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**Abundance, Age, Sex and Size of Chinook, Sockeye,
Coho and Chum Salmon Returning to Upper Cook
Inlet, Alaska, 2004**

by

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and

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May 2007

Alaska Department of Fish and Game

Divisions of Sport Fish and Commercial Fisheries



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

FISHERY DATA SERIES NO. 07-33

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AND CHUM SALMON RETURNING TO UPPER COOK INLET,
ALASKA, 2004**

by
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ABSTRACT

The estimated total run of sockeye salmon *Oncorhynchus nerka* to Upper Cook Inlet (UCI) in 2004 was 7.9 million fish. The total estimate is comprised mainly of the commercial harvest of 4.9 million fish and the escapement estimate of 2.2 million fish into five major river systems. The remainder of the return consists of unmonitored escapements in “other” systems, sport, subsistence and personal use harvests. Commercial harvests and escapements that were sampled for sex, age, and length data represented 7.0 million of the returning sockeye and will be referred to as the monitored harvests and escapements. Age classes 1.2, 1.3, 2.2, and 2.3 comprised 99% of the combined UCI commercial sockeye salmon harvests and monitored escapements. Age class-1.3 represented 4.1 million fish or 58% of the total monitored return, while age-1.2 fish represented 1.1 million fish or 16% of the total monitored return. Average length for the four major age classes ranged from 490 mm for age-1.2 fish to 580 mm for age-1.3 fish. Female composition of sockeye salmon in the combined commercial harvests and escapements averaged 54%.

A total of 27,448 Chinook salmon *O. tshawytscha* were commercially harvested in UCI. The Upper Subdistrict eastside set gillnet harvest of 21,656 fish was the only harvest sampled and represented 79% of the total commercial harvest. Ages-1.1, -1.2, -1.3, and -1.4 fish comprised 99% of the harvest. Average length of the four major age classes ranged from 428 mm for age-1.1 fish to 1,010 mm for age-1.4 fish. Sex composition favored males at 56%.

The commercial harvest of coho salmon *O. kisutch* was 309,001 fish. Commercial gillnet harvests of coho that were monitored consisted of the drift fleet and Upper and General subdistricts, which represented 84% of the total commercial harvest. The harvest was comprised of age-1.1, -2.1, and -3.1 fish. Average lengths for the three age classes were 542 mm for age-1.1 fish, 570 mm for age-2.1 fish, and 595 mm for age-3.1 fish. For the three commercial fisheries, the female composition of coho salmon averaged 51%.

The commercial harvest of chum salmon *O. keta* was 145,129 fish. The drift gillnet harvest, which was the only harvest monitored, was 136,006 or 94% of the total. The harvest was comprised of age-0.2, -0.3, and -0.4 fish. Average lengths for the three age classes were 548 mm for age-0.2 fish, 589 mm for age-0.3 fish and 604 mm for age-0.4 fish. Female chum salmon contributed 51% to the harvest.

Key words: Salmon, *Oncorhynchus*, age, size, commercial catch, escapement, exploitation rate, Upper Cook Inlet, Alaska, Chinook, *O. tshawytscha*, sockeye, *O. nerka*, coho, *O. kisutch*, chum, *O. keta*

INTRODUCTION

Upper Cook Inlet (UCI) supports all 5 species of Pacific salmon *Oncorhynchus* (Figure 1). From 1974-2003 the average harvest of salmon in UCI was 4.6 million fish. The historic average harvest of sockeye salmon *O. nerka* was 3.3 million, with 0.8 million even-year pink *O. gorbuscha*, 0.1 million odd-year pink, 0.5 million chum *O. keta*, 0.4 million coho *O. kisutch*, and 17,000 Chinook *O. tshawytscha* salmon. Salmon harvests in UCI represent approximately 5% of the statewide commercial harvest (Fox and Shields 2004). Locations of the commercial fishing districts, subdistricts, and Upper Subdistrict beach fisheries are shown in Figures 2 and 3.

The pioneering work of Davis and Kissner (1969) in UCI provided a framework from which age, sex, and length data collection began. Unfortunately, in the early years (1964-1978) the sample collection of commercial harvest and escapement data was sporadic and limited compared to the present. Information was published in annual technical reports from 1964 to 1978 (Florey 1977; Litchfield 1983; Namtvedt et al. 1978; Nelson 1984). Davis and Tarbox (1985) produced a compendium of information for the period 1964-1981 to summarize the yearly results. The series continued with the advent of stock separation studies in 1978 and has been in existence ever since (Bethe et al. 1980; Cross et al. 1981, 1982, 1983, 1985, 1987; Cross 1985; Tobias and Tarbox 1999a, 1999b, 2000; Tobias and Waltemyer 1996; Tobias and Willette 2001, 2002, 2003, 2004; Waltemyer 1989, 1990, 1991, 1993, 1994a, 1994b, 1995a, 1995b; Waltemyer and Tobias 1997, 1998). The major emphasis has been on sampling sockeye salmon in the commercial

harvests and escapements. However, since 1983, Chinook, coho, and chum salmon sampling in key commercial harvests has been conducted.

Age, sex, and length information, in conjunction with abundance data, provides a basis for assessing yearly variations in production and effects of management strategies. This report is part of a continuing series. General objectives are: 1) document the number of salmon harvested in selected commercial gillnet fisheries; 2) report escapement numbers from the major river systems; and 3) estimate age, sex, and length composition of salmon in selected commercial harvests and escapements.

METHODS

NUMERICAL DATA

Commercial harvest statistics were compiled from Alaska Department of Fish and Game (ADF&G) final fish ticket information. All commercially harvested salmon, whether sold or kept for personal use, are recorded on fish tickets and entered into the statewide fish ticket database (Fox and Shields 2005).

ADF&G Commercial Fisheries personnel used Bendix Corporation¹ single beam side-scanning sonar to estimate the adult salmon escapement in the Kenai (1 July-18 August; River Mile 19), Kasilof (15 June-16 August; RM 10.5), Crescent (24 June-05 August; RM 1.5), and Yentna Rivers (7 July-12 August; RM 4.0) (Westerman and Willette 2003).

Sockeye salmon escapement in Fish Creek was determined by counting fish migrating through a weir located 3 miles upstream from the confluence with the Knik Arm of Cook Inlet. Sport Fish Division personnel in Palmer monitored sockeye escapement through the weir at Fish Creek from July 6 to August 16. Cook Inlet Aquaculture Association (CIAA) personnel monitored the sockeye salmon escapements through a weir on Hidden Creek from July 12 to August 30. Sport Fish Division personnel in Soldotna monitored escapements on the Russian River for late run sockeye salmon from July 15 to September 3.

AGE, SEX, AND SIZE DATA

Fish scales were taken from the left side of the salmon approximately two rows above the lateral line on the diagonal row that extends down from the posterior insertion of the dorsal fin to the anterior insertion of the anal fin (Koo 1955). One scale was collected from each sockeye and chum salmon. Because of the higher number of regenerated scales on coho and Chinook salmon, 3 scales were collected from each of these species. Scales were mounted on gum cards and impressions made in cellulose acetate as described by Clutter and Whitesel (1956).

Ages of salmon were determined by visual examination of scale impressions under moderate magnification (40X) using a microfiche viewer. Age was determined based upon criteria established by Mosher (1969) and Tobias et al. (1994). Ages were recorded in European notation (Koo 1962).

¹ Product names used in this report are included for scientific completeness, but do not constitute product endorsement by the Alaska Department of Fish and Game.

Sex and length information were recorded for all specimens sampled. Sex of the fish was determined by morphological characteristics. Length was measured from mideye to tail fork (METF), and recorded to the nearest millimeter for all species except Chinook salmon, which were measured to the nearest 5 millimeters. Chinook salmon were also checked for adipose fin clips to determine if they were coded wire tagged hatchery fish (Lafferty et al. 1998).

Age, sex, and length compositions of the commercial harvests were estimated using a stratified systematic random sampling design (Cochran 1977). A minimum sample size of 403 readable scales was determined for each species and strata to estimate the proportion of each major age class in the harvest within 5% of the true proportion 90% of the time (Thompson 1987). A sample size of 500 fish per strata for sockeye salmon harvested in the commercial fisheries was set to account for unreadable scales.

The sampling design of the commercial fishery harvests was stratified by date and area. Salmon were sampled from each of eight commercial fishing districts and subdistricts from one to ten times during the season. Frequency and priority of sampling was based on the historical harvest contribution of a fishery to the total UCI commercial harvest and, in some cases, defined by the current management strategy. In order to detect seasonal changes in age composition, sampling dates were selected based on historic data such as run timing for each species throughout the season.

For sockeye escapements, a weighted sample size of 500 fish was used to provide the same level of precision as the sampling in the commercial fishery. The 500 fish were sampled in proportion to the daily escapement. The percent of each day's escapement to be sampled was estimated based on the anticipated total escapement (i.e. 500 total samples/500,000 escapement estimate indicates 0.10% of each day's total count needs to be sampled). In addition to the weighted sample, 500 samples were taken during three time periods on the Kenai and Kasilof Rivers to estimate age composition through time. On the Kasilof, the three time periods were 15 June-10 July, 11-20 July, and 21-15 August; while the Kenai River sampling periods were 1-20 July, 21-30 July, and 31 July-18 August.

Sampling at North and South Kalifornsky beaches was similar to the sampling conducted in 2002, when both beaches were sampled throughout the fishery season, to estimate age compositions of harvests separately.

The offshore test fish boat personnel sampled their harvest for the third season in a row. The Offshore Test fishing program employs a chartered vessel which fishes along a transect crossing Cook Inlet from Anchor Point to the Red Delta River, to estimate run strength inseason (Shields and Willette 2005). Members of the crew collected age, sex, and length data from sockeye salmon caught at each station along the transect.

Resulting age compositions for each time-strata sampled were applied to the total harvest. Depending on the size of the harvest and number of times the fishery was sampled, each age composition may represent one fishing period or the entire season's harvest. Age-apportioned harvests were summed to calculate the total number of each age group harvested from each fishery and district.

RESULTS AND DISCUSSION

Age, sex, and length data were collected from a total of 1,707 Chinook, 29,511 sockeye, 1,644 coho, and 1,000 chum salmon from selected UCI commercial gillnet harvests and escapements in 2004 (Table 1). Summaries of these data, along with harvest and escapement information are presented below.

The 2004 UCI commercial salmon harvest of 5.8 million was the largest harvest since 1992 and approximately 1.1 million more than the 30-year (1974-2003) average (Fox and Shields 2005).

SOCKEYE SALMON

Total Return

The sockeye salmon total run to Upper Cook Inlet in 2004 was comprised of a commercial harvest of 4.9 million fish, and an estimated escapement of 2.6 million fish (Table 2). There were sport, personal use, and subsistence harvests below the counting sites on the rivers and in the Inlet that were estimated at 390,000. The estimated total run was 7.9 million sockeye in 2004.

The following four major age classes made up 99% of the monitored sockeye salmon commercial harvests and escapements (Table 3):

<u>Age Class</u>	<u>%</u>	<u>Escapement and Commercial Harvest</u>	<u>Mean Length (mm)</u>
1.2	16.2	1,134,038	490
1.3	58.5	4,101,562	580
2.2	12.7	893,874	495
2.3	11.4	800,059	575

The predominant age class percentages, numbers, and mean lengths of sockeye salmon in the UCI commercial harvest were:

<u>Age Class</u>	<u>%</u>	<u>Commercial Harvest</u>	<u>Mean Length (mm)</u>
1.2	14.5	705,368	495
1.3	60.9	2,957,322	583
2.2	11.7	568,543	498
2.3	11.6	564,126	578

The predominant age class percentages, numbers, and mean lengths of sockeye salmon in the monitored UCI escapements were:

<u>Age Class</u>	<u>%</u>	<u>Escapement</u>	<u>Mean Length (mm)</u>
1.2	19.8	428,670	481
1.3	53.0	1,144,240	572
2.2	15.1	325,331	490
2.3	10.9	235,933	570

Female contributions among all the age classes ranged from 46% to 56% in the commercial harvests and from 48% to 55% in the escapements (Table 3).

Commercial Harvest

The 2004 Central District sockeye salmon drift gillnet harvest (excluding Chinitna Bay) was 2,523,559 fish (Tables 3 and 4). This harvest represented 51% of the total UCI sockeye salmon

harvest. Historically, the drift harvest from 1974-2003 has averaged 56%. The major age class percentages, number of fish and mean lengths were:

<u>Age Class</u>	<u>%</u>	<u>Commercial Harvest</u>	<u>Mean Length (mm)</u>
1.2	10.4	261,862	510
1.3	69.9	1,764,339	590
2.2	6.2	157,211	515
2.3	11.9	301,163	586

Female composition in the drift gillnet harvest ranged from 45% (25-29 June) to 68% (4-5 July; Table 4).

The Cohoe/Ninilchik Beach set gillnet harvest was 637,864 fish and represented 13% of the total UCI sockeye salmon harvest (Tables 3 and 5). Historically, the Cohoe/Ninilchik fishery harvest averaged 14%. The Kasilof River Special Harvest Area set gillnet harvest of 4,904 fish was added to the Cohoe/Ninilchik harvest in this report. Therefore, the total adjusted harvest from the area was 642,768. The major age class percentages, number of fish, and mean lengths were:

<u>Age Class</u>	<u>%</u>	<u>Commercial Harvest</u>	<u>Mean Length (mm)</u>
1.2	28.6	183,645	485
1.3	36.1	232,205	557
2.2	25.4	163,199	488
2.3	9.4	60,201	549

Female composition in the Cohoe/Ninilchik Beach sockeye salmon harvest ranged from 44% (29 June-1 July, 23-29 July) to 58% (8-11 July; Table 5).

The Kalifornsky Beach set gillnet harvest, which historically averaged 13% of the total UCI sockeye salmon harvest, represented 13% or 659,288 fish in 2004. The harvest consisted of 303,164 from North Kalifornsky Beach and 356,124 fish from South Kalifornsky Beach (Tables 3, 6, 7 and 8).

The four major age class percentages, number of fish, and mean lengths in the North Kalifornsky Beach harvest were:

<u>Age Class</u>	<u>%</u>	<u>Commercial Harvest</u>	<u>Mean Length (mm)</u>
1.2	16.5	50,115	488
1.3	56.1	169,975	577
2.2	15.9	48,103	490
2.3	10.6	32,152	572

The female composition of the North Kalifornsky Beach sockeye salmon harvest ranged from 44% (31 July - 7 August) to 54% (12 July; Table 6).

The four major age class percentages, number of fish, and mean lengths in the South Kalifornsky Beach sockeye salmon harvest were:

<u>Age Class</u>	<u>%</u>	<u>Commercial Harvest</u>	<u>Mean Length (mm)</u>
1.2	27.4	97,458	479
1.3	36.2	129,026	566
2.2	27.3	97,271	481
2.3	8.5	30,412	555

The female composition in the South Kalifornsky Beach sockeye salmon harvest ranged from 43% (8-9 July) to 60% (14-16 July) (Table 7).

Overall, South Kalifornsky Beach harvested more age-1.2 sockeye salmon (27%) than North Kalifornsky Beach (17%). North Kalifornsky Beach harvested more age-1.3 sockeye salmon (56%) than South Kalifornsky Beach (36%). This trend occurred throughout the sampling dates (Figure 4).

The four major age class percentages, number of fish, and mean lengths in the combined Kalifornsky Beach harvests were:

<u>Age Class</u>	<u>%</u>	<u>Commercial Harvest</u>	<u>Mean Length (mm)</u>
1.2	22.4	148,894	482
1.3	45.2	298,281	573
2.2	22.1	145,657	484
2.3	9.5	62,713	565

Female composition in the combined Kalifornsky Beach sockeye salmon harvest ranged from 47% (25 June-1 July) to 55% (17-19 July; Table 8).

The Salamatof Beach/East Forelands set gillnet sockeye salmon harvest, which historically averaged 12% of the total UCI sockeye salmon harvest, represented 19% or 932,314 fish in 2004 (Tables 3 and 9). The four major age class percentages, number of fish, and mean lengths were:

<u>Age Class</u>	<u>%</u>	<u>Commercial Harvest</u>	<u>Mean Length (mm)</u>
1.2	10.4	96,936	496
1.3	66.7	621,574	578
2.2	9.0	83,662	509
2.3	12.9	120,064	580

Female composition in the Salamatof Beach harvest ranged from 45% (1-7 August) to 59% (12 July; Table 9).

Of the four Upper Subdistrict beach fisheries sampled, sockeye salmon harvested in the South Kalifornsky and Coho/Ninilchik beaches were smallest in total mean length (518 mm) while sockeye salmon in the Salamatof Beach harvest were the largest (564 mm). North Kalifornsky Beach sockeye salmon mean length was 548 mm.

Figures 5-8 show trends in composition of age-1.3, -2.3, -1.2, and -2.2 sockeye salmon through time in the Central District drift gillnet and Upper Subdistrict (Salamatof, North and South Kalifornsky beaches and Coho/Ninilchik beaches) set gillnet harvests.

The Eastern Subdistrict sockeye salmon set gillnet harvest of 12,987 fish, which historically averaged 1.1% of the total UCI sockeye salmon harvest, represented 0.3% in 2004 (Tables 3 and 10). The major age class percentages, number of fish, and mean lengths were:

<u>Age Class</u>	<u>%</u>	<u>Commercial Harvest</u>	<u>Mean Length (mm)</u>
1.2	27.2	3,534	479
1.3	39.5	5,126	564
2.2	22.9	2,974	487
2.3	8.9	1,149	563

Female composition in the harvest was 46% (Table 10).

The General Subdistrict set gillnet sockeye salmon harvest of 14,299 which historically averaged 2.3% of the total UCI sockeye salmon harvest, represented 0.3% of the total UCI harvest in 2004 (Tables 3 and 11).

The major age class percentages, number of fish, and mean lengths from the General Subdistrict were:

<u>Age Class</u>	<u>%</u>	<u>Commercial Harvest</u>	<u>Mean Length (mm)</u>
1.2	12.0	1,719	514
1.3	66.8	9,548	580
2.2	3.5	498	517
2.3	15.2	2,172	584

Females represented 50% of the harvest (Table 11).

The Kalgin Island commercial set gillnet harvest of 61,716 sockeye salmon represented 1.3% of the total UCI sockeye salmon harvest (Table 2). Historically the Kalgin Island harvest represents 1.5% of the total sockeye salmon harvest. Since Kalgin Island harvests are mixed with General or Western Subdistrict harvests, before delivery to the processors, crews were unable to sample unmixed Kalgin Island Subdistrict sockeye salmon for age composition in 2004.

The Western Subdistrict set gillnet harvest of 68,481 represented 1.4% of the total UCI sockeye salmon harvest (Table 2 and 12). Historically, the Western Subdistrict harvests 1.5% of the total sockeye salmon harvest. The major age class percentages, numbers of fish, and mean lengths were:

<u>Age Class</u>	<u>%</u>	<u>Commercial Harvest</u>	<u>Mean Length (mm)</u>
1.2	14.3	9,778	489
1.3	38.3	26,249	560
2.2	22.4	15,342	498
2.3	24.3	16,664	566

Females represented 52% of the harvest (Table 12).

Escapement

It is estimated that a minimum of 2,562,106 sockeye salmon escaped the commercial fishery and entered the 5 major rivers and “other” streams of UCI (Table 3). Sockeye salmon escapements in descending order of abundance were 1,385,981 fish in Kenai River, 577,581 in Kasilof River, 334,188 in “other” systems, 138,998 in Susitna River, 103,201 in Crescent River and 22,157 in Fish Creek. The estimate of “other” streams is calculated as 15% of the escapements into the major river systems, based on earlier studies done to evaluate production from other systems in Upper Cook Inlet (Fox 1998). The estimate of total Susitna River escapement represents the combined escapement at Yentna River sonar site (71,281) plus an estimate of the mainstem Susitna River based on the historical relation of Yentna River (x) to Sunshine Station (y) from 1981-1985 (the only years of comparison) which yielded the following function (Westerman and Willette 2003):

$$y = 0.95 * x \quad (1)$$

The predominate age classes in the five monitored UCI sockeye salmon escapements were age 1.2 (19.8%), age 1.3 (53.0%), age 2.2 (15.1%) and age 2.3 (10.9%; Table 3). Individual age class compositions by river are presented in Figure 9.

Major age class percentages, number of fish, and mean lengths in the Kenai River weighted sockeye salmon escapement were:

<u>Age Class</u>	<u>%</u>	<u>Escapement</u>	<u>Mean Length (mm)</u>
1.2	10.1	140,229	489
1.3	69.1	957,687	576
2.2	8.2	114,139	512
2.3	11.1	154,360	581

The overall mean length of Kenai River sockeye salmon was 562 mm. Females comprised 55% of the Kenai River escapement (Tables 3 and 13). Table 14 presents Kenai River age composition data from three strata, 1-20 July, 21-30 July and 31 July-18 August. The age composition of overall dates combined is similar to the weighted age composition.

Hidden Creek, a tributary of the Kenai River, had a return of 18,172 sockeye salmon represented by age-1.2 (66.5%), age-1.3 (18.9%), age-2.2 (12.4%) and age-2.3 (2.1%) fish. Female composition in Hidden Creek was 46% (Table 15).

Russian River, another tributary of Kenai River, had a late run sockeye salmon weir escapement of 110,244. Major age class percentages, numbers of fish, and mean lengths in the Russian River sockeye salmon escapement were:

<u>Age Class</u>	<u>%</u>	<u>Escapement</u>	<u>Mean Length (mm)</u>
2.1	4.6	5,074	398
1.3	2.5	2,768	582
2.2	61.1	67,346	511
2.3	28.9	31,828	582

The overall mean length of Russian River sockeye salmon was 527 mm. Females comprised 54% of the sockeye salmon sampled (Table 16).

Kasilof River had an escapement of 577,581 sockeye salmon. Major age class percentages, number of fish, and mean lengths in the Kasilof River weighted sockeye salmon escapement were:

<u>Age Class</u>	<u>%</u>	<u>Escapement</u>	<u>Mean Length (mm)</u>
1.2	43.7	252,534	478
1.3	18.9	109,409	544
2.2	32.6	188,286	478
2.3	4.3	24,808	531

The overall mean length of Kasilof River escapement sockeye salmon was 493 mm. Females comprised 54% of the sockeye salmon sampled (Tables 3 and 17). Table 18 presents Kasilof River age composition data from three strata, 15 June-10 July, 11-20 July and 21 July-15 August. Overall dates combined is similar to the weighted age composition. Figure 10 shows the age class composition trends from the three strata taken on Kenai River and Kasilof River through the season.

Crescent River escapement was 103,201 sockeye salmon with the following major age class percentages, number of fish, and mean lengths:

<u>Age Class</u>	<u>%</u>	<u>Escapement</u>	<u>Mean Length (mm)</u>
1.2	14.1	14,562	467
1.3	31.3	32,290	554
2.2	16.0	16,461	481
2.3	38.0	39,255	556

The overall mean length of Crescent River escapement sockeye salmon was 531 mm. Females comprised 48% of the Crescent River escapement (Tables 3 and 19).

The Yentna River, a tributary of the Susitna River, had an escapement of 71,281 sockeye salmon. The major age class percentage, number of fish, and mean lengths were:

<u>Age Class</u>	<u>%</u>	<u>Escapement</u>	<u>Mean Length (mm)</u>
1.2	17.0	12,087	474
1.3	50.0	35,640	562
2.2	8.3	5,888	478
2.3	21.7	15,496	562

The overall mean length of Yentna River sockeye was 538 mm. Female composition in the escapement was 52% (Tables 3 and 20).

Fish Creek had an escapement of 22,157 sockeye salmon. Fish Creek sockeye salmon age class percentages, number of fish, and mean lengths were:

<u>Age Class</u>	<u>%</u>	<u>Escapement</u>	<u>Mean Length (mm)</u>
1.1	2.7	600	364
1.2	41.8	9,258	472
1.3	41.6	9,214	538
2.2	2.5	557	484
2.3	9.1	2,014	538

The overall mean length of Fish Creek sockeye salmon was 503 mm. Females comprised 52% of the escapement (Tables 3 and 21).

