

^a No samples collected. Assumed 100% fish harvested belong to CWAK reporting group.

^b Adjusted median; 1.01 times unadjusted median.

Appendix C251.–Subdistrict 2 Golovin Bay, Subsistence, Norton Sound-Port Clarence Area, Arctic-Yukon-Kuskokwim Region 2009 temporal stratum 1. Reporting group-specific harvest estimates including adjusted median, 90% credibility interval, the probability that reporting group estimate is equal to zero ($P = 0$), mean, and SD.

Reporting Group	Stratum 1 (Season; Harvest = 1,694; n = 0 ^a)					
	Median ^b	90% CI		$P = 0$	Mean	SD
		5%	95%			
Asia	0	0	0	1.00	0	0
Kotzebue Sound	0	0	0	1.00	0	0
CWAK	1,694	1,432	1,986	0.00	1,694	169
Upper Yukon	0	0	0	1.00	0	0
Northern Dist.	0	0	0	1.00	0	0
Northwestern Dist.	0	0	0	1.00	0	0
South Peninsula	0	0	0	1.00	0	0
Chignik/Kodiak	0	0	0	1.00	0	0
East of Kodiak	0	0	0	1.00	0	0
Total	1,694				1,694	

Note: Harvest is the number of chum salmon reported to have been harvested and n is the final number of samples used in genetic analyses.

^a No samples collected. Assumed 100% fish harvested belong to CWAK reporting group.

^b Adjusted median; 1.01 times unadjusted median.

Appendix C252.—Stebbins area, Subsistence, Norton Sound-Port Clarence Area, Arctic-Yukon-Kuskokwim Region 2007 temporal stratum 1. Reporting group-specific harvest estimates including adjusted median, 90% credibility interval, the probability that reporting group estimate is equal to zero ($P = 0$), mean, and SD.

Stratum 1 (Season; Harvest = 4,980; n = 380)						
Reporting Group	Median ^a	90% CI		$P = 0$	Mean	SD
		5%	95%			
Asia	0	0	0	0.96	0	2
Kotzebue Sound	0	0	46	0.83	6	26
CWAK	4,953	4,154	5,781	0.00	4,926	497
Upper Yukon	27	0	169	0.24	46	58
Northern Dist.	0	0	0	0.97	0	2
Northwestern Dist.	0	0	0	0.97	0	1
South Peninsula	0	0	0	0.97	0	1
Chignik/Kodiak	0	0	0	0.97	0	1
East of Kodiak	0	0	1	0.93	0	2
Total	4,980				4,978	

Note: Harvest is the number of chum salmon reported to have been harvested and n is the final number of samples used in genetic analyses.

^a Adjusted median; 1.01 times unadjusted median.

Appendix C253.—Stebbins area, Subsistence, Norton Sound-Port Clarence Area, Arctic-Yukon-Kuskokwim Region 2008 temporal stratum 1. Reporting group-specific harvest estimates including adjusted median, 90% credibility interval, the probability that reporting group estimate is equal to zero ($P = 0$), mean, and SD.

Reporting Group	Stratum 1 (Season; Harvest = 4,116 ^a ; n = 95)					
	Median ^b	90% CI		$P = 0$	Mean	SD
		5%	95%			
Asia	0	0	0	0.96	1	6
Kotzebue Sound	0	0	1	0.95	2	16
CWAK	4,116	2,128	6,930	0.00	4,096	1,514
Upper Yukon	0	0	57	0.86	9	36
Northern Dist.	0	0	0	0.96	0	5
Northwestern Dist.	0	0	0	0.96	0	5
South Peninsula	0	0	0	0.96	0	4
Chignik/Kodiak	0	0	0	0.96	0	5
East of Kodiak	0	0	0	0.96	0	5
Total	4,116				4,108	

Note: Harvest is the number of chum salmon reported to have been harvested and n is the final number of samples used in genetic analyses.

^a No subsistence survey conducted, harvest for season estimated as average harvest between 1994 and 2011 and assumed CV of 0.58.

^b Adjusted median; 1.07 times unadjusted median.

Appendix C254.–Stebbins area, Subsistence, Norton Sound-Port Clarence Area, Arctic-Yukon-Kuskokwim Region 2009 temporal stratum 1. Reporting group-specific harvest estimates including adjusted median, 90% credibility interval, the probability that reporting group estimate is equal to zero ($P = 0$), mean, and SD.

Reporting Group	Stratum 1 (Season; Harvest = 1,461 ^a ; n = 0 ^b)					
	Median ^c	90% CI		$P = 0$	Mean	SD
		5%	95%			
Asia	0	0	0	0.96	0	1
Kotzebue Sound	0	0	11	0.84	2	6
CWAK	1,454	1,222	1,700	0.00	1,448	145
Upper Yukon	7	0	40	0.23	11	14
Northern Dist.	0	0	0	0.97	0	1
Northwestern Dist.	0	0	0	0.97	0	0
South Peninsula	0	0	0	0.97	0	0
Chignik/Kodiak	0	0	0	0.97	0	0
East of Kodiak	0	0	0	0.95	0	1
Total	1,461				1,461	

Note: Harvest is the number of chum salmon reported to have been harvested and n is the final number of samples used in genetic analyses.

^a Subsistence harvest survey conducted but data were not available to be included in WASSIP sampling report (Eggers et al. 2011).

^b No samples collected. Average stock composition estimate from temporal stratum 1, 2007 and 2008, Stebbins area Subsistence, Norton Sound District used as proxy.

^c Adjusted median; 1.01 times unadjusted median.

Appendix C255.—St. Michael area, Subsistence, Norton Sound-Port Clarence Area, Arctic-Yukon-Kuskokwim Region 2007 temporal stratum
 1. Reporting group-specific harvest estimates including adjusted median, 90% credibility interval, the probability that reporting group estimate is equal to zero ($P = 0$), mean, and SD.

Reporting Group	Stratum 1 (Season; Harvest = 2,119; n = 274)					
	Median ^a	90% CI		$P = 0$	Mean	SD
		5%	95%			
Asia	0	0	0	0.95	0	2
Kotzebue Sound	0	0	21	0.82	4	15
CWAK	2,119	1,781	2,477	0.00	2,112	212
Upper Yukon	0	0	24	0.73	4	10
Northern Dist.	0	0	0	0.97	0	1
Northwestern Dist.	0	0	0	0.98	0	1
South Peninsula	0	0	0	0.98	0	1
Chignik/Kodiak	0	0	0	0.98	0	1
East of Kodiak	0	0	0	0.98	0	1
Total	2,119				2,120	

Note: Harvest is the number of chum salmon reported to have been harvested and n is the final number of samples used in genetic analyses.

^a Adjusted median; 1.01 times unadjusted median.

Appendix C256.—St. Michael area, Subsistence, Norton Sound-Port Clarence Area, Arctic-Yukon-Kuskokwim Region 2008 temporal stratum
1. Reporting group-specific harvest estimates including adjusted median, 90% credibility interval, the probability that reporting group estimate is equal to zero ($P = 0$), mean, and SD.

Reporting Group	Stratum 1 (Season; Harvest = 2,845 ^a ; n = 160)					
	Median ^b	90% CI		$P = 0$	Mean	SD
		5%	95%			
Asia	0	0	0	0.97	0	2
Kotzebue Sound	0	0	12	0.92	5	32
CWAK	2,845	1,013	5,974	0.00	2,845	1,656
Upper Yukon	0	0	0	0.95	1	11
Northern Dist.	0	0	0	0.97	0	3
Northwestern Dist.	0	0	0	0.97	0	2
South Peninsula	0	0	0	0.97	0	2
Chignik/Kodiak	0	0	0	0.97	0	2
East of Kodiak	0	0	0	0.97	0	2
Total	2,845				2,851	

Note: Harvest is the number of chum salmon reported to have been harvested and n is the final number of samples used in genetic analyses.

^a No subsistence survey conducted, harvest for season estimated as average harvest between 1994 and 2011 and assumed CV of 0.37.

^b Adjusted median; 1.16 times unadjusted median.

Appendix C257.—St. Michael area, Subsistence, Norton Sound-Port Clarence Area, Arctic-Yukon-Kuskokwim Region 2009 temporal stratum 1. Reporting group-specific harvest estimates including adjusted median, 90% credibility interval, the probability that reporting group estimate is equal to zero ($P = 0$), mean, and SD.

Reporting Group	Stratum 1 (Season; Harvest = 921 ^a ; n = 0 ^b)					
	Median ^c	90% CI		$P = 0$	Mean	SD
		5%	95%			
Asia	0	0	0	0.96	0	1
Kotzebue Sound	0	0	11	0.81	2	5
CWAK	921	775	1,077	0.00	918	92
Upper Yukon	0	0	7	0.75	1	3
Northern Dist.	0	0	0	0.97	0	0
Northwestern Dist.	0	0	0	0.98	0	0
South Peninsula	0	0	0	0.98	0	0
Chignik/Kodiak	0	0	0	0.98	0	0
East of Kodiak	0	0	0	0.98	0	0
Total	921				921	

Note: Harvest is the number of chum salmon reported to have been harvested and n is the final number of samples used in genetic analyses.

^a Subsistence harvest survey conducted but data were not available to be included in WASSIP sampling report (Eggers et al. 2011).

^b No samples collected. Average stock composition estimate from temporal stratum 1, 2007 and 2008, St. Michael area Subsistence, Norton Sound District used as proxy. Sample size rather than harvest was used to weight stock compositions because subsistence harvest was not available for 2008.

^c Adjusted median; 1.01 times unadjusted median.

Appendix C258.—Nome area, Subsistence, Norton Sound-Port Clarence Area, Arctic-Yukon-Kuskokwim Region 2007 temporal stratum 1. Reporting group-specific harvest estimates including adjusted median, 90% credibility interval, the probability that reporting group estimate is equal to zero ($P = 0$), mean, and SD.

Stratum 1 (6/29–7/15; Harvest = 2,938; n = 166)						
Reporting Group	Median ^a	90% CI		$P = 0$	Mean	SD
		5%	95%			
Asia	0	0	0	0.97	0	2
Kotzebue Sound	3	0	128	0.36	25	48
CWAK	2,935	2,452	3,418	0.00	2,910	295
Upper Yukon	0	0	0	0.96	0	3
Northern Dist.	0	0	0	0.97	0	3
Northwestern Dist.	0	0	0	0.97	0	2
South Peninsula	0	0	0	0.97	0	2
Chignik/Kodiak	0	0	0	0.97	0	2
East of Kodiak	0	0	0	0.97	0	2
Total	2,938				2,935	

Note: Harvest is the number of chum salmon reported to have been harvested and n is the final number of samples used in genetic analyses.

^a Adjusted median; 1.01 times unadjusted median.

Appendix C259.— Nome area, Subsistence, Norton Sound-Port Clarence Area, Arctic-Yukon-Kuskokwim Region 2008 temporal stratum 1. Reporting group-specific harvest estimates including adjusted median, 90% credibility interval, the probability that reporting group estimate is equal to zero ($P = 0$), mean, and SD.

Reporting Group	Stratum 1 (7/6–7/6; Harvest = 739; n = 0 ^a)					
	Median ^b	90% CI		$P = 0$	Mean	SD
		5%	95%			
Asia	0	0	0	0.98	0	1
Kotzebue Sound	1	0	32	0.47	6	12
CWAK	738	616	860	0.00	733	74
Upper Yukon	0	0	0	0.98	0	1
Northern Dist.	0	0	0	0.98	0	1
Northwestern Dist.	0	0	0	0.98	0	0
South Peninsula	0	0	0	0.98	0	0
Chignik/Kodiak	0	0	0	0.98	0	0
East of Kodiak	0	0	0	0.98	0	0
Total	739				739	

Note: Harvest is the number of chum salmon reported to have been harvested and n is the final number of samples used in genetic analyses.

^a Only 12 samples collected; therefore, stock composition not estimated with these samples. Stock composition estimate from temporal stratum 1, 2007, Nome area Subsistence, Norton Sound District used as proxy.

^b Adjusted median; 1.01 times unadjusted median.

Appendix C260.– Nome area, Subsistence, Norton Sound-Port Clarence Area, Arctic-Yukon-Kuskokwim Region 2009 temporal stratum 1. Reporting group-specific harvest estimates including adjusted median, 90% credibility interval, the probability that reporting group estimate is equal to zero ($P = 0$), mean, and SD.

Reporting Group	Stratum 1 (7/9–7/9; Harvest = 387; n = 0 ^a)					
	Median ^b	90% CI		$P = 0$	Mean	SD
		5%	95%			
Asia	0	0	0	0.99	0	0
Kotzebue Sound	0	0	17	0.53	3	6
CWAK	387	323	450	0.00	383	39
Upper Yukon	0	0	0	0.98	0	0
Northern Dist.	0	0	0	0.99	0	0
Northwestern Dist.	0	0	0	0.99	0	0
South Peninsula	0	0	0	0.99	0	0
Chignik/Kodiak	0	0	0	0.99	0	0
East of Kodiak	0	0	0	0.99	0	0
Total	387				386	

Note: Harvest is the number of chum salmon reported to have been harvested and n is the final number of samples used in genetic analyses.

^a Only 5 samples collected; therefore, stock composition not estimated with these samples. Stock composition estimate from temporal stratum 1, 2007, Nome area Subsistence, Norton Sound District used as proxy.

^b Adjusted median; 1.01 times unadjusted median.

Appendix C261.–Port Clarence District, Subsistence and Commercial, Norton Sound-Port Clarence Area, Arctic-Yukon-Kuskokwim Region 2007 temporal stratum 1. Reporting group-specific harvest estimates including adjusted median, 90% credibility interval, the probability that reporting group estimate is equal to zero ($P = 0$), mean, and SD.

Reporting Group	Stratum 1 (Season; Harvest = 7,637; n = 361)					
	Median ^a	90% CI		$P = 0$	Mean	SD
		5%	95%			
Asia	0	0	0	0.97	0	2
Kotzebue Sound	512	138	957	0.00	525	249
CWAK	7,125	5,939	8,404	0.00	7,111	751
Upper Yukon	0	0	0	0.96	0	5
Northern Dist.	0	0	0	0.96	0	4
Northwestern Dist.	0	0	0	0.97	0	2
South Peninsula	0	0	0	0.97	0	2
Chignik/Kodiak	0	0	0	0.97	0	2
East of Kodiak	0	0	0	0.97	0	2
Total	7,637				7,636	

Note: Harvest is the number of chum salmon reported to have been harvested and n is the final number of samples used in genetic analyses.

^a Adjusted median; 1.01 times unadjusted median.

Appendix C262.—Port Clarence District, Subsistence and Commercial, Norton Sound-Port Clarence Area, Arctic-Yukon-Kuskokwim Region 2008 temporal stratum 1. Reporting group-specific harvest estimates including adjusted median, 90% credibility interval, the probability that reporting group estimate is equal to zero ($P = 0$), mean, and SD.

Reporting Group	Stratum 1 (Season; Harvest = 2,773; n = 0 ^a)					
	Median ^b	90% CI		$P = 0$	Mean	SD
		5%	95%			
Asia	0	0	0	0.98	0	1
Kotzebue Sound	186	50	348	0.00	191	90
CWAK	2,587	2,158	3,058	0.00	2,584	273
Upper Yukon	0	0	0	0.97	0	2
Northern Dist.	0	0	0	0.97	0	2
Northwestern Dist.	0	0	0	0.98	0	1
South Peninsula	0	0	0	0.98	0	1
Chignik/Kodiak	0	0	0	0.98	0	1
East of Kodiak	0	0	0	0.98	0	1
Total	2,773				2,775	

Note: Harvest is the number of chum salmon reported to have been harvested and n is the final number of samples used in genetic analyses.

^a Only 40 samples collected; therefore, stock composition not estimated with these samples. Stock composition estimate from temporal stratum 1, 2007, Port Clarence District used as proxy.

^b Adjusted median; 1.01 times unadjusted median.

