Special Publication No. 10-11

Historical Age and Length Composition of Sockeye, Chinook, Coho and Chum Salmon in Selected Commercial Fisheries and River Escapements, 1979–2008, Upper Cook Inlet, Alaska

by

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and

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June 2010

Alaska Department of Fish and Game **Divisions of Sport Fish and Commercial Fisheries**

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Weights and measures (metric)

centimeter	cm
deciliter	dL
gram	g
hectare	ha
kilogram	kg
kilometer	km
liter	L
meter	m
milliliter	mL
millimeter	mm

Weights and measures (English)

cubic feet per second	ft^3/s
foot	ft
gallon	gal
inch	in
mile	mi
nautical mile	nmi
ounce	oz
pound	lb
quart	qt
yard	yd

Time and temperature

day	d
degrees Celsius	°C
degrees Fahrenheit	°F
degrees kelvin	K
hour	h
minute	min
second	s

Physics and chemistry

all atomic symbols	
alternating current	AC
ampere	A
calorie	cal
direct current	DC
hertz	Hz
horsepower	hp
hydrogen ion activity (negative log of)	pH
parts per million	ppm
parts per thousand	ppt, ‰
volts	V
watts	W

General

Alaska Administrative Code	AAC
all commonly accepted abbreviations	e.g., Mr., Mrs., AM, PM, etc.
all commonly accepted professional titles	e.g., Dr., Ph.D., R.N., etc.
at	@
compass directions:	
east	E
north	N
south	S
west	W
copyright	©
corporate suffixes:	
Company	Co.
Corporation	Corp.
Incorporated	Inc.
Limited	Ltd.
District of Columbia	D.C.
et alii (and others)	et al.
et cetera (and so forth)	etc.
exempli gratia (for example)	e.g.
Federal Information Code	FIC
id est (that is)	i.e.
latitude or longitude	lat. or long.
monetary symbols (U.S.)	$, ¢
months (tables and figures): first three letters	Jan,...,Dec
registered trademark	®
trademark	™
United States (adjective)	U.S.
United States of America (noun)	USA
U.S.C.	United States Code
U.S. state	use two-letter abbreviations (e.g., AK, WA)

Measures (fisheries)

fork length	FL
mideye to fork	MEF
mideye to tail fork	METF
standard length	SL
total length	TL

Mathematics, statistics

all standard mathematical signs, symbols and abbreviations	
alternate hypothesis	H_A
base of natural logarithm	*e*
catch per unit effort	CPUE
coefficient of variation	CV
common test statistics	(F, t, χ^2, etc.)
confidence interval	CI
correlation coefficient (multiple)	R
correlation coefficient (simple)	r
covariance	cov
degree (angular)	°
degrees of freedom	df
expected value	*E*
greater than	>
greater than or equal to	≥
harvest per unit effort	HPUE
less than	<
less than or equal to	≤
logarithm (natural)	ln
logarithm (base 10)	log
logarithm (specify base)	$\log_2$, etc.
minute (angular)	'
not significant	NS
null hypothesis	H_O
percent	%
probability	P
probability of a type I error (rejection of the null hypothesis when true)	α
probability of a type II error (acceptance of the null hypothesis when false)	β
second (angular)	"
standard deviation	SD
standard error	SE
variance	
population	Var
sample	var

SPECIAL PUBLICATION. 10-11

HISTORICAL AGE AND LENGTH COMPOSITION OF SOCKEYE, CHINOOK, COHO AND CHUM SALMON IN SELECTED COMMERCIAL FISHERIES AND RIVER ESCAPEMENTS, 1979–2008, UPPER COOK INLET, ALASKA

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June 2010

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This document should be cited as:
Tobias T. M., and T. M. Willette. 2010. Historical age and length composition of sockeye, Chinook, coho and chum salmon in selected commercial fisheries and river escapements, 1979–2008, Upper Cook Inlet, Alaska. Alaska Department of Fish and Game, Special Publication No. 10-11, Anchorage.

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ABSTRACT

The purpose of this report is to summarize all available age, length and sex composition data that can be utilized from data collected since 1979. This report supersedes Regional Information Report 2A04-12 "*Age and Length Composition of Sockeye, Chinook, Coho, and Chum Salmon from 1979-2003 and Sockeye Salmon Female Contribution from 1987-2003 in selected Commercial Fisheries and River Escapements, in Upper Cook Inlet, Alaska.*"

Key words: Salmon, *Oncorhynchus*, age, size, sex composition, Upper Cook Inlet, Alaska

INTRODUCTION

The first collection of scale samples from salmon harvested in the Upper Cook Inlet (UCI) commercial fishery occurred in 1961. Subsequent sampling occurred but results were not formally reported until 1965 (Davis 1966). Since then, scales along with sex and size data, have been collected from salmon harvested in the commercial fisheries and escapements of UCI. Unfortunately in these early years (1961–78) the collection of salmon scales was sporadic. From 1979 to present, emphasis has been placed on conducting a scientifically defensible program.

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 1985; Cross et al. 1981, 1982, 1983, 1985, *Unpublished*; Waltemeyer 1989, 1990, 1991, 1993, 1994a, 1994b, 1995a, 1995b; Tobias and Waltemyer 1996; Waltemyer and Tobias 1997, 1998; Tobias and Tarbox 1999a, 2000; Tobias and Willette 2001, 2002, 2003, 2004, 2007, 2008a, 2008b, 2008c, *In prep*).

This report supersedes Waltemyer (1997), Tobias and Tarbox (1999b), Tobias and Willette (2002), and Tobias and Willette (2004), that initially summarized the historical age, length and sex composition of Chinook *Oncorhynchus tshawytscha*, chum *O. keta*, coho *O. kisutch*, and sockeye *O. nerka* salmon for the years 1979 to 1996. All tables through 2008 were updated.

The UCI commercial fishery management area is presently divided into 2 major fishing districts, the Central and the Northern, which include all waters north of the latitude of Anchor Point. The Central District is subdivided into 5 subdistricts, consisting of Upper, Lower, Kustatan, Kalgin, Western, and Chinitna. The Northern District consists of 2 subdistricts, the East Side (Eastern Subdistrict) and the West Side (General Subdistrict). Drift gillnet fishing is limited to the Central District. Locations of the commercial fishing districts, subdistricts, and Upper Subdistrict Beaches are shown in Figure 1.

The UCI fishery harvest is made up of mixed stocks of all salmon species, although the primary commercial species is sockeye salmon. Major sockeye salmon systems are Kenai, Kasilof, and Crescent Rivers located in the Central District and the Susitna River in the Northern District. Other significant sockeye salmon producing systems included are: Packers Creek, located on Kalgin Island in the Central District and Fish Creek, Cottonwood Creek, and Chelatna, Larson and Judd Lakes in the Northern District (Figures 2 and 3).

The Offshore Test Fish program employs a chartered vessel that fishes along a transect crossing Cook Inlet from Anchor Point to the Red Delta River to estimate run strength inseason (Shields and Willette 2007). Members of the crew collect age and size data from sockeye salmon caught at each station along the transect, and these data are also presented in this report.

METHODS

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).

Sockeye salmon were sampled from the 8 major commercial fisheries in UCI: Central District Drift, Central District East-side set net consisting of Coho/Ninilchik, Kalifornsky Beach, and Salamatof Beach, Central District west-side set net, Kalgin Island set net, Northern District East-side set or Eastern Subdistrict and Northern District west-side set net or General Subdistrict. Beginning in 2002, North and South Kalifornsky Beach were reported separately.

From 1987 to 2008 commercially harvested Chinook salmon were sampled mainly from the Upper Subdistrict Eastside beaches combined. Samples from Cohoe/Ninichik Beach, Kalifornsky Beach and Salamatof Beach were taken separately from 1983 to 1986. From 1980 to 1991 Chinook were sporadically sampled in the Western Subdistrict, Eastern Subdistrict and General Subdistrict.

Coho salmon data were reported in the commercial harvest from the Central District drift and East-side beach set net harvest from 1983 to 2008. Chum salmon were sampled from the Central District drift from 1979 to present and in the Little Susitna River from 1999 to 2003.

Yearly results of age composition and length were taken from other reports from 1979 to 2008. Most of the years had similar sampling programs where age, sex and size data for commercial harvests were collected and computed by the author. The season's catch for each species and fishery were estimated with stratified systematic sampling programs according to Cochran (1977). Sampling was designed so that sufficient numbers of fish were sampled to simultaneously estimate the true proportion of each major age group in the catch within ±5 percentage points 90% of the time. The number of time and spatial strata selected for sampling differed among fisheries and species.

Sockeye salmon escapement samples were taken from the 5 main river systems in UCI: Kenai, Kasilof, Crescent and Susitna rivers, and Fish Creek. Weirs were the source of the data collection at Fish, Packers, and Hidden creeks and the Northern District lakes including Chelatna, Judd, Larson, Shell, Swan, Hewitt, Byers, and Stephan. Samples were taken from fishwheels located near the sonar sites on the major rivers and weirs on the river system. Lengths, scales and sex were recorded in relation to abundance to achieve a sample of at least 405 scales. Samples were taken by the Alaska Department of Fish and Game and Cook Inlet Aquaculture Association.

Sex of the fish were determined by morphological characteristics. Length in millimeters was measured from mideye to fork of tail. Sample size was also recorded. 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 5% of the true proportion 90% of the time (Thompson 1987). Since some sample sizes did not meet this criterion, the readable number sampled was recorded in each table to allow the reader to evaluate the precision of the estimates.

RESULTS AND DISCUSSION

This report summarizes the results from the sampling of salmon species in Upper Cook Inlet from 1979 to 2008 for age, length and sex.

Tables 1–20 and Figures 4–13 present age and length composition data for sockeye salmon from 8 commercial gillnet fisheries. The Offshore Test Fish age and length information beginning in 2002 are presented in Table 21 and Figure 14. Sockeye salmon age and length composition data from monitored escapement sites are presented in Tables 22–50 and Figures 15–27.

Tables 51–54 and Figure 28 present age and length composition data for Chinook salmon for 3 Upper Subdistrict eastside commercial set gillnet fisheries from 1983 to 1986 and the combined Upper Subdistrict starting in 1987. Tables 55–56 present Western and Eastern Subdistrict Chinook salmon age and length data from various years when available. Table 57 and Figure 29 present Chinook salmon age and length composition data from the General Subdistrict from 1983–1991. Note the small sample sizes in the Eastern, General and Western Subdistrict tables.

Summary Tables 58–64 and Figures 30–33 present age and length composition data for coho salmon in 4 commercial gillnet fisheries starting in 1983.

Tables 65–66 and Figure 34–35 present age and length composition data for chum salmon in the commercial drift gillnet fishery starting in 1983. Table 67 and Figure 35 present the chum salmon age and length composition data from the Little Susitna River escapement from 1999 to 2003.

Figure 36 is an historical summary of sockeye salmon lengths in 4 age classes from the escapements into 8 river systems in UCI.

Percent sockeye salmon female composition data from 7 commercial gillnet fisheries and escapements into 6 rivers are found in Table 68. Historical female compositions are summarized in Figures 37–39.

The 4 major sockeye salmon age classes in UCI are 1.2, 1.3, 2.2 and 2.3. The predominant sockeye salmon age class harvested and escaping to Upper Cook Inlet was age 1.3 or 5-year-old fish. Exceptions were the Kasilof River escapement where age 1.2 fish and 1.3 fish were generally found in equal numbers throughout the sampling years; the Russian River, which is a tributary of the Kenai River and Packer's Creek on Kalgin Island with 2.2 fish as the predominant age class; Hidden Creek, a tributary of the Kenai River and Fish Creek in the Northern District were predominantly age 1.2 sockeye salmon.

Of the major escapement systems sampled, the Kenai River has the largest age 1.3 sockeye salmon with an average length of 576 mm. Crescent and Yentna River's age 1.3 sockeye salmon average 565 mm, while Kasilof River sockeye salmon average 542 mm. Fish Creek and Packer's Lake both had an age 1.3 sockeye salmon average length of 540 mm.

In the commercial drift harvest, sockeye salmon in the 1.3 age class averaged 571 mm in length, suggesting that a major proportion of their harvest was heading to the Kenai River. Other commercial fisheries such as Cohoe/Ninilchik, and South Kalifornsky Beach set gillnets sites had average length fish in the 559 to 563 mm length category, which can be explained by the proximity to the Kasilof River stock. Generally, the average harvest lengths were most similar to the nearest river escapement.

Coho salmon sampled from the drift fishery and the set net fisheries of the Central and Northern District have similar age composition, with 4-year-old age 2.1 fish making up almost 80% of the harvest. The age 1.1 and 3.1 components generally represented 10% each. Historical lengths from 1983 to 2008 averaged from 553 mm to 565 mm for age 2.1 coho salmon.

Chinook salmon sampling was done consistently in the Central District, Upper Subdistrict set gillnet fisheries on the Eastside Beaches of Cohoe/Ninilchik, Kalifornsky Beach and Salamatof Beach. Age class 1.4 makes up the highest percentage of fish, with age 1.3 and 1.2 the next highest in number.

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TABLES AND FIGURES

Table 1.–Age Composition of sockeye salmon harvested in the Central District commercial drift gillnet fishery, Upper Cook Inlet, Alaska, 1979 to present.

Year	Sample Size	Percent Composition by Age Class (%)															
		0.1	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	Other
1979	1,713			0.10	1.60	32.50			49.20	12.10			4.50				
1980	1,545					21.90			52.10	9.90			16.10				
1981	5,845					12.90			76.50	6.30			4.30				
1982	7,364			0.03		6.55			83.72	2.16		0.17	7.36				
1983	8,541				1.60	14.80			73.60	2.20		0.40	7.30				
1984	5,872		0.10		2.00	16.30			55.00	7.60		1.20	17.70		0.10		
1985	7,709		0.10		1.50	13.20			68.40	6.00		0.50	10.10	0.10	0.10		
1986	7,918		0.10		1.10	17.80			58.80	8.30		0.20	13.70				
1987	7,675		0.01		0.57	8.16			80.76	3.48		0.07	6.95				
1988	6,883		0.07	0.03	0.36	10.37	0.09		68.78	6.60		0.20	13.44	0.01	0.04		
1989	[a]																
1990	7,330		0.21		1.61	8.94		0.05	54.84	6.95		0.44	26.58	0.12	0.22	0.05	0.06
1991	2,511				2.49	13.93	0.01	0.13	56.55	6.21		0.34	20.28				0.06
1992	6,779				0.32	2.75			83.87	3.43		0.11	9.50		0.03		
1993	10,466		0.03		1.23	7.34	0.01		37.99	8.35		1.63	43.22	0.01	0.17	0.01	
1994	6,611		0.03		0.68	5.32	0.01		65.04	7.32		0.17	21.06	0.01	0.36		
1995	4,887		0.03		0.83	19.45	0.03		37.43	9.22		0.59	32.26	0.08	0.05	0.04	
1996	4,859		0.10		0.37	10.81	0.04		68.73	7.58		0.24	11.86	0.02	0.25		
1997	4,456		0.01		1.61	6.34			71.63	3.26		0.32	16.69		0.05	0.09	
1998	3,796		0.11		1.07	18.54			52.10	9.75		0.49	17.49	0.05	0.18	0.21	
1999	5,300		0.10		1.45	13.35			59.74	9.41		0.51	15.09	0.15	0.10	0.09	
2000	3,700		0.09		1.15	10.95			61.92	5.19		0.54	19.77	0.10	0.15	0.14	
2001	3,744		0.17		1.04	9.05			70.99	4.89		0.29	13.54	0.01	0.00	0.02	
2002	3,994		0.06		0.72	14.37			68.36	6.08		0.60	9.71	0.06	0.04		
2003	4,544		0.18		0.80	6.23	0.01	0.05	67.16	4.45		0.32	20.73	0.07		0.02	
2004	4,578		0.08		0.57	10.38			69.91	6.23		0.65	11.93	0.03	0.19	0.03	
2005	4,264				0.39	2.38			82.20	1.62		0.25	13.01	0.04	0.02	0.06	
2006	4,578		0.11	0.02	0.71	14.31	0.01		48.35	4.43		1.54	30.12	0.05	0.27	0.07	
2007	5,598		0.02	0.04	1.63	7.77			78.12	3.00		0.64	8.59		0.18	0.01	
2008	3,774				0.84	8.57			75.03	4.96		0.70	9.90		0.01		
Mean			0.09	0.04	1.09	11.91	0.03	0.08	64.72	6.10		0.50	15.61	0.06	0.13	0.06	0.06

[a] Drift Fishery closed due to presence of oil in Cook Inlet from the M/V EXXON VALDEZ oil spill that occurred in Prince William Sound.

Table 2.–Length composition of sockeye salmon harvested in the Central District commercial drift gillnet fishery, Upper Cook Inlet, Alaska, 1979 to present.

	Mean Length by Age Class (mm)																
Year	0.1	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	Other	Total
1979																	
1980																	
1981																	
1982					502			577	506		581	572					570
1983		550	464	565	509			571	518		602	570					561
1984				560	504			559	514		598	563		555			548
1985			456	555	501		603	555	518		569	561	524				545
1986		565		567	498			559	509		563	570		623			546
1987					487			529	459		341	540					524
1988		491	373	572	511	417		581	520		594	576		603			569
1989																	
1990		510		570	504	541	648	572	510		605	578	533	574	573		563
1991				573	508	320	586	554	507		582	564	512			592	547
1992		423		555	493			566	503		616	558		560			561
1993		439	495	557	492	400		556	503	370	581	562	541	596	604		550
1994		449		559	477	353		558	496		589	555	511	595			549
1995		451		576	506	431		567	511		605	576	535	585	508		553
1996		466		595	510	525		591	511		618	584	523	623			575
1997		484		579	499			589	501		629	584		638	545		580
1998		460		569	506	370		565	511		591	567	489	584	565		550
1999		465		577	510			583	521		610	577	549	566	587		567
2000		453		587	512			590	525		632	583	529	618	589		577
2001		476		576	517		517	576	522		616	574	488	570	560		568
2002		443		588	514			591	525		632	588	488	603			576
2003		501		572	501	357	611	581	522		607	580		627	547		573
2004		496		578	510			590	515		622	586	541	615	564		576
2005				582	502			580	522		598	575	503	563	545		577
2006		466	430	551	492	392		549	491		598	564	557	590	547		544
2007		470	416	588	504		566	584	513		629	570	486	602	574		575
2008				579	495			572	506		617	570		606			562
Mean		477	439	572	502	411	589	571	510	370	593	571	519	595	562	592	561

[a] Drift Fishery closed due to presence of oil in Cook Inlet from the M/V EXXON VALDEZ oil spill that occurred in Prince William Sound.

Table 3.–Age composition of sockeye salmon harvested in the Cohoe/Ninilchik Beach commercial set gillnet fishery, Upper Cook Inlet, Alaska, 1979 to present.

	Sample	Percent Composition by Age Class (%)														
Year	Size	0.1	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
1979	2,987		0.10	0.30	0.10	47.60			34.30	14.50		0.20	2.90			
1980	2,401			0.10		40.20			36.40	13.80		0.30	9.10			0.10
1981	3,060			0.10		25.00	0.10		62.60	8.70		0.10	3.40			
1982	3,782			0.24		22.15			64.43	6.88		0.01	6.29			
1983	5,650				0.30	21.00			63.70	5.50		0.50	9.00			
1984	5,483		0.01	0.04	0.64	34.28	0.03		33.74	17.63		1.11	12.48	0.01	0.03	
1985	7,756				0.10	34.40	0.20		44.40	14.60		0.30	5.80	0.10	0.10	
1986	3,586				0.40	41.00			32.20	16.70		0.70	8.70	0.10	0.20	
1987	3,198		0.07		0.25	12.32	0.02		69.18	8.86		0.14	9.16			
1988	2,314					21.35	0.09		49.35	14.78		0.48	13.87		0.09	
1989	2,175				0.11	3.72			22.86	13.50		0.61	58.88			0.32
1990	2,634			0.06	0.16	15.41			36.87	19.40		0.30	27.72	0.08	0.01	
1991	2,665		0.01	0.02	0.15	28.79			30.88	23.91		0.08	16.16			
1992	2,650		0.06	0.04	0.13	5.79	0.14		62.39	10.81			20.60			0.04
1993	2,643				0.49	9.03	0.18		31.55	16.35		2.52	39.20	0.07	0.52	0.11
1994	3,855		0.07		0.18	13.71	0.12		46.76	21.01		0.47	17.29	0.01	0.39	
1995	3,633		0.01		0.46	27.45			24.79	17.25		0.72	29.28	0.05		
1996	3,132				0.10	14.70			57.80	17.10		0.20	9.60		0.50	
1997	3,141			0.02	0.42	13.18			61.34	10.31		0.19	14.35	0.17	0.02	
1998	2,754		0.08		0.16	29.95	0.05		34.31	20.50		0.33	14.38	0.17	0.01	0.06
1999	4,163		0.03		0.07	24.19			46.42	19.51		0.24	9.46		0.02	0.07
2000	2,700		0.19	0.01	0.38	32.00	0.02		38.07	11.92		0.65	16.28	0.48		
2001	3,208			0.04	0.15	25.68	0.07		52.57	12.36		0.22	8.83	0.03	0.04	0.03
2002	3,560		0.05	0.11	0.03	28.42	0.20		48.26	14.59		0.59	7.68	0.05		
2003	3,655			0.01	0.27	18.06	0.16		50.80	15.62		0.37	14.68	0.01	0.01	
2004	3,594		0.03	0.02	0.06	28.57	0.08		36.13	25.39	0.02	0.28	9.37		0.06	
2005	3,637			0.04	0.14	11.53	0.05		66.27	5.79		0.22	15.85	0.08	0.03	
2006	4,271		0.02	0.07	0.06	28.89			44.03	10.84		0.34	15.66	0.03	0.05	0.01
2007	4,536		0.09	0.02	0.36	19.49	0.07		60.68	7.15		0.49	11.46		0.15	0.04
2008	3,129		0.04		0.26	17.55			66.61	8.76		0.24	6.52			0.02
Mean			0.06	0.07	0.23	23.18	0.10		46.99	14.13	0.02	0.44	14.80	0.10	0.13	0.08

Table 4.–Length composition of sockeye salmon harvested in the Cohoe/Ninilchik Beach commercial set gillnet fishery, Upper Cook Inlet, Alaska, 1979 to present.

	Mean Length by Age Class (mm)																
Year	0.1	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	Other	Total
1979																	
1980																	
1981																	
1982					493			561	487			575					543
1983			360	545	496	402		570	497		602	565					550
1984				577	482	393		552	494		576	548					518
1985		469	359	562	476	386		546	492		556	549	527	573			514
1986				572	485			542	490		498	550		562			510
1987					476	340		580	500		574	565					559
1988					493	370		580	497		629	579		649			549
1989				616	482			561	494		607	581			605		561
1990			395	556	469			557	468		617	562	470	554			528
1991		442	466	558	477			529	480		564	538					504
1992		473	360	547	475	399		556	483			555			536		543
1993				550	483	395		553	490		580	555	560	583	594		538
1994		420		538	463	355		557	478		598	551	520	590			527
1995		441		579	489			569	498		624	574	534				537
1996		441		560	486	390		576	491		628	569		622			548
1997			321	557	475			570	479		592	559	545	655			547
1998		430		549	483	388		548	489		608	549	536	641	544		516
1999		470		546	488			564	496		582	554		592	576		531
2000		451	399	576	488	421		569	495		618	566	521				533
2001			334	585	483	396		554	492		599	551	587	593	588		528
2002		422	324	572	482	369		570	490		610	567	533				532
2003			332	561	478	335		565	490		581	563	536	600	590		537
2004		433	363	575	485	387		557	488	401	604	549		602			518
2005			371	573	479	398		556	494		574	544	524	581			541
2006		450	337	547	478			532	480		593	549		604	509		513
2007		496	340	547	484	355		574	494		604	556		604	575		548
2008		448		571	476			547	483		623	547			533		529
Mean		449	362	563	482	381		559	489	401	594	558	533	600	565		533

Table 5.–Age composition of sockeye salmon harvested in the Kalifornsky Beach commercial set gillnet fishery, Upper Cook Inlet, Alaska, 1979 to present.