Offshore Test Fish

Age class percentages, number of fish, and mean lengths from sockeye salmon caught on the offshore test fish boat in 2004 were:

<u>Age Class</u>	<u>%</u>	<u>Number of Fish</u>	<u>Mean Length (mm)</u>
1.2	8.0	226	500
1.3	72.8	2,057	572
2.2	6.1	173	501
2.3	11.4	321	566

Age composition was similar to the Central District drift fishery results. Overall female composition from the drift fishery (56%) was higher than samples from the offshore test fish boat (48%). The mean length of all age classes from the Central drift fishery was 576 mm, while the mean length from the offshore test fish sample was 561 mm (Table 22).

CHINOOK SALMON

Commercial Harvest

The total commercial harvest of Chinook salmon in 2004 was 27,286 which was above the long-term average harvest (1974-2003) of 16,841 fish. The Upper Subdistrict set gillnet fishery harvest was 21,656 or 79% of the UCI harvest (Table 2).

The predominant age class percentages, number of fish, and mean lengths in the Upper Subdistrict Chinook harvest were:

<u>Age Class</u>	<u>%</u>	<u>Commercial Harvest</u>	<u>Mean Length (mm)</u>
1.1	3.5	766	428
1.2	19.8	4,294	645
1.3	48.2	10,442	866
1.4	27.6	5,985	1,010

The overall mean length was 848 mm, and females accounted for 44% of the commercial harvest (Table 23).

COHO SALMON

Commercial Harvest

The coho salmon commercial harvest of 309,001 fish was 50,000 below the long term average, but was the largest harvest since 1996. Coho salmon were sampled from three gillnet fisheries which represented 84% of the total UCI coho salmon harvest (Table 24). Age-2.1 coho salmon accounted for the bulk of the harvest:

	<u>Age 2.1</u>	<u>Harvest</u>	<u>Mean Length (mm)</u>
Central District drift gillnet	76.8%	152,410	573
Upper Subdistrict set gillnet	75.8%	22,855	571
General Subdistrict set gillnet	78.8%	25,505	554

Age 1.1 (11.7%) and age-3.1 (11.4%) accounted for the remainder of the total monitored coho salmon harvests. Mean lengths for all three age groups combined were, on average, larger in the Central District drift harvests (572 mm) and in the Upper Subdistrict set gillnet harvest (572 mm) than in the General Subdistrict (553 mm; Tables 24-27). Female composition ranged from 44% in the Upper Subdistrict set gillnet harvest to 52% in the Central District drift harvest.

CHUM SALMON

Commercial Harvest

The total chum salmon commercial harvest was 145,129 fish. The historic average harvest of chum salmon is 492,407. Chum salmon were sampled from the commercial drift gillnet harvest of 136,006 fish, which made up 94% of the total commercial harvest (Table 28). The major age class percentages, number of fish, and mean lengths were:

<u>Age Class</u>	<u>%</u>	<u>Commercial Harvest</u>	<u>Mean Length</u>
0.3	52.3	71,159	589
0.4	46.0	62,617	604

Females represented 51% of the chum salmon harvest. Overall mean length was 595 mm (Table 28).

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TABLES AND FIGURES

Table 1.—Number of salmon sampled from selected commercial gillnet harvests, escapements, and offshore test fishing in Upper Cook Inlet, Alaska, 2004.

Location ^a	Species			
	Chinook	Sockeye	Coho	Chum
Commercial Harvest				
Central District				
Drift		5,010	500	1,000
Upper Subdistrict ^b	1,707		644	
Cohoe/Ninilchik Beach		3,937		
North Kalifornsky Beach		4,000		
South Kalifornsky Beach		4,430		
Salamatof Beach		2,892		
Western Subdistrict		960		
Kalgin Island		0		
Northern District				
Eastern Subdistrict		500		
General Subdistrict		349	500	
Subtotal	1,707	22,078	1,644	1,000
Escapement				
Central District				
Kenai River - late run				
Mainstream		1,833		
Hidden Creek ^c		241		
Russian River		246		
Kasilof River				
Mainstream		1,806		
Crescent River		563		
Northern District				
Susitna River				
Yentna River		534		
Fish Creek ^d		609		
Subtotal	0	5,832	0	0
Offshore Test Fish boat				
Drift - Anchor Point to Red River Delta ^e		1,601		
Total Samples	1,707	29,511	1,644	1,000

Note: Areas with no harvest indicate areas that were not sampled.

^a Specific locations not footnoted were sampled by Commercial Fisheries personnel, (ADF&G)

^b Represents pooled samples from the Upper Subdistrict commercial set gillnet fisheries.

^c Samples collected by Cook Inlet Aquaculture Association (CIAA).

^d Samples collected by Sport Fish Division personnel, ADF&G.

^e Samples collected by Offshore Test Fish crew.

Table 2.—Number of salmon commercially harvested and sockeye escapements into the five major river systems of Upper Cook Inlet, Alaska, 2004.

Fishery	Code	Chinook	Sockeye	Coho	Pink	Chum	Total
Northern District Total		2,058	27,286	44,130	2,017	2,148	77,639
Northern District West		1,589	14,299	32,369	532	1988	50,777
Trading Bay	247-10	139	225	735	3	3	1,105
Tyonek	247-20	479	883	1,929	25	243	3,559
Beluga	247-30	214	3,220	4,474	196	221	8,325
Susitna Flat	247-41	362	4,599	10,458	197	849	16,465
Pt. Mackenzie	247-42	227	3,306	8,632	111	590	12,866
Fire Island	247-43	168	2,066	6,141	0	82	8,457
Northern District East		469	12,987	11,761	1485	160	26,862
Pt. Possession	247-70	281	7,962	6,138	980	125	15,486
Birch Hill	247-80	1	543	1,717	110	11	2,382
Number 3 Bay	247-90	187	4,482	3,906	395	24	8,994
Central District Total		25,390	4,892,233	264,871	355,266	142,981	5,680,741
East Side Set Total		21,656	2,234,370	30,137	107,796	2019	2,395,978
Salamatof/East Forelands		3,761	932,314	22,127	48,598	770	1,007,570
Salamatof	244-41	3,599	821,406	12,201	39,093	372	876,671
East Forelands	244-42	162	110,908	9,926	9,505	398	130,899
Kalifornsky Beach		7,069	659,288	4,187	29,491	305	700,340
South K.Beach	244-31	4,157	356,124	1,936	12,960	128	375,305
North K.Beach	244-32	2,912	303,164	2,251	16,531	177	325,035
Kasilof Terminal	244-25	68	4,904	20	131	1	5,124
Cohoe/Ninilchik		10,758	637,864	3,803	29,576	943	682,944
Cohoe	244-22	5,692	279,142	2,349	13,802	58	301,043
Ninilchik	244-21	5,066	358,722	1,454	15,774	885	381,901
West Side Set Total		636	68,481	12,458	4,574	3,249	89,398
Little Jack Slough	245-50	0	8,996	4,597	389	91	14,073
Polly Creek	245-40	87	4,394	487	134	29	5,131
Tuxedni Bay	245-30	548	54,867	7,314	4,048	3,129	69,906
Silver Salmon	245-20	1	224	60	3	0	288
Kustatan Total		430	4,107	2703	0	1	7,241
Big River	245-55	430	4,015	2535	0	1	6,981
West Foreland	245-60	0	92	168	0	0	260
Kalgin Island Total		1142	61,716	21,096	7981	1,706	93,641
West Side	246-10	1131	44,380	17,466	7819	1583	72,379
East Side	246-20	11	17,336	3,630	162	123	21,262
Chinitna Bay Set Total	245-10	0	0	0	0	0	0
Central District Set Total		23,864	2,368,674	66,394	120,351	6,975	2,586,258
Central District Drift Total		1,526	2,523,559	198,477	234,915	136,006	3,094,483
West Side	245-70,80,90	34	18,424	755	52	1039	20,304
East Side	244-50,60,70	789	2,123,484	180,163	201,991	125,591	2,632,018
East Side Corridor Total		691	381,067	17,547	32,719	9,376	441,400
Kasilof Corridor	244-61	473	18,842	586	2139	523	22,563
E. Side Corridor	244-55	218	362,225	16,961	30,580	8,853	418,837
Kasilof Terminal	244-25	12	584	12	153	0	761
Upper Cook Inlet Harvest Total		27,448	4,919,519	309,001	357,283	145,129	5,758,380

Table 3.—Age, length, and percent female composition of sockeye salmon in selected commercial gillnet harvests and river escapements, Upper Cook Inlet, Alaska, 2004.

Location	Age Group													Total
	0.2	1.1	0.3	1.2	2.1	1.3	2.2	3.1	1.4	2.3	3.2	2.4	3.3	
COMMERCIAL HARVEST														
Central District														
Central Drift														
Number	1,996		14,297	261,862		1,764,339	157,211		16,341	301,163	735	4,767	848	2,523,559
Percent	.08		.57	10.38		69.91	6.23		.65	11.93	.03	.19	.03	100.00
Sample Size	2		23	644		2,945	401		24	529	3	6	1	4,578
Mean Length ^a	496		578	510		590	515		622	586	541	615	564	576
% Female	46		74	50		57	57		21	55	10	65	100	56
Cohoe/Ninilchik Beach														
Number	214	107	417	183,645	496	232,205	163,199	107	1,794	60,201		383		642,768
Percent	.03	.02	.06	28.57	.08	36.13	25.39	.02	.28	9.37		.06		100.00
Sample Size	1	1	3	1,040	4	1,252	947	1	14	328		3		3,594
Mean Length	433	363	575	485	387	557	488	401	604	549		602		518
% Female			67	47	28	50	47	100	47	49		64		48
Kalifornsky Beach														
Number	41		504	147,894	283	298,281	145,657	188	3,006	62,713	13	498	210	659,288
Percent	.01		.08	22.43	.04	45.24	22.09	.03	.46	9.51	.00	.08	.03	100.00
Sample Size	1		8	1,872	3	3,243	1,781	2	30	718	1	7	2	7,668
Mean Length	442		567	482	379	573	484	379	605	565	543	593	560	532
% Female			89	48	14	52	52	50	51	54		32	94	51
Salamatof Beach														
Number	30		707	96,936	30	621,574	83,662	287	5,861	120,064	824	1,545	794	932,314
Percent	.00		.08	10.40	.00	66.67	8.97	.03	.63	12.88	.09	.17	.09	100.00
Sample Size	1		3	323	1	1,695	269	1	17	295	2	3	1	2,611
Mean Length	459		566	496	401	578	509	400	619	580	558	589	517	564
% Female			100	43		52	52	100	27	48	100	41		51
Western														
Number				9,778		26,249	15,342		240	16,664	208			68,481
Percent				14.28		38.33	22.40		.35	24.33	.30			100.00
Sample Size				125		325	211		3	213	3			880
Mean Length				489		560	498		592	566	515			537
% Female				42		57	56		29	47				52

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Table 3.-Page 2 of 4.

Age Group														
Location	0.2	1.1	0.3	1.2	2.1	1.3	2.2	3.1	1.4	2.3	3.2	2.4	3.3	Total
COMMERCIAL HARVEST														
Northern District														
Eastern Subdistrict														
Number	29	29	88	3,534		5,126	2,974			1,149	29		29	12,987
Percent	.22	.22	.68	27.21		39.47	22.90			8.85	.22		.22	100.00
Sample Size	1	1	3	120		174	101			39	1		1	441
Mean Length	487	354	574	479		564	487			563	465		507	522
% Female	100		67	43		53	42			33			100	46
General Subdistrict														
Number	45		136	1,719		9,548	498		136	2,172		45		14,299
Percent	.31		.95	12.02		66.77	3.48		.95	15.19		.31		100.00
Sample Size	1		3	38		211	11		3	48		1		316
Mean Length	561		568	514		580	517		598	584		543		570
% Female	100		67	66		47	45		33	50		100		50
Commercial Harvest Total														
Number	2,355	136	16,149	705,368	809	2,957,322	568,543	582	27,378	564,126	1,809	7,238	1,881	4,853,696 ^b
Percent	.05	.00	.33	14.53	.02	60.93	11.71	.01	.56	11.62	.04	.15	.04	100.00
Sample Size	7	2	43	4,162	8	9,845	3,721	4	91	2,170	10	20	5	20,088
Mean Length	490	361	577	495	384	583	498	393	618	578	544	606	543	559
% Female	42		75	48	22	55	52	84	28	53	50	58	57	53
ESCAPEMENT														
Central District														
Kenai River														
Number			5,435	140,229	2,174	957,687	114,139		3,261	154,360	3,261	2,174	3,261	1,385,981
Percent			.39	10.12	.16	69.10	8.24		.24	11.14	.24	.16	.24	100.00
Sample Size			5	129	2	881	105		3	142	3	2	3	1,275
Mean Length			565	489	392	576	512		618	581	506	608	550	562
% Female			20	50	50	55	68			50		50	67	55
Kasilof River														
Number		636		252,534	1,272	109,409	188,286		636	24,808				577,581
Percent		.11		43.72	.22	18.94	32.60		.11	4.30				100.00
Sample Size		1		397	2	172	296		1	39				908
Mean Length		420		478	374	544	478		545	531				493
% Female		100		54		52	57		100	36				54

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Table 3.—Page 3 of 4.

Age Group														
Location	0.2	1.1	0.3	1.2	2.1	1.3	2.2	3.1	1.4	2.3	3.2	2.4	3.3	Total
ESCAPEMENT														
Crescent River														
Number				14,562		32,290	16,461		211	39,255		211	211	103,201
Percent				14.11		31.29	15.95		.20	38.04		.20	.20	100.00
Sample Size				69		153	78		1	186		1	1	489
Mean Length				467		554	481		552	556		544	545	531
% Female				30		53	40			55		100	100	48
Northern District														
Yentna River														
Number	465	465	775	12,087		35,640	5,888		465	15,496				71,281
Percent	.65	.65	1.09	16.96		50.00	8.26		.65	21.74				100.00
Sample Size	3	3	5	78		230	38		3	100				460
Mean Length	441	352	568	474		562	478		600	562				538
% Female	33		40	32		60	37			59				52
Fish Creek														
Number	214	600		9,258	129	9,214	557		171	2,014				22,157
Percent	.97	2.71		41.78	.58	41.59	2.51		.77	9.09				100.00
Sample Size	5	14		216	3	215	13		4	47				517
Mean Length	482	364		472	360	538	484		516	538				503
% Female	100			56		49	54		100	57				52
Escapement Total														
Number	679	1,701	6,210	428,670	3,575	1,144,240	325,331		4,744	235,933	3,261	2,385	3,472	2,160,201 ^c
Percent	.03	.08	.29	19.84	.17	52.97	15.06		.22	10.92	.15	.11	.16	100.00
Sample Size	8	18	10	889	7	1,651	530		12	514	3	3	4	3,649
Mean Length	454	382	565	481	384	572	490		600	570	506	602	550	541
% Female	54	37	22	52	30	55	60		17	50		54	69	54

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Table 3.–Page 4 of 4.

Location	Age Group													Total
	0.2	1.1	0.3	1.2	2.1	1.3	2.2	3.1	1.4	2.3	3.2	2.4	3.3	
Upper Cook Inlet Total														
Number	3,034	1,837	22,359	1,134,038	4,384	4,101,562	893,874	582	32,122	800,059	5,070	9,623	5,353	7,013,897 ^d
Percent	.04	.03	.32	16.17	.06	58.48	12.74	.01	.46	11.41	.07	.14	.08	100.00
Sample Size	15	20	53	5,051	15	11,496	4,251	4	103	2,684	13	23	9	23,737
Mean Length	482	380	574	490	384	580	495	393	615	575	519	605	547	554
% Female	45	35	61	49	29	55	55	84	26	52	18	57	65	54

^a Mean length in mm.

^b Total does not include Kustatan and Kalgin Island harvests of 4,107 and 61,716 for a total commercial harvest of 4,919,519.

^c Escapement total does not include estimated Susitna River run of 67,717 and return to “other” systems estimated to be 334,188 for a total escapement of 2,562,106.

^d An estimated additional 390,000 sockeye were harvested for sport, personal use and subsistence, resulting in an Upper Cook Inlet return of 7.9 million sockeye in 2004.

Table 4.-Age, sex, and length composition of sockeye salmon in the Central District commercial drift gillnet harvest, Upper Cook Inlet, Alaska, 2004.

	Age Group									Total	
	0.2	0.3	1.2	1.3	2.2	1.4	2.3	3.2	2.4		3.3
Sample Period 1: 25 - 29 June ^a											
Males			2,918	6,526	2,706		1,273				13,423
Percent			12.03	26.92	11.16		5.25				55.36
Sample Size			55	123	51		24				253
Mean Length ^b			502	559	502		550				534
Std. Error			3	3	3		5				2
Sample Size			55	123	51		24				253
Females			1,857	5,677	1,857	53	1,379				10,823
Percent			7.66	23.41	7.66	0.22	5.69				44.64
Sample Size			35	107	35	1	26				204
Mean Length			499	560	507	616	557				540
Std. Error			3	2	3		6				2
Sample Size			35	107	35	1	26				204
Both Sexes			4,775	12,203	4,563	53	2,652				24,246
Percent			19.69	50.33	18.82	0.22	10.94				100.00
Sample Size			90	230	86	1	50				457
Mean Length			501	559	504	616	554				537
Std. Error			2	2	2		4				1
Sample Size			90	230	86	1	50				457

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Table 4.—Page 2 of 12.

	Age Group										Total
	0.2	0.3	1.2	1.3	2.2	1.4	2.3	3.2	2.4	3.3	
Sample Period 2: 30 June - 2 July ^c											
Males		75	4,818	7,603	2,409		1,129				16,034
Percent		0.21	13.73	21.67	6.87		3.22				45.71
Sample Size		1	64	101	32		15				213
Mean Length		579	503	572	512		569				542
Std. Error			3	3	3		10				2
Sample Size		1	64	101	32		15				213
Females		151	3,312	11,669	1,882		1,957	75			19,046
Percent		0.43	9.44	33.26	5.36		5.58	0.21			54.29
Sample Size		2	44	155	25		26	1			253
Mean Length		580	501	567	503		564	578			549
Std. Error		11	4	2	5		5				2
Sample Size		2	44	155	25		26	1			253
Both Sexes		226	8,130	19,272	4,291		3,086	75			35,080
Percent		0.64	23.18	54.94	12.23		8.80	0.21			100.00
Sample Size		3	108	256	57		41	1			466
Mean Length		579	502	569	508		566	578			546
Std. Error		11	2	2	3		5				1
Sample Size		3	108	256	57		41	1			466

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Table 4.—Page 3 of 12.

	Age Group										Total
	0.2	0.3	1.2	1.3	2.2	1.4	2.3	3.2	2.4	3.3	
Sample Period 3: 4 - 5 July ^d											
Males			8,865	8,173	2,494		1,247	139			20,918
Percent			13.62	12.55	3.83		1.92	0.21			32.13
Sample Size			64	59	18		9	1			151
Mean Length			510	583	507		574	528			542
Std. Error			4	4	5		12				2
Sample Size			64	59	18		9	1			151
Females			8,035	24,243	6,095	416	5,403				44,192
Percent			12.34	37.23	9.36	0.64	8.30				67.87
Sample Size			58	175	44	3	39				319
Mean Length			500	575	514	602	567				552
Std. Error			3	2	4	9	4				1
Sample Size			58	175	44	3	39				319
Both Sexes			16,900	32,416	8,589	416	6,650	139			65,110
Percent			25.96	49.79	13.19	0.64	10.21	0.21			100.00
Sample Size			122	234	62	3	48	1			470
Mean Length			505	577	512	602	568	528			549
Std. Error			2	2	3	9	4				1
Sample Size			122	234	62	3	48	1			470

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Table 4.-Page 4 of 12.

	Age Group										Total
	0.2	0.3	1.2	1.3	2.2	1.4	2.3	3.2	2.4	3.3	
Sample Period 4: 7 - 10 July ^e											
Males	1,203	27,077	45,730	14,441			13,237				101,688
Percent	0.44	9.83	16.59	5.24			4.80				36.90
Sample Size	2	45	76	24			22				169
Mean Length	566	511	590	512			573				555
Std. Error	41	4	3	5			7				2
Sample Size	2	45	76	24			22				169
Females	2,407	31,890	98,077	21,661	602	18,653			602		173,892
Percent	0.87	11.57	35.59	7.86	0.22	6.77			0.22		63.10
Sample Size	4	53	163	36	1	31			1		289
Mean Length	600	504	573	511	601	577			603		553
Std. Error	11	3	2	5		5					2
Sample Size	4	53	163	36	1	31			1		289
Both Sexes	3,610	58,967	143,807	36,102	602	31,890			602		275,580
Percent	1.31	21.40	52.18	13.10	0.22	11.57			0.22		100.00
Sample Size	6	98	239	60	1	53			1		458
Mean Length	589	508	578	511	601	575			603		554
Std. Error	15	3	2	3		4					1
Sample Size	6	98	239	60	1	53			1		458

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Table 4.—Page 5 of 12.

	Age Group										Total
	0.2	0.3	1.2	1.3	2.2	1.4	2.3	3.2	2.4	3.3	
Sample Period 5: 12 July ^f											
Males			14,557	47,066	8,249		9,219				79,091
Percent			6.54	21.13	3.70		4.14				35.51
Sample Size			30	97	17		19				163
Mean Length			517	599	517		581				573
Std. Error			5	3	7		9				2
Sample Size			30	97	17		19				163
Females	2,426	14,071	99,472	9,219		18,438					143,626
Percent	1.09	6.32	44.66	4.14		8.28					64.49
Sample Size	5	29	205	19		38					296
Mean Length	564	506	580	518		568					567
Std. Error	8	5	1	6		4					1
Sample Size	5	29	205	19		38					296
Both Sexes	2,426	28,628	146,538	17,468		27,657					222,717
Percent	1.09	12.85	65.80	7.84		12.42					100.00
Sample Size	5	59	302	36		57					459
Mean Length	564	512	586	518		573					569
Std. Error	8	3	1	5		4					1
Sample Size	5	59	302	36		57					459

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Table 4.—Page 6 of 12.

	Age Group										Total
	0.2	0.3	1.2	1.3	2.2	1.4	2.3	3.2	2.4	3.3	
Sample Period 6: 14 - 18 July ^g											
Males		848	18,665	97,567	7,636		12,726				137,442
Percent		0.23	4.95	25.90	2.03		3.38				36.49
Sample Size		1	22	115	9		15				162
Mean Length		596	520	599	514		594				583
Std. Error			6	3	8		7				2
Sample Size		1	22	115	9		15				162
Females		848	18,665	173,925	15,271		29,694			848	239,251
Percent		0.23	4.95	46.17	4.05		7.88			0.23	63.51
Sample Size		1	22	205	18		35			1	282
Mean Length		550	505	584	521		582			564	573
Std. Error			6	1	7		3				1
Sample Size		1	22	205	18		35			1	282
Both Sexes		1,696	37,330	271,492	22,907		42,420			848	376,693
Percent		0.45	9.91	72.07	6.08		11.26			0.23	100.00
Sample Size		2	44	320	27		50			1	444
Mean Length		573	512	590	519		586			564	577
Std. Error			4	1	5		3				1
Sample Size		2	44	320	27		50			1	444

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Table 4.-Page 7 of 12.

