

**Compilation (2005–2019) of Genetic Stock  
Identification Estimates of Sockeye Salmon Harvest  
from Sampled Upper Cook Inlet Commercial  
Fisheries; Susitna River Components Reported both  
Separately and Combined**

by

**Andrew W. Barclay**

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February 2020

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Alaska Department of Fish and Game

Divisions of Commercial Fisheries



## Symbols and Abbreviations

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

***REGIONAL INFORMATION REPORT 5J20-02***

**COMPILATION (2005–2019) OF GENETIC STOCK IDENTIFICATION  
ESTIMATES OF SOCKEYE SALMON HARVEST FROM SAMPLED  
UPPER COOK INLET COMMERCIAL FISHERIES; SUSITNA RIVER  
COMPONENTS REPORTED BOTH SEPARATELY AND COMBINED**

by

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## INTRODUCTION

The Alaska Department of Fish and Game (ADF&G) has used genetic mixed stock analysis (MSA) to estimate stock-specific harvests of sockeye salmon *Oncorhynchus nerka* in the Central and Northern district commercial fisheries of Upper Cook Inlet (UCI) since 2005. Estimates have been reported for the following 8 reporting groups: 1) the largest producer of sockeye salmon on the west side of Cook Inlet (Crescent River; *Crescent*); 2) the remaining West Cook Inlet producers (*West*); 3) the lakes monitored by weirs in the Susitna/Yentna rivers (Judd/Chelatna/Larson lakes) with the addition of the Mama and Papa Bear lakes and Talkeetna Sloughs population (*JCL*); 4) the remaining producers in the Susitna/Yentna rivers (*SusYen*); 5) the only major creek monitored with a weir in the Knik/Turnagain/Northeast Cook Inlet area (Fish Creek; *Fish*); 6) the remaining Knik/Turnagain/Northeast Cook Inlet producers (*KTNE*); 7) the composite of all populations within the Kenai River (*Kenai*); and 8) the composite of all populations within the Kasilof River (*Kasilof*; Barclay et al. 2010a, 2010b, 2013, 2014, 2017; Barclay 2017; Barclay et al. 2018; Barclay 2019).

In December 2019, a member of the Alaska Board of Fisheries (BOF) requested that ADF&G provide estimates for Susitna River (*SusYen* and *JCL* combined) sockeye salmon in UCI commercial harvests for 2005–2019 prior to the BOF UCI finfish meeting in February 2020. This report serves to provide a compilation (2005–2019) of genetic stock identification estimates of sockeye salmon harvest from sampled UCI commercial fisheries with the Susitna River components reported both separately and combined. A memo to the BOF<sup>1</sup> uses this information, along with estimated stock compositions for unsampled UCI commercial fisheries and fishing periods, to estimate the total Susitna River stock harvests for all UCI commercial fisheries for these years.

## METHODS

Genetic MSA was performed on 195 mixtures of sockeye salmon sampled from the UCI commercial fishery in 2005–2019 (Barclay et al. 2010a, 2010b, 2013, 2014, 2017, 2018; Barclay 2019). These mixtures represented the majority—but not all—of the UCI commercial fishery harvest. In cases where not all the harvest was represented by mixtures, the table footnotes show the date ranges that were represented by strata. Stock composition estimates were produced for the 8 reporting groups by summarizing *BAYES* (Pella and Masuda 2001; 2005–2016) and *rubias* (Moran and Anderson 2019; 2017–2019) Markov Chain Monte Carlo (MCMC) distributions for each reporting group in each mixture following methods described in Barclay et al. (2017) and Barclay (2019), respectively. For each mixture, estimates for *SusYen* and *JCL* were summed at each iteration of the MCMC distribution to produce a new distribution for a Susitna River reporting group (*Susitna*). Stock composition estimates were summarized for the *Susitna* reporting group by tabulating summary statistics of the *Susitna* distribution following the same methods used for the original 8 reporting groups. Hereafter, *Crescent*, *West*, *Susitna*, *Fish*, *KTNE*, *Kenai*, and *Kasilof* will be referred to as regional reporting groups and *SusYen* and *JCL* will be referred to as subregional reporting groups of the *Susitna* regional reporting group.

Stock-specific harvests were calculated in the manner described by Barclay et al. (2010a). Briefly, mean harvest estimates, credibility intervals, and standard deviations for each temporal stratum

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<sup>1</sup> [http://www.adfg.alaska.gov/static-f/regulations/regprocess/fisheriesboard/pdfs/2019-2020/uci/2\\_Susitna\\_SOC.pdf](http://www.adfg.alaska.gov/static-f/regulations/regprocess/fisheriesboard/pdfs/2019-2020/uci/2_Susitna_SOC.pdf)

were calculated by multiplying the harvest from that stratum by its unrounded reporting group stock proportion estimates. Temporal strata were combined within fishing areas into annual estimates by weighting them by their respective harvests. Annual estimates were produced for the Central District drift, Kasilof River Special Harvest area drift/set, Upper Subdistrict, Northern District set, and west side set (Western, Kalgin Island, and Kustatan subdistricts) gillnet fishing areas. Annual estimates for each fishing area were combined into annual estimates for all sampling areas by weighting them by their respective harvests to arrive at overall annual estimates for the UCI commercial fishery. The harvest numbers used to calculate stock-specific harvests were pulled from the fish ticket database for the original reports (Barclay et al. 2010a, 2010b, 2013, 2014, 2017, 2018; Barclay 2019) and may differ from what is currently available.

## **RESULTS**

Annual stock-specific harvest estimates by fishing area for 2005–2019 can be found in Tables 1–15. Annual UCI stock-specific harvest estimates representing all analyzed strata from 2005 to 2019 can be found in Table 16. In the process of creating this report, errors in the stock composition estimates reported in Barclay et. al (2010a) were identified; see Appendix A1 and A2 for a comparison of the corrected and original estimates.

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## **TABLES AND FIGURES**

Table 1.—Stock-specific harvest and stock composition (%) estimates, including mean, 90% credibility interval (CI), and standard deviation (SD) calculated using a stratified estimator for combined strata in the Central District drift gillnet (4 strata) and Upper Subdistrict set gillnet (10 strata) fisheries and based on genetic analysis of mixtures of sockeye salmon harvested in Upper Cook Inlet, 2005.

Area strata	Reporting group		Harvest				Stock composition			
			90% CI				90% CI			
	Regional	Subregional	Mean	5%	95%	SD	Mean	5%	95%	SD
Central District drift gillnet <sup>a</sup>										
	<i>Crescent</i>		14,216	7	29,395	8,752	0.9	0.0	1.8	0.5
	<i>West</i>		32,236	20,034	47,990	8,679	2.0	1.2	3.0	0.5
	<i>Susitna</i>		42,273	29,489	57,383	8,628	2.6	1.8	3.5	0.5
	<i>Fish</i>		3,599	0	8,727	2,730	0.2	0.0	0.5	0.2
	<i>KTNE</i>		9,443	3,554	18,594	4,756	0.6	0.2	1.1	0.3
	<i>Kenai</i>		1,404,054	1,367,693	1,438,783	21,509	86.6	84.3	88.7	1.3
	<i>Kasilof</i>		116,269	88,086	146,491	17,749	7.2	5.4	9.0	1.1
	Total		1,622,090							
	<i>Susitna</i>	<i>JCL</i>	18,981	11,338	28,361	5,273	1.2	0.7	1.7	0.3
		<i>SusYen</i>	23,291	12,793	37,126	7,652	1.4	0.8	2.3	0.5
Upper Subdistrict set gillnet <sup>b</sup>										
	<i>Crescent</i>		352	0	2,022	1,290	0.0	0.0	0.1	0.1
	<i>West</i>		1,116	0	3,935	1,582	0.0	0.0	0.2	0.1
	<i>Susitna</i>		12,653	5,164	22,499	5,332	0.5	0.2	0.9	0.2
	<i>Fish</i>		336	0	1,845	1,081	0.0	0.0	0.1	0.0
	<i>KTNE</i>		5,377	1,237	12,349	3,619	0.2	0.1	0.5	0.1
	<i>Kenai</i>		1,532,433	1,480,311	1,584,711	31,820	62.4	60.3	64.5	1.3
	<i>Kasilof</i>		903,666	851,472	955,345	31,668	36.8	34.7	38.9	1.3
	Total		2,455,934							
	<i>Susitna</i>	<i>JCL</i>	8,197	2,832	15,730	4,012	0.3	0.1	0.6	0.2
		<i>SusYen</i>	4,456	11	13,128	4,439	0.2	0.0	0.5	0.2

Note: The 90% credibility intervals of harvest estimates may not include the point estimate for the very low harvest estimates.

Note: Stock composition and harvest estimates may not sum to 100% due to rounding errors.

Note: Harvest numbers were pulled from the fish ticket database for the original report (Barclay et al. 2010a).

<sup>a</sup> Central District drift gillnet includes harvests from noncorridor-only periods (June 27–August 8) and excludes harvests from Chinitna Bay (245-10).

<sup>b</sup> Upper Subdistrict set gillnet includes harvests from statistical areas 244-21, 22, 32, 41, and 42 (all season).

Table 2.—Stock-specific harvest and stock composition (%) estimates, mean, 90% credibility interval (CI), and standard deviation (SD) calculated using a stratified estimator for combined strata in the Central District drift (7 strata), Kasilof River Special Harvest Area drift/set (3 strata), Upper Subdistrict set (9 strata), Northern District set (1 stratum), and west side set (3 strata) gillnet fisheries and based on genetic analysis of mixtures of sockeye salmon harvested in Upper Cook Inlet, 2006.

Area strata	Reporting group		Harvest				Stock composition			
			Mean	90% CI		SD	Mean	90% CI		SD
	Regional	Subregional		5%	95%			5%	95%	
Central District drift gillnet <sup>a</sup>										
	<i>Crescent</i>		150	0	807	303	0.0	0.0	0.2	0.1
	<i>West</i>		26,381	21,489	31,589	3,075	6.9	5.6	8.3	0.8
	<i>Susitna</i>		37,878	32,158	43,768	3,522	9.9	8.4	11.4	0.9
	<i>Fish</i>		105	0	560	241	0.0	0.0	0.1	0.1
	<i>KTNE</i>		7,103	4,531	9,995	1,658	1.9	1.2	2.6	0.4
	<i>Kenai</i>		197,984	189,570	206,281	5,052	51.7	49.5	53.9	1.3
	<i>Kasilof</i>		113,148	106,474	120,026	4,114	29.6	27.8	31.4	1.1
	Total		382,749							
	<i>Susitna</i>	<i>JCL</i>	13,776	10,333	17,591	2,194	3.6	2.7	4.6	0.6
		<i>SusYen</i>	24,102	18,469	29,940	3,466	6.3	4.8	7.8	0.9
Kasilof River Special Harvest Area drift/set gillnet <sup>b</sup>										
	<i>Crescent</i>		495	0	2,256	834	0.1	0.0	0.4	0.1
	<i>West</i>		3,152	375	6,447	1,837	0.5	0.1	1.0	0.3
	<i>Susitna</i>		361	0	1,480	569	0.1	0.0	0.2	0.1
	<i>Fish</i>		41	0	180	219	0.0	0.0	0.0	0.0
	<i>KTNE</i>		1,789	0	4,604	1,462	0.3	0.0	0.7	0.2
	<i>Kenai</i>		29,232	21,605	37,750	4,935	4.7	3.4	6.0	0.8
	<i>Kasilof</i>		592,372	583,222	600,700	5,326	94.4	93.0	95.7	0.8
	Total		627,441							
	<i>Susitna</i>	<i>JCL</i>	307	0	1,330	498	0.0	0.0	0.2	0.1
		<i>SusYen</i>	54	0	236	283	0.0	0.0	0.0	0.0

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Table 2.–Page 2 of 3.

Area strata	Reporting group		Harvest				Stock composition			
			Mean	90% CI		SD	Mean	90% CI		SD
	Regional	Subregional		5%	95%			5%	95%	
Upper Subdistrict set gillnet <sup>c</sup>										
	<i>Crescent</i>		650	0	3,465	1,271	0.1	0.0	0.4	0.1
	<i>West</i>		6,210	923	12,201	3,414	0.6	0.1	1.3	0.4
	<i>Susitna</i>		2,281	176	6,109	1,968	0.2	0.0	0.6	0.2
	<i>Fish</i>		121	0	625	381	0.0	0.0	0.1	0.0
	<i>KTNE</i>		5,378	2,362	8,834	1,986	0.6	0.2	0.9	0.2
	<i>Kenai</i>		337,964	321,995	353,604	9,655	35.1	33.4	36.7	1.0
	<i>Kasilof</i>		610,516	594,795	626,519	9,653	63.4	61.8	65.1	1.0
	Total		963,120							
	<i>Susitna</i>	<i>JCL</i>	887	0	2,720	932	0.1	0.0	0.3	0.1
		<i>SusYen</i>	1,394	0	5,200	1,843	0.1	0.0	0.5	0.2
Northern District set gillnet <sup>d</sup>										
	<i>Crescent</i>		2	0	12	12	0.0	0.0	0.2	0.2
	<i>West</i>		309	58	575	157	5.6	1.0	10.4	2.8
	<i>Susitna</i>		1,019	740	1,309	172	18.4	13.4	23.7	3.1
	<i>Fish</i>		62	0	160	53	1.1	0.0	2.9	1.0
	<i>KTNE</i>		1,035	811	1,278	143	18.7	14.7	23.1	2.6
	<i>Kenai</i>		2,149	1,845	2,457	186	38.9	33.4	44.5	3.4
	<i>Kasilof</i>		950	716	1,197	146	17.2	13.0	21.6	2.6
	Total		5,527							
	<i>Susitna</i>	<i>JCL</i>	593	430	773	104	10.7	7.8	14.0	1.9
		<i>SusYen</i>	426	141	716	173	7.7	2.6	13.0	3.1

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Table 2.–Page 3 of 3.

Area strata	Reporting group		Harvest				Stock composition			
			Mean	90% CI		SD	Mean	90% CI		SD
	Regional	Subregional		5%	95%			5%	95%	
west side set gillnet <sup>e</sup>										
	<i>Crescent</i>		25,812	24,877	26,702	553	39.0	37.6	40.4	0.8
	<i>West</i>		17,523	15,781	19,350	1,083	26.5	23.9	29.3	1.6
	<i>Susitna</i>		2,921	1,819	4,127	700	4.4	2.8	6.2	1.1
	<i>Fish</i>		4	0	13	27	0.0	0.0	0.0	0.0
	<i>KTNE</i>		2,045	795	3,173	704	3.1	1.2	4.8	1.1
	<i>Kenai</i>		10,183	8,572	11,856	993	15.4	13.0	17.9	1.5
	<i>Kasilof</i>		7,626	6,287	9,028	829	11.5	9.5	13.7	1.3
	Total		66,114							
	<i>Susitna</i>	<i>JCL</i>	667	250	1,220	301	1.0	0.4	1.8	0.5
		<i>SusYen</i>	2,254	1,196	3,443	684	3.4	1.8	5.2	1.0

Note: The 90% credibility intervals of harvest estimates may not include the point estimate for the very low harvest estimates.