	Sample	Percent Composition by Age Class (%)															
Year	Size	0.1	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	Other
1979	2,261		0.01	0.50	0.01	44.09			43.39	9.40	0.90	0.20	1.50				
1980	1,522					26.50	0.10		49.50	11.00		0.20	12.60		0.10		
1981	2,064					22.30			69.00	5.70		0.30	2.70				0.10
1982	2,772			0.04		16.93	0.03		70.96	6.45		0.06	5.53				
1983	4,404		0.01		0.37	14.78			72.90	4.42		0.54	6.98				
1984	3,319		0.06		0.61	29.38	0.05		38.20	16.21		0.99	14.28	0.16	0.04		
1985	7,031			0.10	0.20	39.30	0.10		41.80	12.80		0.40	5.30				
1986	2,362				0.30	39.90			33.50	14.90		0.30	11.00		0.10		
1987	2,214				0.17	16.05			65.72	10.46			7.60				
1988	2,274					13.88			62.42	9.43		0.46	13.66		0.15		
1989	2,202				0.01	5.25			24.59	21.95		0.54	47.66		0.00		
1990	1,960				0.10	8.79			53.71	8.03		0.63	28.04	0.18	0.43	0.09	
1991	2,011				1.62	26.94			40.30	14.24		0.13	16.77				
1992	2,661				0.12	5.00	0.09		74.79	11.71			8.24		0.05		
1993	2,168		0.05		0.41	12.13	0.07		29.04	16.77		1.12	40.11		0.25	0.06	
1994	2,227				0.34	10.12	0.18	0.07	56.74	15.48		0.56	16.15		0.26	0.09	
1995	2,225				0.29	25.23			26.14	16.03		0.53	31.34	0.11	0.33		
1996	2,426			0.03	0.01	15.34	0.03		55.37	19.69		0.05	9.13	0.05	0.29	0.01	
1997	2,314		0.22			12.22	0.04		63.75	6.92		0.56	16.25	0.04			
1998	933					32.62	0.07		35.30	18.41		0.64	12.76	0.07	0.14		
1999	3,229				0.11	18.92			52.86	17.26		0.35	10.22	0.04	0.25		
2000	1,402				0.41	21.38			49.93	8.72		0.43	18.97	0.08	0.08		
2001	1,828				0.41	12.25	0.03		67.24	7.32		0.71	11.72	0.04	0.21	0.07	
2002	7,119			0.03	0.05	28.54	0.09	0.01	49.77	14.12		0.25	7.14				
2003	3,720		0.02	0.04	0.19	17.38	0.07		50.74	15.74		0.034	15.45	0.03			
2004	7,668		0.01		0.08	22.43	0.04		45.24	22.09	0.03	0.46	9.51		0.08	0.03	
2005	7,789		0.01	0.01	0.05	14.98			64.99	6.15		0.23	13.46	0.08	0.03	0.02	
2006	5,799		0.04	0.04	0.12	29.87	0.06		38.90	13.53		0.74	16.61	0.04	0.06		
2007	6,964		0.05	0.06	0.16	23.31	0.08		55.39	9.29		0.82	10.38	0.05	0.41	0.01	
2008	4,594				0.12	18.62			64.73	8.65		0.29	7.51	0.05	0.02		
Mean			0.05	0.09	0.26	20.81	0.07	0.04	51.56	12.43	0.47	0.45	14.29	0.07	0.16	0.05	0.10

Table 6.–Length composition of sockeye salmon harvested in the Kalifornsky Beach commercial set gillnet fishery, Upper Cook Inlet, Alaska, 1979 to present.

	Mean Length by Age Class (mm)																
Year	0.1	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	Other	Total
1979																	
1980																	
1981																	
1982					482			561	479			566					542
1983				558	490			565	492			562					548
1984				573	477			549	487		594	549		537			517
1985		453	368	561	478	378		547	492		571	547	480	596			513
1986		414		547	481			546	485		571	554		553			512
1987				483	472			589	487			569					558
1988					490			587	502		617	588		660			566
1989		481		547	483	578		557	493		580	582		574			551
1990				456	487			566	499		606	573	503	578	605		556
1991				545	479			537	478		625	542					514
1992				559	473	392		563	479			548		578			547
1993		425		538	470	365		552	483		584	558		599	580		536
1994				560	462	394	565	560	479		581	553		611	530		536
1995				568	496			571	499		629	582	527	588			544
1996			349	594	489	380		580	490		627	570	533	586	575		547
1997				560	466	393		576	471		624	566	511				554
1998					486	395		560	494		605	562	471	592			524
1999				554	485			576	499		580	563	516	591			544
2000				603	488			568	500		615	560	547	611			544
2001				576	493	405		573	505		609	566	508	579	572		558
2002			331	582	484	394	611	577	489		616	568					537
2003		431	341	555	476	364		565	487		596	564	487				537
2004		442		567	482	379		573	484	379	605	565	543	593	560		532
2005		431	221	551	474			563	480		594	548	515	614	565		543
2006		461	326	543	472	389		529	472		588	546	496	568			508
2007		459	332	557	474	355		566	486		611	546	527	601	543		535
2008				595	483			555	488		617	550	502	646			535
Mean		444	324	556	480	397	588	563	488	379	602	561	511	593	566		538

Table 7.–Age composition of sockeye salmon harvested in the North Kalifornsky Beach commercial set gillnet fishery, Upper Cook Inlet, Alaska, 2002 to present.

	Sample	Percent Composition by Age Class (%)												
Year	Size	0.2	1.1	0.3	1.2	2.1	1.3	2.2	3.1	1.4	2.3	3.2	2.4	3.3
2002	2,808		0.02	0.08	24.81	0.07	53.45	14.09		0.14	7.34			
2003	1,269	0.05	0.1	0.32	9.7	0.05	58.14	12.12		0.48	18.97	0.05		
2004	3,582			0.17	16.53	0.05	56.07	15.87	0.05	0.62	10.61		0.03	
2005	3,813			0.04	10.96		71.22	5.14		0.25	12.21	0.08	0.03	0.07
2006	2,098	0.06		0.34	20.49		35.72	18.12		1.64	23.43		0.20	
2007	3,547	0.11	0.08	0.08	15.29	0.10	63.77	7.51		1.16	11.40		0.51	
2008	1,758			0.28	13.75		68.97	6.59		0.59	9.77		0.05	
Mean		0.07	0.07	0.19	15.93	0.07	58.19	11.35	0.05	0.70	13.39	0.07	0.16	0.07

Table 8.–Length composition of sockeye salmon harvested in the North Kalifornsky Beach commercial set gillnet fishery, Upper Cook Inlet, Alaska, 2002 to present.

	Mean Length by Age Class (mm)													
Year	0.2	1.1	0.3	1.2	2.1	1.3	2.2	3.1	1.4	2.3	3.2	2.4	3.3	Total
2002		333	579	494	402	583	499		603	571				548
2003	431	332	565	477	381	571	496		600	570	499			552
2004			567	488	395	577	490	381	600	572	543	599		548
2005			563	476		569	485		600	557	511	626	565	553
2006	493		558	472		535	470		584	551		554		515
2007	464	331	550	480	372	569	499			551		604		548
2008			594	486		565	490		630	553		646		549
Mean	463	332	568	482	388	567	490	381	603	561	518	606	565	545

Table 9.–Age composition of sockeye salmon harvested in the South Kalifornsky Beach commercial set gillnet fishery, Upper Cook Inlet, Alaska, 2002 to present.

	Sample	Percent Composition by Age Class (%)												
Year	Size	0.2	1.1	0.3	1.2	2.1	0.4	1.3	2.2	1.4	2.3	3.2	2.4	3.3
2002	4,311		0.03	0.01	30.87	0.07	0.03	47.65	13.8	0.26	7.27			
2003	2,439		0.06	0.12	22.01	0.12		45.98	18.32	0.27	13.09	0.03		
2004	4,086	0.01			27.37	0.04		36.23	27.31	0.33	8.54		0.11	0.07
2005	3,976	0.01	0.01	0.06	17.39			61.41	6.64	0.26	14.13	0.07	0.01	
2006	3,701	0.04	0.05	0.09	32.91	0.07		39.09	12.47	0.51	14.69	0.03	0.02	
2007	3,417	0.02	0.06	0.21	28.87	0.07		49.48	10.38	0.65	9.63	0.11	0.49	0.02
2008	2,836			0.06	21.75			61.44	9.88	0.13	6.65	0.10		
Mean		0.02	0.04	0.09	25.88	0.07	0.03	48.75	14.11	0.34	10.57	0.07	0.16	0.05

Table 10.–Length composition of sockeye salmon harvested in the South Kalifornsky Beach commercial set gillnet fishery, Upper Cook Inlet, Alaska, 2002 to present.

	Mean Length by Age Class (mm)													
Year	0.2	1.1	0.3	1.2	2.1	0.4	1.3	2.2	1.4	2.3	3.2	2.4	3.3	Total
2002		333	591	478	386	611	571	484	619	566				530
2003		346	528	475	360		560	484	592	560	482			527
2004	442			479	363		566	481	608	555		588	565	518
2005	431	221	543	473			559	478	585	542	518	575		536
2006	451	326	521	471	388		527	471	597	543	499	597		504
2007	441	343	555	472	344		564	479	604	542	532	597	543	527
2008			615	483			552	488	603	551	498			530
Mean	441	314	559	476	368	611	557	481	601	551	506	589	554	525

Table 11.–Age composition of sockeye salmon harvested in the Salamatof Beach commercial set gillnet fishery, Upper Cook Inlet, Alaska, 1979 to present.

	Sample	Percent Composition by Age Class (%)													
Year	Size	0.2	1.1	0.3	1.2	2.1	1.3	2.2	3.1	1.4	2.3	3.2	2.4	3.3	Other
1979	2,922	0.20	0.80	0.50	38.00	0.10	48.30	8.10			4.00				
1980	1,203		0.20		29.70	0.10	47.80	11.30			10.90				
1981	1,849		0.30		16.30	0.10	73.00	6.30		0.10	3.90				
1982	2,621		0.09		3.72		85.93	1.26		0.01	8.98				
1983	2,905	0.25	0.15	0.78	24.19	0.06	66.18	2.59		0.55	5.25				
1984	1,732	0.10		1.70	17.78	0.10	43.85	14.29		3.50	17.08	1.20	0.29		0.11
1985	2,521	0.10	0.50	0.30	24.70	0.30	49.00	17.00		0.60	7.30	0.10	0.10		
1986	1,228	0.10		1.50	15.00		53.70	8.00		0.40	21.30				
1987	1,089	0.18		0.80	4.53		82.42	3.24			8.83				
1988	1,022				8.71		71.14	6.56		0.68	12.91				
1989	1,730			0.12	4.43		24.58	9.87		0.66	60.14		0.10	0.11	
1990	2,077		0.04	0.31	9.57	0.08	47.89	9.01		0.86	31.33	0.33	0.54		0.04
1991	1,497	0.14		0.92	24.01	0.07	52.50	5.34		0.25	16.66		0.11		
1992	2,103	0.18	0.16	0.47	6.91	0.16	82.54	6.22		0.18	3.10		0.09		
1993	2,099			0.40	4.33	0.19	38.63	3.14		2.10	50.93		0.27		
1994	1,619			0.41	6.20	0.05	63.74	15.28	0.13	0.70	13.18	0.14	0.18		
1995	1,784		0.01	0.43	21.91		32.86	5.88		0.98	37.81			0.11	
1996	1,764			0.43	9.79	0.08	74.60	6.19		0.35	8.47		0.09		
1997	1,376			0.30	3.97		78.49	3.34		0.13	13.68		0.09		
1998	1,038	0.02		0.11	15.33	0.02	58.12	6.93		0.70	18.26	0.23	0.18	0.11	
1999	2,284	0.01		0.18	13.94	0.11	56.19	18.13		0.52	10.47	0.14	0.22	0.08	
2000	1,390			0.40	13.10		61.42	7.17		1.07	16.22	0.49		0.13	
2001	1,352	0.03	0.03	0.2	10.88	0.16	72.85	2.75		0.84	12.27				
2002	2,339	0.05	0.01	0.33	15.68	0.06	67.59	7.08		1.08	8.04	0.08			
2003	2,762		0.01	0.34	8.82	0.02	64.39	6.56		0.36	19.48				
2004	2,611			0.08	10.40		66.67	8.97	0.03	0.63	12.88	0.09	0.17	0.09	
2005	3,556	0.07	0.09	0.54	4.50	0.10	77.36	2.64		0.26	14.27	0.12	0.03	0.03	
2006	2,007	0.11		0.65	8.96		44.65	4.63		2.70	37.96		0.17	0.17	
2007	3,273	0.11		0.85	4.87	0.05	79.30	3.46		1.38	9.50		0.49		
2008	1,988	0.08		1.53	7.57		75.76	4.21		1.24	9.24	0.02	0.26	0.08	
Mean		0.11	0.18	0.56	12.93	0.10	61.38	7.18	0.08	0.85	16.81	0.27	0.20	0.10	0.08

Table 12.–Length composition of sockeye salmon harvested in the Salamatof Beach commercial set gillnet fishery, Upper Cook Inlet, Alaska, 1979 to present.

	Mean Length by Age Class (mm)														
Year	0.2	1.1	0.3	1.2	2.1	1.3	2.2	3.1	1.4	2.3	3.2	2.4	3.3	Other	Total
1979															
1980															
1981															
1982		343		516		575	483			576					571
1983			565	489		577	508		582	573					553
1984			554	489		561	502		594	559		558			540
1985			549	490	402	559	515		580	560	530	570			534
1986	562		589	504		569	517		607	571					556
1987				508		590	522			570					575
1988				501		578	519		591	578					568
1989			585	485		579	508		626	593		609	581		577
1990		374	582	479	357	572	508		621	579	495	580		609	559
1991	503		539	506	342	555	500		596	562		615			541
1992	438	347	561	472	353	566	481		582	553		602			553
1993		495	530	481	384	559	498	370	581	564		577	560		556
1994			560	469	438	560	497	416	601	558	430	619			544
1995		357	570	506		578	524		626	588			559		563
1996			595	498	359	583	519		619	581		587			571
1997			573	486		581	488		642	575		628			573
1998	405		568	516	410	572	526		582	579	498	541	593		561
1999	496		531	494	397	578	517		592	575	528	595	606		555
2000			588	509		585	520		626	584	548		562		571
2001	400	330	570	516	369	586	537		606	584					576
2002	449	351	570	506	380	590	521		618	590	554				572
2003		356	565	485	367	576	515		581	576					564
2004	459		566	496	401	578	509	400	619	580	558	589	517		564
2005	431	342	564	495	393	573	499		589	567	505	583	547		566
2006	472		574	491		552	510		588	562		596	549		550
2007	438		579	499	374	584	519		621	575		617	595		577
2008	455		568	500		578	516		612	569	508	622	589		569
Mean	459	366	566	496	382	574	510	395	603	573	515	593	569	609	561

Table 13.–Age composition of sockeye salmon harvested in the Central District, Western Subdistrict commercial set gillnet fishery, Upper Cook Inlet, Alaska, 1979 to present.

	Sample	Percent Composition by Age Class (%)												
Year	Size	0.2	1.1	0.3	1.2	2.1	1.3	2.2	3.1	1.4	2.3	3.2	2.4	3.3
1979	2,423				31.10		62.30	5.10			1.50			
1980	1,150				10.70		78.60	6.70			4.00			
1981	1,169				15.10		49.40	8.40	0.10	0.30	26.70			
1982	1,557		0.08		10.34	0.11	77.18	2.64		0.03	9.62			
1983	1,677			0.20	16.60		50.50	15.10		0.30	17.30			
1984	2,750			0.10	5.20	0.10	25.80	18.10		0.20	50.20	0.10	0.20	
1985	3,313	0.10		0.20	4.90	0.10	45.40	8.90		0.40	40.00			
1986	964			0.50	7.60	0.40	22.80	19.10			48.80	0.80		
1987	1,036			0.29	7.14	0.10	51.06	7.72		0.29	33.20	0.10	0.10	
1988	823			0.24	15.31	0.12	53.71	13.49			17.13			
1989	658				2.89		45.29	5.17		0.76	45.74			0.15
1990	676				3.55		40.09	7.99		0.44	47.49	0.29		0.15
1991	256				5.86		47.66	14.45		0.78	31.25			
1992	1,351		0.10	0.05	13.58	0.10	44.59	9.84			31.73			
1993	1,041				18.83		35.93	29.30			15.89	0.05		
1994-95	[a]													
1996-97	[b]													
1998	746			0.35	13.29	0.12	15.16	57.06			13.08	0.78		0.16
1999	253				20.55		37.94	12.25			29.25			
2000	863	0.14		4.09	6.09		65.53	4.40		0.33	19.20	0.14		0.09
2001	409				33.99		10.76	5.62			48.41			1.22
2002	470			0.21	15.11		63.84	16.59			3.83	0.42		
2003	437			0.91	10.98	0.69	52.86	10.30		0.46	23.34			0.46
2004	880				14.28		38.33	22.40		0.35	24.33	0.30		
2005	416			0.24	7.69		56.25	9.62			26.20			
2006	992	0.06	0.15	0.41	18.86	0.15	46.95	4.55			28.54	0.20	0.15	
2007	1,103			0.55	9.27	0.09	67.30	9.12		0.09	13.31			0.27
2008	411			0.49	6.57		62.29	7.30		0.24	22.63	0.24	0.24	
Mean		0.10	0.11	0.59	12.51	0.19	47.98	12.74	0.10	0.36	25.87	0.31	0.17	0.36

[a] No samples were taken due to subdistrict closures.

[b] No samples were taken due to mixtures of samples from other statistical areas.

Table 14.–Length composition of sockeye salmon harvested in the Central District, Western Subdistrict commercial set gillnet fishery, Upper Cook Inlet, Alaska, 1979 to present.

	Mean Length by Age Class (mm)													
Year	0.2	1.1	0.3	1.2	2.1	1.3	2.2	3.1	1.4	2.3	3.2	2.4	3.3	Total
1979														
1980														
1981														
1982				482		556	504			548				545
1983	523		528	498		553	498		623	553				536
1984			547	496		555	499			556	584			542
1985			544	491		549	500		544	553				543
1986			552	488	376	555	497		525	550	589			536
1987				508		581	529		614	572				565
1988			553	494	358	566	502			563				545
1989				480		565	510		619	566			556	560
1990				483		556	498		551	560		564	556	551
1991				495		561	527		573	559				552
1992		324	554	481	375	546	496			546				532
1993				495		548	500			554	495			525
1994-95 [a]														
1996-97 [b]														
1998			558	512	417	564	519			566	525		596	531
1999				511		564	507			571				548
2000	461		589	507		586	495			581	515		591	576
2001				499		564	509			564			548	538
2002			592	484		539	480			550	480			521
2003			544	494	375	563	496		609	565			596	548
2004				489		560	498		592	566	515			537
2005			540	508		563	518			558				553
2006	399	360	565	495	416	549	490			550	521	565		536
2007			562	506	379	563	510		640	557			558	552
2008			525	498		567	505		503	566	498	617		557
Mean	461	342	554	495	385	560	504		581	560	525	582	572	545

[a] No samples were taken due to subdistrict closures.

[b] No samples were taken due to mixtures of samples from other statistical areas.

Table 15.–Age composition of sockeye salmon from the Northern District, Eastern Subdistrict commercial set gillnet fishery, Upper Cook Inlet, Alaska, 1979 to present.

Year	Sample Size	Percent Composition by Age Class (%)												
		0.2	1.1	0.3	1.2	2.1	0.4	1.3	2.2	1.4	2.3	3.2	2.4	3.3
1979	1,228				78.70			11.90	8.00		1.40			
1980	1,297		0.10		45.90			26.50	23.30		4.20			
1981	1,848				28.70			57.90	9.70		3.70			
1982	922		0.93		17.72	0.08		70.02	5.01		6.24			
1983	1,151	0.44	0.73	0.78	78.31	0.22	0.11	12.24	5.18	0.28	1.71			
1984	2,282	0.02	0.03	1.12	33.23			40.43	13.70	0.27	10.75	0.42	0.03	
1985	1,947	0.30	1.30	1.10	35.60	0.30		39.80	13.30	0.40	7.80	0.20		
1986	585		0.90	1.00	40.30	0.50		32.00	15.00		9.40	0.90		
1987	849	0.21	0.21	1.43	41.05	0.27		34.61	12.93		9.23	0.06		
1988	520		0.19	0.38	49.42	0.77		22.50	20.77		5.96			
1989	1,025	0.66	5.08	1.36	35.24	1.48		31.12	10.81		14.04	0.22		
1990	1,304	0.21	0.56	0.75	23.31	0.20		44.47	14.28	0.09	14.92	0.66		0.56
1991	878	0.12	0.57	0.67	34.04	0.58		28.82	20.93	0.11	13.82	0.23		0.11
1992	[a]													
1993	1,014	0.31	0.63	0.50	44.45	0.67		19.56	18.29	0.37	15.22			
1994	923	0.10	0.35	2.85	36.08	0.80		31.69	15.74	0.45	11.82	0.12		
1995	854		0.47	0.71	36.06	1.27		29.01	18.91	0.32	13.11	0.15		
1996	865	0.06	0.29	0.47	26.10	1.01		30.41	32.61	0.06	8.87	0.06	0.06	
1997	448			1.56	25.00	0.44		41.74	12.50		18.08	0.44		0.22
1998	661	0.59	0.82	1.18	52.61	0.59		22.99	15.95		4.45	0.82		
1999	463	0.65		3.02	35.64			26.57	27.43	0.21	5.83	0.65		
2000	1,312	0.16	0.21	1.32	21.91	0.19		34.98	18.50	0.17	20.60	1.82	0.07	0.07
2001	878	0.21	0.04	5.41	22.59	0.9		45.98	8.02	0.5	15.97	0.06		0.32
2002	780	0.26	0.13	0.78	32.05	0.13		35.48	21.41	0.39	8.98	0.26		0.13
2003	452			0.88	59.29	0.22		18.14	15.05		6.42			
2004	441	0.22	0.22	0.68	27.21			39.47	22.9		8.85	0.22		0.22
2005	478	0.21	0.42	2.09	30.12	0.21		35.35	15.27		15.28	0.42		0.63
2006	500	0.20	0.81	1.00	27.39			43.19	8.60	2.00	16.6	0.20		
2007	291	0.35		0.68	19.25	0.35		62.54	6.53	0.68	9.28		0.35	
2008	406	0.49		1.72	17.24	0.49		62.08	5.66	0.74	11.57			
Mean		0.29	0.68	1.34	36.36	0.53	0.11	35.57	15.04	0.44	10.14	0.42	0.13	0.28

[a] No samples obtained from fishery.

Table 16.–Length composition of sockeye salmon from the Northern District, Eastern Subdistrict commercial set gillnet fishery, Upper Cook Inlet, Alaska, 1979 to present.

	Mean Length by Age Class (mm)												
Year	0.2	1.1	0.3	1.2	2.1	1.3	2.2	1.4	2.3	3.2	2.4	3.3	Total
1979													
1980													
1981													
1982				485		566	513		559				548
1983		362	563	487		555	488		575				497
1984			564	488		551	491		565				523
1985	461	366	564	492	383	549	497	570	545	498			519
1986			558	489		560	519		562	492			524
1987		360	599	500	414	563	495		553				529
1988		335	568	498	395	564	504		565				519
1989	460	363	574	489	384	566	507		579	488			521
1990	426	392	539	479	407	549	485	620	545	503		543	521
1991	400	332	567	480	343	537	486	570	537	470		532	505
1992	[a]												
1993	438	340	541	465	353	519	478	563	538				488
1994	439	352	556	486	360	545	486	600	545	441			513
1995		333	553	482	367	547	490	627	563	527			512
1996	447	321	574	478	382	563	487	647	554	476	652		513
1997			550	475	395	563	484		561	493		537	529
1998	480	363	588	513	370	548	497		541	490			518
1999	474		557	504		564	504	585	560	526			525
2000	402	346	575	485	314	566	501	617	561	504	602	534	533
2001	448	357	569	497	360	561	501	608	563	509		523	540
2002	491	412	571	501	413	573	500	571	570	511		573	533
2003			507	466	360	547	478		549				488
2004	487	354	574	479		564	487		563	465		507	522
2005	484	310	559	481	377	556	486		551	557		536	520
2006	434	336	564	481		545	485	581	554	520			523
2007	553		573	495	405	570	487	565	549		590		547
2008	464		548	482	347	554	475	574	544				535
Mean	458	352	562	487	375	556	493	593	556	498	615	536	521

[a] No samples obtained from fishery.

Table 17.–Age composition of sockeye salmon harvested in the Northern District, General Subdistrict commercial set gillnet fishery, Upper Cook Inlet, Alaska, 1979 to present.

Year	Sample Size	Percent Composition by Age Class (%)														
		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	Other
1979	893	0.50	0.20	0.50	44.40	0.20		31.40	18.60			4.20				
1980	1,134		0.20		37.00			46.40	8.90			7.50				
1981	1,839				13.90			74.00	5.90			6.20				
1982	685		0.86		15.00	0.12		74.63	2.90	0.15	0.35	5.99				
1983	794	0.54		7.86	46.74	0.01		28.38	7.07			9.22		0.18		
1984	1,275	0.10		5.47	21.69			50.97	6.40		0.64	14.30		0.40		
1985	2,485	0.40	0.10	3.30	20.70	0.10	0.10	57.40	6.20		1.00	10.40		0.30		
1986	1,111	0.10		2.10	12.20	0.10	0.10	65.00	5.00		0.60	14.60	0.10	0.10		
1987	256		0.39	2.34	20.31	0.39		40.24	13.67			22.66				
1988	473			1.06	29.60			45.87	6.77		0.63	16.07				
1989	1,281	0.80		5.25	10.63			53.43	4.16		0.10	25.49		0.14		
1990	954	0.15		1.14	15.19			64.77	6.82		0.33	11.40		0.21		
1991	1,345	0.12		5.76	7.48			69.03	4.62		0.31	12.41	0.12		0.08	0.08
1992	1,540	0.47		4.68	8.82	0.29		68.35	3.42		0.47	13.45		0.04		
1993	1,385	0.18	0.04	5.11	20.27	0.14		44.80	8.80		0.17	20.31	0.10	0.04	0.04	
1994	1,412	0.34		4.70	18.17			51.65	9.53		0.04	15.57				
1995	983	0.41		4.18	7.74			68.21	4.87		0.10	14.49				
1996	1,147	0.16		3.10	11.12			54.11	5.01		0.87	25.63				
1997	808	0.49		8.89	21.33			56.85	5.04			7.40				
1998	909	0.22		4.45	12.92		0.07	59.11	4.82		0.22	18.11		0.07		
1999	1,326	0.29		2.18	20.8			41.01	5		0.55	29.94			0.23	
2000	863	0.13		4.05	6.14			65.33	4.47		0.32	19.32	0.13		0.1	
2001	439	0.23		3.65	8.2			59.23	4.1		0.68	23.23	0.23	0.23	0.23	
2002	112	0.89		4.46	28.57			47.32	5.36			13.39				
2003	452	0.45		2.88	5.31			63.71	1.55			26.11				
2004	316	0.31		0.95	12.02			66.77	3.48		0.95	15.19		0.31		
2005	223			2.24	8.53			62.33	4.93		0.45	21.07	0.45			
2006-07	[a]															
2008	573	0.18	0.52	4.89	15.01	0.52		48.86	6.98		0.52	21.64		0.69	0.18	
Mean		0.34	0.33	3.81	17.85	0.21	0.09	55.68	6.23	0.15	0.47	15.90	0.19	0.23	0.14	0.08

[a] Unable to sample subdistrict due to low harvest and processing location.