Appendix C263.—Port Clarence District, Subsistence and Commercial, Norton Sound-Port Clarence Area, Arctic-Yukon-Kuskokwim Region 2009 temporal stratum 1. Reporting group-specific harvest estimates including adjusted median, 90% credibility interval, the probability that reporting group estimate is equal to zero ($P = 0$), mean, and SD.

Reporting Group	Stratum 1 (Season; Harvest = 3,060; n = 0 ^a)					
	Median ^b	90% CI		$P = 0$	Mean	SD
		5%	95%			
Asia	0	0	0	0.98	0	1
Kotzebue Sound	206	55	384	0.00	210	100
CWAK	2,854	2,382	3,367	0.00	2,848	300
Upper Yukon	0	0	0	0.97	0	2
Northern Dist.	0	0	0	0.97	0	2
Northwestern Dist.	0	0	0	0.98	0	1
South Peninsula	0	0	0	0.98	0	1
Chignik/Kodiak	0	0	0	0.98	0	1
East of Kodiak	0	0	0	0.98	0	1
Total	3,060				3,058	

Note: Harvest is the number of chum salmon reported to have been harvested and n is the final number of samples used in genetic analyses.

^a No samples collected. Stock composition estimate from temporal stratum 1, 2007, Port Clarence District used as proxy.

^b Adjusted median; 1.01 times unadjusted median.

Appendix C264.–Kotzebue Sound District, Commercial, Kotzebue Area, Arctic-Yukon-Kuskokwim Region 2007 temporal stratum 1. Reporting group-specific harvest estimates including adjusted median, 90% credibility interval, the probability that reporting group estimate is equal to zero ($P = 0$), mean, and SD.

Stratum 1 (7/17–8/31; Harvest = 147,087; n = 403)						
Reporting Group	Median ^a	90% CI		$P = 0$	Mean	SD
		5%	95%			
Asia	0	0	1	0.94	4	38
Kotzebue Sound	147,087	134,925	159,253	0.00	146,801	7,392
CWAK	0	0	1,664	0.70	240	869
Upper Yukon	0	0	5	0.93	12	102
Northern Dist.	0	0	2	0.94	6	53
Northwestern Dist.	0	0	1	0.94	4	38
South Peninsula	0	0	2	0.94	5	49
Chignik/Kodiak	0	0	2	0.94	7	62
East of Kodiak	0	0	1	0.94	4	36
Total	147,087				147,083	

Note: Harvest is the number of chum salmon reported to have been harvested and n is the final number of samples used in genetic analyses.

^a Adjusted median; 1.00 times unadjusted median.

Appendix C265.—Kotzebue Sound District, Commercial, Kotzebue Area, Arctic-Yukon-Kuskokwim Region 2008 temporal stratum 1. Reporting group-specific harvest estimates including adjusted median, 90% credibility interval, the probability that reporting group estimate is equal to zero ($P = 0$), mean, and SD.

Stratum 1 (7/21–8/29; Harvest = 190,550; n = 401)						
Reporting Group	Median ^a	90% CI		$P = 0$	Mean	SD
		5%	95%			
Asia	0	0	2	0.94	5	52
Kotzebue Sound	190,550	175,118	206,328	0.00	190,269	9,524
CWAK	0	0	48	0.91	63	459
Upper Yukon	0	0	1,379	0.81	178	595
Northern Dist.	0	0	2	0.94	6	55
Northwestern Dist.	0	0	4	0.93	8	75
South Peninsula	0	0	2	0.94	5	53
Chignik/Kodiak	0	0	2	0.94	5	50
East of Kodiak	0	0	2	0.94	5	45
Total	190,550				190,544	

Note: Harvest is the number of chum salmon reported to have been harvested and n is the final number of samples used in genetic analyses.

^a Adjusted median; 1.00 times unadjusted median.

Appendix C266.—Kotzebue Sound District, Commercial, Kotzebue Area, Arctic-Yukon-Kuskokwim Region 2009 temporal stratum 1. Reporting group-specific harvest estimates including adjusted median, 90% credibility interval, the probability that reporting group estimate is equal to zero ($P = 0$), mean, and SD.

Stratum 1 (7/10–8/31; Harvest = 187,562; n = 396)						
Reporting Group	Median ^a	90% CI		$P = 0$	Mean	SD
		5%	95%			
Asia	0	0	9	0.92	15	120
Kotzebue Sound	187,562	170,994	202,571	0.00	186,479	9,607
CWAK	0	0	6,379	0.78	777	2,261
Upper Yukon	0	0	1,818	0.74	271	694
Northern Dist.	0	0	3	0.93	8	76
Northwestern Dist.	0	0	2	0.94	5	50
South Peninsula	0	0	2	0.94	5	54
Chignik/Kodiak	0	0	2	0.94	5	50
East of Kodiak	0	0	2	0.94	5	46
Total	187,562				187,570	

Note: Harvest is the number of chum salmon reported to have been harvested and n is the final number of samples used in genetic analyses.

^a Adjusted median; 1.01 times unadjusted median.

**APPENDIX D: ESTIMATED ANNUAL HARVEST AND
HARVEST RATE FOR CHUM SALMON REPORTING
GROUPS BY AREA STRATUM**

***IN WHAT FINE-SCALE FISHERY WAS A GIVEN STOCK
HARVESTED?***

Appendix D1.–Asia reporting group, 2007, all strata. Reporting group-specific harvest and harvest rate estimates by area stratum. Medians, 90% credibility intervals, and the probability that reporting group harvest estimate is equal to zero ($P = 0$) are reported.

Region	Fishery	Area stratum	Harvest				Harvest Rate (%)		
			Median ^a	90% CI		$P = 0$	Median	90% CI	
				5%	95%			5%	95%
Westward	Chignik Area	Eastern	799	533	1,098	0.0	–	–	–
		Central	2,616	2,102	3,174	0.0	–	–	–
		Chignik Bay	0	0	0	1.0	–	–	–
		Western and Perryville	6,987	5,756	8,103	0.0	–	–	–
	SEDM	SEDM	0	0	0	1.0	–	–	–
	S. AK Pen June	Shumagin Islands	37,650	34,792	40,442	0.0	–	–	–
		Dolgoi Island	535	461	610	0.0	–	–	–
		Ikatan	7,663	6,890	8,454	0.0	–	–	–
		Unimak	15,052	13,238	16,880	0.0	–	–	–
	S. AK Pen post-June	Shumagin Islands	38,713	34,941	42,461	0.0	–	–	–
		Dolgoi Island	1,467	928	2,165	0.0	–	–	–
		Ikatan	555	423	709	0.0	–	–	–
	Northern District	Bear River	28	0	271	0.4	–	–	–
		Three Hills	0	0	0	1.0	–	–	–
Central	Bristol Bay Area	Eastside districts	0	0	119	0.7	–	–	–
		Nushagak	0	0	79	0.8	–	–	–
		Togiak	0	0	29	0.8	–	–	–
AYK	Kuskokwim Area	District 5	0	0	2	0.9	–	–	–
		District 4	0	0	6	0.9	–	–	–
		District 1	0	0	1	0.9	–	–	–
		Mekoryuk	0	0	0	1.0	–	–	–
		Toksook Bay	0	0	0	1.0	–	–	–
	Yukon Area summer	Hooper Bay	0	0	0	1.0	–	–	–
		Dist. 1 Scammon Bay	0	0	0	1.0	–	–	–
		Dist. 1 Black R. only	0	0	0	1.0	–	–	–
		Dist. 1 marine	8	0	56	0.3	–	–	–
	Yukon Area fall	Dist. 1 Black R. only ^b	0	0	0	1.0	–	–	–
		Dist. 1 marine	406	190	719	0.0	–	–	–
	Norton S. – P.C. Area	Stebbins	0	0	0	1.0	–	–	–
		St. Michael	0	0	0	1.0	–	–	–
		Subdist. 6 Unalakleet	0	0	0	1.0	–	–	–
		Subdist. 5 Shaktoolik	0	0	0	1.0	–	–	–
		Subdist. 3 Moses Point	0	0	1	0.9	–	–	–
		Subdist. 2 Golovin Bay	0	0	0	1.0	–	–	–
		Subdist. 1 Nome	0	0	0	1.0	–	–	–
		Pt. Clarence	0	0	0	1.0	–	–	–
	Kotzebue Area	Kotzebue	0	0	1	0.9	–	–	–
Total			112,479						

Note: Harvest is the number of chum salmon reported to have been harvested in the area stratum.

Note: Harvest rate is the area stratum harvest divided by the total run within the WASSIP area for a given reporting group, expressed as a percent.

^a Adjusted median. Adjustment values vary by area stratum (see area stratum harvest and harvest rate Tables (7–115) for values.

^b District 1 Black River only (fall), Commercial, Yukon-Northern Area had zero harvest in 2007 and 2009.

Appendix D2.—Asia reporting group, 2008, all strata. Reporting group-specific harvest and harvest rate estimates by area stratum. Medians, 90% credibility intervals, and the probability that reporting group harvest estimate is equal to zero ($P = 0$) are reported.

Region	Fishery	Area stratum	Harvest				Harvest Rate (%)		
			Median ^a	90% CI		$P = 0$	Median	90% CI	
				5%	95%			5%	95%
Westward	Chignik Area	Eastern	313	184	777	0.00	—	—	—
		Central	2,064	1,437	2,775	0.00	—	—	—
		Chignik Bay	0	0	0	1.00	—	—	—
		Western and Perryville	14,536	12,119	17,029	0.00	—	—	—
	SEDM	SEDM	455	209	836	0.00	—	—	—
	S. AK Pen June	Shumagin Islands	47,139	43,129	51,096	0.00	—	—	—
		Dolgoi Island	856	759	952	0.00	—	—	—
		Ikatan	12,337	11,234	13,319	0.00	—	—	—
		Unimak	57,225	52,163	62,092	0.00	—	—	—
	S. AK Pen post-June	Shumagin Islands	33,159	30,078	36,130	0.00	—	—	—
		Dolgoi Island	4,152	3,172	5,219	0.00	—	—	—
		Ikatan	3,540	3,024	4,067	0.00	—	—	—
	Northern District	Bear River	0	0	0	1.00	—	—	—
		Three Hills	0	0	1	0.95	—	—	—
Central	Bristol Bay Area	Eastside districts	0	0	74	0.76	—	—	—
		Nushagak	0	0	66	0.72	—	—	—
		Togiak	0	0	41	0.78	—	—	—
AYK	Kuskokwim Area	District 5	0	0	2	0.89	—	—	—
		District 4	0	0	6	0.88	—	—	—
		District 1	0	0	7	0.88	—	—	—
		Mekoryuk	0	0	0	1.00	—	—	—
		Toksook Bay	4	0	22	0.14	—	—	—
							—	—	—
	Yukon Area summer	Hooper Bay	0	0	0	0.96	—	—	—
		Dist. 1 Scammon Bay	0	0	0	0.97	—	—	—
		Dist. 1 Black R. only	0	0	0	0.98	—	—	—
		Dist. 1 marine	0	0	0	0.96	—	—	—
	Yukon Area fall	Dist. 1 Black R. only	0	0	0	1.00	—	—	—
		Dist. 1 marine	346	163	634	0.00	—	—	—
	Norton S. – P.C. Area	Stebbins	0	0	0	0.96	—	—	—
		St. Michael	0	0	0	0.97	—	—	—
		Subdist. 6 Unalakleet	0	0	10	0.87	—	—	—
		Subdist. 5 Shaktoolik	0	0	6	0.85	—	—	—
		Subdist. 3 Moses Point	0	0	0	0.96	—	—	—
		Subdist. 2 Golovin Bay	0	0	0	0.98	—	—	—
		Subdist. 1 Nome	0	0	0	0.98	—	—	—
		Pt. Clarence	0	0	0	0.98	—	—	—
	Kotzebue Area	Kotzebue	0	0	2	0.94	—	—	—
Total			176,126						

Note: Harvest is the number of chum salmon reported to have been harvested in the area stratum.

Note: Harvest rate is the area stratum harvest divided by the total run within the WASSIP area for a given reporting group, expressed as a percent.

^a Adjusted median. Adjustment values vary by area stratum (see area stratum harvest and harvest rate Tables (7–115) for values.

Appendix D3.—Asia reporting group, 2009, all strata. Reporting group-specific harvest and harvest rate estimates by area stratum. Medians, 90% credibility intervals, and the probability that reporting group harvest estimate is equal to zero ($P = 0$) are reported.

Region	Fishery	Area stratum	Harvest				Harvest Rate (%)		
			Median ^a	90% CI		$P = 0$	Median	90% CI	
				5%	95%			5%	95%
Westward	Chignik Area	Eastern	1,092	564	1,811	0.00	—	—	—
		Central	4,803	3,602	6,142	0.00	—	—	—
		Chignik Bay	0	0	0	1.00	—	—	—
		Western and Perryville	19,973	16,101	23,857	0.00	—	—	—
	SEDM	SEDM	688	247	1,405	0.00	—	—	—
	S. AK Pen June	Shumagin Islands	147,058	135,167	158,429	0.00	—	—	—
		Dolgoi Island	1,035	911	1,163	0.00	—	—	—
		Ikatan	11,388	10,063	12,722	0.00	—	—	—
		Unimak	19,796	17,821	21,762	0.00	—	—	—
	S. AK Pen post-June	Shumagin Islands	16,473	14,296	18,816	0.00	—	—	—
		Dolgoi Island	464	196	878	0.00	—	—	—
		Ikatan	609	393	885	0.00	—	—	—
	Northern District	Bear River	0	0	0	0.96	—	—	—
		Three Hills	0	0	0	0.96	—	—	—
Central	Bristol Bay Area	Eastside districts	0	0	79	0.75	—	—	—
		Nushagak	0	0	64	0.76	—	—	—
		Togiak	0	0	18	0.81	—	—	—
AYK	Kuskokwim Area	District 5	0	0	2	0.92	—	—	—
		District 4	0	0	10	0.87	—	—	—
		District 1	0	0	7	0.88	—	—	—
		Mekoryuk	0	0	0	1.00	—	—	—
		Toksook Bay	0	0	0	0.97	—	—	—
	Yukon Area summer	Hooper Bay	0	0	0	0.97	—	—	—
		Dist. 1 Scammon Bay	0	0	0	0.98	—	—	—
		Dist. 1 Black R. only	0	0	0	0.99	—	—	—
		Dist. 1 marine	0	0	1	0.93	—	—	—
	Yukon Area fall	Dist. 1 Black R. only ^b	0	0	0	1.00	—	—	—
		Dist. 1 marine	24	15	38	0.00	—	—	—
	Norton S. – P.C. Area	Stebbins	0	0	0	0.96	—	—	—
		St. Michael	0	0	0	0.96	—	—	—
		Subdist. 6 Unalakleet	0	0	13	0.87	—	—	—
		Subdist. 5 Shaktoolik	0	0	3	0.91	—	—	—
		Subdist. 3 Moses Point	0	0	0	0.97	—	—	—
		Subdist. 2 Golovin Bay	0	0	0	1.00	—	—	—
		Subdist. 1 Nome	0	0	0	0.99	—	—	—
		Pt. Clarence	0	0	0	0.98	—	—	—
	Kotzebue Area	Kotzebue	0	0	9	0.92	—	—	—
Total			223,403						

Note: Harvest is the number of chum salmon reported to have been harvested in the area stratum.

Note: Harvest rate is the area stratum harvest divided by the total run within the WASSIP area for a given reporting group, expressed as a percent.

^a Adjusted median. Adjustment values vary by area stratum (see area stratum harvest and harvest rate Tables (7–115) for values.

^b District 1 Black River only (fall), Commercial, Yukon-Northern Area had zero harvest in 2007 and 2009.

Appendix D4.–Kotzebue Sound reporting group, 2007, all strata. Reporting group-specific harvest and harvest rate estimates by area stratum. Medians, 90% credibility intervals, and the probability that reporting group harvest estimate is equal to zero ($P = 0$) are reported.