Note: Stock composition and harvest estimates may not sum to 100% due to rounding errors.

Note: Harvest numbers were pulled from the fish ticket database for the original report (Barclay et al. 2010a).

<sup>a</sup> Central District drift gillnet includes harvests from corridor-only periods (July 10–13 and July 17) and noncorridor-only periods (June 27–August 8), and excludes harvests from Chinitna Bay (245–10).

<sup>b</sup> Kasilof River Special Harvest Area includes harvests from drift and set gillnet (July 11–29).

<sup>c</sup> Upper Subdistrict set gillnet includes harvests from statistical areas 244–21, 22, 32, 41, and 42 (all season).

<sup>d</sup> Northern District set gillnet includes harvests from Eastern Subdistrict (August 7–September 14).

<sup>e</sup> West side set gillnet includes harvests from Western (June 19–August 17) and Kalgin Island (June 23–August 17) subdistricts.

Table 3.—Stock-specific harvest and stock composition (%) estimates, mean, 90% credibility interval (CI), and standard deviation (SD) calculated using a stratified estimator for combined strata in the Central District drift (7 strata), Upper Subdistrict set (9 strata), Northern District set (1 stratum), and west side set (3 strata) gillnet fisheries and based on genetic analysis of mixtures of sockeye salmon harvested in Upper Cook Inlet, 2007.

Area strata	Reporting group		Harvest				Stock composition			
			Mean	90% CI		SD	Mean	90% CI		SD
	Regional	Subregional		5%	95%			5%	95%	
Central District drift gillnet <sup>a</sup>										
	<i>Crescent</i>		12,722	7,036	20,339	4,129	0.8	0.4	1.2	0.2
	<i>West</i>		73,548	57,226	91,017	10,281	4.4	3.4	5.4	0.6
	<i>Susitna</i>		183,404	157,668	210,422	16,110	10.9	9.4	12.5	1.0
	<i>Fish</i>		6,113	2,566	11,417	2,800	0.4	0.2	0.7	0.2
	<i>KTNE</i>		46,702	32,580	62,866	9,259	2.8	1.9	3.7	0.5
	<i>Kenai</i>		1,090,269	1,048,722	1,131,562	25,316	64.7	62.2	67.2	1.5
	<i>Kasilof</i>		271,988	237,907	307,196	21,060	16.1	14.1	18.2	1.3
	Total		1,684,746							
	<i>Susitna</i>	<i>JCL</i>	102,678	83,272	123,565	12,342	6.1	4.9	7.3	0.7
		<i>SusYen</i>	80,726	55,379	107,473	15,834	4.8	3.3	6.4	0.9
Upper Subdistrict set gillnet <sup>b</sup>										
	<i>Crescent</i>		2,354	390	5,688	1,724	0.2	0.0	0.4	0.1
	<i>West</i>		42,154	26,450	59,950	10,082	3.2	2.0	4.5	0.8
	<i>Susitna</i>		51,954	36,085	69,564	10,292	3.9	2.7	5.2	0.8
	<i>Fish</i>		1,881	231	4,828	1,514	0.1	0.0	0.4	0.1
	<i>KTNE</i>		26,149	15,400	37,976	6,833	2.0	1.2	2.8	0.5
	<i>Kenai</i>		807,291	780,191	833,688	16,375	60.3	58.3	62.3	1.2
	<i>Kasilof</i>		405,992	382,012	430,514	14,801	30.3	28.6	32.2	1.1
	Total		1,337,776							
	<i>Susitna</i>	<i>JCL</i>	29,491	21,039	38,927	5,473	2.2	1.6	2.9	0.4
		<i>SusYen</i>	22,462	8,397	39,201	9,540	1.7	0.6	2.9	0.7

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Table 3.–Page 2 of 2.

Area strata	Reporting group		Harvest				Stock composition			
			Mean	90% CI		SD	Mean	90% CI		SD
	Regional	Subregional		5%	95%			5%	95%	
Northern District set gillnet <sup>c</sup>										
	<i>Crescent</i>		186	0	441	145	2.7	0.0	6.3	2.1
	<i>West</i>		111	0	553	198	1.6	0.0	7.9	2.8
	<i>Susitna</i>		952	627	1,318	210	13.7	9.0	18.9	3.0
	<i>Fish</i>		47	0	336	116	0.7	0.0	4.8	1.7
	<i>KTNE</i>		1,279	823	1,732	274	18.4	11.8	24.9	3.9
	<i>Kenai</i>		4,027	3,535	4,511	298	57.8	50.7	64.8	4.3
	<i>Kasilof</i>		363	109	662	169	5.2	1.6	9.5	2.4
	Total		6,966							
	<i>Susitna</i>	<i>JCL</i>	371	149	682	164	5.3	2.1	9.8	2.4
		<i>SusYen</i>	581	246	947	214	8.3	3.5	13.6	3.1
west side set gillnet <sup>d</sup>										
	<i>Crescent</i>		38,778	35,967	41,555	1,685	36.2	33.6	38.8	1.6
	<i>West</i>		36,331	32,956	39,708	2,068	33.9	30.8	37.1	1.9
	<i>Susitna</i>		2,718	1,604	4,002	731	2.5	1.5	3.7	0.7
	<i>Fish</i>		159	0	537	191	0.1	0.0	0.5	0.2
	<i>KTNE</i>		929	218	2,361	692	0.9	0.2	2.2	0.6
	<i>Kenai</i>		19,422	17,454	21,465	1,226	18.1	16.3	20.0	1.1
	<i>Kasilof</i>		8,835	7,094	10,645	1,085	8.2	6.6	9.9	1.0
	Total		107,172							
	<i>Susitna</i>	<i>JCL</i>	1,571	725	2,552	554	1.5	0.7	2.4	0.5
		<i>SusYen</i>	1,147	351	2,166	563	1.1	0.3	2.0	0.5

Note: The 90% credibility intervals of harvest estimates may not include the point estimate for the very low harvest estimates.

Note: Stock composition and harvest estimates may not sum to 100% due to rounding errors.

Note: Harvest numbers were pulled from the fish ticket database for the original report (Barclay et al. 2010a).

<sup>a</sup> Central District drift gillnet includes harvests from noncorridor-only periods (June 21–August 9), and excludes harvests from Chinitna Bay (245–10) and corridor-only fishing periods.

<sup>b</sup> Upper Subdistrict set gillnet includes harvests from statistical areas 244–21, 22, 32, 41, and 42 (all season). In the process of creating this report, errors in the stock composition estimates reported in Barclay et. al (2010a) were identified; see Appendix A1 for a comparison of the corrected and original estimates.

<sup>c</sup> Northern District set gillnet only includes harvests from Eastern Subdistrict (July 2–August 20).

<sup>d</sup> West side set gillnet includes harvests from Western (June 18–August 27) and Kalgin Island (June 22–August 18) subdistricts.

Table 4.—Stock-specific harvest and stock composition (%) estimates, mean, 90% credibility interval (CI), and standard deviation (SD) calculated using a stratified estimator for combined strata in the Central District drift (4 strata), Kasilof River Special Harvest Area drift/set (3 strata), Upper Subdistrict set (6 strata), Northern District set (2 strata), and west side set (3 strata) gillnet fisheries and based on genetic analysis of mixtures of sockeye salmon harvested in Upper Cook Inlet, 2008.

Area strata	Reporting group		Harvest				Stock composition			
			90% CI			SD	90% CI			SD
	Mean	5%	95%	Mean	5%		95%			
Central District drift gillnet <sup>a</sup>										
	<i>Crescent</i>		4,213	1,213	7,647	1,976	0.5	0.1	0.9	0.2
	<i>West</i>		25,898	17,714	34,961	5,289	3.1	2.1	4.2	0.6
	<i>Susitna</i>		97,234	82,743	112,654	9,100	11.7	10.0	13.6	1.1
	<i>Fish</i>		1,772	0	4,356	1,438	0.2	0.0	0.5	0.2
	<i>KTNE</i>		22,983	15,751	31,075	4,712	2.8	1.9	3.7	0.6
	<i>Kenai</i>		391,037	367,064	414,942	14,522	47.2	44.3	50.1	1.8
	<i>Kasilof</i>		285,556	263,632	307,672	13,420	34.5	31.8	37.1	1.6
	Total		828,693							
	<i>Susitna</i>	<i>JCL</i>	53,422	43,086	64,574	6,492	6.4	5.2	7.8	0.8
		<i>SusYen</i>	43,812	31,201	57,776	8,118	5.3	3.8	7.0	1.0
Kasilof River Special Harvest Area drift/set gillnet <sup>b</sup>										
	<i>Crescent</i>		72	0	301	108	0.1	0.0	0.4	0.1
	<i>West</i>		573	212	1,041	255	0.7	0.3	1.4	0.3
	<i>Susitna</i>		23	0	155	74	0.0	0.0	0.2	0.1
	<i>Fish</i>		4	0	20	24	0.0	0.0	0.0	0.0
	<i>KTNE</i>		815	402	1,317	280	1.1	0.5	1.7	0.4
	<i>Kenai</i>		2,904	2,048	3,863	558	3.8	2.7	5.0	0.7
	<i>Kasilof</i>		72,432	71,345	73,426	634	94.3	92.9	95.6	0.8
	Total		76,824							
	<i>Susitna</i>	<i>JCL</i>	2	0	9	14	0.0	0.0	0.0	0.0
		<i>SusYen</i>	21	0	148	73	0.0	0.0	0.2	0.1

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Table 4.–Page 2 of 3.

Area strata	Reporting group		Harvest				Stock composition			
			Mean	90% CI		SD	Mean	90% CI		SD
	Regional	Subregional		5%	95%			5%	95%	
Upper Subdistrict set gillnet <sup>c</sup>										
	<i>Crescent</i>		6,970	1,695	14,180	3,895	0.6	0.1	1.1	0.3
	<i>West</i>		9,764	3,789	20,050	5,302	0.8	0.3	1.6	0.4
	<i>Susitna</i>		32,144	22,926	42,828	6,091	2.6	1.8	3.4	0.5
	<i>Fish</i>		1,456	0	3,978	1,307	0.1	0.0	0.3	0.1
	<i>KTNE</i>		24,026	14,947	34,300	5,886	1.9	1.2	2.8	0.5
	<i>Kenai</i>		414,445	391,679	438,306	14,258	33.3	31.5	35.3	1.1
	<i>Kasilof</i>		753,931	729,169	778,153	14,984	60.7	58.7	62.6	1.2
	Total		1,242,737							
	<i>Susitna</i>	<i>JCL</i>	27,470	19,487	36,339	5,126	2.2	1.6	2.9	0.4
		<i>SusYen</i>	4,674	0	13,146	4,361	0.4	0.0	1.1	0.4
Northern District set gillnet <sup>d</sup>										
	<i>Crescent</i>		42	0	256	94	0.2	0.0	1.2	0.4
	<i>West</i>		2,004	1,200	2,755	470	9.5	5.7	13.1	2.2
	<i>Susitna</i>		5,469	4,743	6,224	453	25.9	22.5	29.5	2.1
	<i>Fish</i>		1,381	1,006	1,804	243	6.6	4.8	8.6	1.2
	<i>KTNE</i>		8,442	7,638	9,255	490	40.0	36.2	43.9	2.3
	<i>Kenai</i>		2,458	1,959	2,979	310	11.7	9.3	14.1	1.5
	<i>Kasilof</i>		1,292	909	1,715	245	6.1	4.3	8.1	1.2
	Total		21,088							
	<i>Susitna</i>	<i>JCL</i>	3,585	3,000	4,169	357	17.0	14.2	19.8	1.7
		<i>SusYen</i>	1,884	1,182	2,635	439	8.9	5.6	12.5	2.1

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Table 4.–Page 3 of 3.

Area strata	Reporting group		Harvest				Stock composition			
			Mean	90% CI		SD	Mean	90% CI		SD
	Regional	Subregional		5%	95%			5%	95%	
west side set gillnet <sup>e</sup>										
	<i>Crescent</i>		14,410	12,953	15,897	898	21.9	19.6	24.1	1.4
	<i>West</i>		29,810	27,806	31,825	1,231	45.2	42.2	48.3	1.9
	<i>Susitna</i>		890	369	1,580	371	1.4	0.6	2.4	0.6
	<i>Fish</i>		7	0	38	36	0.0	0.0	0.1	0.1
	<i>KTNE</i>		6,947	5,910	8,061	655	10.5	9.0	12.2	1.0
	<i>Kenai</i>		6,320	4,632	8,059	1,043	9.6	7.0	12.2	1.6
	<i>Kasilof</i>		7,541	5,934	9,355	1,037	11.4	9.0	14.2	1.6
	Total		65,926							
	<i>Susitna</i>	<i>JCL</i>	712	311	1,185	267	1.1	0.5	1.8	0.4
		<i>SusYen</i>	178	0	763	272	0.3	0.0	1.2	0.4

Note: The 90% credibility intervals of harvest estimates may not include the point estimate for the very low harvest estimates.

Note: Stock composition and harvest estimates may not sum to 100% due to rounding errors.

Note: Harvest numbers were pulled from the fish ticket database for the original report (Barclay et al. 2010a).

<sup>a</sup> Central District drift gillnet includes harvests from noncorridor-only periods (June 19–July 24), and excludes harvests from Chinitna Bay (245-10) and corridor-only fishing periods.

<sup>b</sup> Kasilof River Special Harvest Area includes harvests from drift and set gillnet (all season).

<sup>c</sup> Upper Subdistrict set gillnet includes harvests from statistical areas 244-21, 22, 32, 41, and 42 (all season). In the process of creating this report, errors in the stock composition estimates reported in Barclay et. al (2010a) were identified; see Appendix A2 for a comparison of the corrected and original estimates.

<sup>d</sup> Northern District set gillnet includes harvests from Eastern (July 7–August 18) and General (July 3–August 25) subdistricts.

<sup>e</sup> West side set gillnet includes harvests from Western (all season) and Kalgin Island (all season) subdistricts.

Table 5.—Stock-specific harvest and stock composition (%) estimates, mean, 90% credibility interval (CI), and standard deviation (SD) calculated using a stratified estimator for combined strata in the Central District drift (5 strata), Upper Subdistrict set (9 strata), Northern District set (3 strata), and west side set (3 strata) gillnet fisheries and based on genetic analysis of mixtures of sockeye salmon harvested in Upper Cook Inlet, 2009.

