

ABUNDANCE, AGE, SEX AND SIZE OF CHINOOK, SOCKEYE, COHO, AND
CHUM SALMON RETURNING TO UPPER COOK INLET, ALASKA, IN 2002

by

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and

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Regional Information Report¹ No. 2A03-10

Alaska Department of Fish and Game
Commercial Fisheries Division
333 Raspberry Road
Anchorage, Alaska 99518

March 2003

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ACKNOWLEDGMENTS

We would like to thank the following seasonal staff who provided assistance in collecting field data for this project: Gail Frasher, Marsha Spafard, Jeager Vega, Tim Elder, Kara Pike, Beth Glotfelty, James Cannava, Ivan Karic, Joshua Demske and Alicia Holladay. Matthew King of Sport Fish Division in Soldotna collected chinook data from the commercial fishery. Trent Dodson of Cook Inlet Aquaculture Association provided escapement data and scale samples from Hidden Creek. Tom Namtvedt of Sport Fish Division within ADF&G supplied data and scale samples from Fish Creek, Cottonwood Creek and the Little Susitna River.

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ABSTRACT

The estimated total return of sockeye salmon *Oncorhynchus nerka* to Upper Cook Inlet (UCI) in 2002 was 4.8 million fish. Commercial harvests and escapements of sockeye salmon that were monitored totaled 4.2 million fish. The commercial harvest was 2.8 million fish while the escapement into five major river systems was 1.7 million fish. The difference between the estimated and monitored total return represents in part; sport, subsistence and personal use harvests and unmonitored escapements. Age classes 1.2, 1.3, 2.2, and 2.3 comprised 98% of the combined UCI commercial sockeye salmon harvests and monitored escapements. Age class 1.3 represented 2.4 million fish or 58% of the total monitored return, while age 1.2 represented 0.9 million fish or 22 % of the total monitored return. Average length for the four major age classes ranged from 495 mm for age-1.2 fish to 585 mm for age-1.3 fish. Female composition of sockeye salmon in the combined commercial harvests and escapements equaled 53%.

A total of 12,714 chinook salmon *O. tshawytscha* were commercially harvested in UCI. The Upper Subdistrict eastside set gillnet harvest of 9,478 fish was the only harvest sampled and represented 75% of the total commercial harvest. Ages 1.1, 1.2, 1.3, and 1.4 comprised 99% of the harvest. Average length of the four major age classes ranged from 422 mm for age-1.1 fish to 989 mm for age-1.4 fish. Sex composition favored males at 55%.

The commercial harvest of coho salmon *O. kisutch* was 246,281 fish. Commercial gillnet harvests of coho that were monitored consisted of the drift fleet and Upper and General Subdistricts, which represented 80% 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 ranged from 538 mm for age-1.1 fish to 576 mm for age-3.1 fish. For the three commercial fisheries, the female composition of coho salmon averaged 35%.

The commercial harvest of chum salmon *O. keta* was 237,949 fish. The drift gillnet harvest which was the only harvest monitored was 224,587 fish or 94% of the total. Age class 0.3 comprised 98% of the harvest, with an average length of 606 mm. Female chum salmon contributed 52% to the harvest.

The commercial harvest of pink salmon *O. gorbuscha* in UCI in 2002 totaled 446,960 fish.

KEY WORDS: Salmon, *Oncorhynchus*, age, size, commercial catch, escapement, exploitation rate, Upper Cook Inlet, Alaska

INTRODUCTION

Upper Cook Inlet (UCI) supports the production of all five species of Pacific salmon *Oncorhynchus* (Figure 1). From 1966-2001 the average harvest of salmon in UCI was 4.2 million fish representing 2.8 million sockeye *O. nerka*, 0.9 million even-year pink *O. gorbuscha*, 0.1 million odd-year pink, 0.5 million chum *O. keta*, 0.3 million coho *O. kisutch*, and 15,000 chinook *O. tshawytscha* salmon. Salmon harvests in UCI represent approximately five percent of the statewide commercial harvest (Fox and Shields 2001). 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 (1964-78) 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 and 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 Waltemyer 1996; Waltemyer 1989, 1990, 1991, 1993, 1994a, 1994b, 1995a, 1995b; Waltemyer and Tobias 1997, 1998 Tobias and Tarbox 1999a, 1999b, 2000, Tobias and Willette 2001, 2002). 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. Specific objectives were: 1) document 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 ADF&G final fish ticket information.

ADF&G-CF personnel used Bendix Corporation² single beam side-scanning sonar to enumerate the adult salmon escapement in the Kenai (1 July-14 August, River Mile 19), Kasilof (14 June-11 August; RM 10.5), Crescent (27 June-29 July; RM 1.5), and Yentna River (7 July-8 August; RM 4.0; Westerman 2003)

² Vendor or product names are provided to document methods and do not constitute an endorsement by ADF&G.

Sockeye salmon escapement in Fish Creek was determined by counting fish migrating through a weir located three miles upstream from the confluence with Knik Arm of Cook Inlet.

Chinook salmon escapement in the Kenai River was estimated using Hydroacoustic Technology, Inc.² split-beam sonar (Miller et al. 2003).

Cook Inlet Aquaculture Association (CIAA) personnel monitored sockeye salmon escapements through a weir on Hidden Lake (Dodson, 2002).

Sport Fish Division personnel in Palmer monitored sockeye escapements through weirs at Cottonwood Creek, and chum escapements at the Little Susitna River. Sport Fish Division personnel in Soldotna monitored escapements on the Russian River.

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, three 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).

Sex and length information were recorded for all specimens sampled. Sex of the fish was determined by morphological characteristics. Chinook salmon were also checked for adipose fin clips. Length in millimeters was measured from mid-eye to fork-of-tail.

Age, sex and length compositions of the commercial catches were estimated using a stratified systematic random sampling design (Cochran 1977). A minimum sample size of 403 readable scales was defined for each species and strata to estimate simultaneously the proportion of each major age class in the harvest within five percent 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 sampling was set to account for unreadable scales. For sockeye escapements a weighted sample size of 500 fish was defined to provide the same level of precision. 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).

Commercial fishery harvests were 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 changes in seasonal age composition, sampling dates were selected based on historic data such as run timing for each species throughout the season.

The age composition results from each strata sampled were applied to the total harvest for that time period. 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.

Additional samples in 2002 include, North and South Kalifonsky Beach, which were sampled separately, for combined and separate age compositions. Sockeye scales were also collected by the crew from the Offshore Test fish boat during July of 2002.

RESULTS AND DISCUSSION

A total of 1,342 chinook, 31,003 sockeye, 1,684 coho, and 1,609 chum salmon were sampled in selected UCI commercial gillnet harvests and escapements in 2002 (Table 1). Age, sex and length data along with harvest and escapement information are presented below.

The 2002 UCI salmon harvest of 3.7 million fish was 1.6 million more than in 2001, and approximately .5 million less than the long-term (1966-2001) average.

Sockeye Salmon

Total Return

The sockeye salmon total return to Upper Cook Inlet in 2002 was comprised of a commercial harvest of 2.8 million fish, and an estimated escapement of 1.7 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 282,000 fish. These factors combined yielded a total return of 4.8 million sockeye in 2002.

The following four major age classes made up 98% of the monitored sockeye salmon commercial harvests and escapements (Table 3):

<u>Age Class</u>	<u>%</u>	<u>Escapement & Commercial Harvest</u>	<u>Mean Length</u>
1.2	22.3	927,488	495 mm
1.3	57.7	2,398,065	585 mm
2.2	10.1	419,887	503 mm
2.3	8.2	341,896	581 mm

s, numbers and mean lengths of sockeye salmon in the UCI

<u>%</u>	<u>Commercial Harvest</u>	<u>Mean Length</u>
19.3	527,898	498 mm
51.7	1,688,288	585 mm
9.1	248,805	505 mm
8.7	237,728	582 mm

ages, numbers and mean lengths in the monitored UCI

<u>%</u>	<u>Escapement</u>	<u>Mean Length</u>
28.2	399,590	492 mm
50.1	709,777	585 mm
12.1	171,082	499 mm
7.4	104,168	579 mm

age classes ranged from 46% (Western Subdistrict) to 57% total harvests and from 48% (Yentna River) to 54% (Kasilof

gillnet harvest (excluding Chinitna Bay) was 1,367,251 fish and represented 49% of the total UCI sockeye harvest. Historically, the gillnet represented 57%. The major age class percentages, number of fish

<u>%</u>	<u>Harvest</u>	<u>Mean Length</u>
4.4	196,449	514 mm
8.4	934,652	591 mm
6.1	83,162	525 mm
9.7	132,774	588 mm

harvest ranged from 46% (27 June-1 July) to 66% (25-27

harvest was 516,604 fish and represented 19% of the total (3 and 5). Historically the Cohoe/Ninilchik fishery harvest percentages, number of fish, and mean lengths were:

<u>%</u>	<u>Harvest</u>	<u>Mean Length</u>
8.4	146,830	482 mm
8.3	249,334	570 mm

2.2	14.6	75,383	490 mm
2.3	7.7	39,664	567 mm

Female composition in the Coho/Ninilchik Beach sockeye harvest ranged from 36% (1-5 August) to 63% (10 July; Table 5).

The Kalifonsky Beach set gillnet harvest, which historically averaged 12% of the total UCI sockeye salmon harvest, represented 13% or 359,157 fish in 2002, with 140,884 fish harvested from North Kalifonsky Beach and 218,273 fish from South Kalifonsky Beach (Tables 3, 6, 7 and 8). Sampling was done on both North and South Kalifonsky Beach.

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

<u>Age Class</u>	<u>%</u>	<u>Harvest</u>	<u>Mean Length</u>
1.2	24.8	34,948	494 mm
1.3	53.5	75,302	583 mm
2.2	14.1	19,853	499 mm
2.3	7.3	10,342	571 mm

Female composition in the North Kalifonsky Beach harvest ranged from 41% (8 July) to 55% (27-30 July; Table 6).

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

<u>Age Class</u>	<u>%</u>	<u>Harvest</u>	<u>Mean Length</u>
1.2	30.9	67,386	478 mm
1.3	47.7	104,008	571 mm
2.2	13.8	30,131	484 mm
2.3	7.3	15,867	566 mm

Female composition in the South Kalifonsky Beach harvest ranged from 42% (10-11 July) to 59% (31 July-5 August; Table 7).

Overall, South Kalifonsky Beach harvested more age 1.2 sockeye (31%) than North Kalifonsky Beach (25%). North Kalifonsky Beach harvested more age 1.3 sockeye (53%) than South Kalifonsky Beach (48%). This trend occurred throughout the sampling dates (Figure 8).

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

<u>Age Class</u>	<u>%</u>	<u>Harvest</u>	<u>Mean Length</u>
1.2	28.5	102,500	484 mm
1.3	50.0	178,752	577 mm
2.2	14.1	50,729	489 mm

2.3 7.1 25,645 568 mm

Female composition in the combined North and South Kalifonsky Beach harvest ranged from 43% (10-15 July) to 56% (26-30 July; Table 8).

The Salamatof Beach/East Forelands set gillnet harvest, which historically averaged 12% of the total UCI sockeye salmon harvest, represented 15% or 427,397 fish in 2002 (Tables 3 and 9). The four major age class percentages, number of fish, and mean lengths were:

<u>Age Class</u>	<u>%</u>	<u>Harvest</u>	<u>Mean Length</u>
1.2	15.7	67,027	506 mm
1.3	67.6	288,881	590 mm
2.2	7.1	30,274	521 mm
2.3	8.0	34,344	590 mm

Female composition in the Salamatof Beach harvest ranged from 46% (18-22 July) to 55% (25-29 July; Table 9).

Of the four Upper Subdistrict beach fisheries sampled, sockeye harvested in the South Kalifonsky Beach and Cohoe/Ninilchik Beach harvest were smallest in total mean length (530 and 532 mm) while sockeye in the Salamatof Beach harvest were the largest (572 mm). North Kalifonsky Beach sockeye salmon mean length was 548 mm.

In the Central District drift gillnet and Upper Subdistrict (Salamatof, North Kalifonsky, South Kalifonsky and Cohoe/Ninilchik Beaches) set gillnet harvests, age-1.3 fish were the predominant age class (Table 3; Figures 4-7).

The Eastern Subdistrict sockeye salmon set gillnet harvest of 10,568 fish, which historically averaged 1.4% of the total UCI sockeye salmon harvest, represented 0.4 % in 2001. (Tables 3 and 10). The major age class percentages, number of fish, and mean lengths were:

<u>Age Class</u>	<u>%</u>	<u>Harvest</u>	<u>Mean Length</u>
1.2	32.1	3,387	501 mm
1.3	35.5	3,749	573 mm
2.2	21.4	2,263	500 mm
2.3	9.0	949	570 mm

Female composition in the harvest was 52%.

The General Subdistrict set gillnet harvest of 22,532 which historically averaged 2.5% of the total UCI sockeye salmon harvest, represented 0.8% in 2002 (Tables 3 and 11). The major age class percentages, number of fish, and mean lengths were:

<u>Age Class</u>	<u>%</u>	<u>Harvest</u>	<u>Mean Length</u>
0.3	4.5	1,006	588 mm
1.2	28.6	6,438	514 mm

1.3	47.3	10,662	583 mm
2.2	5.4	1,208	508 mm
2.3	13.4	3,017	580 mm

Females represented 53% of the harvest. Due to sampling problems in 2002, only 112 sockeye were sampled from the General Subdistrict. A sample size of less than 405 is not considered statistically sound.

The Kalgin Island commercial set gillnet harvest of 28,138 represented 1.0% of the total UCI sockeye harvest (Table 2). Historically the Kalgin Island harvest represents 1.7% of the total sockeye 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 for age composition in 2002.

The Western Subdistrict set gillnet harvest of 34,868 represented 1.3% of the total UCI sockeye harvest (Tables 3 and 12). Historically, the Western Subdistrict harvests 6.2% of the total sockeye harvest. The major age class percentages, number of fish, and mean lengths were:

<u>Age Class</u>	<u>%</u>	<u>Harvest</u>	<u>Mean Length</u>
1.2	15.1	5,267	484 mm
1.3	63.8	22,258	539 mm
2.2	16.6	5,786	480 mm
2.3	3.8	1,335	550 mm

Females represented 46% of the harvest.

To obtain unmixed Western Subdistrict samples for age composition, samples were taken from the "Brisk", a boat which delivers sockeye harvested from the Harriet Creek area. This age composition would best represent the northern section of the Western Subdistrict and Kustatan Subdistrict sockeye.

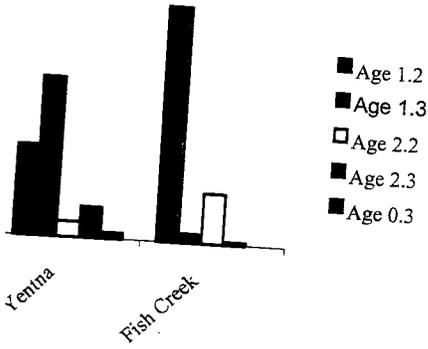
Escapement

A minimum of 1,714,849 sockeye salmon escaped the commercial fishery and entered the five major rivers and streams of UCI (Tables 2 and 3). Sockeye salmon escapements in descending order of abundance were 957,924 fish in Kenai River, 226,682 fish in Kasilof River, 153,252 fish in Susitna River, 62,833 fish in Crescent River and 90,482 fish in Fish Creek. The estimate of total Susitna River escapement represents the combined escapement at Yentna River sonar site (78,591) plus an estimate of the mainstem Susitna River based on the historical relation of Yentna River (x) to Sunshine Station (y) from 1981-85 (the only years of comparison) which yielded the following function:

$$y = 0.95 * x$$

ve escapement were age 1.2 (28.2%), age 1.3
 1. Individual age class composition by river is

e Classes by River System



ean lengths in the Kenai River sockeye

nt Mean Length

- 6 503 mm
- 9 592 mm
- 2 514 mm
- 1 591 mm

52 mm. Females comprised 51% of the

of 72,871 sockeye represented by age-1.2
 %) fish. Female composition in Hidden

run sockeye salmon weir escapement of
 nd mean lengths in the Russian River

Mean Length

- 395 mm
- 509 mm
- 584 mm
- 513 mm
- 586 mm

m. Females comprised 56% of the

Kasilof River had an escapement of 226,682 sockeye. Escapement age class percentages, number of fish and mean lengths were:

<u>Age Class</u>	<u>%</u>	<u>Escapement</u>	<u>Mean Length</u>
1.2	33.9	76,877	480 mm
1.3	38.1	86,296	549 mm
2.2	19.3	43,756	473 mm
2.3	6.6	14,890	548 mm

The overall mean length of Kasilof River escapement sockeye was 508 mm. Females comprised 54% of the Kasilof River escapement (Tables 3 and 16).

Crescent River escapement was 62,833 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</u>
1.2	19.1	11,980	474 mm
1.3	33.7	21,196	571 mm
2.2	11.2	7,037	498 mm
2.3	35.5	22,284	574 mm

The overall mean length of Crescent River escapement sockeye was 545 mm. Females comprised 51% of the Crescent River escapement (Tables 3 and 17).

The Yentna River, a tributary of the Susitna River, had an escapement of 78,591 sockeye salmon. The major age class percentages, number of fish and mean lengths were:

<u>Age Class</u>	<u>%</u>	<u>Escapement</u>	<u>Mean Length</u>
0.3	2.0	1,541	579 mm
1.2	28.8	22,601	490 mm
1.3	51.0	40,066	578 mm
2.2	5.5	4,281	483 mm
2.3	10.2	8,048	568 mm

The overall mean length of Yentna River sockeye was 543 mm. Female composition in the escapement was 48% (Tables 3 and 18).

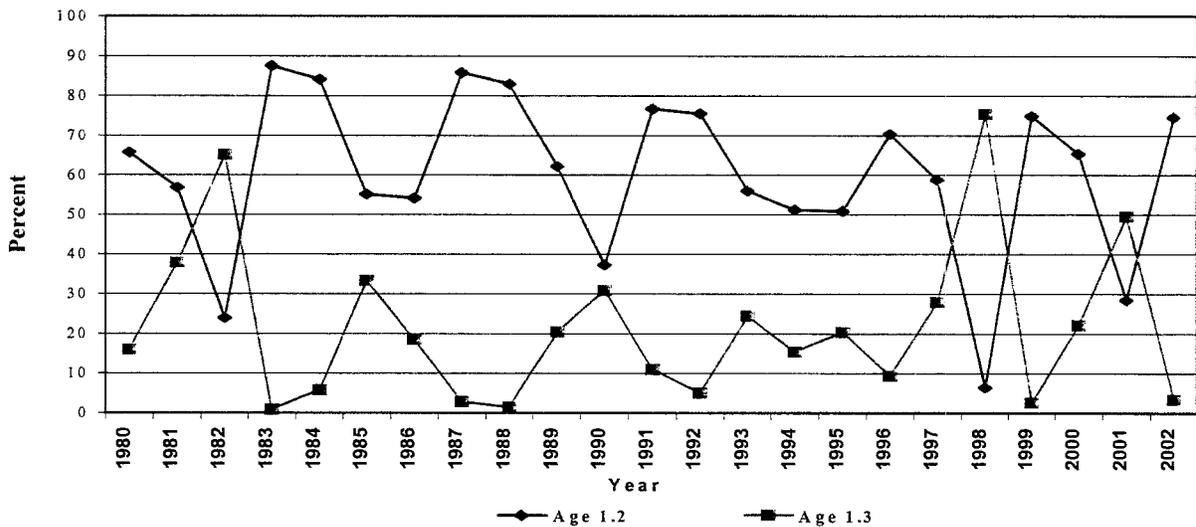
Fish Creek had an escapement of 90,482 sockeye salmon. Fish Creek sockeye age class percentages, number of fish, and mean lengths were:

<u>Age Class</u>	<u>%</u>	<u>Escapement</u>	<u>Mean Length</u>
1.1	3.3	3,000	358 mm
1.2	74.7	67,586	476 mm
1.3	3.3	3,000	537 mm
2.1	2.1	1,895	364 mm
2.2	15.9	14,369	481 mm

The overall mean length of Fish Creek sockeye was 472 mm. Females comprised 49% of the escapement (Tables 3 and 19).