Region	Fishery	Area stratum	Harvest				Harvest Rate (%)		
			Median ^a	90% CI		$P = 0$	Median	90% CI	
				5%	95%			5%	95%
Westward	Chignik Area	Eastern	0	0	290	0.68	0.0	0.0	0.0
		Central	0	0	3	0.93	0.0	0.0	0.0
		Chignik Bay	0	0	0	1.00	0.0	0.0	0.0
		Western and Perryville	0	0	2	0.93	0.0	0.0	0.0
	SEDM	SEDM	0	0	0	1.00	0.0	0.0	0.0
	S. AK Pen June	Shumagin Islands	1,027	378	2,053	0.00	0.1	0.0	0.4
		Dolgoi Island	0	0	32	0.55	0.0	0.0	0.0
		Ikatan	63	0	203	0.14	0.0	0.0	0.0
		Unimak	5	0	905	0.40	0.0	0.0	0.1
	S. AK Pen post-June	Shumagin Islands	284	0	1,229	0.29	0.0	0.0	0.2
		Dolgoi Island	0	0	0	0.95	0.0	0.0	0.0
		Ikatan	0	0	58	0.75	0.0	0.0	0.0
	Northern District	Bear River	0	0	37	0.90	0.0	0.0	0.0
		Three Hills	0	0	3	0.93	0.0	0.0	0.0
Central	Bristol Bay Area	Eastside districts	0	0	323	0.69	0.0	0.0	0.0
		Nushagak	0	0	263	0.71	0.0	0.0	0.0
		Togiak	0	0	81	0.76	0.0	0.0	0.0
AYK	Kuskokwim Area	District 5	0	0	30	0.81	0.0	0.0	0.0
		District 4	0	0	202	0.77	0.0	0.0	0.0
		District 1	0	0	2	0.92	0.0	0.0	0.0
		Mekoryuk	0	0	0	1.00	0.0	0.0	0.0
		Toksook Bay	0	0	0	0.97	0.0	0.0	0.0
	Yukon Area summer	Hooper Bay	0	0	0	0.96	0.0	0.0	0.0
		Dist. 1 Scammon Bay	0	0	1	0.94	0.0	0.0	0.0
		Dist. 1 Black R. only	0	0	1	0.94	0.0	0.0	0.0
		Dist. 1 marine	0	0	2	0.91	0.0	0.0	0.0
	Yukon Area fall	Dist. 1 Black R. only ^b	0	0	0	1.00	0.0	0.0	0.0
		Dist. 1 marine	342	137	909	0.00	0.0	0.0	0.1
	Norton S. – P.C. Area	Stebbins	0	0	46	0.83	0.0	0.0	0.0
		St. Michael	0	0	21	0.82	0.0	0.0	0.0
		Subdist. 6 Unalakleet	2	0	246	0.45	0.0	0.0	0.0
		Subdist. 5 Shaktoolik	579	332	863	0.00	0.1	0.0	0.2
		Subdist. 3 Moses Point	248	41	453	0.03	0.0	0.0	0.1
		Subdist. 2 Golovin Bay	0	0	0	1.00	0.0	0.0	0.0
		Subdist. 1 Nome	3	0	128	0.36	0.0	0.0	0.0
		Pt. Clarence	512	138	957	0.00	0.1	0.0	0.2
	Kotzebue Area	Kotzebue	147,087	134,925	159,253	0.00	18.0	5.5	41.3
Total			150,152						

Note: Harvest is the number of chum salmon reported to have been harvested in the area stratum.

Note: Harvest rate is the area stratum harvest divided by the total run within the WASSIP area for a given reporting group, expressed as a percent.

^a Adjusted median. Adjustment values vary by area stratum (see area stratum harvest and harvest rate Tables (7–115) for values.

^b District 1 Black River only (fall), Commercial, Yukon-Northern Area had zero harvest in 2007 and 2009.

Appendix D5.–Kotzebue Sound reporting group, 2008, all strata. Reporting group-specific harvest and harvest rate estimates by area stratum. Medians, 90% credibility intervals, and the probability that reporting group harvest estimate is equal to zero ($P = 0$) are reported.

Region	Fishery	Area stratum	Harvest				Harvest Rate (%)		
			Median ^a	90% CI		$P = 0$	Median	90% CI	
				5%	95%			5%	95%
Westward	Chignik Area	Eastern	36	0	265	0.38	0.0	0.0	0.0
		Central	0	0	2	0.94	0.0	0.0	0.0
		Chignik Bay	0	0	0	1.00	0.0	0.0	0.0
		Western and Perryville	0	0	1	0.94	0.0	0.0	0.0
	SEDM	SEDM	0	0	0	0.95	0.0	0.0	0.0
	S. AK Pen June	Shumagin Islands	1,786	417	3,379	0.00	0.1	0.0	0.5
		Dolgoi Island	32	12	60	0.00	0.0	0.0	0.0
		Ikatan	25	0	255	0.30	0.0	0.0	0.0
		Unimak	2,177	797	4,000	0.00	0.2	0.0	0.6
	S. AK Pen post-June	Shumagin Islands	0	0	983	0.54	0.0	0.0	0.1
		Dolgoi Island	0	0	1	0.95	0.0	0.0	0.0
		Ikatan	259	110	469	0.00	0.0	0.0	0.1
	Northern District	Bear River	0	0	0	1.00	0.0	0.0	0.0
		Three Hills	0	0	2	0.92	0.0	0.0	0.0
Central	Bristol Bay Area	Eastside districts	0	0	1,606	0.57	0.0	0.0	0.2
		Nushagak	0	0	163	0.72	0.0	0.0	0.0
		Togiak	0	0	110	0.75	0.0	0.0	0.0
AYK	Kuskokwim Area	District 5	0	0	12	0.78	0.0	0.0	0.0
		District 4	0	0	43	0.82	0.0	0.0	0.0
		District 1	0	0	35	0.83	0.0	0.0	0.0
		Mekoryuk	0	0	0	1.00	0.0	0.0	0.0
		Toksook Bay	0	0	0	0.96	0.0	0.0	0.0
	Yukon Area summer	Hooper Bay	0	0	1	0.95	0.0	0.0	0.0
		Dist. 1 Scammon Bay	0	0	0	0.95	0.0	0.0	0.0
		Dist. 1 Black R. only	0	0	0	0.97	0.0	0.0	0.0
		Dist. 1 marine	0	0	1	0.94	0.0	0.0	0.0
	Yukon Area fall	Dist. 1 Black R. only	0	0	0	1.00	0.0	0.0	0.0
		Dist. 1 marine	1048	663	1533	0.00	0.1	0.0	0.2
	Norton S. – P.C. Area	Stebbins	0	0	1	0.95	0.0	0.0	0.0
		St. Michael	0	0	12	0.92	0.0	0.0	0.0
		Subdist. 6 Unalakleet	479	0	1028	0.13	0.0	0.0	0.1
		Subdist. 5 Shaktoolik	232	103	411	0.00	0.0	0.0	0.1
		Subdist. 3 Moses Point	0	0	12	0.75	0.0	0.0	0.0
		Subdist. 2 Golovin Bay	0	0	0	0.96	0.0	0.0	0.0
		Subdist. 1 Nome	1	0	32	0.47	0.0	0.0	0.0
		Pt. Clarence	186	50	348	0.00	0.0	0.0	0.0
	Kotzebue Area	Kotzebue	190,550	175,118	206,328	0.00	17.0	5.1	40.7
Total			196,811						

Note: Harvest is the number of chum salmon reported to have been harvested in the area stratum.

Note: Harvest rate is the area stratum harvest divided by the total run within the WASSIP area for a given reporting group, expressed as a percent.

^a Adjusted median. Adjustment values vary by area stratum (see area stratum harvest and harvest rate Tables (7–115) for values.

Appendix D6.–Kotzebue Sound reporting group, 2009, all strata. Reporting group-specific harvest and harvest rate estimates by area stratum. Medians, 90% credibility intervals, and the probability that reporting group harvest estimate is equal to zero ($P = 0$) are reported.

Region	Fishery	Area stratum	Harvest				Harvest Rate (%)		
			Median ^a	90% CI		$P = 0$	Median	90% CI	
				5%	95%			5%	95%
Westward	Chignik Area	Eastern	0	0	1	0.95	0.0	0.0	0.0
		Central	0	0	1	0.94	0.0	0.0	0.0
		Chignik Bay	0	0	0	1.00	0.0	0.0	0.0
		Western and Perryville	0	0	2,893	0.76	0.0	0.0	0.4
	SEDM	SEDM	0	0	4	0.93	0.0	0.0	0.0
	S. AK Pen June	Shumagin Islands	2	0	3,221	0.46	0.0	0.0	0.5
		Dolgoi Island	102	48	170	0.00	0.0	0.0	0.0
		Ikatan	0	0	307	0.57	0.0	0.0	0.0
		Unimak	1,948	927	3,263	0.00	0.2	0.1	0.6
	S. AK Pen post-June	Shumagin Islands	938	406	1,665	0.00	0.1	0.0	0.3
		Dolgoi Island	0	0	65	0.89	0.0	0.0	0.0
		Ikatan	163	0	413	0.08	0.0	0.0	0.1
	Northern District	Bear River	0	0	0	0.96	0.0	0.0	0.0
		Three Hills	0	0	1	0.95	0.0	0.0	0.0
Central	Bristol Bay Area	Eastside districts	0	0	207	0.72	0.0	0.0	0.0
		Nushagak	0	0	828	0.66	0.0	0.0	0.1
		Togiak	0	0	54	0.76	0.0	0.0	0.0
AYK	Kuskokwim Area	District 5	0	0	8	0.88	0.0	0.0	0.0
		District 4	0	0	24	0.85	0.0	0.0	0.0
		District 1	0	0	15	0.86	0.0	0.0	0.0
		Mekoryuk	0	0	0	1.00	0.0	0.0	0.0
		Toksook Bay	0	0	0	0.97	0.0	0.0	0.0
	Yukon Area summer	Hooper Bay	0	0	0	0.96	0.0	0.0	0.0
		Dist. 1 Scammon Bay	0	0	0	0.97	0.0	0.0	0.0
		Dist. 1 Black R. only	0	0	0	0.97	0.0	0.0	0.0
		Dist. 1 marine	0	0	6	0.88	0.0	0.0	0.0
	Yukon Area fall	Dist. 1 Black R. only ^b	0	0	0	1.00	0.0	0.0	0.0
		Dist. 1 marine	44	30	65	0.00	0.0	0.0	0.0
	Norton S. – P.C. Area	Stebbins	0	0	11	0.84	0.0	0.0	0.0
		St. Michael	0	0	11	0.81	0.0	0.0	0.0
		Subdist. 6 Unalakleet	0	0	280	0.64	0.0	0.0	0.0
		Subdist. 5 Shaktoolik	1	0	458	0.47	0.0	0.0	0.1
		Subdist. 3 Moses Point	31	5	56	0.03	0.0	0.0	0.0
		Subdist. 2 Golovin Bay	0	0	0	0.98	0.0	0.0	0.0
		Subdist. 1 Nome	0	0	17	0.53	0.0	0.0	0.0
		Pt. Clarence	206	55	384	0.00	0.0	0.0	0.1
	Kotzebue Area	Kotzebue	187,562	170,994	202,571	0.00	25.0	8.3	50.4
Total			190,997						

Note: Harvest is the number of chum salmon reported to have been harvested in the area stratum.

Note: Harvest rate is the area stratum harvest divided by the total run within the WASSIP area for a given reporting group, expressed as a percent.

^a Adjusted median. Adjustment values vary by area stratum (see area stratum harvest and harvest rate Tables (7–115) for values.

^b District 1 Black River only (fall), Commercial, Yukon-Northern Area had zero harvest in 2007 and 2009.

Appendix D7.–CWAK reporting group, 2007, all strata. Reporting group-specific harvest and harvest rate estimates by area stratum. Medians, 90% credibility intervals, and the probability that reporting group harvest estimate is equal to zero ($P = 0$) are reported.

Region	Fishery	Area stratum	Harvest				Harvest Rate (%)		
			Median ^a	90% CI		$P = 0$	Median	90% CI	
				5%	95%			5%	95%
Westward	Chignik Area	Eastern	1,439	1,040	1,821	0.00	0.0	0.0	0.0
		Central	565	325	874	0.00	0.0	0.0	0.0
		Chignik Bay	0	0	0	1.00	0.0	0.0	0.0
		Western and Perryville	725	356	1,208	0.00	0.0	0.0	0.0
	SEDM	SEDM	0	0	0	1.00	0.0	0.0	0.0
	S. AK Pen June	Shumagin Islands	63,610	59,826	67,172	0.00	0.8	0.5	1.1
		Dolgoi Island	2,899	2,641	3,142	0.00	0.0	0.0	0.0
		Ikatan	30,389	28,760	31,911	0.00	0.4	0.2	0.5
		Unimak	81,637	76,835	85,684	0.00	1.0	0.6	1.4
	S. AK Pen post-June	Shumagin Islands	10,790	8,743	13,016	0.00	0.1	0.1	0.2
		Dolgoi Island	713	366	1,219	0.00	0.0	0.0	0.0
		Ikatan	634	473	828	0.00	0.0	0.0	0.0
	Northern District	Bear River	3	0	268	0.44	0.0	0.0	0.0
		Three Hills	8,036	5,474	10,702	0.00	0.1	0.1	0.2
Central	Bristol Bay Area	Eastside districts	718,495	639,077	801,142	0.00	8.5	5.5	12.2
		Nushagak	953,282	863,669	1,049,593	0.00	11.3	7.4	16.2
		Togiak	202,259	186,098	218,998	0.00	2.4	1.6	3.4
AYK	Kuskokwim Area	District 5	7,848	7,459	8,212	0.00	0.1	0.1	0.1
		District 4	62,232	58,950	65,539	0.00	0.7	0.5	1.1
		District 1	14,027	13,025	15,054	0.00	0.2	0.1	0.2
		Mekoryuk	6,028	2,672	11,276	0.00	0.1	0.0	0.1
		Toksook Bay	2,042	511	4,987	0.00	0.0	0.0	0.1
	Yukon Area summer	Hooper Bay	12,234	10,326	14,318	0.00	0.1	0.1	0.2
		Dist. 1 Scammon Bay	3,685	3,101	4,320	0.00	0.0	0.0	0.1
		Dist. 1 Black R. only	3,594	3,269	3,849	0.00	0.0	0.0	0.1
		Dist. 1 marine	11,030	10,313	11,742	0.00	0.1	0.1	0.2
	Yukon Area fall	Dist. 1 Black R. only ^b	0	0	0	1.00	0.0	0.0	0.0
		Dist. 1 marine	1,257	214	2,560	0.01	0.0	0.0	0.0
	Norton S. – P.C. Area	Stebbins	4,953	4,154	5,781	0.00	0.1	0.0	0.1
		St. Michael	2,119	1,781	2,477	0.00	0.0	0.0	0.0
		Subdist. 6 Unalakleet	13,880	13,131	14,546	0.00	0.2	0.1	0.2
		Subdist. 5 Shaktoolik	5,962	5,564	6,345	0.00	0.1	0.0	0.1
		Subdist. 3 Moses Point	6,653	6,104	7,220	0.00	0.1	0.1	0.1
		Subdist. 2 Golovin Bay	4,217	3,558	4,940	0.00	0.1	0.0	0.1
		Subdist. 1 Nome	2,935	2,452	3,418	0.00	0.0	0.0	0.1
		Pt. Clarence	7,125	5,939	8,404	0.00	0.1	0.1	0.1
	Kotzebue Area	Kotzebue	0	0	1,664	0.70	0.0	0.0	0.0
Total			2,247,297						

Note: Harvest is the number of chum salmon reported to have been harvested in the area stratum.

Note: Harvest rate is the area stratum harvest divided by the total run within the WASSIP area for a given reporting group, expressed as a percent.

^a Adjusted median. Adjustment values vary by area stratum (see area stratum harvest and harvest rate Tables (7–115) for values.