		Age Group									Total	
		0.2	0.3	1.2	1.3	2.2	1.4	2.3	3.2	2.4	3.3	Total
Sample Period 7: 19 July ^h												
Males				14,538	142,651	12,720	3,634	26,349				199,892
Percent				3.55	34.81	3.10	0.89	6.43				48.78
Sample Size				16	157	14	4	29				220
Mean Length				532	605	522	632	602				594
Std. Error				6	2	8	7	5				2
Sample Size				16	157	14	4	29				220
Females	909	909	15,446	166,273	6,360			19,081		909		209,887
Percent	0.22	0.22	3.77	40.58	1.55			4.66		0.22		51.22
Sample Size	1	1	17	183	7			21		1		231
Mean Length	505	604	507	586	509			582		603		577
Std. Error			7	1	11			6				1
Sample Size	1	1	17	183	7			21		1		231
Both Sexes	909	909	29,984	308,924	19,080	3,634	45,430		909			409,779
Percent	0.22	0.22	7.32	75.39	4.66	0.89	11.09		0.22			100.00
Sample Size	1	1	33	340	21	4	50		1			451
Mean Length	505	604	519	594	517	632	593		603			585
Std. Error			5	1	6	7	4					1
Sample Size	1	1	33	340	21	4	50		1			451

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Table 4.-Page 8 of 12.

		Age Group										
		0.2	0.3	1.2	1.3	2.2	1.4	2.3	3.2	2.4	3.3	Total
Sample Period 8: 21 - 23 July ⁱ												
Males	1,087	1,087	20,648	170,622	7,607	3,260	29,343					233,654
Percent	0.22	0.22	4.14	34.20	1.52	0.65	5.88					46.84
Sample Size	1	1	19	157	7	3	27					215
Mean Length	488	610	518	604	511	624	603					593
Std. Error			6	2	10	11	4					2
Sample Size	1	1	19	157	7	3	27					215
Females		2,174	21,735	198,877	13,041		28,256		1,087			265,170
Percent		0.44	4.36	39.87	2.61		5.66		0.22			53.16
Sample Size		2	20	183	12		26		1			244
Mean Length		572	505	582	526		572		610			572
Std. Error		12	6	2	7		4					1
Sample Size		2	20	183	12		26		1			244
Both Sexes	1,087	3,261	42,383	369,499	20,648	3,260	57,599		1,087			498,824
Percent	0.22	0.65	8.50	74.07	4.14	0.65	11.55		0.22			100.00
Sample Size	1	3	39	340	19	3	53		1			459
Mean Length	488	585	511	592	520	624	588		610			582
Std. Error		12	4	1	6	11	3					1
Sample Size	1	3	39	340	19	3	53		1			459

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Table 4.-Page 9 of 12.

		Age Group									Total	
		0.2	0.3	1.2	1.3	2.2	1.4	2.3	3.2	2.4	3.3	Total
Sample Period 9: 24 - 27 July ^j												
Males		521	6,779	81,353	1,564	1,043	17,209	521				108,990
Percent		0.22	2.86	34.29	0.66	0.44	7.25	0.22				45.93
Sample Size		1	13	156	3	2	33	1				209
Mean Length		614	507	606	491	616	608	539				598
Std. Error			7	2	11	22	3					1
Sample Size		1	13	156	3	2	33	1				209
Females			5,736	96,997	4,693	1,564	18,773			521		128,284
Percent			2.42	40.88	1.98	0.66	7.91			0.22		54.07
Sample Size			11	186	9	3	36			1		246
Mean Length			514	586	507	618	591			609		581
Std. Error			6	1	13	14	4					1
Sample Size			11	186	9	3	36			1		246
Both Sexes		521	12,515	178,350	6,257	2,607	35,982	521		521		237,274
Percent		0.22	5.27	75.17	2.64	1.10	15.16	0.22		0.22		100.00
Sample Size		1	24	342	12	5	69	1		1		455
Mean Length		614	510	595	503	617	599	539		609		589
Std. Error			5	1	10	12	2					1
Sample Size		1	24	342	12	5	69	1		1		455

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Table 4.—Page 10 of 12.

		Age Group										
		0.2	0.3	1.2	1.3	2.2	1.4	2.3	3.2	2.4	3.3	Total
Sample Period 10: 28 July - 16 August ^k												
Males			11,537	144,215	7,417	4,945	23,074			1,648		192,836
Percent			3.05	38.13	1.96	1.31	6.10			0.44		50.98
Sample Size			14	175	9	6	28			2		234
Mean Length			501	601	518	629	591			630		592
Std. Error			7	2	15	8	5			12		2
Sample Size			14	175	9	6	28			2		234
Females		1,648	10,713	137,623	9,889	824	24,723					185,420
Percent		0.44	2.83	36.38	2.61	0.22	6.54					49.02
Sample Size		2	13	167	12	1	30					225
Mean Length		545	501	578	512	566	581					570
Std. Error		18	8	2	9		4					2
Sample Size		2	13	167	12	1	30					225
Both Sexes		1,648	22,250	281,838	17,306	5,769	47,797			1,648		378,256
Percent		0.44	5.88	74.51	4.58	1.53	12.64			0.44		100.00
Sample Size		2	27	342	21	7	58			2		459
Mean Length		545	501	590	515	620	586			630		581
Std. Error		18	5	1	8	8	3			12		1
Sample Size		2	27	342	21	7	58			2		459

-continued-

Table 4.—Page 11 of 12.

	Age Group										Total
	0.2	0.3	1.2	1.3	2.2	1.4	2.3	3.2	2.4	3.3	
All Periods Combined:											
Males	1,087	3,734	130,402	751,506	67,243	12,882	134,806	660	1,648		103,968
Percent	0.04	0.15	5.17	29.78	2.66	0.51	5.34	0.03	0.07		43.75
Sample Size	1	6	342	1,216	184	15	221	2	2		1,989
Mean Length	488	592	515	601	514	627	595	537	630		585
Std. Error		41	2	1	3	5	2		12		1
Sample Size	1	6	342	1,216	184	15	221	2	2		1,989
Females	909	10,563	131,460	012,833	89,968	3,459	166,357	75	3,119	848	419,591
Percent	0.04	0.42	5.21	40.14	3.57	0.14	6.59	0.00	0.12	0.03	56.25
Sample Size	1	17	302	1,729	217	9	308	1	4	1	2,589
Mean Length	505	574	505	581	515	601	578	578	606	564	569
Std. Error		6	2	1	2	11	2				1
Sample Size	1	17	302	1,729	217	9	308	1	4	1	2,589
Both Sexes	1,996	14,297	261,862	1,764,339	157,211	16,341	301,163	735	4,767	848	2,523,559
Percent	0.08	0.57	10.38	69.91	6.23	0.65	11.93	0.03	0.19	0.03	100.00
Sample Size	2	23	644	2,945	401	24	529	3	6	1	4,578
Mean Length	496	578	510	590	515	622	586	541	615	564	576
Std. Error		7	1	0	2	4	1		12		0
Sample Size	2	23	644	2,945	401	24	529	3	6	1	4,578

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Table 4.–Page 12 of 12.

- ^a Drift open district wide 6/28 0700-1900. Kasilof Section open 6/25 and 6/26 0400-2400, 6/27 1900-2400, 6/28 0400-0700, and 6/29 1900-2400.
- ^b Mean length in mm.
- ^c Drift open district wide 7/01 0700-1900. Kasilof Section open 6/30 0400-2400, 7/01 0400-0700, and Expanded Kasilof Section 7/02 0900-2400.
- ^d Expanded Kasilof Section open 7/04 0530-2030 and 7/05 1900-2200. Kasilof Section open 7/05 0700-1900.
- ^e Drift open district wide 7/08 0700-1900. Kasilof Section open 7/07 1700-2200, 7/09 2100-2300, 7/10 0500-1800. Kenai and Kasilof Sections open 7/08 0500-0700 and 1900-2300.
- ^f Kenai and Kasilof Sections and South of Kalgin Island buoy open 7/12 0700-1900.
- ^g Kasilof River Special Harvest Area open 7/14 1500-1800, 7/17 0400-0700. Kenai and Kasilof Sections 7/14 1900-2300 7/15 0500-0700, 7/16 0900-2100. All except north of the north end of Kalgin Island open 7/15 0700-1900. Expanded Kenai and Kasilof Sections 7/17 0900-2100, 7/18 1000-2200.
- ^h Drift open district wide 7/19 0700-1900, Kenai and Kasilof Section open 1900-2200.
- ⁱ All drift open except north of north end of Kalgin Island 7/21 0700-1900, 7/23 0700-1900. Kenai and Kasilof Sections open 7/21 1900-2300, 7/22 0500-1900, 7/23 1900-2300. Kasilof River Special Harvest Area open 7/23 0500-1000 and 2300-2400.
- ^j Kasilof River Special Harvest Area open 7/24 0000-1000 and 2300-2400, 7/25 0000-1400, 7/27 0000-0700 and 1600-2400. Expanded Kenai and Kasilof Sections 7/24 0500-2300. Kenai and Kasilof Sections open 7/25 1100-2300 7/26 1900-2300 and 7/27 0500-2300. All drift open except north of NW point point on Kalgin Island 7/26 0700-1900.
- ^k Kasilof River Special Harvest Area open 7/28 0000-0800, 2200-2400, 7/29 0000-0600, 2000-2400, 7/30 0000-1000, 2300-2400 7/31 0000-1100, 8/6 1600-2300 and 8/7 0500-2300. All district except north of NW point on Kalgin Island open 7/28 0700-1900 and 7/29 0700-1900. Expanded Kenai and Kasilof Sections open 7/30 0600-2200, 7/31 0600-2300, 8/1 0600-2300, 8/3 0600-2300, 8/5 0500-2300, 8/6 0500-2300, 8/7 0500-2300, 8/8 0500-2300. Drift open district wide on 8/2 0700-1900 and 8/4 0700-1900. Kenai and Kasilof Sections open 8/4 1900-2300. Pink salmon drift area open 8/11, 8/13 and 8/16 0700-1900.

Table 5.—Age, sex, and length composition of sockeye salmon in the Coho/Ninilchik Beach commercial set gillnet harvest and the Kasilof Terminal harvest, in Upper Cook Inlet, Alaska, 2004.

	Age Group										Total	
	0.2	1.1	0.3	1.2	2.1	1.3	2.2	3.1	1.4	2.3		2.4
Sample Period 1: 25 - 28 June												
Males			18,495		33,709	13,126				8,353		73,683
Percent			13.14		23.94	9.32				5.93		52.33
Sample Size			62		113	44				28		247
Mean Length ^a			485		549	491				533		521
Std. Error			2		2	3				5		1
Sample Size			62		113	44				28		247
Females			13,424		35,499	11,038				7,159		67,120
Percent			9.53		25.21	7.84				5.08		47.67
Sample Size			45		119	37				24		225
Mean Length			482		541	493				551		522
Std. Error			2		2	2				5		1
Sample Size			45		119	37				24		225
Both Sexes			31,919		69,208	24,164				15,512		140,803
Percent			22.67		49.15	17.16				11.02		100.00
Sample Size			107		232	81				52		472
Mean Length			484		545	492				542		521
Std. Error			2		1	2				3		1
Sample Size			107		232	81				52		472

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Table 5.-Page 2 of 9.

	Age Group										Total	
	0.2	1.1	0.3	1.2	2.1	1.3	2.2	3.1	1.4	2.3		2.4
Sample Period 2: 29 June - 1 July												
Males	214			19,662		18,167	12,183			5,130		55,356
Percent	0.22			20.04		18.52	12.42			5.23		56.43
Sample Size	1			92		85	57			24		259
Mean Length	433			493		551	495			552		518
Std. Error				2		3	3			5		2
Sample Size	1			92		85	57			24		259
Females				13,679		16,244	9,190			3,633		42,746
Percent				13.94		16.56	9.37			3.70		43.57
Sample Size				64		76	43			17		200
Mean Length				488		546	498			551		518
Std. Error				3		3	3			6		2
Sample Size				64		76	43			17		200
Both Sexes	214			33,341		34,411	21,373			8,763		98,102
Percent	0.22			33.99		35.08	21.79			8.93		100.00
Sample Size	1			156		161	100			41		459
Mean Length	433			491		549	496			551		518
Std. Error				2		2	2			4		1
Sample Size	1			156		161	100			41		459

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Table 5.—Page 3 of 9.

		Age Group											
		0.2	1.1	0.3	1.2	2.1	1.3	2.2	3.1	1.4	2.3	2.4	Total
Sample Period 3: 4 - 5 July													
36	Males			10,596		11,586	8,618			2,261			33,061
	Percent			16.41		17.94	13.35			3.50			51.20
	Sample Size			75		82	61			16			234
	Mean Length			489		549	493			536			514
	Std. Error			3		3	3			3			2
	Sample Size			75		82	61			16			234
	Females		141	11,303		9,749	7,629			2,684			31,506
	Percent		0.22	17.51		15.10	11.82			4.16			48.80
	Sample Size		1	80		69	54			19			223
	Mean Length		547	487		548	486			538			510
	Std. Error			2		3	2			6			1
	Sample Size		1	80		69	54			19			223
Both Sexes		141	21,899		21,335	16,247			4,945			64,567	
Percent		0.22	33.92		33.04	25.16			7.66			100.00	
Sample Size		1	155		151	115			35			457	
Mean Length		547	488		549	490			537			512	
Std. Error			2		2	2			3			1	
Sample Size		1	155		151	115			35			457	

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Table 5.—Page 4 of 9.

		Age Group											
		0.2	1.1	0.3	1.2	2.1	1.3	2.2	3.1	1.4	2.3	2.4	Total
Sample Period 4: 8 - 11 July													
Males					8,877		7,551	6,094			2,517		25,039
Percent					14.89		12.67	10.22			4.22		42.00
Sample Size					67		57	46			19		189
Mean Length					485		566	491			549		517
Std. Error					3		5	5			8		2
Sample Size					67		57	46			19		189
Females				10,731		12,454	9,009		132	2,252			34,578
Percent				18.00		20.89	15.11		0.22	3.78			58.00
Sample Size				81		94	68		1	17			261
Mean Length				479		561	487		517	552			515
Std. Error				3		3	3			7			2
Sample Size				81		94	68		1	17			261
Both Sexes				19,608		20,005	15,103		132	4,769			59,617
Percent				32.89		33.56	25.33		0.22	8.00			100.00
Sample Size				148		151	114		1	36			450
Mean Length				482		563	488		517	550			516
Std. Error				2		3	3			5			1
Sample Size				148		151	114		1	36			450

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Table 5.—Page 5 of 9.

		Age Group										Total	
		0.2	1.1	0.3	1.2	2.1	1.3	2.2	3.1	1.4	2.3	2.4	Total
Sample Period 5: 12 - 17 July													
38	Males			21,335		18,030	24,642				6,310		70,317
	Percent			15.67		13.25	18.10				4.64		51.66
	Sample Size			71		60	82				21		234
	Mean Length			486		557	486				549		510
	Std. Error			3		4	2				6		2
	Sample Size			71		60	82				21		234
	Females			19,232		18,330	21,036			300	6,911		65,809
	Percent			14.13		13.47	15.45		0.22	5.08			48.34
	Sample Size			64		61	70		1	23			219
	Mean Length			485		564	487		607	566			517
	Std. Error			3		4	2			6			2
	Sample Size			64		61	70		1	23			219
Both Sexes			40,567		36,360	45,678			300	13,221		136,126	
Percent			29.80		26.71	33.56		0.22	9.71			100.00	
Sample Size			135		121	152		1	44			453	
Mean Length			485		561	486		607	557			513	
Std. Error			2		3	2			4			1	
Sample Size			135		121	152		1	44			453	

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Table 5.—Page 6 of 9.

		Age Group												
		0.2	1.1	0.3	1.2	2.1	1.3	2.2	3.1	1.4	2.3	2.4	Total	
Sample Period 6: 18 - 22 July														
39	Males		107		6,836		7,477	6,516		427	1,175		22,538	
	Percent		0.22		14.13		15.45	13.47		0.88	2.43		46.58	
	Sample Size		1		64		70	61		4	11		211	
	Mean Length		363		477		582	475		610	572		518	
	Std. Error				4		3	3		12	11		2	
	Sample Size		1		64		70	61		4	11		211	
	Females				6,729		7,263	9,507	107		2,136	107		25,849
	Percent				13.91		15.01	19.65	0.22		4.41	0.22		53.42
	Sample Size				63		68	89	1		20	1		242
	Mean Length				475		560	479	401		540	624		506
	Std. Error				3		3	2			7			2
	Sample Size				63		68	89	1		20	1		242
	Both Sexes		107		13,565		14,740	16,023	107	427	3,311	107		48,387
Percent		0.22		28.03		30.46	33.11	0.22	0.88	6.84	0.22		100.00	
Sample Size		1		127		138	150	1	4	31	1		453	
Mean Length		363		476		571	477	401	610	551	624		512	
Std. Error				3		2	2		12	6			1	
Sample Size		1		127		138	150	1	4	31	1		453	

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Table 5.-Page 7 of 9.

		Age Group										Total	
		0.2	1.1	0.3	1.2	2.1	1.3	2.2	3.1	1.4	2.3	2.4	Total
Sample Period 7: 23 - 29 July													
40	Males			138	6,645	277	16,474	7,891		277	3,461	138	35,301
	Percent			0.22	10.48	0.44	25.98	12.45		0.44	5.46	0.22	55.68
	Sample Size			1	48	2	119	57		2	25	1	255
	Mean Length			586	494	378	595	500		654	576	617	552
	Std. Error				4	8	3	4		18	8		2
	Sample Size			1	48	2	119	57		2	25	1	255
	Females			138	6,783	138	12,461	5,537		415	2,492	138	28,102
	Percent			0.22	10.70	0.22	19.65	8.73		0.65	3.93	0.22	44.32
	Sample Size			1	49	1	90	40		3	18	1	203
	Mean Length			593	487	422	574	497		609	569	570	537
	Std. Error				3		3	4		8	8		2
	Sample Size			1	49	1	90	40		3	18	1	203
	Both Sexes			276	13,428	415	28,935	13,428		692	5,953	276	63,403
Percent			0.44	21.18	0.65	45.64	21.18		1.09	9.39	0.44	100.00	
Sample Size			2	97	3	209	97		5	43	2	458	
Mean Length			590	491	392	586	499		627	573	594	545	
Std. Error				3	8	2	3		9	6		1	
Sample Size			2	97	3	209	97		5	43	2	458	

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Table 5.-Page 8 of 9.

		Age Group											
		0.2	1.1	0.3	1.2	2.1	1.3	2.2	3.1	1.4	2.3	2.4	Total
Sample Period 8: 30 July - 7 August													
Males					4,376	81	3,484	6,645		243	1,377		16,206
Percent					13.78	0.26	10.97	20.92		0.77	4.34		51.02
Sample Size					54	1	43	82		3	17		200
Mean Length					467	357	572	476		572	536		500
Std. Error					3		5	2		29	8		2
Sample Size					54	1	43	82		3	17		200
Females					4,942		3,727	4,538			2,350		15,557
Percent					15.56		11.73	14.29			7.40		48.98
Sample Size					61		46	56			29		192
Mean Length					469		530	472			520		492
Std. Error					2		4	2			6		2
Sample Size					61		46	56			29		192
Both Sexes					9,318	81	7,211	11,183		243	3,727		31,763
Percent					29.34	0.26	22.70	35.21		0.77	11.73		100.00
Sample Size					115	1	89	138		3	46		392
Mean Length					468	357	550	475		572	526		496
Std. Error					2		3	1		29	5		1
Sample Size					115	1	89	138		3	46		392

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Table 5.—Page 9 of 9.

	Age Group											Total
	0.2	1.1	0.3	1.2	2.1	1.3	2.2	3.1	1.4	2.3	2.4	
All Periods Combined:												
Males	214	107	138	96,822	358	116,478	85,715		947	30,584	138	331,501
Percent	0.03	0.02	0.02	15.06	0.06	18.12	13.34		0.15	4.76	0.02	51.57
Sample Size	1	1	1	533	3	629	490		9	161	1	1,829
Mean Length	433	363	586	486	373	561	489		613	547	617	519
Std. Error			1	1	8	1	1		11	2		1
Sample Size	1	1	1	533	3	629	490		9	161	1	1,829
Females			279	86,823	138	115,727	77,484	107	847	29,617	245	311,267
Percent			0.04	13.51	0.02	18.00	12.05	0.02	0.13	4.61	0.04	48.43
Sample Size			2	507	1	623	457	1	5	167	2	1,765
Mean Length			570	483	422	553	488	401	594	552	594	517
Std. Error				1		1	1		8	2		1
Sample Size			2	507	1	623	457	1	5	167	2	1,765
Both Sexes	214	107	417	183,645	496	232,205	163,199	107	1,794	60,201	383	642,768
Percent	0.03	0.02	0.06	28.57	0.08	36.13	25.39	0.02	0.28	9.37	0.06	100.00
Sample Size	1	1	3	1,040	4	1,252	947	1	14	328	3	3,594
Mean Length	433	363	575	485	387	557	488	401	604	549	602	518
Std. Error				1	8	1	1		8	2		0
Sample Size	1	1	3	1,040	4	1,252	947	1	14	328	3	3,594

^a Mean length in mm.

Table 6.—Age, sex, and length composition of sockeye salmon in the North Kalifornsky Beach commercial set gillnet harvest, Upper Cook Inlet, Alaska, 2004.

	Age Group										Total
	0.3	1.2	2.1	1.3	2.2	3.1	1.4	2.3	3.2	2.4	
Sample Period 1:	8 July										
Males		499		404	410			95	6	6	1,420
Percent		19.13		15.49	15.72			3.64	0.23	0.23	54.45
Sample Size		84		68	69			16	1	1	239
Mean Length ^a		486		572	488			552	543	630	516
Std. Error		3		5	2			8			2
Sample Size		84		68	69			16	1	1	239
Females	12	303		374	392			107			1,188
Percent	0.46	11.62		14.34	15.03			4.10			45.55
Sample Size	2	51		63	66			18			200
Mean Length	573	479		561	487			579			517
Std. Error	3	3		3	2			5			2
Sample Size	2	51		63	66			18			200
Both Sexes	12	802		778	802			202	6	6	2,608
Percent	0.46	30.75		29.83	30.75			7.75	0.23	0.23	100.00
Sample Size	2	135		131	135			34	1	1	439
Mean Length	573	484		566	487			567	543	630	517
Std. Error	3	2		3	2			5			1
Sample Size	2	135		131	135			34	1	1	439

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Table 6.-Page 2 of 9.

	Age Group										Total
	0.3	1.2	2.1	1.3	2.2	3.1	1.4	2.3	3.2	2.4	
Sample Period 2: 12 July											
Males	6	337		426	362		6	156			1,293
Percent	0.21	11.99		15.15	12.88		0.21	5.55			46.00
Sample Size	1	54		68	58		1	25			207
Mean Length	590	488		559	488		597	562			521
Std. Error		4		5	3			7			2
Sample Size	1	54		68	58		1	25			207
Females	6	219		837	256			200			1,518
Percent	0.21	7.79		29.78	9.11			7.11			54.00
Sample Size	1	35		134	41			32			243
Mean Length	536	493		556	486			554			535
Std. Error		4		2	4			5			2
Sample Size	1	35		134	41			32			243
Both Sexes	12	556		1,263	618		6	356			2,811
Percent	0.43	19.78		44.93	21.99		0.21	12.66			100.00
Sample Size	2	89		202	99		1	57			450
Mean Length	563	490		557	487		597	557			529
Std. Error		3		2	3			4			1
Sample Size	2	89		202	99		1	57			450

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Table 6.-Page 3 of 9.

	Age Group										Total
	0.3	1.2	2.1	1.3	2.2	3.1	1.4	2.3	3.2	2.4	
Sample Period 3: 14 - 16 July											
Males	10,111		21,846	11,014		361	3,792				47,124
Percent	11.48		24.79	12.50		0.41	4.30				53.48
Sample Size	56		121	61		2	21				261
Mean Length	497		593	495		622	580				549
Std. Error	3		2	3		20	7				2
Sample Size	56		121	61		2	21				261
Females	7,041		22,750	7,041			4,153				40,985
Percent	7.99		25.82	7.99			4.71				46.52
Sample Size	39		126	39			23				227
Mean Length	497		577	499			575				549
Std. Error	4		2	5			5				2
Sample Size	39		126	39			23				227
Both Sexes	17,152		44,596	18,055		361	7,945				88,109
Percent	19.47		50.61	20.49		0.41	9.02				100.00
Sample Size	95		247	100		2	44				488
Mean Length	497		585	496		622	578				549
Std. Error	3		2	3		20	4				1
Sample Size	95		247	100		2	44				488

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Table 6.-Page 4 of 9.