Age 1.2 was the predominant age class for sockeye at Fish Creek in 2002. Previous escapement age compositions showed age 1.2 as being the predominant age class, with the exception of 1982, 1998 and 2001.

Fish Creek age 1.2 and age 1.3, 1980-2002



Cottonwood Creek, located in the Northern District, east of Fish Creek had a sockeye weir escapement count of 6,867 fish. Cottonwood Creek sockeye age class percentages, number of fish, and mean lengths were:

<u>Age Class</u>	<u>%</u>	<u>Escapement</u>	<u>Mean Length</u>
1.2	75.1	5,155	459 mm
1.3	15.5	1,065	514 mm
2.2	6.1	417	468 mm
2.3	1.2	84	524 mm

The overall mean length of Cottonwood Creek sockeye was 467 mm. Females comprised 55% of the escapement samples (Table 20).

Offshore Testfish

Sockeye salmon were sampled on the offshore test fishing boat during 2002. The offshore test fishing program employs a chartered gillnet vessel which fishes along a transect crossing Cook Inlet from Anchor Point to the Red Delta River, and provides an in-season estimate of run strength.

Members of the crew took scales, length and sex data from stations along the transect. Age class percentages, number of fish, and mean lengths were:

<u>Age Class</u>	<u>%</u>	<u># of Fish</u>	<u>Mean Length</u>
1.2	12.1	173	510 mm
1.3	65.7	937	584 mm
2.2	7.1	102	521 mm
2.3	12.3	176	579 mm

Age compositions were comparable to the Central District drift fishery results. Overall female composition from the drift fishery (57%) was higher than from samples from the offshore testfish boat (45%). 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 570 mm (Tables 3 and 21).

Chinook Salmon

Commercial Harvest

The total commercial harvest of chinook salmon in 2002 was 12,714 fish (Table 2) which was below the long-term average harvest of 15,465 fish. The Upper Subdistrict set gillnet fishery harvest was 9,478 or 75% of the UCI harvest (Table 22). The predominant age class percentages, number of fish and mean lengths in the Upper Subdistrict were:

<u>Age Class</u>	<u>%</u>	<u>Harvest</u>	<u>Mean Length</u>
1.1	10.6	1,005	422 mm
1.2	29.3	2,775	640 mm
1.3	36.7	3,477	871 mm
1.4	22.6	2,139	989 mm
1.5	0.7	67	1057 mm

The overall mean length was 784 mm, and females accounted for 45% of the commercial harvest. Late run chinook salmon escapement entering the Kenai River was estimated at 38,948 (Table 2).

Coho Salmon

Commercial Harvest

The coho salmon commercial harvest of 246,281 fish was below the long-term average of 334,651 fish. Coho salmon were sampled from three gillnet fisheries which represented 80% of the total UCI harvest (Table 23). Age-2.1 coho accounted for the bulk of the harvest:

	<u>Age 2.1</u>	<u>Harvest</u>	<u>Mean Length</u>
Central District drift gillnet	83.8%	105,410	557 mm
Upper Subdistrict set gillnet	76.7%	26,967	567 mm

5.3% 31,125 553 mm

accounted for the remainder of the total monitored coho age groups combined were, on average, larger in the Upper the Drift (557 mm) or the General Subdistrict (554 mm); 31% in the Upper Subdistrict set gillnet harvest to 32% in the General Subdistrict set gillnet harvest.

Chum Salmon

harvest was 237,949 fish. The historic average harvest of chum were sampled from the commercial drift gillnet harvest of the total commercial harvest (Table 27). The major age class lengths were:

<u>%</u>	<u>Harvest</u>	<u>Mean Length</u>
1.8	4,068	556 mm
97.1	218,077	602 mm
1.0	2,135	606 mm

chum salmon harvest. Overall mean length was 601 mm.

the Northern District, had an escapement of 41,264 chum one mile north of the Parks Highway. The major age class lengths were:

<u>%</u>	<u>Escapement</u>	<u>Mean Length</u>
3.0	1,246	587 mm
92.7	38,259	593 mm
3.4	1,393	615 mm

chum salmon escapement sampled. Overall mean length was 594

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Table 1. Number of salmon sampled from selected commercial gillnet harvests, escapements, and offshore test fishing in Upper Cook Inlet, Alaska, in 2002.

Location ^a	Species			
	Chinook	Sockeye	Coho	Chum
Commercial Catch:				
<u>Central District</u>				
Drift		4,376	500	1,000
Upper Subdistrict ^b	1,342		684	
Cohoe/Ninilchik Beach		3,883		
North Kalifornsky Beach		3,000		
South Kalifornsky Beach		4,623		
Salamatof Beach		2,500		
Western Subdistrict		500		
Kalgin Island		0		
<u>Northern District</u>				
Eastern Subdistrict		860		
General Subdistrict		120	500	
Subtotal	1,342	19,862	1,684	1,000
Escapement:				
<u>Central District</u>				
Kenai River				
Mainstem late run		2,704		
Hidden Creek ^c		1,436		
Russian River late run ^d		525		
Kasilof River				
Mainstem		2,242		
Crescent River		841		
<u>Northern District</u>				
Susitna River				
Yentna River		516		
Fish Creek ^d		678		
Cottonwood Creek ^d		511		
Little Susitna River ^d				609
Subtotal		9,453		609
Offshore Testfish Boat:				
Drift - Anchor Point to Red River Delta ^e		1,688		
Total	1,342	31,003	1,684	1,609

^a Specific locations not footnoted were sampled by Commercial Fisheries Division personnel, Alaska Department of Fish and Game (ADF&G).

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

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

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

^e Samples collected by Offshore Testfish crew.

Table 2. Number of salmon commercially harvested and escapements into the major five river systems of Upper Cook Inlet, Alaska, in 2002.

Fishery	CHINOOK	SOCKEYE	COHO	PINK	CHUM	TOTAL
Commercial Harvest:						
A. Northern District Total	1,895	33,100	50,292	6,224	4,901	96,412
1. Northern District West	1,307	22,532	36,494	4,380	4,463	69,176
a. Trading Bay 247-10	479	842	1,922	45	68	3,356
b. Tyonek 247-20	278	3,987	3,890	793	95	9,043
c. Beluga 247-30	105	9,805	8,417	3,432	1,530	23,289
d. Susitna Flat 247-41	141	3,380	6,223	50	759	10,553
e. Pt. Mackenzie 247-42	281	2,933	9,056	60	1,624	13,954
f. Fire Island 247-43	23	1,585	6,986	0	387	8,981
2. Northern District East	588	10,568	13,798	1,844	438	27,236
a. Pt. Possession 247-70	203	4,887	5,169	1,110	405	11,774
b. Birch Hill 247-80	241	1,040	1,207	62	3	2,553
c. Number 3 Bay 247-90	144	4,641	7,422	672	30	12,909
B. Central District Total	10,819	2,740,018	195,989	440,736	233,048	3,620,610
1. East Side Set Total	9,478	1,303,158	35,153	214,771	1,790	1,564,350
a. Salamatof/EastForelands	1,703	427,397	19,280	77,483	771	526,634
1. East Foreclands 244-42	38	45,120	5,317	9,306	380	60,161
2. Salamatof 244-41	1,665	382,277	13,963	68,177	391	466,473
b. Kalifonsky Beach	2,827	359,157	6,710	52,368	52	421,114
1. North K. Beach 244-32	970	140,884	4,205	29,434	34	175,527
2. South K. Beach 244-31	1,857	218,273	2,505	22,934	18	245,587
d. Cohoe/Ninilchik	4,948	516,604	9,163	84,920	967	616,602
1. Cohoe 244-22	2,561	236,265	4,846	35,270	72	279,014
2. Ninilchik 244-21	2,387	280,339	4,317	49,650	895	337,588
2. West Side Set Total	362	34,868	12,280	1,195	5,393	54,098
a. Little Jack Slough 245-50	4	6,099	5,631	914	468	13,116
b. Polly Creek 245-40	17	383	1	0	59	460
c. Tuxedni Bay 245-30	341	28,386	6,648	281	4,866	40,522
3. Kustatan Total	537	6,603	756	222	1	8,119
a. Big River 245-55	536	5,600	0	0	0	6,136
b. West Foreland 245-60	1	1,003	756	222	1	1,983
4. Kaigin Island Total	27	28,138	21,969	319	1,277	51,730
a. West Side 246-10	25	18,686	17,341	176	1,207	37,435
b. East Side 246-20	2	9,452	4,628	143	70	14,295
5. Chinitna Bay Total	0	0	0	0	0	0
6. Central District Set Total	10,404	1,372,767	70,158	216,507	8,461	1,678,297
7. Central District Drift Total	415	1,367,251	125,831	224,229	224,587	1,942,313
a. West Side 245-70,80,90	29	66,042	7,770	5,365	14,266	93,472
b. East Side 244-50,60,70	196	1,065,496	108,824	202,305	197,542	1,574,363
c. East Side Corridor Total	190	235,713	9,237	16,559	12,779	274,478
2. Kasilof Corridor 244-61	35	17,315	23	50	66	17,489
3. E. Side Corridor 244-55	155	218,398	9,214	16,509	12,713	256,989
Commercial Harvest Total	12,714	2,773,118	246,281	446,960	237,949	3,717,022
Escapement:						
Kenai River	38,948 ^a	957,924				
Kasilof River		226,682				
Crescent River		62,833				
Susitna River ^b		153,252				
Fish Creek		90,482				
Other ^c		223,676				
Escapement Total ^d		1,714,849				
Upper Cook Inlet Total	51,017	4,487,967^e	245,116	436,382	225,472	3,680,929

a Late run only.

b Susitna River escapement comprises the Yentna River escapement of 78,591 plus an estimate of Susitna mainstem escapement based on the relation: Sunshine equals 95% of the Yentna escapement developed using comparative data from 1981-85.

c Other represents other unmonitored systems in Upper Cook Inlet, estimated to be 15% of total monitored systems.

d Escapement does not represent spawners.

e Total does not account for sport, personal use and subsistence harvest that were estimated at 282,000 for an estimated total Cook Inlet return of 4.8 million sockeye salmon.

Table 3. Age, length, and percent female composition of sockeye salmon, in selected commercial gillnet harvests and river escapements, Upper Cook Inlet, Alaska, in 2002.

Location	Age Group											Total		
	0.2	1.1	0.3	1.2	2.1	0.4	1.3	2.2	3.1	1.4	2.3		3.2	2.4
COMMERCIAL HARVEST														
Central District														
Central Drift														
Number	830		9,827	196,449			934,652	83,162		8,197	132,774	830	531	1,367,252
Percent	.06		.72	14.37			68.36	6.08		.60	9.71	.06	.04	100.00
Sample Size	1		23	594			2,684	269		24	395	1	3	3,994
Mean Length ^a	443		588	514			591	525		632	588	488	603	576
% Female			64	57			56	61		43	57	100	85	57
Cohoe/Ninilchik Beach														
Number	267	572	163	146,830	1,056		249,334	75,383		3,051	39,664	284		516,604
Percent	.05	.11	.03	28.42	.20		48.26	14.59		.59	7.68	.05		100.00
Sample Size	2	5	2	1,137	10		1,509	630		18	245	2		3,560
Mean Length	422	324	572	482	369		570	490		610	567	533		532
% Female	8	68	100	48	29		54	46		24	52	50		51
Kalifonsky Beach														
Number		107	168	102,500	315	40	178,752	50,729		901	25,645			359,157
Percent		.03	.05	28.54	.09	.01	49.77	14.12		.25	7.14			100.00
Sample Size		5	2	2,007	13	1	3,478	1,057		20	536			7,119
Mean Length		331	582	484	394	611	577	489		616	568			537
% Female		55	100	42	63	100	53	42		49	59			49
Salamatof Beach														
Number	208	60	1,423	67,027	240		288,881	30,274		4,597	34,344	343		427,397
Percent	.05	.01	.33	15.68	.06		67.59	7.08		1.08	8.04	.08		100.00
Sample Size	1	1	6	357	4		1,583	169		23	193	2		2,339
Mean Length	449	351	570	506	380		590	521		618	590	554		572
% Female			40	44	50		50	64		46	53	100		50
Western														
Number		74		5,267			22,258	5,786			1,335	148		34,868
Percent		.21		15.11			63.84	16.59			3.83	.42		100.00
Sample Size		1		71			300	78			18	2		470
Mean Length		592		484			539	480			550	480		521
% Female				56			42	51			56	50		46

Continued

Table 3 (page 2 of 4)

Location	Age Group											Total			
	0.2	1.1	0.3	1.2	2.1	0.4	1.3	2.2	3.1	1.4	2.3		3.2	2.4	3.3
COMMERCIAL HARVEST (continued)															
Northern District															
Eastern Subdistrict															
Number	27	14	82	3,387	14		3,749	2,263		41	949	28		14	10,568
Percent	.26	.13	.78	32.05	.13		35.48	21.41		.39	8.98	.26		.13	100.00
Sample Size	2	1	6	250	1		277	167		3	70	2		1	780
Mean Length	491	412	571	501	413		573	500		571	570	511		573	533
% Female	100	100	50	49	100		52	54		34	54	50		100	52
General Subdistrict															
Number	201		1,006	6,438			10,662	1,208			3,017				22,532
Percent	.89		4.46	28.57			47.32	5.36			13.39				100.00
Sample Size	1		5	32			53	6			15				112
Mean Length	456		588	514			583	508			580				558
% Female			40	47			58	50			53				53
Commercial Catch Total															
Number	1,533	753	12,743	527,898	1,625	40	1,688,288	248,805		16,787	237,728	1,633	531	14	2,738,378 ^b
Percent	.06	.03	.47	19.28	.06	.00	61.65	9.09		.61	8.68	.06	.02	.00	100.00
Sample Size	7	12	45	4,448	28	1	9,884	2,376		88	1,472	9	3	1	18,374
Mean Length	443	329	586	498	376	611	585	505		623	582	509	603	573	561
% Female	0	61	60	50	39	100	54	53		41	56	86	85	100	53
ESCAPEMENT															
Central District															
Kenai River															
Number	784		392	220,546	7,063		559,219	101,639	785	6,671	58,472	784	1,177	392	957,924
Percent	.08		.04	23.02	.74		58.38	10.61	.08	.70	6.10	.08	.12	.04	100.00
Sample Size	2		1	562	18		1,425	259	2	17	149	2	3	1	2,441
Mean Length	425		582	503	379		592	514	383	634	591	501	593	598	562
% Female	50		100	46	44		53	55		41	50	50	33		51

Continued

Table 3. (page 3 of 4)

Location	Age Group												Total	
	0.2	1.1	0.3	1.2	2.1	0.4	1.3	2.2	3.1	1.4	2.3	3.2		2.4
ESCAPEMENT (continued)														
Kasilof River														
Number	608		76,877	3,343		86,296	43,756		608	14,890		304		226,682
Percent	.27		33.91	1.47		38.07	19.30		.27	6.57		.13		100.00
Sample Size	2		253	11		284	144		2	49		1		746
Mean Length	335		480	370		549	473		569	548		565		508
% Female	100		55	27		49	65		100	49		49		54
Crescent River														
Number			11,980	84		21,196	7,037		168	22,284		84		62,833
Percent			19.07	.13		33.73	11.20		.27	35.47		.13		100.00
Sample Size			143	1		253	84		2	266		1		750
Mean Length			474	405		571	498		543	574		632		545
% Female			27			59	43		100	59		51		51
Northern District														
Yentna River^c														
Number	1,370		1,541	22,601		40,066	4,281			8,048				78,591
Percent	1.74		1.96	28.76		50.98	5.45			10.24				100.00
Sample Size	8		9	132		234	25			47				459
Mean Length	454		579	490		578	483			568				543
% Female	38		33	42		52	36			55				48
Fish Creek														
Number	3,000		67,586	1,895		3,000	14,369		158	474				90,482
Percent	3.32		74.70	2.09		3.32	15.88		.17	.52				100.00
Sample Size	19		428	12		19	91		1	3				573
Mean Length	358		476	364		537	481		325	508				472
% Female			52	8		32	56			67				49
Escapement Total														
Number	2,154	4,121	1,933	399,590	12,385	709,777	171,082		943	7,447	104,168	784	1,565	563
Percent	.15	.29	.14	28.21	.87	50.11	12.08		.07	.53	7.35	.06	.11	.04
Sample Size	10	24	10	1,518	42	2,215	603		3	21	514	2	5	2
Mean Length	443	353	579	492	374	585	499		373	626	579	501	590	603
% Female	0	23	47	48	34	53	57			47	52	50	25	51

Continued

Table 3. (page 4 of 4)

Location	Age Group											Total			
	0.2	1.1	0.3	1.2	2.1	0.4	1.3	2.2	3.1	1.4	2.3		3.2	2.4	3.3
Upper Cook Inlet Total															
Number	3,687	4,874	14,676	927,488	14,010	40	2,398,065	419,887	943	24,234	341,896	2,417	2,096	577	4,154,890 ^e
Percent	.12	.35	22.32	.34	.00	.00	57.72	10.11	.02	.58	8.23	.06	.05	.01	100.00
Sample Size	17	36	55	5,966	70	1	12,099	2,979	3	109	1,986	11	8	3	23,343
Mean Length	443	350	585	495	374	611	585	503	373	624	581	507	593	602	556
% Female	25	29	58	49	35	100	54	54	373	43	55	74	40	2	53

^a Mean length in mm.

^b Total harvest does not include commercial harvests of 28,138 from Kalgin Island and 6,603 from Kustatan subdistricts. Total Upper Cook Inlet sockeye commercial harvest was 2,773,118.

^c Yentna River represents 51% of the Susitna River total escapement, which is estimated to be 153,252 sockeye.

^d Escapement total excludes an additional 74,661 Susitna River total escapement and 223,653 sockeye from "other" unmonitored systems estimated to be 15% of the monitored systems for a total Upper Cook Inlet sockeye salmon escapement of 1.7 million sockeye salmon.

^e Total does not account for sport, personal use and subsistence harvests that were estimated at 282,000 for an estimated total Upper Cook Inlet return of 4.8 million sockeye salmon.

Table 4. Age, sex and length composition of sockeye salmon in the Central District commercial drift gillnet harvest, Upper Cook Inlet, Alaska, in 2002.