Table 18.–Length composition of sockeye salmon harvested in the Northern District, General Subdistrict commercial set gillnet fishery, Upper Cook Inlet, Alaska, 1979 to present.

	Mean Length by Age Class (mm)													
Year	0.2	1.1	0.3	1.2	2.1	0.4	1.3	2.2	1.4	2.3	3.2	2.4	3.3	Total
1979														
1980														
1981														
1982		337		485			572	474		576				554
1983			570	500			569	499		565				531
1984				501	339		566	469		566				544
1985		456	555	501		603	555	518	569	561	524			542
1986	484		557	485			565	500	570	564	533			552
1987		330	582	516			593	533		585				567
1988			563	506			573	516	624	572				550
1989	481		571	500			572	502	610	570		591		560
1990	408		556	492			553	489	574	555		615		540
1991	468		556	491		600	557	500	620	556	450		531	549
1992	462		557	492	357		556	492	608	553		590		547
1993	450	320	545	487	330		547	500	570	546	540	550	520	530
1994	464		550	485			552	488	606	552				533
1995	488		585	509			572	520	618	568				564
1996	447		577	507			578	511	607	576				566
1997	457		569	504			572	501		565				552
1998	451		569	512		597	571	520	635	571		571		561
1999	488		566	481			570	487	573	568			560	546
2000	461		589	507			586	495	602	581	515		591	576
2001	445		566	509			573	511	613	572	507	574	568	564
2002	456		588	514			583	508		580				558
2003	490		570	507			577	516		587				574
2004	561		568	514			580	517	598	584		543		570
2005			578	505			572	498	557	560	502			560
2006-07	[a]													
2008	485	358	570	483	340		550	483	552	541		561	533	532
Mean	469	360	568	500	342	600	569	502	595	567	510	574	551	553

[a] Unable to sample subdistrict due to low harvest and processing location.

Table 19.–Age composition of sockeye salmon in the Kalgin Island Subdistrict commercial set gillnet fishery, Upper Cook Inlet, Alaska, 1979 to 2000.

	Sample	Percent Composition by Age Class (%)												
Year	Size	0.2	1.1	0.3	1.2	2.1	1.3	2.2	1.4	2.3	3.2	2.4	3.3	Other
1979	415				40.60		29.70	24.90		4.40				0.40
1980	1,280				19.40		44.80	21.00		14.60				0.20
1981	1,186				19.50		52.00	14.30		14.20				
1982	1,386		0.10		13.36	0.03	56.01	14.70	0.05	15.75				
1983	740	0.30		0.90	19.60		48.90	16.70	0.20	13.30	0.10			
1984	713	0.10		0.90	16.70	0.10	39.50	23.90	0.40	17.50	0.90			
1985	1,934		0.10	0.40	7.80	0.20	41.60	16.40	0.70	32.80				
1986	264			1.30	12.80		61.60	7.60		16.40		0.10		
1987-88	[a]													
1989	454		0.22		5.51	1.76	6.39	33.04	0.22	47.58	4.41	0.22	0.66	
1990-97	[a]													
1998	427			0.70	7.49		35.59	24.12		30.45	0.47		1.17	
1999	[a]													
2000	441				0.68		18.82	4.99		74.83	0.23	0.23	0.23	
2001-04	[a]													
2005	448			0.45	2.01		68.97	5.58	0.89	21.87		0.22		
2006	1224	0.08	0.08	0.24	12.88	0.08	35.52	14.2	0.58	35.93	0.16	0.08	0.16	
2007	1222			0.34	9.05		54.35	19.18	0.86	15.78	0.10	0.25	0.10	
2008	492			0.2	5.9		41.06	15.45		37.4				
Mean		0.16	0.13	0.60	12.89	0.43	42.32	17.07	0.49	26.19	0.91	0.18	0.46	0.30

[a] No samples were taken due to the incidence of mixed samples from the Western Subdistrict fishery.

Table 20.–Length composition of sockeye salmon harvested in the Kalgin Island Subdistrict commercial set gillnet fishery, Upper Cook Inlet, Alaska, 1979 to 2000.

	Mean Length by Age Class (mm)												
Year	0.2	1.1	0.3	1.2	2.1	1.3	2.2	1.4	2.3	3.2	2.4	3.3	Total
1979													
1980													
1981													
1982				505		564	505		557				546
1983			548	513		555	517		554		624		540
1984			594	492	395	557	474	532	572	531			528
1985			538	503	366	560	507	594	551				544
1986			556	483		543	512		550				534
1987-88 [a]													
1989		325		486	353	572	516	634	574	517	650	584	543
1990-97 [a]													
1998			558	482		559	493		550	529		552	534
1999 [a]													
2000 [a]				546		568	524		555	495	510	568	556
2001-04 [a]													
2005			573	500		575	508	603	561		582		567
2006	435	362	545	488	395	542	473	577	542	478	601	546	525
2007			566	510		570	492	626	554	511	606	567	547
2008			599	485		559	493		549				541
Mean	435	344	564	499	377	560	501	594	556	510	596	563	542

[a] No samples were taken due to the incidence of mixed samples from the Western Subdistrict fishery.

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

	Sample	Percent Composition by Age Class (%)										
Year	Size	0.2	0.3	1.2	1.3	2.2	1.4	2.3	3.2	2.4	3.3	Total
2002	1,426	0.07	1.75	12.13	65.71	7.15	0.70	12.34	0.07	0.07		100
2003	1,370	0.06	0.88	6.42	70.71	5.01	0.77	16.09	0.06			100
2004	1,323	0.07	0.39	8.00	72.79	6.12	0.99	11.36		0.28		100
2005	1,881		0.46	2.02	79.97	1.48	0.63	15.19	0.10	0.10	0.05	100
2006	1,126		0.71	15.54	45.61	4.77	1.77	31.52		0.09		100
2007	1,835		0.72	7.78	76.41	4.68	2.58	7.78		0.05		100
2008	[a]											
Mean		0.07	0.82	8.65	68.53	4.87	1.24	15.71	0.08	0.12	0.05	

		Mean Length by Age Class (mm)										
Year		0.2	0.3	1.2	1.3	2.2	1.4	2.3	3.2	2.4	3.3	Total
2002		505	589	510	584	521	623	579	498	620		570
2003		485	549	491	561	506	576	561	475			553
2004		465	560	500	572	501	597	566		587		561
2005			571	506	572	518	583	567	527	607	561	569
2006			569	499	556	510	600	569		626		550
2007			570	514	584	525	619	566		630		575
2008	[a]											
Mean		485	568	503	572	514	600	568	500	614	561	563

[a] No scales taken in 2008.

Table 22.–Age composition of sockeye salmon escapement in the Kenai River, Upper Cook Inlet, Alaska, 1979 to present.

	Sample	Percent Composition by Age Class (%)													
Year	Size	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
1979	601		0.20		19.60			63.00	10.60			6.60			
1980	557		6.10		35.40	0.90		36.70	14.40			6.50			
1981	624				19.70	0.50		66.40	7.90	0.20		5.30			
1982	1,787		0.10		5.80			87.50	2.90			3.70			
1983	1,765		0.30	0.30	8.40	0.50		79.00	2.20		0.30	8.90		0.10	
1984	2,067	0.10		1.10	23.10	0.50		37.80	13.20		3.60	19.50	1.00		0.10
1985	2,201	0.50	0.10	0.20	15.90	0.10	0.10	56.40	14.70		0.30	11.40	0.30		
1986	789	0.10		1.30	31.80	0.30		39.50	8.20		0.70	18.00		0.10	
1987	745			0.13	12.75		0.13	78.39	3.22		0.13	5.23			
1988	1,420		0.28	0.07	11.62	0.21		74.15	3.10		0.35	10.21			
1989	1,587	0.07	0.20	0.06	5.64	0.81		26.68	7.57	0.31	0.91	57.44		0.31	
1990	1,513		0.59	0.27	21.56	0.31		41.43	13.66		0.60	21.10	0.23	0.25	
1991	2,502	0.02	0.11	2.15	48.24	0.44	0.09	31.60	5.65		0.15	11.43	0.07	0.04	
1992	1,338	0.07			2.73	0.25		79.90	5.85		0.22	10.98			
1993	2,088	0.05	0.29	0.29	12.21	6.27		30.51	6.42	0.05	2.63	41.19	0.05	0.05	
1994	1,341	0.07	0.30	0.07	6.56	0.82		61.07	17.75	0.07	0.75	12.08	0.15	0.30	
1995	712		0.28	0.42	31.88	2.39		26.40	6.60		0.42	31.32		0.28	
1996	684			0.29	10.82	0.73		75.44	6.14	0.15	0.29	5.41	0.15	0.58	
1997	963		0.10	0.31	7.58	0.42		75.18	2.80		0.42	12.98	0.10	0.10	
1998	700		0.29		27.14	6.57		40.71	9.57	0.14	1.29	13.86	0.14	0.14	0.14
1999	733			0.27	15.14	1.23		55.39	16.78	0.14	0.41	9.55	0.95	0.14	
2000	588		0.17	0.85	15.31	2.55		55.10	9.35		1.02	14.46	0.68	0.51	
2001	601		0.33		10.82	1.50		68.89	8.32		0.83	9.15			0.17
2002	2,441	0.08		0.04	23.02	0.74		58.38	10.61	0.08	0.7	6.1	0.08	0.12	0.04
2003	1,555	0.14	0.03	0.19	14.40	0.14		57.85	8.00	0.07	0.35	18.74		0.07	
2004	1,275			0.39	10.12	0.16		69.1	8.24		0.24	11.14	0.24	0.16	0.24
2005	1,893	0.05		0.17	2.83	0.17		81.26	2.79		0.28	11.84	0.52	0.09	
2006	1,315			0.46	9.89	0.38		38.71	3.65		2.36	44.03	0.08	0.38	0.08
2007	759			0.13	5.93	0.66		78.79	4.35		1.45	7.77	0.13	0.66	0.13
2008	567			0.35	15.17	0.71		60.85	7.23		4.59	10.93		0.18	
Mean		0.11	0.57	0.43	16.04	1.12	0.11	57.74	8.06	0.13	0.97	15.23	0.30	0.23	0.13

Table 23.–Length composition of sockeye salmon escapement in the Kenai River, Upper Cook Inlet, Alaska, 1979 to present.

	Mean Length by Age Class (mm)														
Year	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	Total
1979															
1980		359		475	397		565	524			585				515
1981				501	361		575	525	388		588				556
1982				490			583				592				578
1983				522			586				587				581
1984				474			571	507			564				537
1985				491			560	513			562				542
1986				489			571				575				543
1987			590	507		615	591	514		615	593				578
1988		385	595	516	384		583	527		612	584				572
1989	405	352	560	463	401		578	503	407	606	591		610		571
1990		376	548	476	377		574	495		610	580	487	615		541
1991	523	412	560	492	358	604	549	491		580	558	529	600		519
1992	419			468	372		557	485		594	555				550
1993	465	358	532	477	380		566	517	385	588	570	495	605		542
1994	423	346	530	457	385		564	486	388	590	563	398	595		541
1995		370	564	489	400		572	513		597	578		605		539
1996			595	511	411		597	516	409	609	602	521	632		582
1997		357	566	485	387		582	498		607	581	541	550		571
1998		364		488	395		562	504	381	612	566	530	595	550	526
1999			522	490	385		588	513	350	600	583	511	600		556
2000		370	612	513	408		594	519		631	593	521	639		570
2001		379		515	395		586	533		624	588			576	571
2002	425		582	503	379		592	514	383	634	591	501	593	598	562
2003	434	404	549	474	397		582	515	381	610	583		611		561
2004			565	489	392		576	512		618	581	506	608	550	562
2005	417		561	490	416		574	505		588	572	511	644		569
2006			566	497	427		562	522		591	566	513	607	548	556
2007			602	505	370		581	519		618	576	503	594	540	572
2008			602	468	372		585	499		617	582		594		561
Mean	439	372	568	490	389	610	576	510	386	607	579	505	605	560	556

Table 24.–Age composition of sockeye salmon escapements in Hidden Creek, Kenai River drainage, Upper Cook Inlet, Alaska, 1979 to present.

	Sample	Percent Composition by Age Class (%)									
Year	Size	1.1	1.2	2.1	1.3	2.2	1.4	2.3	3.2	3.3	Other
1979	476		90.00		4.00	6.00					
1980	684		92.00		1.00	1.00					6.00
1981	632		78.00		15.00	7.00					
1982	261		70.00		23.00	4.00					3.00
1983	196		87.00		11.00	2.00					
1984	715	0.10	94.70	0.50	1.40	3.20	0.10				
1985	384		74.90		13.20	9.70		2.20			
1986	135		85.20		8.90	5.20		0.70			
1987	240		93.80		5.60	0.60					
1988	214		94.00		3.70	1.90		0.40			
1989	629	0.15	31.96		48.97	16.06		2.70	0.15		
1990	713		86.40	0.14	1.54	11.78		0.14			
1991	602		89.54		6.98	3.32		0.17			
1992	628		81.53		13.38	4.62		0.48			
1993	169		79.88		8.87	10.65		0.60			
1994	653		60.17		31.25	6.44		2.14			
1995	403		63.27	0.25	12.41	20.59		3.22	0.25		
1996	759		83.13		6.72	8.96		1.19			
1997	706		77.48		17.56	3.12		1.84			
1998	619		82.55		13.89	3.39		0.16			
1999	510		89.20		6.27	4.51		0.00			
2000	730		81.92		8.49	8.36		1.23			
2001	611	0.16	63.18		20.13	12.44		3.76	0.32		
2002	1,089		72.64		18.46	7.07		1.75		0.09	
2003	159		69.81		23.9	5.66		0.63			
2004	185		66.49		18.92	12.43		2.16			
2005	[a]140										
2006	760	0.13	88.81		3.68	7.1		0.26			
2007	550		63.45		23.09	11.28		2.18			
2008	544		85.67		7.53	6.25		0.55			
Mean		0.14	78.51	0.30	13.06	7.06	0.10	1.29	0.24	0.09	4.50

[a] Samples taken were unreadable.

Table 25.–Length composition of sockeye salmon escapement in Hidden Creek, Kenai River drainage, Upper Cook Inlet, Alaska, 1979 to present.

	Mean Length by Age Class (mm)									
Year	1.1	1.2	2.1	1.3	2.2	1.4	2.3	3.2	3.3	Total
1979		540		560	550					541
1980		530		560	530					530
1981		530		560	550					536
1982		520		560	520					529
1983		530		550	530					532
1984		520		570	550					522
1985		521		573	530		584			530
1986		530		570	540					534
1987		526		537	533					527
1988		535		574	565		595			537
1989	390	535		581	535		579	576		558
1990		507		565	516		605			509
1991		512		557	521		550			515
1992		505		551	513		559			512
1993		529		568	536		620			534
1994		493		557	507		552			515
1995		514	450	559	525		559	540		523
1996		539		587	540		603			543
1997		514		566	536		585			525
1998		510		556	516		546			516
1999		499		549	502					502
2000		519		560	530		570			524
2001	415	525		564	544		560	556		537
2002		537		582	544		582		617	546
2003		517		568	532		570			530
2004		521		568	540		575			534
2005[a]										
2006	420	502		547	506		573			504
2007		537		562	520		562			542
2008		511		573	517		557			516
Mean	408	521	450	563	530		574	557	617	528

[a] Samples taken were unreadable.

Table 26.–Age composition of late run sockeye salmon escapement in the Russian River, Kenai River Drainage, Upper Cook Inlet, Alaska, 1985 to present.

	Sample	Percent Composition by Age Class (%)									
Year	Size	1.1	1.2	2.1	1.3	2.2	3.1	2.3	3.2	2.4	3.3
1996	511	1.81	1.40	23.77	6.15	41.85	0.98	20.99	2.23		0.83
1997	575		6.09	18.44	2.78	46.61		22.78	2.96		0.35
1998	435		3.68	34.71	4.37	36.09	2.07	16.55	1.84		0.69
1999	504		0.20	5.60	1.40	74.00	0.60	15.70	2.00		0.60
2000	522	0.77	2.11	25.67	11.88	29.12	0.38	28.93	0.96		0.19
2001	486	3.09	6.58	40.95	8.85	26.95	0.41	12.96			0.21
2002	498	0.20	10.64	7.23	6.02	65.06	0.20	10.64			
2003	337		2.67	11.28	9.79	58.75	1.48	14.24	1.19	0.30	0.30
2004	239		0.84	4.60	2.51	61.09	0.84	28.87	0.84	0.42	
2005	187	2.67	2.67	23.00	1.07	28.34		30.48	10.69		1.07
2006	190		7.37	21.05	6.84	36.84		26.84	0.53		0.53
2007	156		7.05	7.69	4.49	58.33		21.15	1.28		
2008	146	0.68	2.05	28.77	2.74	34.93	0.68	30.14			
Mean		1.54	4.10	19.44	5.30	46.00	0.85	21.56	2.45	0.36	0.53

Table 27.–Length composition of sockeye salmon late run escapement in the Russian River, Kenai River drainage, Upper Cook Inlet, Alaska, 1996 to present.

	Mean Length by Age Class (mm)										
Year	1.1	1.2	2.1	1.3	2.2	3.1	2.3	3.2	2.4	3.3	Total
1996	379	482	402	609	523	400	588	538		590	510
1997		495	399	585	500		571	502		583	500
1998		499	398	571	504	394	560	497		556	477
1999		537	380	578	510	403	560	518		563	511
2000	370	520	411	599	526	407	582	533		530	520
2001	388	513	389	598	528	408	592			590	480
2002	400	509	395	584	513	405	586				515
2003		509	388	595	525	404	583	499	670	580	523
2004		483	398	582	511	403	582	498	580		527
2005	382	495	394	538	509		569	508		555	498
2006		508	406	573	511		573	515		570	510
2007		510	386	572	510		570	525			516
2008	390	505	411	579	512	430	580				504
Mean	385	505	397	582	514	406	577	513	625	569	507

Table 28.–Age composition of sockeye salmon escapement in the Kasilof River, Upper Cook Inlet, Alaska, 1979 to present.

	Sample	Percent Composition by Age Class (%)											
Year	Size	0.2	1.1	0.3	1.2	2.1	1.3	2.2	1.4	2.3	3.2	2.4	Other
1979	590	0.10	0.70		58.90		28.20	10.50		1.60			
1980	899		2.10		67.00		23.10	5.00	0.10	2.70			
1981	1,479				28.90		63.60	5.90		1.60			
1982	1,518		0.80		30.60	0.20	54.40	9.30		4.70			
1983	1,997				49.51		33.14	12.86		4.49			
1984	2,269				50.50	0.20	24.80	17.90		6.60			
1985	3,063		0.20		57.30	0.10	21.80	17.80	0.10	2.60			0.10
1986	1,660	0.10			40.90	0.10	42.00	11.90	0.30	4.60		0.10	
1987	1,248		0.24		43.35	0.08	27.44	22.39		6.42	0.08		
1988	2,282		0.06		33.69	0.11	36.43	17.51	0.16	11.99		0.05	
1989	1,301				14.93	0.07	35.30	36.62	0.06	13.02			
1990	762		0.40	0.06	32.90		20.65	33.17	0.26	12.36	0.20		
1991	2,106	0.04		0.13	31.54	0.06	33.40	28.95	0.09	5.79			
1992	1,717				21.09	0.19	27.45	35.31		15.96			
1993	571		0.35		16.29	0.35	29.77	28.02		25.22			
1994	723				26.42		28.35	28.22		17.01			
1995	587		0.17		43.95		15.50	25.04		15.33			
1996	721				24.83		48.29	21.36		5.55			
1997	758				21.11		54.75	13.46		10.69			
1998	857	0.12	0.12		39.67	0.58	28.12	22.17	0.35	8.87			
1999	964				29.70	0.10	33.82	26.70	0.21	9.44	0.10		
2000	773		0.13		41.91	0.39	33.89	11.38		12.29			
2001	564		0.35		29.26	0.18	48.58	16.49	0.18	4.79	0.18		
2002	746		0.27		33.91	1.47	38.07	19.30	0.27	6.57		0.13	
2003	1,298		0.65		37.31	0.22	26.07	29.25		6.50			
2004	908		0.11		43.72	0.22	18.94	32.6	0.11	4.30			
2005	1,278		0.66		38.76	0.29	32.75	18.69		8.77	0.08		
2006	737		0.54		35.28	0.41	30.53	27.41		5.83			
2007	628		0.64		44.75	0.16	25.32	19.27		9.87			
2008	448		0.36		39.51	0.18	38.32	17.92		3.71			
Mean		0.09	0.47	0.10	36.92	0.27	33.43	20.75	0.18	8.31	0.13	0.09	0.10

Table 29.–Length composition of sockeye salmon escapement in the Kasilof River, Upper Cook Inlet, Alaska, 1979 to present.

	Mean Length by Age Class (mm)											
Year	0.2	1.1	0.3	1.2	2.1	1.3	2.2	1.4	2.3	3.2	2.4	Total
1979				467		520						484
1980				499		562						515
1981				474		545						523
1982				492		552	475		546			526
1983				479		535	483					499
1984				473		529	479		530			489
1985				482		546	490					498
1986				471		552	476					508
1987		347		471	360	552	476		544	471		498
1988		389		478	353	546	482	562	543		506	507
1989				476	357	547	479	570	536			510
1990		340	471	460		521	455	567	522	420		479
1991	408		506	464	322	525	475	530	515			491
1992				467	385	531	464		533			494
1993		415		479	385	547	482		537			514
1994				465		535	470		535			498
1995		355		487		538	488		541			503
1996				475		562	476		554			522
1997				454		548	454		536			514
1998	422	337		472	356	526	471	538	521			491
1999				476	318	542	477	555	534	456		504
2000		314		478	368	551	483		551			512
2001		318		478	495	547	477	580	550	532		515
2002		335		480	370	549	473	569	548		565	508
2003		354		481	359	546	480		541			500
2004		420		478	374	544	478	545	531			493
2005		354		469	361	543	472		539	466		499
2006		335		461	355	516	465		524			481
2007		359		466	332	542	463		522			489
2008		283		455	325	536	460		520			489
Mean	415	350	489	474	363	541	474	557	536	469	536	502

Table 30.–Age composition of sockeye salmon escapement in Crescent River, Upper Cook Inlet, Alaska, 1979 to present.

	Sample	Percent Composition by Age Class (%)										
Year	Size	1.1	0.3	1.2	2.1	1.3	2.2	1.4	2.3	3.2	2.4	3.3
1979	643	0.80		30.90	0.10	67.40	0.70	0.10				
1980	511			6.60		87.40	2.60	1.80	1.60			
1981	1,117			8.00	0.10	34.00	10.60	0.10	47.20			
1982	711			12.90		79.20	0.80	0.10	7.00			
1983	731			10.90	0.60	42.30	27.40	0.20	18.60			
1984	780			3.50		16.90	20.00		59.40	0.20		
1985	594	0.20		4.70	0.30	31.30	20.50		43.00			
1986	139			6.50		15.80	13.00		64.00	0.70		
1987	191			2.62		47.65	4.19		45.03		0.52	
1988	741			10.39	0.13	44.94	17.81	0.54	26.05	0.13		
1989	711		0.14	0.70		45.43	1.97	0.14	51.20	0.14	0.14	0.14
1990	591		0.40	3.73	0.12	48.54	3.49	0.40	43.21		0.12	
1991	357		0.56	14.85		50.42	16.81	0.28	16.53	0.28	0.28	
1992	194			2.58		21.65	12.37		61.86	1.03		0.52
1993	465	0.22		8.82	0.86	37.21	5.81		46.88		0.22	
1994	547	0.18		6.58	0.36	49.56	12.25	0.36	30.53		0.18	
1995	543	0.37		9.21	0.18	18.41	9.39	0.55	61.70			0.18
1996	393			15.27		25.44	23.92		34.86		0.51	
1997	640			10.62	0.16	55.94	6.56		26.56		0.16	
1998	577			9.88		44.54	10.05	0.35	35.18			
1999	912			21.38	0.11	39.36	9.21	0.44	29.28		0.11	0.11
2000	357			2.52		72.83	2.24		22.41			
2001	572			15.73	0.53	20.98	22.73	0.87	38.81		0.18	0.18
2002	750			19.07	0.13	33.73	11.20	0.27	35.47		0.13	
2003	1,080	0.37	0.09	14.35	0.28	51.11	13.43		20.28		0.09	
2004	489			14.11		31.29	15.95	0.20	38.04		0.20	0.20
2005	562	0.36		13.34		51.60	8.72		25.80			0.18
2006	484			14.26		42.56	7.02		36.16			
2007	458	1.09		8.30	1.31	64.41	3.49	0.22	21.18			
2008	322	0.31		17.70	2.80	53.41	9.94	0.31	15.53			
Mean		0.39	0.30	9.97	0.53	43.38	11.15	0.42	34.60	0.41	0.22	0.22

Table 31.–Length composition of sockeye salmon in Crescent River, Upper Cook Inlet, Alaska, 1979 to present.