	Age Group										Total
	0.3	1.2	2.1	1.3	2.2	3.1	1.4	2.3	3.2	2.4	
Sample Period 4: 17 - 19 July											
Males	44	1,948		4,871	2,081		44	753			9,741
Percent	0.22	9.61		24.02	10.26		0.22	3.71			48.03
Sample Size	1	44		110	47		1	17			220
Mean Length	582	483		590	480		618	586			545
Std. Error		5		3	3			9			2
Sample Size	1	44		110	47		1	17			220
Females		2,170		4,338	2,568		89	1,373			10,538
Percent		10.70		21.39	12.66		0.44	6.77			51.97
Sample Size		49		98	58		2	31			238
Mean Length		476		581	491		606	563			535
Std. Error		3		2	4		12	6			2
Sample Size		49		98	58		2	31			238
Both Sexes	44	4,118		9,209	4,649		133	2,126			20,279
Percent	0.22	20.31		45.41	22.93		0.66	10.48			100.00
Sample Size	1	93		208	105		3	48			458
Mean Length	582	479		586	486		610	571			540
Std. Error		3		2	3		12	5			1
Sample Size	1	93		208	105		3	48			458

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Table 6.—Page 5 of 9.

	Age Group										Total
	0.3	1.2	2.1	1.3	2.2	3.1	1.4	2.3	3.2	2.4	
Sample Period 5: 21 - 23 July											
Males	8,435		11,125		5,256			1,711			26,527
Percent	15.20		20.05		9.47			3.08			47.80
Sample Size	69		91		43			14			217
Mean Length	476		582		477			580			527
Std. Error	3		3		3			5			2
Sample Size	69		91		43			14			217
Females	7,701		12,957		5,134		367	2,812			28,971
Percent	13.88		23.35		9.25		0.66	5.07			52.20
Sample Size	63		106		42		3	23			237
Mean Length	478		563		482		577	557			525
Std. Error	3		2		3		21	6			1
Sample Size	63		106		42		3	23			237
Both Sexes	16,136		24,082		10,390		367	4,523			55,498
Percent	29.07		43.39		18.72		0.66	8.15			100.00
Sample Size	132		197		85		3	37			454
Mean Length	477		571		479		577	566			526
Std. Error	2		2		2		21	4			1
Sample Size	132		197		85		3	37			454

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Table 6.-Page 6 of 9.

		Age Group										
		0.3	1.2	2.1	1.3	2.2	3.1	1.4	2.3	3.2	2.4	Total
Sample Period 6: 24 - 27 July												
Males			914	152	26,064	1,676		762	4,572			34,140
Percent			1.33	0.22	38.00	2.44		1.11	6.67			49.78
Sample Size			6	1	171	11		5	30			224
Mean Length			492	395	583	489		598	580			575
Std. Error			12		2	15		16	4			2
Sample Size			6	1	171	11		5	30			224
Females	457	762			28,196	1,067		152	3,810			34,444
Percent	0.67	1.11			41.11	1.56		0.22	5.56			50.22
Sample Size	3	5			185	7		1	25			226
Mean Length	566	497			558	485		590	556			554
Std. Error	14	13			1	9			5			1
Sample Size	3	5			185	7		1	25			226
Both Sexes	457	1,676	152		54,260	2,743		914	8,382			68,584
Percent	0.67	2.44	0.22		79.11	4.00		1.33	12.22			100.00
Sample Size	3	11	1		356	18		6	55			450
Mean Length	566	494	395		570	488		597	569			565
Std. Error	14	9			1	10		16	3			1
Sample Size	3	11	1		356	18		6	55			450

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Table 6.-Page 7 of 9.

		Age Group										
		0.3	1.2	2.1	1.3	2.2	3.1	1.4	2.3	3.2	2.4	Total
Sample Period 7: 28 - 30 July												
49	Males	2,052		6,332	2,638	59		1,641				12,722
	Percent	8.06		24.89	10.37	0.23		6.45				50.00
	Sample Size	35		108	45	1		28				217
	Mean Length	485		579	482	367		576				542
	Std. Error	6		3	4			6				2
	Sample Size	35		108	45	1		28				217
	Females	2,169		6,860	2,462			1,231				12,722
	Percent	8.52		26.96	9.68			4.84				50.00
	Sample Size	37		117	42			21				217
	Mean Length	477		557	482			557				529
	Std. Error	4		2	4			7				2
	Sample Size	37		117	42			21				217
Both Sexes	4,221		13,192	5,100	59		2,872				25,444	
Percent	16.59		51.85	20.04	0.23		11.29				100.00	
Sample Size	72		225	87	1		49				434	
Mean Length	481		568	482	367		568				536	
Std. Error	3		2	3			5				1	
Sample Size	72		225	87	1		49				434	

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Table 6.-Page 8 of 9.

	Age Group										Total
	0.3	1.2	2.1	1.3	2.2	3.1	1.4	2.3	3.2	2.4	
Sample Period 8: 31 July - 7 August											
Males	3,506		12,467	3,798		97	2,337		97	22,302	
Percent	8.80		31.30	9.54		0.24	5.87		0.24	55.99	
Sample Size	36		128	39		1	24		1	229	
Mean Length	501		596	499		622	591		597	564	
Std. Error	5		2	4			5			2	
Sample Size	36		128	39		1	24		1	229	
Females	1,948		10,128	1,948		97	3,409			17,530	
Percent	4.89		25.43	4.89		0.24	8.56			44.01	
Sample Size	20		104	20		1	35			180	
Mean Length	495		570	495		390	570			552	
Std. Error	7		2	6			4			2	
Sample Size	20		104	20		1	35			180	
Both Sexes	5,454		22,595	5,746		97	5,746		97	39,832	
Percent	13.69		56.73	14.43		0.24	0.24	14.43	0.24	100.00	
Sample Size	56		232	59		1	59		1	409	
Mean Length	499		584	498		390	622		597	559	
Std. Error	4		2	3			3			1	
Sample Size	56		232	59		1	59		1	409	

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Table 6.—Page 9 of 9.

	Age Group										Total
	0.3	1.2	2.1	1.3	2.2	3.1	1.4	2.3	3.2	2.4	
All Periods Combined:											
Males	50	27,802	152	83,535	27,235	59	1,270	15,057	6	103	155,269
Percent	0.02	9.17	0.05	27.55	8.98	0.02	0.42	4.97	0.00	0.03	51.22
Sample Size	2	384	1	865	373	1	10	175	1	2	1,814
Mean Length	583	489	395	587	489	367	607	581	543	599	552
Std. Error		2		1	2		13	2			1
Sample Size	2	384	1	865	373	1	10	175	1	2	1,814
Females	475	22,313		86,440	20,868	97	608	17,094			147,895
Percent	0.16	7.36		28.51	6.88	0.03	0.20	5.64			48.78
Sample Size	6	299		933	315	1	6	208			1,768
Mean Length	565	486		566	490	390	584	564			543
Std. Error	13	2		1	2		17	2			1
Sample Size	6	299		933	315	1	6	208			1,768
Both Sexes	525	50,115	152	169,975	48,103	156	1,878	32,152	6	103	303,164
Percent	0.17	16.53	0.05	56.07	15.87	0.05	0.62	10.61	0.00	0.03	100.00
Sample Size	8	683	1	1,798	688	2	16	383	1	2	3,582
Mean Length	567	488	395	577	490	381	600	572	543	599	548
Std. Error	13	1		1	1		10	2			1
Sample Size	8	683	1	1,798	688	2	16	383	1	2	3,582

^a Mean length in mm.

Table 7.—Age, sex, and length composition of sockeye salmon in the South Kalifornsky Beach commercial set gillnet harvest, Upper Cook Inlet, Alaska, 2004.

	Age Group									Total
	0.2	1.2	2.1	1.3	2.2	1.4	2.3	2.4	3.3	
Sample Period 1: 25 June - 1 July										
Males	14,631		12,014	6,623		4,467				37,735
Percent	20.70		16.99	9.37		6.32				53.38
Sample Size	95		78	43		29				245
Mean Length ^a	491		553	494		552				518
Std. Error	2		3	3		5				2
Sample Size	95		78	43		29				245
Females	9,241		13,708	7,393		2,618				32,960
Percent	13.07		19.39	10.46		3.70				46.62
Sample Size	60		89	48		17				214
Mean Length	491		552	493		549				522
Std. Error	3		2	3		8				1
Sample Size	60		89	48		17				214
Both Sexes	23,872		25,722	14,016		7,085				70,695
Percent	33.77		36.38	19.83		10.02				100.00
Sample Size	155		167	91		46				459
Mean Length	491		552	494		551				520
Std. Error	2		2	2		4				1
Sample Size	155		167	91		46				459

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Table 7.-Page 2 of 10.

	Age Group									
	0.2	1.2	2.1	1.3	2.2	1.4	2.3	2.4	3.3	Total
Sample Period 2: 4 - 5 July										
Males		2,876		1,945	1,780		548		27	7,176
Percent		22.20		15.01	13.74		4.23		0.21	55.39
Sample Size		105		71	65		20		1	262
Mean Length		494		557	491		539		598	514
Std. Error		2		3	3		5			1
Sample Size		105		71	65		20		1	262
Females		1,671		2,301	1,123		685			5,780
Percent		12.90		17.76	8.67		5.29			44.61
Sample Size		61		84	41		25			211
Mean Length		488		547	493		548			520
Std. Error		2		3	4		4			2
Sample Size		61		84	41		25			211
Both Sexes		4,547		4,246	2,903		1,233		27	12,956
Percent		35.10		32.77	22.41		9.52		0.21	100.00
Sample Size		166		155	106		45		1	473
Mean Length		492		552	492		544		598	517
Std. Error		2		2	2		3			1
Sample Size		166		155	106		45		1	473

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Table 7.-Page 3 of 10.

		Age Group									
		0.2	1.2	2.1	1.3	2.2	1.4	2.3	2.4	3.3	Total
Sample Period 3: 8 - 9 July											
54	Males		1,091		1,326	953		304			3,674
	Percent		17.03		20.69	14.87		4.74			57.33
	Sample Size		79		96	69		22			266
	Mean Length		492		569	492		556			525
	Std. Error		3		3	3		8			2
	Sample Size		79		96	69		22			266
	Females		896		746	760	28	290	14		2,734
	Percent		13.98		11.64	11.86	0.44	4.53	0.22		42.67
	Sample Size		65		54	55	2	21	1		198
	Mean Length		481		563	487	561	558	519		514
	Std. Error		3		3	3	12	5			2
	Sample Size		65		54	55	2	21	1		198
Both Sexes		1,987		2,072	1,713	28	594	14		6,408	
Percent		31.01		32.33	26.73	0.44	9.27	0.22		100.00	
Sample Size		144		150	124	2	43	1		464	
Mean Length		487		567	490	561	557	519		521	
Std. Error		2		2	2	12	5			1	
Sample Size		144		150	124	2	43	1		464	

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Table 7.-Page 4 of 10.

	Age Group									Total	
	0.2	1.2	2.1	1.3	2.2	1.4	2.3	2.4	3.3		
Sample Period 4: 10 - 12 July											
Males		889		699	770	12	201				2,571
Percent		16.53		13.00	14.32	0.22	3.74				47.81
Sample Size		75		59	65	1	17				217
Mean Length		489		572	482	620	559				516
Std. Error		3		5	2		11				2
Sample Size		75		59	65	1	17				217
Females		616		1,172	770	12	237				2,807
Percent		11.45		21.79	14.32	0.22	4.41				52.19
Sample Size		52		99	65	1	20				237
Mean Length		484		560	487	594	557				523
Std. Error		4		3	2		8				2
Sample Size		52		99	65	1	20				237
Both Sexes		1,505		1,871	1,540	24	438				5,378
Percent		27.98		34.79	28.64	0.45	8.14				100.00
Sample Size		127		158	130	2	37				454
Mean Length		487		564	485	607	558				519
Std. Error		2		3	2		7				1
Sample Size		127		158	130	2	37				454

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Table 7.-Page 5 of 10.

	Age Group									
	0.2	1.2	2.1	1.3	2.2	1.4	2.3	2.4	3.3	Total
Sample Period 5: 14 - 16 July										
Males	12,646		7,502	16,076			2,572			38,796
Percent	12.91		7.66	16.41			2.63			39.61
Sample Size	59		35	75			12			181
Mean Length	480		571	476			539			500
Std. Error	3		5	2			10			2
Sample Size	59		35	75			12			181
Females	11,574		21,650	18,433		214	7,073		214	59,158
Percent	11.82		22.10	18.82		0.22	7.22		0.22	60.39
Sample Size	54		101	86		1	33		1	276
Mean Length	473		561	485		580	549		558	518
Std. Error	3		3	2			6			2
Sample Size	54		101	86		1	33		1	276
Both Sexes	24,220		29,152	34,509		214	9,645		214	97,954
Percent	24.73		29.76	35.23		0.22	9.85		0.22	100.00
Sample Size	113		136	161		1	45		1	457
Mean Length	476		563	481		580	547		558	511
Std. Error	2		3	2			5			1
Sample Size	113		136	161		1	45		1	457

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Table 7.-Page 6 of 10.

	Age Group									Total
	0.2	1.2	2.1	1.3	2.2	1.4	2.3	2.4	3.3	
Sample Period 6: 17 - 19 July										
Males	38	2,948		2,488	1,646		498			7,618
Percent	0.21	16.56		13.98	9.25		2.80			42.79
Sample Size	1	77		65	43		13			199
Mean Length	442	476		582	471		570			516
Std. Error		4		4	3		9			2
Sample Size	1	77		65	43		13			199
Females		2,910	38	2,986	3,638	38	536	38		10,184
Percent		16.35	0.21	16.77	20.44	0.21	3.01	0.21		57.21
Sample Size		76	1	78	95	1	14	1		266
Mean Length		469	376	564	479	611	570	589		506
Std. Error		2		3	2		8			1
Sample Size		76	1	78	95	1	14	1		266
Both Sexes	38	5,858	38	5,474	5,284	38	1,034	38		17,802
Percent	0.21	32.91	0.21	30.75	29.68	0.21	5.81	0.21		100.00
Sample Size	1	153	1	143	138	1	27	1		465
Mean Length	442	473	376	572	476	611	570	589		510
Std. Error		2		2	2		6			1
Sample Size	1	153	1	143	138	1	27	1		465

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Table 7.-Page 7 of 10.

	Age Group									Total
	0.2	1.2	2.1	1.3	2.2	1.4	2.3	2.4	3.3	
Sample Period 7: 21 - 23 July										
Males		5,393	88	7,249	4,332	88	1,061			18,211
Percent		13.15	0.21	17.67	10.56	0.21	2.59			44.40
Sample Size		61	1	82	49	1	12			206
Mean Length		475	358	594	470	638	582			528
Std. Error		3		3	3		11			2
Sample Size		61	1	82	49	1	12			206
Females		7,514		5,923	8,046	177	1,061	88		22,809
Percent		18.32		14.44	19.61	0.43	2.59	0.21		55.60
Sample Size		85		67	91	2	12	1		258
Mean Length		478		564	478	602	567	588		506
Std. Error		2		3	2	7	8			1
Sample Size		85		67	91	2	12	1		258
Both Sexes		12,907	88	13,172	12,378	265	2,122	88		41,020
Percent		31.47	0.21	32.11	30.18	0.65	5.17	0.21		100.00
Sample Size		146	1	149	140	3	24	1		464
Mean Length		477	358	580	475	614	575	588		516
Std. Error		2		2	2	7	7			1
Sample Size		146	1	149	140	3	24	1		464

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Table 7.-Page 8 of 10.

	Age Group									Total
	0.2	1.2	2.1	1.3	2.2	1.4	2.3	2.4	3.3	
Sample Period 8: 24 - 27 July										
Males		4,374		12,413	3,901	118	1,537	118		22,461
Percent		9.51		26.99	8.48	0.26	3.34	0.26		48.84
Sample Size		37		105	33	1	13	1		190
Mean Length		472		591	486	623	600	618		550
Std. Error		4		2	5		9			2
Sample Size		37		105	33	1	13	1		190
Females		6,502		8,392	5,320	355	2,955			23,524
Percent		14.14		18.25	11.57	0.77	6.43			51.16
Sample Size		55		71	45	3	25			199
Mean Length		475		567	479	617	560			522
Std. Error		3		3	3	13	6			2
Sample Size		55		71	45	3	25			199
Both Sexes		10,876		20,805	9,221	473	4,492	118		45,985
Percent		23.65		45.24	20.05	1.03	9.77	0.26		100.00
Sample Size		92		176	78	4	38	1		389
Mean Length		474		581	482	619	574	618		536
Std. Error		2		2	2	13	5			1
Sample Size		92		176	78	4	38	1		389

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Table 7.-Page 9 of 10.

	Age Group									Total
	0.2	1.2	2.1	1.3	2.2	1.4	2.3	2.4	3.3	
Sample Period 9: 28 July - 7 August										
Males		5,026		13,445	6,660		2,387	126		27,644
Percent		8.68		23.21	11.50		4.12	0.22		47.72
Sample Size		40		107	53		19	1		220
Mean Length		461		577	469		557	566		528
Std. Error		3		2	3		8			2
Sample Size		40		107	53		19	1		220
Females		6,660		13,067	9,047	126	1,382			30,282
Percent		11.50		22.56	15.62	0.22	2.39			52.28
Sample Size		53		104	72	1	11			241
Mean Length		467		552	471	617	536			509
Std. Error		2		2	2		7			1
Sample Size		53		104	72	1	11			241
Both Sexes		11,686		26,512	15,707	126	3,769	126		57,926
Percent		20.17		45.77	27.12	0.22	6.51	0.22		100.00
Sample Size		93		211	125	1	30	1		461
Mean Length		464		565	470	617	549	566		518
Std. Error		2		2	2		6			1
Sample Size		93		211	125	1	30	1		461

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Table 7.—Page 10 of 10.

	Age Group									Total
	0.2	1.2	2.1	1.3	2.2	1.4	2.3	2.4	3.3	
All Periods Combined:										
Males	38	49,874	88	59,081	42,741	218	13,575	244	27	165,886
Percent	0.01	14.00	0.02	16.59	12.00	0.06	3.81	0.07	0.01	46.58
Sample Size	1	628	1	698	495	3	157	2	1	1,986
Mean Length	442	481	358	575	479	629	559	591	598	521
Std. Error		1		1	1		3			1
Sample Size	1	628	1	698	495	3	157	2	1	1,986
Females		47,584	38	69,945	54,530	950	16,837	140	214	190,238
Percent		13.36	0.01	19.64	15.31	0.27	4.73	0.04	0.06	53.42
Sample Size		561	1	747	598	11	178	3	1	2,100
Mean Length		477	376	558	482	604	552	581	558	516
Std. Error		1		1	1	8	3			1
Sample Size		561	1	747	598	11	178	3	1	2,100
Both Sexes	38	97,458	126	129,026	97,271	1,168	30,412	384	241	356,124
Percent	0.01	27.37	0.04	36.23	27.31	0.33	8.54	0.11	0.07	100.00
Sample Size	1	1,189	2	1,445	1,093	14	335	5	2	4,086
Mean Length	442	479	363	566	481	608	555	588	562	518
Std. Error		1		1	1	8	2			0
Sample Size	1	1,189	2	1,445	1,093	14	335	5	2	4,086

^a Mean length in mm.

Table 8.—Age, sex, and length composition of sockeye salmon in the combined Kalifornsky Beach commercial set gillnet harvest, Upper Cook Inlet, Alaska, 2004.

	Age Group											Total	
	0.2	0.3	1.2	2.1	1.3	2.2	3.1	1.4	2.3	3.2	2.4		3.3
Sample Period 1: 25 June - 1 July													
Males		14,631			12,014	6,623			4,467				37,735
Percent		20.70			16.99	9.37			6.32				53.38
Sample Size		95			78	43			29				245
Mean Length ^a		491			553	494			552				518
Std. Error		2			3	3			5				2
Sample Size		95			78	43			29				245
Females		9,241			13,708	7,393			2,618				32,960
Percent		13.07			19.39	10.46			3.70				46.62
Sample Size		60			89	48			17				214
Mean Length		491			552	493			549				522
Std. Error		3			2	3			8				1
Sample Size		60			89	48			17				214
Both Sexes		23,872			25,722	14,016			7,085				70,695
Percent		33.77			36.38	19.83			10.02				100.00
Sample Size		155			167	91			46				459
Mean Length		491			552	494			551				520
Std. Error		2			2	2			4				1
Sample Size		155			167	91			46				459

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Table 8.-Page 2 of 8.

		Age Group										Total		
		0.2	0.3	1.2	2.1	1.3	2.2	3.1	1.4	2.3	3.2	2.4	3.3	Total
Sample Period 2: 4 - 12 July														
Males		13	5,253		4,789	4,312		26	1,323	13	13		13	15,755
Percent		0.04	17.42		15.88	14.30		0.09	4.39	0.04	0.04		0.04	52.24
Sample Size		1	397		362	326		2	100	1	1		1	1,191
Mean Length		590	490		566	488		609	554	543	630		598	519
Std. Error			1		2	1		11	4					1
Sample Size		1	397		362	326		2	100	1	1		1	1,191
Females		40	3,492		5,741	3,545		40	1,535		13			14,406
Percent		0.13	11.58		19.03	11.75		0.13	5.09		0.04			47.76
Sample Size		3	264		434	268		3	116		1			1,089
Mean Length		560	485		557	488		572	558		519			522
Std. Error		12	1		1	1		13	3					1
Sample Size		3	264		434	268		3	116		1			1,089
Both Sexes		53	8,745		10,530	7,857		66	2,858	13	26		13	30,161
Percent		0.18	28.99		34.91	26.05		0.22	9.48	0.04	0.09		0.04	100.00
Sample Size		4	661		796	594		5	216	1	2		1	2,280
Mean Length		568	488		561	488		586	556	543	575		598	520
Std. Error		12	1		1	1		9	2					1
Sample Size		4	661		796	594		5	216	1	2		1	2,280

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Table 8.-Page 3 of 8.

	Age Group											Total	
	0.2	0.3	1.2	2.1	1.3	2.2	3.1	1.4	2.3	3.2	2.4		3.3
Sample Period 3: 14 - 16 July													
Males		22,643			30,715	26,777		394	6,497				87,026
Percent		12.17			16.51	14.39		0.21	3.49				46.77
Sample Size		115			156	136		2	33				442
Mean Length		488			588	484		622	565				529
Std. Error		2			2	2		20	6				1
Sample Size		115			156	136		2	33				442
Females		18,311			44,694	24,612		197	11,026			197	99,037
Percent		9.84			24.02	13.23		0.11	5.93			0.11	53.23
Sample Size		93			227	125		1	56			1	503
Mean Length		483			569	489		580	560			558	532
Std. Error		2			2	2			4				1
Sample Size		93			227	125		1	56			1	503
Both Sexes		40,954			75,409	51,389		591	17,523			197	186,063
Percent		22.01			40.53	27.62		0.32	9.42			0.11	100.00
Sample Size		208			383	261		3	89			1	945
Mean Length		486			577	487		608	562			558	531
Std. Error		2			1	2		20	4				1
Sample Size		208			383	261		3	89			1	945

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Table 8.-Page 4 of 8.