	Age Group							Total		
	0.2	0.3	1.2	1.3	2.2	1.4	2.3		3.2	2.4
Sample Period 1: 27 June - 1 July ^a										
Males										
Percent			1,343	7,880	584			1,167		10,974
Sample Size			6.55	38.46	2.85			5.70		53.56
Mean Length ^a			23	135	10			20		188
Std. Error			508	590	517			588		576
Sample Size			6	3	12			10		2
			23	135	10			20		188
Females										
Percent			700	6,831	642			1,284		9,515
Sample Size			3.42	33.34	3.13			6.27		46.44
Mean Length			12	117	11			22		163
Std. Error			496	566	508			572		558
Sample Size			7	2	8			5		2
			12	117	11			22		163
Both Sexes										
Percent			2,043	14,711	1,226			2,451		20,489
Sample Size			9.97	71.80	5.98			11.96		100.00
Mean Length			35	252	21			42		351
Std. Error			504	579	512			580		568
Sample Size			4	2	7			5		2
			35	252	21			42		351

Table 4. (page 2 of 10)

	Age Group										Total	
	0.2	0.3	1.2	1.3	2.2	1.4	2.3	3.2	2.4			
Sample Period 2: 4 - 6 July ^c												
Males	6,663	60,636	1,666	666	6,663							76,294
Percent	4.37	39.74	1.09	0.44	4.37							50.00
Sample Size	20	182	5	2	20							229
Mean Length	525	599	517	643	603							591
Std. Error	7	3	22	11	8							3
Sample Size	20	182	5	2	20							229
Females	8,995	57,305	999		8,995							76,294
Percent	5.89	37.56	0.65		5.89							50.00
Sample Size	27	172	3		27							229
Mean Length	514	582	505		586							573
Std. Error	5	2	25		6							2
Sample Size	27	172	3		27							229
Both Sexes	15,658	117,941	2,665	666	15,658							152,588
Percent	10.26	77.29	1.75	0.44	10.26							100.00
Sample Size	47	354	8	2	47							458
Mean Length	519	590	513	643	593							582
Std. Error	4	2	17	11	5							2
Sample Size	47	354	8	2	47							458

-Continued-

Table 4. (page 3 of 10)

	Age Group										Total	
	0.2	0.3	1.2	1.3	2.2	1.4	2.3	3.2	2.4			
Sample Period 3: 8 July												
Males												
Percent	2,198	21,430	84,620	8,242	549	11,539						128,578
Sample Size	0.87	8.44	33.33	3.25	0.22	4.55						50.65
Mean Length	4	39	154	15	1	21						234
Std. Error	603	513	602	519	667	612						583
Sample Size	23	6	3	10	6	6						2
	4	39	154	15	1	21						234
Females												
Percent	3,297	15,935	81,324	8,242	1,099	15,385						125,282
Sample Size	1.30	6.28	32.03	3.25	0.43	6.06						49.35
Mean Length	6	29	148	15	2	28						228
Std. Error	577	508	588	524	617	577						572
Sample Size	11	5	2	8	1	5						2
	6	29	148	15	2	28						228
Both Sexes												
Percent	5,495	37,365	165,944	16,484	1,648	26,924						253,860
Sample Size	2.16	14.72	65.37	6.49	0.65	10.61						100.00
Mean Length	10	68	302	30	3	49						462
Std. Error	588	510	595	521	634	592						577
Sample Size	11	4	2	6	1	4						1
	10	68	302	30	3	49						462

-Continued-

Table 4. (page 4 of 10)

	Age Group										Total	
	0.2	0.3	1.2	1.3	2.2	1.4	2.3	3.2	2.4			
Sample Period 4: 11 July ^d												
Males				5,169	692	41	651					8,588
Percent	2,035	27.61	3.70	0.22	3.48							45.87
Sample Size	50	127	17	1	16							211
Mean Length	511	608	518	552	582							575
Std. Error	5	4	9		13							3
Sample Size	50	127	17	1	16							211
Females												
Percent	1,994	6,024	1,018		1,099							10,135
Sample Size	10.65	32.17	5.44		5.87							54.13
Mean Length	49	148	25		27							249
Std. Error	510	583	517		581							562
Sample Size	5	3	8		5							2
	49	148	25		27							249
Both Sexes												
Percent	4,029	11,193	1,710		1,750							18,723
Sample Size	21.52	59.78	9.13		9.35							100.00
Mean Length	99	275	42		43							460
Std. Error	510	595	517		581							568
Sample Size	3	2	6		6							2
	99	275	42		43							460

-Continued-

Table 4. (page 5 of 10)

		Age Group										Total
		0.2	0.3	1.2	1.3	2.2	1.4	2.3	3.2	2.4		
Sample Period 5: 13 - 15 July ^a												
Males		830	830	13,273	103,691	3,318	830	11,614			134,386	
Percent		0.22	0.22	3.59	28.03	0.90	0.22	3.14			36.32	
Sample Size		1	1	16	125	4	1	14			162	
Mean Length		443	605	531	614	510	602	598			601	
Std. Error				11	3	15		13			3	
Sample Size		1	1	16	125	4	1	14			162	
Females				41,477	154,293	14,932	1,659	21,568	830		235,589	
Percent				11.21	41.70	4.04	0.45	5.83	0.22		63.68	
Sample Size				50	186	18	2	26	1		284	
Mean Length				514	585	525	633	588	488		569	
Std. Error				4	2	9	22	5			2	
Sample Size				50	186	18	2	26	1		284	
Both Sexes		830	1,660	54,750	257,984	18,250	2,489	33,182	830		369,975	
Percent		0.22	0.45	14.80	69.73	4.93	0.67	8.97	0.22		100.00	
Sample Size		1	2	66	311	22	3	40	1		446	
Mean Length		443	598	518	597	523	622	591	488		581	
Std. Error				4	2	8	22	5			2	
Sample Size		1	2	66	311	22	3	40	1		446	

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Table 4. (page 6 of 10)

	Age Group										Total
	0.2	0.3	1.2	1.3	2.2	1.4	2.3	3.2	2.4		
Sample Period 6: 18 - 20 July ^f											
Males			20,916	74,514	9,804	654	15,033				120,921
Percent			7.03	25.06	3.30	0.22	5.05				40.66
Sample Size			32	114	15	1	23				185
Mean Length			514	601	526	639	591				579
Std. Error			7	3	8		7				2
Sample Size			32	114	15	1	23				185
Females		1,307	23,531	123,535	14,380		13,726				176,479
Percent		0.44	7.91	41.54	4.84		4.62				59.34
Sample Size		2	36	189	22		21				270
Mean Length		574	506	576	533		571				563
Std. Error			5	2	8		4				2
Sample Size		2	36	189	22		21				270
Both Sexes		1,307	44,447	198,049	24,184	654	28,759				297,400
Percent		0.44	14.95	66.59	8.13	0.22	9.67				100.00
Sample Size		2	68	303	37	1	44				455
Mean Length		574	510	585	530	639	581				569
Std. Error			4	2	6		4				1
Sample Size		2	68	303	37	1	44				455

-Continued-

Table 4. (page 7 of 10)

		Age Group										Total
		0.2	0.3	1.2	1.3	2.2	1.4	2.3	3.2	2.4		
Sample Period 7: 22 July ^a												
Males												
Percent		395	13,038	52,944	5,927	1,580	7,507	81,391				
Sample Size		0.22	7.24	29.39	3.29	0.88	4.17	45.18				
Mean Length		1	33	134	15	4	19	206				
Std. Error		628	518	601	528	649	601	584				
Sample Size		1	6	3	9	19	6	2				
			33	134	15	4	19	206				
Females												
Percent		395	13,433	68,353	6,322	395	9,482	98,775				
Sample Size		0.22	7.46	37.94	3.51	0.22	5.26	54.82				
Mean Length		1	34	173	16	1	24	250				
Std. Error		574	508	579	528	593	573	565				
Sample Size		1	5	2	5	6	6	2				
			34	173	16	1	24	250				
Both Sexes												
Percent		790	26,471	121,297	12,249	1,975	16,989	180,166				
Sample Size		0.44	14.69	67.33	6.80	1.10	9.43	100.00				
Mean Length		2	67	307	31	5	43	456				
Std. Error		601	513	589	528	638	585	574				
Sample Size		2	4	2	5	19	4	1				
			67	307	31	5	43	456				

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	1	5	2	10	6	2
Std. Error		17	118	5	15	157
Sample Size						
Females						
Percent	256	3,753	16,375	3,156	1,876	25,587
Sample Size	0.66	9.63	42.01	8.10	4.81	65.64
Mean Length	3	44	192	37	22	300
Std. Error	557	516	575	525	570	560
Sample Size	12	5	2	5	5	1
	3	44	192	37	22	300
Both Sexes						
Percent	341	5,203	26,441	3,582	3,155	38,978
Sample Size	0.87	13.35	67.84	9.19	8.09	100.00
Mean Length	4	61	310	42	37	457
Std. Error	581	518	585	526	581	571
Sample Size	12	4	1	4	4	1
	4	61	310	42	37	457

-Continued-

Table 4. (page 9 of 10)

	Age Group							Total		
	0.2	0.3	1.2	1.3	2.2	1.4	2.3		3.2	2.4
Sample Period 9: 28 July - 12 August ⁱ										
Males										
Percent			3,593	9,296	1,953	234	1,797		78	16,951
Sample Size			10.24	26.50	5.57	0.67	5.12		0.22	48.33
Mean Length			46	119	25	3	23		1	217
Std. Error			519	595	515	646	595		584	570
Sample Size			5	3	7	12	7			2
			46	119	25	3	23		1	217
Females										
Percent			2,890	11,796	859	234	2,109			18,122
Sample Size			8.24	33.63	2.45	0.67	6.01			51.67
Mean Length			37	151	11	3	27			232
Std. Error			525	578	537	620	577			568
Sample Size			4	2	11	13	4			2
			37	151	11	3	27			232
Both Sexes										
Percent			6,483	21,092	2,812	468	3,906		78	35,073
Sample Size			18.48	60.14	8.02	1.33	11.14		0.22	100.00
Mean Length			83	270	36	6	50		1	449
Std. Error			522	586	522	633	585		584	569
Sample Size			3	2	6	9	4			1
			83	270	36	6	50		1	449

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Table 4. (page 10 of 10)

	Age Group										Total
	0.2	0.3	1.2	1.3	2.2	2.3	3.2	2.4			
All Periods Combined:											
Males	830	3,508	83,741	408,816	32,612	57,250	4,639	78	591,474		
Percent	0.06	0.26	6.12	29.90	2.39	4.19	0.34	0.01	43.26		
Sample Size	1	7	276	1,208	111	171	14	1	1,789		
Mean Length	443	608	518	604	522	599	640	584	587		
Std. Error		23	3	1	4	4	12		1		
Sample Size	1	7	276	1,208	111	171	14	1	1,789		
Females											
Percent											
Sample Size											
Mean Length											
Std. Error											
Sample Size											
Both Sexes	830	9,827	196,449	934,652	83,162	132,774	8,197	531	1,367,252		
Percent	0.06	0.72	14.37	68.36	6.08	9.71	0.60	0.04	100.00		
Sample Size	1	23	594	2,684	269	395	24	3	3,994		
Mean Length	443	588	514	591	525	588	632	603	576		
Std. Error		10	2	1	3	2	8		1		
Sample Size	1	23	594	2,684	269	395	24	3	3,994		

^a Drift open district wide 6/27 from 0700-1900. Kasilof section open 6/27 from 1900-2400. Kasilof section open 7/28 0500-2400 on 6/28, 0500-1900 on 6/29. Drift open district wide 7/1 from 0700-1900. Kasilof section open 7/1 1900 to 2300. Mean length in mm.

^b Drift open district wide 7/4 from 0700-1900. Kasilof section open 7/4 from 1900 to 2300, 7/5 and 7/6 from 0500 to 2300. Kenai and Kasilof Sections open 7/11 from 0700-1900.

^c Kenai and Kasilof Sections open 7/13 from 0600-2200. Drift open district wide 7/15 from 0700-1900.

^d Drift open district wide on 7/18. Kenai and Kasilof Sections open 7/20 from 0600-2000.

^e Drift open except north of Collier's Dock latitude 7/22 0700-1900.

^f Kenai and Kasilof Sections open 7/25 from 0500-0700. All of district open from 0700-1900 except north of south end of Kalgain Island. Kenai and Kasilof Sections open 1900-2300 on 7/25. Kenai and Kasilof sections open 7/26 from 0500-2300.

^g Kenai and Kasilof Sections open 7/27 from 1600-2300.

^h Kenai and Kasilof Sections open 7/28 from 0500-1200. All of district open 7/29 except north of south end of Kalgain Island 0700-1900. Kenai and Kasilof Sections open 1900-2300 on 7/29. Kenai and Kasilof Sections open 7/30 from 1600-2300, and 7/31 from 0500-1200. Drift open district wide 8/1 from 0700-1900. Kenai and Kasilof Sections open 8/4 from 0700-2300, and 8/5 from 0500-0700. Drift open district wide 8/5 and 8/8 from 0700-1900. 8/12 incidental catch of sockeye from new pink salmon area.

Table 5. Age, sex and length composition of sockeye salmon in the Coho/Ninilchik Beach commercial set gillnet harvest, Upper Cook Inlet, Alaska, in 2002.

	Age Group										Total	
	0.2	1.1	0.3	1.2	2.1	1.3	2.2	1.4	2.3	3.2		
Sample Period 1: 27 June - 1 July												
Males												
Percent				10,253		24,740	3,789		4,681			43,463
Sample Size				9.85		23.77	3.64		4.50			41.76
Mean Length ^a				46		111	17		21			195
Std. Error				491		576	502		580			550
Sample Size				4		4	9		10			3
				46		111	17		21			195
Females												
Percent				13,596		34,103	5,572		7,355			60,626
Sample Size				13.06		32.76	5.35		7.07			58.24
Mean Length				61		153	25		33			272
Std. Error				490		573	502		567			547
Sample Size				3		2	5		7			2
				61		153	25		33			272
Both Sexes												
Percent				23,849		58,843	9,361		12,036			104,089
Sample Size				22.91		56.53	8.99		11.56			100.00
Mean Length				107		264	42		54			467
Std. Error				490		574	502		572			548
Sample Size				2		2	4		6			2
				107		264	42		54			467

Table 5. (page 2 of 9)

	Age Group										Total	
	0.2	1.1	0.3	1.2	2.1	1.3	2.2	1.4	2.3	3.2		
Sample Period 2: 4 - 6 July												
Males												
Percent	13,795	23,051	5,937	175	1,746	44,704						
Sample Size	18.04	30.14	7.76	0.23	2.28	58.45						
Mean Length	79	132	34	1	10	256						
Std. Error	491	566	504	625	564	535						
Sample Size	3	3	5	1	15	2						
	79	132	34	1	10	256						
Females												
Percent	9,430	18,335	2,096	1,921	31,782							
Sample Size	12.33	23.97	2.74	2.51	41.55							
Mean Length	54	105	12	11	182							
Std. Error	492	557	513	551	534							
Sample Size	3	3	12	11	2							
	54	105	12	11	182							
Both Sexes												
Percent	23,225	41,386	8,033	175	3,667	76,486						
Sample Size	30.37	54.11	10.50	0.23	4.79	100.00						
Mean Length	133	237	46	1	21	438						
Std. Error	491	562	507	625	557	535						
Sample Size	2	2	5	1	9	1						
	133	237	46	1	21	438						

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Table 5. (page 3 of 9)

	Age Group										Total	
	0.2	1.1	0.3	1.2	2.1	1.3	2.2	1.4	2.3	3.2		
Sample Period 3: 8 July												
Males												
Percent	2,723			1,171	2,270	1,744			311			7,048
Sample Size	23.89			10.27	19.92	15.30			2.73			61.84
Mean Length	114			49	95	73			13			295
Std. Error	485			551	565	482			561			513
Sample Size	2			4	4	3			13			2
	114			95	95	73			13			295
Females												
Percent	1,816			1,099					263			4,349
Sample Size	15.93			9.64					2.31			38.16
Mean Length	76			46					11			182
Std. Error	484			488					551			507
Sample Size	3			3					5			2
	76			49					11			182
Both Sexes												
Percent	4,539			2,843	3,441	2,843			574			11,397
Sample Size	39.83			24.95	30.19	24.95			5.04			100.00
Mean Length	190			119	144	119			24			477
Std. Error	485			484	560	484			557			511
Sample Size	2			2	3	2			8			1
	190			144	144	119			24			477

-Continued-

Table 5. (page 4 of 9)

	Age Group										Total	
	0.2	1.1	0.3	1.2	2.1	1.3	2.2	1.4	2.3	3.2		
Sample Period 4: 10 July ^b												
Males												
Percent	1,854			1,384			680					3,941
Sample Size	17.41			13.00			6.38					37.00
Mean Length	79			59			29					168
Std. Error	476			577			485					513
Sample Size	3			5			5					2
	79			59			29					168
Females												
Percent	3,308			1,900			1,290					6,709
Sample Size	31.06			17.84			12.11					63.00
Mean Length	141			81			55					286
Std. Error	477			554			485					502
Sample Size	2			4			4					2
	141			81			55					286
Both Sexes												
Percent	5,162			3,284			1,970					10,650
Sample Size	48.47			30.84			18.50					100.00
Mean Length	220			140			84					454
Std. Error	476			564			485					506
Sample Size	1			3			3					1
	220			140			84					454

-Continued-

Table 5. (page 5 of 9)

	Age Group										Total
	0.2	1.1	0.3	1.2	2.1	1.3	2.2	1.4	2.3	3.2	
Sample Period 5: 11 - 17 July ^c											
Males											
Percent				22,152		29,262	9,298	547	5,470		66,729
Sample Size			17.38		22.96	7.30	0.43		4.29		52.36
Mean Length			81		107	34	2		20		244
Std. Error			487		588	483	633		580		539
Sample Size			3		4	4	13		10		2
			81		107	34	2		20		244
Females											
Percent			19,417		29,263	9,298	273		2,461		60,712
Sample Size			15.24		22.96	7.30	0.21		1.93		47.64
Mean Length			71		107	34	1		9		222
Std. Error			489		571	492	640		578		533
Sample Size			4		3	6			10		2
			71		107	34	1		9		222
Both Sexes											
Percent			41,569		58,525	18,596	820		7,931		127,441
Sample Size			32.62		45.92	14.59	0.64		6.22		100.00
Mean Length			152		214	68	3		29		466
Std. Error			488		579	488	635		579		536
Sample Size			2		3	4	13		8		2
			152		214	68	3		29		466

-Continued-

Table 5. (page 6 of 9)

		Age Group										Total
		0.2	1.1	0.3	1.2	2.1	1.3	2.2	1.4	2.3	3.2	Total
Sample Period 6: 18 - 22 July												
Males	246		14,251				20,640	11,057	737	2,703		49,634
Percent	0.21		12.34				17.87	9.57	0.64	2.34		42.98
Sample Size	1		58				84	45	3	11		202
Mean Length	427		456				579	476	587	568		520
Std. Error			4				4	4	31	10		2
Sample Size	1		58				84	45	3	11		202
Females	246		15,480				36,610	8,109		5,406		65,851
Percent	0.21		13.40				31.70	7.02		4.68		57.02
Sample Size	1		63				149	33		22		268
Mean Length	346		466				553	482		552		523
Std. Error			4				2	5		7		2
Sample Size	1		63				149	33		22		268
Both Sexes	246		29,731				57,250	19,166	737	8,109		115,485
Percent	0.21		25.74				49.57	16.60	0.64	7.02		100.00
Sample Size	1		121				233	78	3	33		470
Mean Length	427		461				562	478	587	557		521
Std. Error			3				2	3	31	6		1
Sample Size	1		121				233	78	3	33		470

-Continued-

Table 5. (page 7 of 9)