^b District 1 Black River only (fall), Commercial, Yukon-Northern Area had zero harvest in 2007 and 2009.

Appendix D8.–CWAK reporting group, 2008, all strata. Reporting group-specific harvest and harvest rate estimates by area stratum. Medians, 90% credibility intervals, and the probability that reporting group harvest estimate is equal to zero ($P = 0$) are reported.

Region	Fishery	Area stratum	Harvest				Harvest Rate (%)		
			Median ^a	90% CI		$P = 0$	Median	90% CI	
				5%	95%			5%	95%
Westward	Chignik Area	Eastern	466	339	603	0.00	0.0	0.0	0.0
		Central	663	323	1,137	0.00	0.0	0.0	0.0
		Chignik Bay	0	0	0	1.00	0.0	0.0	0.0
		Western and Perryville	3,553	2,094	5,035	0.00	0.1	0.0	0.1
	SEDM	SEDM	258	91	547	0.00	0.0	0.0	0.0
	S. AK Pen June	Shumagin Islands	48,814	44,480	53,070	0.00	0.8	0.6	1.1
		Dolgoi Island	2,190	1,988	2,384	0.00	0.0	0.0	0.0
		Ikatan	17,870	16,567	18,983	0.00	0.3	0.2	0.4
		Unimak	146,392	137,855	154,056	0.00	2.4	1.7	3.3
	S. AK Pen post-June	Shumagin Islands	4,939	3,693	6,293	0.00	0.1	0.1	0.1
		Dolgoi Island	1,762	1,135	2,519	0.00	0.0	0.0	0.0
		Ikatan	1,128	803	1,491	0.00	0.0	0.0	0.0
	Northern District	Bear River	0	0	0	1.00	0.0	0.0	0.0
		Three Hills	1,045	700	1,440	0.00	0.0	0.0	0.0
Central	Bristol Bay Area	Eastside districts	438,181	398,671	478,037	0.00	7.3	5.1	9.9
		Nushagak	492,197	450,950	534,490	0.00	8.2	5.8	11.1
		Togiak	301,967	276,606	328,540	0.00	5.0	3.5	6.8
AYK	Kuskokwim Area	District 5	10,405	9,871	10,927	0.00	0.2	0.1	0.2
		District 4	57,033	54,185	59,944	0.00	1.0	0.7	1.3
		District 1	30,516	28,792	32,274	0.00	0.5	0.4	0.7
		Mekoryuk	6,028	2,667	11,260	0.00	0.1	0.0	0.2
		Toksook Bay	2,038	505	5,027	0.00	0.0	0.0	0.1
	Yukon Area summer	Hooper Bay	12,007	10,134	14,081	0.00	0.2	0.1	0.3
		Dist. 1 Scammon Bay	5,744	4,830	6,743	0.00	0.1	0.1	0.1
		Dist. 1 Black R. only	1,002	923	1,081	0.00	0.0	0.0	0.0
		Dist. 1 marine	3,804	3,497	4,109	0.00	0.1	0.0	0.1
	Yukon Area fall	Dist. 1 Black R. only	0	0	0	1.00	0.0	0.0	0.0
		Dist. 1 marine	9,738	7,980	11,723	0.00	0.2	0.1	0.2
	Norton S. – P.C. Area	Stebbins	4,116	2,128	6,930	0.00	0.1	0.0	0.1
		St. Michael	2,845	1,013	5,974	0.00	0.0	0.0	0.1
		Subdist. 6 Unalakleet	19,869	18,711	21,056	0.00	0.3	0.2	0.4
		Subdist. 5 Shaktoolik	6,004	5,665	6,305	0.00	0.1	0.1	0.1
		Subdist. 3 Moses Point	1,588	1,384	1,808	0.00	0.0	0.0	0.0
		Subdist. 2 Golovin Bay	973	897	1,051	0.00	0.0	0.0	0.0
		Subdist. 1 Nome	738	616	860	0.00	0.0	0.0	0.0
		Pt. Clarence	2,587	2,158	3,058	0.00	0.0	0.0	0.1
	Kotzebue Area	Kotzebue	0	0	48	0.91	0.0	0.0	0.0
Total			1,638,460						

Note: Harvest is the number of chum salmon reported to have been harvested in the area stratum.

Note: Harvest rate is the area stratum harvest divided by the total run within the WASSIP area for a given reporting group, expressed as a percent.

^a Adjusted median. Adjustment values vary by area stratum (see area stratum harvest and harvest rate Tables (7–115) for values.

Appendix D9.–CWAK reporting group, 2009, all strata. Reporting group-specific harvest and harvest rate estimates by area stratum. Medians, 90% credibility intervals, and the probability that reporting group harvest estimate is equal to zero ($P = 0$) are reported.

Region	Fishery	Area stratum	Harvest				Harvest Rate (%)		
			Median ^a	90% CI		$P = 0$	Median	90% CI	
				5%	95%			5%	95%
Westward	Chignik Area	Eastern	366	62	948	0.01	0.0	0.0	0.0
		Central	1,370	746	2,199	0.00	0.0	0.0	0.0
		Chignik Bay	0	0	0	1.00	0.0	0.0	0.0
		Western and Perryville	30,437	25,152	35,383	0.00	0.5	0.3	0.7
	SEDM	SEDM	892	434	1,593	0.00	0.0	0.0	0.0
	S. AK Pen June	Shumagin Islands	282,690	265,871	297,712	0.00	4.6	3.3	6.1
		Dolgoi Island	4,249	3,869	4,618	0.00	0.1	0.0	0.1
		Ikatan	54,198	51,040	56,992	0.00	0.9	0.6	1.2
		Unimak	81,211	76,657	85,321	0.00	1.3	0.9	1.8
	S. AK Pen post-June	Shumagin Islands	16,856	14,735	19,090	0.00	0.3	0.2	0.4
		Dolgoi Island	510	231	915	0.00	0.0	0.0	0.0
		Ikatan	2,421	1,882	3,005	0.00	0.0	0.0	0.1
	Northern District	Bear River	0	0	5	0.93	0.0	0.0	0.0
		Three Hills	258	0	2,865	0.13	0.0	0.0	0.0
Central	Bristol Bay Area	Eastside districts	419,960	379,612	461,236	0.00	6.8	4.8	9.2
		Nushagak	745,083	685,822	807,428	0.00	12.2	8.6	16.3
		Togiak	141,352	127,642	156,301	0.00	2.3	1.6	3.1
AYK	Kuskokwim Area	District 5	16,982	16,034	17,955	0.00	0.3	0.2	0.4
		District 4	91,158	86,537	95,846	0.00	1.5	1.1	2.0
		District 1	76,790	72,680	81,003	0.00	1.3	0.9	1.7
		Mekoryuk	6,028	2,664	11,287	0.00	0.1	0.0	0.2
		Toksook Bay	2,042	508	5,048	0.00	0.0	0.0	0.1
	Yukon Area summer	Hooper Bay	9,200	7,761	10,772	0.00	0.1	0.1	0.2
		Dist. 1 Scammon Bay	3,472	2,917	4,074	0.00	0.1	0.0	0.1
		Dist. 1 Black R. only	466	400	535	0.00	0.0	0.0	0.0
		Dist. 1 marine	5,077	4,720	5,437	0.00	0.1	0.1	0.1
	Yukon Area fall	Dist. 1 Black R. only ^b	0	0	0	1.00	0.0	0.0	0.0
		Dist. 1 marine	2,908	2,371	3,512	0.00	0.0	0.0	0.1
	Norton S. – P.C. Area	Stebbins	1,454	1,222	1,700	0.00	0.0	0.0	0.0
		St. Michael	921	775	1,077	0.00	0.0	0.0	0.0
		Subdist. 6 Unalakleet	22,040	20,935	23,053	0.00	0.4	0.3	0.5
		Subdist. 5 Shaktoolik	11,340	10,533	11,954	0.00	0.2	0.1	0.2
		Subdist. 3 Moses Point	1,166	1,058	1,281	0.00	0.0	0.0	0.0
		Subdist. 2 Golovin Bay	1,781	1,519	2,073	0.00	0.0	0.0	0.0
		Subdist. 1 Nome	387	323	450	0.00	0.0	0.0	0.0
		Pt. Clarence	2,854	2,382	3,367	0.00	0.0	0.0	0.1
	Kotzebue Area	Kotzebue	0	0	6,379	0.78	0.0	0.0	0.1
Total			2,037,919						

Note: Harvest is the number of chum salmon reported to have been harvested in the area stratum.

Note: Harvest rate is the area stratum harvest divided by the total run within the WASSIP area for a given reporting group, expressed as a percent.

^a Adjusted median. Adjustment values vary by area stratum (see area stratum harvest and harvest rate Tables (7–115) for values.

^b District 1 Black River only (fall), Commercial, Yukon-Northern Area had zero harvest in 2007 and 2009.

Appendix D10.—Upper Yukon reporting group, 2007, all strata. Reporting group-specific harvest and harvest rate estimates by area stratum. Medians, 90% credibility intervals, and the probability that reporting group harvest estimate is equal to zero ($P = 0$) are reported.

Region	Fishery	Area stratum	Harvest				Harvest Rate (%)		
			Median ^a	90% CI		$P = 0$	Median	90% CI	
				5%	95%			5%	95%
Westward	Chignik Area	Eastern	0	0	3	0.93	0.0	0.0	0.0
		Central	0	0	1	0.94	0.0	0.0	0.0
		Chignik Bay	0	0	0	1.00	0.0	0.0	0.0
		Western and Perryville	248	84	522	0.00	0.0	0.0	0.0
	SEDM	SEDM	0	0	0	1.00	0.0	0.0	0.0
	S. AK Pen June	Shumagin Islands	1,551	899	2,339	0.00	0.1	0.1	0.2
		Dolgoi Island	43	19	75	0.00	0.0	0.0	0.0
		Ikatan	861	531	1,272	0.00	0.1	0.0	0.1
		Unimak	1,229	526	2,118	0.00	0.1	0.0	0.2
	S. AK Pen post-June	Shumagin Islands	340	0	1,070	0.10	0.0	0.0	0.1
		Dolgoi Island	0	0	0	0.95	0.0	0.0	0.0
		Ikatan	5	0	60	0.45	0.0	0.0	0.0
	Northern District	Bear River	0	0	0	0.96	0.0	0.0	0.0
		Three Hills	0	0	0	0.95	0.0	0.0	0.0
Central	Bristol Bay Area	Eastside districts	0	0	155	0.73	0.0	0.0	0.0
		Nushagak	0	0	286	0.68	0.0	0.0	0.0
		Togiak	0	0	33	0.79	0.0	0.0	0.0
AYK	Kuskokwim Area	District 5	0	0	10	0.87	0.0	0.0	0.0
		District 4	0	0	9	0.88	0.0	0.0	0.0
		District 1	0	0	68	0.85	0.0	0.0	0.0
		Mekoryuk	0	0	0	1.00	0.0	0.0	0.0
		Toksook Bay	0	0	1	0.94	0.0	0.0	0.0
		Yukon Area summer	0	0	2	0.94	0.0	0.0	0.0
		Dist. 1 Scammon Bay	202	125	300	0.00	0.0	0.0	0.0
		Dist. 1 Black R. only	130	2	383	0.00	0.0	0.0	0.0
		Dist. 1 marine	744	454	1082	0.00	0.1	0.0	0.1
		Yukon Area fall	0	0	0	1.00	0.0	0.0	0.0
		Dist. 1 marine	36,848	34,177	39,325	0.00	3.3	3.0	3.7
		Norton S. – P.C. Area	0	0	0	1.00	0.0	0.0	0.0
		Stebbins	27	0	169	0.24	0.0	0.0	0.0
		St. Michael	0	0	24	0.73	0.0	0.0	0.0
		Subdist. 6 Unalakleet	0	0	1	0.94	0.0	0.0	0.0
		Subdist. 5 Shaktoolik	0	0	3	0.92	0.0	0.0	0.0
		Subdist. 3 Moses Point	0	0	3	0.91	0.0	0.0	0.0
		Subdist. 2 Golovin Bay	0	0	0	1.00	0.0	0.0	0.0
		Subdist. 1 Nome	0	0	0	0.96	0.0	0.0	0.0
		Pt. Clarence	0	0	0	0.96	0.0	0.0	0.0
	Kotzebue Area	Kotzebue	0	0	5	0.93	0.0	0.0	0.0
Total			42,228						

Note: Harvest is the number of chum salmon reported to have been harvested in the area stratum.

Note: Harvest rate is the area stratum harvest divided by the total run within the WASSIP area for a given reporting group, expressed as a percent.

^a Adjusted median. Adjustment values vary by area stratum (see area stratum harvest and harvest rate Tables (7–115) for values.

^b District 1 Black River only (fall), Commercial, Yukon-Northern Area had zero harvest in 2007 and 2009.

Appendix D11.—Upper Yukon reporting group, 2008, all strata. Reporting group-specific harvest and harvest rate estimates by area stratum. Medians, 90% credibility intervals, and the probability that reporting group harvest estimate is equal to zero ($P = 0$) are reported.

Region	Fishery	Area stratum	Harvest				Harvest Rate (%)		
			Median ^a	90% CI		$P = 0$	Median	90% CI	
				5%	95%			5%	95%
Westward	Chignik Area	Eastern	4,990	0	6,107	0.15	0.5	0.0	0.7
		Central	0	0	2	0.94	0.0	0.0	0.0
		Chignik Bay	0	0	0	1.00	0.0	0.0	0.0
		Western and Perryville	0	0	0	0.95	0.0	0.0	0.0
	SEDM	SEDM	0	0	1	0.94	0.0	0.0	0.0
	S. AK Pen June	Shumagin Islands	2,117	1,120	3,444	0.00	0.2	0.1	0.4
		Dolgoi Island	64	39	93	0.00	0.0	0.0	0.0
		Ikatan	323	119	636	0.00	0.0	0.0	0.1
		Unimak	4,304	2,639	6,199	0.00	0.5	0.3	0.7
	S. AK Pen post-June	Shumagin Islands	31	0	278	0.31	0.0	0.0	0.0
		Dolgoi Island	0	0	143	0.74	0.0	0.0	0.0
		Ikatan	149	61	289	0.00	0.0	0.0	0.0
	Northern District	Bear River	0	0	0	1.00	0.0	0.0	0.0
		Three Hills	0	0	1	0.95	0.0	0.0	0.0
Central	Bristol Bay Area	Eastside districts	0	0	88	0.75	0.0	0.0	0.0
		Nushagak	0	0	164	0.72	0.0	0.0	0.0
		Togiak	0	0	46	0.77	0.0	0.0	0.0
AYK	Kuskokwim Area	District 5	0	0	14	0.79	0.0	0.0	0.0
		District 4	0	0	8	0.88	0.0	0.0	0.0
		District 1	0	0	33	0.73	0.0	0.0	0.0
		Mekoryuk	0	0	0	1.00	0.0	0.0	0.0
		Toksook Bay	0	0	2	0.94	0.0	0.0	0.0
		Yukon Area summer	0	0	1	0.95	0.0	0.0	0.0
	Yukon Area summer	Dist. 1 Scammon Bay	373	211	590	0.00	0.0	0.0	0.1
		Dist. 1 Black R. only	198	145	256	0.00	0.0	0.0	0.0
		Dist. 1 marine	808	600	1035	0.00	0.1	0.1	0.1
		Yukon Area fall	0	20	24	0.00	0.0	0.0	0.0
	Norton S. – P.C. Area	Dist. 1 marine	56,572	52,799	60,087	0.00	6.3	5.6	7.0
		Stebbins	0	0	57	0.86	0.0	0.0	0.0
		St. Michael	0	0	0	0.95	0.0	0.0	0.0
		Subdist. 6 Unalakleet	0	0	98	0.73	0.0	0.0	0.0
		Subdist. 5 Shaktoolik	0	0	28	0.58	0.0	0.0	0.0
		Subdist. 3 Moses Point	0	0	0	0.95	0.0	0.0	0.0
		Subdist. 2 Golovin Bay	0	0	0	0.96	0.0	0.0	0.0
		Subdist. 1 Nome	0	0	0	0.98	0.0	0.0	0.0
		Pt. Clarence	0	0	0	0.97	0.0	0.0	0.0
	Kotzebue Area	Kotzebue	0	0	1379	0.81	0.0	0.0	0.2
Total			69,951						

Note: Harvest is the number of chum salmon reported to have been harvested in the area stratum.