Area strata	Reporting group		Harvest				Stock composition			
			Mean	90% CI		SD	Mean	90% CI		SD
	Regional	Subregional		5%	95%			5%	95%	
Central District drift gillnet <sup>a</sup>										
	<i>Crescent</i>		5,744	1,454	13,706	3,885	0.6	0.2	1.4	0.4
	<i>West</i>		101,858	87,122	118,149	9,447	10.6	9.1	12.3	1.0
	<i>Susitna</i>		84,675	69,783	100,558	9,370	8.8	7.3	10.5	1.0
	<i>Fish</i>		18,060	11,058	26,384	4,684	1.9	1.2	2.7	0.5
	<i>KTNE</i>		27,222	19,519	36,220	5,124	2.8	2.0	3.8	0.5
	<i>Kenai</i>		570,553	544,998	595,932	15,479	59.5	56.8	62.1	1.6
	<i>Kasilof</i>		151,556	132,494	171,452	11,864	15.8	13.8	17.9	1.2
	Total		959,668							
	<i>Susitna</i>	<i>JCL</i>	38,216	28,930	48,423	5,962	4.0	3.0	5.0	0.6
		<i>SusYen</i>	46,458	32,740	61,622	8,765	4.8	3.4	6.4	0.9
Upper Subdistrict set gillnet <sup>b</sup>										
	<i>Crescent</i>		641	51	2,392	798	0.1	0.0	0.3	0.1
	<i>West</i>		10,101	5,154	15,829	3,289	1.1	0.6	1.7	0.4
	<i>Susitna</i>		10,811	6,606	15,891	2,844	1.2	0.7	1.8	0.3
	<i>Fish</i>		11,882	7,620	16,894	2,843	1.3	0.8	1.9	0.3
	<i>KTNE</i>		18,072	13,325	23,629	3,141	2.0	1.5	2.6	0.3
	<i>Kenai</i>		348,626	333,004	364,390	9,537	38.5	36.8	40.2	1.1
	<i>Kasilof</i>		505,719	489,335	521,869	9,882	55.8	54.0	57.6	1.1
	Total		905,852							
	<i>Susitna</i>	<i>JCL</i>	3,185	1,247	5,666	1,361	0.4	0.1	0.6	0.2
		<i>SusYen</i>	7,626	3,844	12,382	2,633	0.8	0.4	1.4	0.3

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Table 5.–Page 2 of 2.

Area strata	Reporting group		Harvest				Stock composition			
			Mean	90% CI		SD	Mean	90% CI		SD
	Regional	Subregional		5%	95%			5%	95%	
Northern District set gillnet <sup>c</sup>										
	<i>Crescent</i>		5	0	24	28	0.0	0.0	0.1	0.1
	<i>West</i>		10,799	9,845	11,779	588	27.4	25.0	29.9	1.5
	<i>Susitna</i>		6,810	5,950	7,681	528	17.3	15.1	19.5	1.3
	<i>Fish</i>		7,590	6,817	8,403	482	19.3	17.3	21.3	1.2
	<i>KTNE</i>		8,451	7,528	9,387	563	21.5	19.1	23.8	1.4
	<i>Kenai</i>		4,105	3,359	4,884	463	10.4	8.5	12.4	1.2
	<i>Kasilof</i>		1,602	1,127	2,122	303	4.1	2.9	5.4	0.8
	Total		39,362							
	<i>Susitna</i>	<i>JCL</i>	3,679	2,852	4,486	496	9.3	7.2	11.4	1.3
		<i>SusYen</i>	3,131	2,317	4,014	516	8.0	5.9	10.2	1.3
west side set gillnet <sup>d</sup>										
	<i>Crescent</i>		53,240	50,793	55,654	1,477	42.1	40.1	44.0	1.2
	<i>West</i>		40,701	37,219	44,190	2,118	32.1	29.4	34.9	1.7
	<i>Susitna</i>		225	0	801	275	0.2	0.0	0.6	0.2
	<i>Fish</i>		116	0	532	192	0.1	0.0	0.4	0.2
	<i>KTNE</i>		452	0	1,425	480	0.4	0.0	1.1	0.4
	<i>Kenai</i>		20,500	17,926	23,192	1,610	16.2	14.2	18.3	1.3
	<i>Kasilof</i>		11,366	9,135	13,752	1,402	9.0	7.2	10.9	1.1
	Total		126,601							
	<i>Susitna</i>	<i>JCL</i>	144	0	587	213	0.1	0.0	0.5	0.2
		<i>SusYen</i>	80	0	500	192	0.1	0.0	0.4	0.2

Note: The 90% credibility intervals of harvest estimates may not include the point estimate for the very low harvest estimates.

Note: Stock composition and harvest estimates may not sum to 100% due to rounding errors.

Note: Harvest numbers were pulled from the fish ticket database for the original report (Barclay et al. 2010b).

<sup>a</sup> Central District drift gillnet includes harvests from noncorridor-only periods (June 22–August 6), and excludes harvests from Chinitna Bay (245–10) and corridor-only fishing periods.

<sup>b</sup> Upper Subdistrict set gillnet includes harvests from statistical areas 244–21, 22, 32, 41, and 42 (all season).

<sup>c</sup> Northern District set gillnet includes harvests from Eastern Subdistrict (June 25–August 13) and the northern (247–41, 42, 43; July 9–August 20) and southern (247–10, 20, 30; July 2–August 3) portion of the General Subdistrict.

<sup>d</sup> West side set gillnet includes harvests from Western (June 18–August 13) and Kalgin Island (June 1–August 13) subdistricts.



Table 6.—Stock-specific harvest and stock composition (%) estimates, mean, 90% credibility interval (CI), and standard deviation (SD) calculated using a stratified estimator for combined strata in the Central District drift (7 strata), Upper Subdistrict set (10 strata), Northern District set (3 strata), and west side set (2 strata) gillnet fisheries and based on genetic analysis of mixtures of sockeye salmon harvested in Upper Cook Inlet, 2010.

Area strata	Reporting group		Harvest				Stock composition			
			Mean	90% CI		SD	Mean	90% CI		SD
	Regional	Subregional		5%	95%			5%	95%	
Central District drift gillnet <sup>a</sup>										
	<i>Crescent</i>		8,767	4,702	13,828	2,812	0.6	0.3	0.9	0.2
	<i>West</i>		122,890	106,172	140,422	10,405	7.9	6.8	9.0	0.7
	<i>Susitna</i>		93,568	79,663	108,486	8,790	6.0	5.1	7.0	0.6
	<i>Fish</i>		61,092	50,267	72,762	6,848	3.9	3.2	4.7	0.4
	<i>KTNE</i>		45,364	34,976	56,884	6,679	2.9	2.2	3.7	0.4
	<i>Kenai</i>		1,105,191	1,078,843	1,131,196	15,897	71.0	69.3	72.6	1.0
	<i>Kasilof</i>		120,306	105,826	135,631	9,074	7.7	6.8	8.7	0.6
	Total		1,557,178							
	<i>Susitna</i>	<i>JCL</i>	45,917	36,668	56,042	5,905	2.9	2.4	3.6	0.4
		<i>SusYen</i>	47,651	37,019	59,411	6,811	3.1	2.4	3.8	0.4
Upper Subdistrict set gillnet <sup>b</sup>										
	<i>Crescent</i>		1,076	170	2,629	796	0.1	0.0	0.2	0.1
	<i>West</i>		31,350	26,524	36,499	3,029	2.9	2.4	3.4	0.3
	<i>Susitna</i>		14,307	10,521	18,564	2,458	1.3	1.0	1.7	0.2
	<i>Fish</i>		21,883	17,091	27,192	3,088	2.0	1.6	2.5	0.3
	<i>KTNE</i>		26,569	21,776	31,800	3,054	2.4	2.0	2.9	0.3
	<i>Kenai</i>		692,977	679,717	706,005	8,003	63.8	62.6	65.0	0.7
	<i>Kasilof</i>		297,628	286,568	308,826	6,766	27.4	26.4	28.4	0.6
	Total		1,085,789							
	<i>Susitna</i>	<i>JCL</i>	7,191	4,798	10,049	1,607	0.7	0.4	0.9	0.1
		<i>SusYen</i>	7,115	4,139	10,674	1,999	0.7	0.4	1.0	0.2
Northern District set gillnet <sup>c</sup>										
	<i>Crescent</i>		1	0	4	6	0.0	0.0	0.0	0.0
	<i>West</i>		8,222	7,637	8,812	357	24.7	22.9	26.4	1.1

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Area strata	Reporting group		Harvest				Stock composition			
			90% CI			SD	90% CI			SD
	Regional	Subregional	Mean	5%	95%		Mean	5%	95%	
Northern District set gillnet (continued) <sup>c</sup>										
	<i>Susitna</i>		5,181	4,620	5,761	348	15.5	13.9	17.3	1.0
	<i>Fish</i>		10,156	9,527	10,787	384	30.5	28.6	32.4	1.2
	<i>KTNE</i>		6,660	6,008	7,330	401	20.0	18.0	22.0	1.2
	<i>Kenai</i>		3,025	2,568	3,508	285	9.1	7.7	10.5	0.9
	<i>Kasilof</i>		99	19	214	61	0.3	0.1	0.6	0.2
	Total		33,344							
	<i>Susitna</i>	<i>JCL</i>	2,238	1,841	2,661	249	6.7	5.5	8.0	0.7
		<i>SusYen</i>	2,943	2,475	3,439	293	8.8	7.4	10.3	0.9
west side set gillnet <sup>d</sup>										
	<i>Crescent</i>		41,180	39,718	42,617	883	37.0	35.6	38.2	0.8
	<i>West</i>		42,419	39,302	45,515	1,889	38.1	35.3	40.8	1.7
	<i>Susitna</i>		1,028	267	2,267	625	0.9	0.2	2.0	0.6
	<i>Fish</i>		773	269	1,463	372	0.7	0.2	1.3	0.3
	<i>KTNE</i>		404	41	1,113	353	0.4	0.0	1.0	0.3
	<i>Kenai</i>		20,360	17,754	23,038	1,605	18.3	15.9	20.7	1.4
	<i>Kasilof</i>		5,262	3,807	6,885	939	4.7	3.4	6.2	0.8
	Total		111,427							
	<i>Susitna</i>	<i>JCL</i>	312	0	910	310	0.3	0.0	0.8	0.3
		<i>SusYen</i>	716	27	2,208	697	0.6	0.0	2.0	0.6

Note: The 90% credibility intervals of harvest estimates may not include the point estimate for the very low harvest estimates.

Note: Stock composition and harvest estimates may not sum to 100% due to rounding errors.

Note: Harvest numbers were pulled from the fish ticket database for the original report (Barclay et al. 2013).

<sup>a</sup> Central District drift gillnet includes harvests from noncorridor-only (June 21–August 12) and corridor-only (July 21) periods and excludes harvests from Chinitna Bay (245–10) and corridor-only fishing periods (June 27–July 7 and July 28–August 10).

<sup>b</sup> Upper Subdistrict set gillnet includes harvests from statistical areas 244–21, 22, 32, 41, and 42 (all season).

<sup>c</sup> Northern District set gillnet includes harvests from Eastern Subdistrict (July 5–August 16) and the northern (247–41, 42, 43; July 5–August 16) and southern (247–10, 20, 30; July 15–August 16) portion of the General Subdistrict.

<sup>d</sup> West side set gillnet includes harvests from Western (June 21–August 9) and Kalgin Island (June 2–August 16) subdistricts. Western Subdistrict estimates were not reported in Barclay et al. (2013) because the BAYES chains for the Western Subdistrict mixture failed to converge due to a missing baseline population. Harvest for the Western Subdistrict is reported here for 2010 after the mixture was reanalyzed using the updated baseline (Barclay and Habicht 2012).

Table 7.—Stock-specific harvest and stock composition (%) estimates, mean, 90% credibility interval (CI), and standard deviation (SD) calculated using a stratified estimator for combined strata in the Central District drift (5 strata), Upper Subdistrict set (8 strata), Northern District set (2 strata), and west side set (2 strata) gillnet fisheries and based on genetic analysis of mixtures of sockeye salmon harvested in Upper Cook Inlet, 2011.

Area strata	Reporting group		Harvest				Stock composition			
			Mean	90% CI		SD	Mean	90% CI		SD
	Regional	Subregional		5%	95%			5%	95%	
Central District drift gillnet <sup>a</sup>										
	<i>Crescent</i>		7,591	3,736	13,883	3,222	0.2	0.1	0.5	0.1
	<i>West</i>		223,224	191,392	257,228	20,002	7.3	6.3	8.5	0.7
	<i>Susitna</i>		182,868	151,667	216,392	19,745	6.0	5.0	7.1	0.6
	<i>Fish</i>		58,310	41,891	77,082	10,732	1.9	1.4	2.5	0.4
	<i>KTNE</i>		54,827	37,505	75,002	11,487	1.8	1.2	2.5	0.4
	<i>Kenai</i>		2,360,587	2,306,779	2,412,607	32,237	77.6	75.8	79.3	1.1
	<i>Kasilof</i>		155,320	130,519	182,596	15,876	5.1	4.3	6.0	0.5
	Total		3,042,728							
	<i>Susitna</i>	<i>JCL</i>	76,818	57,814	97,908	12,221	2.5	1.9	3.2	0.4
		<i>SusYen</i>	106,050	80,371	134,654	16,515	3.5	2.6	4.4	0.5
Upper Subdistrict set gillnet <sup>b</sup>										
	<i>Crescent</i>		132	0	755	484	0.0	0.0	0.0	0.0
	<i>West</i>		12,389	7,866	17,859	3,062	0.7	0.4	1.0	0.2
	<i>Susitna</i>		21,803	14,219	30,758	5,066	1.2	0.8	1.6	0.3
	<i>Fish</i>		14,153	8,405	21,406	4,014	0.8	0.4	1.1	0.2
	<i>KTNE</i>		22,238	14,745	31,061	5,005	1.2	0.8	1.7	0.3
	<i>Kenai</i>		1,497,218	1,472,624	1,521,139	14,758	79.7	78.4	81.0	0.8
	<i>Kasilof</i>		309,728	288,977	331,412	12,957	16.5	15.4	17.7	0.7
	Total		1,877,662							
	<i>Susitna</i>	<i>JCL</i>	10,248	5,396	16,430	3,407	0.5	0.3	0.9	0.2
		<i>SusYen</i>	11,555	5,804	18,852	4,039	0.6	0.3	1.0	0.2

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Area strata	Reporting group		Harvest				Stock composition			
			Mean	90% CI		SD	Mean	90% CI		SD
	Regional	Subregional		5%	95%			5%	95%	
Northern District set gillnet <sup>c</sup>										
	<i>Crescent</i>		19	0	125	53	0.1	0.0	0.4	0.2
	<i>West</i>		5,572	4,697	6,486	544	17.4	14.6	20.2	1.7
	<i>Susitna</i>		10,788	9,692	11,897	672	33.6	30.2	37.0	2.1
	<i>Fish</i>		7,704	6,755	8,687	586	24.0	21.0	27.1	1.8
	<i>KTNE</i>		5,516	4,745	6,346	487	17.2	14.8	19.8	1.5
	<i>Kenai</i>		2,412	2,111	2,719	184	7.5	6.6	8.5	0.6
	<i>Kasilof</i>		101	39	185	46	0.3	0.1	0.6	0.1
	Total		32,112							
	<i>Susitna</i>	<i>JCL</i>	4,347	3,558	5,183	494	13.5	11.1	16.1	1.5
		<i>SusYen</i>	6,441	5,449	7,466	614	20.1	17.0	23.2	1.9
west side set gillnet <sup>d</sup>										
	<i>Crescent</i>		55,489	52,856	58,005	1,570	34.7	33.1	36.3	1.0
	<i>West</i>		54,768	50,208	59,352	2,780	34.3	31.4	37.2	1.7
	<i>Susitna</i>		2,059	910	3,486	791	1.3	0.6	2.2	0.5
	<i>Fish</i>		5	0	13	33	0.0	0.0	0.0	0.0
	<i>KTNE</i>		991	209	2,247	645	0.6	0.1	1.4	0.4
	<i>Kenai</i>		41,216	37,449	44,991	2,295	25.8	23.4	28.2	1.4
	<i>Kasilof</i>		5,170	3,474	7,111	1,112	3.2	2.2	4.5	0.7
	Total		159,698							
	<i>Susitna</i>	<i>JCL</i>	1,067	388	1,998	499	0.7	0.2	1.3	0.3
		<i>SusYen</i>	993	0	2,210	668	0.6	0.0	1.4	0.4

Note: The 90% credibility intervals of harvest estimates may not include the point estimate for the very low harvest estimates.