	Age Group										Total
	0.2	1.1	0.3	1.2	2.1	1.3	2.2	1.4	2.3	3.2	
Sample Period	7: 25 - 30 July										
Males	142	10,072	709	13,052	6,526	851	3,830	142	35,324		
Percent	0.22	15.74	1.11	20.40	10.20	1.33	5.99	0.22	55.21		
Sample Size	1	71	5	92	46	6	27	1	249		
Mean Length	310	483	358	578	488	628	566	531	529		
Std. Error		4	11	4	5	6	9		2		
Sample Size	1	71	5	92	46	6	27	1	249		
Females	142	6,668	284	11,348	6,809	426	2,695	142	28,656		
Percent	0.22	10.42	0.44	17.74	10.64	0.67	4.21	0.22	44.79		
Sample Size	1	47	2	80	48	3	19	1	202		
Mean Length	295	476	403	561	499	566	561	535	524		
Std. Error		4	8	3	5	28	9		2		
Sample Size	1	47	2	80	48	3	19	1	202		
Both Sexes	284	16,740	993	24,400	13,335	1,277	6,525	284	63,980		
Percent	0.44	26.16	1.55	38.14	20.84	2.00	10.20	0.44	100.00		
Sample Size	2	118	7	172	94	9	46	2	451		
Mean Length	303	481	370	571	493	608	564	533	527		
Std. Error		3	8	3	4	10	6		2		
Sample Size	2	118	7	172	94	9	46	2	451		

-Continued-

Table 5. (page 8 of 9)

	Age Group										Total	
	0.2	1.1	0.3	1.2	2.1	1.3	2.2	1.4	2.3	3.2		
Sample Period 8: 1 - 5 August												
Males		42		1,406	42	1,281	1,344	21	378		4,514	
Percent		0.59		19.87	0.59	18.10	18.99	0.30	5.34		63.79	
Sample Size		2		67	2	61	64	1	18		215	
Mean Length		337		477	338	568	480	542	545		507	
Std. Error		27		4	11	5	4		9		2	
Sample Size		2		67	2	61	64	1	18		215	
Females	21		21	609	21	924	735	21	210		2,562	
Percent	0.30		0.30	8.61	0.30	13.06	10.39	0.30	2.97		36.21	
Sample Size	1		1	29	1	44	35	1	10		122	
Mean Length	366		530	473	356	546	477	552	545		506	
Std. Error				6		4	5		9		3	
Sample Size	1		1	29	1	44	35	1	10		122	
Both Sexes	21	42	21	2,015	63	2,205	2,079	42	588		7,076	
Percent	0.30	0.59	0.30	28.48	0.89	31.16	29.38	0.59	8.31		100.00	
Sample Size	1	2	1	96	3	105	99	2	28		337	
Mean Length	366	337	530	476	344	559	479	547	545		506	
Std. Error		27		3	11	3	3		6		2	
Sample Size	1	2	1	96	3	105	99	2	28		337	

-Continued-

Table 5. (page 9 of 9)

	Age Group										Total
	0.2	1.1	0.3	1.2	2.1	1.3	2.2	1.4	2.3	3.2	
All Periods Combined:											
Males	246	184		76,506	751	115,680	40,375	2,331	19,142	142	255,357
Percent	0.05	0.04		14.81	0.15	22.39	7.82	0.45	3.71	0.03	49.43
Sample Size	1	3		595	7	741	342	13	121	1	1,824
Mean Length	427	316		481	356	578	487	615	573	531	533
Std. Error		27		1	11	2	2	11	5		1
Sample Size	1	3		595	7	741	342	13	121	1	1,824
Females	21	388	163	70,324	305	133,654	35,008	720	20,522	142	261,247
Percent	0.00	0.08	0.03	13.61	0.06	25.87	6.78	0.14	3.97	0.03	50.57
Sample Size	1	2	2	542	3	768	288	5	124	1	1,736
Mean Length	366	327	572	482	399	563	493	594	561	535	531
Std. Error				2	8	1	2	28	4		1
Sample Size	1	2	2	542	3	768	288	5	124	1	1,736
Both Sexes	267	572	163	146,830	1,056	249,334	75,383	3,051	39,664	284	516,604
Percent	0.05	0.11	0.03	28.42	0.20	48.26	14.59	0.59	7.68	0.05	100.00
Sample Size	2	5	2	1,137	10	1,509	630	18	245	2	3,560
Mean Length	422	324	572	482	369	570	490	610	567	533	532
Std. Error		27		1	8	1	2	11	3		1
Sample Size	2	5	2	1,137	10	1,509	630	18	245	2	3,560

¹ Mean length in mm.

² Kasilof Section set gillnets were restricted to that portion of the Kasilof Section within 1/2 mile of the mean high tide mark on July 10 from 0700-1900.

³ Kasilof Section set gillnets were restricted to that portion of the Kasilof Section within 1/2 mile of the mean high tide mark on July 17 from 0400-1200.

Table 6. Age, sex and length composition of sockeye salmon in the North Kalifornsky Beach commercial set gillnet harvest, Upper Cook Inlet, Alaska, in 2002.

	Age Group							Total	
	1.1	0.3	1.2	2.1	1.3	2.2	1.4		2.3
Sample Period 1: 8 July									
Males			963		981	468		119	2,531
Percent			22.34		22.76	10.86		2.76	58.72
Sample Size			105		107	51		13	276
Mean Length ^a			484		575	485		542	522
Std. Error			2		4	3		11	2
Sample Size			105		107	51		13	276
Females			477		999	202		92	1,779
Percent			11.07		23.18	4.69		2.13	41.28
Sample Size			52		109	22		10	194
Mean Length			484		562	495		546	533
Std. Error			3		3	5		10	2
Sample Size			52		109	22		10	194
Both Sexes			1,440		1,980	670		211	4,310
Percent			33.41		45.94	15.55		4.90	100.00
Sample Size			157		216	73		23	470
Mean Length			484		568	488		544	526
Std. Error			2		2	3		8	1
Sample Size			157		216	73		23	470

Table 6. (page 2 of 7)

	Age Group							Total	
	1.1	0.3	1.2	2.1	1.3	2.2	1.4		2.3
Sample Period 2: 11 - 15 July									
Males									
Percent		6,650			8,527	4,068		1,174	20,419
Sample Size		18.20			23.34	11.13		3.21	55.89
Mean Length		85			109	52		15	261
Std. Error		485			584	486		579	532
Sample Size		3			4	3		12	2
		85			109	52		15	261
Females									
Percent		5,476			7,198	1,799		1,643	16,116
Sample Size		14.99			19.70	4.92		4.50	44.11
Mean Length		70			92	23		21	206
Std. Error		487			562	498		553	529
Sample Size		2			3	6		7	2
		70			92	23		21	206
Both Sexes									
Percent		12,126			15,725	5,867		2,817	36,535
Sample Size		33.19			43.04	16.06		7.71	100.00
Mean Length		155			201	75		36	467
Std. Error		486			574	490		564	531
Sample Size		2			3	3		6	1
		155			201	75		36	467

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Table 6. (page 3 of 7)

		Age Group							Total	
		1.1	0.3	1.2	2.1	1.3	2.2	1.4	2.3	Total
Sample Period 3: 18 - 20 July										
Males										
Percent				7,139		15,427	4,030		1,267	27,863
Sample Size				13.19		28.51	7.45		2.34	51.49
Mean Length				62		134	35		11	242
Std. Error				506		601	499		592	562
Sample Size				3		3	5		14	2
				62		134	35		11	242
Females										
Percent		115		3,915		17,962	1,727		2,533	26,252
Sample Size		0.21		7.23		33.19	3.19		4.68	48.51
Mean Length		1		34		156	15		22	228
Std. Error		579		505		581	518		573	565
Sample Size		1		5		2	5		5	2
				34		156	15		22	228
Both Sexes										
Percent		115		11,054		33,389	5,757		3,800	54,115
Sample Size		0.21		20.43		61.70	10.64		7.02	100.00
Mean Length		1		96		290	50		33	470
Std. Error		579		506		591	505		579	563
Sample Size		1		3		2	4		6	1
				96		290	50		33	470

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Table 6. (page 4 of 7)

	Age Group							Total	
	1.1	0.3	1.2	2.1	1.3	2.2	1.4		2.3
Sample Period 4: 22 - 26 July									
Males									
Percent		3,790			5,937	3,348	63	884	14,022
Sample Size		12.77			20.00	11.28	0.21	2.98	47.23
Mean Length		60			94	53	1	14	222
Std. Error		483			592	494	582	555	537
Sample Size		4			4	4	1	14	2
		60			94	53	1	14	222
Females									
Percent		2,779			9,916	1,832	63	1,074	15,664
Sample Size		9.36			33.40	6.17	0.21	3.62	52.77
Mean Length		44			157	29	1	17	248
Std. Error		490			570	515	631	569	550
Sample Size		4			2	6	1	7	2
		44			157	29	1	17	248
Both Sexes									
Percent		6,569			15,853	5,180	126	1,958	29,686
Sample Size		22.13			53.40	17.45	0.42	6.60	100.00
Mean Length		104			251	82	2	31	470
Std. Error		486			579	501	607	563	544
Sample Size		3			2	3	2	7	1
		104			251	82	2	31	470

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Table 6. (page 5 of 7)

	Age Group							Total	
	1.1	0.3	1.2	2.1	1.3	2.2	1.4		2.3
Sample Period 5: 27 - 30 July									
Males									
Percent	25		1,492		2,462	821	25	522	5,322
Sample Size	0.21		12.66		20.88	6.96	0.21	4.43	45.14
Mean Length	1		60		99	33	1	21	214
Std. Error	333		506		597	498	594	587	555
Sample Size			4		3	5		7	2
			60		99	33	1	21	214
Females									
Percent	25		1,293	75	3,333	1,169	25	547	6,467
Sample Size	0.21		10.97	0.64	28.27	9.92	0.21	4.64	54.86
Mean Length	1		52	3	134	47	1	22	260
Std. Error	333		497	400	571	510	596	570	542
Sample Size			4	10	2	5		7	2
	1		52	3	134	47	1	22	260
Both Sexes									
Percent	25		2,785	75	5,795	1,990	50	1,069	11,789
Sample Size	0.21		23.62	0.64	49.16	16.88	0.42	9.07	100.00
Mean Length	1		112	3	233	80	2	43	474
Std. Error	333		502	400	582	505	595	579	548
Sample Size			3	10	2	4		5	1
	1		112	3	233	80	2	43	474

-Continued-

Table 6. (page 6 of 7)

	Age Group							Total	
	1.1	0.3	1.2	2.1	1.3	2.2	1.4		2.3
Sample Period 6: 31 July - 5 August									
Males			604	29	1,188	204	10	224	2,259
Percent			13.58	0.65	26.70	4.59	0.22	5.03	50.78
Sample Size			62	3	122	21	1	23	232
Mean Length			509	406	601	501	598	581	563
Std. Error			5	11	3	9		7	2
Sample Size			62	3	122	21	1	23	232
Females			370		1,372	185		263	2,190
Percent			8.32		30.84	4.16		5.91	49.22
Sample Size			38		141	19		27	225
Mean Length			509		568	524		565	554
Std. Error			5		2	7		6	2
Sample Size			38		141	19		27	225
Both Sexes			974	29	2,560	389	10	487	4,449
Percent			21.89	0.65	57.54	8.74	0.22	10.95	100.00
Sample Size			100	3	263	40	1	50	457
Mean Length			509	406	583	512	598	573	559
Std. Error			4	11	2	6		5	1
Sample Size			100	3	263	40	1	50	457

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Table 6. (page 7 of 7)

		Age Group							Total	
		1.1	0.3	1.2	2.1	1.3	2.2	1.4	2.3	Total
All Periods Combined:										
Males										
Percent	25	115	14,310	75	40,780	6,914	97	68,468		
Sample Size	0.02	0.08	10.16	0.05	28.95	4.91	0.07	48.60		
Mean Length	1	1	290	3	789	155	3	1,361		
Std. Error	333	579	494	400	573	510	620	550		
Sample Size	1	1	2	10	1	3	3	1		
			290	3	789	155	119	1,361		
Both Sexes										
Percent	25	115	34,948	104	75,302	19,853	195	140,884		
Sample Size	0.02	0.08	24.81	0.07	53.45	14.09	0.14	100.00		
Mean Length	1	1	724	6	1,454	400	6	2,808		
Std. Error	333	579	494	402	583	499	603	548		
Sample Size	1	1	1	8	1	2	3	1		
			724	6	1,454	400	6	2,808		

^a Mean length in mm.

Table 7. Age, sex and length composition of sockeye salmon in the South Kalifonsky Beach commercial set gillnet harvest, Upper Cook Inlet, Alaska, in 2002.

	Age Group							Total		
	1.1	0.3	1.2	2.1	0.4	1.3	2.2		1.4	2.3
Sample Period 1: 27 June - 1 July										
Males			1,776			4,410	613		429	7,228
Percent			12.42			30.83	4.29		3.00	50.54
Sample Size			58			144	20		14	236
Mean Length ^a			506			584	504		569	557
Std. Error			4			3	8		11	2
Sample Size			58			144	20		14	236
Females		31	919			5,052	337		735	7,074
Percent		0.22	6.43			35.32	2.36		5.14	49.46
Sample Size		1	30			165	11		24	231
Mean Length		591	498			568	510		584	558
Std. Error			5			2	8		6	2
Sample Size		1	30			165	11		24	231
Both Sexes		31	2,695			9,462	950		1,164	14,302
Percent		0.22	18.84			66.16	6.64		8.14	100.00
Sample Size		1	88			309	31		38	467
Mean Length		591	503			576	506		579	558
Std. Error			3			2	6		5	2
Sample Size		1	88			309	31		38	467

Table 7. (page 4 of 11)

	Age Group								Total	
	1.1	0.3	1.2	2.1	0.4	1.3	2.2	1.4		2.3
Sample Period 4: 10 - 11 July ^b										
Males										
Percent	1,198		646			988	418	57	95	2,756
Sample Size	25.32		13.65			20.88	8.83	1.20	2.01	58.24
Mean Length	63		34			52	22	3	5	145
Std. Error	480		487			594	495	639	600	531
Sample Size	3		4			5	6	6	25	3
	63		34			52	22	3	5	145
Females										
Percent			760				418		152	1,976
Sample Size			16.06				8.83		3.21	41.76
Mean Length			40				22		8	104
Std. Error			574				493		547	527
Sample Size			4				6		11	3
			40				22		8	104
Both Sexes										
Percent	1,844		1,748				836	57	247	4,732
Sample Size	38.97		36.94				17.67	1.20	5.22	100.00
Mean Length	97		92				44	3	13	249
Std. Error	483		586				494	639	567	529
Sample Size	2		4				4	6	12	2
	97		92				44	3	13	249

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Table 7. (page 5 of 11)

	Age Group							Total		
	1.1	0.3	1.2	2.1	0.4	1.3	2.2		1.4	2.3
Sample Period 5: 13 -- 15 July										
Males										
Percent			4,800			10,649	2,625		1,125	19,199
Sample Size			14.19			31.48	7.76		3.33	56.76
Mean Length			64			142	35		15	256
Std. Error			484			596	479		566	550
Sample Size			4			3	5		13	2
			64			142	35		15	256
Females										
Percent			4,125			7,049	2,100	75	1,275	14,624
Sample Size			12.20			20.84	6.21	0.22	3.77	43.24
Mean Length			55			94	28	1	17	195
Std. Error			476			570	490	639	566	532
Sample Size			3			3	6		10	2
			55			94	28	1	17	195
Both Sexes										
Percent			8,925			17,698	4,725	75	2,400	33,823
Sample Size			26.39			52.33	13.97	0.22	7.10	100.00
Mean Length			119			236	63	1	32	451
Std. Error			480			586	484	639	566	543
Sample Size			3			2	4		8	2
			119			236	63	1	32	451

-Continued-

Mean Length	4	4	18	2
Std. Error	81	40	8	219
Sample Size				
Females				
Mean Length	15,183	3,648	2,471	30,011
Std. Error	27.22	6.54	4.43	53.80
Sample Size	129	31	21	255
Both Sexes				
Mean Length	559	478	556	525
Std. Error	2	4	6	1
Sample Size	129	31	21	255
Both Sexes				
Mean Length	24,716	8,356	3,413	55,785
Std. Error	44.31	14.98	6.12	100.00
Sample Size	210	71	29	474
Mean Length	566	473	556	518
Std. Error	2	3	7	1
Sample Size	210	71	29	474

-Continued-

Table 7. (page 7 of 11)

	Age Group							Total		
	1.1	0.3	1.2	2.1	0.4	1.3	2.2		1.4	2.3
Sample Period 7: 20 - 22 July										
Males										
Percent	3,519		2,674	5,161	1,267	1,079	11,026			
Sample Size	16.03		12.18	23.50	5.77	4.91	50.21			
Mean Length	75		57	110	27	23	235			
Std. Error	482		479	599	510	592	551			
Sample Size	3		4	3	7	8	2			
	75		57	110	27	23	235			
Females										
Percent	2,674		1,408	5,255	1,408	1,548	10,932			
Sample Size	12.18		6.41	23.93	6.41	7.05	49.79			
Mean Length	57		30	112	30	33	233			
Std. Error	479		499	580	499	586	546			
Sample Size	4		6	3	6	4	2			
	57		30	112	30	33	233			
Both Sexes										
Percent	6,193		2,675	10,416	2,675	2,627	21,958			
Sample Size	28.20		12.18	47.44	12.18	11.96	100.00			
Mean Length	132		57	222	57	56	468			
Std. Error	481		504	589	504	589	548			
Sample Size	2		4	2	4	4	1			
	132		57	222	57	56	468			

-Continued-

Table 7. (page 8 of 11)

	Age Group							Total		
	1.1	0.3	1.2	2.1	0.4	1.3	2.2		1.4	2.3
Sample Period 8: 25 - 26 July										
Males										
Percent			2,508	34		4,124	1,512	34	653	8,865
Sample Size			15.63	0.21		25.70	9.42	0.21	4.07	55.24
Mean Length			73	1		120	44	1	19	258
Std. Error			482	411		586	489	617	584	539
Sample Size			4	1		3	4	1	10	2
			73			120	44	1	19	258
Females										
Percent			1,306	34		4,193	893		756	7,182
Sample Size			8.14	0.21		26.13	5.56		4.71	44.76
Mean Length			38	1		122	26		22	209
Std. Error			485	370		571	512		569	547
Sample Size			4	1		2	5		7	2
			38			122	26		22	209
Both Sexes										
Percent			3,814	68		8,317	2,405	34	1,409	16,047
Sample Size			23.77	0.42		51.83	14.99	0.21	8.78	100.00
Mean Length			111	2		242	70	1	41	467
Std. Error			483	391		578	498	617	576	542
Sample Size			3	2		2	3		6	1
			111			242	70	1	41	467

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Table 7. (page 9 of 11)