Note: Harvest rate is the area stratum harvest divided by the total run within the WASSIP area for a given reporting group, expressed as a percent.

^a Adjusted median. Adjustment values vary by area stratum (see area stratum harvest and harvest rate Tables (7–115) for values.

Appendix D12.—Upper Yukon reporting group, 2009, all strata. Reporting group-specific harvest and harvest rate estimates by area stratum. Medians, 90% credibility intervals, and the probability that reporting group harvest estimate is equal to zero ($P = 0$) are reported.

Region	Fishery	Area stratum	Harvest				Harvest Rate (%)		
			Median ^a	90% CI		$P = 0$	Median	90% CI	
				5%	95%			5%	95%
Westward	Chignik Area	Eastern	0	0	112	0.89	0.0	0.0	0.0
		Central	0	0	1	0.94	0.0	0.0	0.0
		Chignik Bay	0	0	0	1.00	0.0	0.0	0.0
		Western and Perryville	0	0	569	0.83	0.0	0.0	0.1
	SEDM	SEDM	0	0	1	0.95	0.0	0.0	0.0
	S. AK Pen June	Shumagin Islands	1,030	0	2,874	0.07	0.2	0.0	0.5
		Dolgoi Island	9	0	53	0.28	0.0	0.0	0.0
		Ikatan	59	3	514	0.02	0.0	0.0	0.1
		Unimak	168	0	1,006	0.22	0.0	0.0	0.2
	S. AK Pen post-June	Shumagin Islands	100	6	775	0.00	0.0	0.0	0.1
		Dolgoi Island	44	0	204	0.07	0.0	0.0	0.0
		Ikatan	0	0	29	0.88	0.0	0.0	0.0
	Northern District	Bear River	0	0	0	0.96	0.0	0.0	0.0
		Three Hills	0	0	0	0.95	0.0	0.0	0.0
Central	Bristol Bay Area	Eastside districts	0	0	119	0.73	0.0	0.0	0.0
		Nushagak	0	0	169	0.71	0.0	0.0	0.0
		Togiak	0	0	22	0.80	0.0	0.0	0.0
AYK	Kuskokwim Area	District 5	0	0	23	0.85	0.0	0.0	0.0
		District 4	0	0	19	0.86	0.0	0.0	0.0
		District 1	0	0	18	0.86	0.0	0.0	0.0
		Mekoryuk	0	0	0	1.00	0.0	0.0	0.0
		Toksook Bay	0	0	0	0.96	0.0	0.0	0.0
	Yukon Area summer	Hooper Bay	0	0	1	0.94	0.0	0.0	0.0
		Dist. 1 Scammon Bay	128	45	238	0.01	0.0	0.0	0.0
		Dist. 1 Black R. only	264	204	326	0.00	0.0	0.0	0.1
		Dist. 1 marine	1763	1497	2039	0.00	0.3	0.3	0.4
	Yukon Area fall	Dist. 1 Black R. only ^b	0	0	0	1.00	0.0	0.0	0.0
		Dist. 1 marine	8,935	8,211	9,636	0.00	1.6	1.4	1.8
	Norton S. – P.C. Area	Stebbins	7	0	40	0.23	0.0	0.0	0.0
		St. Michael	0	0	7	0.75	0.0	0.0	0.0
		Subdist. 6 Unalakleet	107	0	332	0.29	0.0	0.0	0.1
		Subdist. 5 Shaktoolik	0	0	18	0.82	0.0	0.0	0.0
		Subdist. 3 Moses Point	0	0	1	0.95	0.0	0.0	0.0
		Subdist. 2 Golovin Bay	0	0	0	0.98	0.0	0.0	0.0
		Subdist. 1 Nome	0	0	0	0.98	0.0	0.0	0.0
		Pt. Clarence	0	0	0	0.97	0.0	0.0	0.0
	Kotzebue Area	Kotzebue	0	0	1818	0.74	0.0	0.0	0.3
Total			12,614						

Note: Harvest is the number of chum salmon reported to have been harvested in the area stratum.

Note: Harvest rate is the area stratum harvest divided by the total run within the WASSIP area for a given reporting group, expressed as a percent.

^a Adjusted median. Adjustment values vary by area stratum (see area stratum harvest and harvest rate Tables (7–115) for values.

^b District 1 Black River only (fall), Commercial, Yukon-Northern Area had zero harvest in 2007 and 2009.

Appendix D13.–Northern District reporting group, 2007, all strata. Reporting group-specific harvest and harvest rate estimates by area stratum. Medians, 90% credibility intervals, and the probability that reporting group harvest estimate is equal to zero ($P = 0$) are reported.

Region	Fishery	Area stratum	Harvest				Harvest Rate (%)		
			Median ^a	90% CI		$P = 0$	Median	90% CI	
				5%	95%			5%	95%
Westward	Chignik Area	Eastern	0	0	52	0.86	0.0	0.0	0.0
		Central	0	0	0	0.96	0.0	0.0	0.0
		Chignik Bay	0	0	0	1.00	0.0	0.0	0.0
		Western and Perryville	0	0	497	0.61	0.0	0.0	0.1
	SEDM	SEDM	0	0	0	1.00	0.0	0.0	0.0
	S. AK Pen June	Shumagin Islands	0	0	556	0.51	0.0	0.0	0.1
		Dolgoi Island	12	4	50	0.00	0.0	0.0	0.0
		Ikatan	217	92	432	0.00	0.0	0.0	0.1
		Unimak	332	124	1,411	0.00	0.0	0.0	0.3
	S. AK Pen post-June	Shumagin Islands	1,591	556	2,985	0.00	0.2	0.0	0.7
		Dolgoi Island	41	0	327	0.34	0.0	0.0	0.1
		Ikatan	660	423	916	0.00	0.1	0.0	0.3
	Northern District	Bear River	29,102	26,871	31,003	0.00	4.0	1.1	10.7
		Three Hills	28,136	24,422	31,326	0.00	3.8	1.0	10.3
Central	Bristol Bay Area	Eastside districts	65,448	36,880	99,731	0.00	8.8	2.2	25.2
		Nushagak	0	0	102	0.74	0.0	0.0	0.0
		Togiak	0	0	117	0.74	0.0	0.0	0.0
AYK	Kuskokwim Area	District 5	0	0	25	0.71	0.0	0.0	0.0
		District 4	0	0	28	0.84	0.0	0.0	0.0
		District 1	0	0	1	0.93	0.0	0.0	0.0
		Mekoryuk	0	0	0	1.00	0.0	0.0	0.0
		Toksook Bay	0	0	0	0.98	0.0	0.0	0.0
	Yukon Area summer	Hooper Bay	0	0	0	0.96	0.0	0.0	0.0
		Dist. 1 Scammon Bay	0	0	0	0.96	0.0	0.0	0.0
		Dist. 1 Black R. only	0	0	0	0.95	0.0	0.0	0.0
		Dist. 1 marine	0	0	1	0.93	0.0	0.0	0.0
	Yukon Area fall	Dist. 1 Black R. only ^b	0	0	0	1.00	0.0	0.0	0.0
		Dist. 1 marine	0	0	5	0.91	0.0	0.0	0.0
	Norton S. – P.C. Area	Stebbins	0	0	0	0.97	0.0	0.0	0.0
		St. Michael	0	0	0	0.97	0.0	0.0	0.0
		Subdist. 6 Unalakleet	0	0	3	0.92	0.0	0.0	0.0
		Subdist. 5 Shaktoolik	0	0	0	0.95	0.0	0.0	0.0
		Subdist. 3 Moses Point	0	0	1	0.94	0.0	0.0	0.0
		Subdist. 2 Golovin Bay	0	0	0	1.00	0.0	0.0	0.0
		Subdist. 1 Nome	0	0	0	0.97	0.0	0.0	0.0
		Pt. Clarence	0	0	0	0.96	0.0	0.0	0.0
	Kotzebue Area	Kotzebue	0	0	2	0.94	0.0	0.0	0.0
Total			125,539						

Note: Harvest is the number of chum salmon reported to have been harvested in the area stratum.

Note: Harvest rate is the area stratum harvest divided by the total run within the WASSIP area for a given reporting group, expressed as a percent.

^a Adjusted median. Adjustment values vary by area stratum (see area stratum harvest and harvest rate Tables (7–115) for values.

^b District 1 Black River only (fall), Commercial, Yukon-Northern Area had zero harvest in 2007 and 2009.

Appendix D14.–Northern District reporting group, 2008, all strata. Reporting group-specific harvest and harvest rate estimates by area stratum. Medians, 90% credibility intervals, and the probability that reporting group harvest estimate is equal to zero ($P = 0$) are reported.

Region	Fishery	Area stratum	Harvest				Harvest Rate (%)		
			Median ^a	90% CI		$P = 0$	Median	90% CI	
				5%	95%			5%	95%
Westward	Chignik Area	Eastern	328	158	566	0.00	0.0	0.0	0.1
		Central	0	0	11	0.92	0.0	0.0	0.0
		Chignik Bay	0	0	0	1.00	0.0	0.0	0.0
		Western and Perryville	0	0	1,495	0.76	0.0	0.0	0.2
	SEDM	SEDM	0	0	70	0.89	0.0	0.0	0.0
	S. AK Pen June	Shumagin Islands	1,104	340	2,395	0.00	0.1	0.0	0.5
		Dolgoi Island	51	23	100	0.00	0.0	0.0	0.0
		Ikatan	556	342	959	0.00	0.1	0.0	0.2
		Unimak	3,461	1,563	6,700	0.00	0.4	0.1	1.4
	S. AK Pen post-June	Shumagin Islands	950	433	1,863	0.00	0.1	0.0	0.4
		Dolgoi Island	43	0	1,903	0.44	0.0	0.0	0.3
		Ikatan	372	81	867	0.00	0.0	0.0	0.2
	Northern District	Bear River	3,201	2,944	3,470	0.00	0.3	0.1	1.1
		Three Hills	5,184	4,613	5,677	0.00	0.5	0.1	1.7
Central	Bristol Bay Area	Eastside districts	27,262	14,890	39,521	0.00	2.8	0.6	9.4
		Nushagak	0	0	3,494	0.59	0.0	0.0	0.5
		Togiak	0	0	88	0.76	0.0	0.0	0.0
AYK	Kuskokwim Area	District 5	0	0	19	0.69	0.0	0.0	0.0
		District 4	0	0	9	0.87	0.0	0.0	0.0
		District 1	0	0	6	0.88	0.0	0.0	0.0
		Mekoryuk	0	0	0	1.00	0.0	0.0	0.0
		Toksook Bay	0	0	3	0.91	0.0	0.0	0.0
	Yukon Area summer	Hooper Bay	0	0	0	0.96	0.0	0.0	0.0
		Dist. 1 Scammon Bay	0	0	0	0.97	0.0	0.0	0.0
		Dist. 1 Black R. only	0	0	0	0.98	0.0	0.0	0.0
		Dist. 1 marine	0	0	0	0.96	0.0	0.0	0.0
	Yukon Area fall	Dist. 1 Black R. only	0	0	0	1.00	0.0	0.0	0.0
		Dist. 1 marine	0	0	350	0.61	0.0	0.0	0.0
	Norton S. – P.C. Area	Stebbins	0	0	0	0.96	0.0	0.0	0.0
		St. Michael	0	0	0	0.97	0.0	0.0	0.0
		Subdist. 6 Unalakleet	0	0	5	0.89	0.0	0.0	0.0
		Subdist. 5 Shaktoolik	0	0	1	0.93	0.0	0.0	0.0
		Subdist. 3 Moses Point	0	0	0	0.96	0.0	0.0	0.0
		Subdist. 2 Golovin Bay	0	0	0	0.98	0.0	0.0	0.0
		Subdist. 1 Nome	0	0	0	0.98	0.0	0.0	0.0
		Pt. Clarence	0	0	0	0.97	0.0	0.0	0.0
	Kotzebue Area	Kotzebue	0	0	2	0.94	0.0	0.0	0.0
Total			42,512						

Note: Harvest is the number of chum salmon reported to have been harvested in the area stratum.

Note: Harvest rate is the area stratum harvest divided by the total run within the WASSIP area for a given reporting group, expressed as a percent.

^a Adjusted median. Adjustment values vary by area stratum (see area stratum harvest and harvest rate Tables (7–115) for values.

Appendix D15.–Northern District reporting group, 2009, all strata. Reporting group-specific harvest and harvest rate estimates by area stratum. Medians, 90% credibility intervals, and the probability that reporting group harvest estimate is equal to zero ($P = 0$) are reported.

Region	Fishery	Area stratum	Harvest				Harvest Rate (%)		
			Median ^a	90% CI		$P = 0$	Median	90% CI	
				5%	95%			5%	95%
Westward	Chignik Area	Eastern	0	0	294	0.74	0.0	0.0	0.0
		Central	0	0	36	0.90	0.0	0.0	0.0
		Chignik Bay	0	0	0	1.00	0.0	0.0	0.0
		Western and Perryville	808	0	2,848	0.32	0.1	0.0	0.6
	SEDM	SEDM	0	0	362	0.87	0.0	0.0	0.0
	S. AK Pen June	Shumagin Islands	892	0	4,411	0.21	0.1	0.0	0.9
		Dolgoi Island	131	75	212	0.00	0.0	0.0	0.1
		Ikatan	1,722	1,029	2,557	0.00	0.2	0.0	0.8
		Unimak	2,491	1,436	4,037	0.00	0.3	0.1	1.1
	S. AK Pen post-June	Shumagin Islands	4,850	3,303	6,622	0.00	0.6	0.1	2.1
		Dolgoi Island	0	0	273	0.80	0.0	0.0	0.0
		Ikatan	2,137	1,398	3,017	0.00	0.3	0.1	0.9
	Northern District	Bear River	17,115	15,788	18,321	0.00	2.1	0.5	7.0
		Three Hills	14,823	12,015	15,879	0.00	1.8	0.4	5.9
Central	Bristol Bay Area	Eastside districts	18,745	7,636	32,000	0.00	2.2	0.4	8.5
		Nushagak	0	0	86	0.75	0.0	0.0	0.0
		Togiak	0	0	41	0.78	0.0	0.0	0.0
AYK	Kuskokwim Area	District 5	0	0	3	0.90	0.0	0.0	0.0
		District 4	0	0	35	0.83	0.0	0.0	0.0
		District 1	0	0	8	0.88	0.0	0.0	0.0
		Mekoryuk	0	0	0	1.00	0.0	0.0	0.0
		Toksook Bay	0	0	0	0.97	0.0	0.0	0.0
	Yukon Area summer	Hooper Bay	0	0	0	0.95	0.0	0.0	0.0
		Dist. 1 Scammon Bay	0	0	0	0.98	0.0	0.0	0.0
		Dist. 1 Black R. only	0	0	0	0.98	0.0	0.0	0.0
		Dist. 1 marine	0	0	1	0.92	0.0	0.0	0.0
	Yukon Area fall	Dist. 1 Black R. only ^b	0	0	0	1.00	0.0	0.0	0.0
		Dist. 1 marine	0	0	2	0.91	0.0	0.0	0.0
	Norton S. – P.C. Area	Stebbins	0	0	0	0.97	0.0	0.0	0.0
		St. Michael	0	0	0	0.97	0.0	0.0	0.0
		Subdist. 6 Unalakleet	0	0	4	0.90	0.0	0.0	0.0
		Subdist. 5 Shaktoolik	0	0	3	0.91	0.0	0.0	0.0
		Subdist. 3 Moses Point	0	0	0	0.97	0.0	0.0	0.0
		Subdist. 2 Golovin Bay	0	0	0	0.99	0.0	0.0	0.0
		Subdist. 1 Nome	0	0	0	0.99	0.0	0.0	0.0
		Pt. Clarence	0	0	0	0.97	0.0	0.0	0.0
	Kotzebue Area	Kotzebue	0	0	3	0.93	0.0	0.0	0.0
Total			63,714						

Note: Harvest is the number of chum salmon reported to have been harvested in the area stratum.