		Age Group											Total	
		0.2	0.3	1.2	2.1	1.3	2.2	3.1	1.4	2.3	3.2	2.4	3.3	Total
Sample Period 4: 17 - 19 July														
65	Males	41	41	4,992		7,221	3,713		41	1,238				17,287
	Percent	0.11	0.11	13.11		18.96	9.75		0.11	3.25				45.40
	Sample Size	1	1	121		175	90		1	30				419
	Mean Length	442	582	479		587	476		618	579				531
	Std. Error			3		2	2			7				1
	Sample Size	1	1	121		175	90		1	30				419
	Females			5,157	41	7,262	6,312		124	1,857		41		20,794
	Percent			13.54	0.11	19.07	16.58		0.33	4.88		0.11		54.60
	Sample Size			125	1	176	153		3	45		1		504
	Mean Length			472	376	574	483		608	565		589		520
	Std. Error			2		2	2		7	5				1
	Sample Size			125	1	176	153		3	45		1		504
	Both Sexes	41	41	10,149	41	14,483	10,025		165	3,095		41		38,081
	Percent	0.11	0.11	26.65	0.11	38.03	26.33		0.43	8.13		0.11		100.00
	Sample Size	1	1	246	1	351	243		4	75		1		923
	Mean Length	442	582	475	376	580	481		610	571		589		525
	Std. Error			2		2	2		7	4				1
	Sample Size	1	1	246	1	351	243		4	75		1		923

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Table 8.-Page 5 of 8.

		Age Group												
		0.2	0.3	1.2	2.1	1.3	2.2	3.1	1.4	2.3	3.2	2.4	3.3	Total
Sample Period 5: 21 - 23 July														
69	Males		13,668		105	18,189	9,673		105	2,734				44,474
	Percent		14.16		0.11	18.85	10.02		0.11	2.83				46.08
	Sample Size		130		1	173	92		1	26				423
	Mean Length		476		358	587	473		638	581				527
	Std. Error		2			2	2			6				1
	Sample Size		130		1	173	92		1	26				423
	Females		15,561			18,188	13,984		526	3,680		105		52,044
	Percent		16.12			18.84	14.49		0.54	3.81		0.11		53.92
	Sample Size		148			173	133		5	35		1		495
	Mean Length		478			563	479		587	561		588		515
	Std. Error		2			2	2		13	5				1
	Sample Size		148			173	133		5	35		1		495
Both Sexes		29,229		105	36,377	23,657		631	6,414		105		96,518	
Percent		30.28		0.11	37.69	24.51		0.65	6.65		0.11		100.00	
Sample Size		278		1	346	225		6	61		1		918	
Mean Length		477		358	575	477		595	569		588		521	
Std. Error		1			1	1		13	4				1	
Sample Size		278		1	346	225		6	61		1		918	

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Table 8.-Page 6 of 8.

	Age Group												Total
	0.2	0.3	1.2	2.1	1.3	2.2	3.1	1.4	2.3	3.2	2.4	3.3	
Sample Period 6: 24 - 27 July													
Males			5,872	137	37,688	6,008		819	5,872		137		56,533
Percent			5.13	0.12	32.90	5.24		0.71	5.13		0.12		49.34
Sample Size			43	1	276	44		6	43		1		414
Mean Length			475	395	586	487		602	586		618		564
Std. Error			4		1	5		14	4				1
Sample Size			43	1	276	44		6	43		1		414
Females	410	8,193			34,958	7,101		546	6,828				58,036
Percent	0.36	7.15			30.51	6.20		0.48	5.96				50.66
Sample Size	3	60			256	52		4	50				425
Mean Length	566	477			561	480		611	558				539
Std. Error	14	3			1	3		11	4				1
Sample Size	3	60			256	52		4	50				425
Both Sexes	410	14,065	137	72,646	13,109		1,365	12,700		137			114,569
Percent	0.36	12.28	0.12	63.41	11.44		1.19	11.09		0.12			100.00
Sample Size	3	103	1	532	96		10	93		1			839
Mean Length	566	476	395	574	483		605	571		618			551
Std. Error	14	2		1	3		10	3					1
Sample Size	3	103	1	532	96		10	93		1			839

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Table 8.-Page 7 of 8.

		Age Group												
		0.2	0.3	1.2	2.1	1.3	2.2	3.1	1.4	2.3	3.2	2.4	3.3	Total
Sample Period 7: 28 July - 7 August														
68	Males		10,487		32,407	12,944		94	94	6,708		189		62,923
	Percent		8.51		26.30	10.51		0.08	0.08	5.44		0.15		51.07
	Sample Size		111		343	137		1	1	71		2		666
	Mean Length		481		585	482		367	622	576		582		545
	Std. Error		3		2	2				4		15		1
	Sample Size		111		343	137		1	1	71		2		666
	Females		10,393		30,707	12,660		94	94	6,330				60,278
	Percent		8.44		24.92	10.28		0.08	0.08	5.14				48.93
	Sample Size		110		325	134		1	1	67				638
	Mean Length		476		560	478		390	617	560				528
	Std. Error		2		1	2				4				1
	Sample Size		110		325	134		1	1	67				638
Both Sexes		20,880		63,114	25,604		188	188	13,038		189		123,201	
Percent		16.95		51.23	20.78		0.15	0.15	10.58		0.15		100.00	
Sample Size		221		668	271		2	2	138		2		1,304	
Mean Length		479		573	480		379	620	568		582		537	
Std. Error		2		1	1				3		15		1	
Sample Size		221		668	271		2	2	138		2		1,304	

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Table 8.—Page 8 of 8.

	Age Group												Total
	0.2	0.3	1.2	2.1	1.3	2.2	3.1	1.4	2.3	3.2	2.4	3.3	
All Periods Combined:													
Males	41	54	77,546	242	143,023	70,050	94	1,479	28,839	13	339	13	321,733
Percent	0.01	0.01	11.76	0.04	21.69	10.63	0.01	0.22	4.37	0.00	0.05	0.00	48.80
Sample Size	1	2	1,012	2	1,563	868	1	13	332	1	4	1	3,800
Mean Length	442	584	484	379	583	483	367	612	572	543	598	598	536
Std. Error			1		1	1		11	2		15		1
Sample Size	1	2	1,012	2	1,563	868	1	13	332	1	4	1	3,800
Females		450	70,348	41	155,258	75,607	94	1,527	33,874		159	197	337,555
Percent		0.07	10.67	0.01	23.55	11.47	0.01	0.23	5.14		0.02	0.03	51.20
Sample Size		6	860	1	1,680	913	1	17	386		3	1	3,868
Mean Length		565	480	376	563	485	390	598	559		583	558	528
Std. Error		12	1		1	1		8	2				0
Sample Size		6	860	1	1,680	913	1	17	386		3	1	3,868
Both Sexes	41	504	147,894	283	298,281	145,657	188	3,006	62,713	13	498	210	659,288
Percent	0.01	0.08	22.43	0.04	45.24	22.09	0.03	0.46	9.51	0.00	0.08	0.03	100.00
Sample Size	1	8	1,872	3	3,243	1,781	2	30	718	1	7	2	7,668
Mean Length	442	567	482	379	573	484	379	605	565	543	593	560	532
Std. Error		12	1		1	1		7	1		15		0
Sample Size	1	8	1,872	3	3,243	1,781	2	30	718	1	7	2	7,668

^a Mean length in mm.

Table 9.—Age, sex, and length composition of sockeye salmon in the Salamatof Beach commercial set gillnet harvest, Upper Cook Inlet, Alaska, 2004.

		Age Group												
		0.2	0.3	1.2	2.1	1.3	2.2	3.1	1.4	2.3	3.2	2.4	3.3	Total
Sample Period 1: 8 July														
70	Males		432		820		302		22		162			1,738
	Percent		11.00		20.87		7.69		0.56		4.12			44.24
	Sample Size		40		76		28		2		15			161
	Mean Length ^a		495		574		496		648		570			542
	Std. Error		6		4		4		10		8			3
	Sample Size		40		76		28		2		15			161
	Females		345		1,425		237		11		173			2,191
	Percent		8.78		36.27		6.03		0.28		4.40			55.76
	Sample Size		32		132		22		1		16			203
	Mean Length		476		564		480		595		554			540
	Std. Error		5		2		6		9		9			2
	Sample Size		32		132		22		1		16			203
	Both Sexes		777		2,245		539		33		335			3,929
	Percent		19.78		57.14		13.72		0.84		8.53			100.00
	Sample Size		72		208		50		3		31			364
Mean Length		487		568		489		630		562			541	
Std. Error		4		2		4		10		6			2	
Sample Size		72		208		50		3		31			364	

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Table 9.-Page 2 of 7.

	Age Group											Total	
	0.2	0.3	1.2	2.1	1.3	2.2	3.1	1.4	2.3	3.2	2.4		3.3
Sample Period 2: 12 July													
Males	30		1,370	30	2,500	1,013		30	596				5,569
Percent	0.22		10.00	0.22	18.25	7.39		0.22	4.35				40.65
Sample Size	1		46	1	84	34		1	20				187
Mean Length	459		496	401	566	489		630	566				534
Std. Error			4		4	4			7				2
Sample Size	1		46	1	84	34		1	20				187
Females		30	1,072		5,479	953			566	30			8,130
Percent		0.22	7.83		40.00	6.96			4.13	0.22			59.35
Sample Size		1	36		184	32			19	1			273
Mean Length		563	486		570	493			570	518			550
Std. Error			4		1	6			5				1
Sample Size		1	36		184	32			19	1			273
Both Sexes	30	30	2,442	30	7,979	1,966		30	1,162	30			13,699
Percent	0.22	0.22	17.83	0.22	58.25	14.35		0.22	8.48	0.22			100.00
Sample Size	1	1	82	1	268	66		1	39	1			460
Mean Length	459	563	492	401	569	491		630	568	518			543
Std. Error			3		2	3			4				1
Sample Size	1	1	82	1	268	66		1	39	1			460

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Table 9.—Page 3 of 7.

	Age Group											Total	
	0.2	0.3	1.2	2.1	1.3	2.2	3.1	1.4	2.3	3.2	2.4		3.3
Sample Period 3: 14 - 19 July													
Males		32,541		103,972	19,842				23,017			794	180,166
Percent		9.05		28.92	5.52				6.40			0.22	50.11
Sample Size		41		131	25				29			1	227
Mean Length		505		581	515				591			517	561
Std. Error		5		3	7				4				2
Sample Size		41		131	25				29			1	227
Females		12,699		129,371	15,080				21,429	794			179,373
Percent		3.53		35.98	4.19				5.96	0.22			49.89
Sample Size		16		163	19				27	1			226
Mean Length		507		574	528				579	559			566
Std. Error		6		2	5				3				1
Sample Size		16		163	19				27	1			226
Both Sexes		45,240		233,343	34,922				44,446	794		794	359,539
Percent		12.58		64.90	9.71				12.36	0.22		0.22	100.00
Sample Size		57		294	44				56	1		1	453
Mean Length		506		577	521				585	559		517	563
Std. Error		4		1	5				2				1
Sample Size		57		294	44				56	1		1	453

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Table 9.—Page 4 of 7.

	Age Group											Total
	0.2	0.3	1.2	2.1	1.3	2.2	3.1	1.4	2.3	3.2	2.4	
Sample Period 4: 21 - 25 July												
Males		11,317		81,109	11,317		1,886	22,635		629		128,893
Percent		4.09		29.32	4.09		0.68	8.18		0.23		46.59
Sample Size		18		129	18		3	36		1		205
Mean Length		483		586	498		619	577		608		568
Std. Error		8		2	6		5	5				2
Sample Size		18		129	18		3	36		1		205
Females		16,347		94,942	14,461		1,257	20,120		629		147,756
Percent		5.91		34.32	5.23		0.45	7.27		0.23		53.41
Sample Size		26		151	23		2	32		1		235
Mean Length		483		564	501		615	569		546		550
Std. Error		5		2	6		11	3				1
Sample Size		26		151	23		2	32		1		235
Both Sexes		27,664		176,051	25,778		3,143	42,755		1,258		276,649
Percent		10.00		63.64	9.32		1.14	15.45		0.45		100.00
Sample Size		44		280	41		5	68		2		440
Mean Length		483		574	500		617	573		577		558
Std. Error		4		1	4		5	3				1
Sample Size		44		280	41		5	68		2		440

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Table 9.—Page 5 of 7.

		Age Group											Total	
		0.2	0.3	1.2	2.1	1.3	2.2	3.1	1.4	2.3	3.2	2.4	3.3	Total
Sample Period 5: 26 - 31 July														
74	Males		5,459		47,123	4,310		287	7,758		287			65,224
	Percent		4.04		34.89	3.19		0.21	5.74		0.21			48.30
	Sample Size		19		164	15		1	27		1			227
	Mean Length		499		596	502		641	591		640			582
	Std. Error		5		2	6			4					1
	Sample Size		19		164	15		1	27		1			227
	Females		6,896		44,537	10,057	287		8,045					69,822
	Percent		5.11		32.98	7.45	0.21		5.96					51.70
	Sample Size		24		155	35	1		28					243
	Mean Length		487		570	502	400		561					550
	Std. Error		4		2	4			6					1
	Sample Size		24		155	35	1		28					243
Both Sexes		12,355		91,660	14,367	287	287	15,803		287			135,046	
Percent		9.15		67.87	10.64	0.21	0.21	11.70		0.21			100.00	
Sample Size		43		319	50	1	1	55		1			470	
Mean Length		492		583	502	400	641	576		640			565	
Std. Error		3		1	3			4					1	
Sample Size		43		319	50	1	1	55		1			470	

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		Age Group													
		0.2	0.3	1.2	2.1	1.3	2.2	3.1	1.4	2.3	3.2	2.4	3.3	Total	
Sample Period 6: 1 - 7 August															
75	Males		4,398		61,238	3,722		2,030	8,120					79,508	
	Percent		3.07		42.69	2.59		1.42	5.66					55.42	
	Sample Size		13		181	11		6	24					235	
	Mean Length		502		598	510		622	603					590	
	Std. Error		13		2	11		7	4					2	
	Sample Size		13		181	11		6	24					235	
	Females		677	4,060		49,058	2,368		338	7,443					63,944
	Percent		0.47	2.83		34.20	1.65		0.24	5.19					44.58
	Sample Size		2	12		145	7		1	22					189
	Mean Length		567	490		568	507		600	574					562
	Std. Error		4	8		2	9			5					2
	Sample Size		2	12		145	7		1	22					189
Both Sexes		677	8,458		110,296	6,090		2,368	15,563					143,452	
Percent		0.47	5.90		76.89	4.25		1.65	10.85					100.00	
Sample Size		2	25		326	18		7	46					424	
Mean Length		567	496		585	509		618	589					577	
Std. Error		4	8		1	7		7	3					1	
Sample Size		2	25		326	18		7	46					424	

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	Age Group											Total	
	0.2	0.3	1.2	2.1	1.3	2.2	3.1	1.4	2.3	3.2	2.4		3.3
All Periods Combined:													
Males	30		55,517	30	296,762	40,506		4,255	62,288		916	794	461,098
Percent	0.00		5.95	0.00	31.83	4.34		0.46	6.68		0.10	0.09	49.46
Sample Size	1		177	1	765	131		13	151		2	1	1,242
Mean Length	459		499	401	588	508		622	587		618	517	570
Std. Error			3		1	4		5	2				1
Sample Size	1		177	1	765	131		13	151		2	1	1,242
Females		707	41,419		324,812	43,156	287	1,606	57,776	824	629		471,216
Percent		0.08	4.44		34.84	4.63	0.03	0.17	6.20	0.09	0.07		50.54
Sample Size		3	146		930	138	1	4	144	2	1		1,369
Mean Length		566	492		569	511	400	611	572	558	546		557
Std. Error		4	3		1	3		11	2				1
Sample Size		3	146		930	138	1	4	144	2	1		1,369
Both Sexes	30	707	96,936	30	621,574	83,662	287	5,861	120,064	824	1,545	794	932,314
Percent	0.00	0.08	10.40	0.00	66.67	8.97	0.03	0.63	12.88	0.09	0.17	0.09	100.00
Sample Size	1	3	323	1	1,695	269	1	17	295	2	3	1	2,611
Mean Length	459	566	496	401	578	509	400	619	580	558	589	517	564
Std. Error		4	2		1	3		4	2				1
Sample Size	1	3	323	1	1,695	269	1	17	295	2	3	1	2,611

^a Mean length in mm.

Table 10.—Age, sex, and length composition of sockeye salmon in the Eastern Subdistrict commercial set gillnet harvest, Upper Cook Inlet, Alaska, 2004.

	Age Group									Total
	0.2	1.1	0.3	1.2	1.3	2.2	2.3	3.2	3.3	
Sample period:	31 May - 13 September									
Males		29	29	2,032	2,416	1,737	766	29		7,038
Percent		0.22	0.22	15.65	18.60	13.37	5.90	0.22		54.19
Sample Size		1	1	69	82	59	26	1		239
Mean Length ^a		354	602	479	571	484	569	465		521
Std. Error				4	4	3	5			2
Sample Size		1	1	69	82	59	26	1		239
Females	29		59	1,502	2,710	1,237	383		29	5,949
Percent	0.22		0.45	11.57	20.87	9.52	2.95		0.22	45.81
Sample Size	1		2	51	92	42	13		1	202
Mean Length	487		561	480	558	491	551		507	523
Std. Error			6	3	3	4	9			2
Sample Size	1		2	51	92	42	13		1	202
Both Sexes	29	29	88	3,534	5,126	2,974	1,149	29	29	12,987
Percent	0.22	0.22	0.68	27.21	39.47	22.90	8.85	0.22	0.22	100.00
Sample Size	1	1	3	120	174	101	39	1	1	441
Mean Length	487	354	574	479	564	487	563	465	507	522
Std. Error			6	3	2	3	5			1
Sample Size	1	1	3	120	174	101	39	1	1	441

^a Mean length in mm.

Table 11.—Age, sex, and length composition of sockeye salmon in the General Subdistrict commercial set gillnet harvest, Upper Cook Inlet, Alaska, 2004.

	Age Group								Total
	0.2	0.3	1.2	1.3	2.2	1.4	2.3	2.4	
Sample period:	31 May - 23 August								
Males		45	588	5,022	272	91	1,086		7,104
Percent		0.31	4.11	35.12	1.90	0.64	7.59		49.68
Sample Size		1	13	111	6	2	24		157
Mean Length ^a		600	530	588	522	615	594		582
Std. Error			6	3	13	8	5		2
Sample Size		1	13	111	6	2	24		157
Females	45	91	1,131	4,526	226	45	1,086	45	7,195
Percent	0.31	0.64	7.91	31.65	1.58	0.31	7.59	0.31	50.32
Sample Size	1	2	25	100	5	1	24	1	159
Mean Length	561	552	506	572	511	566	574	543	559
Std. Error		6	6	2	5		6		2
Sample Size	1	2	25	100	5	1	24	1	159
Both Sexes	45	136	1,719	9,548	498	136	2,172	45	14,299
Percent	0.31	0.95	12.02	66.77	3.48	0.95	15.19	0.31	100.00
Sample Size	1	3	38	211	11	3	48	1	316
Mean Length	561	568	514	580	517	598	584	543	570
Std. Error		6	5	2	7	8	4		1
Sample Size	1	3	38	211	11	3	48	1	316

^a Mean length in mm.

Table 12.—Age, sex, and length composition of sockeye salmon in the Western Subdistrict commercial set gillnet harvest, Upper Cook Inlet, Alaska, 2004.

	Age Group					Total
	1.2	1.3	2.2	1.4	2.3	
Sample Period 1:	9 June - 14 July					
Males	3,767	8,046	2,226	171	4,880	19,090
Percent	9.63	20.57	5.69	0.44	12.47	48.80
Sample Size	44	94	26	2	57	223
Mean Length ^a	484	571	502	600	575	547
Std. Error	4	3	5	15	3	2
Sample Size	44	94	26	2	57	223
Females	2,055	11,471	1,455		5,051	20,032
Percent	5.25	29.32	3.72		12.91	51.20
Sample Size	24	134	17		59	234
Mean Length	481	551	493		559	541
Std. Error	4	2	5		3	1
Sample Size	24	134	17		59	234
Both Sexes	5,822	19,517	3,681	171	9,931	39,122
Percent	14.88	49.89	9.41	0.44	25.38	100.00
Sample Size	68	228	43	2	116	457
Mean Length	483	559	499	600	567	544
Std. Error	3	2	4	15	2	1
Sample Size	68	228	43	2	116	457

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Table 12.—Page 2 of 3.

	Age Group						Total
	1.2	1.3	2.2	1.4	2.3	3.2	
Sample Period 2:	15 July - 26 August						
Males	1,874	3,123	4,581		4,026	208	13,812
Percent	6.38	10.64	15.60		13.71	0.71	47.05
Sample Size	27	45	66		58	3	199
Mean Length	504	571	510		574	515	542
Std. Error	5	4	2		4	12	2
Sample Size	27	45	66		58	3	199
Females	2,082	3,609	7,080	69	2,707		15,547
Percent	7.09	12.29	24.12	0.24	9.22		52.95
Sample Size	30	52	102	1	39		224
Mean Length	496	555	490	575	552		517
Std. Error	3	3	2		3		1
Sample Size	30	52	102	1	39		224
Both Sexes	3,956	6,732	11,661	69	6,733	208	29,359
Percent	13.47	22.93	39.72	0.24	22.93	0.71	100.00
Sample Size	57	97	168	1	97	3	423
Mean Length	500	563	498	575	565	515	529
Std. Error	3	2	2		3	12	1
Sample Size	57	97	168	1	97	3	423

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Table 12.—Page 3 of 3.

	Age Group						Total
	1.2	1.3	2.2	1.4	2.3	3.2	
All Periods Combined:							
Males	5,641	11,169	6,807	171	8,906	208	32,902
Percent	8.24	16.31	9.94	0.25	13.01	0.30	48.05
Sample Size	71	139	92	2	115	3	422
Mean Length	490	571	507	600	575	515	545
Std. Error	3	2	2	15	2	12	1
Sample Size	71	139	92	2	115	3	422
Females	4,137	15,080	8,535	69	7,758		35,579
Percent	6.04	22.02	12.46	0.10	11.33		51.95
Sample Size	54	186	119	1	98		458
Mean Length	488	552	491	575	557		531
Std. Error	3	2	2		2		1
Sample Size	54	186	119	1	98		458
Both Sexes	9,778	26,249	15,342	240	16,664	208	68,481
Percent	14.28	38.33	22.40	0.35	24.33	0.30	100.00
Sample Size	125	325	211	3	213	3	880
Mean Length	489	560	498	592	566	515	537
Std. Error	2	1	1	15	2	12	1
Sample Size	125	325	211	3	213	3	880

^a Mean length in mm.

Table 13.—Age, sex, and length composition of sockeye salmon escapement in Kenai River, Upper Cook Inlet, Alaska, 2004 (weighted).

	Age Group										Total
	0.3	1.2	2.1	1.3	2.2	1.4	2.3	3.2	2.4	3.3	
Sample period:	1 July - 18 August										
Males	4,348	69,571	1,087	430,470	36,959	3,261	77,180	3,261	1,087	1,087	628,311
Percent	0.31	5.02	0.08	31.06	2.67	0.24	5.57	0.24	0.08	0.08	45.33
Sample Size	4	64	1	396	34	3	71	3	1	1	578
Mean Length ^a	576	497	378	585	513	618	596	506	640	522	572
Std. Error	4	6		2	6	14	3	24			1
Sample Size	4	64	1	396	34	3	71	3	1	1	578
Females	1,087	70,658	1,087	527,217	77,180		77,180		1,087	2,174	757,670
Percent	0.08	5.10	0.08	38.04	5.57		5.57		0.08	0.16	54.67
Sample Size	1	65	1	485	71		71		1	2	697
Mean Length	522	482	406	569	512		566		576	564	555
Std. Error		4		1	4		3			20	1
Sample Size	1	65	1	485	71		71		1	2	697
Both Sexes	5,435	140,229	2,174	957,687	114,139	3,261	154,360	3,261	2,174	3,261	1,385,981
Percent	0.39	10.12	0.16	69.10	8.24	0.24	11.14	0.24	0.16	0.24	100.00
Sample Size	5	129	2	881	105	3	142	3	2	3	1,275
Mean Length	565	489	392	576	512	618	581	506	608	550	562
Std. Error	4	4		1	3	14	2	24		20	1
Sample Size	5	129	2	881	105	3	142	3	2	3	1,275

^a Mean length in mm.