		Age Group										Total
		1.1	0.3	1.2	2.1	0.4	1.3	2.2	1.4	2.3		
Sample Period 9: 27 - 30 July												
Males		24		1,327	24		1,859	1,158	48	338	4,778	
Percent		0.22		12.14	0.22		17.01	10.59	0.44	3.09	43.71	
Sample Size		1		55	1		77	48	2	14	198	
Mean Length		316		461	384		567	481	590	577	516	
Std. Error				6			4	5	5	8	3	
Sample Size		1		55	1		77	48	2	14	198	
Females				1,882	24		2,196	1,593	72	386	6,153	
Percent				17.22	0.22		20.09	14.57	0.66	3.53	56.29	
Sample Size				78	1		91	66	3	16	255	
Mean Length				456	402		549	477	586	535	501	
Std. Error				4			2	3	19	9	2	
Sample Size				78	1		91	66	3	16	255	
Both Sexes		24		3,209	48		4,055	2,751	120	724	10,931	
Percent		0.22		29.36	0.44		37.10	25.17	1.10	6.62	100.00	
Sample Size		1		133	2		168	114	5	30	453	
Mean Length		316		458	393		558	478	588	555	507	
Std. Error				3			2	3	12	6	2	
Sample Size		1		133	2		168	114	5	30	453	

-Continued-

Table 7. (page 10 of 11)

	Age Group										Total
	1.1	0.3	1.2	2.1	0.4	1.3	2.2	1.4	2.3		
Sample Period 10: 31 July - 5 August											
Males	14		696	14		654	515		125		2,018
Percent	0.29		14.29	0.29		13.43	10.57		2.57		41.43
Sample Size	1		50	1		47	37		9		145
Mean Length	368		478	376		566	473		545		508
Std. Error			5			6	5		17		3
Sample Size	1		50	1		47	37		9		145
Females	28		863	28		738	1,043		153		2,853
Percent	0.57		17.72	0.57		15.15	21.41		3.14		58.57
Sample Size	2		62	2		53	75		11		205
Mean Length	331		473	367		541	475		528		492
Std. Error	13		3	37		4	3		11		2
Sample Size	2		62	2		53	75		11		205
Both Sexes	42		1,559	42		1,392	1,558		278		4,871
Percent	0.86		32.01	0.86		28.58	31.99		5.71		100.00
Sample Size	3		112	3		100	112		20		350
Mean Length	343		475	370		552	474		535		498
Std. Error	13		3	37		4	2		10		2
Sample Size	3		112	3		100	112		20		350

-Continued-

Table 7. (page 11 of 11)

	Age Group										Total
	1.1	0.3	1.2	2.1	0.4	1.3	2.2	1.4	2.3		
All Periods Combined:											
Males	38		38,330	72		50,112	16,110	250	6,604		111,516
Percent	0.02		17.56	0.03		22.96	7.38	0.11	3.03		51.09
Sample Size	2		724	3		988	326	8	138		2,189
Mean Length	335		478	395		581	483	628	570		531
Std. Error			1			1	2	4	4		1
Sample Size	2		724	3		988	326	8	138		2,189
Females	28	31	29,056	86	64	53,896	14,021	312	9,263		106,757
Percent	0.01	0.01	13.31	0.04	0.03	24.69	6.42	0.14	4.24		48.91
Sample Size	2	1	559	4	1	1,036	331	6	182		2,122
Mean Length	331	591	478	378	611	562	485	612	563		529
Std. Error	13		1	37		1	2	19	3		1
Sample Size	2	1	559	4	1	1,036	331	6	182		2,122
Both Sexes	66	31	67,386	158	64	104,008	30,131	562	15,867		218,273
Percent	0.03	0.01	30.87	0.07	0.03	47.65	13.80	0.26	7.27		100.00
Sample Size	4	1	1,283	7	1	2,024	657	14	320		4,311
Mean Length	333	591	478	386	611	571	484	619	566		530
Std. Error	13		1	37		1	1	6	2		1
Sample Size	4	1	1,283	7	1	2,024	657	14	320		4,311

^a Mean length in mm.

^b Kasilof Section set gillnets were restricted to that portion of the Kasilof Section within 1/2 mile of the mean high tide mark on July 10 from 0700-1900.

^c Kasilof Section set gillnets were restricted to that portion of the Kasilof Section within 1/2 mile of the mean high tide mark on July 17 from 0400-1200.

Table 8. Age, sex and length composition of sockeye salmon in the combined Kalifonsky Beach commercial set gillnet harvest, Upper Cook Inlet, Alaska, in 2002.

	Age Group							Total		
	1.1	0.3	1.2	2.1	0.4	1.3	2.2		1.4	2.3
Sample Period 1: 27 June - 8 July										
Males			14,298			18,558	4,939	80	2,310	40,185
Percent			19.21			24.93	6.64	0.11	3.10	53.99
Sample Size			359			466	124	2	58	1,009
Mean Length ^a			488			572	489	643	558	531
Std. Error			1			2	2	6	5	1
Sample Size			359			466	124	2	58	1,009
Females		40	8,523		40	20,072	2,987	40	2,549	34,251
Percent		0.05	11.45		0.05	26.97	4.01	0.05	3.42	46.01
Sample Size		1	214		1	504	75	1	64	860
Mean Length		591	487		611	559	488	608	561	535
Std. Error		1	1		1	1	3	1	5	1
Sample Size		1	214		1	504	75	1	64	860
Both Sexes		40	22,821		40	38,630	7,926	120	4,859	74,436
Percent		0.05	30.66		0.05	51.90	10.65	0.16	6.53	100.00
Sample Size		1	573		1	970	199	3	122	1,869
Mean Length		591	488		611	565	488	631	560	533
Std. Error		1	1		1	1	2	6	4	1
Sample Size		1	573		1	970	199	3	122	1,869

Table 8. (page 2 of 7)

	Age Group							Total	
	1.1	0.3	1.2	2.1	0.4	1.3	2.2		1.4
Sample Period 2: 10 - 15 July									
Males									
Percent	13,641		18.17		19,496	7,014	193	2,252	42,596
Sample Size	212		483		25.96	9.34	0.26	3.00	56.73
Mean Length	2		2		303	109	3	35	662
Std. Error	212		2		592	486	6	576	539
Sample Size					303	109	3	35	662
Females									
Percent	10,231		13.62		14,542	4,697	64	2,960	32,494
Sample Size	159		483		19.37	6.26	0.09	3.94	43.27
Mean Length	2		2		226	73	1	46	505
Std. Error	159		2		568	493	639	557	530
Sample Size					226	73	1	5	505
Both Sexes									
Percent	23,872		31.79		34,038	11,711	257	5,212	75,090
Sample Size	371		483		45.33	15.60	0.34	6.94	100.00
Mean Length	1		1		529	182	4	81	1,167
Std. Error	371		2		581	489	639	565	535
Sample Size					2	2	6	5	1
					529	182	4	81	1,167

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Table 8. (page 3 of 7)

	Age Group							Total		
	1.1	0.3	1.2	2.1	0.4	1.3	2.2		1.4	2.3
Sample Period 3: 17 - 20 July										
Males			19,449			27,511	9,597		2,431	58,988
Percent			16.10			22.78	7.95		2.01	48.83
Sample Size			152			215	75		19	461
Mean Length			481			593	483		577	537
Std. Error			3			2	3		12	2
Sample Size			152			215	75		19	461
Females		128	13,691			36,468	5,886	128	5,502	61,803
Percent		0.11	11.33			30.19	4.87	0.11	4.55	51.17
Sample Size		1	107			285	46	1	43	483
Mean Length		579	483			571	491	616	565	544
Std. Error			3			2	4		4	1
Sample Size		1	107			285	46	1	43	483
Both Sexes		128	33,140			63,979	15,483	128	7,933	120,791
Percent		0.11	27.44			52.97	12.82	0.11	6.57	100.00
Sample Size		1	259			500	121	1	62	944
Mean Length		579	482			580	486	616	569	541
Std. Error			2			1	3		5	1
Sample Size		1	259			500	121	1	62	944

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Table 8. (page 4 of 7)

	Age Group								Total		
	1.1	0.3	1.2	2.1	0.4	1.3	2.2	1.4		2.3	
Sample Period 4: 22 - 25 July											
Males											
Percent			6,822	33		10,625	4,067	66		1,837	23,450
Sample Size			14.80	0.07		23.06	8.83	0.14		3.99	50.89
Mean Length			208	1		324	124	2		56	715
Std. Error			482	411		592	496	600		580	542
Sample Size			2	1		2	3	18		6	1
			208			324	124	2		56	715
Females											
Percent			4,559	33		12,823	2,788	66		2,361	22,630
Sample Size			9.89	0.07		27.83	6.05	0.14		5.12	49.11
Mean Length			139	1		391	85	2		72	690
Std. Error			484	370		573	509	614		577	547
Sample Size			2	1		1	3	17		3	1
			139			391	85	2		72	690
Both Sexes											
Percent			11,381	66		23,448	6,855	132		4,198	46,080
Sample Size			24.70	0.14		50.89	14.88	0.29		9.11	100.00
Mean Length			347	2		715	209	4		128	1,405
Std. Error			483	391		582	501	607		578	545
Sample Size			2	2		1	2	12		3	1
			347			715	209	4		128	1,405

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Std. Error	1	4	3	4	3	5	2
Sample Size	36	115	176	81	3	35	412
Females	0.11	4,690	8,117	4,076	144	1,371	18,578
Percent	1	14.03	24.27	12.19	0.43	4.10	55.56
Sample Size	333	130	225	113	4	38	515
Mean Length	1	472	562	491	589	556	522
Std. Error	3	3	2	3	14	6	1
Sample Size	1	130	225	113	4	38	515
Both Sexes	72	8,838	14,466	6,998	252	2,634	33,440
Percent	0.22	26.43	43.26	20.93	0.75	7.88	100.00
Sample Size	2	245	401	194	7	73	927
Mean Length	325	478	572	489	590	569	528
Std. Error	3	3	2	2	8	4	1
Sample Size	2	245	401	194	7	73	927

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Table 8. (page 6 of 7)

		Age Group										Total
		1.1	0.3	1.2	2.1	0.4	1.3	2.2	1.4	2.3		
Sample Period 6: 31 July - 5 August												
Males	12				46		1,951	670	12	370	4,354	
Percent	0.13			13.87	0.49		20.93	7.19	0.13	3.97	46.72	
Sample Size	1			112	4		169	58	1	32	377	
Mean Length	368			495	398		591	483	598	571	541	
Std. Error				4	11		3	5		8	2	
Sample Size	1			112	4		169	58	1	32	377	
Females	23			1,155	23		2,240	1,086		439	4,966	
Percent	0.25			12.39	0.25		24.03	11.65		4.71	53.28	
Sample Size	2			100	2		194	94		38	430	
Mean Length	331			487	367		561	485		554	524	
Std. Error	13			3	37		2	3		6	2	
Sample Size	2			100	2		194	94		38	430	
Both Sexes	35			2,448	69		4,191	1,756	12	809	9,320	
Percent	0.38			26.27	0.74		44.97	18.84	0.13	8.68	100.00	
Sample Size	3			212	6		363	152	1	70	807	
Mean Length	343			491	388		575	484	598	562	532	
Std. Error	13			3	14		2	3		5	1	
Sample Size	3			212	6		363	152	1	70	807	

-Continued-

Table 8. (page 7 of 7)

		Age Group										Total
		1.1	0.3	1.2	2.1	0.4	1.3	2.2	1.4	2.3		
All Periods Combined:												
Males	48	59,651	115	84,490	29,209	459	10,463	184,435				
Percent	0.01	16.61	0.03	23.52	8.13	0.13	2.91	51.35				
Sample Size	2	1,158	6	1,653	571	11	235	3,636				
Mean Length	329	484	397	587	487	622	574	537				
Std. Error		1	11	1	1	4	4	1				
Sample Size	2	1,158	6	1,653	571	11	235	3,636				
Females	59	42,849	200	94,262	21,520	442	15,182	174,722				
Percent	0.02	11.93	0.06	26.25	5.99	0.12	4.23	48.65				
Sample Size	3	849	7	1,825	486	9	301	3,483				
Mean Length	332	483	392	567	493	609	563	537				
Std. Error	13	1	8	1	2	11	2	1				
Sample Size	3	849	7	1,825	486	9	301	3,483				
Both Sexes	107	102,500	315	178,752	50,729	901	25,645	359,157				
Percent	0.03	28.54	0.09	49.77	14.12	0.25	7.14	100.00				
Sample Size	5	2,007	13	3,478	1,057	20	536	7,119				
Mean Length	331	484	394	577	489	616	568	537				
Std. Error	13	1	7	1	1	4	2	0				
Sample Size	5	2,007	13	3,478	1,057	20	536	7,119				

* 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, in 2002.

	Age Group								Total		
	0.2	1.1	0.3	1.2	2.1	1.3	2.2	1.4		2.3	3.2
Sample Period 1: 8 July											
Males											
Percent			75	971		14,341	224	75	1,494		17,180
Sample Size			0.21	2.73		40.33	0.63	0.21	4.20		48.32
Mean Length ^a			1	13		192	3	1	20		230
Std. Error			618	498		613	541	618	613		606
Sample Size			1	11		2	23	1	5		2
				13		192	3	1	20		230
Females											
Percent				1,793		14,042	896	299	1,270		18,375
Sample Size				5.04		39.49	2.52	0.84	3.57		51.68
Mean Length				24		188	12	4	17		246
Std. Error				505		587	517	621	588		576
Sample Size				7		2	10	11	7		2
				24		188	12	4	17		246
Both Sexes											
Percent			75	2,764		28,383	1,120	374	2,764		35,555
Sample Size			0.21	7.77		79.83	3.15	1.05	7.77		100.00
Mean Length			1	37		380	15	5	37		476
Std. Error			618	502		601	522	621	602		591
Sample Size			1	6		1	9	11	4		1
				37		380	15	5	37		476

Table 9. (page 2 of 6)

	Age Group										Total	
	0.2	1.1	0.3	1.2	2.1	1.3	2.2	1.4	2.3	3.2		
Sample Period 2: 11 - 15 July												
Males												
Percent			268	7,247		48,852	1,611	805	3,758			62,541
Sample Size			0.21	5.81		39.14	1.29	0.64	3.01			50.11
Mean Length			1	27		182	6	3	14			233
Std. Error			588	479		600	516	626	604			584
Sample Size			1	8		2	7	13	4			2
				27		182	6	3	14			233
Females												
Percent			268	6,442		45,364	3,489	805	5,637			62,273
Sample Size			0.21	5.16		36.35	2.80	0.64	4.52			49.89
Mean Length			1	24		169	13	3	21			232
Std. Error			552	508		576	508	610	574			565
Sample Size			1	7		2	12	6	4			2
				24		169	13	3	21			232
Both Sexes												
Percent			536	13,689		94,216	5,100	1,610	9,395			124,814
Sample Size			0.43	10.97		75.49	4.09	1.29	7.53			100.00
Mean Length			2	51		351	19	6	35			465
Std. Error			570	493		589	511	618	586			575
Sample Size			2	5		1	8	7	3			1
				51		351	19	6	35			465

-Continued-

Table 9. (page 3 of 6)

	Age Group										Total	
	0.2	1.1	0.3	1.2	2.1	1.3	2.2	1.4	2.3	3.2		
Sample Period 3: 18 - 22 July												
Males												
Percent			302	14,481		51,891	2,715	905	6,939			77,233
Sample Size			0.21	10.13		36.29	1.90	0.63	4.85			54.01
Mean Length			1	48		172	9	3	23			256
Std. Error			493	515		602	519	602	604			583
Sample Size			1	6		2	10	15	7			2
				48		172	9	3	23			256
Females												
Percent			302	7,844		46,460	3,922	905	6,336			65,769
Sample Size			0.21	5.49		32.49	2.74	0.63	4.43			45.99
Mean Length			1	26		154	13	3	21			218
Std. Error			603	512		583	530	619	586			573
Sample Size			1	7		2	10	2	4			2
				26		154	13	3	21			218
Both Sexes												
Percent			604	22,325		98,351	6,637	1,810	13,275			143,002
Sample Size			0.42	15.61		68.78	4.64	1.27	9.28			100.00
Mean Length			2	74		326	22	6	44			474
Std. Error			548	514		593	526	611	596			578
Sample Size			2	5		2	7	8	4			1
				74		326	22	6	44			474

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		Age Group										Total
		0.2	1.1	0.3	1.2	2.1	1.3	2.2	1.4	2.3	3.2	Total
Sample Period 4: 25 - 29 July												
Males	208			208	11,627		22,424	5,606	623	2,284		42,980
Percent	0.22			0.22	12.07		23.28	5.82	0.65	2.37		44.61
Sample Size	1			1	56		108	27	3	11		207
Mean Length	449			619	502		598	521	641	598		562
Std. Error				5			3	6	7	5		2
Sample Size	1			1	56		108	27	3	11		207
Females					11,627		28,654	9,343		3,737		53,361
Percent					12.07		29.74	9.70		3.88		55.39
Sample Size					56		138	45		18		257
Mean Length					512		571	522		577		550
Std. Error					4		2	3		6		2
Sample Size					56		138	45		18		257
Both Sexes	208			208	23,254		51,078	14,949	623	6,021		96,341
Percent	0.22			0.22	24.14		53.02	15.52	0.65	6.25		100.00
Sample Size	1			1	112		246	72	3	29		464
Mean Length	449			619	507		583	522	641	585		555
Std. Error				3			2	3	7	4		1
Sample Size	1			1	112		246	72	3	29		464

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Table 9. (page 5 of 6)

	Age Group										Total
	0.2	1.1	0.3	1.2	2.1	1.3	2.2	1.4	2.3	3.2	
Sample Period 5: 30 July - 5 August											
Males		60		3,370	120	7,524	843	60	1,565		13,542
Percent		0.22		12.17	0.43	27.18	3.04	0.22	5.65		48.91
Sample Size		1		56	2	125	14	1	26		225
Mean Length		351		499	381	587	525	580	582		558
Std. Error				6	34	2	6		6		2
Sample Size		1		56	2	125	14	1	26		225
Females				1,625	120	9,329	1,625	120	1,324		14,143
Percent				5.87	0.43	33.70	5.87	0.43	4.78		51.09
Sample Size				27	2	155	27	2	22		235
Mean Length				502	379	565	518	606	560		551
Std. Error				8	17	2	4	34	6		2
Sample Size				27	2	155	27	2	22		235
Both Sexes		60		4,995	240	16,853	2,468	180	2,889		27,685
Percent		0.22		18.04	0.87	60.87	8.91	0.65	10.44		100.00
Sample Size		1		83	4	280	41	3	48		460
Mean Length		351		500	380	575	520	597	572		554
Std. Error				5	19	1	3	34	4		1
Sample Size		1		83	4	280	41	3	48		460

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Table 9. (page 6 of 6)

	Age Group										Total
	0.2	1.1	0.3	1.2	2.1	1.3	2.2	1.4	2.3	3.2	
All Periods Combined:											
Males	208	60	853	37,696	120	145,032	10,999	2,468	16,040	343	213,476
Percent	0.05	0.01	0.20	8.82	0.03	33.93	2.57	0.58	3.75	0.08	49.95
Sample Size	1	1	4	200	2	779	59	11	94	2	1,151
Mean Length	449	351	565	502	381	601	521	620	602	554	579
Std. Error				3	34	1	4	8	3	1	1
Sample Size	1	1	4	200	2	779	59	11	94	2	1,151
Females											
Percent			0.13	6.86	0.03	33.66	4.51	0.50	4.28	0.08	50.05
Sample Size			2	157	2	804	110	12	99	2	1,188
Mean Length			579	510	379	578	521	615	579	554	564
Std. Error				3	17	1	3	3	2	1	1
Sample Size			2	157	2	804	110	12	99	2	1,188
Both Sexes											
Percent	208	60	1,423	67,027	240	288,881	30,274	4,597	34,344	343	427,397
Sample Size	0.05	0.01	0.33	15.68	0.06	67.59	7.08	1.08	8.04	0.08	100.00
Mean Length	1	1	6	357	4	1,583	169	23	193	2	2,339
Std. Error	449	351	570	506	380	590	521	618	590	554	572
Sample Size	1	1	6	357	4	1,583	169	4	193	2	2,339

* 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, in 2002.