	Mean Length by Age Class (mm)											
Year	1.1	0.3	1.2	2.1	1.3	2.2	1.4	2.3	3.2	2.4	3.3	Total
1979												
1980					557							557
1981			472		564	506		566				551
1982			511		572							563
1983			474		553	491		556				528
1984					562	503		569				554
1985					557	494		557				543
1986					559	504		564				555
1987			487		589	493		585		645		581
1988			476	338	567	491	606	572	508			547
1989		595	477		580	525	575	580	555	615	575	578
1990		600	540	340	584	521	600	593		630		584
1991		534	509		553	510	565	550	587	592		539
1992			487		546	490		559	503		540	545
1993	303		487	340	568	486		571	603			555
1994	351		464	350	554	469	573	560		510		538
1995	355		489	353	565	505	589	566			558	552
1996			487		596	506		590		593		556
1997			470	308	578	486		579		673		561
1998			483		568	507	601	572				555
1999			471	374	558	481	594	561		569	601	533
2000			462		578	463		574				572
2001			470	337	568	485	603	567		628	588	532
2002			474	405	571	498	543	574		632		545
2003	329	515	475	362	566	497		568		553		543
2004			467		554	481	552	556		544	545	531
2005	353		464		548	490		548			528	531
2006			470		542	472		556				532
2007	330		467	324	557	455	594	554				540
2008	319		445	352	558	480	609	553				523
Mean	334	561	479	349	565	492	585	567	551	599	562	549

Table 32.–Age composition of sockeye salmon escapement in Yentna River, Susitna River drainage, Upper Cook Inlet, Alaska, 1983 to present.

	Sample	Percent Composition by Age Class (%)													
Year	Size	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
1983	1,024	0.40	4.70	0.40	66.90	0.90	0.50	22.60	1.70		0.20	1.70			
1984	2,253	0.20	1.30	1.60	23.70	0.30		59.60	6.50		0.10	6.70			
1985															
1986	688	1.02		1.08	21.24	0.31		65.32	4.73		0.15	6.15			
1987	1,089	1.32	0.90	2.43	23.31			50.64	8.63		1.04	11.73			
1988	1,727	2.72	0.41	2.43	33.53	1.74		41.92	6.54		0.23	10.42		0.06	
1989	1,602	4.14	0.68	6.24	20.30	0.48		53.73	5.54		0.31	8.60			
1990	1,916	0.76	0.30	2.41	29.90	0.08		47.59	9.78		0.72	8.21	0.18	0.07	
1991	1,509	2.11	0.13	10.61	25.23	0.14	0.07	43.58	7.05		0.06	10.95		0.06	
1992	1,451	1.63	0.95	0.65	31.38	0.43		29.19	17.05		0.07	18.16	0.40	0.09	
1993	1,390	1.01	0.07	4.60	32.09	0.36		35.54	11.65			14.53		0.14	
1994	637	1.26	0.63	3.92	23.23		0.31	43.17	9.73		0.16	17.58			
1995	507	2.20	0.80	5.10	19.70	0.20		51.30	8.50		0.40	11.60	0.20		
1996	466	3.22	0.43	3.22	25.54	0.43		43.77	9.44			13.95			
1997	751	1.07	0.13	10.52	32.36	0.13		43.68	4.66		0.13	7.19			0.13
1998	1,500	0.73	0.33	5.73	15.73			62.67	4.00		0.27	10.53			
1999	444	3.60		3.38	23.42			52.03	8.56		0.90	8.11			
2000	546			5.86	8.61			61.54	3.30	0.18	0.18	20.15		0.18	
2001	475		0.84	3.37	21.26	0.42		47.79	8.42			17.68			0.21
2002	459	1.74	0.65	1.96	28.76			50.98	5.45			10.24			0.22
2003	812	0.49	0.12	2.46	16.13	0.49		63.55	6.03		0.37	10.34			
2004	460	0.65	0.65	1.09	16.96			50.00	8.26		0.65	21.74			
2005	823	0.48	1.70	4.01	22.72	0.12		54.43	6.20		0.12	10.09			0.12
2006	605	2.15	0.50	3.14	43.97			39.34	4.96		0.17	5.79			
2007	366	1.91	0.27	3.55	18.85	0.55		60.93	6.28			7.38	0.27		
2008	382	0.79	1.57	6.28	11.78	1.05	0.26	56.02	7.59		0.52	13.88	0.26		
Mean		1.55	0.82	3.84	25.46	0.48	0.29	49.24	7.22	0.18	0.34	11.34	0.26	0.10	0.17

Table 33.–Length composition of sockeye salmon escapement in Yentna River, Susitna River drainage, Upper Cook Inlet, Alaska, 1983 to present.

	Mean Length by Age Class (mm)														
Year	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	Total
1986		443	561	460	375		570	496		555	567			574	542
1987	428	321	570	480			579	487		568	576				543
1988	456	325	570	471	363		568	481		584	574		603		530
1989	442	347	568	461	340		565	485		593	557				532
1990	444	324	555	446			561	459		580	555	478	520		515
1991	452	335	558	468	346	600	551	478		570	547		605		523
1992	430	339	544	450	371		544	456		580	551	488	583		496
1993	460	340	553	472	335		554	481			550		540		517
1994	452	365	577	473		603	578	488		600	580				542
1995	435	393	563	465			556	479		527	559	473			528
1996	444	323	581	465	348		579	486			571				534
1997	425	340	580	479	330		569	475		549	565			519	534
1998	463	321	548	486			550	484		585	547				535
1999	429		568	476			569	487		563	563				535
2000			582	461			585	473	383	649	580		625		569
2001		334	569	483	365		570	485			561			580	540
2002	454	346	579	490			578	483			568			615	543
2003	453	354	550	478	358		563	480		584	555				541
2004	441	352	568	474			562	478		600	560				538
2005	457	339	560	459	341		557	473		595	545			524	524
2006	456	356	570	486			559	496		590	556				521
2007	431	353	560	466	369		563	486			555	448			535
2008	429	338	579	459	330	570	563	477		539	550	502			536
Mean	444	347	566	470	352	591	565	481	383	578	561	478	579	562	533

Table 34.–Age composition of sockeye salmon escapement at Susitna Station (RM 80.0) in the mainstem Susitna River, Upper Cook Inlet, Alaska, 1979–1992 and 2006–2008.

	Sample	Percent Composition by Age Class (%)														
Year	Size	0.1	0.2	1.1	0.3	1.2	2.1	0.4	1.3	2.2	1.4	2.3	3.2	2.4	3.3	Other
1979	830		1.40	6.60	2.40	56.20	0.60		27.80	4.10	0.10	0.80				
1980	823					50.00			36.20	4.70		5.20				3.90
1981	2,233					8.90			83.00	3.60		4.50				
1982[a]	1,032			2.30		23.50	0.50		59.60	3.30		10.80				
1983	994		0.10		0.10	63.40	0.50	0.10	33.70	1.70		0.40				
1984	970		0.80	3.40	2.20	59.30	1.00		29.30	3.30		0.70				
1985	1,592	0.10	1.10	8.10	1.10	44.60	0.50		40.50	3.30		0.70				
1986	[b]															
1987	[b]															
1988	[b]															
1989	1,147		0.32	0.19	0.82	19.91			62.14	6.79	0.06	9.45	0.32			
1990	1,093		0.10	0.20	0.80	35.30			49.45	6.95	0.25	6.85	0.10			
1991	1,564			0.05	0.60	21.07	0.05		68.28	3.97		5.98				
1992	996		0.09	0.11	0.11	23.22			37.47	25.64		13.16		0.09	0.11	
1993-2005	[b]															
2006	737		0.27		1.09	66.62			17.50	7.73		6.78				
2007	710		0.14	0.14	3.38	21.97			60.00	5.21	0.14	8.87		0.14		
2008	460		0.22		2.83	16.09			64.35	3.04	0.22	13.04		0.22		
Mean		0.10	0.45	2.34	1.40	36.43	0.53	0.10	47.81	5.95	0.15	6.23	0.21	0.15	0.11	3.90

[a] Information shown here is sum of data collected at Yentna and from Su Hydro estimate of return passing Sunshine Station (Cross, 1982).

[b] No samples were taken in this area during the indicated years.

Table 35.–Length composition of sockeye salmon escapement at Sushine Station (RM 80.0) in the mainstream Susitna River, Upper Cook Inlet, Alaska, 1989–1992 and 2006–2008.

	Mean Length by Age Class (mm)												
Year	0.2	1.1	0.3	1.2	2.1	1.3	2.2	1.4	2.3	3.2	2.4	3.3	Total
1989	409	359	574	496		577	505	600	579	538			555
1990	525	378	569	489		574	497	589	572	520			538
1991		310	539	485	475	552	494		560				536
1992	490	355	537	476		543	479		546		616	544	511
1993-2005	[a]												
2006	480		559	497		552	504		555				512
2007	435	365	560	479		558	501	645	562		605		538
2008	460		603	478		569	490	610	559		560		552
Mean	467	353	563	486	475	561	496	611	562	529	611	544	535

[a] No samples were taken in this area during the indicated years.

Table 36.–Age composition of sockeye salmon escapement in Packers Creek, Kalgin Island, Upper Cook Inlet, Alaska, 1980 to 2000 and 2007-2008.

	Sample	Percent Composition by Age Class (%)										
Year	Size	1.1	1.2	2.1	1.3	2.2	3.1	1.4	2.3	3.2	2.4	3.3
1980	373	2.70	60.60	0.20	11.30	12.30			12.90			
1981	102	3.90	73.50		15.70	2.00			4.90			
1982	341	0.30	37.00	16.40	6.70	33.40			6.20			
1983	804	0.90	24.20	2.70	28.90	40.20			3.10			
1984	1,245		3.00	5.70	16.00	69.00		0.10	6.30			
1985	1,475	0.70	2.60	15.70	3.00	60.30			17.40	0.30		
1986	1,028	1.60	6.30	12.60	3.60	44.90			30.80	0.20		
1987	1,330		1.73	12.93	3.46	60.53	0.23		19.47	1.13	0.38	0.15
1988	902	0.78	1.55	5.10	6.87	63.64	0.78	0.11	20.18	0.89		0.11
1989	711	1.55	13.43	20.86	0.28	39.23	0.14		17.17	6.63	0.14	0.56
1990	795	0.43	13.31	1.15	25.23	52.27			7.32		0.14	0.14
1991	841		33.60	0.34	34.04	6.52		0.03	25.46			
1992	492		8.11		55.17	22.92		0.20	13.59			
1993	370		2.43	0.27	16.49	24.60			56.22			
1994	901		18.92	2.78	1.78	51.92			24.57		0.01	0.01
1995	627		8.32	3.26	5.32	35.48	0.22		47.38		0.02	
1996	425	0.27		1.34	5.14	67.10			25.88			0.27
1997	509		6.09		0.59	19.25			70.93	2.55	0.39	0.20
1998	339		2.95	0.30	26.84	40.12			23.30		0.30	6.20
1999	263		5.70	4.56	1.14	75.66			12.55	0.38		
2000	556	0.18	7.19	8.63	2.70	48.39	0.18		30.75	1.80		0.18
2001-2006	[a]											
2007	614	0.16	3.58	1.79	5.54	73.13			15.47	0.33		
2008	198	0.51	9.60	0.51	2.53	52.52			34.34			
Mean		1.08	15.62	5.86	12.10	43.28	0.31	0.11	22.88	1.58	0.20	0.87

[a] No samples taken during indicated years.

Table 37.–Length composition of sockeye salmon escapement in Packers Creek, Kalgin Island, Upper Cook Inlet, Alaska, 1987 to 2000 and 2007–2008.

	Mean Length by Age Class (mm)											
Year	1.1	1.2	2.1	1.3	2.2	3.1	1.4	2.3	3.2	2.4	3.3	Total
1987		482	365	551	493	437		558	503	571	555	491
1988	336	502	379	555	516	368	563	562	516		608	517
1989	332	475	357	583	497	345		561	495	600	524	474
1990	328	466	472	550	480			546		590	425	500
1991		461	330	539	477		565	545				510
1992		466		540	468			530				516
1993		450	360	536	454			536				513
1994		432	343	520	443			530		505	500	461
1995		454	348	546	469	350		545		510		504
1996	335		343	542	456			541			520	481
1997		445		532	452			532	465	548	500	510
1998		473	359	523	464			513		562	536	496
1999		452	327	523	453			534	460			458
2000	390	422	345	543	459	395		542	468		605	475
2001-2006	[a]											
2007	342	465	332	524	460			539	446			473
2008	325	470	335	539	469			532				491
Mean	341	461	357	540	469	379	564	540	479	555	530	492

[a] No samples taken during indicated years.

Table 38.–Age composition of sockeye salmon escapement in Fish Creek, Upper Cook Inlet, Alaska, 1979 to present.

	Sample	Percent Composition by Age Class (%)												
Year	Size	0.2	1.1	0.3	1.2	2.1	1.3	2.2	3.1	1.4	2.3	3.2	2.4	3.3
1979	138		15.90		82.70		0.70	0.70						
1980	231		5.10		65.80	3.80	15.90	8.60			0.80			
1981	353		1.30		56.90		37.80	3.60				0.40		
1982	504		7.00		23.90		65.20	1.90			2.00			
1983	1,049		9.50		87.60	0.50	0.80	1.50			0.10			
1984	1,338		0.70		84.20	0.70	5.70	7.70			0.80	0.20		
1985	653		6.60		55.20	0.20	33.20	4.00			0.80			
1986	1,306		12.89		54.21	2.94	18.37	10.24		0.17	1.18			
1987	772		6.61		85.88		2.72	4.79						
1988	584		13.53		83.05	0.51	1.37	1.54						
1989	469		3.84		56.29	3.62	21.54	9.38			5.12	0.21		
1990	429		0.70		37.29	0.70	30.77	24.47	0.23		5.83			
1991	423		6.38		76.83		10.88	4.26			1.66			
1992	464		0.21		75.65	0.43	4.96	17.89			0.65	0.21		
1993	398		0.75		56.03	0.50	24.37	14.32			4.02			
1994	353		5.10		51.28	1.42	15.30	21.25			5.67			
1995	395		6.84		50.89	1.01	20.25	10.89			9.62	0.25		0.25
1996	399		0.50		70.43	0.25	9.27	16.79		0.25	2.25	0.25		
1997	541		0.18		58.78		27.73	7.95		0.18	5.18			
1998	623		0.48	0.48	6.42	0.16	75.44	4.01		0.16	12.20	0.32		0.32
1999	778		12.98		71.46	0.90	4.24	9.00		0.26	0.90	0.13	0.13	
2000	483	0.20	0.83		65.42	1.86	21.95	6.62			3.11			
2001	718		4.88	0.42	28.41	1.95	49.44	8.91	0.14		5.71	0.14		
2002	573		3.32		74.70	2.09	3.32	15.88	0.17		0.52			
2003	686		0.29		29.59	0.44	49.41	13.99		0.29	5.98			
2004	517	0.97	2.71		41.78	0.58	41.59	2.51		0.77	9.09			
2005	448		14.51	3.35	56.24	1.12	10.50	12.94			1.34			
2006	680		5.74		77.79	1.03	8.68	6.03			0.74			
2007	495		3.43		54.95	0.60	34.14	5.46			1.41			
2008	383		23.23		45.18	3.39	21.67	4.70	0.26		1.57			
Mean		0.59	5.87	1.42	58.83	1.28	22.24	8.73	0.20	0.30	3.39	0.23	0.13	0.29

Table 39.–Length composition of sockeye salmon escapement in Fish Creek, Upper Cook Inlet, Alaska, 1979 to present.

	Mean Length by Age Class (mm)													
Year	0.2	1.1	0.3	1.2	2.1	1.3	2.2	3.1	1.4	2.3	3.2	2.4	3.3	Total
1979		400		510										492
1980		450		546	489	605	565			595				550
1981		396		513		546	539				460			525
1982		[a]		532		557	550							538
1983		[a]		500		508	513							488
1984		372		497	399	552	515			571	495			500
1985		381		499	391	551	531			596				510
1986		374		505	400	571	542		519	587				502
1987		379		510		554	502							502
1988		350		478	366	568	468							461
1989		362		487	362	547	492			547	443			494
1990		374		505	371	543	489	390		540				513
1991		352		483		528	496			566				481
1992		400		477	405	528	477			520	510			480
1993		350		496	375	532	494			538				505
1994		351		468	365	524	469			521				472
1995		369		483	395	537	487			542	470		580	492
1996		348		471	340	550	486		525	543	470			481
1997		395		471		539	479		545	542				494
1998		360	542	483	405	527	478		615	534	443		538	522
1999		329		475	328	516	479		538	516	480	555		458
2000	495	349		467	352	543	471			542				483
2001		358	590	497	376	538	496	400		535	505			511
2002		358		476	364	537	481	325		508				472
2003		332		474	362	520	476		532	521				499
2004	482	364		472	360	538	484		516	538				503
2005		356	546	488	373	527	471			532				472
2006		347		480	376	525	465			525				475
2007		356		474	363	522	470			515				486
2008		343		471	352	519	459	328		519				447
Mean	489	366	559	490	377	540	494	361	541	541	475	555	559	494

[a] Length for age 1.1 sockeye not reported in 1982 and 1983 data reports.

Table 40.–Age composition of sockeye salmon escapement in Chelatna Lake (Lake Creek), Yentna River drainage, Upper Cook Inlet, Alaska, 1990 to 1998 and 2006–2008.

	Sample	Percent Composition by Age Class (%)								
Year	Size	0.2	1.1	0.3	1.2	0.4	1.3	2.2	1.4	2.3
1990	93	3.22		3.24	18.27		74.20	1.08		
1991	315			4.76	23.18		55.89	1.26		14.92
1992	260	0.39		1.93	41.15		53.46	0.77	0.39	1.54
1993	492			0.61	32.93		63.82	0.41		2.24
1994	734		0.82	4.09	8.85	0.14	82.15	0.41	0.54	3.00
1995	431		0.23	3.02	26.92		64.50	0.93	0.46	3.94
1996	548	0.55	0.18	5.11	21.17		67.88	0.73	1.82	2.55
1997	515			15.92	31.65		50.68	0.39		1.36
1998	1,122	0.27		7.13	11.23		79.94	0.09	0.27	1.07
1999-2005	[a]									
2006	112			10.71	37.50		49.11		0.89	1.79
2007	167			4.19	3.60		89.81		1.20	1.20
2008	388			0.52	2.84		96.13		0.52	
Mean		1.11	0.41	5.10	21.61	0.14	68.96	0.67	0.76	3.36

[a] No samples taken during these years.

Table 41.–Length composition of sockeye salmon escapement in Chelatna Lake (Lake Creek), Yentna River drainage, Upper Cook Inlet, Alaska, 1990 to 1998.

Year	Sample Size	Mean Length by Age Class (mm)									Total
		0.2	1.1	0.3	1.2	0.4	1.3	2.2	1.4	2.3	
1990		578		600	552		580				576
1991				556	532		562	500		559	554
1992		470		564	501		560	465	510	545	535
1993				547	453		524	505		522	501
1994			343	548	490	610	558	490	561	553	549
1995			330	567	508		569	478	565	560	551
1996	[a]										
1997				560	503		562	508		556	543
1998		489		565	503		566	515	584	568	559
1999-2005	[b]										
2006				590	515		569		600	578	552
2007				586	484		582		655	558	579
2008				563	465		551		549		549
Mean		512	337	568	501	610	562	494	575	555	550

[a] Mean lengths questionable.

[b] No samples taken during these years.

Table 42.–Age composition of sockeye salmon escapement in Cottonwood Creek, Northern District, Upper Cook Inlet, Alaska, 1981–82 and 1997–2003.

	Sample	Percent Composition by Age Class (%)							
Year	Size	1.1	1.2	2.1	1.3	2.2	3.1	2.3	3.2
1981	360	1.11	43.60		1.15	53.57	0.29		0.29
1982	438	5.47	61.92	2.03	2.28	25.78		2.08	0.44
1983-1996	[a]								
1997	424	5.19	27.13	2.59	4.47	54.72		5.67	0.23
1998	533	15.01	57.97	3.94	5.44	14.26	0.19	3.19	
1999	1,019		62.61	0.78	7.46	26.69		2.45	
2000	476	1.26	10.50	0.63	18.07	59.88		9.66	
2001	587	3.06	60.31	0.68	4.43	21.12		10.39	
2002	329	0.92	75.07	1.21	15.51	6.07		1.22	
2003	375	2.13	65.62	1.59	17.60	10.93		2.13	
Mean		4.27	51.64	1.68	8.49	30.34	0.24	4.60	0.32

[a] No samples taken for these years.

Table 43.–Length composition of sockeye salmon escapement in Cottonwood Creek, Northern Cook Inlet, Alaska, 1981–1982 and 1997–2003.

	Mean Length by Age Class (mm)								
Year	1.1	1.2	2.1	1.3	2.2	3.1	2.3	3.2	Total
1981	375	492		514	496	365		541	493
1982	342	465	384	510	463		516	482	458
1983-1996	[a]								
1997	348	459	373	520	463		513	440	459
1998	351	466	365	518	485	385	515		452
1999		463	340	507	465		509		467
2000	349	476	345	530	481		524		491
2001	333	492	345	528	480		522		488
2002	318	459	365	514	468		524		467
2003	330	463	362	515	472		519		470
Mean	343	471	360	517	475	375	518	488	472

[a] No samples taken for these years.

Table 44.–Age and length composition of sockeye salmon escapement in Larson Lake, Northern Cook Inlet, Alaska, 1997–2000 and 2005–2008.

	Sample	Percent Composition by Age Class (%)								
Year	Size	0.2	0.3	1.1	1.2	1.3	2.2	1.4	2.3	2.4
1997	344				53.49	27.33	9.30		9.88	
1998	574		0.17		13.59	48.95	13.24		24.04	
1999	161				32.30	28.57	6.21	0.62	32.30	
2000	215				1.86	82.33	3.25	0.46	12.09	
2001-2004	[a]									
2005	191				13.10	24.08	22.51		40.31	
2006	176				69.32	12.50	14.20		3.98	
2007	579			0.17	13.64	69.77	4.49	0.17	11.74	
2008	555	0.18			10.99	65.41	3.24	0.36	19.64	0.18
Mean		0.18	0.17	0.17	26.04	44.87	9.56	0.40	19.25	0.18

	Mean Length by Age Class (%)									
Year	0.2	0.3	1.1	1.2	1.3	2.2	1.4	2.3	2.4	Total
1997				487	554	482		558		512
1998		560		505	553	503		550		539
1999				503	565	509	585	558		539
2000				543	584	528	615	583		582
2001-2004	[a]									
2005				496	552	499		561		537
2006				505	560	507		566		515
2007			325	488	561	482	635	561		548
2008	400			505	561	508	608	559	601	553
Mean	400	560	325	504	561	502	611	562		541

[a] No samples taken from these dates.

Table 45.–Age and length composition of sockeye salmon escapement in Shell Lake, Northern Cook Inlet, Alaska, 2006–2008.

	Sample	Percent Composition by Age Class (%)							
Year	Size	1.1	1.2	2.1	1.3	2.2	1.4	2.3	3.3
2006	537		83.24		7.63	8.75	0.19	0.19	
2007	340		3.23		87.65	0.29		8.82	
2008	287	8.69	17.07	0.69	53.73	13.91	1.37	4.19	0.34
Mean		8.69	34.51		49.67	7.65	0.78	4.40	0.34

	Mean Length by Age Class (%)								
Year	1.1	1.2	2.1	1.3	2.2	1.4	2.3	3.3	Total
2006		484		528	484	574	555		488
2007		467		537	443		538		535
2008	354	496	342	542	500	535	544	520	511
Mean	354	482	342	536	476	555	546	520	511

Table 46.–Age and length composition of sockeye salmon escapement in Swan Lake, Northern Cook Inlet, Alaska, 2007–2008.

Year	Sample Size	Percent Composition by Age Class (%)						
		1.1	1.2	2.1	1.3	2.2	1.4	2.3
2007	413	0.49	13.55	0.24	82.82	1.69		1.20
2008	571		14.54	0.52	79.14	2.63	0.35	2.82
Mean		0.49	14.05	0.38	80.98	2.16	0.35	2.01

Year	Mean Length by Age Class (%)							
	1.1	1.2	2.1	1.3	2.2	1.4	2.3	Total
2007	337	477	328	558	479		586	544
2008		453	345	556	469	584	542	537
Mean	337	465	337	557	474	584	564	541

Table 47.–Age and length composition of sockeye salmon escapement in Byers Lake, Northern Cook Inlet, Alaska, 2007–2008.