Note: Harvest rate is the area stratum harvest divided by the total run within the WASSIP area for a given reporting group, expressed as a percent.

^a Adjusted median. Adjustment values vary by area stratum (see area stratum harvest and harvest rate Tables (7–115) for values.

^b District 1 Black River only (fall), Commercial, Yukon-Northern Area had zero harvest in 2007 and 2009.

Appendix D16.—Northwestern District reporting group, 2007, all strata. Reporting group-specific harvest and harvest rate estimates by area stratum. Medians, 90% credibility intervals, and the probability that reporting group harvest estimate is equal to zero ($P = 0$) are reported.

Region	Fishery	Area stratum	Harvest				Harvest Rate (%)		
			Median ^a	90% CI		$P = 0$	Median	90% CI	
				5%	95%			5%	95%
Westward	Chignik Area	Eastern	22	0	215	0.34	0.0	0.0	0.0
		Central	0	0	0	0.95	0.0	0.0	0.0
		Chignik Bay	0	0	0	1.00	0.0	0.0	0.0
		Western and Perryville	0	0	304	0.54	0.0	0.0	0.0
	SEDM	SEDM	0	0	0	1.00	0.0	0.0	0.0
	S. AK Pen June	Shumagin Islands	784	378	1,327	0.00	0.1	0.0	0.2
		Dolgoi Island	42	26	64	0.00	0.0	0.0	0.0
		Ikatan	417	279	595	0.00	0.0	0.0	0.1
		Unimak	1,192	746	1,804	0.00	0.1	0.0	0.3
	S. AK Pen post-June	Shumagin Islands	6,619	4,557	9,160	0.00	0.5	0.1	1.6
		Dolgoi Island	128	0	859	0.42	0.0	0.0	0.1
		Ikatan	935	694	1,192	0.00	0.1	0.0	0.2
	Northern District	Bear River	375	0	1,271	0.13	0.0	0.0	0.2
		Three Hills	289	0	1,344	0.35	0.0	0.0	0.2
Central	Bristol Bay Area	Eastside districts	0	0	116	0.74	0.0	0.0	0.0
		Nushagak	0	0	74	0.76	0.0	0.0	0.0
		Togiak	0	0	31	0.79	0.0	0.0	0.0
AYK	Kuskokwim Area	District 5	0	0	2	0.92	0.0	0.0	0.0
		District 4	0	0	7	0.88	0.0	0.0	0.0
		District 1	0	0	1	0.94	0.0	0.0	0.0
		Mekoryuk	0	0	0	1.00	0.0	0.0	0.0
		Toksook Bay	0	0	0	0.98	0.0	0.0	0.0
	Yukon Area summer	Hooper Bay	0	0	0	0.96	0.0	0.0	0.0
		Dist. 1 Scammon Bay	0	0	0	0.96	0.0	0.0	0.0
		Dist. 1 Black R. only	0	0	0	0.95	0.0	0.0	0.0
		Dist. 1 marine	0	0	1	0.94	0.0	0.0	0.0
	Yukon Area fall	Dist. 1 Black R. only ^b	0	0	0	1.00	0.0	0.0	0.0
		Dist. 1 marine	0	0	5	0.91	0.0	0.0	0.0
	Norton S. – P.C. Area	Stebbins	0	0	0	0.97	0.0	0.0	0.0
		St. Michael	0	0	0	0.98	0.0	0.0	0.0
		Subdist. 6 Unalakleet	0	0	0	0.95	0.0	0.0	0.0
		Subdist. 5 Shaktoolik	0	0	0	0.96	0.0	0.0	0.0
		Subdist. 3 Moses Point	0	0	1	0.95	0.0	0.0	0.0
		Subdist. 2 Golovin Bay	0	0	0	1.00	0.0	0.0	0.0
		Subdist. 1 Nome	0	0	0	0.97	0.0	0.0	0.0
		Pt. Clarence	0	0	0	0.97	0.0	0.0	0.0
	Kotzebue Area	Kotzebue	0	0	1	0.94	0.0	0.0	0.0
Total			10,803						

Note: Harvest is the number of chum salmon reported to have been harvested in the area stratum.

Note: Harvest rate is the area stratum harvest divided by the total run within the WASSIP area for a given reporting group, expressed as a percent.

^a Adjusted median. Adjustment values vary by area stratum (see area stratum harvest and harvest rate Tables (7–115) for values.

^b District 1 Black River only (fall), Commercial, Yukon-Northern Area had zero harvest in 2007 and 2009.

Appendix D17.—Northwestern District reporting group, 2008, all strata. Reporting group-specific harvest and harvest rate estimates by area stratum. Medians, 90% credibility intervals, and the probability that reporting group harvest estimate is equal to zero ($P = 0$) are reported.

Region	Fishery	Area stratum	Harvest				Harvest Rate (%)		
			Median ^a	90% CI		$P = 0$	Median	90% CI	
				5%	95%			5%	95%
Westward	Chignik Area	Eastern	72	0	293	0.14	0.0	0.0	0.0
		Central	0	0	2	0.94	0.0	0.0	0.0
		Chignik Bay	0	0	0	1.00	0.0	0.0	0.0
		Western and Perryville	812	243	1,749	0.01	0.1	0.0	0.3
	SEDM	SEDM	0	0	57	0.90	0.0	0.0	0.0
	S. AK Pen June	Shumagin Islands	1,465	481	2,605	0.00	0.1	0.0	0.4
		Dolgoi Island	155	116	197	0.00	0.0	0.0	0.0
		Ikatan	1,770	1,353	2,232	0.00	0.1	0.0	0.4
		Unimak	10,336	7,795	13,063	0.00	0.8	0.2	2.6
	S. AK Pen post-June	Shumagin Islands	6,465	4,590	8,491	0.00	0.5	0.1	1.6
		Dolgoi Island	282	0	1,033	0.34	0.0	0.0	0.1
		Ikatan	1,349	905	1,852	0.00	0.1	0.0	0.3
	Northern District	Bear River	0	0	0	1.00	0.0	0.0	0.0
		Three Hills	35	0	161	0.32	0.0	0.0	0.0
Central	Bristol Bay Area	Eastside districts	0	0	658	0.62	0.0	0.0	0.1
		Nushagak	0	0	276	0.67	0.0	0.0	0.0
		Togiak	0	0	43	0.78	0.0	0.0	0.0
AYK	Kuskokwim Area	District 5	0	0	2	0.89	0.0	0.0	0.0
		District 4	0	0	6	0.89	0.0	0.0	0.0
		District 1	0	0	4	0.90	0.0	0.0	0.0
		Mekoryuk	0	0	0	1.00	0.0	0.0	0.0
		Toksook Bay	0	0	9	0.72	0.0	0.0	0.0
	Yukon Area summer	Hooper Bay	0	0	0	0.96	0.0	0.0	0.0
		Dist. 1 Scammon Bay	0	0	0	0.97	0.0	0.0	0.0
		Dist. 1 Black R. only	0	0	0	0.98	0.0	0.0	0.0
		Dist. 1 marine	0	0	0	0.96	0.0	0.0	0.0
	Yukon Area fall	Dist. 1 Black R. only	0	0	0	1.00	0.0	0.0	0.0
		Dist. 1 marine	0	0	14	0.87	0.0	0.0	0.0
	Norton S. – P.C. Area	Stebbins	0	0	0	0.96	0.0	0.0	0.0
		St. Michael	0	0	0	0.97	0.0	0.0	0.0
		Subdist. 6 Unalakleet	0	0	2	0.92	0.0	0.0	0.0
		Subdist. 5 Shaktoolik	0	0	2	0.92	0.0	0.0	0.0
		Subdist. 3 Moses Point	0	0	0	0.97	0.0	0.0	0.0
		Subdist. 2 Golovin Bay	0	0	0	0.99	0.0	0.0	0.0
		Subdist. 1 Nome	0	0	0	0.98	0.0	0.0	0.0
		Pt. Clarence	0	0	0	0.98	0.0	0.0	0.0
	Kotzebue Area	Kotzebue	0	0	4	0.93	0.0	0.0	0.0
Total			22,741						

Note: Harvest is the number of chum salmon reported to have been harvested in the area stratum.

Note: Harvest rate is the area stratum harvest divided by the total run within the WASSIP area for a given reporting group, expressed as a percent.

^a Adjusted median. Adjustment values vary by area stratum (see area stratum harvest and harvest rate Tables (7–115) for values.

Appendix D18.—Northwestern District reporting group, 2009, all strata. Reporting group-specific harvest and harvest rate estimates by area stratum. Medians, 90% credibility intervals, and the probability that reporting group harvest estimate is equal to zero ($P = 0$) are reported.

Region	Fishery	Area stratum	Harvest				Harvest Rate (%)		
			Median ^a	90% CI		$P = 0$	Median	90% CI	
				5%	95%			5%	95%
Westward	Chignik Area	Eastern	0	0	3	0.93	0.0	0.0	0.0
		Central	0	0	46	0.90	0.0	0.0	0.0
		Chignik Bay	0	0	0	1.00	0.0	0.0	0.0
		Western and Perryville	1,833	595	3,586	0.01	0.4	0.1	1.2
	SEDM	SEDM	430	0	1,202	0.11	0.1	0.0	0.4
	S. AK Pen June	Shumagin Islands	18,900	14,061	24,141	0.00	3.9	1.1	10.4
		Dolgoi Island	396	324	474	0.00	0.1	0.0	0.2
		Ikatan	4,147	3,294	5,085	0.00	0.9	0.2	2.3
		Unimak	7,569	6,276	8,964	0.00	1.6	0.4	4.1
	S. AK Pen post-June	Shumagin Islands	6,528	4,859	8,523	0.00	1.4	0.4	3.6
		Dolgoi Island	0	0	277	0.82	0.0	0.0	0.1
		Ikatan	2,785	2,004	3,805	0.00	0.6	0.2	1.6
	Northern District	Bear River	999	507	1,630	0.00	0.2	0.0	0.6
		Three Hills	0	0	39	0.89	0.0	0.0	0.0
Central	Bristol Bay Area	Eastside districts	0	0	90	0.74	0.0	0.0	0.0
		Nushagak	0	0	79	0.75	0.0	0.0	0.0
		Togiak	0	0	18	0.81	0.0	0.0	0.0
AYK	Kuskokwim Area	District 5	0	0	2	0.92	0.0	0.0	0.0
		District 4	0	0	8	0.88	0.0	0.0	0.0
		District 1	0	0	7	0.88	0.0	0.0	0.0
		Mekoryuk	0	0	0	1.00	0.0	0.0	0.0
		Toksook Bay	0	0	0	0.97	0.0	0.0	0.0
	Yukon Area summer	Hooper Bay	0	0	0	0.96	0.0	0.0	0.0
		Dist. 1 Scammon Bay	0	0	0	0.98	0.0	0.0	0.0
		Dist. 1 Black R. only	0	0	0	0.99	0.0	0.0	0.0
		Dist. 1 marine	0	0	1	0.94	0.0	0.0	0.0
	Yukon Area fall	Dist. 1 Black R. only ^b	0	0	0	1.00	0.0	0.0	0.0
		Dist. 1 marine	0	0	1	0.92	0.0	0.0	0.0
	Norton S. – P.C. Area	Stebbins	0	0	0	0.97	0.0	0.0	0.0
		St. Michael	0	0	0	0.98	0.0	0.0	0.0
		Subdist. 6 Unalakleet	0	0	2	0.91	0.0	0.0	0.0
		Subdist. 5 Shaktoolik	0	0	2	0.91	0.0	0.0	0.0
		Subdist. 3 Moses Point	0	0	0	0.97	0.0	0.0	0.0
		Subdist. 2 Golovin Bay	0	0	0	1.00	0.0	0.0	0.0
		Subdist. 1 Nome	0	0	0	0.99	0.0	0.0	0.0
		Pt. Clarence	0	0	0	0.98	0.0	0.0	0.0
	Kotzebue Area	Kotzebue	0	0	2	0.94	0.0	0.0	0.0
Total			43,587						

Note: Harvest is the number of chum salmon reported to have been harvested in the area stratum.

Note: Harvest rate is the area stratum harvest divided by the total run within the WASSIP area for a given reporting group, expressed as a percent.

^a Adjusted median. Adjustment values vary by area stratum (see area stratum harvest and harvest rate Tables (7–115) for values.

^b District 1 Black River only (fall), Commercial, Yukon-Northern Area had zero harvest in 2007 and 2009.

Appendix D19.—South Peninsula reporting group, 2007, all strata. Reporting group-specific harvest and harvest rate estimates by area stratum. Medians, 90% credibility intervals, and the probability that reporting group harvest estimate is equal to zero ($P = 0$) are reported.

Region	Fishery	Area stratum	Harvest				Harvest Rate (%)		
			Median ^a	90% CI		$P = 0$	Median	90% CI	
				5%	95%			5%	95%
Westward	Chignik Area	Eastern	759	57	1,389	0.02	0.0	0.0	0.1
		Central	2,325	1,362	3,412	0.00	0.1	0.0	0.3
		Chignik Bay	0	0	0	1.00	0.0	0.0	0.0
		Western and Perryville	282	0	3,888	0.22	0.0	0.0	0.2
	SEDM	SEDM	40,649	37,387	44,056	0.00	1.3	0.3	4.4
	S. AK Pen June	Shumagin Islands	2,769	1,512	4,781	0.00	0.1	0.0	0.3
		Dolgoi Island	3	0	16	0.09	0.0	0.0	0.0
		Ikatan	358	146	625	0.00	0.0	0.0	0.0
		Unimak	78	8	446	0.01	0.0	0.0	0.0
	S. AK Pen post-June	Shumagin Islands	58,699	51,568	65,658	0.00	1.8	0.5	6.3
		Dolgoi Island	109,655	100,891	118,329	0.00	3.4	0.8	11.7
		Ikatan	33,802	31,059	36,613	0.00	1.1	0.3	3.6
	Northern District	Bear River	0	0	7	0.91	0.0	0.0	0.0
		Three Hills	0	0	77	0.90	0.0	0.0	0.0
Central	Bristol Bay Area	Eastside districts	0	0	111	0.74	0.0	0.0	0.0
		Nushagak	0	0	71	0.76	0.0	0.0	0.0
		Togiak	0	0	38	0.78	0.0	0.0	0.0
AYK	Kuskokwim Area	District 5	0	0	11	0.80	0.0	0.0	0.0
		District 4	0	0	6	0.89	0.0	0.0	0.0
		District 1	0	0	1	0.94	0.0	0.0	0.0
		Mekoryuk	0	0	0	1.00	0.0	0.0	0.0
		Toksook Bay	0	0	0	0.98	0.0	0.0	0.0
	Yukon Area summer	Hooper Bay	0	0	0	0.96	0.0	0.0	0.0
		Dist. 1 Scammon Bay	0	0	0	0.96	0.0	0.0	0.0
		Dist. 1 Black R. only	0	0	0	0.95	0.0	0.0	0.0
		Dist. 1 marine	0	0	1	0.94	0.0	0.0	0.0
	Yukon Area fall	Dist. 1 Black R. only ^b	0	0	0	1.00	0.0	0.0	0.0
		Dist. 1 marine	0	0	4	0.91	0.0	0.0	0.0
	Norton S. – P.C. Area	Stebbins	0	0	0	0.97	0.0	0.0	0.0
		St. Michael	0	0	0	0.98	0.0	0.0	0.0
		Subdist. 6 Unalakleet	0	0	0	0.95	0.0	0.0	0.0
		Subdist. 5 Shaktoolik	0	0	0	0.96	0.0	0.0	0.0
		Subdist. 3 Moses Point	0	0	1	0.94	0.0	0.0	0.0
		Subdist. 2 Golovin Bay	0	0	0	1.00	0.0	0.0	0.0
		Subdist. 1 Nome	0	0	0	0.97	0.0	0.0	0.0
		Pt. Clarence	0	0	0	0.97	0.0	0.0	0.0
	Kotzebue Area	Kotzebue	0	0	2	0.94	0.0	0.0	0.0
Total			249,379						

Note: Harvest is the number of chum salmon reported to have been harvested in the area stratum.