Table 14.—Age, sex, and length composition of sockeye salmon escapement in Kenai River, Upper Cook Inlet, Alaska, 2004 (three periods).

	Age Group										Total
	0.3	1.2	2.1	1.3	2.2	1.4	2.3	3.2	2.4	3.3	
Sample Period 1:	1 - 20 July										
Males	780	29,649		133,425	14,044	780	20,286	780	780		200,524
Percent	0.16	5.91		26.59	2.80	0.16	4.04	0.16	0.16		39.97
Sample Size	1	38		171	18	1	26	1	1		257
Mean Length ^a	571	515		585	521	646	598	539	624		572
Std. Error		5		2	7		3				2
Sample Size	1	38		171	18	1	26	1	1		257
Females		30,430	780	210,668	29,649		28,089		780	780	301,176
Percent		6.07	0.16	41.99	5.91		5.60		0.16	0.16	60.03
Sample Size		39	1	270	38		36		1	1	386
Mean Length		489	385	577	522		577		576	544	562
Std. Error		6		1	4		4				1
Sample Size		39	1	270	38		36		1	1	386
Both Sexes	780	60,079	780	344,093	43,693	780	48,375	780	1,560	780	501,700
Percent	0.16	11.98	0.16	68.59	8.71	0.16	9.64	0.16	0.31	0.16	100.00
Sample Size	1	77	1	441	56	1	62	1	2	1	643
Mean Length	571	502	385	580	522	646	586	539	600	544	566
Std. Error		4		1	4		3				1
Sample Size	1	77	1	441	56	1	62	1	2	1	643

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		Age Group										
		0.3	1.2	2.1	1.3	2.2	1.4	2.3	3.2	2.4	3.3	Total
Sample Period 2: 21 - 30 July												
Males	763	22,885	763	128,158	13,731	2,289	24,411					193,000
Percent	0.19	5.70	0.19	31.94	3.42	0.57	6.08					48.10
Sample Size	1	30	1	168	18	3	32					253
Mean Length	587	480	378	584	514	618	587					566
Std. Error		11		3	9	11	5					2
Sample Size	1	30	1	168	18	3	32					253
Females	763	19,834	1,526	144,176	19,071	1,526	20,597			763		208,256
Percent	0.19	4.94	0.38	35.93	4.75	0.38	5.13			0.19		51.90
Sample Size	1	26	2	189	25	2	27			1		273
Mean Length	568	475	402	570	505	605	565			584		554
Std. Error		7	16	2	8	17	4					2
Sample Size	1	26	2	189	25	2	27			1		273
Both Sexes	1,526	42,719	2,289	272,334	32,802	3,815	45,008			763		401,256
Percent	0.38	10.65	0.57	67.87	8.17	0.95	11.22			0.19		100.00
Sample Size	2	56	3	357	43	5	59			1		526
Mean Length	578	477	394	576	509	613	577			584		560
Std. Error		7	16	2	6	9	3					1
Sample Size	2	56	3	357	43	5	59			1		526

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	Age Group										Total
	0.3	1.2	2.1	1.3	2.2	1.4	2.3	3.2	2.4	3.3	
Sample Period 3: 31 July - 18 August											
Males	2,176	27,197		167,535	7,615	1,088	34,813	2,176	1,088	1,088	244,776
Percent	0.45	5.63		34.68	1.58	0.23	7.21	0.45	0.23	0.23	50.68
Sample Size	2	25		154	7	1	32	2	1	1	225
Mean Length	573	498		587	508	608	597	489	640	522	575
Std. Error	3	7		2	14		4	29			2
Sample Size	2	25		154	7	1	32	2	1	1	225
Females	1,088	23,934	1,088	153,393	28,285		30,461				238,249
Percent	0.23	4.96	0.23	31.76	5.86		6.31				49.32
Sample Size	1	22	1	141	26		28				219
Mean Length	522	488	406	558	504		556				543
Std. Error		6		2	8		4				2
Sample Size	1	22	1	141	26		28				219
Both Sexes	3,264	51,131	1,088	320,928	35,900	1,088	65,274	2,176	1,088	1,088	483,025
Percent	0.68	10.59	0.23	66.44	7.43	0.23	13.51	0.45	0.23	0.23	100.00
Sample Size	3	47	1	295	33	1	60	2	1	1	444
Mean Length	556	493	406	573	505	608	578	489	640	522	560
Std. Error	3	5		2	7		3	29			1
Sample Size	3	47	1	295	33	1	60	2	1	1	444

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Table 14.—Page 4 of 4.

	Age Group										Total
	0.3	1.2	2.1	1.3	2.2	1.4	2.3	3.2	2.4	3.3	
All Periods Combined:											
Males	3,719	79,731	763	429,118	35,390	4,157	79,510	2,956	1,868	1,088	638,300
Percent	0.27	5.75	0.06	30.96	2.55	0.30	5.74	0.21	0.13	0.08	46.05
Sample Size	4	93	1	493	43	5	90	3	2	1	735
Mean Length	575	499	378	586	516	621	594	502	633	522	572
Std. Error	3	4		1	5	11	2	29			1
Sample Size	4	93	1	493	43	5	90	3	2	1	735
Females	1,851	74,198	3,394	508,237	77,005	1,526	79,147		780	1,543	747,681
Percent	0.13	5.35	0.24	36.67	5.56	0.11	5.71		0.06	0.11	53.95
Sample Size	2	87	4	600	89	2	91		1	2	878
Mean Length	541	485	399	569	511	605	566		576	564	554
Std. Error		4	16	1	4	17	2				1
Sample Size	2	87	4	600	89	2	91		1	2	878
Both Sexes	5,570	153,929	4,157	937,355	112,395	5,683	158,657	2,956	2,648	2,631	1,385,981
Percent	0.40	11.11	0.30	67.63	8.11	0.41	11.45	0.21	0.19	0.19	100.00
Sample Size	6	180	5	1,093	132	7	181	3	3	3	1,613
Mean Length	564	492	395	577	513	616	580	502	616	547	562
Std. Error	3	3	16	1	3	9	2	29			1
Sample Size	6	180	5	1,093	132	7	181	3	3	3	1,613

^a Mean length in mm.

Table 15.—Age, sex, and length composition of sockeye salmon in Hidden Creek, Kenai River drainage, Upper Cook Inlet, Alaska, 2004.

Age Group	1.2	1.3	2.2	2.3	Total
Sample period:	12 July - 30 August				
Males	5,998	2,688	1,344	310	10,340
Percent	31.36	14.05	7.03	1.62	54.05
Sample Size	58	26	13	3	100
Mean Length ^a	531	577	545	590	546
Std. Error	3	3	5	6	2
Sample Size	58	26	13	3	100
Females	6,721	931	1,034	103	8,789
Percent	35.14	4.87	5.41	0.54	45.95
Sample Size	65	9	10	1	85
Mean Length	513	543	532	528	519
Std. Error	3	5	8		2
Sample Size	65	9	10	1	85
Both Sexes	12,719	3,619	2,378	413	19,129 ^b
Percent	66.49	18.92	12.43	2.16	100.00
Sample Size	123	35	23	4	185
Mean Length	521	568	540	575	534
Std. Error	2	3	4	6	1
Sample Size	123	35	23	4	185

^a Mean length in mm.

^b Hidden Creek sockeye return was 19,129, with 957 fish taken for otolith samples, resulting in 18,172 escaping into Hidden Lake. CIAA used 4,223 for hatchery broodstock, resulting in a lake broodstock total of 13,949.

Table 16.—Age, sex, and length composition of late-run sockeye salmon escapement in Russian River, Kenai River drainage, Upper Cook Inlet, Alaska, 2004.

	Age Group								Total
	1.2	2.1	1.3	2.2	3.1	2.3	3.2	2.4	
Sample period:	15 July - 3 September								
Males	461	5,074	1,384	23,525	923	18,912	461	461	51,201
Percent	0.42	4.60	1.26	21.34	0.84	17.15	0.42	0.42	46.44
Sample Size	1	11	3	51	2	41	1	1	111
Mean Length	460	398	595	507	403	594	515	580	529
Std. Error		5	15	3	8	10			4
Sample Size	1	11	3	51	2	41	1	1	111
Females	461		1,384	43,821		12,916	461		59,043
Percent	0.42		1.26	39.75		11.72	0.42		53.56
Sample Size	1		3	95		28	1		128
Mean Length	505		568	513		565	480		526
Std. Error			27	2		5			2
Sample Size	1		3	95		28	1		128
Both Sexes	922	5,074	2,768	67,346	923	31,828	922	461	110,244
Percent	0.84	4.60	2.51	61.09	0.84	28.87	0.84	0.42	100.00
Sample Size	2	11	6	146	2	69	2	1	239
Mean Length	483	398	582	511	403	582	498	580	527
Std. Error		5	16	2	8	6			2
Sample Size	2	11	6	146	2	69	2	1	239

^a Mean length in mm.

Table 17.—Age, sex, and length composition of sockeye salmon escapement in Kasilof River, Upper Cook Inlet, Alaska, 2004 (weighted).

		Age Group							
		1.1	1.2	2.1	1.3	2.2	1.4	2.3	Total
Sample period:		15 June - 16 August							
Males		115,135		1,272	52,160	80,149		15,903	264,619
Percent		19.93		0.22	9.03	13.88		2.75	45.82
Sample Size		181		2	82	126		25	416
Mean Length ^a		482		374	549	482		536	498
Std. Error		2		3	3	2		6	1
Sample Size		181		2	82	126		25	416
Females	636	137,399			57,249	108,137	636	8,905	312,962
Percent	0.11	23.79			9.91	18.72	0.11	1.54	54.18
Sample Size	1	216			90	170	1	14	492
Mean Length	420	475			539	475	545	523	488
Std. Error		2			3	2		9	1
Sample Size	1	216			90	170	1	14	492
Both Sexes	636	252,534		1,272	109,409	188,286	636	24,808	577,581
Percent	0.11	43.72		0.22	18.94	32.60	0.11	4.30	100.00
Sample Size	1	397		2	172	296	1	39	908
Mean Length	420	478		374	544	478	545	531	493
Std. Error		1		3	2	1		5	1
Sample Size	1	397		2	172	296	1	39	908

^a Mean length in mm.

Table 18.—Age, sex, and length composition of sockeye salmon escapement in Kasilof River, Upper Cook Inlet, Alaska, 2004 (three periods).

		Age Group								
		0.2	1.1	1.2	2.1	1.3	2.2	1.4	2.3	Total
Sample Period 1: 15 June - 10 July										
06	Males			33,550		24,669	14,143		7,236	79,598
	Percent			19.07		14.02	8.04		4.11	45.23
	Sample Size			102		75	43		22	242
	Mean Length ^a			491		554	492		542	515
	Std. Error			3		2	4		6	2
	Sample Size			102		75	43		22	242
	Females			40,457		25,327	26,642	329	3,618	96,373
	Percent			22.99		14.39	15.14	0.19	2.06	54.77
	Sample Size			123		77	81	1	11	293
	Mean Length			484		548	482	545	549	503
	Std. Error			2		3	2		9	1
	Sample Size			123		77	81	1	11	293
Both Sexes			74,007		49,996	40,785	329	10,854	175,971	
Percent			42.06		28.41	23.18	0.19	6.17	100.00	
Sample Size			225		152	124	1	33	535	
Mean Length			487		551	485	545	544	508	
Std. Error			2		2	2		5	1	
Sample Size			225		152	124	1	33	535	

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		Age Group								
		0.2	1.1	1.2	2.1	1.3	2.2	1.4	2.3	Total
Sample Period 2: 11 - 20 July										
91	Males		323	46,220	323	12,928	31,351		5,495	96,640
	Percent		0.15	21.12	0.15	5.91	14.33		2.51	44.17
	Sample Size		1	143	1	40	97		17	299
	Mean Length		347	478	371	532	477		536	488
	Std. Error			2		5	2		6	1
	Sample Size		1	143	1	40	97		17	299
	Females			61,087		14,545	42,017		4,525	122,174
	Percent			27.92		6.65	19.20		2.07	55.83
	Sample Size			189		45	130		14	378
	Mean Length			476		532	477		521	484
	Std. Error			1		4	2		8	1
	Sample Size			189		45	130		14	378
	Both Sexes		323	107,307	323	27,473	73,368		10,020	218,814
Percent		0.15	49.04	0.15	12.56	33.53		4.58	100.00	
Sample Size		1	332	1	85	227		31	677	
Mean Length		347	477	371	532	477		529	486	
Std. Error			1		3	1		5	1	
Sample Size		1	332	1	85	227		31	677	

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		Age Group								
		0.2	1.1	1.2	2.1	1.3	2.2	1.4	2.3	Total
Sample Period 3: 21 July - 15 August										
Males	402			26,515	803	2,009	30,131		2,009	61,869
Percent	0.22			14.51	0.44	1.10	16.48		1.10	33.85
Sample Size	1			66	2	5	75		5	154
Mean Length	418			462	372	543	466		529	467
Std. Error				3	4	11	3		7	2
Sample Size	1			66	2	5	75		5	154
Females		803		52,227		2,812	64,282		803	120,927
Percent		0.44		28.57		1.54	35.17		0.44	66.15
Sample Size		2		130		7	160		2	301
Mean Length		364		459		509	464		515	462
Std. Error		56		2		11	1		4	1
Sample Size		2		130		7	160		2	301
Both Sexes	402	803		78,742	803	4,821	94,413		2,812	182,796
Percent	0.22	0.44		43.08	0.44	2.64	51.65		1.54	100.00
Sample Size	1	2		196	2	12	235		7	455
Mean Length	418	364		460	372	523	465		525	464
Std. Error		56		2	4	8	1		5	1
Sample Size	1	2		196	2	12	235		7	455

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	Age Group								Total
	0.2	1.1	1.2	2.1	1.3	2.2	1.4	2.3	
All Periods Combined:									
Males	402	323	106,285	1,126	39,606	75,625		14,740	238,107
Percent	0.07	0.06	18.40	0.19	6.86	13.09		2.55	41.22
Sample Size	1	1	311	3	120	215		44	695
Mean Length	418	347	478	371	546	476		538	492
Std. Error			1	4	2	2		4	1
Sample Size	1	1	311	3	120	215		44	695
Females		803	153,771		42,684	132,941	329	8,946	339,474
Percent		0.14	26.62		7.39	23.02	0.06	1.55	58.78
Sample Size		2	442		129	371	1	27	972
Mean Length		364	472		540	472	545	532	482
Std. Error		56	1		2	1		5	1
Sample Size		2	442		129	371	1	27	972
Both Sexes	402	1,126	260,056	1,126	82,290	208,566	329	23,686	577,581
Percent	0.07	0.19	45.03	0.19	14.25	36.11	0.06	4.10	100.00
Sample Size	1	3	753	3	249	586	1	71	1,667
Mean Length	418	359	474	371	543	473	545	536	486
Std. Error		56	1	4	2	1		3	1
Sample Size	1	3	753	3	249	586	1	71	1,667

^a Mean length in mm.

Table 19.—Age, sex, and length composition of sockeye salmon escapement in Crescent River, Upper Cook Inlet, Alaska, 2004.

		Age Group							
		1.2	1.3	2.2	1.4	2.3	2.4	3.3	Total
Sample period:		24 June - 5 August							
Males	10,130	15,195	9,919	211	17,728				53,183
Percent	9.82	14.72	9.61	0.20	17.18				51.53
Sample Size	48	72	47	1	84				252
Mean Length ^a	460	565	480	552	569				531
Std. Error	5	3	7		2				2
Sample Size	48	72	47	1	84				252
Females	4,432	17,095	6,542		21,527	211	211		50,018
Percent	4.29	16.56	6.34		20.86	0.20	0.20		48.47
Sample Size	21	81	31		102	1	1		237
Mean Length	484	544	482		545	544	545		531
Std. Error	8	2	5		2				1
Sample Size	21	81	31		102	1	1		237
Both Sexes	14,562	32,290	16,461	211	39,255	211	211		103,201
Percent	14.11	31.29	15.95	0.20	38.04	0.20	0.20		100.00
Sample Size	69	153	78	1	186	1	1		489
Mean Length	467	554	481	552	556	544	545		531
Std. Error	4	2	4		1				1
Sample Size	69	153	78	1	186	1	1		489

^a Mean length in mm.

Table 20.—Age, sex, and length composition of sockeye salmon escapement in Yentna River, (RM 4.0), Susitna River drainage, Upper Cook Inlet, Alaska, 2004.

	Age Group								Total
	0.2	1.1	0.3	1.2	1.3	2.2	1.4	2.3	
Sample period:	7 July - 12 August								
Males	310	465	465	8,213	14,411	3,719	465	6,353	34,401
Percent	0.43	0.65	0.65	11.52	20.22	5.22	0.65	8.91	48.26
Sample Size	2	3	3	53	93	24	3	41	222
Mean Length ^a	415	352	587	466	574	474	600	579	535
Std. Error	6	25	4	4	3	8	20	4	2
Sample Size	2	3	3	53	93	24	3	41	222
Females	155		310	3,874	21,229	2,169		9,143	36,880
Percent	0.22		0.43	5.43	29.78	3.04		12.83	51.74
Sample Size	1		2	25	137	14		59	238
Mean Length	495		539	490	553	486		551	542
Std. Error			11	4	2	7		3	2
Sample Size	1		2	25	137	14		59	238
Both Sexes	465	465	775	12,087	35,640	5,888	465	15,496	71,281
Percent	0.65	0.65	1.09	16.96	50.00	8.26	0.65	21.74	100.00
Sample Size	3	3	5	78	230	38	3	100	460
Mean Length	441	352	568	474	562	478	600	562	538
Std. Error	6	25	5	3	2	6	20	2	1
Sample Size	3	3	5	78	230	38	3	100	460

^a Mean length in mm.

Table 21.—Age, sex, and length composition of sockeye salmon escapement in Fish Creek, Northern District, Upper Cook Inlet, Alaska, 2004.

	Age Group							Total	
	0.2	1.1	1.2	2.1	1.3	2.2	1.4		2.3
Sample period:	6 July - 15 August								
Males		600	4,029	129	4,671	257		857	10,543
Percent		2.71	18.18	0.58	21.08	1.16		3.87	47.58
Sample Size		14	94	3	109	6		20	246
Mean Length ^a		364	457	360	547	469		547	498
Std. Error		6	3	16	2	15		4	2
Sample Size		14	94	3	109	6		20	246
Females	214		5,229		4,543	300	171	1,157	11,614
Percent	0.97		23.60		20.50	1.35	0.77	5.22	52.42
Sample Size	5		122		106	7	4	27	271
Mean Length	482		484		529	496	516	532	507
Std. Error	8		2		2	9	12	4	1
Sample Size	5		122		106	7	4	27	271
Both Sexes	214	600	9,258	129	9,214	557	171	2,014	22,157
Percent	0.97	2.71	41.78	0.58	41.59	2.51	0.77	9.09	100.00
Sample Size	5	14	216	3	215	13	4	47	517
Mean Length	482	364	472	360	538	484	516	538	503
Std. Error	8	6	2	16	2	8	12	3	1
Sample Size	5	14	216	3	215	13	4	47	517

^a Mean length in mm.

Table 22.—Age, sex, and length composition of sockeye salmon escapement from all stations in the Offshore Test fishery, Upper Cook Inlet, Alaska, 2004.

	Age Group								Total
	0.2	0.3	1.2	1.3	2.2	1.4	2.3	2.4	
All stations									
Sample period:	1 - 30 July								
Males	2	9	175	978	115	13	169	6	1,467
Percent	0.07	0.32	6.19	34.61	4.07	0.46	5.98	0.21	51.91
Sample Size	1	4	82	458	54	6	79	3	687
Mean Length ^a	465	561	501	579	498	608	574	598	563
Std. Error		17	3	1	4	7	4	24	1
Sample Size	1	4	82	458	54	6	79	3	687
Females		2	51	1,079	58	15	152	2	1,359
Percent		0.07	1.80	38.18	2.05	0.53	5.38	0.07	48.09
Sample Size		1	24	505	27	7	71	1	636
Mean Length		555	497	565	508	587	557	555	560
Std. Error			5	1	5	7	3		1
Sample Size		1	24	505	27	7	71	1	636
Both Sexes	2	11	226	2,057	173	28	321	8	2,826
Percent	0.07	0.39	8.00	72.79	6.12	0.99	11.36	0.28	100.00
Sample Size	1	5	106	963	81	13	150	4	1,323
Mean Length	465	560	500	572	501	597	566	587	561
Std. Error		17	3	1	3	5	2	24	1
Sample Size	1	5	106	963	81	13	150	4	1,323

^a Mean length in mm.

Table 23.—Age, sex, and length composition of Chinook salmon in the Upper Subdistrict commercial set gillnet harvest, Upper Cook Inlet, Alaska, 2004.

	Age Group						Total	
	1.1	1.2	2.1	1.3	1.4	2.3		1.5
Sample Period 1: 25 June - 9 July								
Males	418	752	15	558	418		39	2,200
Percent	11.06	19.89	0.40	14.76	11.06		1.03	58.20
Sample Size	54	97	2	72	54		5	284
Mean Length ^a	413	606	438	820	1,027		1,137	712
Std. Error	4	8	4	11	9		12	4
Sample Size	54	97	2	72	54		5	284
Females	23	604		550	380	8	15	1,580
Percent	0.61	15.98		14.55	10.05	0.21	0.40	41.80
Sample Size	3	78		71	49	1	2	204
Mean Length	442	640		824	974	743	1,065	786
Std. Error	22	7		10	9			5
Sample Size	3	78		71	49	1	2	204
Both Sexes	441	1,356	15	1,108	798	8	54	3,780
Percent	11.67	35.87	0.40	29.31	21.11	0.21	1.43	100.00
Sample Size	57	175	2	143	103	1	7	488
Mean Length	415	621	438	822	1,002	743	1,117	743
Std. Error	4	5	4	8	6		12	3
Sample Size	57	175	2	143	103	1	7	488

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		Age Group							
		1.1	1.2	2.1	1.3	1.4	2.3	1.5	Total
Sample Period 2: 10 - 19 July									
69	Males	301	1,264		1,429	873		45	3,912
	Percent	4.48	18.80		21.25	12.98		0.67	58.17
	Sample Size	20	84		95	58		3	260
	Mean Length	444	647		841	1,028		1,068	792
	Std. Error	7	9		11	9		25	5
	Sample Size	20	84		95	58		3	260
	Females		451		1,459	903			2,813
	Percent		6.71		21.70	13.43			41.83
	Sample Size		30		97	60			187
	Mean Length		698		872	995			883
	Std. Error		15		7	9			5
	Sample Size		30		97	60			187
	Both Sexes	301	1,715		2,888	1,776		45	6,725
	Percent	4.48	25.50		42.94	26.41		0.67	100.00
Sample Size	20	114		192	118		3	447	
Mean Length	444	660		856	1,011		1,068	830	
Std. Error	7	8		7	6		25	4	
Sample Size	20	114		192	118		3	447	

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		Age Group						Total	
		1.1	1.2	2.1	1.3	1.4	2.3		1.5
Sample Period 3: 20 July - 7 August									
Males	24	1,082		3,246		1,647		47	6,046
Percent	0.22	9.70		29.11		14.77		0.42	54.22
Sample Size	1	46		138		70		2	257
Mean Length	475	646		865		1,037		1,090	873
Std. Error		10		7		8		33	5
Sample Size	1	46		138		70		2	257
Females		141		3,200		1,764			5,105
Percent		1.26		28.70		15.82			45.78
Sample Size		6		136		75			217
Mean Length		684		890		987			918
Std. Error		20		6		6			4
Sample Size		6		136		75			217
Both Sexes	24	1,223		6,446		3,411		47	11,151
Percent	0.22	10.97		57.81		30.59		0.42	100.00
Sample Size	1	52		274		145		2	474
Mean Length	475	651		878		1,011		1,090	894
Std. Error		9		5		5		33	3
Sample Size	1	52		274		145		2	474

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	Age Group							Total
	1.1	1.2	2.1	1.3	1.4	2.3	1.5	
All Periods Combined:								
Males	743	3,098	15	5,233	2,938		131	12,158
Percent	3.43	14.31	0.07	24.16	13.57		0.60	56.14
Sample Size	75	227	2	305	182		10	801
Mean Length	428	637	438	854	1,033		1,097	818
Std. Error	4	6	4	6	5		15	3
Sample Size	75	227	2	305	182		10	801
Females	23	1,196		5,209	3,047	8	15	9,498
Percent	0.11	5.52		24.05	14.07	0.04	0.07	43.86
Sample Size	3	114		304	184	1	2	608
Mean Length	442	667		878	988	743	1,065	886
Std. Error	22	7		4	4			3
Sample Size	3	114		304	184	1	2	608
Both Sexes	766	4,294	15	10,442	5,985	8	146	21,656
Percent	3.54	19.83	0.07	48.22	27.64	0.04	0.67	100.00
Sample Size	78	341	2	609	366	1	12	1,409
Mean Length	428	645	438	866	1,010	743	1,093	848
Std. Error	4	4	4	4	3		15	2
Sample Size	78	341	2	609	366	1	12	1,409

^a Mean length in mm.