Year	Sample Size	Percent Composition by Age Class (%) 0.3	1.2	1.3	2.2	1.4	2.3
2007	128	2.35	7.05	85.13	2.35		3.12
2008	291	2.41	6.17	84.92	0.34	0.34	5.83
Mean		2.38	6.61	85.03	1.35	0.34	4.48

Year	Mean Length by Age Class (%) 0.3	1.2	1.3	2.2	1.4	2.3	Total
2007	564	499	577	490		550	568
2008	587	510	576	518	559	585	573
Mean	576	505	577	504	559	568	571

Table 48.–Age and length composition of sockeye salmon escapement in Stephan Lake, Northern Cook Inlet, Alaska, 2007–2008.

	Sample	Percent Composition by Age Class (%)						
Year	Size	1.2	1.3	2.2	1.4	2.3	3.2	3.3
2007	522	20.32	57.28	9.76		12.65		
2008	586	6.14	48.96	10.92	0.34	33.28	0.18	0.18
Mean		13.23	53.12	10.34	0.34	22.97	0.18	0.18

	Mean Length by Age Class (%)							
Year	1.2	1.3	2.2	1.4	2.3	3.2	3.3	Total
2007	481	539	489		538			522
2008	490	545	504	585	545	466	539	537
Mean	486	542	497	585	542	466	539	530

Table 49.–Age and length composition of sockeye salmon escapement in Judd Lake, Northern Cook Inlet, Alaska, 2006–2008.

	Sample	Percent Composition by Age Class (%)						
Year	Size	1.2	2.1	1.3	2.2	1.4	2.3	3.3
2006	466	18.67		66.74	4.72		9.87	
2007	586	10.07		70.65	7.17	0.34	11.77	
2008	561	1.43	0.18	79.50	2.50	0.36	15.87	0.18
Mean		10.06	0.18	72.30	4.80	0.35	12.50	0.18

	Mean Length by Age Class (%)							
Year	1.2	2.1	1.3	2.2	1.4	2.3	3.3	Total
2006	491		555	514		555		541
2007	479		563	480	610	553		548
2008	503	336	573	478	581	557	593	567
Mean	491	336	564	491	596	555	593	552

Table 50.–Age and length composition of sockeye salmon escapement in Wasilla Creek, Northern Cook Inlet, Alaska, 1998 to 2003.

	Sample	Percent Composition by Age Class (%)									
Year	Size	0.2	1.1	1.2	2.1	1.3	2.2	3.1	2.3	3.2	3.3
1998	218		1.77	80.95	0.89	4.14	9.60		2.66		
1999	381	0.48	0.24	57.96	0.24	6.47	31.02		3.35	0.24	
2000	75		2.78	18.65	2.78	15.87	59.92		0.00		
2001	129			49.23	1.54	8.72	25.64		14.87		
2002	311		0.66	66.54	0.96	20.90	6.13		4.80		
2003	244		4.49	61.03	2.91	14.40	11.10	0.40	4.10	1.19	0.40
Mean		0.48	1.99	55.73	1.55	11.75	23.90	0.40	4.96	0.72	0.40

	Mean Length by Age Class (%)										
Year	0.2	1.1	1.2	2.1	1.3	2.2	3.1	2.3	3.2	3.3	Total
1998		382	458	375	502	461		504			459
1999	423	310	450	350	504	449		507	425		455
2000		338	493	408	525	469					477
2001			463	340	562	476		515			481
2002		318	448	342	514	452		515			463
2003		325	453	339	519	451	395	549	455	520	457
Mean	423	335	461	359	521	460	395	518	440	520	465

Table 51.–Age composition of Chinook salmon harvested in Cohoe/Ninilchik, Kalifornsky and Salamatof beaches commercial set gillnet fisheries, Upper Cook Inlet, Alaska, 1983 to 1986.

Kalifornsky		Percent Composition by Age Class (%)														
Year	Sample Size	0.2	1.1	0.3	1.2	2.1	0.4	1.3	2.2	0.5	1.4	2.3	1.5	2.4	2.5	1.6
1983	308		1.90		13.60		0.30	21.40	0.30		55.60	1.00	3.30	2.60		
1984	287		4.20	1.10	19.20		1.70	22.30			44.60		6.60	0.30		
1985	664		6.10		28.60			20.70	0.40		41.50		3.20			
1986	437	0.20	1.80	0.20	23.50	0.20	0.20	35.40			35.40	0.40	2.50	0.20		
Mean		0.20	3.50	0.65	21.23	0.20	0.73	24.95	0.35		44.28	0.70	3.90	0.78		

Salamatof		Percent Composition by Age Class (%)														
Year	Sample Size	0.2	1.1	0.3	1.2	2.1	0.4	1.3	2.2	0.5	1.4	2.3	1.5	2.4	2.5	1.6
1983	107		0.90		6.60			8.40			81.30		2.80			
1984	45				8.80			6.70			73.40		11.10			
1985	261		7.30		19.20		0.40	12.60			55.60		3.80	1.10		
1986	242			0.80	20.30			33.30	1.20		36.60	2.00	5.00	0.80		
Mean			2.73	0.80	13.73		0.40	15.25	1.20		61.73	2.00	5.68	0.95		

Cohoe/Ninilchik		Percent Composition by Age Class (%)														
Year	Sample Size	0.2	1.1	0.3	1.2	2.1	0.4	1.3	2.2	0.5	1.4	2.3	1.5	2.4	2.5	1.6
1983	442	0.20	1.10		18.50			19.90	0.20		59.50		0.40	0.20		
1984	462	0.80	4.60	0.60	18.90		2.20	22.90			41.60		7.80	0.40	0.20	
1985	1,445		6.50		26.80	0.10		19.60	0.10		45.10		1.80	0.10		
1986	645	0.20	1.20		23.70			39.60		0.20	31.20	0.40	3.30			0.20
Mean		0.40	3.35	0.60	21.98	0.10	2.20	25.50	0.15	0.20	44.35	0.40	3.33	0.23	0.20	0.20

Table 52.–Length composition of Chinook salmon harvested in Coho/Ninilchik, Kalifornsky, and Salamatof beaches commercial set gillnet fisheries, Upper Cook Inlet, Alaska, 1983 to 1986.

Kalifornsky	Mean Length by Age Class (mm)															
Year	0.2	1.1	0.3	1.2	2.1	0.4	1.3	2.2	0.5	1.4	2.3	1.5	2.4	2.5	1.6	Total
1983		400		621		936	856	547		1,029	862	1,105	1,038			822
1984		487	827	643		1,020	886			1,042		1,084	962			869
1985		413		638			869	647		1,020		1,117				784
1986	562	378	798	658	391	917	895			1,022	852	1,093	1,027			781
Mean	562	420	813	640	391	958	877	597		1,028	857	1,100	1,009			814

Cohoe/Ninilchik	Mean Length by Age Class (mm)															
Year	0.2	1.1	0.3	1.2	2.1	0.4	1.3	2.2	0.5	1.4	2.3	1.5	2.4	2.5	1.6	Total
1983	540	415		640			861	640		1,011		1,071	1,020			775
1984	668	425	779	637		1,053	840			1,041		1,114	1,074	1,192		882
1985		425		637	450		868	644		1,019		1,102	1,015			770
1986	587	382		649			890		1,042	1,022	886	1,083			841	820
Mean	598	412	779	641	450	1,053	865	642	1,042	1,023	886	1,093	1,036	1,192	841	812

Salamatof	Mean Length by Age Class (mm)															
Year	0.2	1.1	0.3	1.2	2.1	0.4	1.3	2.2	0.5	1.4	2.3	1.5	2.4	2.5	1.6	Total
1983		518		614			948			1,034		1,069				837
1984				653			804			1,044		1,107				902
1985		440		614			881			1,018		1,112	1,095			860
1986			796	632			889	690		1,037	853	1,100	1,029			878
Mean		479	796	628			881	690		1,033	853	1,097	1,062			869

Table 53.–Age composition of Chinook salmon harvested in the Central District, Upper Subdistrict commercial set gillnet fisheries, Upper Cook Inlet, Alaska, 1987 to present.

	Sample	Percent Composition by Age Class (%)													
Year	Size	0.2	1.1	0.3	1.2	2.1	0.4	1.3	2.2	1.4	2.3	1.5	2.4	2.5	1.6
1987	1,212	0.08	2.06	0.08	14.69			33.01	0.17	48.50	0.25	1.07	0.08		
1988	870		3.22		10.81		0.23	14.25	0.35	68.50	0.12	1.83	0.69		
1989	854		0.94		15.11			21.08	0.23	53.28		9.37			
1990	429		1.16	0.24	29.06	0.94	0.24	29.31	0.46	33.22	0.48	3.26	1.62		
1991	446	0.22	0.67		24.90	0.22	0.45	32.06		38.54	0.67	2.02	0.22		
1992	688		2.46		14.97			27.62	0.58	49.56	0.88	3.78	0.15		
1993	992		3.33		14.01			20.76	0.10	56.46	0.80	4.04	0.50		
1994	1,502		3.53		12.28	0.08		14.67	0.25	61.28	0.45	5.81	1.59		0.05
1995	1,508		2.73		22.35	0.09		32.88	0.76	34.95	0.11	5.9	0.19	0.05	
1996	2,186		3.25		15.83	0.06		34.87	0.15	42.34	1.55	1.49	0.46		
1997	1,691		6.38		13.51	0.27		31.08	0.27	45.64	0.72	0.73	1.40		
1998	911	0.46	11.75	0.22	23.18	0.34	0.10	21.06	1.57	38.38	0.54	1.87	0.56		
1999	1,818	0.05	2.32		26.30	0.16		24.52		43.46	0.40	2.78			
2000	991		9.15	0.08	12.19	0.88		38.65	0.33	37.61	0.27	0.77	0.08		
2001	989		11.68		40.04			14.53		32.52		1.23			
2002	1,224		10.60	0.04	29.28			36.68		22.57		0.71	0.12		
2003	678		3.83		51.77			23.60	0.3	18.73		1.77			
2004	1,409		3.54		19.83	0.07		48.22		27.64	0.04	0.67			
2005	482	0.21	2.90		26.97			20.13	0.42	47.50		1.66	0.21		
2006	560		12.86		35.35			21.96	0.18	27.14		2.5			
2007	789		4.82		42.71			22.44	0.13	28.51		1.27	0.13		
2008	380		10.27		19.73			27.64		40.78		1.59			
Mean		0.20	5.16	0.13	23.40	0.31	0.26	26.86	0.39	40.78	0.52	2.55	0.53	0.05	0.05

Table 54.–Length composition of Chinook salmon harvested in the Central District, Upper Subdistrict commercial set gillnet fisheries, Upper Cook Inlet, Alaska, 1987 to present.

	Mean Length by Age Class (mm)														
Year	0.2	1.1	0.3	1.2	2.1	0.4	1.3	2.2	1.4	2.3	1.5	2.4	2.5	1.6	Total
1987	658	408	963	614			873	598	1008	833	1067	1020			893
1988		399		647		894	820	581	992	1008	957	952			909
1989		451		673			825	895	992		1037				898
1990	470	560	720	609	545	890	772	650	979	845	969	986			775
1991	595	461		626	390	1025	822		976	867	1054	1030			835
1992		442		613			784	751	974	825	1052	940			855
1993		419		632			826	615	990	818	1047	970			887
1994		420		661	560		867	733	1018	844	1089	1027		1230	933
1995		422		646	410		895	665	1026	918	1107	1055	1200		883
1996		410		625	405		871	661	1018	857	1098	1076			883
1997		426		632	412		858	608	1003	868	1055	995			868
1998	591	443	780	644	445	980	838	654	994	880	1045	934			806
1999	695	414		626	431		808		968	783	1055				827
2000		413	765	631	421		846	710	989	878	1064	1150			832
2001		422		614			820		985		1054				748
2002		422	910	640			871		989		1057	1080			784
2003		434		640			859	655	1017		1102				763
2004		428		645	438		866		1010	743	1093				848
2005	635	408		594			814	610	985		1090	1070			828
2006		440		581			806	690	978		1102				733
2007		430		600			800	645	954		1046	940			743
2008		424		593			825		982		1097				806
Mean	607	432	828	627	446	947	835	670	992	855	1061	1015	1200	1230	834

Table 55.–Age and length composition of Chinook salmon harvested in the Central District, Western Subdistrict commercial set gillnet fishery, Upper Cook Inlet, Alaska, 1980–1985.

	Sample	Percent Composition by Age Class (%)										
Year	Size	0.1	1.1	1.2	0.4	1.3	2.2	1.4	2.3	1.5	2.4	
1980				19.70		12.20		68.10				
1983	330			19.70		38.10		40.70	0.30	0.60	0.60	
1984	225		0.40	16.90		35.10		43.60		3.10	0.90	
1985	308	0.70	0.30	16.60	0.30	33.60	0.30	37.10	3.60		7.50	
Mean		0.70	0.35	18.23	0.30	29.75	0.30	47.38	1.95	1.85	3.00	

	Mean Length by Age Class (mm)										
Year	0.1	1.1	1.2	0.4	1.3	2.2	1.4	2.3	1.5	2.4	Total
1980	[a]										
1983			601		816		924	765	1,065	911	847
1984		420	625		839		960		1,133	863	807
1985	492	469	623		808	588	964	841		972	720
Mean	246	445	462		616	294	712	803	1,099	915	791

[a] Length data not available.

Table 56.–Age and length composition of Chinook salmon harvested in the Northern District, Eastern Subdistrict commercial set gillnet fishery, Upper Cook Inlet, Alaska, 1986–1991.

	Sample	Percent Composition by Age Class (%)									
Year	Size	0.2	1.1	1.2	0.4	1.3	2.2	1.4	2.3	1.5	2.4
1986	206	1.00		27.70		44.50	2.00	23.30		1.50	
1987	238[a]	0.42		19.75	0.42	44.12	2.10	27.73	4.20	0.84	0.42
1988	168		0.59	15.48		32.74		50.60			0.59
1989	323			32.80		33.70		31.30		2.20	
1990	347			15.88		39.75	0.28	39.75	2.61	1.17	0.56
1991	245			29.04		32.64	2.07	34.99	0.81		0.45
Mean		0.71	0.59	23.44	0.42	37.91	1.61	34.61	2.54	1.43	0.51

	Mean Length by Age Class (mm)										
Year	0.2	1.1	1.2	0.4	1.3	2.2	1.4	2.3	1.5	2.4	Total
1986	560		619		810	607	934		984		752
1987	512		553	1,033	818	575	941	814	1,042	1,040	814
1988		400	568		791		917			925	720
1989			564		763		894		1,052		818
1990			556		763	482	914	681	1,021	843	751
1991			571		771	574	890	780		890	746
Mean	536	400	572	1,033	786	560	915	758	1,025	925	767

[a] Sampling conducted during 1 June-15 June only.

Table 57.–Age and length composition of Chinook salmon harvested in the Northern District, General Subdistrict commercial set gillnet fishery, Upper Cook Inlet, Alaska, 1983–1991.

	Sample	Percent Composition by Age Class(%)									
Year	Size	0.2	1.1	1.2	0.4	1.3	2.2	1.4	2.3	1.5	2.4
1983	41			22.00		41.50		36.50			
1984											
1985	40			2.50	27.50		35.00	2.50	30.00		2.50
1986	694	0.10	0.70	24.10		44.00	0.70	26.60	1.60	0.60	1.60
1987	437[a]		0.46	19.45		43.71	0.92	34.55	0.46	0.23	0.23
1988	309			14.89		27.51		56.31	0.32	0.65	0.32
1989	349		0.60	15.20		33.50		50.40		0.30	
1990	360		1.40	20.82		41.67		34.72		1.40	
1991	378			28.31		36.24		35.44			
Mean		0.10	0.79	18.41	27.50	38.30	12.21	34.63	8.10	0.64	1.16

	Mean Length by Age Class										
Year	0.2	1.1	1.2	0.4	1.3	2.2	1.4	2.3	1.5	2.4	Total
1983			601		816		924	765	1,065	911	847
1984											
1985		356	586		760	682	973		1,074		739
1986	680	521	630		843	635	961	829	1,006	956	785
1987		410	604		822	590	947	798	945	930	756
1988			616		814		944	755	978	860	828
1989		374	597		784		912		926		719
1990		460	593		807		935		940		747
1991			568		790		907				755
Mean	680	424	599		805	636	938	787	991	914	772

[a] Sampling conducted only during 1 June- 15 June.

Table 58.–Age composition of coho salmon harvested in the Central district commercial drift gillnet fishery, Upper Cook Inlet, Alaska, 1983 to present.

		Percent Composition by Age Class (%)			
Year	Sample Size	1.1	2.1	3.1	Total
1983	2,908	19.20	74.10	6.70	100
1984	2,202	13.90	70.10	16.00	100
1985	2,180	17.50	62.90	19.55	100
1986	711	5.20	75.50	19.30	100
1987	283	14.49	56.54	28.97	100
1988	944	15.15	77.01	7.84	100
1989	[a]				
1990	1,660	16.02	78.32	5.52	100
1991	833	9.10	85.54	5.59	100
1992	1,333	9.88	84.80	5.15	100
1993	1,064	6.36	80.39	13.25	100
1994	945	9.85	79.66	10.50	100
1995	966	8.18	82.51	9.32	100
1996	561	17.82	72.37	9.80	100
1997	389	17.22	77.64	5.14	100
1998	276	14.49	77.54	7.97	100
1999	612	15.52	73.85	10.62	100
2000	846	7.97	79.29	12.75	100
2001	852	7.37	76.63	16.00	100
2002	419	7.16	83.77	9.07	100
2003	831	11.65	74.87	13.48	100
2004	405	11.60	76.79	11.61	100
2005	420	19.76	73.33	6.91	100
2006	469	8.53	83.16	8.32	100
2007	410	11.95	79.02	9.02	100
2008	416	15.38	77.64	6.97	100
Mean		12.45	76.53	11.01	

[a] Drift fishery closed due to the presence of oil in Cook Inlet from the M/V Exxon Valdez oil spill that occurred in Prince William Sound.

Table 59.–Length composition of coho salmon harvested in the Central District commercial drift gillnet fishery, Upper Cook Inlet, Alaska, 1983 to present.

	Mean Length by Age Class (mm)			
Year	1.1	2.1	3.1	Total
1983	553	561	573	560
1984	547	566	571	564
1985	546	562	574	564
1986	548	553	565	555
1987	536	554	574	557
1988	533	559	574	557
1989 [a]				
1990	538	552	567	550
1991	509	544	559	541
1992	535	553	568	552
1993	520	541	564	543
1994	547	570	585	570
1995	527	542	560	543
1996	531	556	572	553
1997	540	570	594	566
1998	560	567	579	567
1999	521	541	563	540
2000	544	571	598	572
2001	537	551	589	556
2002	537	557	571	557
2003	527	554	579	554
2004	543	573	598	572
2005	529	548	567	546
2006	538	558	568	557
2007	538	555	575	555
2008	567	583	605	582
Mean	538	558	576	557

[a] Drift fishery closed due to the presence of oil in Cook Inlet from the M/V Exxon Valdez oil spill that occurred in Prince William Sound.

Table 60.–Age composition of coho salmon harvested in the Central District, Upper Subdistrict commercial set gillnet fishery, Upper Cook Inlet, Alaska, 1983 to present.

		Percent Composition by Age Class (%)			
Year	Sample Size	1.1	2.1	3.1	Total
1983	1,121	14.00	73.80	12.20	100
1984	1,727	7.60	67.30	25.10	100
1985	738	12.40	56.60	31.10	100
1986	[a]				
1987	199	14.57	60.30	25.13	100
1988	409	6.85	79.22	13.94	100
1989	1,423	17.43	70.38	12.19	100
1990	1,135	18.32	77.54	4.04	100
1991	1,225	12.24	81.58	5.72	100
1992	1,261	14.39	80.37	5.21	100
1993	1,098	8.73	79.73	11.53	100
1994	1,216	9.46	76.97	13.57	100
1995	1,002	6.82	77.70	15.49	100
1996	817	10.4	78.58	11.02	100
1997	425	14.11	77.89	8.00	100
1998	431	5.57	79.58	14.62	100
1999	466	9.44	69.75	20.81	100
2000	488	7.79	68.65	23.36	100
2001	146	6.85	79.44	13.71	100
2002	554	5.96	76.71	17.33	100
2003	560	8.03	73.39	18.57	100
2004	509	8.25	75.84	15.91	100
2005	456	14.7	75.21	9.87	100
2006	314	7.64	78.98	13.38	100
2007	479	9.81	78.50	11.69	100
2008	[a]				
Mean		10.47	74.75	14.73	

[a] Not sampled in 1986 or 2008.

Table 61.–Age and length composition of coho salmon harvested in the Central District, Upper Subdistrict commercial set gillnet fishery, Upper Cook Inlet, Alaska, 1983 to present.

	Mean Length by Age Class (mm)			
Year	1.1	2.1	3.1	Total
1983	560	593	600	591
1984	565	589	620	595
1985	563	592	605	587
1986[a]				
1987	544	578	564	570
1988	544	587	618	589
1989	517	561	590	559
1990	533	554	562	551
1991	514	548	567	545
1992	538	557	582	556
1993	509	538	556	537
1994	565	601	629	601
1995	538	556	583	559
1996	549	577	595	576
1997	521	547	555	544
1998	576	595	613	596
1999	523	542	568	546
2000	526	569	601	574
2001	511	543	574	545
2002	539	567	590	554
2003	523	545	576	549
2004	541	571	592	572
2005	530	549	572	549
2006	522	550	552	548
2007	516	551	581	551
2008[a]				
Mean	536	565	585	564

[a] Not sampled in 1986 or 2008.

Table 62.–Age and length composition of coho salmon harvested in the Central District, Western Subdistrict, commercial set gillnet fishery, Upper Cook Inlet, Alaska, 1983–2008.

	Sample	Percent Composition by Age Class (%)						
Year	Size	1.1	2.1	3.1	1.2	2.2	Other	Total
1983	1,580	15.00	79.70	5.30				100
1984	1,087	31.90	59.00	9.00				100
1985	1,238	31.90	60.40	7.70				100
1986	[a]							
1987	[a]							
1988	380	17.63	74.47	7.89				100
1989	440	36.10	58.00	1.40			4.50	100
1990	427	14.49	78.27	4.21	1.17	1.87		100
1991	[a]							
1992	153	24.83	70.59	3.92	0.65			100
1993	505	13.47	84.75	1.77				100
1994-2008	[a]							
Mean		21.33	72.06	5.69	0.91	1.87	4.50	

		Mean Length by Age Class (mm)						
Year		1.1	2.1	3.1	1.2	2.2	Other	Total
1983		560	566	577				565
1984		550	562	565				558
1985		566	570	575				569
1986	[a]							
1987	[a]							
1988		546	578	600				574
1989		518	546	583			562	537
1990		532	548	521	513	537		544
1991	[a]							
1992		523	554	567	550			547
1993		506	529	554				526
1994-2008	[a]							
Mean		538	557	571	532	537	562	554

[a] No samples were taken in this area during the indicated years.

Table 63.–Age composition of coho salmon harvested in the Northern District, General Subdistrict commercial set gillnet fishery, Upper Cook Inlet, Alaska, 1983 to present.

Year	Sample Size	Percent Composition by Age Class (%) 1.1	2.1	3.1	Total
1983	450	22.00	74.00	4.00	100
1984[a]					
1985	602	23.50	68.90	7.60	100
1986[a]					
1987[a]					
1988	452	12.61	80.31	6.86	100
1989	1,040	22.03	71.68	6.28	100
1990	654	12.59	83.21	4.21	100
1991	1,103	16.29	81.93	1.51	100
1992	580	12.59	83.97	3.28	100
1993	849	9.67	82.51	7.82	100
1994	1,025	13.32	78.25	8.43	100
1995	1,313	8.38	83.63	8.00	100
1996	737	23.34	72.59	3.93	100
1997	595	16.13	79.50	4.37	100
1998	391	14.07	77.49	8.44	100
1999	754	10.48	80.10	9.42	100
2000	661	12.37	81.61	6.03	100
2001	416	7.45	83.41	9.14	100
2002	401	4.99	85.29	9.72	100
2003	236	7.62	80.51	11.87	100
2004	415	15.18	78.79	6.02	100
2005-2007[a]					
2008	150	6.67	83.33	10.00	100
Mean		13.52	79.36	6.83	

[a] No samples were taken in this area during the indicated years.

Table 64.–Mean length composition of coho salmon harvested in the Northern District, General Subdistrict commercial set gillnet fishery, Upper Cook Inlet, Alaska, 1983 to present.

	Mean Length by Age Class (mm)			
Year	1.1	2.1	3.1	Total
1983	525	558	589	552
1984[a]				
1985	546	562	574	559
1986[a]				
1987[a]				
1988	538	558	564	556
1989	507	550	576	542
1990	538	557	549	554
1991	516	546	565	541
1992	529	542	558	541
1993	519	531	556	532
1994	554	581	601	579
1995	525	550	575	550
1996	534	554	585	551
1997	540	554	571	552
1998	548	560	577	560
1999	500	533	545	530
2000	555	559	590	560
2001	528	549	568	549
2002	544	553	568	554
2003	541	547	564	548
2004	540	554	568	553
2005-2007[a]				
2008	540	564	595	565
Mean	533	553	572	551

[a] No samples were taken in this area during the indicated years.