Note: Stock composition and harvest estimates may not sum to 100% due to rounding errors.

Note: Harvest numbers were pulled from the fish ticket database for the original report (Barclay et al. 2014).

<sup>a</sup> Central District drift gillnet includes harvests from corridor-only periods (July 11–22) and noncorridor-only periods (June 21–August 8), and excludes harvests from Chinitna Bay (245-10).

<sup>b</sup> Upper Subdistrict set gillnet includes harvests from statistical areas 244-21, 22, 32, 41, and 42 (all season).

<sup>c</sup> Northern District set gillnet includes harvests from Eastern (July 4–August 22) and General (July 5–August 16) subdistricts.

<sup>d</sup> West side set gillnet includes harvests from Western (June 16–August 22) and Kalgin Island (June 1–August 22) subdistricts.

Table 8.—Stock-specific harvest and stock composition (%) estimates, mean, 90% credibility interval (CI), and standard deviation (SD) calculated using a stratified estimator for combined strata in the Central District drift (6 strata), Upper Subdistrict set (2 strata), Northern District set (2 strata), and west side set (2 strata) gillnet fisheries and based on genetic analysis of mixtures of sockeye salmon harvested in Upper Cook Inlet, 2012.

Area strata	Reporting Group		Harvest				Stock Composition			
			Mean	90% CI		SD	Mean	90% CI		SD
	Regional	Subregional		5%	95%			5%	95%	
Central District drift gillnet <sup>a</sup>										
	<i>Crescent</i>		7,192	2,617	13,565	3,414	0.2	0.1	0.5	0.1
	<i>West</i>		104,277	82,897	128,416	13,891	3.6	2.9	4.4	0.5
	<i>Susitna</i>		170,219	140,063	202,635	19,051	5.9	4.8	7.0	0.7
	<i>Fish</i>		16,588	8,265	27,515	5,970	0.6	0.3	1.0	0.2
	<i>KTNE</i>		34,786	22,114	50,238	8,654	1.2	0.8	1.7	0.3
	<i>Kenai</i>		2,424,725	2,377,332	2,470,274	28,246	84.0	82.3	85.5	1.0
	<i>Kasilof</i>		130,354	105,675	157,460	15,767	4.5	3.7	5.5	0.5
	Total		2,888,140							
	<i>Susitna</i>	<i>JCL</i>	87,293	66,686	110,251	13,266	3.0	2.3	3.8	0.5
		<i>SusYen</i>	82,926	59,868	108,925	14,905	2.9	2.1	3.8	0.5
Upper Subdistrict set gillnet <sup>b</sup>										
	<i>Crescent</i>		11	0	22	73	0.0	0.0	0.0	0.1
	<i>West</i>		1,335	515	2,477	615	1.4	0.5	2.6	0.7
	<i>Susitna</i>		6,218	4,352	8,301	1,207	6.6	4.6	8.8	1.3
	<i>Fish</i>		1,569	727	2,652	594	1.7	0.8	2.8	0.6
	<i>KTNE</i>		3,968	2,428	5,781	1,025	4.2	2.6	6.1	1.1
	<i>Kenai</i>		56,472	53,123	59,727	2,008	59.7	56.1	63.1	2.1
	<i>Kasilof</i>		25,060	22,594	27,670	1,542	26.5	23.9	29.2	1.6
	Total		94,634							
	<i>Susitna</i>	<i>JCL</i>	1,749	865	2,881	622	1.8	0.9	3.0	0.7
		<i>SusYen</i>	4,469	2,786	6,369	1,094	4.7	2.9	6.7	1.2

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Reporting Group			Harvest				Stock Composition			
			90% CI			SD	90% CI			SD
Area strata	Regional	Subregional	Mean	5%	95%		Mean	5%	95%	
Northern District set gillnet <sup>c</sup>										
	<i>Crescent</i>		0	0	1	3	0.0	0.0	0.0	0.0
	<i>West</i>		1,280	992	1,592	183	10.5	8.1	13.1	1.5
	<i>Susitna</i>		1,720	1,428	2,035	184	14.1	11.7	16.7	1.5
	<i>Fish</i>		1,869	1,609	2,144	163	15.3	13.2	17.6	1.3
	<i>KTNE</i>		3,632	3,232	4,041	245	29.8	26.5	33.1	2.0
	<i>Kenai</i>		3,078	2,708	3,458	228	25.2	22.2	28.4	1.9
	<i>Kasilof</i>		611	427	819	120	5.0	3.5	6.7	1.0
	Total		12,191							
	<i>Susitna</i>	<i>JCL</i>	898	683	1,133	137	7.4	5.6	9.3	1.1
		<i>SusYen</i>	823	607	1,067	140	6.7	5.0	8.8	1.2
west side set gillnet <sup>d</sup>										
	<i>Crescent</i>		23,939	22,554	25,306	841	26.8	25.3	28.4	0.9
	<i>West</i>		32,283	29,593	35,012	1,646	36.2	33.2	39.2	1.8
	<i>Susitna</i>		797	237	1,560	410	0.9	0.3	1.7	0.5
	<i>Fish</i>		3	0	8	21	0.0	0.0	0.0	0.0
	<i>KTNE</i>		7	0	13	47	0.0	0.0	0.0	0.1
	<i>Kenai</i>		29,269	26,778	31,753	1,510	32.8	30.0	35.6	1.7
	<i>Kasilof</i>		2,942	1,931	4,109	665	3.3	2.2	4.6	0.7
	Total		89,240							
	<i>Susitna</i>	<i>JCL</i>	188	8	539	178	0.2	0.0	0.6	0.2
		<i>SusYen</i>	609	95	1,345	389	0.7	0.1	1.5	0.4

Note: The 90% credibility intervals of harvest estimates may not include the point estimate for the very low harvest estimates.

Note: Stock composition and harvest estimates may not sum to 100% due to rounding errors.

Note: Harvest numbers were pulled from the fish ticket database for the original report (Barclay et al. 2017).

<sup>a</sup> Central District drift gillnet includes harvests from corridor-only periods (July 9–31) and noncorridor-only periods (June 21–August 6), and excludes harvests from Chinitna Bay (245-10).

<sup>b</sup> Upper Subdistrict set gillnet includes harvests from statistical areas 244-21, 22, 32, 41, and 42 (all season).

<sup>c</sup> Northern District set gillnet includes harvests from Eastern Subdistrict (July 2–August 13) and the northern portion of the General Subdistrict (247-41, 42, 43; July 12–August 6).

<sup>d</sup> West side set gillnet includes harvests from Western (June 18–August 20) and Kalgin Island (June 1–August 16) subdistricts.

Table 9.—Stock-specific harvest and stock composition (%) estimates, mean, 90% credibility interval (CI), and standard deviation (SD) calculated using a stratified estimator for combined strata in the Central District drift (2 strata), Upper Subdistrict set (2 strata), Northern District set (2 strata), and west side set (2 strata) gillnet fisheries and based on genetic analysis of mixtures of sockeye salmon harvested in Upper Cook Inlet, 2013.

Area strata	Reporting Group		Harvest				Stock Composition			
			Mean	90% CI		SD	Mean	90% CI		SD
	Regional	Subregional		5%	95%			5%	95%	
Central District drift gillnet <sup>a</sup>										
	<i>Crescent</i>		6,956	1,066	16,647	5,015	0.4	0.1	1.0	0.3
	<i>West</i>		111,446	83,407	142,788	18,073	6.8	5.1	8.7	1.1
	<i>Susitna</i>		127,744	98,340	160,214	18,848	7.8	6.0	9.7	1.1
	<i>Fish</i>		2,268	376	5,411	1,632	0.1	0.0	0.3	0.1
	<i>KTNE</i>		21,985	10,143	37,294	8,399	1.3	0.6	2.3	0.5
	<i>Kenai</i>		1,281,528	1,230,840	1,329,787	30,027	77.8	74.7	80.7	1.8
	<i>Kasilof</i>		94,960	67,551	125,679	17,721	5.8	4.1	7.6	1.1
	Total		1,646,887							
	<i>Susitna</i>	<i>JCL</i>	85,398	61,654	112,298	15,451	5.2	3.7	6.8	0.9
		<i>SusYen</i>	42,346	25,299	63,107	11,615	2.6	1.5	3.8	0.7
Upper Subdistrict set gillnet <sup>b</sup>										
	<i>Crescent</i>		765	0	4,731	1,788	0.1	0.0	0.6	0.2
	<i>West</i>		8,179	1,375	15,521	4,215	1.0	0.2	1.8	0.5
	<i>Susitna</i>		54,502	42,013	68,214	7,984	6.4	4.9	8.0	0.9
	<i>Fish</i>		1,567	41	4,550	1,499	0.2	0.0	0.5	0.2
	<i>KTNE</i>		28,063	19,718	37,499	5,421	3.3	2.3	4.4	0.6
	<i>Kenai</i>		522,735	496,965	548,332	15,639	61.5	58.5	64.6	1.8
	<i>Kasilof</i>		233,650	210,909	256,613	13,895	27.5	24.8	30.2	1.6
	Total		849,461							
	<i>Susitna</i>	<i>JCL</i>	22,910	15,566	31,382	4,836	2.7	1.8	3.7	0.6
		<i>SusYen</i>	31,593	21,314	43,171	6,655	3.7	2.5	5.1	0.8

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Area strata	Reporting Group		Harvest				Stock Composition			
			Mean	90% CI		SD	Mean	90% CI		SD
	Regional	Subregional		5%	95%			5%	95%	
Northern District set gillnet <sup>c</sup>										
	<i>Crescent</i>		1	0	3	9	0.0	0.0	0.0	0.0
	<i>West</i>		6,867	6,206	7,538	405	38.3	34.6	42.1	2.3
	<i>Susitna</i>		4,492	3,918	5,074	352	25.1	21.9	28.3	2.0
	<i>Fish</i>		655	432	905	144	3.7	2.4	5.1	0.8
	<i>KTNE</i>		4,382	3,861	4,921	323	24.5	21.5	27.5	1.8
	<i>Kenai</i>		1,322	1,024	1,646	189	7.4	5.7	9.2	1.1
	<i>Kasilof</i>		198	89	339	77	1.1	0.5	1.9	0.4
	Total		17,918							
	<i>Susitna</i>	<i>JCL</i>	2,333	1,892	2,794	275	13.0	10.6	15.6	1.5
		<i>SusYen</i>	2,159	1,687	2,660	297	12.1	9.4	14.8	1.7
west side set gillnet <sup>d</sup>										
	<i>Crescent</i>		17,220	15,539	18,966	1,042	23.9	21.6	26.4	1.4
	<i>West</i>		36,548	34,364	38,714	1,323	50.8	47.8	53.8	1.8
	<i>Susitna</i>		352	68	793	230	0.5	0.1	1.1	0.3
	<i>Fish</i>		2	0	4	13	0.0	0.0	0.0	0.0
	<i>KTNE</i>		93	0	313	110	0.1	0.0	0.4	0.2
	<i>Kenai</i>		10,712	9,147	12,367	980	14.9	12.7	17.2	1.4
	<i>Kasilof</i>		7,032	5,766	8,390	799	9.8	8.0	11.7	1.1
	Total		71,957							
	<i>Susitna</i>	<i>JCL</i>	113	6	335	111	0.2	0.0	0.5	0.2
		<i>SusYen</i>	239	16	638	203	0.3	0.0	0.9	0.3

Note: The 90% credibility intervals of harvest estimates may not include the point estimate for the very low harvest estimates.

Note: Stock composition and harvest estimates may not sum to 100% due to rounding errors.

Note: Harvest numbers were pulled from the fish ticket database for the original report (Barclay et al. 2017).

<sup>a</sup> Central District drift gillnet includes harvests from corridor-only periods (July 11–30) and noncorridor-only periods (June 20–August 15), and excludes harvests from Chinitna Bay (245-10).

<sup>b</sup> Upper Subdistrict set gillnet includes harvests from statistical areas 244-21, 22, 32, 41, and 42 (all season).

<sup>c</sup> Northern District set gillnet includes harvests from Eastern Subdistrict (June 24–August 22) and the southern portion of the General Subdistrict (247-10, 20, 30; July 4–18).

<sup>d</sup> West side set gillnet includes harvests from Western (June 17–August 1) and Kalgin Island (June 3–August 19) subdistricts.



Table 10.—Stock-specific harvest and stock composition (%) estimates, mean, 90% credibility interval (CI), and standard deviation (SD) calculated using a stratified estimator for combined strata in the Central District drift (2 strata), Upper Subdistrict set (2 strata), Northern District set (2 strata), and west side set (2 strata) gillnet fisheries and based on genetic analysis of mixtures of sockeye salmon harvested in Upper Cook Inlet, 2014.