	Age Group											Total
	0.2	1.1	0.3	1.2	2.1	1.3	2.2	1.4	2.3	3.2	3.3	
Sample period:	27 May - 29 August											
Males	27		41	1,734	14	1,787	1,030	27	434	14		
Percent	0.26		0.39	16.41	0.13	16.91	9.75	0.26	4.11	0.13		
Sample Size	2		3	128	1	132	76	2	32	1		
Mean Length ^a	491		585	504	413	589	497	596	587	494		
Std. Error	3		16	3		3	4	84	7			
Sample Size	2		3	128	1	132	76	2	32	1		
Females		14	41	1,653	14	1,962	1,233	14	515	14	14	5,474
Percent		0.13	0.39	15.64	0.13	18.57	11.67	0.13	4.87	0.13	0.13	51.80
Sample Size		1	3	122	1	145	91	1	38	1	1	404
Mean Length		412	557	497	413	558	502	523	555	527	573	526
Std. Error			10	3		3	3		5			2
Sample Size		1	3	122	1	145	91	1	38	1	1	404
Both Sexes	27	14	82	3,387	14	3,749	2,263	41	949	28	14	10,568
Percent	0.26	0.13	0.78	32.05	0.13	35.48	21.41	0.39	8.98	0.26	0.13	100.00
Sample Size	2	1	6	250	1	277	167	3	70	2	1	780
Mean Length	491	412	571	501	413	573	500	571	570	511	573	533
Std. Error	3		10	2		2	2	84	4			1
Sample Size	2	1	6	250	1	277	167	3	70	2	1	780

^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, in 2002.

	Age Group						Total
	0.2	0.3	1.2	1.3	2.2	2.3	
Sample period:	27 May - 22 August						
Males	201	604	3,420	4,425	604	1,408	10,662
Percent	0.89	2.68	15.18	19.64	2.68	6.25	47.32
Sample Size	1	3	17	22	3	7	53
Mean Length ^a	456	599	513	602	520	594	565
Std. Error		11	8	7	4	10	4
Sample Size	1	3	17	22	3	7	53
Females		402	3,018	6,237	604	1,609	11,870
Percent		1.78	13.39	27.68	2.68	7.14	52.68
Sample Size		2	15	31	3	8	59
Mean Length		572	515	569	496	568	552
Std. Error		18	4	5	9	10	3
Sample Size		2	15	31	3	8	59
Both Sexes	201	1,006	6,438	10,662	1,208	3,017	22,532
Percent	0.89	4.46	28.57	47.32	5.36	13.39	100.00
Sample Size	1	5	32	53	6	15	112
Mean Length	456	588	514	583	508	580	558
Std. Error		10	5	4	5	7	3
Sample Size	1	5	32	53	6	15	112 ^b

^a Mean length in mm.

^b Due to logistical problems only 112 samples were obtained from the General Subdistrict in 2002. A sample size of less than 405 is not considered statistically sound.

Table 12. Age, sex and length composition of sockeye salmon in the Western Subdistrict commercial set gillnet harvest, Upper Cook Inlet, Alaska in 2002.

	Age Group						Total
	0.3	1.2	1.3	2.2	2.3	3.2	
Sample period:	17 June - 2 September						
Males	74	2,300	12,835	2,819	593	74	18,695
Percent	0.21	6.60	36.81	8.08	1.70	0.21	53.62
Sample Size	1	31	173	38	8	1	252
Mean Length ^a	592	494	549	484	567	471	533
Std. Error		5	2	5	12		2
Sample Size	1	31	173	38	8	1	252
Females		2,967	9,423	2,967	742	74	16,173
Percent		8.51	27.02	8.51	2.13	0.21	46.38
Sample Size		40	127	40	10	1	218
Mean Length		477	526	476	536	488	508
Std. Error		4	2	4	10		1
Sample Size		40	127	40	10	1	218
Both Sexes	74	5,267	22,258	5,786	1,335	148	34,868
Percent	0.21	15.11	63.84	16.59	3.83	0.42	100.00
Sample Size	1	71	300	78	18	2	470
Mean Length	592	484	539	480	550	480	521
Std. Error		3	1	3	8		1
Sample Size	1	71	300	78	18	2	470 ^b

^a Mean length in mm.

^b Samples were taken from "The Brisk", a boat which delivers sockeye harvested from the Harriet Creek area. Age composition would best represent the northern section of the Western Subdistrict and the Kustatan Subdistrict sockeye.

Table 13. Age, sex and length composition of sockeye salmon escapement in Kenai River, Upper Cook Inlet, Alaska, in 2002.

		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:		1 July - 14 August												
Males	392	120,084	3,924	260,969	45,914	785	3,924	29,432	392	785	392	466,993		
Percent	0.04	12.54	0.41	27.24	4.79	0.08	0.41	3.07	0.04	0.08	0.04	48.75		
Sample Size	1	306	10	665	117	2	10	75	1	2	1	1,190		
Mean Length ^a	427	503	375	606	515	383	645	604	542	597	598	568		
Std. Error		3	10	1	4	25	8	3	1	1	1	1		
Sample Size	1	306	10	665	117	2	10	75	2	1	2	1,190		
Females	392	100,462	3,139	298,250	55,725	785	2,747	29,040	392	785	392	490,931		
Percent	0.04	10.49	0.33	31.14	5.82	0.08	0.29	3.03	0.04	0.04	0.04	51.25		
Sample Size	1	256	8	760	142	2	7	74	1	1	1	1,251		
Mean Length	422	502	383	580	513	617	617	579	460	587	587	555		
Std. Error		3	10	1	3	7	7	3	1	1	1	1		
Sample Size	1	256	8	760	142	2	7	74	1	1	1	1,251		
Both Sexes	784	220,546	7,063	559,219	101,639	785	6,671	58,472	784	1,177	784	957,924		
Percent	0.08	23.02	0.74	58.38	10.61	0.08	0.70	6.10	0.08	0.12	0.04	100.00		
Sample Size	2	562	18	1,425	259	2	17	149	2	3	2	2,441		
Mean Length	425	503	379	592	514	383	634	591	501	593	598	562		
Std. Error		2	7	1	2	25	5	2	1	1	1	1		
Sample Size	2	562	18	1,425	259	2	17	149	2	3	2	2,441		

^a Mean length in mm.

Table 14. Age, sex and length composition of sockeye salmon escapement in Hidden Creek, Kenai River drainage, Upper Cook Inlet, Alaska, in 2002.

	Age Group					Total
	1.2	1.3	2.2	2.3	3.3	
Sample period:	10 July - 3 September					
Males	21,078	11,443	2,208	937	67	35,733
Percent	28.93	15.70	3.03	1.29	0.09	49.04
Sample Size	315	171	33	14	1	534
Mean Length ^a	549	586	554	589	617	562
Std. Error	1	1	4	8		1
Sample Size	315	171	33	14	1	534
Females	31,852	2,007	2,944	335		37,138
Percent	43.71	2.75	4.04	0.46		50.96
Sample Size	476	30	44	5		555
Mean Length	529	558	536	560		531
Std. Error	1	4	3	13		1
Sample Size	476	30	44	5		555
Both Sexes	52,930	13,450	5,152	1,272	67	72,871 ^b
Percent	72.64	18.46	7.07	1.75	0.09	100.00
Sample Size	791	201	77	19	1	1,089
Mean Length	537	582	544	582	617	546
Std. Error	1	1	2	7		1
Sample Size	791	201	77	19	1	1,089

^a Mean length in mm.

^b Hidden Creek sockeye return was 72,871, with 849 fish taken for otolith samples, and 39 weir mortalities, resulting in 71,983 sockeye actually escaping into Hidden Lake. CIAA used 884 sockeye for hatchery broodstock, resulting in a lake broodstock total of 71,099.

Table 15. Age, sex and length composition of late-run sockeye salmon escapement in Russian River, Kenai River drainage, Upper Cook Inlet, Alaska, in 2002.

	Age Group						Total	
	1.1	1.2	2.1	1.3	2.2	3.1		2.3
Sample period:	15 July - 10 September							
Males	125	2,993	4,490	2,120	13,721	125	3,617	27,191
Percent	0.20	4.82	7.23	3.41	22.09	0.20	5.82	43.78
Sample Size	1	24	36	17	110	1	29	218
Mean Length ^a	400	501	395	598	516	405	593	510
Std. Error		8	3	5	3		3	2
Sample Size	1	24	36	17	110	1	29	218
Females		3,617		1,621	26,693		2,993	34,924
Percent		5.82		2.61	42.97		4.82	56.22
Sample Size		29		13	214		24	280
Mean length		515		567	511		577	520
Std. Error		4		10	2		7	2
Sample Size		29		13	214		24	280
Both Sexes	125	6,610	4,490	3,741	40,414	125	6,610	62,115
Percent	0.20	10.64	7.23	6.02	65.06	0.20	10.64	100.00
Sample Size	1	53	36	30	324	1	53	498
Mean Length	400	509	395	584	513	405	586	515
Std. Error		4	3	5	2		3	1
Sample Size	1	53	36	30	324	1	53	498

^a Mean length in mm.

Table 16. Age, sex and length composition of sockeye salmon escapement in Kasilof River, Upper Cook Inlet, Alaska, in 2002.

	Age Group								Total
	1.1	1.2	2.1	1.3	2.2	1.4	2.3	2.4	
Sample period:	14 June - 11 August								
Males	34,640	2,431	43,756	15,193	7,597	304	103,921		
Percent	15.28	1.07	19.30	6.70	3.35	0.13	45.84		
Sample Size	114	8	144	50	25	1	342		
Mean Length ^a	486	385	555	480	550	565	516		
Std. Error	2	30	2	4	6		2		
Sample Size	114	8	144	50	25	1	342		
Females	42,237	912	42,540	28,563	7,293		122,761		
Percent	18.63	0.40	18.77	12.60	3.22		54.16		
Sample Size	139	3	140	94	24		404		
Mean Length	476	331	544	470	546		501		
Std. Error	2	10	2	3	6		1		
Sample Size	139	3	140	94	24		404		
Both Sexes	76,877	3,343	86,296	43,756	14,890	304	226,682		
Percent	33.91	1.47	38.07	19.30	6.57	0.13	100.00		
Sample Size	253	11	284	144	49	1	746		
Mean Length	480	370	549	473	548	565	508		
Std. Error	2	22	2	2	4		1		
Sample Size	253	11	284	144	49	1	746		

^a Mean length in mm.

Table 17. Age, sex and length composition of sockeye salmon escapement in Crescent River, Upper Cook Inlet, Alaska, in 2002.

	Age Group							Total
	1.2	2.1	1.3	2.2	1.4	2.3	2.4	
Sample period:	27 June - 29 July							
Males	8,713	84	8,629	4,021		9,048	84	30,579
Percent	13.87	0.13	13.73	6.40		14.40	0.13	48.67
Sample Size	104	1	103	48		108	1	365
Mean Length ^a	471	405	582	492		589	632	540
Std. Error	3		3	6		2		2
Sample Size	104	1	103	48		108	1	365
Females	3,267		12,567	3,016	168	13,236		32,254
Percent	5.20		20.00	4.80	0.27	21.07		51.33
Sample Size	39		150	36	2	158		385
Mean Length	481		563	506	543	563		549
Std. Error	5		2	4		2		1
Sample Size	39		150	36	2	158		385
Both Sexes	11,980	84	21,196	7,037	168	22,284	84	62,833
Percent	19.07	0.13	33.73	11.20	0.27	35.47	0.13	100.00
Sample Size	143	1	253	84	2	266	1	750
Mean Length	474	405	571	498	543	574	632	545
Std. Error	3		2	4		2		1
Sample Size	143	1	253	84	2	266	1	750

^a Mean length in mm.

Table 18. Age, sex and length composition of sockeye salmon escapement in Yentna River, (RM 4.0), Susitna River drainage, Upper Cook Inlet, Alaska, in 2002.

	Age Group							Total	
	0.2	1.1	0.3	1.2	1.3	2.2	2.3		3.3
Sample period:	7 July - 8 August								
Males	856	171	1,027	13,013	19,348	2,740	3,596	171	40,922
Percent	1.09	0.22	1.31	16.56	24.62	3.49	4.58	0.22	52.07
Sample Size	5	1	6	76	113	16	21	1	239
Mean Length ^a	450	336	588	486	596	482	589	615	549
Std. Error	12	21	21	5	3	11	6	2	2
Sample Size	5	1	6	76	113	16	21	1	239
Females	514	342	514	9,588	20,718	1,541	4,452		37,669
Percent	0.65	0.44	0.65	12.20	26.36	1.96	5.66		47.93
Sample Size	3	2	3	56	121	9	26		220
Mean Length	460	351	560	495	561	486	551		536
Std. Error	13	25	25	4	3	9	6		2
Sample Size	3	2	3	56	121	9	26		220
Both Sexes	1,370	513	1,541	22,601	40,066	4,281	8,048	171	78,591
Percent	1.74	0.65	1.96	28.76	50.98	5.45	10.24	0.22	100.00
Sample Size	8	3	9	132	234	25	47	1	459
Mean Length	454	346	579	490	578	483	568	615	543
Std. Error	9	25	16	4	2	7	4		2
Sample Size	8	3	9	132	234	25	47	1	459

^a Mean length in mm.

Table 19. Age, sex and length composition of sockeye salmon escapement in Fish Creek, Upper Cook Inlet, Alaska, in 2002.

	Age Group							Total
	1.1	1.2	2.1	1.3	2.2	3.1	2.3	
Sample period:	9 July - 18 September							
Males	3,000	32,372	1,737	2,053	6,316	158	158	45,794
Percent	3.32	35.78	1.92	2.27	6.98	0.17	0.17	50.61
Sample Size	19	205	11	13	40	1	1	290
Mean Length ^a	358	467	360	539	469	325	490	459
Std. Error	4	3	8	7	8			2
Sample Size	19	205	11	13	40	1	1	290
Females		35,214	158	947	8,053			44,688
Percent		38.92	0.17	1.05	8.90			49.39
Sample Size		223	1	6	51			283
Mean Length		484	405	533	490			486
Std. Error		2		12	4			2
Sample Size		223	1	6	51			283
Both Sexes	3,000	67,586	1,895	3,000	14,369	158	474	90,482
Percent	3.32	74.70	2.09	3.32	15.88	0.17	0.52	100.00
Sample Size	19	428	12	19	91	1	3	573
Mean Length	358	476	364	537	481	325	508	472
Std. Error	4	2	8	6	4			1
Sample Size	19	428	12	19	91	1	3	573

^a Mean length in mm.

Table 20. Age, sex and length composition of sockeye salmon escapement in Cottonwood Creek, Northern District, Upper Cook Inlet, Alaska, in 2002.

	Age Group						Total
	1.1	1.2	2.1	1.3	2.2	2.3	
Sample period:	16 July - 3 September						
Males	63	2,087	83	668	146	42	3,089
Percent	0.92	30.39	1.21	9.73	2.13	0.61	44.98
Sample Size	3	100	4	32	7	2	148
Mean Length ^a	318	462	365	521	456	515	470
Std. Error	2	2	5	4	9	5	2
Sample Size	3	100	4	32	7	2	148
Females		3,068		397	271	42	3,778
Percent		44.68		5.78	3.95	0.61	55.02
Sample Size		147		19	13	2	181
Mean Length		457		503	475	533	464
Std. Error		2		6	5	3	2
Sample Size		147		19	13	2	181
Both Sexes	63	5,155	83	1,065	417	84	6,867
Percent	0.92	75.07	1.21	15.51	6.07	1.22	100.00
Sample Size	3	247	4	51	20	4	329
Mean Length	318	459	365	514	468	524	467
Std. Error	2	1	5	3	5	3	1
Sample Size	3	247	4	51	20	4	329

^a Mean length in mm.

Table 21. Age, sex and length composition of sockeye salmon in the Offshore Test fishery, Upper Cook Inlet, Alaska, in 2002.

	Age Group										Total
	0.2	0.3	1.2	1.3	2.2	1.4	2.3	3.2	2.4		
Sample period:	1 - 31 July										
Males	15	123	491	60	8	87	1	1	1	786	
Percent	1.05	8.63	34.43	4.21	0.56	6.10	0.07	0.07	0.07	55.12	
Sample Size	15	123	491	60	8	87	1	1	1	786	
Mean Length ^a	593	511	594	518	631	586	498	620	620	575	
Std. Error	8	3	2	4	10	3				1	
Sample Size	15	123	491	60	8	87	1	1	1	786	
Females	1	10	446	42	2	89				640	
Percent	0.07	0.70	31.28	2.95	0.14	6.24				44.88	
Sample Size	1	10	446	42	2	89				640	
Mean Length	505	583	573	526	590	573				565	
Std. Error	9	3	1	5	10	3				1	
Sample Size	1	10	446	42	2	89				640	
Both Sexes	1	25	937	102	10	176	1	1	1	1,426	
Percent	0.07	1.75	65.71	7.15	0.70	12.34	0.07	0.07	0.07	100.00	
Sample Size	1	25	937	102	10	176	1	1	1	1,426	
Mean Length	505	589	584	521	623	579	498	620	620	570	
Std. Error	6	2	1	3	8	2				1	
Sample Size	1	25	937	102	10	176	1	1	1	1,426	

^a Mean length in mm.

Table 22. Age, sex and length composition of chinook salmon in the Upper Subdistrict commercial set gillnet harvest Upper Cook Inlet, Alaska, in 2002.

	Age Group							Total
	1.1	0.3	1.2	1.3	1.4	1.5	2.4	
Sample Period	I: 27 June - 10 July							
Males	360	4	300	383	174	4		1,225
Percent	16.39	0.18	13.65	17.43	7.92	0.18		55.76
Sample Size	91	1	76	97	44	1		310
Mean Length ^a	414	910	642	860	1,017	1,105		699
Std. Error	3		8	11	13			5
Sample Size	91	1	76	97	44	1		310
Females	67		415	348	134	8		972
Percent	3.05		18.89	15.84	6.10	0.36		44.24
Sample Size	17		105	88	34	2		246
Mean Length	416		634	844	957	1,095		742
Std. Error	10		7	11	12	30		5
Sample Size	17		105	88	34	2		246
Both Sexes	427	4	715	731	308	12		2,197
Percent	19.44	0.18	32.54	33.27	14.02	0.55		100.00
Sample Size	108	1	181	185	78	3		556
Mean Length	415	910	637	852	991	1,098		718
Std. Error	3		5	8	9	30		3
Sample Size	108	1	181	185	78	3		556

Table 22. (page 2 of 3)

	Age Group							Total
	1.1	0.3	1.2	1.3	1.4	1.5	2.4	
Sample Period 2: 11 July - 5 August								
Males	567		959	1,460	970	33	11	4,000
Percent	7.79		13.17	20.05	13.32	0.45	0.15	54.94
Sample Size	52		88	134	89	3	1	367
Mean Length	428		639	879	1,008	1,095	1,080	791
Std. Error	4		9	8	8	36		4
Sample Size	52		88	134	89	3	1	367
Females	11		1,101	1,286	861	22		3,281
Percent	0.15		15.12	17.66	11.83	0.30		45.06
Sample Size	1		101	118	79	2		301
Mean Length	445		642	874	966	978		819
Std. Error			6	7	6	32		4
Sample Size	1		101	118	79	2		301
Both Sexes	578		2,060	2,746	1,831	55	11	7,281
Percent	7.94		28.29	37.71	25.15	0.76	0.15	100.00
Sample Size	53		189	252	168	5	1	668
Mean Length	428		640	877	989	1,048	1,080	804
Std. Error	4		5	5	5	25		3
Sample Size	53		189	252	168	5	1	668

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Table 22. (page 3 of 3)

	Age Group							Total
	1.1	0.3	1.2	1.3	1.4	1.5	2.4	
All Periods Combined:								
Males	927	4	1,259	1,843	1,144	37	11	5,225
Percent	9.78	0.04	13.28	19.45	12.07	0.39	0.12	55.13
Sample Size	143	1	164	231	133	4	1	677
Mean Length	423	910	640	875	1,010	1,096	1,080	770
Std. Error	3		7	7	7	36		3
Sample Size	143	1	164	231	133	4	1	677
Females	78		1,516	1,634	995	30		4,253
Percent	0.82		15.99	17.24	10.50	0.32		44.87
Sample Size	18		206	206	113	4		547
Mean Length	420		639	867	965	1,009		802
Std. Error	10		5	6	5	25		3
Sample Size	18		206	206	113	4		547
Both Sexes	1,005	4	2,775	3,477	2,139	67	11	9,478
Percent	10.60	0.04	29.28	36.68	22.57	0.71	0.12	100.00
Sample Size	161	1	370	437	246	8	1	1,224
Mean Length	422	910	640	871	989	1,057	1,080	784
Std. Error	3		4	5	5	22		2
Sample Size	161	1	370	437	246	8	1	1,224

^a Mean length in mm.