Table 65.–Mean age composition of chum salmon harvested in the Central District, commercial drift gillnet fishery, Upper Cook Inlet, Alaska, 1983 to present.

Year	Sample Size	Percent Composition by Age Class (%)			
		0.2	0.3	0.4	0.5
1983	4,126	2.10	56.70	41.00	0.20
1984	3,372	12.20	77.60	9.50	0.70
1985	3,224	6.00	75.00	18.80	0.20
1986	578		86.70	13.10	0.20
1987	688	5.02	42.80	51.77	0.41
1988	1,507	3.72	75.32	19.51	1.39
1989	[a]				
1990	2,006	3.28	73.09	22.36	1.27
1991	926	7.91	76.59	15.44	0.06
1992	1,616	0.49	67.22	32.24	
1993	1,139	2.09	65.28	31.46	1.16
1994	1,005	4.72	56.83	38.24	0.22
1995	1,121	0.47	90.23	7.99	1.31
1996	844	0.96	27.69	70.57	0.78
1997	736	1.50	76.09	18.75	3.67
1998	455	0.66	86.37	12.75	0.22
1999	945	0.38	79.12	20.50	
2000	981	0.10	90.22	9.68	
2001	919	4.80	16.48	78.61	0.11
2002	888	1.81	97.10	0.95	0.14
2003	937	0.37	76.76	22.87	
2004	893	1.61	52.32	46.04	0.03
2005	836	0.23	70.94	28.09	0.74
2006	433		52.89	46.88	0.23
2007	638	1.10	75.08	23.04	0.78
2008	385	2.08	55.58	40.78	1.56
Mean		2.77	68.00	28.84	0.73

[a] Drift fishery closed due to presence of oil in Cook Inlet from the M/V Exxon Valdez oil spill that occurred in Prince William Sound.

Table 66.–Mean length composition of chum salmon harvested in the Central District commercial drift gillnet fishery, Upper Cook Inlet, Alaska, 1983 to present.

		Mean Length by Age Class (mm)				
Year		0.2	0.3	0.4	0.5	Total
1983		548	590	608		597
1984	[b]					
1985	[b]					
1986	[b]					
1987		508	570	594	590	580
1988		525	589	622	556	593
1989	[a]					
1990		539	566	601	611	573
1991		521	562	582	599	562
1992		536	559	586		567
1993		528	548	568	580	554
1994		548	584	602	629	589
1995		582	590	611	620	592
1996		555	604	617	631	613
1997		574	605	622	641	609
1998		573	596	615	605	598
1999		558	615	633		618
2000		512	611	646		614
2001		556	602	618	653	612
2002		556	602	606	638	601
2003		544	567	594		573
2004		548	589	604	639	595
2005		528	596	619	644	603
2006			617	630	662	623
2007		568	590	604	642	593
2008		563	605	624	641	613
Mean		546	589	609	622	594

[a] Drift fishery closed due to presence of oil in Cook Inlet from the M/V *Exxon Valdez* oil spill that occurred in Prince William Sound.

[b] Length data was unavailable.

Table 67.–Age and length of chum salmon escapement in Little Susitna River, Northern District, Upper Cook Inlet, Alaska, 1999 to 2003.

	Sample	Percent Composition by Age Class (%)					
Year	Size	0.2	0.3	0.4	1.3	0.5	Other
1999	396		20.97	77.26		1.77	
2000	458		84.93	14.63		0.44	
2001	770	1.69	32.99	65.06		0.26	
2002	563	3.02	92.72	3.38		0.89	
2003	250		72.80	27.20			
Mean		2.36	60.88	37.51		0.84	

	Mean Length by Age Class (mm)						
Year	0.2	0.3	0.4	1.3	0.5	Other	Total
1999		603	637		696		631
2000		613	632		675		616
2001	553	584	615		635		604
2002	587	593	615		625		594
2003		559	594				569
Mean	570	590	619		658		603

Table 68.–The percent female of sockeye salmon observed in commercial gillnet fisheries and escapements of Upper Cook Inlet, Alaska, 1990 to present.

		Percent Composition by Age Class (%)														
Location	Year	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	Total
CENTRAL DISTRICT																
Central Drift	1990	25		65	34	0	0	58	44		51	57	61	50	70	55
	1991			42	24	0	58	56	30		19	48	100			48
	1992	0		59	29			56	34		3	56		100		55
	1993	32	100	53	41	33		56	46	0	58	57	71	65	99	55
	1994	0		58	27	0		54	38		52	53	61	48		51
	1995	0		60	44	0		63	47		60	59	37	100		56
	1996	17		57	36	100		56	42		35	54	0	18		53
	1997	0		49	31			58	32		33	57		0	74	55
	1998	51		50	33	100		56	42		49	53	16	70	31	50
	1999	0		71	37			53	46		40	50	74	70	74	50
	2000	4		76	30			55	42		39	56	61	0	0	52
	2001	0		67	32			53	54		48	48	100	0	100	51
	2002	0		64	57			56	61		43	57	100	85		57
	2003	76		67	49	100	0	62	64		48	65		19	100	62
	2004	46		74	50			57	57		21	55	10	65	100	56
	2005			43	37			63	36		70	61	100	0	41	61
	2006	26		58	43	100		53	44		32	52		28	100	51
	2007	65	81	52	38			54	48		46	58	100	45	69	53
	2008			64	43			56	46		46	52		100		54
Mean		21	91	59	38	48	19	57	45	0	42	55	64	48	72	54

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Table 68.–Page 2 of 16.

Location	Year	Percent Composition by Age Class (%)														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	
Cohoe/Ninilchik Beach	1990		100	49	41			50	37		14	48	0	73		45
	1991	0	0	85	35			52	35		59	51				43
	1992	0	100	50	48	55		53	45			52			0	52
	1993			74	43	26		50	48		41	49	0	47	0	48
	1994			100	46	50		60	51		32	55	0	33		55
	1995			37	43			50	51		39	51	18			48
	1996			90	45	0		48	48		74	42		26		47
	1997		0	76	41			53	45		52	49	59	100		50
	1998	100		53	40	67		54	47		72	51	100	0	85	48
	1999	44		76	38			55	47		56	55		100	0	49
	2000	0	50	76	41	59		50	43		33	45	80			45
	2001		0	54	43	100		56	50		77	49	100	100	100	51
	2002	8	68	100	48	29		54	46		24	52	50			51
	2003		100	36	41	52		55	42		50	55	100	67	100	50
	2004	0	0	67	47	28		50	47	100	47	49		64		48
	2005		45	38	41	67		56	50		37	54	43	0		54
	2006		79	67	39			51	38		33	49	100			45
	2007	78	100	51	49	26		51	44		41	53		43		51
	2008	0		64	44			55	50		48	49			100	52
Mean		26	54	65	43	47		53	45	100	46	50	54	54	55	49

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Table 68.–Page 3 of 16.

Location	Year	Percent Composition by Age Class (%)														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	
Kalifornsky Beach	1990			2	26			51	25		43	44	100	80	0	45
	1991			49	42			53	46		0	52				49
	1992			100	37	100		54	46			54		97		52
	1993	0		39	54	0		58	49		68	57		21	90	56
	1994			48	46	50	100	57	49		71	59		67	95	55
	1995			50	37			39	41		28	45	42	51		41
	1996		0	100	47	100		54	59		0	58	0	44	100	54
	1997			76	48	100		53	41		14	53	100			51
	1998				47	100		58	58		67	61	0	50		55
	1999			100	43			56	51		46	51	100	33		52
	2000			27	33			48	36		44	48	100	100		44
	2001			100	43	100		52	43		33	50	100	15	57	50
	2002		55	100	42	63	100	53	42		49	59				49
	2003	0	53	70	43	20		53	49		31	53	100			51
	2004	0		89	48	14		52	52	50	51	54	0	32	94	51
	2005	0	100	52	40			53	45		67	53	89	65	100	51
	2006		50	66	41	65		52	41		47	49		64		47
	2007	45	64	45	44	15		50	45		28	48	55	44	100	48
	2008			48	34			46	41		29	41	0	0		43
Mean		9	54	65	42	61	100	52	45	50	40	52	60	51	80	50

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Table 68.–Page 4 of 16.

Location	Year	Percent Composition by Age Class (%)														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	
Salamatof Beach	1990			67	21	0		53	46		27	55	43	83	100	50
	1991			63	43	0		55	49		55	58		0		52
	1992	0	0	60	39	0		52	38		68	48		0		50
	1993		100	99	42	70		52	50	0	52	51		79	0	51
	1994			65	31	0		61	69	0	63	54	96	0		59
	1995		71		28			35	36		22	35			0	34
	1996			13	43	100		49	41		33	50		0		48
	1997			0	49			54	56		0	55				54
	1998	100		100	40	100		65	59		83	61	53	100	100	60
	1999	0		51	43	100		58	59		55	57	100	57	0	56
	2000			32	24			47	32		60	44	56		0	43
	2001	0	100	8	47	50		50	72		19	45				49
	2002	0	0	40	44	50		50	64		46	53	100			50
	2003	0		43	31	64		54	39		49	49				50
	2004	0		100	43	0		52	52	100	27	48	100	41	0	51
	2005	85	34	63	31	53		54	40		31	53	100	100	100	53
	2006	16		41	32			50	46		65	52		100	50	49
	2007			45	53	44		52	60		26	52		39		52
	2008	0		31	22			40	38		15	38	0	0	0	37
Mean		20	51	51	37	45		52	50	33	42	50	72	46	35	50

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Table 68.–Page 5 of 16.

Location	Year	Percent Composition by Age Class (%)														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	
Western Subdistrict	1990				17			57	15		67	48		50	100	48
	1991	0			13		0	48	32		100	50				45
	1992		100	100	42	100		45	34			44				43
	1993				39			36	41			33	0			37
	1994[a]															
	1995[a]															
	1996[a]															
	1997[a]															
	1998			33	46	100		37	47			37	29		0	44
	1999				42			58	55			38				49
	2000[a]															
	2001				65			61	91			49			40	58
	2002			0	56			42	51			56	50			46
	2003			75	50	33		61	58		50	59			100	59
	2004				42			57	56		29	47	0			52
	2005			0	47			56	55			57				55
	2006	100	100	28	42			54	41			52		100		50
	2007			100	51			48	48			54				49
	2008			100	26			53	50		100	41	100	0		48
Mean		50	100	55	41	78	0	51	48		69	48	36	50	60	49

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Table 68.–Page 6 of 16.

Location	Year	Percent Composition by Age Class (%)														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	
NORTHERN DISTRICT																
Eastern Subdistrict	1990	100	64	48	41	26		52	44		0	56	57		50	49
	1991	0	0	17	53	0		61	49		100	59	49		0	54
	1992[a]															
	1993	50	93	61	54	81		63	61		23	49				57
	1994	0	66	48	47	71		56	45		0	50	100			50
	1995		0	12	47	0		43	48		27	48	100			45
	1996	0	21	100	61	40		58	66		0	61	100	0		62
	1997			28	51	50		45	52			46	50		0	47
	1998	40	0	30	52	40		55	43			45	72			50
	1999	33		57	36			47	37		0	44	33			40
	2000	100	84	35	50	100		56	63		40	55	70	0	100	56
	2001	0	50	59	38	38		58	48		0	52	64		77	51
	2002	0	100	50	49	100		52	54		34	54	50		100	52
	2003			50	46	0		60	53			52				50
	2004	100	0	67	43			53	42			33	0		100	46
	2005	0	50	60	44	0		60	59			60	0		66	54
	2006		25	40	46			46	54		30	57	100			48
	2007	0			52			46	63			63				49
	2008	0		100	34	0		42	39		67	47				42
Mean		30	43	51	47	39		53	51		27	52	60	0	62	50

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Table 68.–Page 7 of 16.

Location	Year	Percent Composition by Age Class (%)														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	
General Subdistrict	1990	0		69	47			70	49		63	76		71		66
	1991			53	28			50	34		6	50	100		100	48
	1992	46		61	44	0		59	35		33	59		100		56
	1993	0	100	66	43	100		52	49		75	57	100	0	100	52
	1994	21		45	36			51	44		50	45				46
	1995	50		46	42			53	46		0	50				51
	1996	50		55	43			57	52		28	52				54
	1997	50		55	48			49	47			55				50
	1998	33		46	41		0	50	35		33	48		100		47
	1999	0		40	42			37	41		100	41			100	40
	2000	100		63	41			58	44		100	54	100		100	56
	2001	100		38	44			49	22		33	43	100	100	100	46
	2002	0		40	47			58	50			53				53
	2003	50		46	54			56	43			48				54
	2004	100		67	66			47	45		33	50		100		50
	2005			40	42			45	18		100	45	100			44
	2006[a]															
	2007[a]															
	2008	100	0	57	50	0		46	48		0	52		50	100	48
Mean		47	50	52	45	33	0	52	41		47	52	100	74	100	51

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Table 68.–Page 8 of 16.

Location	Year	Percent Composition by Age Class (%)														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 TOTAL																
UPPER COOK INLET	1990	0		65	33	3	0	57	41		43	55	59	65	53	53
	1991	0	0	46	33	0	55	55	36		26	50	78	0	62	47
	1992	4	15	61	35	39		55	39		18	55	0	70		53
	1993	20	95	58	44	49		55	47	0	55	55	44	57	58	53
	1994	0	66	57	46	46	100	56	48	0	53	54	81	44	95	53
	1995	25	13	53	41	0		56	47		48	54	37	72	76	51
	1996	20	8	51	40	83		54	47		37	52	2	22	100	51
	1997	29	0	50	39	91		56	41		28	55	65	8	73	53
	1998	0	0	50	39	73	0	56	48		60	54	53	71	41	51
	1999	6		69	39	100		54	49		45	51	76	57	53	50
	2000	9	72	68	33	75		53	41		45	52	69	12	12	49
	2001	4	16	66	40	71		53	51		42	48	99	36	68	51
	2002	0	61	60	50	39	100	54	53		41	56	86	85	100	53
	2003	0	58	61	42	46	0	59	49		46	59	100	23	100	56
	2004	42	0	75	48	22		55	52	84	28	53	50	58	57	53
	2005	74	41	49	38	56		59	44		57	57	87	28	56	57
	2006	14	78	53	48	48		51	47		45	52	20	35	71	50
	2007	47	79	51	44	26		53	49		37	55	46	43	39	52
	2008			56	42	10		52	47	100	37	48	18	13	36	50
Mean		16	38	58	41	46	43	55	46	46	42	53	56	42	64	52

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Table 68.–Page 9 of 16.

Location	Year	Percent Composition by Age Class (%)														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	
CENTRAL DISTRICT																
Kenai River	1990		24	93	42	24		46	53		15	41	62	0		45
	1991	0	0	57	48	39	75	56	54		29	50	0	0		51
	1992	0			67	100		66	59		70	66				66
	1993	0	67	67	52	59		61	57	0	58	58	0	100		58
	1994	0	25	100	48	36		55	72	100	30	55	50	75		57
	1995		50	67	49	59		57	51		100	49		0		52
	1996			50	36	20		53	57	100	50	51	100	50		51
	1997		0	100	53	50		49	56		25	58	100	100		51
	1998		100		50	46		49	58	100	22	51	100	0	0	50
	1999			50	35	56		50	69	0	67	47	86	100		51
	2000			40	48	53		51	36		33	48	50	67		48
	2001		100		46	33		53	72		40	53			0	53
	2002	50		100	46	44		53	55	0	41	50	50	33	0	51
	2003	53	0	33	51	50		57	63	100	0	55				56
	2004			20	50	50		55	68		0	50	0	50	67	55
	2005	0		58	55	28		56	66		39	49	88	0		55
	2006			50	45	80		53	65		52	57	100	20	100	54
	2007				53	60		48	67		9	56	100	60	100	49
	2008			0	48	75		54	66		27	40		0		51
Mean		15	41	59	49	51	75	54	60	57	37	52	63	41	45	53

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Table 68.–Page 10 of 16.

Location	Year	Percent Composition by Age Class (%)														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	
Kasilof River	1990		0	0	42			56	53		100	51	100			50
	1991	0		100	48	0		44	51		0	52				48
	1992				51	25		50	61			52				54
	1993		100		57	50		41	64			54				53
	1994				50			50	53			60				53
	1995		0		55			54	59			53				55
	1996				47			39	55			48				45
	1997				50			46	54			52				49
	1998	0	100		48	20		54	50		33	47				50
	1999				51	0		49	51		50	55	100			51
	2000		100		50	33		47	59			51				50
	2001		50		53	100		46	56		0	37	100			49
	2002		100		55	27		49	65		100	49		0		54
	2003		55		55	0		56	54			58				55
	2004		100		54	0		52	57		100	36				54
	2005		62		56	27		55	57			46	100			55
	2006		50		57	67		51	59			51				55
	2007		75		55			52	56			42				53
	2008		0		49	100		48	57			38				50
Mean		0	61	50	52	35		49	56		55	49	100	0		52

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Table 68.–Page 11 of 16.

Location	Year	Percent Composition by Age Class (%)														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	
Crescent River	1990			50	29	0		39	30		50	30		100		35
	1991			50	32			42	30		0	39	0	0		38
	1992				60			43	58			52	0		100	51
	1993		0		32	0		53	41			52		100		50
	1994		0		25	50		54	19		50	49		100		46
	1995		0		32	0		60	22		67	54			0	50
	1996				32			50	31			52		100		44
	1997				26	0		54	29			51		0		48
	1998				32			56	53		0	58				54
	1999				30	0		54	32		0	48		0	0	45
	2000				22			62	25			75				63
	2001				32	0		62	33		80	59		0	0	49
	2002				27	0		59	43		100	59		0		51
	2003		100	100	42	67		57	44			56		100		53
	2004				30			53	40		0	55		100	100	48
	2005		50		36			62	43			58			100	56
	2006				49			59	38			54				54
	2007				21			60	25			55				53
	2008		0		21	11		56	31		0	58				46
Mean			25	67	32	13		54	35		35	53	0	55	50	49

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Table 68.–Page 12 of 16.

Location	Year	Percent Composition by Age Class (%)														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	
Packers Creek	1987				83			63	59	34		55	40	40	50	51
	1988				42	4		66	59			68	65		100	57
	1989		0		49	2		100	64	0		57	74	0	75	47
	1990		0		41	50		52	53			47		0	0	50
	1991				31			49	43		100	53				44
	1992				20			65	38		0	72				55
	1993				11	100		62	23			55				47
	1994				28	25		76	46	0		63		0	0	47
	1995				13	40		13	47			66		100		53
	1996		100			80		79	50			78			100	59
	1997				55			67	55			81	62	100	100	74
	1998				100	0		73	70			72		0	38	70
	1999				47	42		100	38			58	100			42
	2000				45	15		73	45	100		77	60			53
	2007		0		59	9		53	55			60	0			55
	2008		0		37	0		80	46			57				49
Mean			20		44	31		67	49	34	50	64	57	34	58	53

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Table 68.–Page 13 of 16.

Location	Year	Percent Composition by Age Class (%)														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	
NORTHERN DISTRICT																
Yentna River	1990	15	0	47	46	100		57	52		40	58	78	100		53
	1991	12	0	63	34	0	100	54	47		100	53		0		48
	1992	12	30	76	23	0		56	20		0	49	34	100		37
	1993	14	0	47	37	60		54	43			63		100		48
	1994	25	50	44	28		50	52	52		0	50				45
	1995	9	0	54	42	0		52	47		0	58	100			49
	1996	27	0	60	34	50		48	52			52				45
	1997	0	100	48	55	0		53	57		100	37			100	52
	1998	27	20	55	56			52	40		75	48				52
	1999	12		53	46			42	58		25	56				44
	2000			50	26			46	44	100	0	50		0		45
	2001		0	44	48	0		51	53			60			0	51
	2002	38	67	33	42			52	36			55			0	48
	2003	0	0	60	41	25		48	53		67	40				46
	2004	33	0	40	32			60	37		0	59				52
	2005	0	14	52	33	0		50	43		0	61			0	46
	2006	8	33	58	50			58	43			63				53
	2007	43		77	38			51	65			56				50
	2008	0	17	50	11	0	100	54	34		100	51	100			46
Mean		16	21	53	38	21	83	52	46	100	39	54	78	60	25	48

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Table 68.–Page 14 of 16.

Location	Year	Percent Composition by Age Class (%)														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	
Fish Creek	1990		0		59	0		69	69	0		80				65
	1991		4		63			70	78			71				61
	1992				53	100		24	53			67	100			52
	1993		33		67	0		67	51			75				65
	1994		17		47	60		57	55			80				51
	1995		44		67	50		59	72			71	100		0	65
	1996		0		47			49	63		100	44	100			50
	1997		0		58			60	60		100	75				60
	1998		0	66	85	0		74	68		100	63	100		100	73
	1999		3		63	0		56	81			50				59
	2000	100	0		46	0		46	56			40				45
	2001		0	34	62	0		77	61	0		66	100			65
	2002		0		52	8		32	56	0		67				49
	2003		0		49	33		56	52		50	71				54
	2004	100	0		56	0		49	54		100	57				52
	2005		3	40	58	0		51	64			83				49
	2006				48			44	61			80				45
	2007				59			53	44			71				54
	2008		1		47	0		43	39	0		33				33
Mean		100	7	47	57	18		55	60	0	90	65	100		50	55

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Table 68.–Page 15 of 16.

Location	Year	Percent Composition by Age Class (%) 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	Total
ESCAPEMENT	1990		0	62	44	27		49	54	0	27	43	69	10	0	47
TOTAL	1991	0	3	60	48	34	78	52	50		26	50	0	0		50
	1992	8	30	76	50	84		64	55		68	60	27	100	100	61
	1993	11	61	52	53	58		58	54	0	58	58	0	100		57
	1994	0	23	51	44	39	50	55	64	100	30	56	50	75	0	55
	1995	9	39	58	52	56		56	54	0	83	52	100		0	53
	1996	27	17	56	41	27		50	54	100	53	55	100	52	100	50
	1997	0	15	57	53	47		49	54		30	59	81	92	100	51
	1998	0	86	55	49	45		51	55	100	24	52	100	0	22	51
	1999	12	3	52	43	51		50	59	0	53	50	87	94	0	50
	2000	100	21	46	47	51		50	44	100	32	51	50	62		49
	2001		45	43	50	32		52	59	0	41	53	100	0	0	52
	2002	0	23	47	48	34		53	57	0	47	52	50	25		51
	2003	0	48	52	51	35		56	57	100	11	55		12		55
	2004	54	37	22	52	30		55	60		17	50	0	54	69	54
	2005	0	33	54	53	26		56	59		38	50	88	0	83	55
	2006	7	27	52	50	74		53	60		51	57	100	20	100	54
	2007	40	37	51	52	43		49	59		9	51	84	59	100	50
	2008	0	4	35	46	49	100	52	58	0	28	43	100	0		49
Mean		16	29	52	49	44	76	53	56	42	38	52	66	42	52	52

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Table 68.–Page 16 of 16.

Location	Year	Percent Composition by Age Class (%)														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																
	1990	23	20	64	37	23	0	55	46		39	53	62	56	52	51
	1991	14	3	52	41	30	62	54	41		26	50	19	0	62	48
	1992	6	19	61	40	60		56	43		28	56	27	71	52	54
	1993	15	62	57	48	57		56	49	0	56	55	28	59	58	54
	1994	25	23	56	41	40	74	56	55	65	43	54	60	51	94	54
	1995	13	39	55	46	53		56	49	0	54	53	50	37	55	52
	1996	24	15	53	41	39		53	49	100	41	53	67	32	100	51
	1997	9	14	52	45	49		54	45		29	56	75	45	76	53
	1998	38	82	52	45	45	0	54	51	100	36	53	74	41	30	51
	1999	10	3	66	41	52		52	53	0	48	50	84	68	51	50
	2000	13	23	56	41	51		52	42	100	39	52	58	48	12	49
	2001	4	44	62	44	34		53	55	0	41	50	99	31	27	51
	2002	25	29	58	49	35	100	54	54	0	43	55	74	40	2	53
	2003	55	49	58	47	39	0	58	52	100	36	57	100	18	100	55
	2004	45	35	61	49	29		55	55	84	26	52	18	57	65	54
	2005	35	34	50	44	35		58	50		53	55	88	16	59	56
	2006	10	38	53	49	73		52	52		49	55	60	25	88	52
	2007	43	45	51	48	42		52	53		27	54	79	50	76	51
	2008	8	4	47	43	47	100	52	51	38	31	46	53	6	36	49
Mean		22	31	56	44	44	39	54	50	50	39	53	62	40	58	52

	Percent Composition by Age Class (%)														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	
MEAN PERCENT FEMALE COMPOSITION - ALL YEARS															
Escapement	16	29	52	49	44	76	53	56	42	38	52	66	42	52	52
Commercial	16	38	58	41	46	43	55	46	46	42	53	56	42	64	52
UCI Total	22	31	56	44	44	39	54	50	50	39	53	62	40	58	52

[a] No samples taken.