Area strata	Reporting Group		Harvest				Stock Composition			
			Mean	90% CI		SD	Mean	90% CI		SD
	Regional	Subregional		5%	95%			5%	95%	
Central District drift gillnet <sup>a</sup>										
	<i>Crescent</i>		131	0	303	931	0.0	0.0	0.0	0.1
	<i>West</i>		123,606	46,536	195,272	44,942	8.3	3.1	13.2	3.0
	<i>Susitna</i>		107,616	69,505	158,667	27,687	7.3	4.7	10.7	1.9
	<i>Fish</i>		10,080	0	28,218	9,711	0.7	0.0	1.9	0.7
	<i>KTNE</i>		42,256	15,180	104,334	27,420	2.8	1.0	7.0	1.8
	<i>Kenai</i>		1,045,017	971,432	1,118,067	44,645	70.5	65.5	75.4	3.0
	<i>Kasilof</i>		154,096	110,958	200,699	27,291	10.4	7.5	13.5	1.8
	Total		1,482,803							
	<i>Susitna</i>	<i>JCL</i>	49,706	26,624	75,614	14,935	3.4	1.8	5.1	1.0
		<i>SusYen</i>	57,910	24,625	114,844	27,807	3.9	1.7	7.7	1.9
Upper Subdistrict set gillnet <sup>b</sup>										
	<i>Crescent</i>		141	0	711	695	0.0	0.0	0.1	0.1
	<i>West</i>		1,837	0	6,551	2,436	0.3	0.0	1.2	0.5
	<i>Susitna</i>		2,280	0	7,851	2,852	0.4	0.0	1.5	0.5
	<i>Fish</i>		50	0	147	330	0.0	0.0	0.0	0.1
	<i>KTNE</i>		3,438	594	7,920	2,349	0.7	0.1	1.5	0.4
	<i>Kenai</i>		349,928	325,207	374,942	15,090	66.6	61.9	71.3	2.9
	<i>Kasilof</i>		167,978	143,640	192,026	14,692	32.0	27.3	36.5	2.8
	Total		525,653							
	<i>Susitna</i>	<i>JCL</i>	1,120	0	5,264	1,904	0.2	0.0	1.0	0.4
		<i>SusYen</i>	1,160	0	5,175	2,102	0.2	0.0	1.0	0.4

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Area strata	Reporting Group		Harvest				Stock Composition			
			Mean	90% CI		SD	Mean	90% CI		SD
	Regional	Subregional		5%	95%			5%	95%	
Northern District set gillnet <sup>c</sup>										
	<i>Crescent</i>		5	0	13	34	0.0	0.0	0.0	0.1
	<i>West</i>		9,615	8,385	11,032	804	28.6	24.9	32.8	2.4
	<i>Susitna</i>		10,461	9,143	11,799	806	31.1	27.2	35.1	2.4
	<i>Fish</i>		2,129	1,360	2,914	471	6.3	4.0	8.7	1.4
	<i>KTNE</i>		7,531	6,248	8,857	797	22.4	18.6	26.3	2.4
	<i>Kenai</i>		3,766	2,899	4,672	539	11.2	8.6	13.9	1.6
	<i>Kasilof</i>		141	0	746	260	0.4	0.0	2.2	0.8
	Total		33,647							
	<i>Susitna</i>	<i>JCL</i>	3,806	3,030	4,626	485	11.3	9.0	13.7	1.4
		<i>SusYen</i>	6,655	5,334	8,015	814	19.8	15.9	23.8	2.4
west side set gillnet <sup>d</sup>										
	<i>Crescent</i>		32,277	29,955	34,566	1,400	41.3	38.3	44.2	1.8
	<i>West</i>		29,162	26,012	32,271	1,903	37.3	33.3	41.3	2.4
	<i>Susitna</i>		3,411	1,954	5,475	1,074	4.4	2.5	7.0	1.4
	<i>Fish</i>		165	0	834	301	0.2	0.0	1.1	0.4
	<i>KTNE</i>		82	0	601	326	0.1	0.0	0.8	0.4
	<i>Kenai</i>		8,154	5,918	10,530	1,408	10.4	7.6	13.5	1.8
	<i>Kasilof</i>		4,921	3,236	6,667	1,049	6.3	4.1	8.5	1.3
	Total		78,173							
	<i>Susitna</i>	<i>JCL</i>	1,477	653	2,442	546	1.9	0.8	3.1	0.7
		<i>SusYen</i>	1,934	759	4,120	1,034	2.5	1.0	5.3	1.3

Note: The 90% credibility intervals of harvest estimates may not include the point estimate for the very low harvest estimates.

Note: Stock composition and harvest estimates may not sum to 100% due to rounding errors.

Note: Harvest numbers were pulled from the fish ticket database for the original report (Barclay et al. 2018).

<sup>a</sup> Central District drift gillnet includes harvests from corridor-only periods (July 9–31) and noncorridor-only periods (June 19–August 14), and excludes harvests from Chinitna Bay (245-10) and southern corridor (244-61).

<sup>b</sup> Upper Subdistrict set gillnet includes harvests from statistical areas 244-21, 22, 32, 41, and 42 (all season).

<sup>c</sup> Northern District set gillnet includes harvests from Eastern (June 30–August 18) and General (June 26–August 21) subdistricts.

<sup>d</sup> West side set gillnet includes harvests from Western (June 18–August 20) and Kalgin Island (June 1–August 16) subdistricts.

Table 11.—Stock-specific harvest and stock composition (%) estimates, mean, 90% credibility interval (CI), and standard deviation (SD) calculated using a stratified estimator for combined strata in the Central District drift (2 strata), Upper Subdistrict set (3 strata), Northern District set (1 stratum), and west side set (1 stratum) gillnet fisheries and based on genetic analysis of mixtures of sockeye salmon harvested in Upper Cook Inlet, 2015.

Area strata	Reporting Group		Harvest				Stock Composition			
	Regional	Subregional	Mean	90% CI		SD	Mean	90% CI		SD
				5%	95%			5%	95%	
Central District drift gillnet <sup>a</sup>										
	<i>Crescent</i>		2,413	0	13,653	4,950	0.2	0.0	1.4	0.5
	<i>West</i>		74,124	45,478	120,899	22,595	7.5	4.6	12.3	2.3
	<i>Susitna</i>		117,589	76,801	155,221	23,407	12.0	7.8	15.8	2.4
	<i>Fish</i>		907	0	6,480	2,461	0.1	0.0	0.7	0.3
	<i>KTNE</i>		16,897	5,412	32,073	8,380	1.7	0.6	3.3	0.9
	<i>Kenai</i>		716,851	672,217	759,731	26,508	73.0	68.4	77.4	2.7
	<i>Kasilof</i>		53,285	31,732	77,422	13,915	5.4	3.2	7.9	1.4
	Total		982,067							
	<i>Susitna</i>	<i>JCL</i>	21,353	12,129	32,477	6,215	2.2	1.2	3.3	0.6
		<i>SusYen</i>	96,236	54,947	133,554	23,421	9.8	5.6	13.6	2.4
Upper Subdistrict set gillnet <sup>b</sup>										
	<i>Crescent</i>		369	0	1,985	1,702	0.0	0.0	0.1	0.1
	<i>West</i>		5,482	0	14,036	4,872	0.4	0.0	1.0	0.4
	<i>Susitna</i>		60,829	35,971	90,362	16,648	4.4	2.6	6.6	1.2
	<i>Fish</i>		11,197	2,832	22,530	6,077	0.8	0.2	1.6	0.4
	<i>KTNE</i>		12,252	4,960	22,355	5,471	0.9	0.4	1.6	0.4
	<i>Kenai</i>		919,957	871,634	967,940	29,275	66.7	63.2	70.2	2.1
	<i>Kasilof</i>		369,247	326,432	412,019	26,024	26.8	23.7	29.9	1.9
	Total		1,379,333							
	<i>Susitna</i>	<i>JCL</i>	13,065	4,037	25,412	6,645	0.9	0.3	1.8	0.5
		<i>SusYen</i>	47,764	23,091	77,239	16,585	3.5	1.7	5.6	1.2

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Table 11.–Page 2 of 2.

Area strata	Reporting Group		Harvest				Stock Composition			
			Mean	90% CI		SD	Mean	90% CI		SD
	Regional	Subregional		5%	95%			5%	95%	
Northern District set gillnet <sup>c</sup>										
	<i>Crescent</i>		5	0	2	45	0.0	0.0	0.0	0.1
	<i>West</i>		13,858	10,274	17,968	2,375	26.9	20.0	34.9	4.6
	<i>Susitna</i>		20,074	16,609	23,493	2,095	39.0	32.3	45.7	4.1
	<i>Fish</i>		5,146	2,676	7,325	1,389	10.0	5.2	14.2	2.7
	<i>KTNE</i>		7,644	4,929	11,606	2,064	14.9	9.6	22.6	4.0
	<i>Kenai</i>		4,686	2,718	6,916	1,276	9.1	5.3	13.4	2.5
	<i>Kasilof</i>		13	0	14	88	0.0	0.0	0.0	0.2
	Total		51,426							
	<i>Susitna</i>	<i>JCL</i>	4,963	3,205	6,773	1,079	9.7	6.2	13.2	2.1
		<i>SusYen</i>	15,111	11,434	18,836	2,253	29.4	22.2	36.6	4.4
west side set gillnet <sup>d</sup>										
	<i>Crescent</i>		37,407	32,256	42,665	3,166	37.7	32.5	43.0	3.2
	<i>West</i>		37,355	32,029	42,770	3,262	37.7	32.3	43.1	3.3
	<i>Susitna</i>		1,951	513	4,235	1,218	2.0	0.5	4.3	1.2
	<i>Fish</i>		32	0	43	205	0.0	0.0	0.0	0.2
	<i>KTNE</i>		185	0	1,048	609	0.2	0.0	1.1	0.6
	<i>Kenai</i>		16,921	12,532	21,632	2,764	17.1	12.6	21.8	2.8
	<i>Kasilof</i>		5,342	3,139	7,874	1,446	5.4	3.2	7.9	1.5
	Total		99,193							
	<i>Susitna</i>	<i>JCL</i>	1,611	409	3,199	864	1.6	0.4	3.2	0.9
		<i>SusYen</i>	340	0	2,505	1,004	0.3	0.0	2.5	1.0

Note: The 90% credibility intervals of harvest estimates may not include the point estimate for the very low harvest estimates.

Note: Stock composition and harvest estimates may not sum to 100% due to rounding errors.

Note: Harvest numbers were pulled from the fish ticket database for the original report (Barclay 2019).

<sup>a</sup> Central District drift gillnet includes harvests from corridor-only periods (July 11–August 12) and noncorridor-only periods (June 22–August 17), and excludes harvests from Chinitna Bay (245-10).

<sup>b</sup> Upper Subdistrict set gillnet includes harvests from statistical areas 244-21, 22, 32, 41, and 42 (all season).

<sup>c</sup> Northern District set gillnet includes harvests from Eastern and General subdistricts (June 29–August 20).

<sup>d</sup> West side set gillnet includes harvests from Western, Kustatan, and Kalgin Island subdistricts (June 3–August 17).

Table 12.—Stock-specific harvest and stock composition (%) estimates, mean, 90% credibility interval (CI), and standard deviation (SD) calculated using a stratified estimator for combined strata in the Central District drift (2 strata), Upper Subdistrict set (1 stratum), Northern District set (1 stratum), and west side set (1 stratum) gillnet fisheries and based on genetic analysis of mixtures of sockeye salmon harvested in Upper Cook Inlet, 2016.

Area strata	Reporting Group		Harvest				Stock Composition			
			Mean	90% CI		SD	Mean	90% CI		SD
	Regional	Subregional		5%	95%			5%	95%	
Central District drift gillnet <sup>a</sup>										
	<i>Crescent</i>		143	0	349	953	0.0	0.0	0.0	0.1
	<i>West</i>		3,948	0	19,188	7,180	0.3	0.0	1.5	0.6
	<i>Susitna</i>		98,533	66,749	133,908	20,463	7.8	5.3	10.6	1.6
	<i>Fish</i>		14,193	4,713	26,489	6,737	1.1	0.4	2.1	0.5
	<i>KTNE</i>		20,135	10,455	32,345	6,792	1.6	0.8	2.6	0.5
	<i>Kenai</i>		1,120,343	1,081,407	1,155,778	22,654	88.9	85.8	91.7	1.8
	<i>Kasilof</i>		2,912	0	15,053	5,647	0.2	0.0	1.2	0.4
	Total		1,260,206							
	<i>Susitna</i>	<i>JCL</i>	37,721	24,093	53,401	8,976	3.0	1.9	4.2	0.7
		<i>SusYen</i>	60,813	31,546	94,223	19,149	4.8	2.5	7.5	1.5
Upper Subdistrict set gillnet <sup>b</sup>										
	<i>Crescent</i>		718	0	3,973	3,413	0.1	0.0	0.4	0.3
	<i>West</i>		274	0	135	2,136	0.0	0.0	0.0	0.2
	<i>Susitna</i>		5,737	0	45,136	16,413	0.6	0.0	4.5	1.6
	<i>Fish</i>		179	0	130	1,302	0.0	0.0	0.0	0.1
	<i>KTNE</i>		27,302	13,173	44,734	9,712	2.7	1.3	4.5	1.0
	<i>Kenai</i>		822,306	773,245	865,175	28,176	82.4	77.5	86.7	2.8
	<i>Kasilof</i>		141,336	103,986	181,296	23,504	14.2	10.4	18.2	2.4
	Total		997,853							
	<i>Susitna</i>	<i>JCL</i>	150	0	129	1,064	0.0	0.0	0.0	0.1
		<i>SusYen</i>	5,587	0	45,045	16,392	0.6	0.0	4.5	1.6

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Table 12.–Page 2 of 2.

Area strata	Reporting Group		Harvest				Stock Composition			
			90% CI			SD	90% CI			SD
	Regional	Subregional	Mean	5%	95%		Mean	5%	95%	
Northern District set gillnet <sup>c</sup>										
	<i>Crescent</i>		26	0	117	130	0.1	0.0	0.3	0.3
	<i>West</i>		6,890	4,300	10,291	1,860	15.8	9.8	23.6	4.3
	<i>Susitna</i>		15,239	12,334	18,136	1,763	34.9	28.2	41.5	4.0
	<i>Fish</i>		6,891	5,396	8,482	940	15.8	12.4	19.4	2.2
	<i>KTNE</i>		5,783	4,007	8,005	1,226	13.2	9.2	18.3	2.8
	<i>Kenai</i>		8,817	6,484	11,235	1,447	20.2	14.8	25.7	3.3
	<i>Kasilof</i>		46	0	319	196	0.1	0.0	0.7	0.4
	Total		43,691							
	<i>Susitna</i>	<i>JCL</i>	6,647	5,118	8,288	962	15.2	11.7	19.0	2.2
		<i>SusYen</i>	8,591	5,741	11,511	1,754	19.7	13.1	26.3	4.0
west side set gillnet <sup>d</sup>										
	<i>Crescent</i>		31,413	26,101	36,914	3,275	38.5	32.0	45.3	4.0
	<i>West</i>		20,733	14,313	27,696	4,120	25.4	17.6	34.0	5.1
	<i>Susitna</i>		5,052	2,349	10,841	2,660	6.2	2.9	13.3	3.3
	<i>Fish</i>		217	0	1,376	503	0.3	0.0	1.7	0.6
	<i>KTNE</i>		242	0	1,856	841	0.3	0.0	2.3	1.0
	<i>Kenai</i>		21,658	16,659	26,856	3,097	26.6	20.4	32.9	3.8
	<i>Kasilof</i>		2,228	725	4,012	1,010	2.7	0.9	4.9	1.2
	Total		81,542							
	<i>Susitna</i>	<i>JCL</i>	3,409	1,988	5,086	942	4.2	2.4	6.2	1.2
		<i>SusYen</i>	1,644	20	7,323	2,506	2.0	0.0	9.0	3.1

Note: The 90% credibility intervals of harvest estimates may not include the point estimate for the very low harvest estimates.