Table 23. Age, length, and percent female composition of coho salmon, in selected commercial gillnet harvests, Upper Cook Inlet, Alaska, in 2002.

Location	Age Group			Total
	1.1	2.1	3.1	
COMMERCIAL CATCH				
Central District				
Central Drift				
Number	9,009	105,410	11,412	125,831
Percent	7.16	83.77	9.07	100.00
Sample Size	30	351	38	419
Mean Length ^a	537	557	571	557
% Female	33	32	26	32
Upper Subdistrict				
Number	2,094	26,967	6,092	35,153
Percent	5.96	76.71	17.33	100.00
Sample Size	33	425	96	554
Mean Length	539	567	590	569
% Female	39	31	27	31
Northern District				
General Subdistrict				
Number	1,820	31,125	3,549	36,494
Percent	4.99	85.29	9.72	100.00
Sample Size	20	342	39	401
Mean Length	544	553	568	554
% Female	55	48	54	49
Commercial Harvest Total				
Number	12,923	163,502	21,053	197,478
Percent	6.54	82.80	10.66	100.00
Sample Size	83	1,118	173	1,374
Mean Length	538	558	576	558
% Female	37	35	31	35

^a Mean length in mm.

Table 24. Age, sex and length composition of coho salmon in the Central District commercial drift gillnet harvest, Upper Cook Inlet, Alaska, in 2002.

	Age Group			Total
	1.1	2.1	3.1	
Sample period:	27 June - 12 August			
Males	6,006	71,174	8,409	85,589
Percent	4.77	56.56	6.68	68.02
Sample Size	20	237	28	285
Mean Length ^a	522	558	570	556
Std. Error	8	2	9	2
Sample Size	20	237	28	285
Females	3,003	34,236	3,003	40,242
Percent	2.39	27.21	2.39	31.98
Sample Size	10	114	10	134
Mean Length	568	554	575	557
Std. Error	9	3	8	3
Sample Size	10	114	10	134
Both Sexes	9,009	105,410	11,412	125,831
Percent	7.16	83.77	9.07	100.00
Sample Size	30	351	38	419
Mean Length	537	557	571	557
Std. Error	6	2	7	2
Sample Size	30	351	38	419

^a Mean length in mm.

Table 25. Age, sex and length composition of coho salmon in the Upper Subdistrict commercial set gillnet harvest, Upper Cook Inlet, Alaska, in 2002.

	Age Group			Total
	1.1	2.1	3.1	
Sample period:	4 July - 5 August			
Males	1,269	18,655	4,442	24,366
Percent	3.61	53.07	12.64	69.31
Sample Size	20	294	70	384
Mean Length ^a	536	566	590	569
Std. Error	7	2	5	2
Sample Size	20	294	70	384
Females	825	8,312	1,650	10,787
Percent	2.35	23.65	4.69	30.69
Sample Size	13	131	26	170
Mean Length	543	567	589	569
Std. Error	11	3	6	3
Sample Size	13	131	26	170
Both Sexes	2,094	26,967	6,092	35,153
Percent	5.96	76.71	17.33	100.00
Sample Size	33	425	96	554
Mean Length	539	567	590	569
Std. Error	6	2	4	2
Sample Size	33	425	96	554

^a Mean length in mm.

Table 26. Age, sex and length composition of coho salmon in the General Subdistrict commercial set gillnet harvest, Upper Cook Inlet, Alaska, in 2002.

	Age Group			Total
	1.1	2.1	3.1	
Sample period:	4 July - 16 September			
Males	819	16,291	1,638	18,748
Percent	2.24	44.64	4.49	51.37
Sample Size	9	179	18	206
Mean Length ^a	552	556	576	558
Std. Error	14	3	10	3
Sample Size	9	179	18	206
Females	1,001	14,834	1,911	17,746
Percent	2.74	40.65	5.24	48.63
Sample Size	11	163	21	195
Mean Length	538	550	561	550
Std. Error	11	2	7	2
Sample Size	11	163	21	195
Both Sexes	1,820	31,125	3,549	36,494
Percent	4.99	85.29	9.72	100.00
Sample Size	20	342	39	401
Mean Length	544	553	568	554
Std. Error	9	2	6	2
Sample Size	20	342	39	401

^a Mean length in mm.

Table 27. Age, sex and length composition of chum salmon in the Central District commercial drift gillnet harvest, Upper Cook Inlet, Alaska, in 2002.

	Age Group				Total
	0.2	0.3	0.4	0.5	
Sample Period 1: 27 June - 15 July					
Males	602	42,350	401		43,353
Percent	0.67	46.89	0.44		48.00
Sample Size	3	211	2		216
Mean Length ^a	571	608	635		607
Std. Error	17	2	14		2
Sample Size	3	211	2		216
Females	401	46,364	201		46,966
Percent	0.44	51.33	0.22		52.00
Sample Size	2	231	1		234
Mean Length	540	604	594		604
Std. Error		1			1
Sample Size	2	231	1		234
Both Sexes	1,003	88,714	602		90,319
Percent	1.11	98.22	0.67		100.00
Sample Size	5	442	3		450
Mean Length	558	606	621		606
Std. Error	17	1	14		1
Sample Size	5	442	3		450

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	Age Group				Total
	0.2	0.3	0.4	0.5	
Sample Period 2: 18 July - 12 August					
Males	1,839	58,857	307		61,003
Percent	1.37	43.84	0.23		45.43
Sample Size	6	192	1		199
Mean Length	559	601	623		600
Std. Error	13	2			2
Sample Size	6	192	1		199
Females	1,226	70,506	1,226	307	73,265
Percent	0.91	52.51	0.91	0.23	54.57
Sample Size	4	230	4	1	239
Mean Length	550	598	595	638	598
Std. Error	10	2	6		2
Sample Size	4	230	4	1	239
Both Sexes	3,065	129,363	1,533	307	134,268
Percent	2.28	96.35	1.14	0.23	100.00
Sample Size	10	422	5	1	438
Mean Length	555	599	601	638	599
Std. Error	9	1	6		1
Sample Size	10	422	5	1	438

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Table 27. (page 3 of 3)

	Age Group				Total
	0.2	0.3	0.4	0.5	
All Periods Combined:					
Males	2,441	101,207	708		104,356
Percent	1.09	45.06	0.32		46.47
Sample Size	9	403	3		415
Mean Length	562	604	630		603
Std. Error	10	1	14		1
Sample Size	9	403	3		415
Females	1,627	116,870	1,427	307	120,231
Percent	0.72	52.04	0.64	0.14	53.53
Sample Size	6	461	5	1	473
Mean Length	547	601	595	638	600
Std. Error	10	1	6		1
Sample Size	6	461	5	1	473
Both Sexes	4,068	218,077	2,135	307	224,587
Percent	1.81	97.10	0.95	0.14	100.00
Sample Size	15	864	8	1	888
Mean Length	556	602	606	638	601
Std. Error	8	1	5		1
Sample Size	15	864	8	1	888

^a Mean length in mm.

e 28. Age, sex and length composition of chum salmon escapement in Little Susitna River, Northern District, Upper Cook Inlet, Alaska, in 2002.

	Age Group				Total
	0.2	0.3	0.4	0.5	
Sample period:	22 July - 18 September				
Males	440	18,030	733	293	19,496
Percent	1.07	43.69	1.78	0.71	47.25
Sample Size	6	246	10	4	266
Mean Length ^a	591	595	622	620	596
Std. Error	14	2	10	8	2
Sample Size	6	246	10	4	266
Females	806	20,229	660	73	21,768
Percent	1.95	49.02	1.60	0.18	52.75
Sample Size	11	276	9	1	297
Mean Length	585	592	606	645	592
Std. Error	11	1	6		1
Sample Size	11	276	9	1	297
Both Sexes	1,246	38,259	1,393	366	41,264
Percent	3.02	92.72	3.38	0.89	100.00
Sample Size	17	522	19	5	563
Mean Length	587	593	615	625	594
Std. Error	9	1	6	8	1
Sample Size	17	522	19	5	563

^a Mean length in mm.

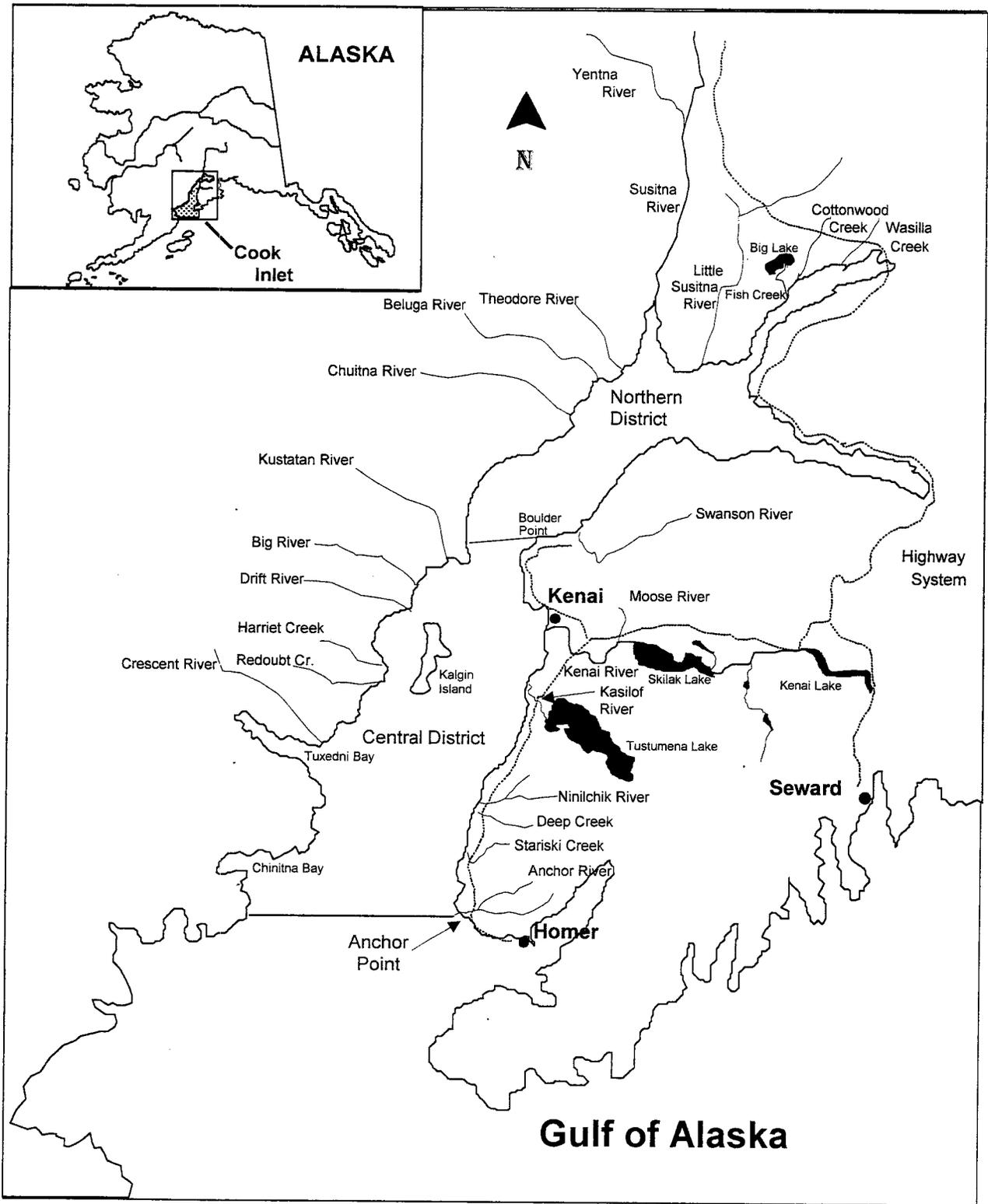


Figure 1. Map of Upper Cook Inlet showing locations of the Northern and Central Districts and the primary salmon spawning drainages.

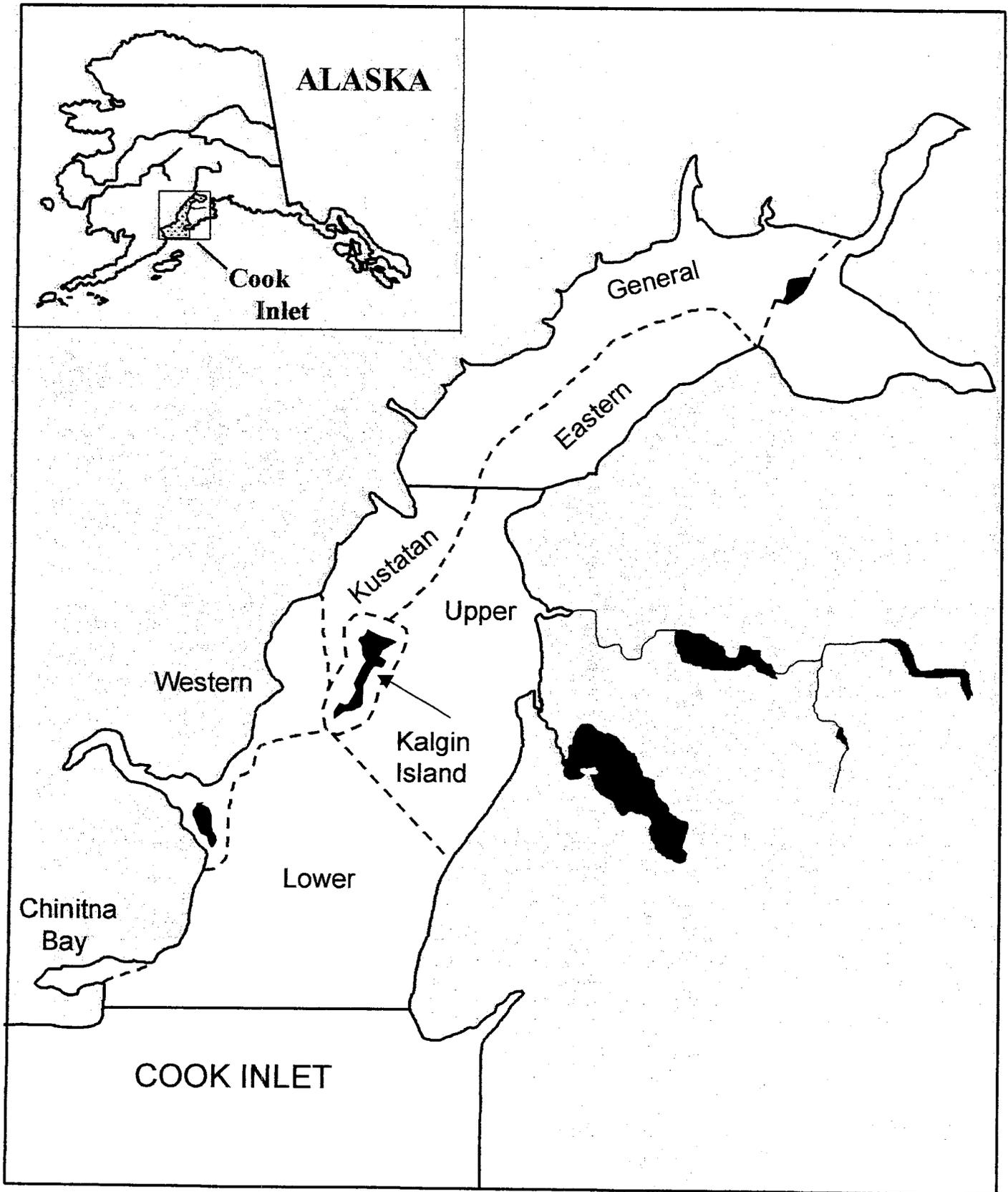


Figure 2. Upper Cook Inlet commercial fisheries subdistrict fishing boundaries.