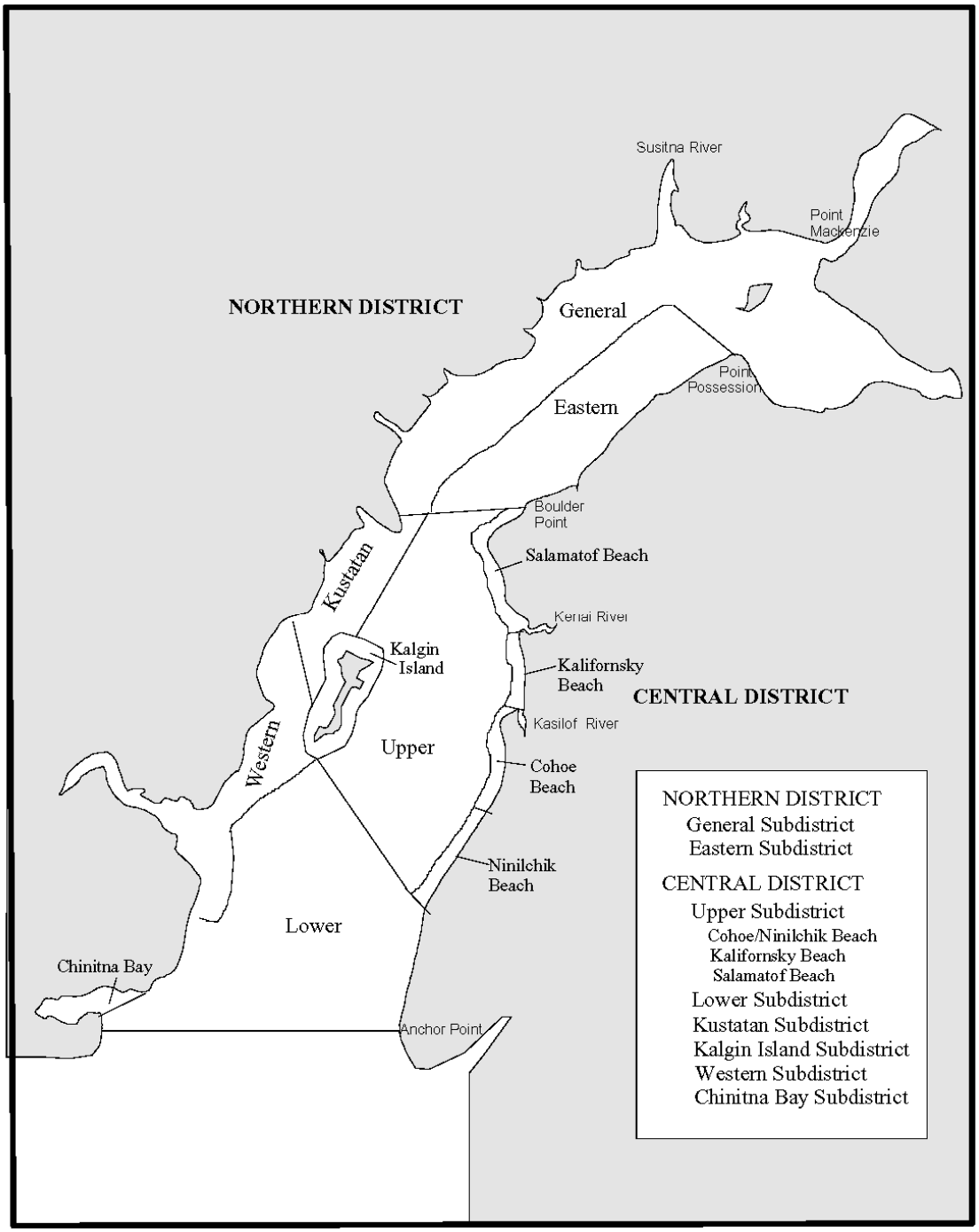


Figure 1.–Map of Upper Cook Inlet showing the commercial fishing districts, subdistricts and Upper Subdistrict beach fisheries.

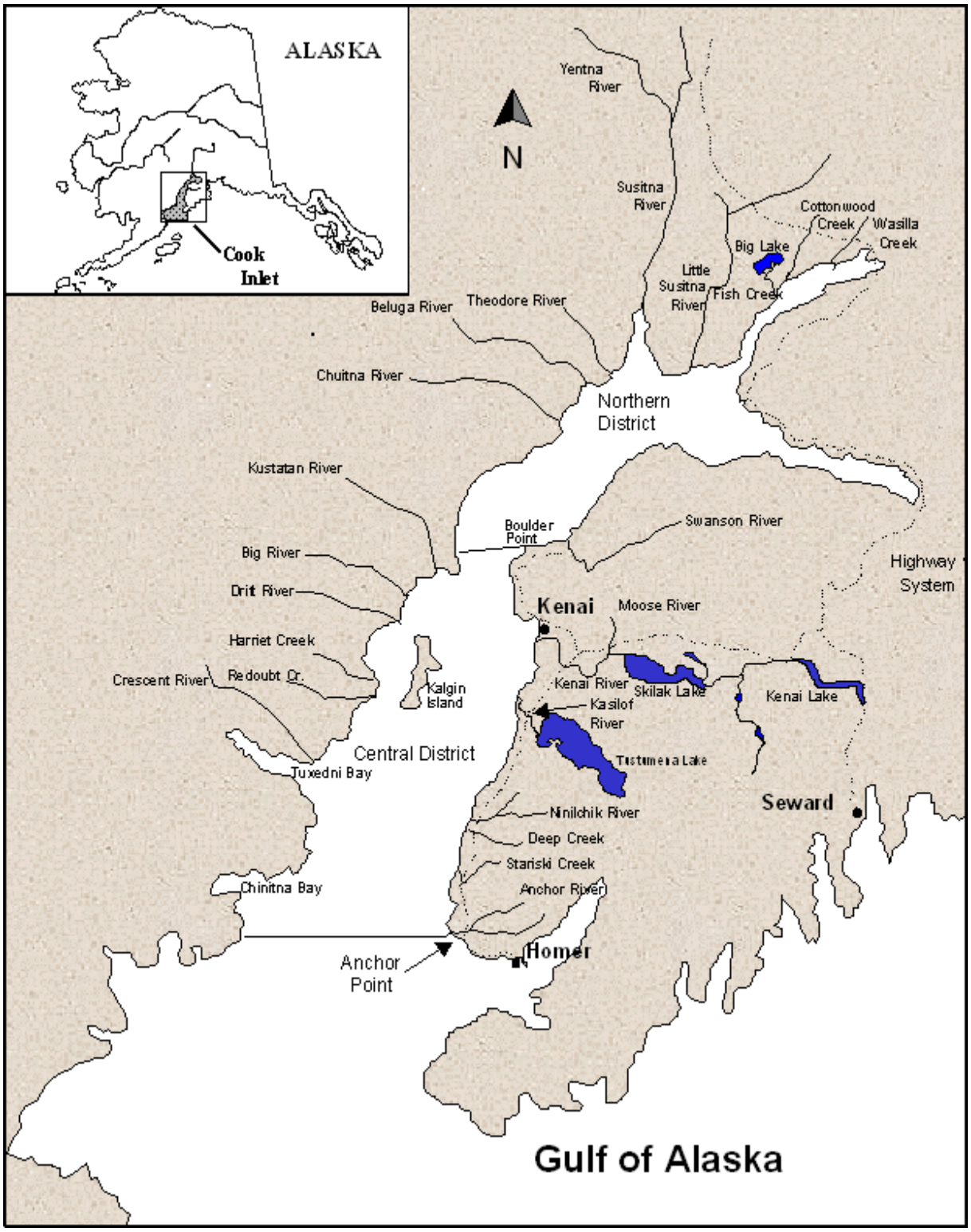


Figure 2.–Map of Upper Cook Inlet showing locations of the Northern and Central Districts and the primary salmon spawning drainages.

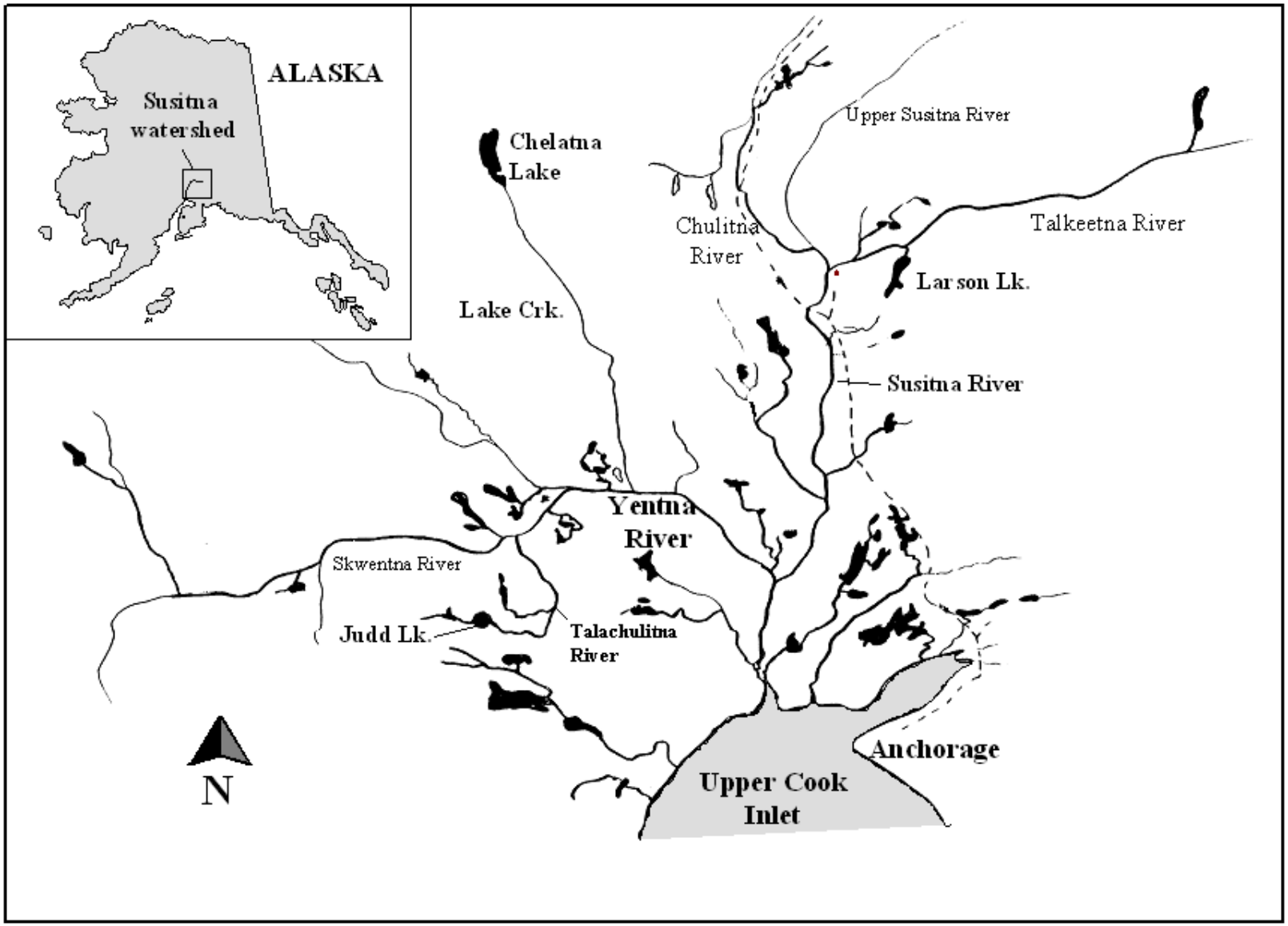


Figure 3.–Map of the Susitna River drainage indicating the Yentna River, and Chelatna, Judd, and Larson Lakes.

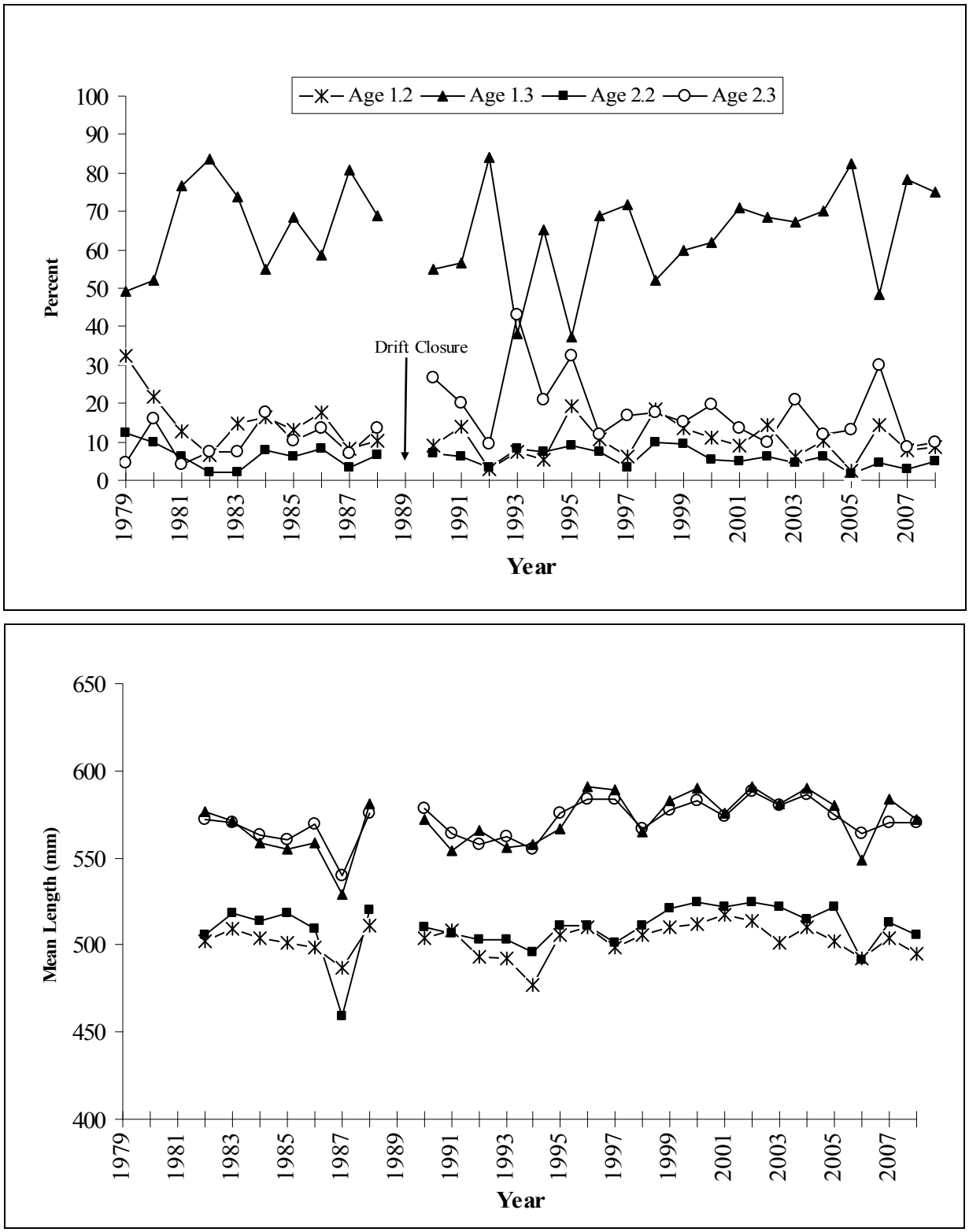


Figure 4.–Age and length composition of sockeye salmon harvested in the commercial drift gillnet fishery, Upper Cook Inlet, Alaska, 1979 to present.

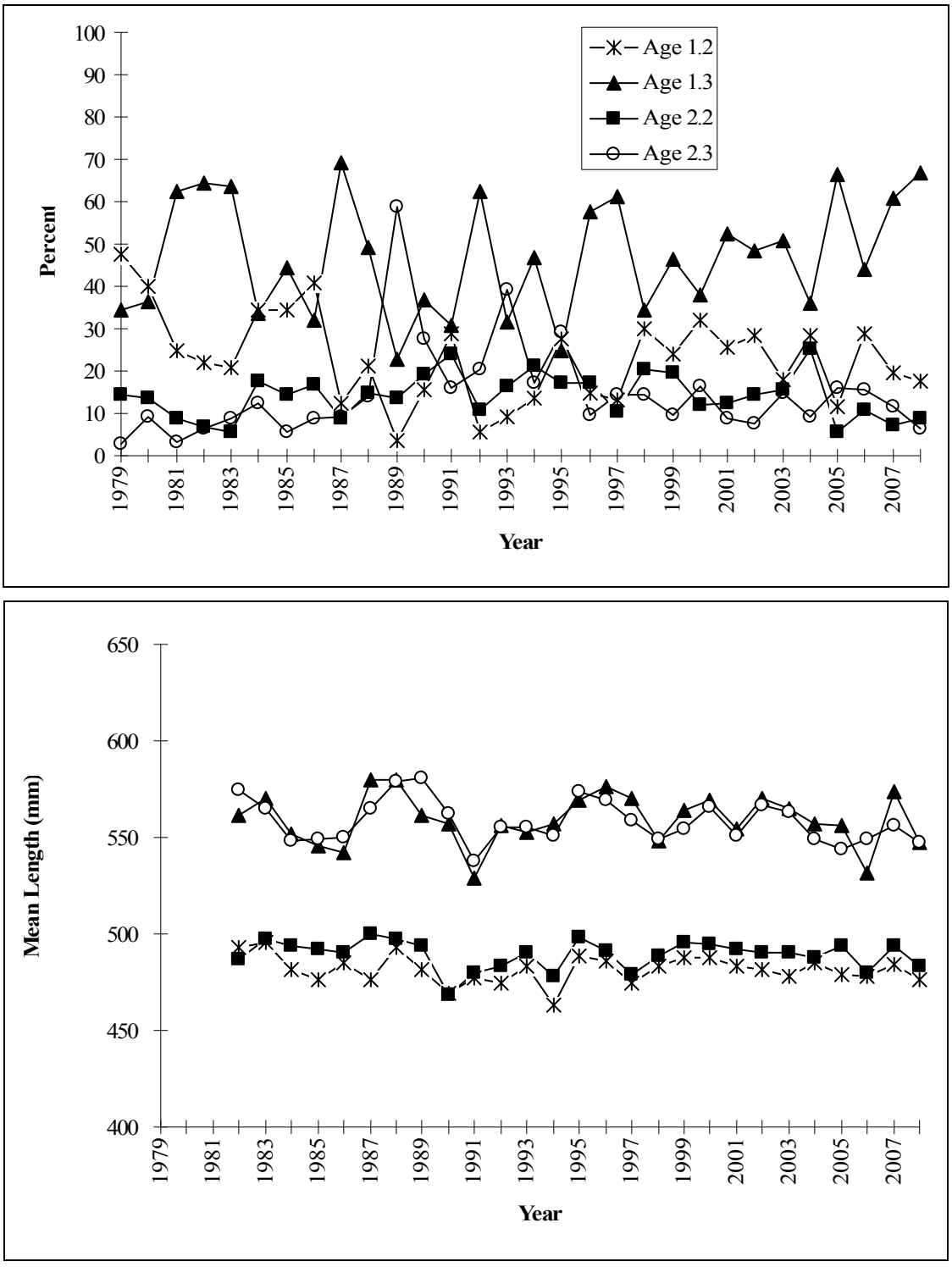


Figure 5.–Age and length composition of sockeye salmon harvested in the Cohoe/Ninilchik Beach commercial set gillnet fishery, Upper Cook Inlet, Alaska, 1979 to present.

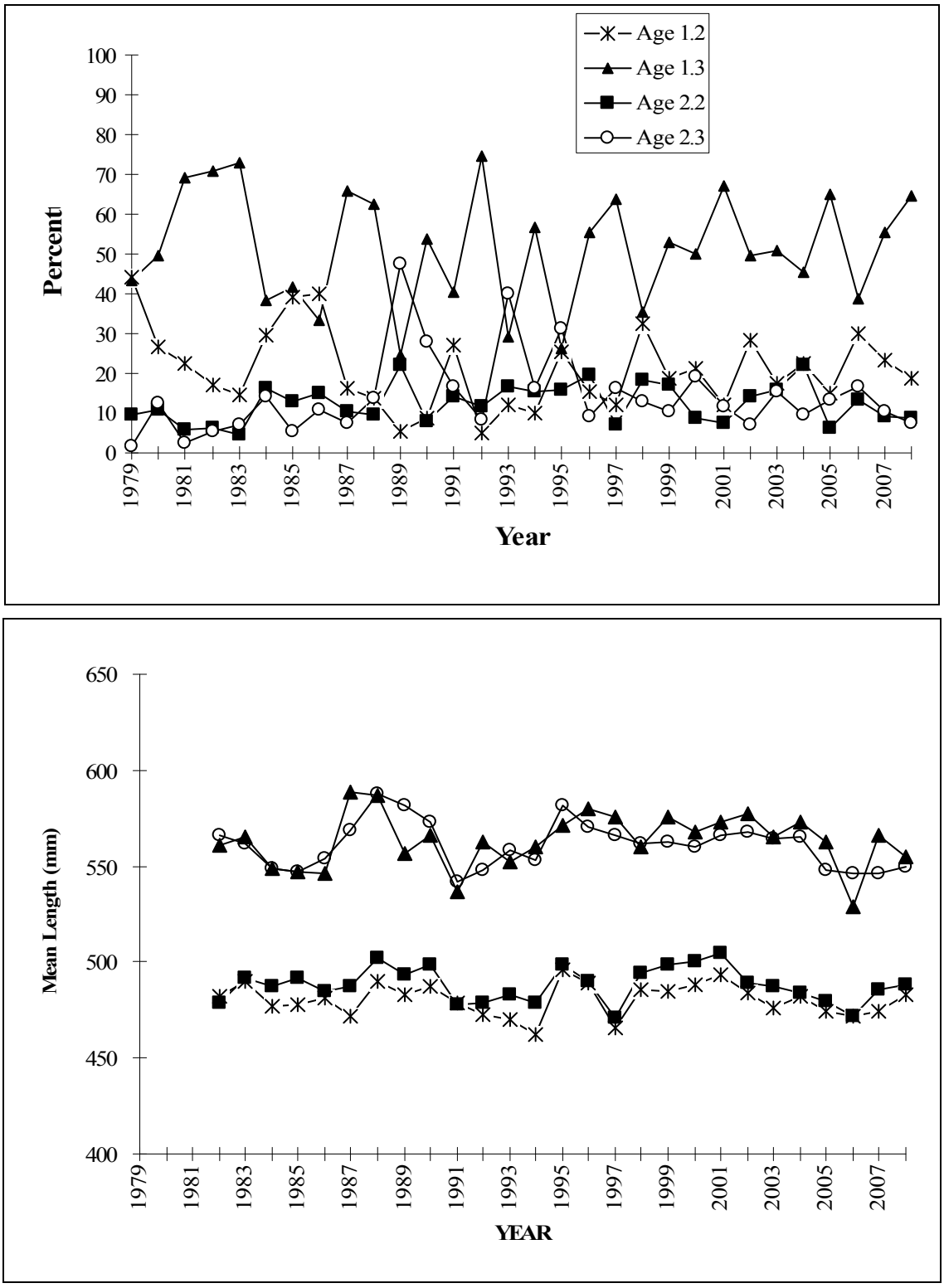


Figure 6.–Age and length composition of sockeye salmon harvested in the Kalifornsky Beach commercial set gillnet fishery, Upper Cook Inlet, Alaska, 1979 to present.

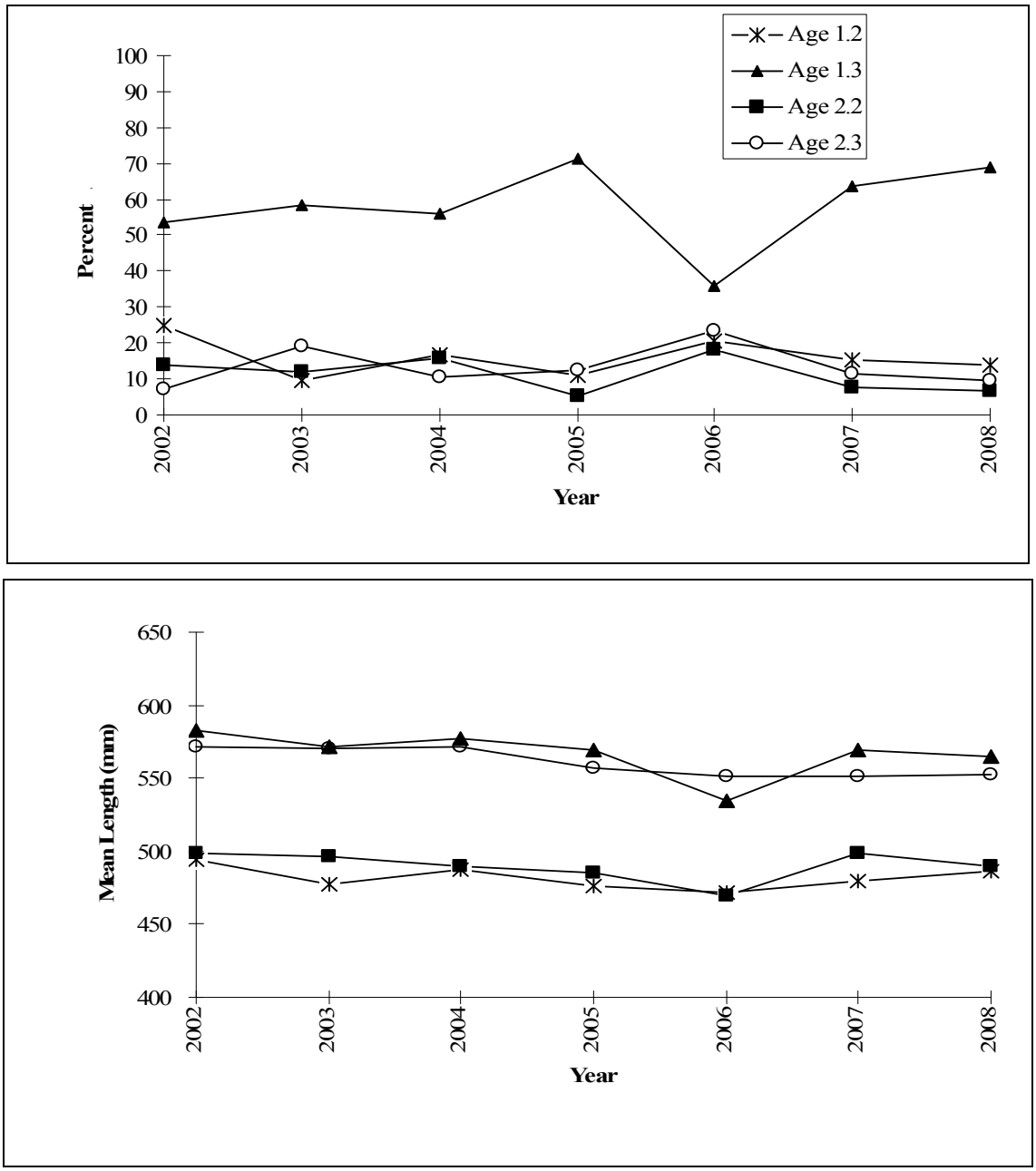


Figure 7.–Age and length composition of sockeye salmon harvested in the North Kalifornsky Beach commercial set gillnet fishery, Upper Cook Inlet, Alaska, 2002 to 2008.