Note: Harvest rate is the area stratum harvest divided by the total run within the WASSIP area for a given reporting group, expressed as a percent.

^a Adjusted median. Adjustment values vary by area stratum (see area stratum harvest and harvest rate Tables (7–115) for values.

^b District 1 Black River only (fall), Commercial, Yukon-Northern Area had zero harvest in 2007 and 2009.

Appendix D20.—South Peninsula reporting group, 2008, all strata. Reporting group-specific harvest and harvest rate estimates by area stratum. Medians, 90% credibility intervals, and the probability that reporting group harvest estimate is equal to zero ($P = 0$) are reported.

Region	Fishery	Area stratum	Harvest				Harvest Rate (%)		
			Median ^a	90% CI		$P = 0$	Median	90% CI	
				5%	95%			5%	95%
Westward	Chignik Area	Eastern	253	26	467	0.02	0.0	0.0	0.0
		Central	377	0	3,770	0.15	0.0	0.0	0.2
		Chignik Bay	0	0	0	1.00	0.0	0.0	0.0
		Western and Perryville	6,702	0	13,528	0.06	0.3	0.0	1.1
	SEDM	SEDM	56,632	51,856	61,369	0.00	2.5	0.6	7.8
	S. AK Pen June	Shumagin Islands	6,174	4,638	7,958	0.00	0.3	0.1	0.9
		Dolgoi Island	17	3	70	0.01	0.0	0.0	0.0
		Ikatan	170	21	484	0.00	0.0	0.0	0.0
		Unimak	1,165	199	4,705	0.01	0.0	0.0	0.3
	S. AK Pen post-June	Shumagin Islands	40,709	34,835	46,931	0.00	1.8	0.5	5.6
		Dolgoi Island	87,569	80,404	92,921	0.00	3.8	1.0	11.9
		Ikatan	49,360	45,420	53,051	0.00	2.1	0.5	6.8
	Northern District	Bear River	0	0	0	1.00	0.0	0.0	0.0
		Three Hills	0	0	13	0.89	0.0	0.0	0.0
Central	Bristol Bay Area	Eastside districts	0	0	788	0.61	0.0	0.0	0.0
		Nushagak	0	0	387	0.61	0.0	0.0	0.0
		Togiak	0	0	35	0.79	0.0	0.0	0.0
AYK	Kuskokwim Area	District 5	0	0	11	0.78	0.0	0.0	0.0
		District 4	0	0	5	0.89	0.0	0.0	0.0
		District 1	0	0	3	0.91	0.0	0.0	0.0
		Mekoryuk	0	0	0	1.00	0.0	0.0	0.0
		Toksook Bay	0	0	0	0.96	0.0	0.0	0.0
			0	0	0	0.96	0.0	0.0	0.0
	Yukon Area summer	Hooper Bay	0	0	0	0.96	0.0	0.0	0.0
		Dist. 1 Scammon Bay	0	0	0	0.97	0.0	0.0	0.0
		Dist. 1 Black R. only	0	0	0	0.98	0.0	0.0	0.0
		Dist. 1 marine	0	0	0	0.96	0.0	0.0	0.0
	Yukon Area fall	Dist. 1 Black R. only	0	0	0	1.00	0.0	0.0	0.0
		Dist. 1 marine	0	0	11	0.87	0.0	0.0	0.0
	Norton S. – P.C. Area	Stebbins	0	0	0	0.96	0.0	0.0	0.0
		St. Michael	0	0	0	0.97	0.0	0.0	0.0
		Subdist. 6 Unalakleet	0	0	2	0.92	0.0	0.0	0.0
		Subdist. 5 Shaktoolik	0	0	1	0.93	0.0	0.0	0.0
		Subdist. 3 Moses Point	0	0	0	0.97	0.0	0.0	0.0
		Subdist. 2 Golovin Bay	0	0	0	1.00	0.0	0.0	0.0
		Subdist. 1 Nome	0	0	0	0.98	0.0	0.0	0.0
		Pt. Clarence	0	0	0	0.98	0.0	0.0	0.0
			0	0	0	0.98	0.0	0.0	0.0
	Kotzebue Area	Kotzebue	0	0	2	0.94	0.0	0.0	0.0
Total			249,128						

Note: Harvest is the number of chum salmon reported to have been harvested in the area stratum.

Note: Harvest rate is the area stratum harvest divided by the total run within the WASSIP area for a given reporting group, expressed as a percent.

^a Adjusted median. Adjustment values vary by area stratum (see area stratum harvest and harvest rate Tables (7–115) for values.

Appendix D21.–South Peninsula reporting group, 2009, all strata. Reporting group-specific harvest and harvest rate estimates by area stratum. Medians, 90% credibility intervals, and the probability that reporting group harvest estimate is equal to zero ($P = 0$) are reported.

Region	Fishery	Area stratum	Harvest				Harvest Rate (%)		
			Median ^a	90% CI		$P = 0$	Median	90% CI	
				5%	95%			5%	95%
Westward	Chignik Area	Eastern	26	0	3,849	0.34	0.0	0.0	0.2
		Central	0	0	3,483	0.64	0.0	0.0	0.1
		Chignik Bay	0	0	0	1.00	0.0	0.0	0.0
		Western and Perryville	5,466	25	13,055	0.03	0.2	0.0	0.7
	SEDM	SEDM	117,426	107,159	128,301	0.00	4.3	1.3	9.1
	S. AK Pen June	Shumagin Islands	6,523	2,667	12,775	0.00	0.2	0.1	0.7
		Dolgoi Island	43	21	73	0.00	0.0	0.0	0.0
		Ikatan	187	34	665	0.00	0.0	0.0	0.0
		Unimak	826	398	1,398	0.00	0.0	0.0	0.1
	S. AK Pen post-June	Shumagin Islands	142,448	130,493	154,219	0.00	5.3	1.6	11.1
		Dolgoi Island	412,805	380,365	446,349	0.00	15.3	4.7	32.0
		Ikatan	169,277	155,544	182,875	0.00	6.2	1.9	13.1
	Northern District	Bear River	0	0	27	0.91	0.0	0.0	0.0
		Three Hills	0	0	1	0.95	0.0	0.0	0.0
Central	Bristol Bay Area	Eastside districts	0	0	313	0.72	0.0	0.0	0.0
		Nushagak	0	0	61	0.76	0.0	0.0	0.0
		Togiak	0	0	20	0.80	0.0	0.0	0.0
AYK	Kuskokwim Area	District 5	0	0	10	0.81	0.0	0.0	0.0
		District 4	0	0	8	0.88	0.0	0.0	0.0
		District 1	0	0	7	0.88	0.0	0.0	0.0
		Mekoryuk	0	0	0	1.00	0.0	0.0	0.0
		Toksook Bay	0	0	0	0.97	0.0	0.0	0.0
	Yukon Area summer	Hooper Bay	0	0	1	0.94	0.0	0.0	0.0
		Dist. 1 Scammon Bay	0	0	0	0.98	0.0	0.0	0.0
		Dist. 1 Black R. only	0	0	0	0.99	0.0	0.0	0.0
		Dist. 1 marine	0	0	1	0.94	0.0	0.0	0.0
	Yukon Area fall	Dist. 1 Black R. only ^b	0	0	0	1.00	0.0	0.0	0.0
		Dist. 1 marine	0	0	1	0.92	0.0	0.0	0.0
	Norton S. – P.C. Area	Stebbins	0	0	0	0.97	0.0	0.0	0.0
		St. Michael	0	0	0	0.98	0.0	0.0	0.0
		Subdist. 6 Unalakleet	0	0	2	0.91	0.0	0.0	0.0
		Subdist. 5 Shaktoolik	0	0	3	0.91	0.0	0.0	0.0
		Subdist. 3 Moses Point	0	0	0	0.97	0.0	0.0	0.0
		Subdist. 2 Golovin Bay	0	0	0	1.00	0.0	0.0	0.0
		Subdist. 1 Nome	0	0	0	0.99	0.0	0.0	0.0
		Pt. Clarence	0	0	0	0.98	0.0	0.0	0.0
	Kotzebue Area	Kotzebue	0	0	2	0.94	0.0	0.0	0.0
Total			855,027						

Note: Harvest is the number of chum salmon reported to have been harvested in the area stratum.

Note: Harvest rate is the area stratum harvest divided by the total run within the WASSIP area for a given reporting group, expressed as a percent.

^a Adjusted median. Adjustment values vary by area stratum (see area stratum harvest and harvest rate Tables (7–115) for values.

^b District 1 Black River only (fall), Commercial, Yukon-Northern Area had zero harvest in 2007 and 2009.

Appendix D22.—Chignik/Kodiak reporting group, 2007, all strata. Reporting group-specific harvest and harvest rate estimates by area stratum. Medians, 90% credibility intervals, and the probability that reporting group harvest estimate is equal to zero ($P = 0$) are reported.

Region	Fishery	Area stratum	Harvest				Harvest Rate (%)		
			Median ^a	90% CI		$P = 0$	Median	90% CI	
				5%	95%			5%	95%
Westward	Chignik Area	Eastern	1,631	1,004	2,419	0.00	0.1	0.0	0.3
		Central	10,622	9,351	11,848	0.00	0.4	0.1	1.6
		Chignik Bay	3,828	3,521	4,149	0.00	0.2	0.0	0.6
		Western and Perryville	30,807	26,589	33,009	0.00	1.2	0.3	4.7
	SEDM	SEDM	0	0	0	1.00	0.0	0.0	0.0
	S. AK Pen June	Shumagin Islands	4,202	2,281	5,876	0.00	0.2	0.0	0.7
		Dolgoi Island	13	3	31	0.00	0.0	0.0	0.0
		Ikatan	306	147	551	0.00	0.0	0.0	0.1
		Unimak	358	97	869	0.00	0.0	0.0	0.1
	S. AK Pen post-June	Shumagin Islands	36,063	29,324	42,875	0.00	1.5	0.3	5.6
		Dolgoi Island	12,688	7,938	17,146	0.00	0.5	0.1	2.0
		Ikatan	448	229	714	0.00	0.0	0.0	0.1
	Northern District	Bear River	0	0	36	0.89	0.0	0.0	0.0
		Three Hills	0	0	1,035	0.58	0.0	0.0	0.1
Central	Bristol Bay Area	Eastside districts	0	0	126	0.74	0.0	0.0	0.0
		Nushagak	0	0	74	0.76	0.0	0.0	0.0
		Togiak	0	0	52	0.77	0.0	0.0	0.0
AYK	Kuskokwim Area	District 5	0	0	16	0.76	0.0	0.0	0.0
		District 4	0	0	6	0.89	0.0	0.0	0.0
		District 1	0	0	1	0.94	0.0	0.0	0.0
		Mekoryuk	0	0	0	1.00	0.0	0.0	0.0
		Toksook Bay	0	0	0	0.98	0.0	0.0	0.0
	Yukon Area summer	Hooper Bay	0	0	0	0.96	0.0	0.0	0.0
		Dist. 1 Scammon Bay	0	0	0	0.96	0.0	0.0	0.0
		Dist. 1 Black R. only	0	0	0	0.95	0.0	0.0	0.0
		Dist. 1 marine	0	0	1	0.93	0.0	0.0	0.0
	Yukon Area fall	Dist. 1 Black R. only ^b	0	0	0	1.00	0.0	0.0	0.0
		Dist. 1 marine	0	0	4	0.91	0.0	0.0	0.0
	Norton S. – P.C. Area	Stebbins	0	0	0	0.97	0.0	0.0	0.0
		St. Michael	0	0	0	0.98	0.0	0.0	0.0
		Subdist. 6 Unalakleet	0	0	0	0.95	0.0	0.0	0.0
		Subdist. 5 Shaktoolik	0	0	0	0.96	0.0	0.0	0.0
		Subdist. 3 Moses Point	0	0	1	0.95	0.0	0.0	0.0
		Subdist. 2 Golovin Bay	0	0	0	1.00	0.0	0.0	0.0
		Subdist. 1 Nome	0	0	0	0.97	0.0	0.0	0.0
		Pt. Clarence	0	0	0	0.97	0.0	0.0	0.0
	Kotzebue Area	Kotzebue	0	0	2	0.94	0.0	0.0	0.0
Total			100,966						

Note: Harvest is the number of chum salmon reported to have been harvested in the area stratum.

Note: Harvest rate is the area stratum harvest divided by the total run within the WASSIP area for a given reporting group, expressed as a percent.

^a Adjusted median. Adjustment values vary by area stratum (see area stratum harvest and harvest rate Tables (7–115) for values.

^b District 1 Black River only (fall), Commercial, Yukon-Northern Area had zero harvest in 2007 and 2009.

Appendix D23.—Chignik/Kodiak reporting group, 2008, all strata. Reporting group-specific harvest and harvest rate estimates by area stratum. Medians, 90% credibility intervals, and the probability that reporting group harvest estimate is equal to zero ($P = 0$) are reported.

Region	Fishery	Area stratum	Harvest				Harvest Rate (%)		
			Median ^a	90% CI		$P = 0$	Median	90% CI	
				5%	95%			5%	95%
Westward	Chignik Area	Eastern	50,986	46,511	54,764	0.00	2.6	0.7	8.0
		Central	35,877	31,730	38,313	0.00	1.8	0.5	5.6
		Chignik Bay	13,453	12,374	14,592	0.00	0.7	0.2	2.1
		Western and Perryville	69,521	61,120	77,030	0.00	3.5	0.9	10.9
	SEDM	SEDM	14,406	11,380	17,451	0.00	0.7	0.2	2.3
	S. AK Pen June	Shumagin Islands	6,095	4,394	7,985	0.00	0.3	0.1	1.0
		Dolgoi Island	104	51	149	0.00	0.0	0.0	0.0
		Ikatan	77	0	488	0.15	0.0	0.0	0.0
		Unimak	6,958	3,444	9,945	0.00	0.3	0.1	1.1
	S. AK Pen post-June	Shumagin Islands	34,235	27,803	40,254	0.00	1.7	0.4	5.4
		Dolgoi Island	2,411	188	6,580	0.01	0.1	0.0	0.6
		Ikatan	188	0	1,097	0.23	0.0	0.0	0.1
	Northern District	Bear River	0	0	0	1.00	0.0	0.0	0.0
		Three Hills	0	0	124	0.57	0.0	0.0	0.0
Central	Bristol Bay Area	Eastside districts	10	0	1,252	0.43	0.0	0.0	0.1
		Nushagak	0	0	347	0.65	0.0	0.0	0.0
		Togiak	0	0	35	0.79	0.0	0.0	0.0
AYK	Kuskokwim Area	District 5	0	0	15	0.74	0.0	0.0	0.0
		District 4	0	0	6	0.88	0.0	0.0	0.0
		District 1	0	0	3	0.90	0.0	0.0	0.0
		Mekoryuk	0	0	0	1.00	0.0	0.0	0.0
		Toksook Bay	0	0	2	0.93	0.0	0.0	0.0
	Yukon Area summer	Hooper Bay	0	0	0	0.96	0.0	0.0	0.0
		Dist. 1 Scammon Bay	0	0	0	0.97	0.0	0.0	0.0
		Dist. 1 Black R. only	0	0	0	0.97	0.0	0.0	0.0
		Dist. 1 marine	0	0	1	0.95	0.0	0.0	0.0
	Yukon Area fall	Dist. 1 Black R. only	0	0	0	1.00	0.0	0.0	0.0
		Dist. 1 marine	0	0	345	0.69	0.0	0.0	0.0
	Norton S. – P.C. Area	Stebbins	0	0	0	0.96	0.0	0.0	0.0
		St. Michael	0	0	0	0.97	0.0	0.0	0.0
		Subdist. 6 Unalakleet	0	0	2	0.91	0.0	0.0	0.0
		Subdist. 5 Shaktoolik	0	0	2	0.91	0.0	0.0	0.0
		Subdist. 3 Moses Point	0	0	0	0.97	0.0	0.0	0.0
		Subdist. 2 Golovin Bay	0	0	0	0.99	0.0	0.0	0.0
		Subdist. 1 Nome	0	0	0	0.98	0.0	0.0	0.0
		Pt. Clarence	0	0	0	0.98	0.0	0.0	0.0
	Kotzebue Area	Kotzebue	0	0	2	0.94	0.0	0.0	0.0
Total			234,321						

Note: Harvest is the number of chum salmon reported to have been harvested in the area stratum.