Note: Stock composition and harvest estimates may not sum to 100% due to rounding errors.

Note: Harvest numbers were pulled from the fish ticket database for the original report (Barclay 2019).

<sup>a</sup> Central District drift gillnet includes harvests from corridor-only periods (July 9–August 3) and noncorridor-only periods (June 20–August 15), and excludes harvests from Chinitna Bay (245-10). Central District drift estimates differ from what was reported in Barclay (2019) due to a correction made to the harvest represented for excluding corridor-only periods.

<sup>b</sup> Upper Subdistrict set gillnet includes harvests from statistical areas 244-21, 22, 32, 41, and 42 (all season).

<sup>c</sup> Northern District set gillnet includes harvests from Eastern and General subdistricts (June 30–August 18).

<sup>d</sup> West side set gillnet includes harvests from Western, Kustatan, and Kalgin Island subdistricts (June 13–August 15).

Table 13.—Stock-specific harvest and stock composition (%) estimates, mean, 90% credibility interval (CI), and standard deviation (SD) calculated using a stratified estimator for combined strata in the Central District drift (2 strata), Upper Subdistrict set (1 stratum), Northern District set (1 stratum), and west side set (1 stratum) gillnet fisheries and based on genetic analysis of mixtures of sockeye salmon harvested in Upper Cook Inlet, 2017.

Area strata	Reporting Group		Harvest				Stock Composition			
			Mean	90% CI		SD	Mean	90% CI		SD
	Regional	Subregional		5%	95%			5%	95%	
Central District drift gillnet <sup>a</sup>										
	<i>Crescent</i>		24,811	12,153	38,858	8,312	2.9	1.4	4.5	1.0
	<i>West</i>		121,962	99,806	146,110	13,997	14.2	11.6	17.0	1.6
	<i>Susitna</i>		107,750	85,078	134,348	14,978	12.5	9.9	15.6	1.7
	<i>Fish</i>		20,026	11,856	30,163	5,748	2.3	1.4	3.5	0.7
	<i>KTNE</i>		30,065	16,936	44,814	8,727	3.5	2.0	5.2	1.0
	<i>Kenai</i>		466,129	429,099	502,340	22,459	54.1	49.8	58.3	2.6
	<i>Kasilof</i>		90,497	66,916	115,556	14,645	10.5	7.8	13.4	1.7
	Total		861,240							
	<i>Susitna</i>	<i>JCL</i>	31,661	19,947	44,879	7,565	3.7	2.3	5.2	0.9
		<i>SusYen</i>	76,089	53,969	101,086	14,340	8.8	6.3	11.7	1.7
Upper Subdistrict set gillnet <sup>b</sup>										
	<i>Crescent</i>		5,609	0	22,156	7,827	0.7	0.0	2.7	0.9
	<i>West</i>		45,256	24,673	68,190	13,244	5.4	3.0	8.2	1.6
	<i>Susitna</i>		66,903	38,829	99,079	18,572	8.0	4.7	11.9	2.2
	<i>Fish</i>		30,461	16,488	47,109	9,365	3.7	2.0	5.7	1.1
	<i>KTNE</i>		25,232	10,475	44,229	10,473	3.0	1.3	5.3	1.3
	<i>Kenai</i>		418,589	371,409	467,062	29,063	50.3	44.6	56.1	3.5
	<i>Kasilof</i>		240,171	202,243	278,540	22,955	28.9	24.3	33.5	2.8
	Total		832,220							
	<i>Susitna</i>	<i>JCL</i>	1,641	0	7,980	2,928	0.2	0.0	1.0	0.4
		<i>SusYen</i>	65,262	36,693	97,377	18,450	7.8	4.4	11.7	2.2

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Area strata	Reporting Group		Harvest				Stock Composition			
			90% CI			SD	90% CI			SD
	Regional	Subregional	Mean	5%	95%		Mean	5%	95%	
Northern District set gillnet <sup>c</sup>										
	<i>Crescent</i>		131	0	856	315	0.3	0.0	1.7	0.6
	<i>West</i>		10,650	8,540	12,994	1,355	21.4	17.1	26.1	2.7
	<i>Susitna</i>		9,500	7,238	11,933	1,426	19.0	14.5	23.9	2.9
	<i>Fish</i>		10,881	9,041	12,877	1,188	21.8	18.1	25.8	2.4
	<i>KTNE</i>		11,492	9,141	13,940	1,433	23.0	18.3	27.9	2.9
	<i>Kenai</i>		6,853	4,917	8,920	1,186	13.7	9.9	17.9	2.4
	<i>Kasilof</i>		373	0	1,368	506	0.7	0.0	2.7	1.0
	Total		49,881							
	<i>Susitna</i>	<i>JCL</i>	3,517	2,237	5,016	855	7.0	4.5	10.1	1.7
		<i>SusYen</i>	5,984	3,736	8,414	1,403	12.0	7.5	16.9	2.8
west side set gillnet <sup>d</sup>										
	<i>Crescent</i>		24,788	21,544	28,081	2,026	35.7	31.0	40.5	2.9
	<i>West</i>		23,332	19,884	26,820	2,116	33.6	28.6	38.6	3.0
	<i>Susitna</i>		1,981	538	3,934	1,057	2.9	0.8	5.7	1.5
	<i>Fish</i>		416	0	1,116	372	0.6	0.0	1.6	0.5
	<i>KTNE</i>		2,369	901	4,357	1,082	3.4	1.3	6.3	1.6
	<i>Kenai</i>		14,951	11,565	18,474	2,118	21.5	16.7	26.6	3.1
	<i>Kasilof</i>		1,583	0	3,388	1,052	2.3	0.0	4.9	1.5
	Total		69,420							
	<i>Susitna</i>	<i>JCL</i>	670	1	1,663	523	1.0	0.0	2.4	0.8
		<i>SusYen</i>	1,311	52	3,205	996	1.9	0.1	4.6	1.4

Note: The 90% credibility intervals of harvest estimates may not include the point estimate for the very low harvest estimates.

Note: Stock composition and harvest estimates may not sum to 100% due to rounding errors.

Note: Harvest numbers were pulled from the fish ticket database for the original report (Barclay 2019).

<sup>a</sup> Central District drift gillnet includes harvests from corridor-only periods (July 12–29) and noncorridor-only periods (June 19–August 21), and excludes harvests from Chinitna Bay (245-10).

<sup>b</sup> Upper Subdistrict set gillnet includes harvests from statistical areas 244-21, 22, 32, 41, and 42 (all season).

<sup>c</sup> Northern District set gillnet includes harvests from Eastern and General subdistricts (June 29–August 17).

<sup>d</sup> West side set gillnet includes harvests from Western, Kustatan, and Kalgin Island subdistricts (June 12–August 14).



Table 14.—Stock-specific harvest and stock composition (%) estimates, mean, 90% credibility interval (CI), and standard deviation (SD) calculated using a stratified estimator for combined strata in the Central District drift (2 strata), Kasilof River Special Harvest Area (1 stratum), Upper Subdistrict set (4 strata), Northern District set (1 stratum), and west side set (1 stratum) gillnet fisheries and based on genetic analysis of mixtures of sockeye salmon harvested in Upper Cook Inlet, 2018.

Area strata	Reporting Group		Harvest				Stock Composition			
			Mean	90% CI		SD	Mean	90% CI		SD
	Regional	Subregional		5%	95%			5%	95%	
Central District drift gillnet <sup>a</sup>										
	<i>Crescent</i>		1,270	0	6,997	2,963	0.3	0.0	1.8	0.7
	<i>West</i>		43,702	19,174	72,682	16,778	11.0	4.8	18.3	4.2
	<i>Susitna</i>		71,699	52,359	93,564	12,482	18.0	13.2	23.5	3.1
	<i>Fish</i>		19,715	11,240	29,596	5,556	5.0	2.8	7.4	1.4
	<i>KTNE</i>		15,905	2,810	35,037	10,275	4.0	0.7	8.8	2.6
	<i>Kenai</i>		187,205	162,076	212,199	15,245	47.1	40.8	53.4	3.8
	<i>Kasilof</i>		57,885	41,752	74,673	9,992	14.6	10.5	18.8	2.5
	Total		397,383							
	<i>Susitna</i>	<i>JCL</i>	41,966	29,697	55,217	7,714	10.6	7.5	13.9	1.9
		<i>SusYen</i>	29,733	11,622	53,854	12,946	7.5	2.9	13.6	3.3
Kasilof River Special Harvest Area drift/set gillnet <sup>b</sup>										
	<i>Crescent</i>		11	0	66	30	0.1	0.0	0.5	0.2
	<i>West</i>		1,725	1,087	2,359	387	14.2	8.9	19.4	3.2
	<i>Susitna</i>		271	16	867	278	2.2	0.1	7.1	2.3
	<i>Fish</i>		167	0	414	142	1.4	0.0	3.4	1.2
	<i>KTNE</i>		340	50	821	259	2.8	0.4	6.8	2.1
	<i>Kenai</i>		2,493	1,890	3,166	388	20.5	15.6	26.0	3.2
	<i>Kasilof</i>		7,147	6,482	7,786	401	58.8	53.3	64.1	3.3
	Total		12,153							
	<i>Susitna</i>	<i>JCL</i>	58	0	178	61	0.5	0.0	1.5	0.5
		<i>SusYen</i>	212	0	799	268	1.7	0.0	6.6	2.2

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Table 14.–Page 2 of 3.

Area strata	Reporting Group		Harvest				Stock Composition			
			Mean	90% CI		SD	Mean	90% CI		SD
	Regional	Subregional		5%	95%			5%	95%	
Upper Subdistrict set gillnet <sup>c</sup>										
	<i>Crescent</i>		718	24	2,259	799	0.3	0.0	0.8	0.3
	<i>West</i>		2,543	849	5,812	1,923	0.9	0.3	2.1	0.7
	<i>Susitna</i>		14,392	7,354	23,143	4,854	5.2	2.6	8.3	1.7
	<i>Fish</i>		3,476	327	8,278	2,540	1.2	0.1	3.0	0.9
	<i>KTNE</i>		4,265	279	11,153	3,565	1.5	0.1	4.0	1.3
	<i>Kenai</i>		115,871	99,068	132,684	9,984	41.6	35.6	47.7	3.6
	<i>Kasilof</i>		137,165	121,390	152,859	9,481	49.3	43.6	54.9	3.4
	Total		278,431							
	<i>Susitna</i>	<i>JCL</i>	2,862	608	6,021	1,710	1.0	0.2	2.2	0.6
		<i>SusYen</i>	11,530	4,949	20,331	4,736	4.1	1.8	7.3	1.7
Northern District set gillnet <sup>d</sup>										
	<i>Crescent</i>		377	0	1,824	629	0.8	0.0	3.7	1.3
	<i>West</i>		7,137	5,277	9,417	1,304	14.3	10.6	18.9	2.6
	<i>Susitna</i>		14,618	12,158	17,157	1,523	29.3	24.4	34.4	3.1
	<i>Fish</i>		9,817	7,450	12,364	1,499	19.7	14.9	24.8	3.0
	<i>KTNE</i>		14,056	11,066	17,192	1,894	28.2	22.2	34.5	3.8
	<i>Kenai</i>		3,768	2,032	5,765	1,147	7.6	4.1	11.6	2.3
	<i>Kasilof</i>		71	0	389	160	0.1	0.0	0.8	0.3
	Total		49,845							
	<i>Susitna</i>	<i>JCL</i>	5,943	4,279	7,686	1,028	11.9	8.6	15.4	2.1
		<i>SusYen</i>	8,676	6,346	11,199	1,500	17.4	12.7	22.5	3.0

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Area strata	Reporting Group		Harvest				Stock Composition			
			Mean	90% CI		SD	Mean	90% CI		SD
	Regional	Subregional		5%	95%			5%	95%	
west side set gillnet <sup>c</sup>										
	<i>Crescent</i>		33,945	29,437	38,089	2,622	49.0	42.5	55.0	3.8
	<i>West</i>		21,832	16,817	26,822	3,034	31.5	24.3	38.7	4.4
	<i>Susitna</i>		2,172	783	4,280	1,137	3.1	1.1	6.2	1.6
	<i>Fish</i>		991	56	2,210	647	1.4	0.1	3.2	0.9
	<i>KTNE</i>		725	0	2,882	1,040	1.0	0.0	4.2	1.5
	<i>Kenai</i>		7,862	4,138	11,622	2,301	11.4	6.0	16.8	3.3
	<i>Kasilof</i>		1,732	0	3,797	1,181	2.5	0.0	5.5	1.7
	Total		69,260							
	<i>Susitna</i>	<i>JCL</i>	1,766	644	3,269	820	2.5	0.9	4.7	1.2
		<i>SusYen</i>	407	0	2,003	851	0.6	0.0	2.9	1.2

Note: The 90% credibility intervals of harvest estimates may not include the point estimate for the very low harvest estimates.

Note: Stock composition and harvest estimates may not sum to 100% due to rounding errors.

Note: Harvest numbers were pulled from the fish ticket database for the original report (Barclay 2019).

<sup>a</sup> Central District drift gillnet includes harvests from corridor-only and noncorridor-only periods (June 21–August 13), and excludes harvests from Chinitna Bay (245-10).

<sup>b</sup> Kasilof River Special Harvest Area includes harvests from drift and set gillnet (all season).

<sup>c</sup> Upper Subdistrict set gillnet includes harvests from statistical areas 244-21, 22, 32, 41, and 42 (all season).

<sup>d</sup> Northern District set gillnet includes harvests from Eastern and General subdistricts (July 2–August 16).

<sup>e</sup> West side set gillnet includes harvests from Western, Kustatan, and Kalgin Island subdistricts (June 15–August 9).

Table 15.—Stock-specific harvest and stock composition (%) estimates, mean, 90% credibility interval (CI), and standard deviation (SD) calculated using a stratified estimator for combined strata in the Central District drift (3 strata), Upper Subdistrict set (3 strata), Northern District set (1 stratum), and west side set (1 stratum) gillnet fisheries and based on genetic analysis of mixtures of sockeye salmon harvested in Upper Cook Inlet, 2019.