Table 24.—Age, length, and percent female composition of coho salmon in selected commercial gillnet harvests, Upper Cook Inlet, Alaska, 2004.

Location	Age Group			Total
	1.1	2.1	3.1	
COMMERCIAL HARVEST				
Central District				
Central Drift				
Number	23,033	152,410	23,034	198,477
Percent	11.60	76.79	11.61	100.00
Sample Size	47	311	47	405
Mean Length ^a	543	573	598	572
% Female	40	54	49	52
Upper Subdistrict				
Number	2,486	22,855	4,796	30,137
Percent	8.25	75.84	15.91	100.00
Sample Size	42	386	81	509
Mean Length	541	571	592	572
% Female	50	44	46	44
Northern District				
General Subdistrict				
Number	4,914	25,505	1,950	32,369
Percent	15.18	78.79	6.02	100.00
Sample Size	63	327	25	415
Mean Length	540	554	568	553
% Female	38	49	64	48
Commercial Harvest Total				
Number	30,433	200,770	29,780	260,983
Percent	11.66	76.93	11.41	100.00
Sample Size	152	1,024	153	1,329
Mean Length	542	570	595	570
% Female	41	52	49	51

^a Mean length in mm.

Table 25.—Age, sex, and length composition of coho salmon in the Central District commercial drift gillnet harvest, Upper Cook Inlet, Alaska, 2004.

	Age Group			Total
	1.1	2.1	3.1	
Sample period:	28 June - 16 August			
Males	13,722	69,589	11,762	95,073
Percent	6.91	35.06	5.93	47.90
Sample Size	28	142	24	194
Mean Length ^a	542	575	606	574
Std. Error	6	3	6	2
Sample Size	28	142	24	194
Females	9,311	82,821	11,272	103,404
Percent	4.69	41.73	5.68	52.10
Sample Size	19	169	23	211
Mean Length	544	571	590	570
Std. Error	8	2	5	2
Sample Size	19	169	23	211
Both Sexes	23,033	152,410	23,034	198,477
Percent	11.60	76.79	11.61	100.00
Sample Size	47	311	47	405
Mean Length	543	573	598	572
Std. Error	5	2	4	2
Sample Size	47	311	47	405

^a Mean length in mm.

Table 26.—Age, sex, and length composition of coho salmon in Upper Subdistrict commercial set gillnet harvest, Upper Cook Inlet, Alaska, 2004.

	Age Group			Total
	1.1	2.1	3.1	
Sample period:	25 June - 7 August			
Males	1,243	12,908	2,605	16,756
Percent	4.12	42.83	8.64	55.60
Sample Size	21	218	44	283
Mean Length ^a	535	575	594	575
Std. Error	7	3	8	3
Sample Size	21	218	44	283
Females	1,243	9,947	2,191	13,381
Percent	4.12	33.01	7.27	44.40
Sample Size	21	168	37	226
Mean Length	548	565	589	568
Std. Error	6	3	6	3
Sample Size	21	168	37	226
Both Sexes	2,486	22,855	4,796	30,137
Percent	8.25	75.84	15.91	100.00
Sample Size	42	386	81	509
Mean Length	541	571	592	572
Std. Error	5	2	5	2
Sample Size	42	386	81	509

^a Mean length in mm.

Table 27.—Age, sex, and length composition of coho salmon in the General Subdistrict commercial set gillnet harvest, Upper Cook Inlet, Alaska, 2004.

	Age Group			Total
	1.1	2.1	3.1	
Sample period:	28 June - 2 September			
Males	3,042	12,947	702	16,691
Percent	9.40	40.00	2.17	51.56
Sample Size	39	166	9	214
Mean Length ^a	539	552	560	550
Std. Error	6	3	11	3
Sample Size	39	166	9	214
Females	1,872	12,558	1,248	15,678
Percent	5.78	38.80	3.86	48.44
Sample Size	24	161	16	201
Mean Length	544	556	572	556
Std. Error	6	2	8	2
Sample Size	24	161	16	201
Both Sexes	4,914	25,505	1,950	32,369
Percent	15.18	78.79	6.02	100.00
Sample Size	63	327	25	415
Mean Length	540	554	568	553
Std. Error	4	2	7	2
Sample Size	63	327	25	415

^a Mean length in mm.

Table 28.—Age, sex, and length composition of chum salmon in the Central District commercial drift gillnet harvest, Upper Cook Inlet, Alaska, 2004.

	Age Group				Total
	0.2	0.3	0.4	0.5	
Sample Period 1: 28 June - 11 July					
Males		2,673	6,622	41	9,336
Percent		14.80	36.68	0.23	51.71
Sample Size		65	161	1	227
Mean Length ^a		598	619	639	613
Std. Error		3	2		2
Sample Size		65	161	1	227
Females	370	2,756	5,593		8,719
Percent	2.05	15.26	30.98		48.29
Sample Size	9	67	136		212
Mean Length	584	614	616		614
Std. Error	4	4	2		2
Sample Size	9	67	136		212
Both Sexes	370	5,429	12,215	41	18,055
Percent	2.05	30.07	67.65	0.23	100.00
Sample Size	9	132	297	1	439
Mean Length	584	606	618	639	614
Std. Error	4	3	1		1
Sample Size	9	132	297	1	439

-continued-

Table 28.—Page 2 of 3.

	Age Group				Total
	0.2	0.3	0.4	0.5	
Sample Period 2: 12 July - 16 August					
Males	1,299	33,515	22,083		56,897
Percent	1.10	28.41	18.72		48.24
Sample Size	5	129	85		219
Mean Length	536	591	601		594
Std. Error	15	2	3		2
Sample Size	5	129	85		219
Females	520	32,215	28,319		61,054
Percent	0.44	27.31	24.01		51.76
Sample Size	2	124	109		235
Mean Length	550	584	601		591
Std. Error	14	2	2		1
Sample Size	2	124	109		235
Both Sexes	1,819	65,730	50,402		117,951
Percent	1.54	55.73	42.73		100.00
Sample Size	7	253	194		454
Mean Length	540	587	601		592
Std. Error	11	1	2		1
Sample Size	7	253	194		454

-continued-

Table 28.—Page 3 of 3.

	Age Group				Total
	0.2	0.3	0.4	0.5	
All Periods Combined:					
Males	1,299	36,188	28,705	41	66,233
Percent	0.96	26.61	21.11	0.03	48.70
Sample Size	5	194	246	1	446
Mean Length	536	591	605	639	596
Std. Error	15	2	2		1
Sample Size	5	194	246	1	446
Females	890	34,971	33,912		69,773
Percent	0.65	25.71	24.93		51.30
Sample Size	11	191	245		447
Mean Length	564	586	603		594
Std. Error	8	2	2		1
Sample Size	11	191	245		447
Both Sexes	2,189	71,159	62,617	41	136,006
Percent	1.61	52.32	46.04	0.03	100.00
Sample Size	16	385	491	1	893
Mean Length	548	589	604	639	595
Std. Error	9	1	1		1
Sample Size	16	385	491	1	893

^a Mean length in mm.

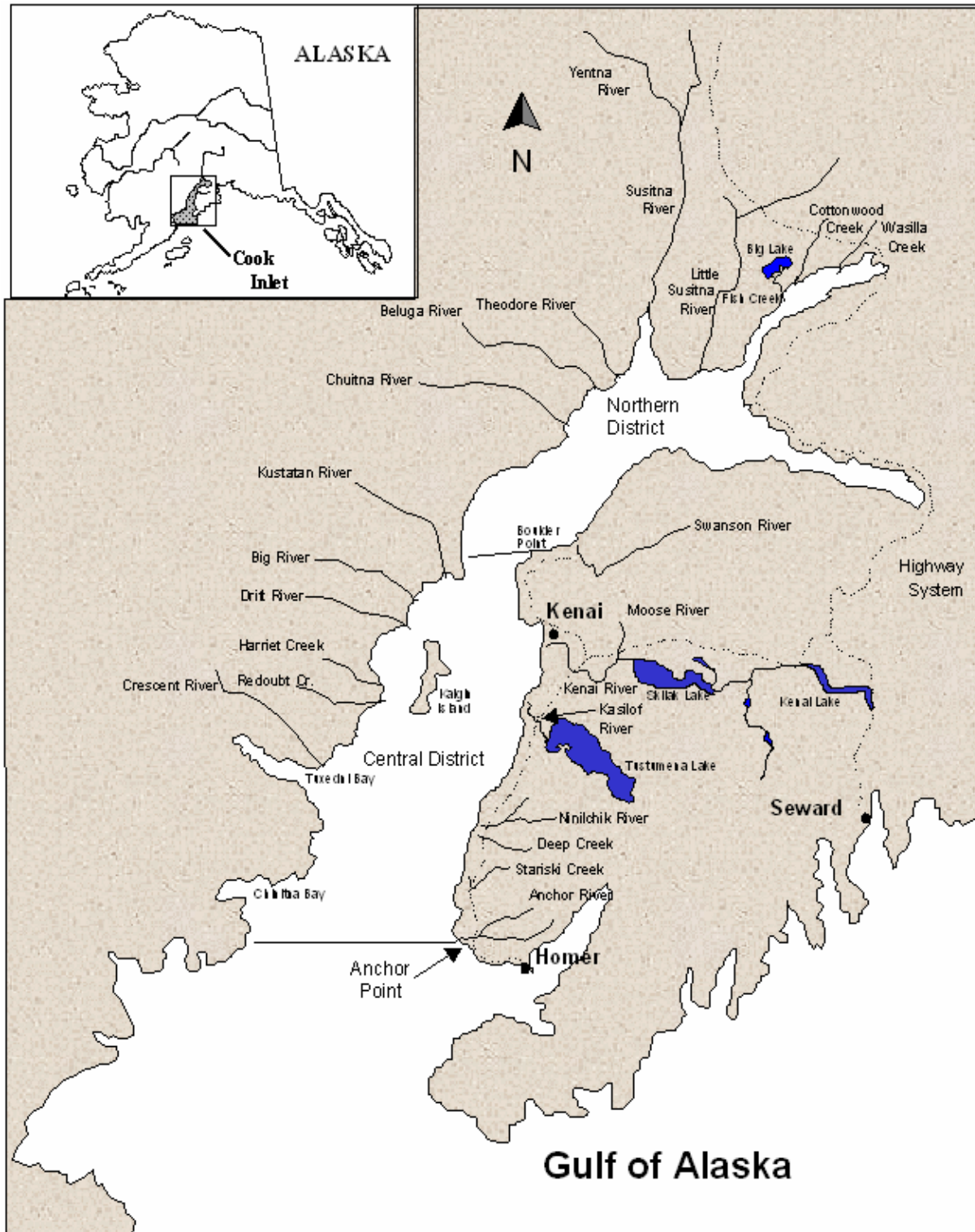


Figure 1.—Upper Cook Inlet showing locations of the Northern and Central Districts and the primary salmon spawning drainages.

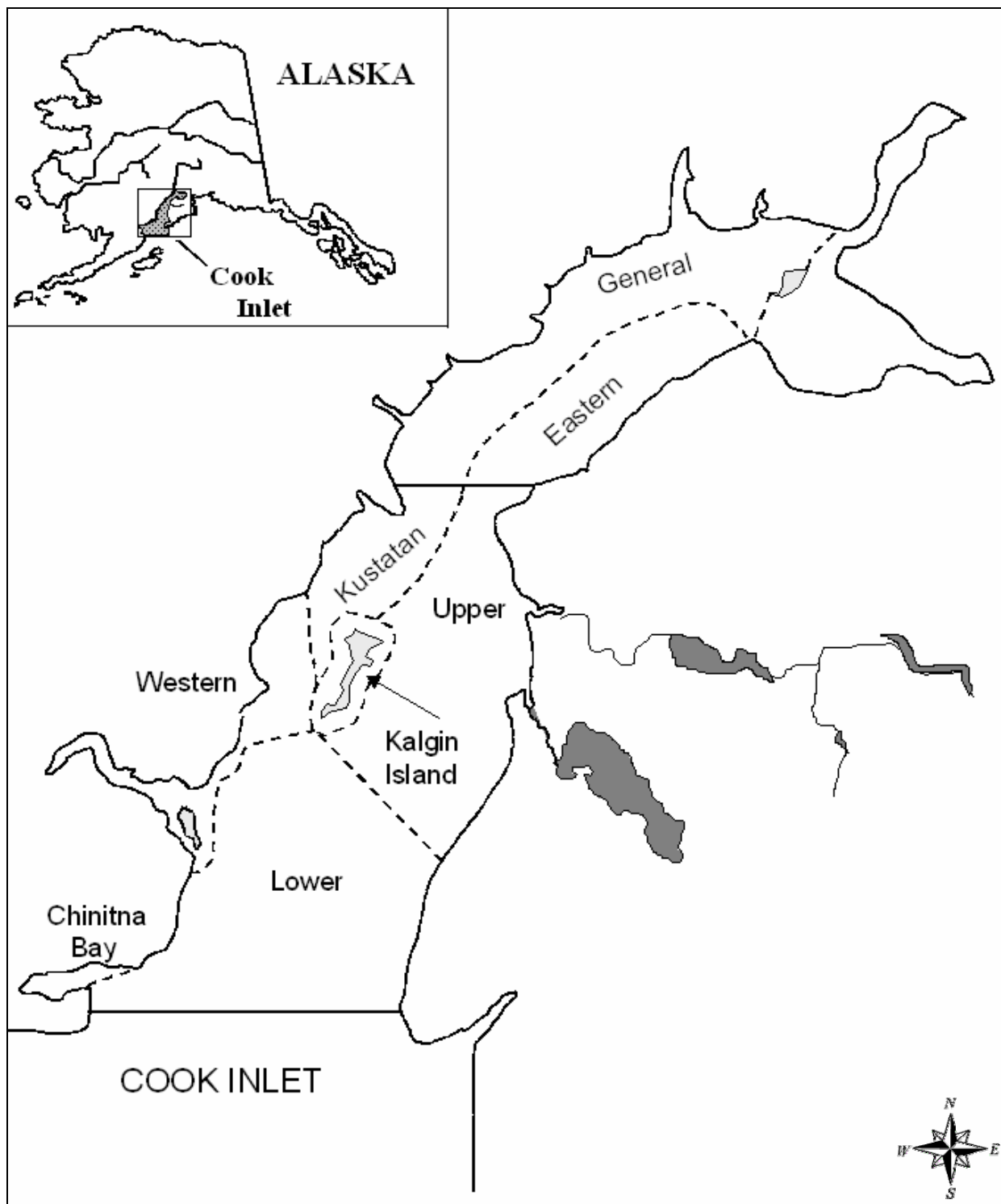


Figure 2.—Upper Cook Inlet commercial fisheries subdistrict fishing boundaries.

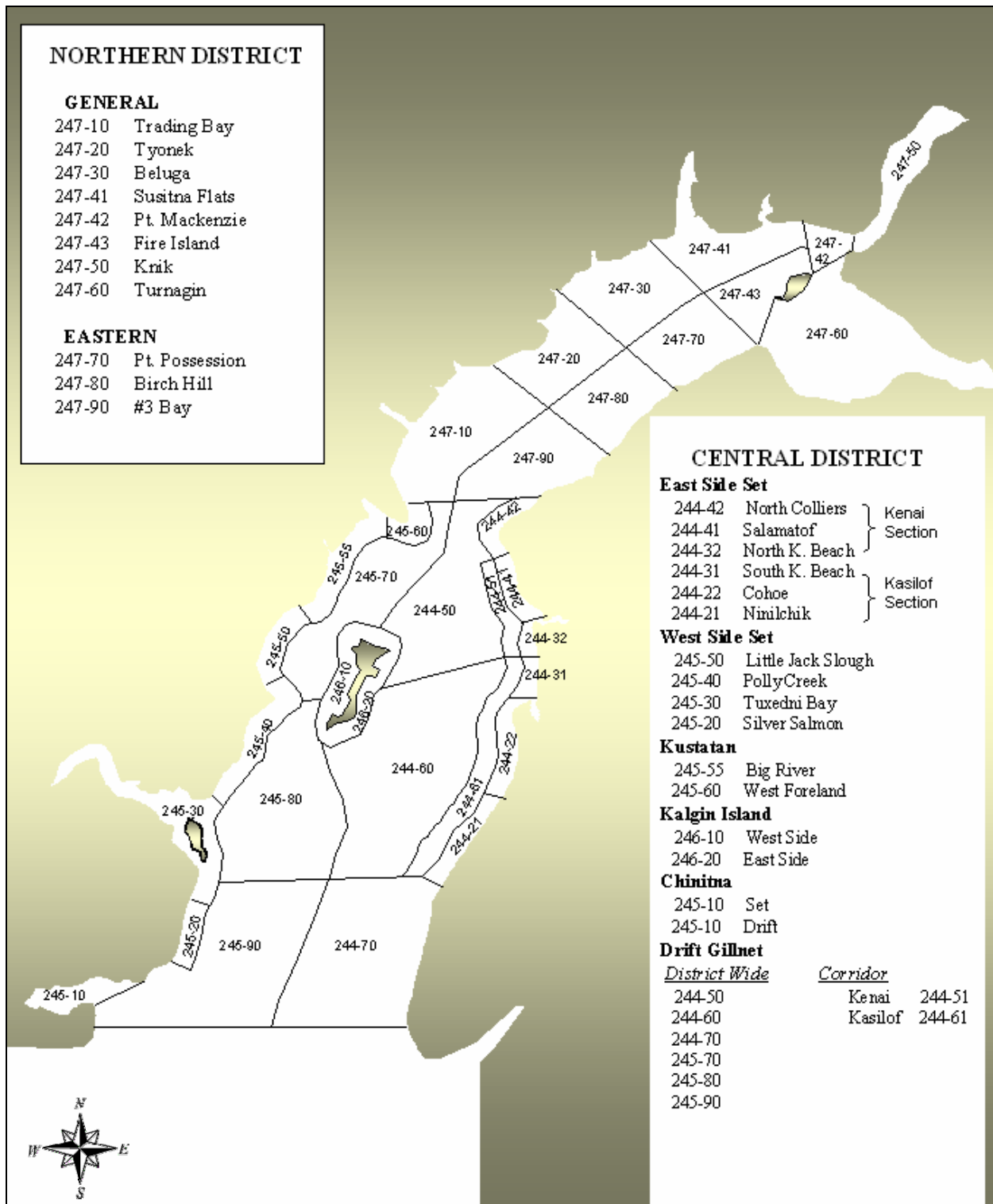
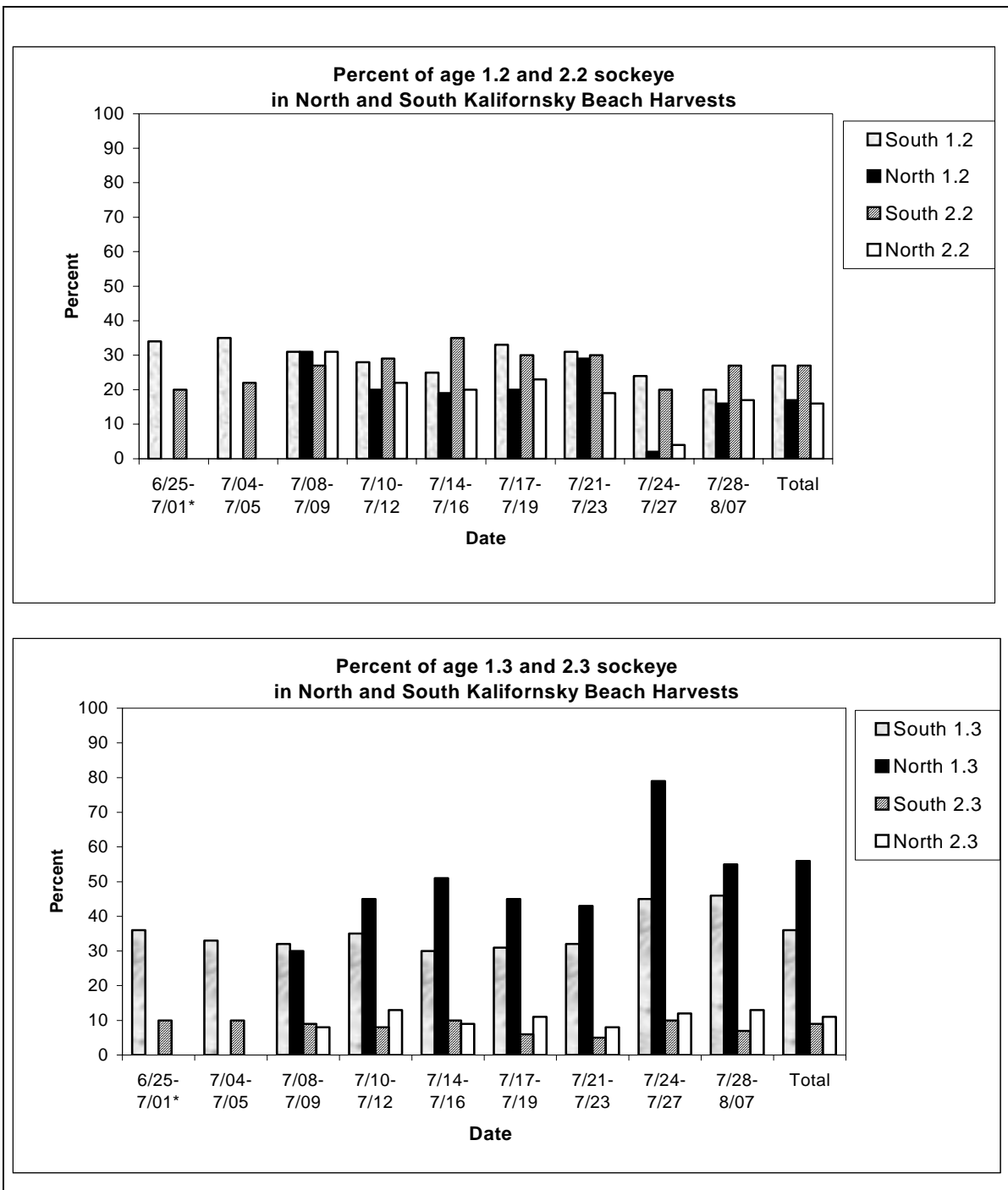


Figure 3.—Upper Cook Inlet commercial fishing statistical areas.



Note: North Kalifornsky Beach set gillnetting season opens 7/08, so no samples were taken from 6/25-7/07.