Note: Harvest rate is the area stratum harvest divided by the total run within the WASSIP area for a given reporting group, expressed as a percent.

^a Adjusted median. Adjustment values vary by area stratum (see area stratum harvest and harvest rate Tables (7–115) for values.

Appendix D24.—Chignik/Kodiak reporting group, 2009, all strata. Reporting group-specific harvest and harvest rate estimates by area stratum. Medians, 90% credibility intervals, and the probability that reporting group harvest estimate is equal to zero ($P = 0$) are reported.

Region	Fishery	Area stratum	Harvest				Harvest Rate (%)		
			Median ^a	90% CI		$P = 0$	Median	90% CI	
				5%	95%			5%	95%
Westward	Chignik Area	Eastern	57,416	52,040	60,606	0.00	2.2	0.5	7.0
		Central	53,772	48,867	57,139	0.00	2.0	0.5	6.6
		Chignik Bay	14,552	13,384	15,772	0.00	0.6	0.1	1.8
		Western and Perryville	55,812	46,294	63,435	0.00	2.1	0.5	6.8
	SEDM	SEDM	30,218	22,665	36,605	0.00	1.1	0.3	3.7
	S. AK Pen June	Shumagin Islands	13,403	7,727	18,770	0.00	0.5	0.1	1.7
		Dolgoi Island	102	56	157	0.00	0.0	0.0	0.0
		Ikatan	666	214	1,282	0.00	0.0	0.0	0.1
		Unimak	1,948	1,074	2,991	0.00	0.1	0.0	0.3
	S. AK Pen post-June	Shumagin Islands	30,799	22,901	39,002	0.00	1.2	0.3	3.8
		Dolgoi Island	8,855	5,782	12,105	0.00	0.3	0.1	1.1
		Ikatan	782	9	3,378	0.00	0.0	0.0	0.2
	Northern District	Bear River	0	0	167	0.76	0.0	0.0	0.0
		Three Hills	0	0	23	0.91	0.0	0.0	0.0
Central	Bristol Bay Area	Eastside districts	0	0	187	0.73	0.0	0.0	0.0
		Nushagak	0	0	62	0.76	0.0	0.0	0.0
		Togiak	0	0	20	0.80	0.0	0.0	0.0
AYK	Kuskokwim Area	District 5	0	0	10	0.81	0.0	0.0	0.0
		District 4	0	0	8	0.88	0.0	0.0	0.0
		District 1	0	0	7	0.88	0.0	0.0	0.0
		Mekoryuk	0	0	0	1.00	0.0	0.0	0.0
		Toksook Bay	0	0	0	0.97	0.0	0.0	0.0
	Yukon Area summer	Hooper Bay	0	0	3	0.93	0.0	0.0	0.0
		Dist. 1 Scammon Bay	0	0	0	0.98	0.0	0.0	0.0
		Dist. 1 Black R. only	0	0	0	0.99	0.0	0.0	0.0
		Dist. 1 marine	0	0	1	0.94	0.0	0.0	0.0
	Yukon Area fall	Dist. 1 Black R. only ^b	0	0	0	1.00	0.0	0.0	0.0
		Dist. 1 marine	0	0	1	0.92	0.0	0.0	0.0
	Norton S. – P.C. Area	Stebbins	0	0	0	0.97	0.0	0.0	0.0
		St. Michael	0	0	0	0.98	0.0	0.0	0.0
		Subdist. 6 Unalakleet	0	0	2	0.91	0.0	0.0	0.0
		Subdist. 5 Shaktoolik	0	0	3	0.90	0.0	0.0	0.0
		Subdist. 3 Moses Point	0	0	0	0.97	0.0	0.0	0.0
		Subdist. 2 Golovin Bay	0	0	0	1.00	0.0	0.0	0.0
		Subdist. 1 Nome	0	0	0	0.99	0.0	0.0	0.0
		Pt. Clarence	0	0	0	0.98	0.0	0.0	0.0
	Kotzebue Area	Kotzebue	0	0	2	0.94	0.0	0.0	0.0
Total			268,325						

Note: Harvest is the number of chum salmon reported to have been harvested in the area stratum.

Note: Harvest rate is the area stratum harvest divided by the total run within the WASSIP area for a given reporting group, expressed as a percent.

^a Adjusted median. Adjustment values vary by area stratum (see area stratum harvest and harvest rate Tables (7–115) for values.

^b District 1 Black River only (fall), Commercial, Yukon-Northern Area had zero harvest in 2007 and 2009.

Appendix D25.—East of Kodiak reporting group, 2007, all strata. Reporting group-specific harvest and harvest rate estimates by area stratum. Medians, 90% credibility intervals, and the probability that reporting group harvest estimate is equal to zero ($P = 0$) are reported.

Region	Fishery	Area stratum	Harvest				Harvest Rate (%)		
			Median ^a	90% CI		$P = 0$	Median	90% CI	
				5%	95%			5%	95%
Westward	Chignik Area	Eastern	3,200	2,650	3,673	0.00	—	—	—
		Central	3,468	2,865	4,123	0.00	—	—	—
		Chignik Bay	0	0	0	1.00	—	—	—
		Western and Perryville	8,229	6,788	9,516	0.00	—	—	—
	SEDM	SEDM	0	0	0	1.00	—	—	—
	S. AK Pen June	Shumagin Islands	32,613	29,932	35,272	0.00	—	—	—
		Dolgoi Island	209	169	254	0.00	—	—	—
		Ikatan	3,532	3,020	4,083	0.00	—	—	—
		Unimak	5,887	4,802	7,083	0.00	—	—	—
	S. AK Pen post-June	Shumagin Islands	14,112	11,949	16,475	0.00	—	—	—
		Dolgoi Island	3,870	2,760	5,207	0.00	—	—	—
		Ikatan	156	87	253	0.00	—	—	—
	Northern District	Bear River	0	0	4	0.92	—	—	—
		Three Hills	2,290	1,507	3,194	0.00	—	—	—
Central	Bristol Bay Area	Eastside districts	0	0	199	0.61	—	—	—
		Nushagak	0	0	71	0.76	—	—	—
		Togiak	227	32	744	0.00	—	—	—
AYK	Kuskokwim Area	District 5	3	0	22	0.33	—	—	—
		District 4	0	0	5	0.89	—	—	—
		District 1	0	0	1	0.94	—	—	—
		Mekoryuk	0	0	0	1.00	—	—	—
		Toksook Bay	0	0	0	0.98	—	—	—
							—	—	—
	Yukon Area summer	Hooper Bay	0	0	0	0.96	—	—	—
		Dist. 1 Scammon Bay	0	0	0	0.96	—	—	—
		Dist. 1 Black R. only	0	0	1	0.95	—	—	—
		Dist. 1 marine	0	0	1	0.93	—	—	—
	Yukon Area fall	Dist. 1 Black R. only ^b	0	0	0	1.00	—	—	—
		Dist. 1 marine	0	0	4	0.91	—	—	—
	Norton S. – P.C. Area	Stebbins	0	0	1	0.93	—	—	—
		St. Michael	0	0	0	0.98	—	—	—
		Subdist. 6 Unalakleet	0	0	0	0.95	—	—	—
		Subdist. 5 Shaktoolik	0	0	0	0.96	—	—	—
		Subdist. 3 Moses Point	0	0	1	0.95	—	—	—
		Subdist. 2 Golovin Bay	0	0	0	1.00	—	—	—
		Subdist. 1 Nome	0	0	0	0.97	—	—	—
		Pt. Clarence	0	0	0	0.97	—	—	—
	Kotzebue Area	Kotzebue	0	0	1	0.94	—	—	—
Total			77,796						

Note: Harvest is the number of chum salmon reported to have been harvested in the area stratum.

Note: Harvest rate is the area stratum harvest divided by the total run within the WASSIP area for a given reporting group, expressed as a percent.

^a Adjusted median. Adjustment values vary by area stratum (see area stratum harvest and harvest rate Tables (7–115) for values.

^b District 1 Black River only (fall), Commercial, Yukon-Northern Area had zero harvest in 2007 and 2009.

Appendix D26.—East of Kodiak reporting group, 2008, all strata. Reporting group-specific harvest and harvest rate estimates by area stratum. Medians, 90% credibility intervals, and the probability that reporting group harvest estimate is equal to zero ($P = 0$) are reported.

Region	Fishery	Area stratum	Harvest				Harvest Rate (%)		
			Median ^a	90% CI		$P = 0$	Median	90% CI	
				5%	95%			5%	95%
Westward	Chignik Area	Eastern	1,481	1,105	7,118	0.00	—	—	—
		Central	1,148	425	2,070	0.00	—	—	—
		Chignik Bay	0	0	0	1.00	—	—	—
		Western and Perryville	1,693	637	3,562	0.00	—	—	—
	SEDM	SEDM	512	235	1,145	0.00	—	—	—
	S. AK Pen June	Shumagin Islands	11,789	9,971	13,758	0.00	—	—	—
		Dolgoi Island	199	161	240	0.00	—	—	—
		Ikatan	2,316	1,836	2,838	0.00	—	—	—
		Unimak	13,319	10,943	15,878	0.00	—	—	—
	S. AK Pen post-June	Shumagin Islands	17,924	15,443	20,476	0.00	—	—	—
		Dolgoi Island	381	144	788	0.00	—	—	—
		Ikatan	380	227	586	0.00	—	—	—
	Northern District	Bear River	0	0	0	1.00	—	—	—
		Three Hills	272	180	381	0.00	—	—	—
Central	Bristol Bay Area	Eastside districts	0	0	1,037	0.55	—	—	—
		Nushagak	133	0	672	0.11	—	—	—
		Togiak	0	0	34	0.79	—	—	—
AYK	Kuskokwim Area	District 5	3	0	24	0.31	—	—	—
		District 4	0	0	5	0.89	—	—	—
		District 1	0	0	3	0.91	—	—	—
		Mekoryuk	0	0	0	1.00	—	—	—
		Toksook Bay	0	0	0	0.98	—	—	—
	Yukon Area summer	Hooper Bay	0	0	0	0.96	—	—	—
		Dist. 1 Scammon Bay	0	0	0	0.97	—	—	—
		Dist. 1 Black R. only	0	0	0	0.96	—	—	—
		Dist. 1 marine	0	0	1	0.94	—	—	—
	Yukon Area fall	Dist. 1 Black R. only	0	0	0	1.00	—	—	—
		Dist. 1 marine	0	0	8	0.88	—	—	—
	Norton S. – P.C. Area	Stebbins	0	0	0	0.96	—	—	—
		St. Michael	0	0	0	0.97	—	—	—
		Subdist. 6 Unalakleet	0	0	3	0.91	—	—	—
		Subdist. 5 Shaktoolik	6	0	27	0.08	—	—	—
		Subdist. 3 Moses Point	0	0	0	0.97	—	—	—
		Subdist. 2 Golovin Bay	0	0	0	0.99	—	—	—
		Subdist. 1 Nome	0	0	0	0.98	—	—	—
		Pt. Clarence	0	0	0	0.98	—	—	—
	Kotzebue Area	Kotzebue	0	0	2	0.94	—	—	—
Total			51,556						

Note: Harvest is the number of chum salmon reported to have been harvested in the area stratum.

Note: Harvest rate is the area stratum harvest divided by the total run within the WASSIP area for a given reporting group, expressed as a percent.

^a Adjusted median. Adjustment values vary by area stratum (see area stratum harvest and harvest rate Tables (7–115) for values.

Appendix D27.—East of Kodiak reporting group, 2009, all strata. Reporting group-specific harvest and harvest rate estimates by area stratum. Medians, 90% credibility intervals, and the probability that reporting group harvest estimate is equal to zero ($P = 0$) are reported.

Region	Fishery	Area stratum	Harvest				Harvest Rate (%)		
			Median ^a	90% CI		$P = 0$	Median	90% CI	
				5%	95%			5%	95%
Westward	Chignik Area	Eastern	900	422	1,600	0.00	—	—	—
		Central	2,205	1,394	3,249	0.00	—	—	—
		Chignik Bay	0	0	0	1.00	—	—	—
		Western and Perryville	4,469	2,706	7,305	0.00	—	—	—
	SEDM	SEDM	1,266	705	2,072	0.00	—	—	—
	S. AK Pen June	Shumagin Islands	25,493	20,873	30,567	0.00	—	—	—
		Dolgoi Island	182	138	234	0.00	—	—	—
		Ikatan	2,732	2,065	3,495	0.00	—	—	—
		Unimak	3,481	2,668	4,429	0.00	—	—	—
	S. AK Pen post-June	Shumagin Islands	4,816	3,437	6,529	0.00	—	—	—
		Dolgoi Island	330	137	673	0.00	—	—	—
		Ikatan	162	68	317	0.00	—	—	—
	Northern District	Bear River	75	16	216	0.00	—	—	—
		Three Hills	0	0	27	0.76	—	—	—
Central	Bristol Bay Area	Eastside districts	0	0	1,781	0.53	—	—	—
		Nushagak	0	0	60	0.76	—	—	—
		Togiak	19	1	87	0.03	—	—	—
AYK	Kuskokwim Area	District 5	3	0	20	0.33	—	—	—
		District 4	0	0	8	0.88	—	—	—
		District 1	0	0	6	0.88	—	—	—
		Mekoryuk	0	0	0	1.00	—	—	—
		Toksook Bay	0	0	0	0.97	—	—	—
	Yukon Area summer	Hooper Bay	0	0	0	0.97	—	—	—
		Dist. 1 Scammon Bay	0	0	0	0.98	—	—	—
		Dist. 1 Black R. only	0	0	0	0.99	—	—	—
		Dist. 1 marine	0	0	1	0.94	—	—	—
	Yukon Area fall	Dist. 1 Black R. only ^b	0	0	0	1.00	—	—	—
		Dist. 1 marine	0	0	1	0.92	—	—	—
	Norton S. – P.C. Area	Stebbins	0	0	0	0.95	—	—	—
		St. Michael	0	0	0	0.98	—	—	—
		Subdist. 6 Unalakleet	0	0	2	0.91	—	—	—
		Subdist. 5 Shaktoolik	0	0	3	0.91	—	—	—
		Subdist. 3 Moses Point	0	0	0	0.97	—	—	—
		Subdist. 2 Golovin Bay	0	0	0	1.00	—	—	—
		Subdist. 1 Nome	0	0	0	0.99	—	—	—
		Pt. Clarence	0	0	0	0.98	—	—	—
	Kotzebue Area	Kotzebue	0	0	2	0.94	—	—	—
Total			46,133						

Note: Harvest is the number of chum salmon reported to have been harvested in the area stratum.

Note: Harvest rate is the area stratum harvest divided by the total run within the WASSIP area for a given reporting group, expressed as a percent.

^a Adjusted median. Adjustment values vary by area stratum (see area stratum harvest and harvest rate Tables (7–115) for values.

^b District 1 Black River only (fall), Commercial, Yukon-Northern Area had zero harvest in 2007 and 2009.