Area strata	Reporting Group		Harvest				Stock Composition			
			90% CI			SD	90% CI			SD
	Mean	5%	95%	Mean	5%		95%			
Central District drift gillnet <sup>a</sup>										
	<i>Crescent</i>		8,816	2,705	17,040	4,525	1.2	0.4	2.3	0.6
	<i>West</i>		81,082	60,899	106,752	13,836	10.8	8.1	14.3	1.8
	<i>Susitna</i>		54,253	37,295	74,317	11,207	7.2	5.0	9.9	1.5
	<i>Fish</i>		1,146	1	5,032	1,733	0.2	0.0	0.7	0.2
	<i>KTNE</i>		17,360	8,695	27,771	5,766	2.3	1.2	3.7	0.8
	<i>Kenai</i>		563,885	536,279	589,945	16,106	75.3	71.7	78.8	2.2
	<i>Kasilof</i>		21,859	9,428	35,123	7,895	2.9	1.3	4.7	1.1
	Total		748,402							
	<i>Susitna</i>	<i>JCL</i>	29,059	19,932	39,955	6,081	3.9	2.7	5.3	0.8
		<i>SusYen</i>	25,194	8,389	45,345	11,447	3.4	1.1	6.1	1.5
Upper Subdistrict set gillnet <sup>b</sup>										
	<i>Crescent</i>		3,584	5	18,116	6,813	0.5	0.0	2.3	0.9
	<i>West</i>		9,388	21	32,254	11,524	1.2	0.0	4.1	1.5
	<i>Susitna</i>		5,724	2,102	13,106	4,018	0.7	0.3	1.7	0.5
	<i>Fish</i>		3,502	85	13,212	4,570	0.4	0.0	1.7	0.6
	<i>KTNE</i>		7,757	203	24,311	8,162	1.0	0.0	3.1	1.0
	<i>Kenai</i>		658,503	621,134	692,984	22,494	84.0	79.2	88.4	2.9
	<i>Kasilof</i>		95,821	65,573	129,898	19,652	12.2	8.4	16.6	2.5
	Total		784,279							
	<i>Susitna</i>	<i>JCL</i>	2,081	1	7,725	2,844	0.3	0.0	1.0	0.4
		<i>SusYen</i>	3,643	1,554	9,187	2,948	0.5	0.2	1.2	0.4

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			Mean	90% CI		SD	Mean	90% CI		SD
	Regional	Subregional		5%	95%			5%	95%	
Area strata										
Northern District set gillnet <sup>c</sup>										
	<i>Crescent</i>		202	0	1,216	476	0.3	0.0	1.7	0.7
	<i>West</i>		28,422	24,553	32,320	2,382	38.9	33.6	44.3	3.3
	<i>Susitna</i>		14,557	11,197	18,207	2,154	19.9	15.3	24.9	3.0
	<i>Fish</i>		4,608	2,194	7,846	1,776	6.3	3.0	10.8	2.4
	<i>KTNE</i>		13,298	8,841	17,716	2,725	18.2	12.1	24.3	3.7
	<i>Kenai</i>		9,203	5,941	12,783	2,063	12.6	8.1	17.5	2.8
	<i>Kasilof</i>		2,688	782	4,716	1,187	3.7	1.1	6.5	1.6
	Total		72,977							
	<i>Susitna</i>	<i>JCL</i>	5,746	3,847	7,828	1,221	7.9	5.3	10.7	1.7
		<i>SusYen</i>	8,811	5,645	12,272	2,021	12.1	7.7	16.8	2.8
west side set gillnet <sup>d</sup>										
	<i>Crescent</i>		64,301	57,546	71,204	4,200	58.6	52.5	64.9	3.8
	<i>West</i>		25,925	19,203	32,977	4,184	23.6	17.5	30.1	3.8
	<i>Susitna</i>		1,764	0	6,963	2,387	1.6	0.0	6.3	2.2
	<i>Fish</i>		90	0	503	253	0.1	0.0	0.5	0.2
	<i>KTNE</i>		95	0	505	312	0.1	0.0	0.5	0.3
	<i>Kenai</i>		16,979	11,009	23,106	3,659	15.5	10.0	21.1	3.3
	<i>Kasilof</i>		540	0	2,487	889	0.5	0.0	2.3	0.8
	Total		109,694							
	<i>Susitna</i>	<i>JCL</i>	93	0	539	265	0.1	0.0	0.5	0.2
		<i>SusYen</i>	1,671	0	6,790	2,377	1.5	0.0	6.2	2.2

*Note:* The 90% credibility intervals of harvest estimates may not include the point estimate for the very low harvest estimates.

*Note:* Stock composition and harvest estimates may not sum to 100% due to rounding errors.

*Note:* Harvest numbers were pulled from the fish ticket database for the original report (Barclay 2020).

<sup>a</sup> Central District drift gillnet includes harvests from corridor-only and noncorridor-only periods (June 20–August 22), and excludes harvests from Chinitna Bay (245–10).

<sup>b</sup> Upper Subdistrict set gillnet includes harvests from statistical areas 244–21, 22, 32, 41, and 42 (all season).

<sup>c</sup> Northern District set gillnet includes harvests from Eastern and General subdistricts (June 27–August 22).

<sup>d</sup> West side set gillnet includes harvests from Western, Kustatan, and Kalgin Island subdistricts (June 10–August 15).

Table 16.—Stock composition (%) and stock-specific harvest estimates including mean, 90% credibility interval (CI), and standard deviation (SD) calculated using a stratified estimator for combined spatial and temporal strata in all represented fishing area strata based on genetic analysis of sockeye salmon harvested in the Upper Cook Inlet commercial fishery, 2005–2019.

Year	Reporting Group		Harvest				Stock Composition			
			90% CI				90% CI			
	Regional	Subregional	Mean	5%	95%	SD	Mean	5%	95%	SD
2005	<i>Crescent</i>		14,569	107	29,869	8,821	0.4	0.0	0.7	0.2
	<i>West</i>		33,352	20,975	49,146	8,750	0.8	0.5	1.2	0.2
	<i>Susitna</i>		54,926	39,878	72,491	10,057	1.3	1.0	1.8	0.2
	<i>Fish</i>		3,935	90	9,413	2,952	0.1	0.0	0.2	0.1
	<i>KTNE</i>		14,820	6,907	25,800	5,914	0.4	0.2	0.6	0.1
	<i>Kenai</i>		2,936,487	2,873,151	2,999,297	38,564	72.0	70.5	73.5	0.9
	<i>Kasilof</i>		1,019,935	960,285	1,080,028	36,531	25.0	23.5	26.5	0.9
	Total		4,078,024							
	<i>Susitna</i>	<i>JCL</i>	27,178	17,392	38,970	6,613	0.7	0.4	1.0	0.2
		<i>SusYen</i>	27,748	15,479	43,405	8,693	0.7	0.4	1.1	0.2
2006	<i>Crescent</i>		27,109	25,290	30,394	1,644	1.3	1.2	1.5	0.1
	<i>West</i>		53,574	45,690	62,233	5,053	2.6	2.2	3.0	0.2
	<i>Susitna</i>		44,461	37,927	51,531	4,147	2.2	1.9	2.5	0.2
	<i>Fish</i>		333	8	1,251	507	0.0	0.0	0.1	0.0
	<i>KTNE</i>		17,350	12,749	22,525	2,979	0.8	0.6	1.1	0.1
	<i>Kenai</i>		577,512	557,738	597,314	12,032	28.2	27.3	29.2	0.6
	<i>Kasilof</i>		1,324,611	1,304,965	1,344,149	11,928	64.8	63.8	65.7	0.6
	Total		2,044,951							
	<i>Susitna</i>	<i>JCL</i>	16,230	12,447	20,392	2,422	0.8	0.6	1.0	0.1
		<i>SusYen</i>	28,231	21,890	35,100	4,019	1.4	1.1	1.7	0.2

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Year	Reporting Group		Harvest				Stock Composition			
			90% CI				90% CI			
	Regional	Subregional	Mean	5%	95%	SD	Mean	5%	95%	SD
2007 <sup>a</sup>	<i>Crescent</i>		54,041	47,038	62,475	4,757	1.7	1.5	2.0	0.2
	<i>West</i>		152,145	128,233	177,461	14,971	4.9	4.1	5.7	0.5
	<i>Susitna</i>		239,027	209,295	270,730	18,759	7.6	6.7	8.6	0.6
	<i>Fish</i>		8,200	3,943	14,174	3,189	0.3	0.1	0.5	0.1
	<i>KTNE</i>		75,059	56,784	95,117	11,663	2.4	1.8	3.0	0.4
	<i>Kenai</i>		1,921,009	1,870,874	1,970,414	30,280	61.2	59.6	62.8	1.0
	<i>Kasilof</i>		687,179	644,972	730,615	26,028	21.9	20.6	23.3	0.8
	Total		3,136,660							
	<i>Susitna</i>	<i>JCL</i>	134,111	112,750	156,726	13,420	4.3	3.6	5.0	0.4
		<i>SusYen</i>	104,916	75,880	136,631	18,509	3.3	2.4	4.4	0.6
2008 <sup>b</sup>	<i>Crescent</i>		25,708	19,187	33,709	4,432	1.2	0.9	1.5	0.2
	<i>West</i>		68,049	57,160	81,678	7,538	3.0	2.6	3.7	0.3
	<i>Susitna</i>		135,760	118,508	154,252	10,924	6.1	5.3	6.9	0.5
	<i>Fish</i>		4,621	1,825	8,184	1,974	0.2	0.1	0.4	0.1
	<i>KTNE</i>		63,214	51,049	75,925	7,603	2.8	2.3	3.4	0.3
	<i>Kenai</i>		817,164	783,676	851,252	20,457	36.6	35.1	38.1	0.9
	<i>Kasilof</i>		1,120,753	1,087,203	1,154,515	20,276	50.1	48.6	51.6	0.9
	Total		2,235,268							
	<i>Susitna</i>	<i>JCL</i>	85,191	71,952	99,293	8,302	3.8	3.2	4.4	0.4
		<i>SusYen</i>	50,569	36,661	66,366	9,107	2.3	1.6	3.0	0.4

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Year	Reporting Group		Harvest				Stock Composition			
			90% CI				90% CI			
	Regional	Subregional	Mean	5%	95%	SD	Mean	5%	95%	SD
2009	<i>Crescent</i>		59,630	54,264	68,063	4,259	2.9	2.7	3.4	0.2
	<i>West</i>		163,460	147,418	180,982	10,273	8.0	7.3	8.9	0.5
	<i>Susitna</i>		102,520	86,943	119,095	9,809	5.0	4.3	5.9	0.5
	<i>Fish</i>		37,648	29,187	47,236	5,519	1.9	1.4	2.3	0.3
	<i>KTNE</i>		54,198	44,828	64,699	6,058	2.7	2.2	3.2	0.3
	<i>Kenai</i>		943,784	913,438	973,810	18,349	46.5	45.0	47.9	0.9
	<i>Kasilof</i>		670,243	644,903	695,821	15,588	33.0	31.7	34.3	0.8
	Total		2,031,483							
2010 <sup>c</sup>	<i>Susitna</i>	<i>JCL</i>	45,224	35,597	55,723	6,156	2.2	1.8	2.7	0.3
		<i>SusYen</i>	57,296	42,919	73,061	9,166	2.8	2.1	3.6	0.5
	<i>Crescent</i>		51,025	46,483	56,466	3,057	1.8	1.7	2.0	0.1
	<i>West</i>		204,880	187,051	223,389	11,027	7.3	6.7	8.0	0.4
	<i>Susitna</i>		114,084	99,567	129,585	9,131	4.1	3.6	4.6	0.3
	<i>Fish</i>		93,905	81,945	106,752	7,548	3.4	2.9	3.8	0.3
	<i>KTNE</i>		78,996	67,471	91,598	7,360	2.8	2.4	3.3	0.3
	<i>Kenai</i>		1,821,553	1,791,995	1,850,794	17,872	65.3	64.3	66.4	0.6
	<i>Kasilof</i>		423,296	404,867	442,301	11,366	15.2	14.5	15.9	0.4
	Total		2,787,738							
	<i>Susitna</i>	<i>JCL</i>	55,659	46,016	66,127	6,129	2.0	1.7	2.4	0.2
		<i>SusYen</i>	58,425	47,281	70,688	7,125	2.1	1.7	2.5	0.3

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Year	Reporting Group		Harvest				Stock Composition			
			90% CI				90% CI			
	Regional	Subregional	Mean	5%	95%	SD	Mean	5%	95%	SD
2011	<i>Crescent</i>		63,232	58,354	69,992	3,619	1.2	1.1	1.4	0.1
	<i>West</i>		295,953	263,334	330,593	20,447	5.8	5.2	6.5	0.4
	<i>Susitna</i>		217,519	185,240	252,066	20,414	4.3	3.6	4.9	0.4
	<i>Fish</i>		80,172	62,487	100,131	11,476	1.6	1.2	2.0	0.2
	<i>KTNE</i>		83,572	64,317	105,406	12,558	1.6	1.3	2.1	0.2
	<i>Kenai</i>		3,901,433	3,842,289	3,959,099	35,542	76.3	75.2	77.4	0.7
	<i>Kasilof</i>		470,319	437,359	504,904	20,547	9.2	8.6	9.9	0.4
	Total		5,112,200							
	<i>Susitna</i>	<i>JCL</i>	92,480	72,683	114,372	12,706	1.8	1.4	2.2	0.2
		<i>SusYen</i>	125,039	98,425	154,530	17,043	2.4	1.9	3.0	0.3
2012	<i>Crescent</i>		31,142	26,317	37,666	3,517	1.0	0.9	1.2	0.1
	<i>West</i>		139,175	117,628	163,509	14,004	4.5	3.8	5.3	0.5
	<i>Susitna</i>		178,954	148,788	211,461	19,094	5.8	4.8	6.9	0.6
	<i>Fish</i>		20,029	11,634	31,000	6,004	0.6	0.4	1.0	0.2
	<i>KTNE</i>		42,393	29,607	57,927	8,715	1.4	1.0	1.9	0.3
	<i>Kenai</i>		2,513,544	2,465,998	2,559,227	28,346	81.5	80.0	83.0	0.9
	<i>Kasilof</i>		158,968	134,147	186,191	15,856	5.2	4.3	6.0	0.5
	Total		3,084,205							
	<i>Susitna</i>	<i>JCL</i>	90,128	69,496	113,141	13,281	2.9	2.3	3.7	0.4
		<i>SusYen</i>	88,826	65,763	114,882	14,951	2.9	2.1	3.7	0.5