Figure 4.—A comparison of age composition of North and South Kalifornsky Beach, set gillnet harvests of sockeye salmon, Upper Cook Inlet, Alaska, 2004.

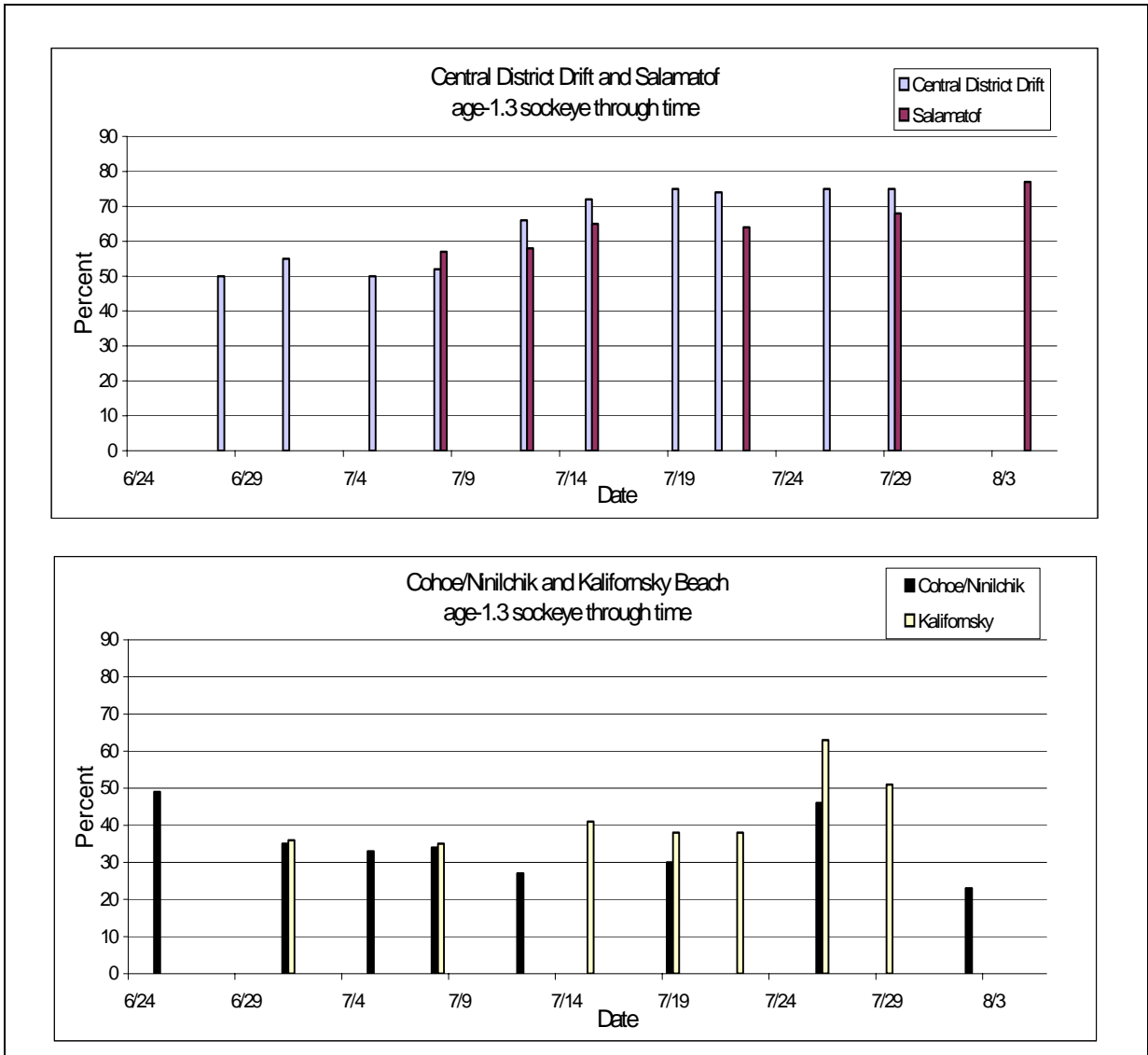


Figure 5.—Trends in age-1.3 sockeye salmon composition in the Central District drift gillnet and Upper Subdistrict (Salamatof, Kalifornsky and Coho/Ninilchik Beaches) set gillnet harvests, Upper Cook Inlet, Alaska, 2004.

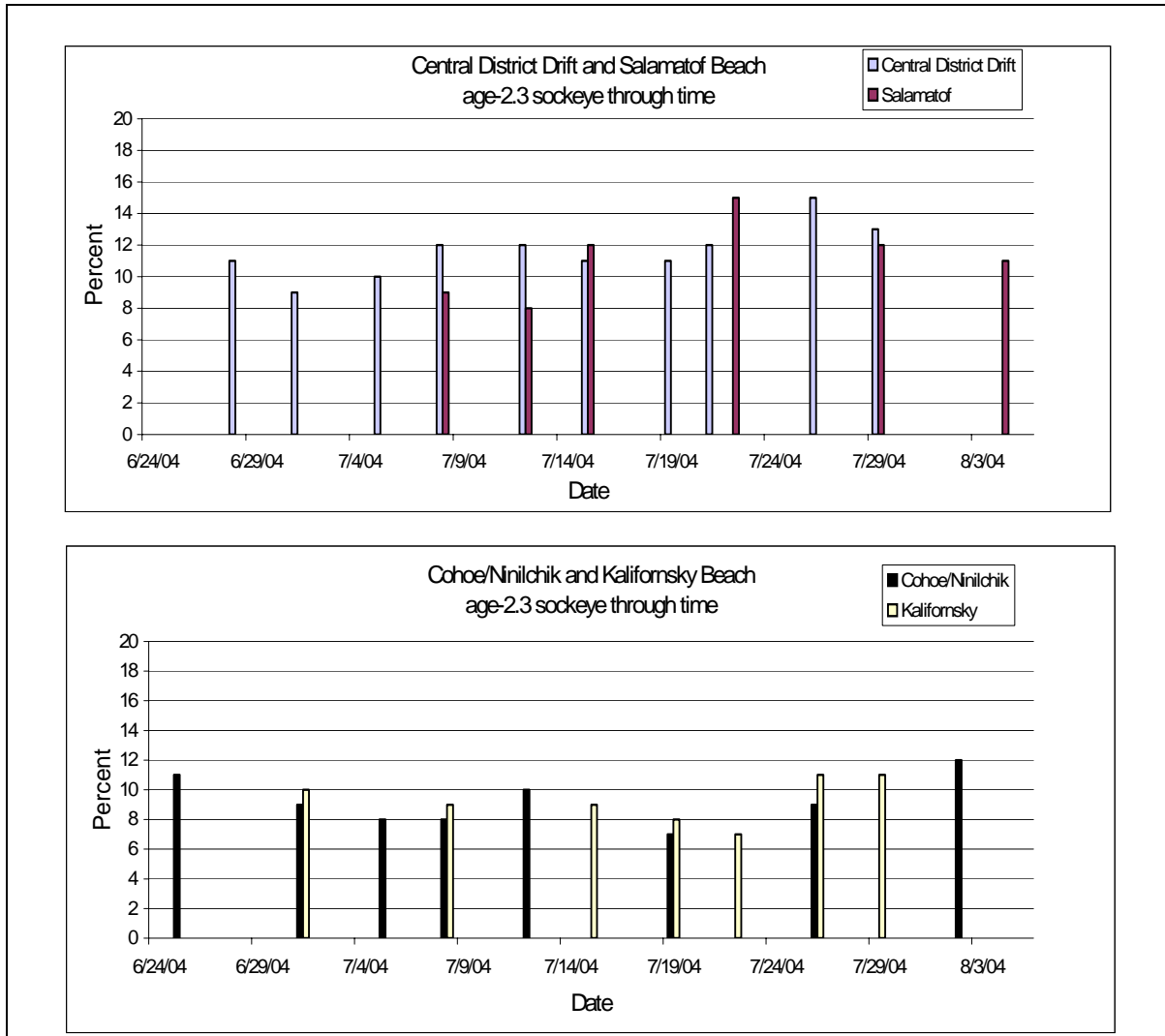


Figure 6.—Trends in age-2.3 sockeye salmon composition in the Central District drift gillnet and Upper Subdistrict (Salamatof, Kalifornsky, and Cohoe/Ninilchik beaches) set gillnet harvests, Upper Cook Inlet, Alaska, 2004.

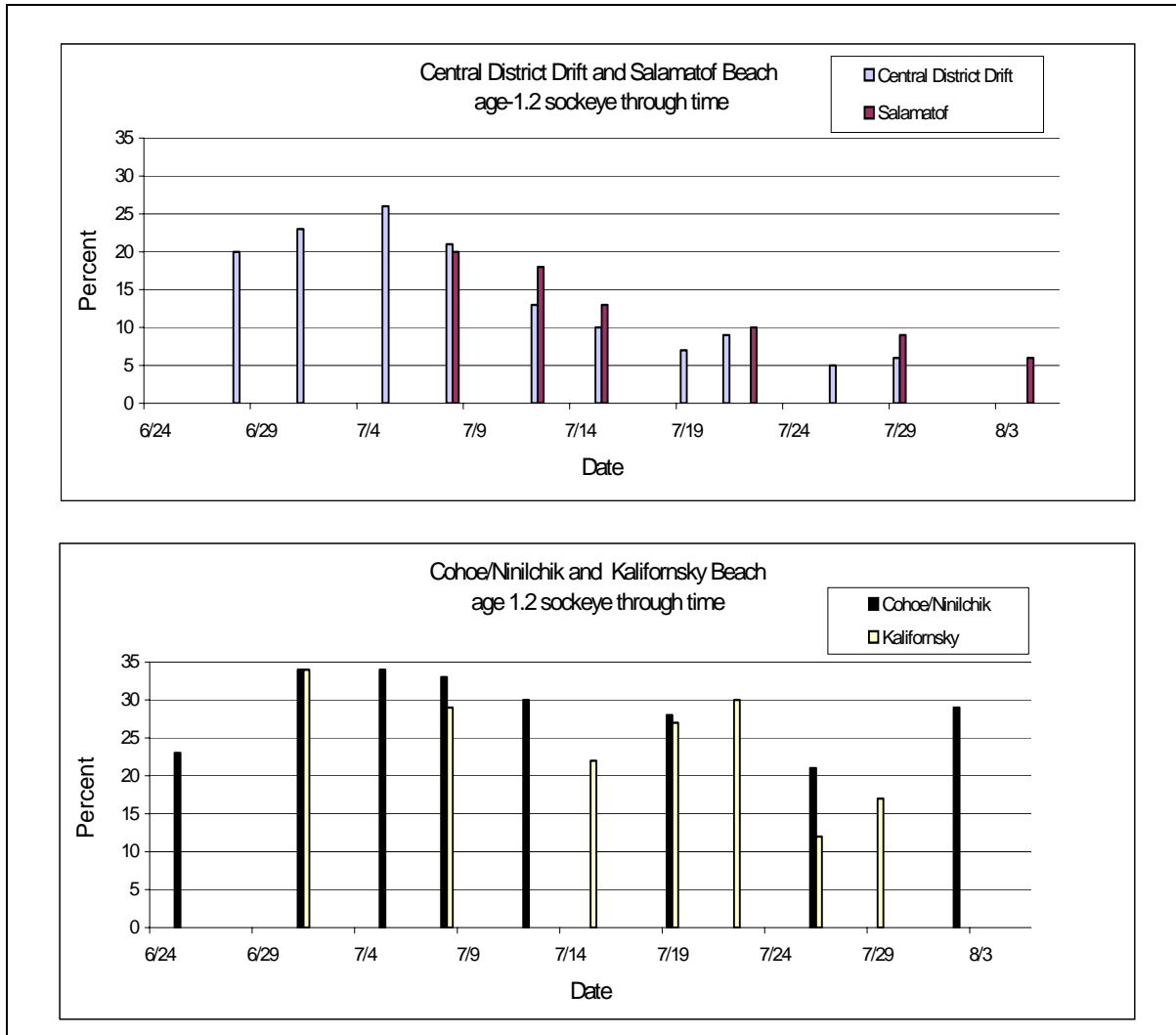


Figure 7.—Trends in age-1.2 sockeye salmon composition in the Central District drift gillnet and Upper Subdistrict (Salamatof, Kalifornsky, and Cohoe/Ninilchik Beaches) set gillnet harvests, Upper Cook Inlet, Alaska, 2004.

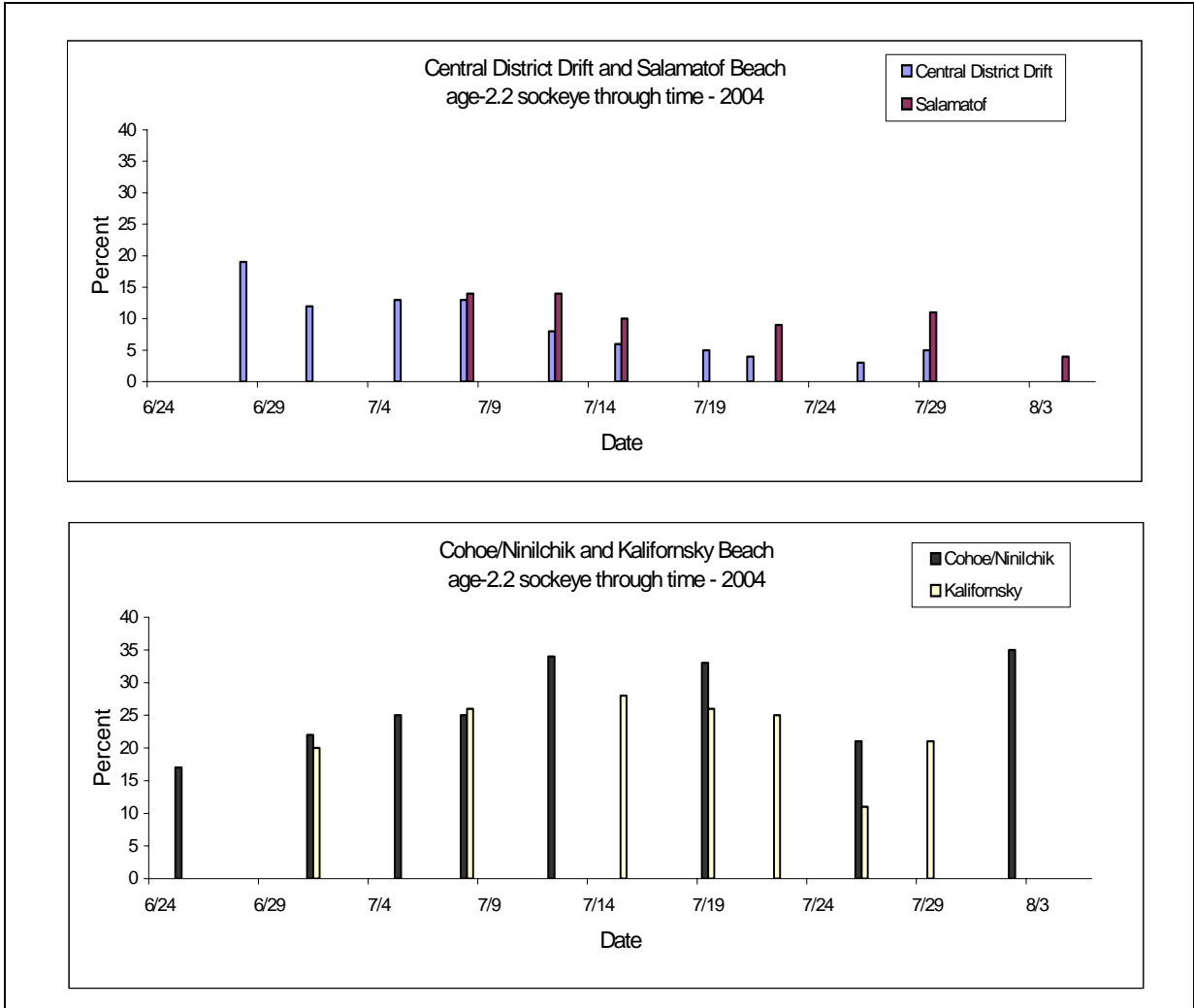


Figure 8.—Trends in age-2.2 sockeye salmon composition in the Central District drift gillnet and Upper Subdistrict (Salamatof, Kalifornsky, and Cohoe/Ninilchik Beaches) set gillnet harvests, Upper Cook Inlet, Alaska, 2004.

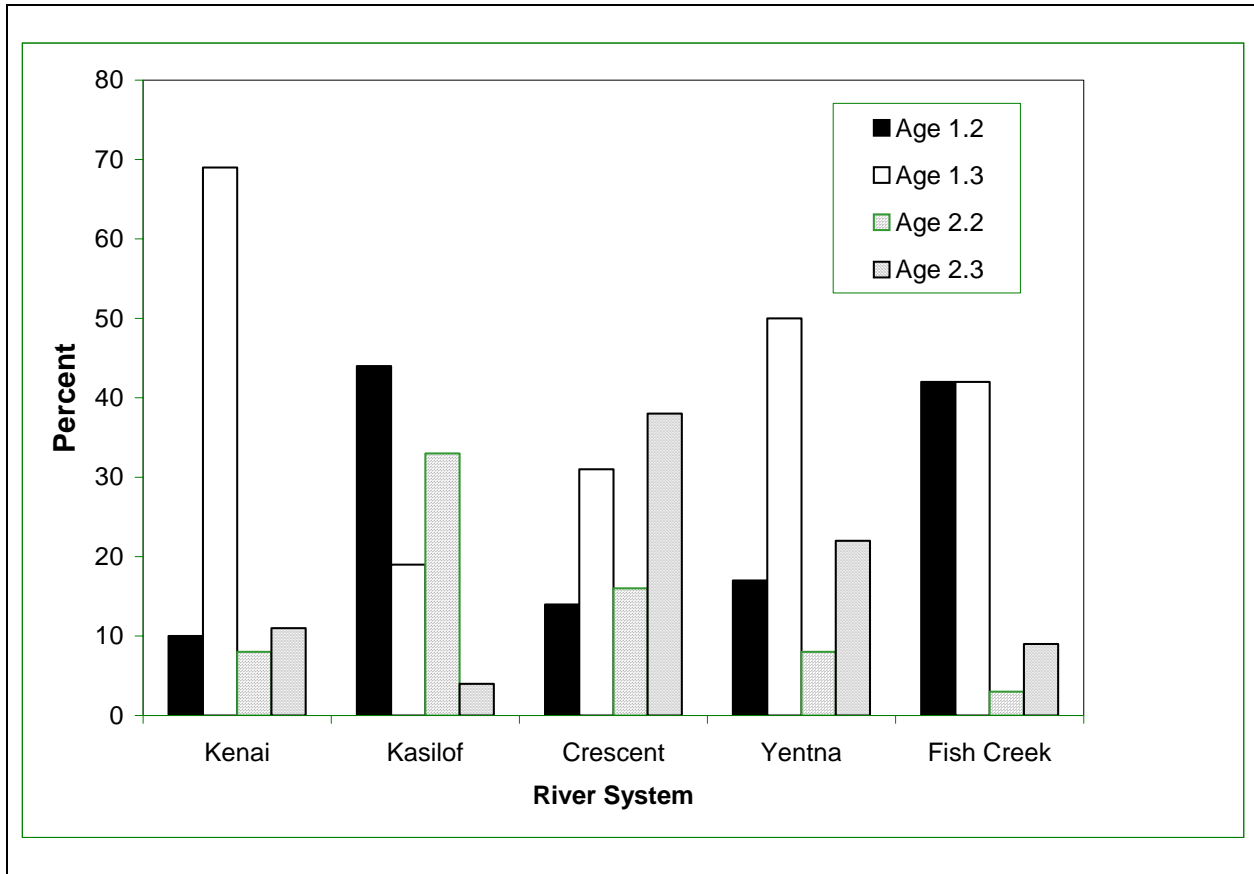


Figure 9.—Sockeye salmon escapement in age classes by river system, Upper Cook Inlet, Alaska, 2004.

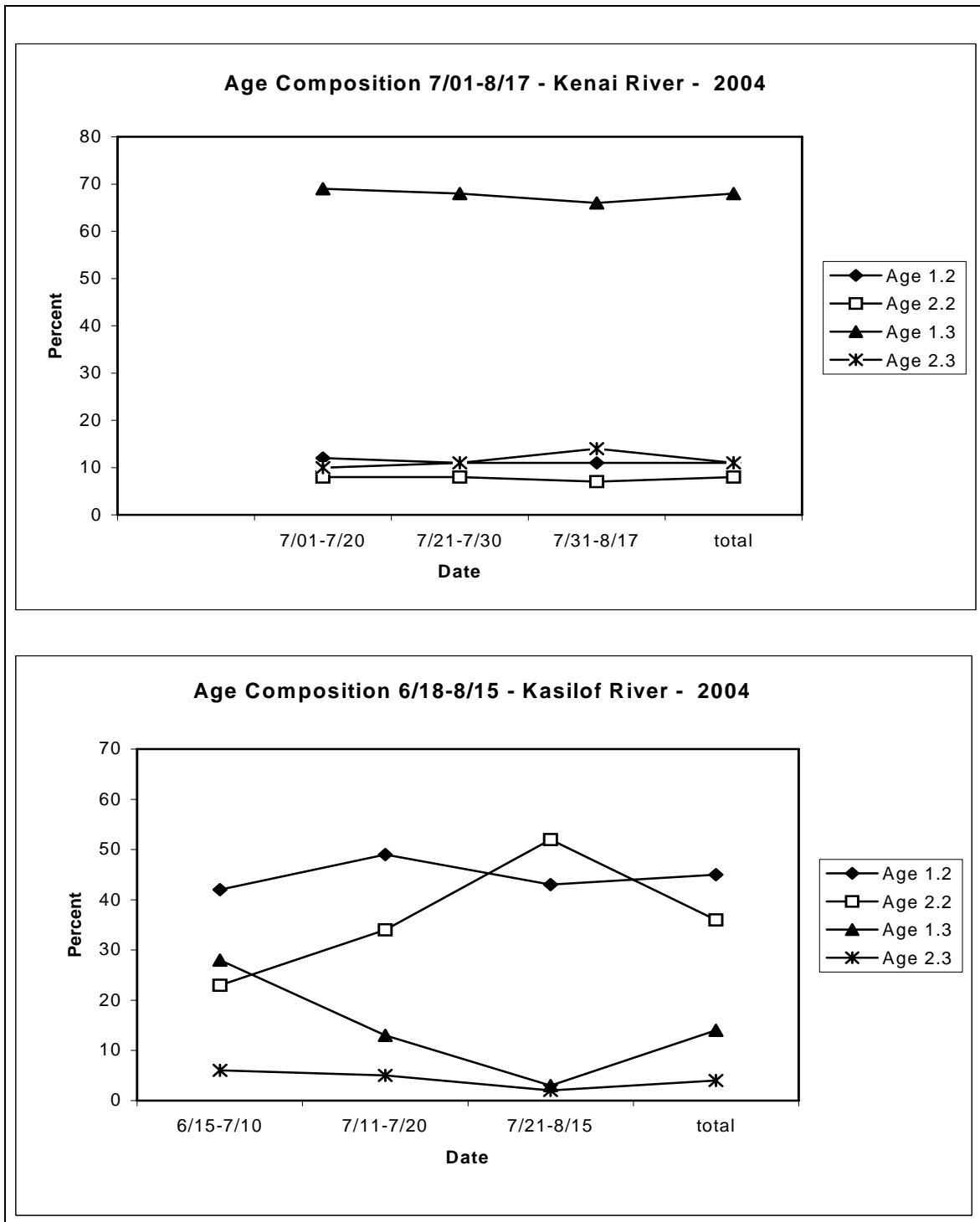


Figure 10.—Age class composition trends of sockeye salmon escapement through time in the Kasilof and Kenai Rivers, Upper Cook Inlet, Alaska, 2004.