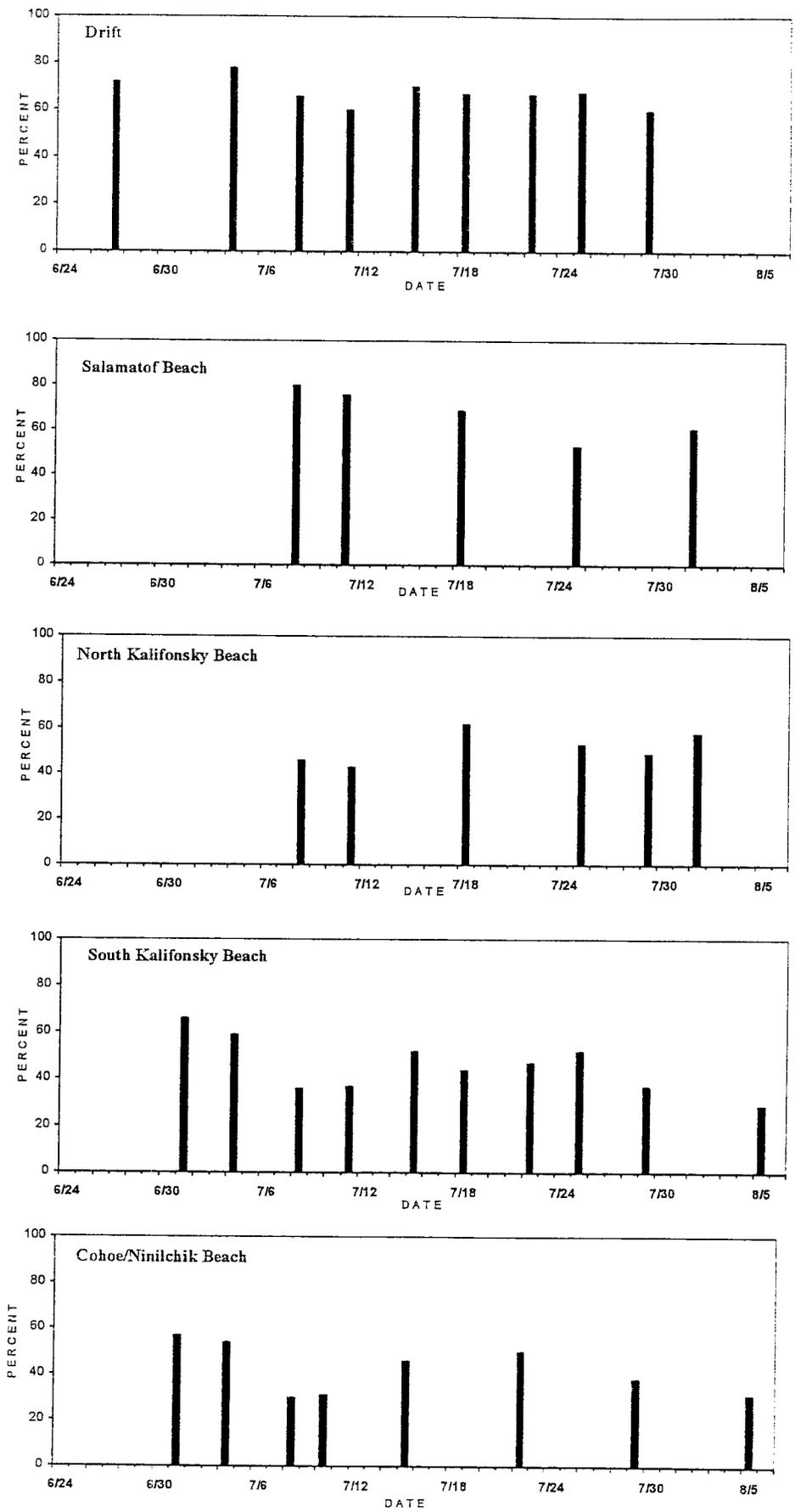


Figure 4. Trends in age-1.3 sockeye salmon composition in the Central District drift gillnet and Upper Subdistrict (Salamatof, North and South Kalifonsky, and Cohoe/Niniichik Beaches) Upper Cook Inlet, Alaska, in 2002.

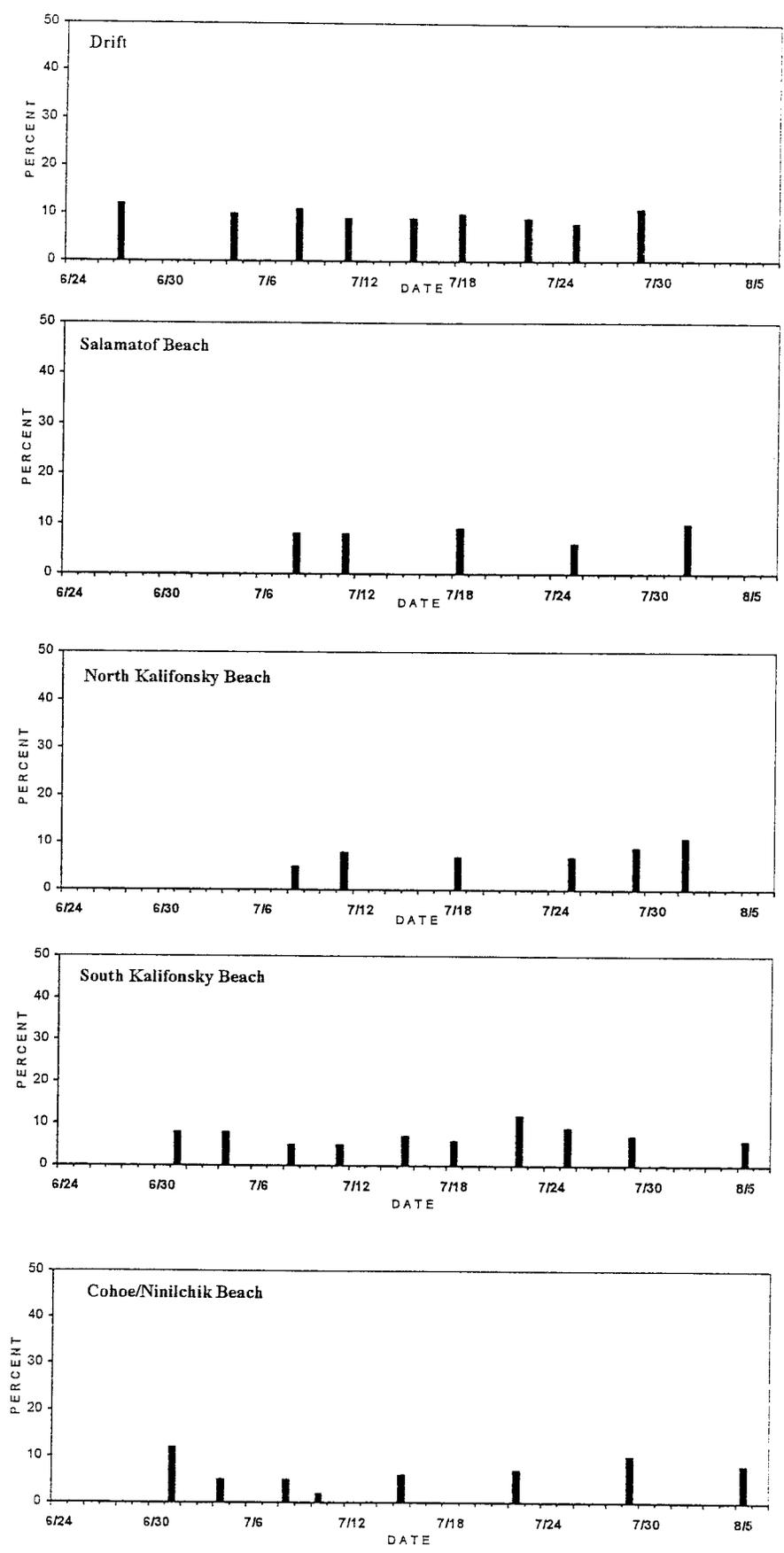


Figure 5. Trends in age-2.3 sockeye salmon composition in the Central District drift gillnet and Upper Subdistrict (Salamatof, North and South Kalifonsky, and Cohoe/Ninilchik Beaches), set gillnet harvest, Upper Cook Inlet, Alaska, in 2002.

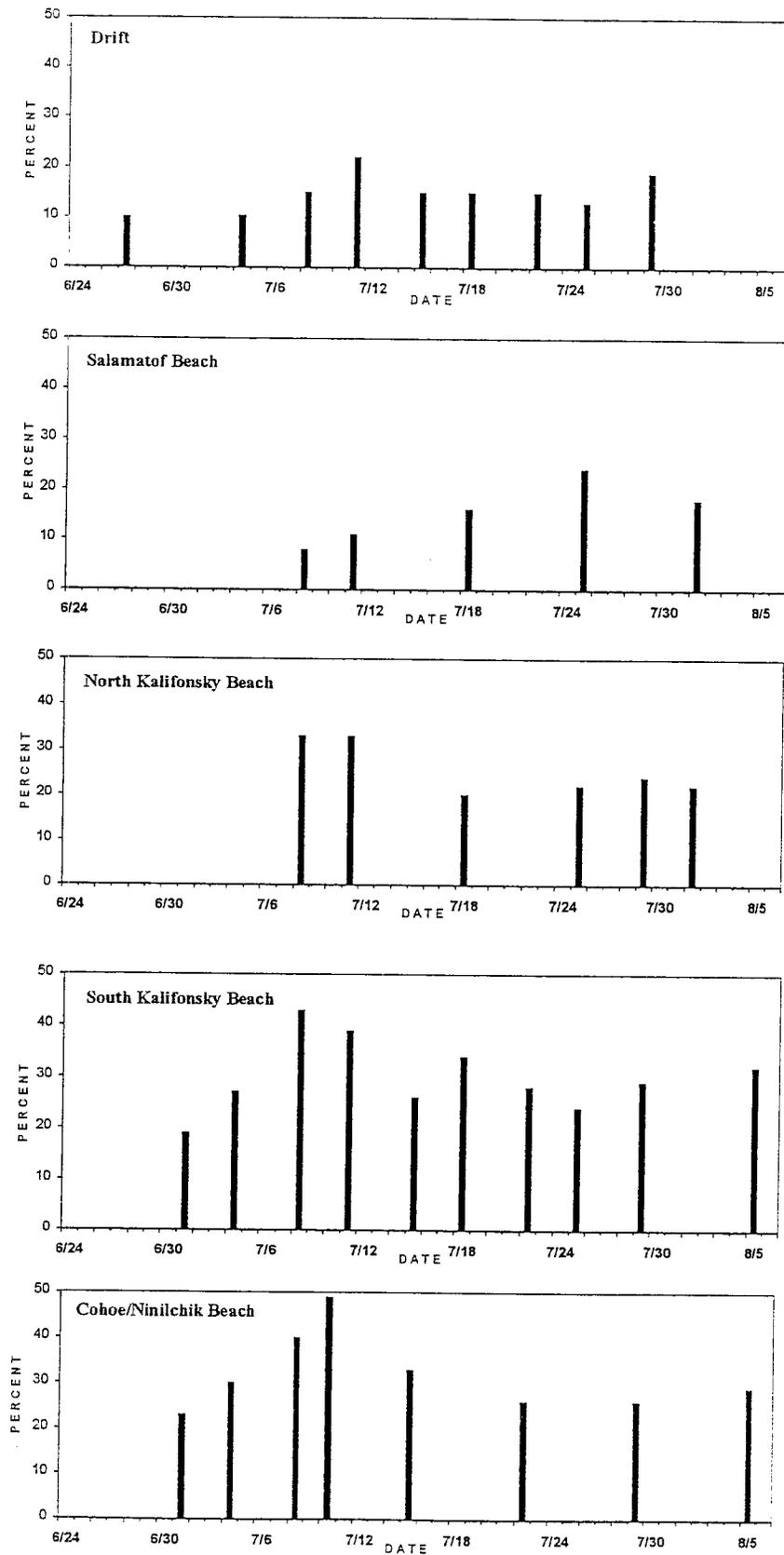


Figure 6. Trends in age-1.2 sockeye salmon composition in the Central District drift gillnet and Upper Subdistrict (Salamatof, North and South Kalifonsky, and Cohoe/Ninilchik Beaches) set gillnet harvests, Upper Cook Inlet, Alaska, in 2002.

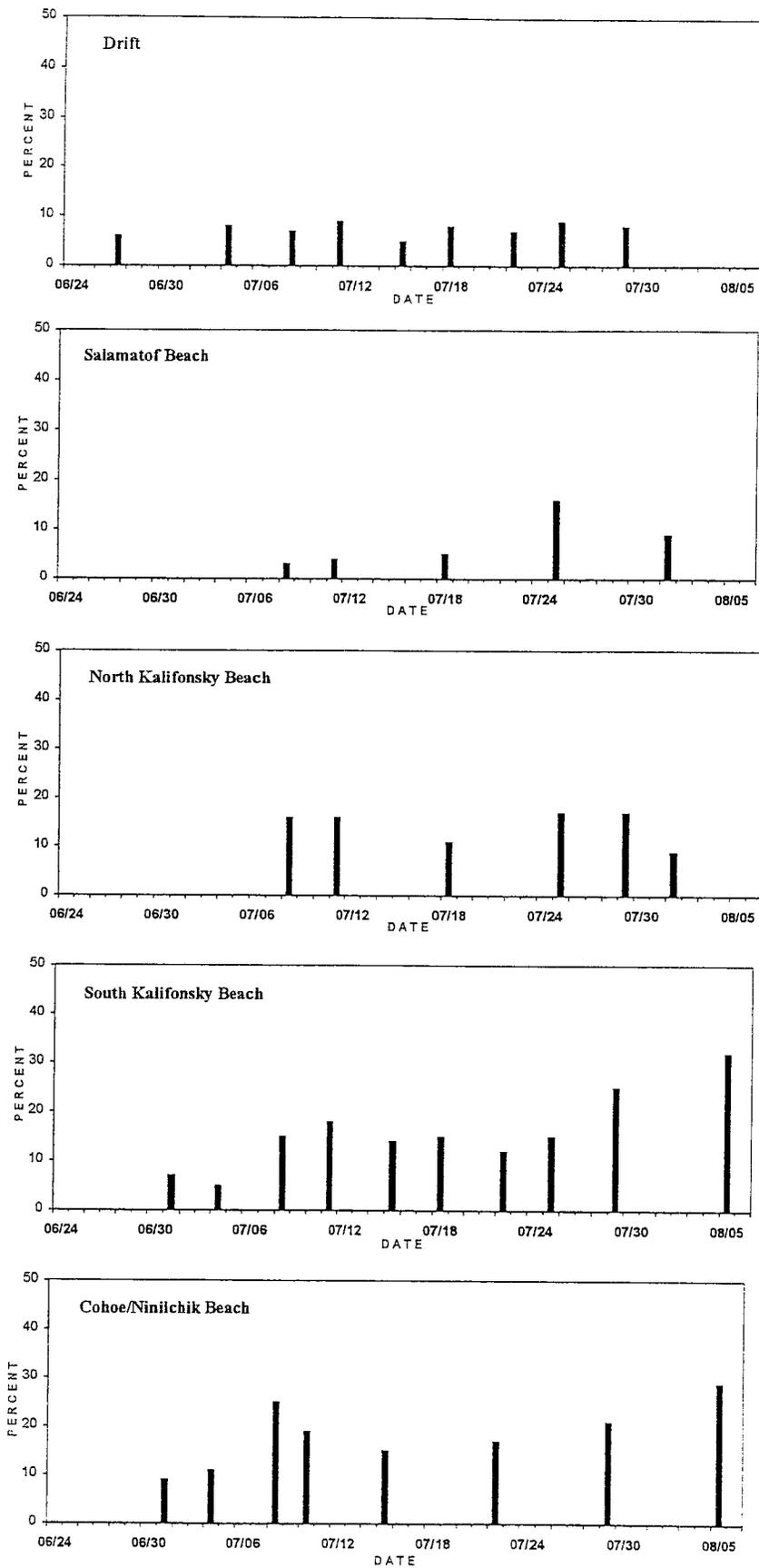
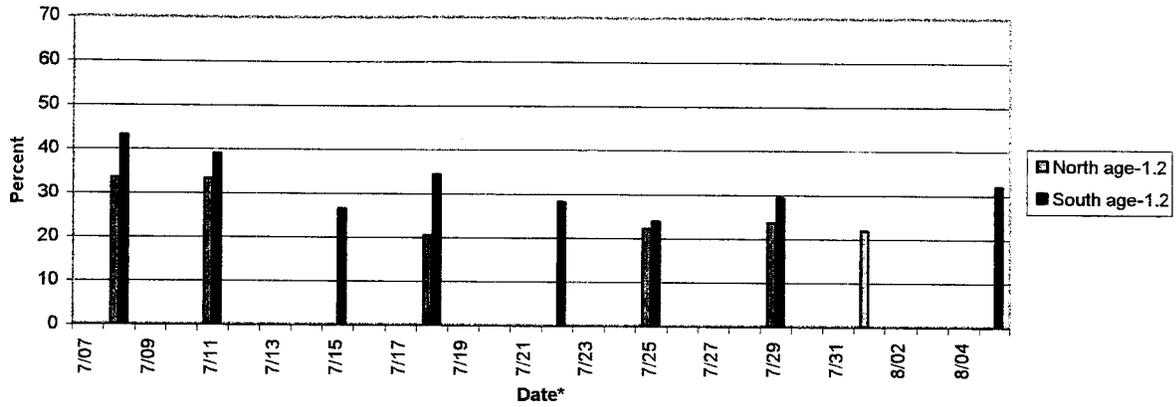
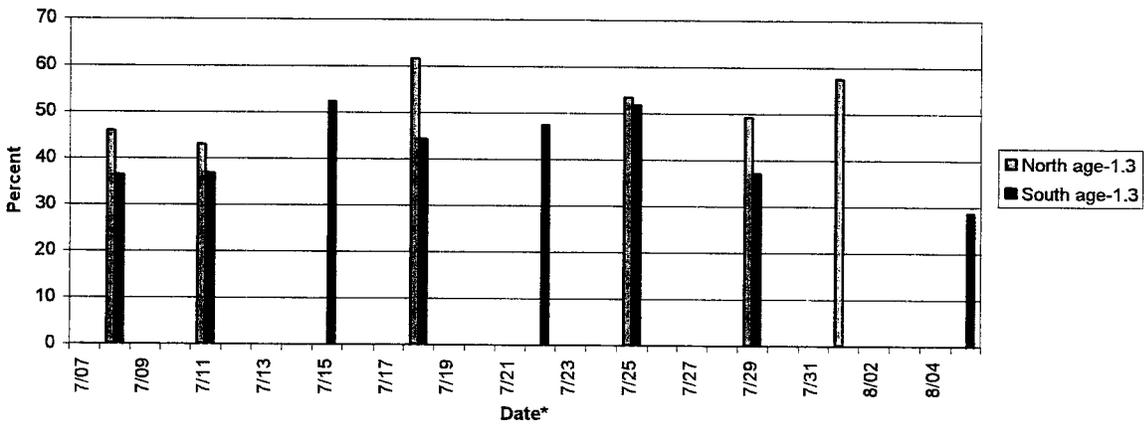


Figure 7. Trends in age-2.2 sockeye salmon composition in the Central District drift gillnet and Upper Subdistrict (Salamatof, North and South Kalifonsky, and Cohoe/Niniichik Beaches), set gillnet harvests, Upper Cook Inlet, Alaska, in 2002.

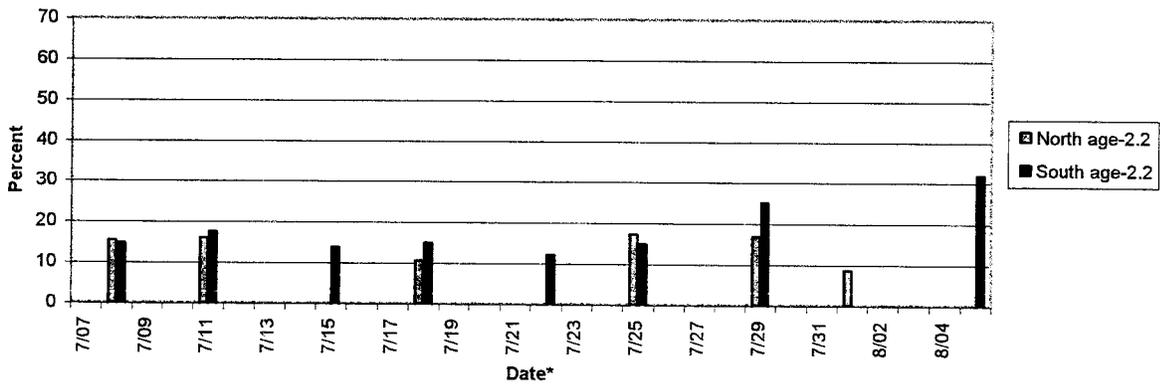
North and South Kalifonsky Beach Harvests of Age-1.2 Sockeye



North and South Kalifonsky Beach Harvests of Age-1.3 Sockeye



North and South Kalifonsky Beach Harvests of Age-2.2 Sockeye



*Both beaches were not sampled on every date.

Figure 8. Trends in age-1.2, 1.3, and 2.2 sockeye salmon composition in the Upper Subdistrict, North and South Kalifonsky Beach harvests, Upper Cook Inlet, Alaska, in 2002.

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