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Year	Reporting Group		Harvest				Stock Composition			
			90% CI				90% CI			
	Regional	Subregional	Mean	5%	95%	SD	Mean	5%	95%	SD
2013	<i>Crescent</i>		24,942	18,214	35,304	5,421	1.0	0.7	1.4	0.2
	<i>West</i>		163,040	134,130	195,124	18,598	6.3	5.2	7.5	0.7
	<i>Susitna</i>		187,090	154,874	222,213	20,481	7.2	6.0	8.6	0.8
	<i>Fish</i>		4,492	1,667	8,688	2,217	0.2	0.1	0.3	0.1
	<i>KTNE</i>		54,522	39,627	72,244	10,004	2.1	1.5	2.8	0.4
	<i>Kenai</i>		1,816,297	1,759,888	1,870,877	33,880	70.2	68.0	72.3	1.3
	<i>Kasilof</i>		335,839	299,924	374,158	22,548	13.0	11.6	14.5	0.9
	Total		2,586,223							
	<i>Susitna</i>	<i>JCL</i>	110,754	85,728	138,956	16,225	4.3	3.3	5.4	0.6
		<i>SusYen</i>	76,336	55,914	99,888	13,416	3.0	2.2	3.9	0.5
2014	<i>Crescent</i>		32,555	30,045	35,226	1,809	1.5	1.4	1.7	0.1
	<i>West</i>		164,220	87,101	236,147	45,058	7.7	4.1	11.1	2.1
	<i>Susitna</i>		123,768	85,354	174,894	27,888	5.8	4.0	8.2	1.3
	<i>Fish</i>		12,424	1,813	30,557	9,728	0.6	0.1	1.4	0.5
	<i>KTNE</i>		53,306	25,842	115,557	27,478	2.5	1.2	5.5	1.3
	<i>Kenai</i>		1,406,865	1,329,437	1,483,643	46,966	66.4	62.7	70.0	2.2
	<i>Kasilof</i>		327,136	277,631	379,368	31,014	15.4	13.1	17.9	1.5
	Total		2,120,276							
	<i>Susitna</i>	<i>JCL</i>	56,109	32,826	82,212	15,068	2.6	1.5	3.9	0.7
		<i>SusYen</i>	67,659	34,078	124,917	27,974	3.2	1.6	5.9	1.3

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Year	Reporting Group		Harvest				Stock Composition			
			90% CI				90% CI			
	Regional	Subregional	Mean	5%	95%	SD	Mean	5%	95%	SD
2015 <sup>d</sup>	<i>Crescent</i>		40,194	32,902	52,502	6,102	1.6	1.3	2.1	0.2
	<i>West</i>		130,819	100,289	178,524	23,551	5.2	4.0	7.1	0.9
	<i>Susitna</i>		200,444	152,635	248,006	28,784	8.0	6.1	9.9	1.1
	<i>Fish</i>		17,283	8,015	29,737	6,704	0.7	0.3	1.2	0.3
	<i>KTNE</i>		36,978	22,092	55,376	10,295	1.5	0.9	2.2	0.4
	<i>Kenai</i>		1,658,415	1,593,069	1,723,423	39,618	66.0	63.4	68.6	1.6
	<i>Kasilof</i>		427,887	379,353	476,957	29,688	17.0	15.1	19.0	1.2
	Total		2,512,019							
	<i>Susitna</i>	<i>JCL</i>	40,993	27,230	57,134	9,188	1.6	1.1	2.3	0.4
		<i>SusYen</i>	159,452	111,357	206,679	28,798	6.3	4.4	8.2	1.1
2016 <sup>d, e</sup>	<i>Crescent</i>		32,300	26,298	39,348	4,796	1.4	1.1	1.7	0.2
	<i>West</i>		31,845	21,633	48,749	8,780	1.3	0.9	2.0	0.4
	<i>Susitna</i>		124,561	88,091	172,127	26,290	5.2	3.7	7.2	1.1
	<i>Fish</i>		21,481	11,682	34,106	6,962	0.9	0.5	1.4	0.3
	<i>KTNE</i>		53,462	35,526	74,593	11,958	2.2	1.5	3.1	0.5
	<i>Kenai</i>		1,973,123	1,910,957	2,030,020	36,302	82.8	80.2	85.2	1.5
	<i>Kasilof</i>		146,521	108,136	187,852	24,211	6.1	4.5	7.9	1.0
	Total		2,383,292							
	<i>Susitna</i>	<i>JCL</i>	47,927	34,022	63,921	9,140	2.0	1.4	2.7	0.4
		<i>SusYen</i>	76,635	42,669	122,867	25,155	3.2	1.8	5.2	1.1

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Year	Reporting Group		Harvest				Stock Composition			
			90% CI			SD	90% CI			SD
	Regional	Subregional	Mean	5%	95%		Mean	5%	95%	
2017	<i>Crescent</i>		55,339	38,898	76,144	11,316	3.1	2.1	4.2	0.6
	<i>West</i>		201,200	170,122	233,194	19,413	11.1	9.4	12.9	1.1
	<i>Susitna</i>		186,135	149,375	226,721	23,799	10.3	8.2	12.5	1.3
	<i>Fish</i>		61,785	44,328	81,572	11,329	3.4	2.4	4.5	0.6
	<i>KTNE</i>		69,156	48,384	93,114	13,637	3.8	2.7	5.1	0.8
	<i>Kenai</i>		906,523	846,051	965,981	36,297	50.0	46.7	53.3	2.0
	<i>Kasilof</i>		332,623	290,424	376,533	26,991	18.3	16.0	20.8	1.5
	Total		1,812,761							
	<i>Susitna</i>	<i>JCL</i>	37,489	25,064	51,691	8,089	2.1	1.4	2.9	0.4
		<i>SusYen</i>	148,646	113,353	187,813	23,061	8.2	6.3	10.4	1.3
2018	<i>Crescent</i>		36,321	30,811	43,325	4,092	4.5	3.8	5.4	0.5
	<i>West</i>		76,940	51,954	105,697	16,846	9.5	6.4	13.1	2.1
	<i>Susitna</i>		103,153	81,509	127,073	13,839	12.8	10.1	15.7	1.7
	<i>Fish</i>		34,167	24,454	45,202	6,396	4.2	3.0	5.6	0.8
	<i>KTNE</i>		35,292	20,341	55,310	10,963	4.4	2.5	6.9	1.4
	<i>Kenai</i>		317,200	288,663	346,923	18,205	39.3	35.8	43.0	2.3
	<i>Kasilof</i>		204,000	181,477	225,759	13,676	25.3	22.5	28.0	1.7
	Total		807,072							
	<i>Susitna</i>	<i>JCL</i>	52,596	39,648	66,503	8,124	6.5	4.9	8.2	1.0
		<i>SusYen</i>	50,558	29,949	76,528	14,507	6.3	3.7	9.5	1.8

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Year	Reporting Group		Harvest				Stock Composition			
	Regional	Subregional	90% CI				90% CI			
			Mean	5%	95%	SD	Mean	5%	95%	SD
2019	<i>Crescent</i>		76,903	64,972	93,932	9,061	4.5	3.8	5.5	0.5
	<i>West</i>		144,818	118,275	179,131	18,514	8.4	6.9	10.4	1.1
	<i>Susitna</i>		76,298	57,577	97,964	12,452	4.4	3.4	5.7	0.7
	<i>Fish</i>		9,346	3,537	20,248	5,203	0.5	0.2	1.2	0.3
	<i>KTNE</i>		38,511	24,334	56,420	10,173	2.2	1.4	3.3	0.6
	<i>Kenai</i>		1,248,570	1,201,224	1,293,305	28,146	72.8	70.0	75.4	1.6
	<i>Kasilof</i>		120,908	87,445	157,705	21,177	7.0	5.1	9.2	1.2
	Total		1,715,352							
	<i>Susitna</i>	<i>JCL</i>	36,979	26,925	48,568	6,760	2.2	1.6	2.8	0.4
		<i>SusYen</i>	39,319	21,087	60,689	12,199	2.3	1.2	3.5	0.7

Note: 90% credibility intervals and standard deviations for harvest years prior to 2014 may differ from what was originally reported due a different rounding procedure used when summarizing the BAYES output for this report. The harvest numbers used in this table were pulled from the fish ticket database when these estimates were originally reported and, therefore, may not match current harvest numbers in the database.

- <sup>a</sup> Estimates for 2007 differ from what was previously reported in Barclay et al. (2010a, 2010b, 2013, 2017, 2018) and Barclay (2017, 2019). In the process of creating this report, errors in the stock composition estimates reported in Barclay et. al (2010a) were identified; see Appendix A1 for a comparison of the corrected and original estimates.
- <sup>b</sup> Estimates for 2008 differ from what was previously reported in Barclay et al. (2010a, 2010b, 2013, 2017, 2018) and Barclay (2017, 2019). In the process of creating this report, errors in the stock composition estimates reported in Barclay et. al (2010a) were identified; see Appendix A2 for a comparison of the corrected and original estimates.
- <sup>c</sup> Estimates for 2010 differ from what was previously reported in Barclay et al. (Barclay et al. 2013) because Western Subdistrict harvests were not included in that report because the BAYES chains for the Western Subdistrict mixture failed to converge due to a missing baseline population. Harvest for the Western Subdistrict is reported here for 2010 after the mixture was reanalyzed using the updated baseline.
- <sup>d</sup> Estimates for 2015 and 2016 differ from what was reported in Barclay (2017) due to an error in the fish ticket database that put some districtwide harvests in the wrong statistical area; therefore, those harvests were not included in the represented harvest in that report. The stock-specific harvest estimates in this report have been recalculated using the correct harvest numbers.
- <sup>e</sup> Estimates for 2016 differ from what was reported in Barclay (2019) due to a correction made to the harvest represented for the Central District drift gillnet (excluding corridor-only periods) fishery.



## **APPENDIX A: COMPARISON OF CORRECTED AND ORIGINALLY REPORTED ESTIMATES**

Appendix A1.—Comparison of corrected (top) and originally reported (Barclay et al 2010a; bottom) stock-specific harvest and stock composition (%) estimates, mean, 90% credibility interval (CI), and standard deviation (SD) for a mixture of sockeye salmon harvested in the Kasilof Section set gillnet fishery (Central District, Upper Subdistrict) July 16–21, 2007.

Area strata	Reporting Group		Harvest				Stock Composition			
			90% CI			SD	90% CI			SD
	Regional	Subregional	Mean	5%	95%		Mean	5%	95%	
Corrected										
	<i>Crescent</i>		371	0	2,274	887	0.2	0.0	0.9	0.4
	<i>West</i>		3,926	0	14,876	5,375	1.6	0.0	6.1	2.2
	<i>Susitna</i>		9,824	4,659	16,805	3,759	4.0	1.9	6.8	1.5
	<i>Fish</i>		9	0	3	94	0.0	0.0	0.0	0.0
	<i>KTNE</i>		9,947	2,645	17,597	4,581	4.0	1.1	7.2	1.9
	<i>Kenai</i>		145,010	130,592	159,091	8,620	59.0	53.1	64.7	3.5
	<i>Kasilof</i>		76,728	63,190	90,733	8,320	31.2	25.7	36.9	3.4
	Total		245,816							
	<i>Susitna</i>	<i>JCL</i>	8,589	4,060	14,144	3,082	3.5	1.7	5.8	1.3
		<i>SusYen</i>	1,235	0	8,758	2,949	0.5	0.0	3.6	1.2
Originally reported (incorrect)										
	<i>Crescent</i>		331	0	2,140	840	0.1	0.0	0.9	0.3
	<i>West</i>		4,986	0	16,217	6,007	2.0	0.0	6.6	2.4
	<i>Susitna<sup>a</sup></i>		9,740	NA	NA	NA	4.0	NA	NA	NA
	<i>Fish</i>		8	0	2	81	0.0	0.0	0.0	0.0
	<i>KTNE</i>		9,124	1,904	17,313	4,815	3.7	0.8	7.0	2.0
	<i>Kenai</i>		144,988	130,436	159,348	8,770	59.0	53.1	64.8	3.6
	<i>Kasilof</i>		76,640	62,995	90,656	8,376	31.2	25.6	36.9	3.4
	Total		245,816							
	<i>Susitna</i>	<i>JCL</i>	8,579	4,063	14,073	3,051	3.5	1.7	5.7	1.2
		<i>SusYen</i>	1,162	0	8,125	2,755	0.5	0.0	3.3	1.1

Note: In the process of creating this report, errors in the stock composition estimates reported in Barclay et. al (2010a) were identified. Discrepancies in harvest by reporting group were less than 100 fish except for *West* (1,060) and *KTNE* (823).

<sup>a</sup> Estimates for the *Susitna* reporting group were not reported in Barclay et al. (2010a). Mean stock composition and stock-specific harvest estimates for *Susitna* were produced by summing the point estimates for *SusYen* and *JCL* reporting groups.



Appendix A2.—Comparison of corrected (top) and originally reported (Barclay et al 2010a; bottom) stock-specific harvest and stock composition (%) estimates, mean, 90% credibility interval (CI), and standard deviation (SD) for a mixture of sockeye salmon harvested in the Upper Subdistrict set gillnet fishery (including Kasilof River Special harvest area drift and set gillnet) (9 strata) gillnet fishery and based on genetic analysis of mixtures of sockeye salmon harvested in the Upper Cook Inlet, 2008.

Area strata	Reporting Group		Harvest				Stock Composition			
			90% CI			SD	90% CI			SD
	Regional	Subregional	Mean	5%	95%		Mean	5%	95%	
Corrected										
	<i>Crescent</i>		7,043	1,760	14,264	3,896	0.5	0.1	1.1	0.3
	<i>West</i>		10,337	4,352	20,615	5,314	0.8	0.3	1.6	0.4
	<i>Susitna</i>		32,167	22,965	42,850	6,090	2.4	1.7	3.2	0.5
	<i>Fish</i>		1,461	1	3,986	1,307	0.1	0.0	0.3	0.1
	<i>KTNE</i>		24,841	15,736	35,146	5,897	1.9	1.2	2.7	0.4
	<i>Kenai</i>		417,349	394,577	441,270	14,282	31.6	29.9	33.4	1.1
	<i>Kasilof</i>		826,363	801,557	850,674	15,010	62.6	60.7	64.5	1.1
	Total		1,319,561							
	<i>Susitna</i>	<i>JCL</i>	27,472	19,487	36,343	5,126	2.1	1.5	2.8	0.4
		<i>SusYen</i>	4,695	0	13,156	4,356	0.4	0.0	1.0	0.3
Originally reported (incorrect)										
	<i>Crescent</i>		1,480	409	3,076	842	0.1	0.0	0.2	0.1
	<i>West</i>		6,006	2,924	10,019	2,201	0.5	0.2	0.8	0.2
	<i>Susitna</i> <sup>a</sup>		9,815	NA	NA	NA	0.7	NA	NA	NA
	<i>Fish</i>		356	1	898	353	0.0	0.0	0.1	0.0
	<i>KTNE</i>		9,453	5,652	14,919	2,874	0.7	0.4	1.1	0.2
	<i>Kenai</i>		475,615	453,684	498,277	13,564	36.0	34.4	37.8	1.0
	<i>Kasilof</i>		816,837	794,088	838,931	13,597	61.9	60.2	63.6	1.0
	Total		1,319,561							
	<i>Susitna</i>	<i>JCL</i>	8,597	5,450	12,484	2,156	0.7	0.4	0.9	0.2
		<i>SusYen</i>	1,218	0	4,019	1,369	0.1	0.0	0.3	0.1

Note: In the process of creating this report, errors in the stock composition estimates reported in Barclay et. al (2010a) were identified. Discrepancies in harvest by reporting group were less than 20,000 fish except for *Susitna* (58,266) and *Kenai* (22,353).

<sup>a</sup> Estimates for the *Susitna* reporting group were not reported in Barclay et al. (2010a). Mean stock composition and stock-specific harvest estimates for *Susitna* were produced by summing the point estimates for *SusYen* and *JCL* reporting groups.