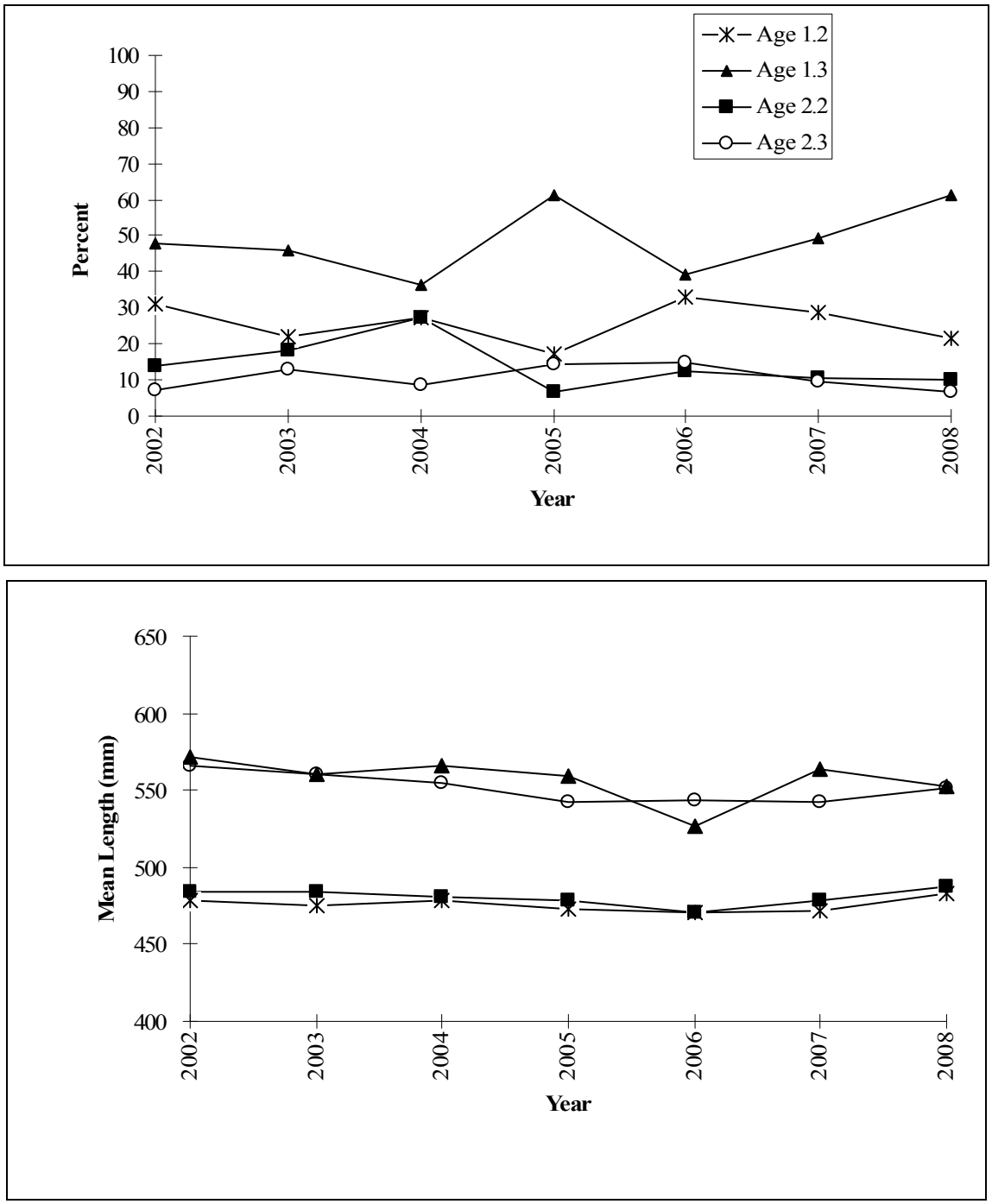


Figure 8.–Age and length composition of sockeye salmon harvested in the South Kalifornsky Beach set gillnet fishery, Upper Cook Inlet, Alaska, 2002 to 2008.

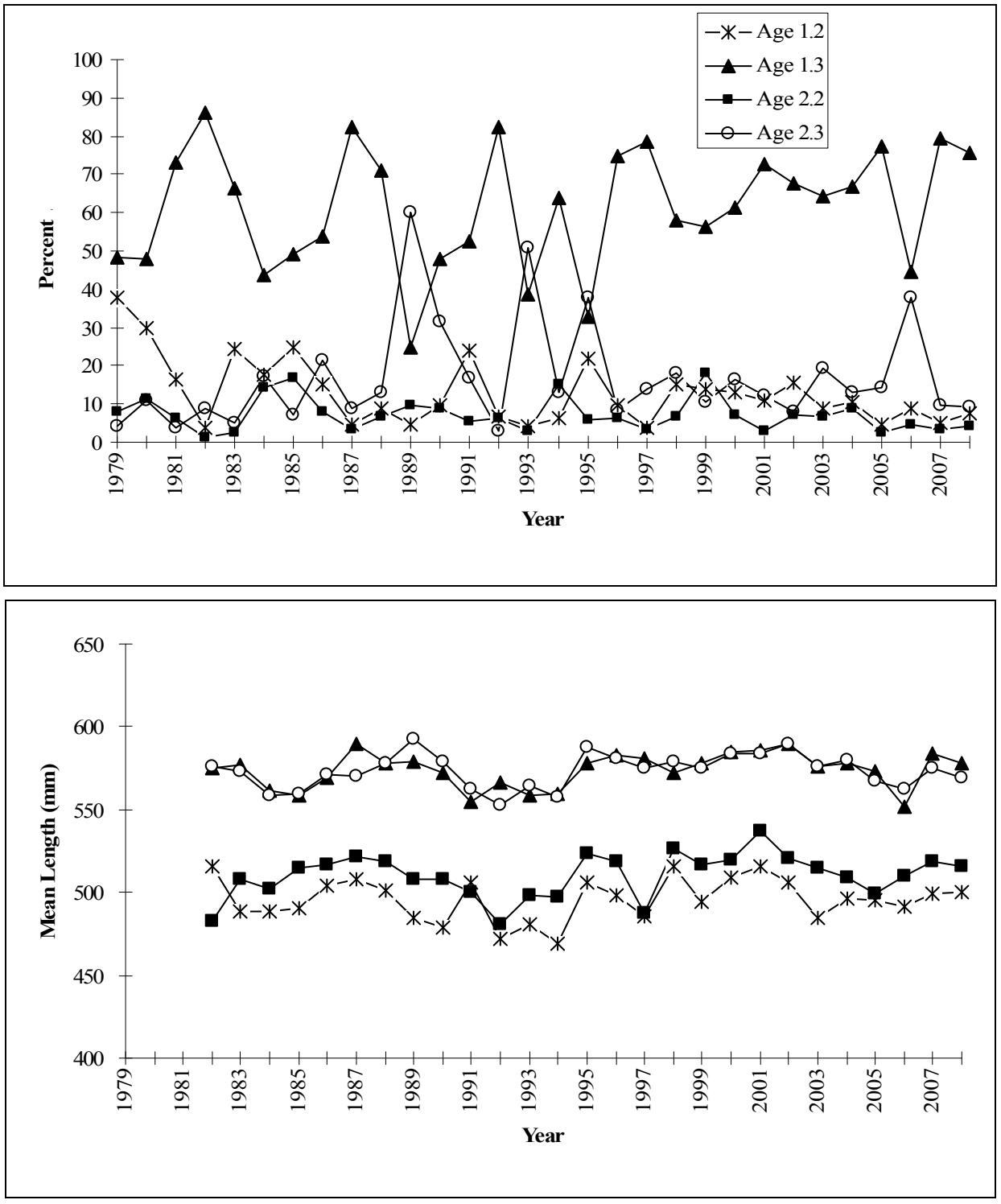


Figure 9.–Age and length composition of sockeye salmon harvested in the Salamatof Beach commercial set gillnet fishery, Upper Cook Inlet, Alaska, 1979 to present.

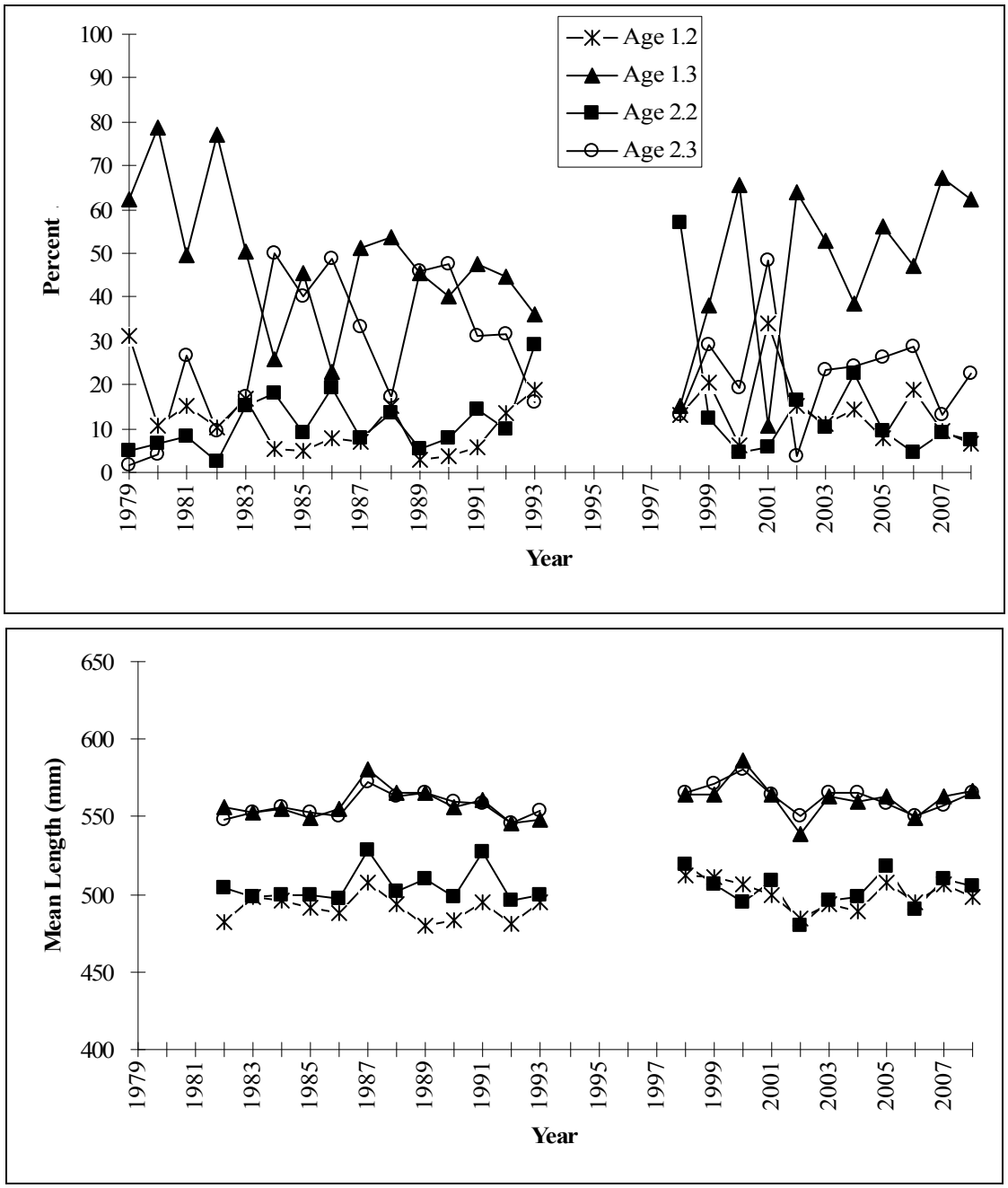


Figure 10.–Age and length composition of sockeye salmon harvested in the Central District, Western Subdistrict commercial set gillnet fishery, Upper Cook Inlet, Alaska, 1979 to present.

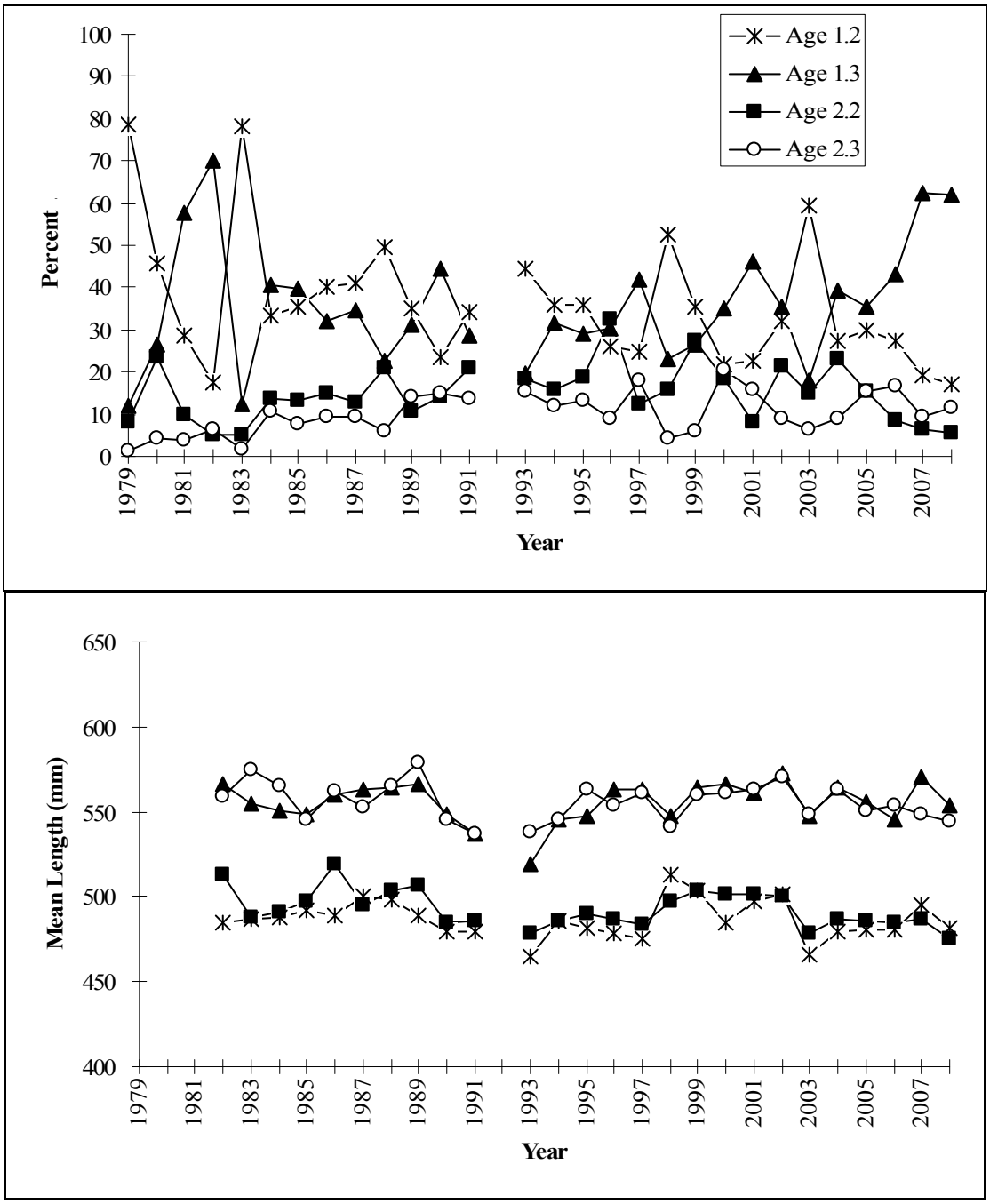


Figure 11.–Age and length composition of sockeye salmon harvested in the Northern District, Eastern Subdistrict commercial set gillnet fishery, Upper Cook Inlet, Alaska, 1979 to present.

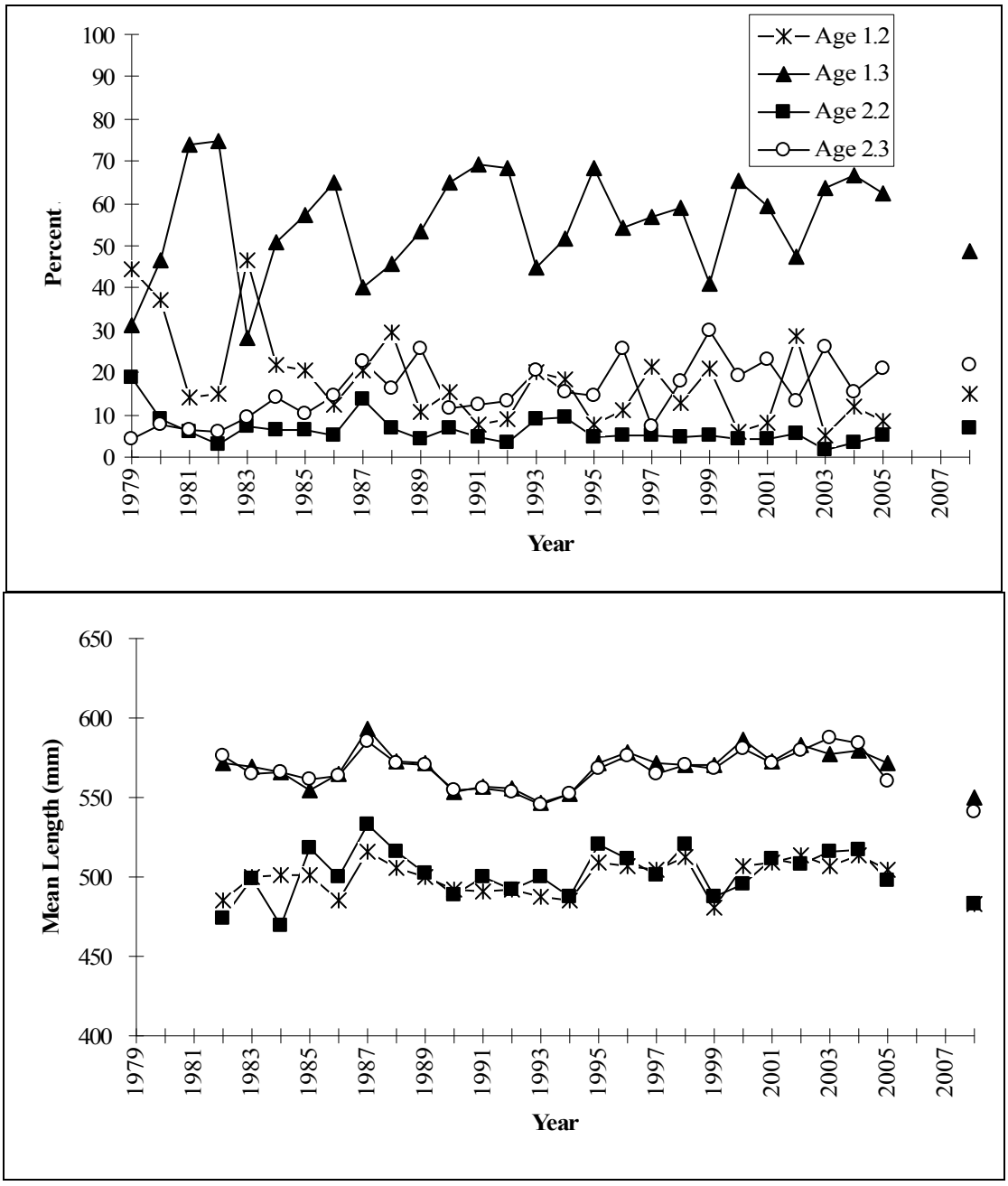


Figure 12.–Age and length composition of sockeye salmon harvested in the Northern District, General Subdistrict commercial set gillnet fishery, Upper Cook Inlet, Alaska, 1979 to present.

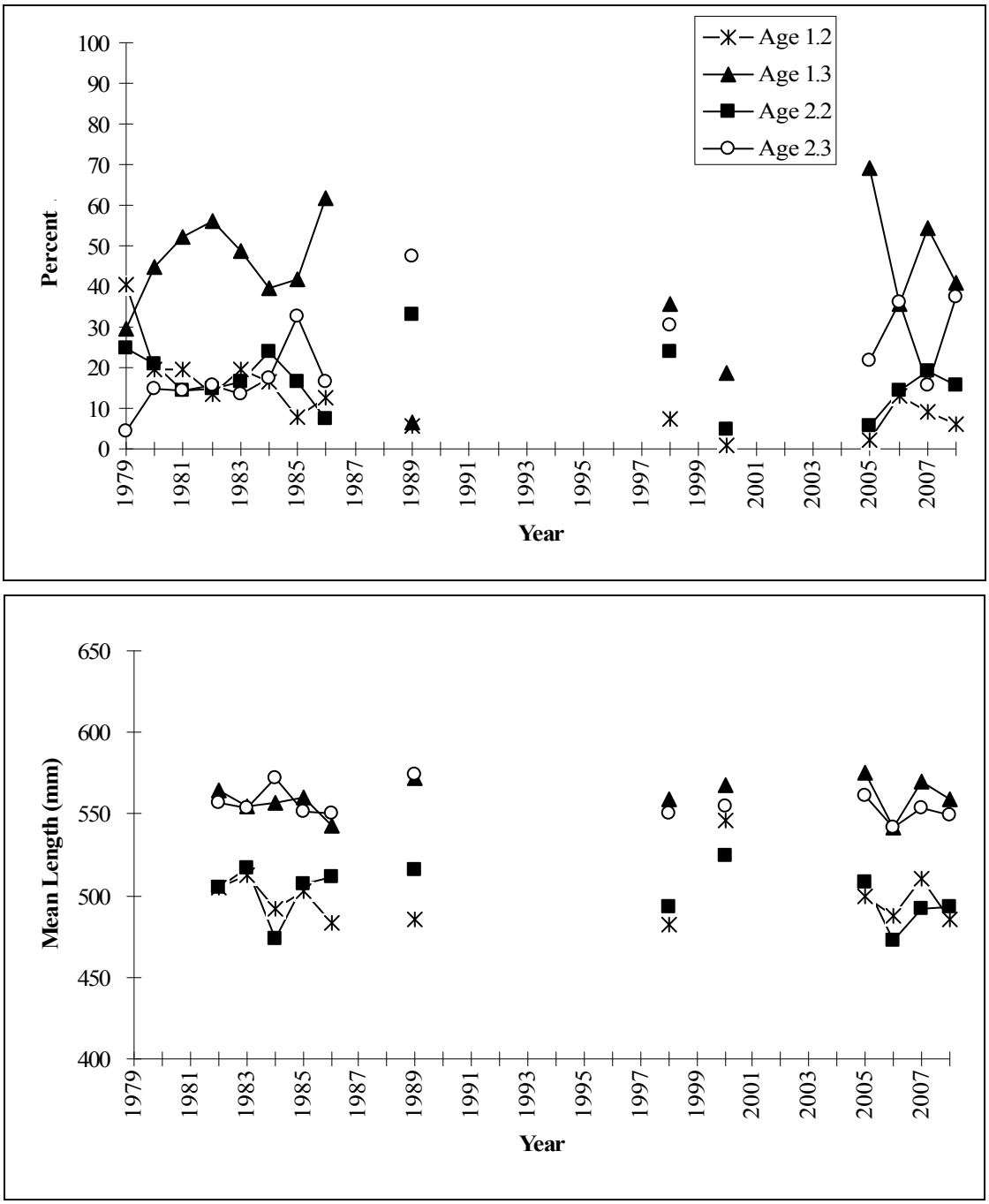


Figure 13.–Age and length composition of sockeye salmon harvested in the Kalgin Island Subdistrict commercial set gillnet fishery, Upper Cook Inlet, Alaska, 1979 to present.

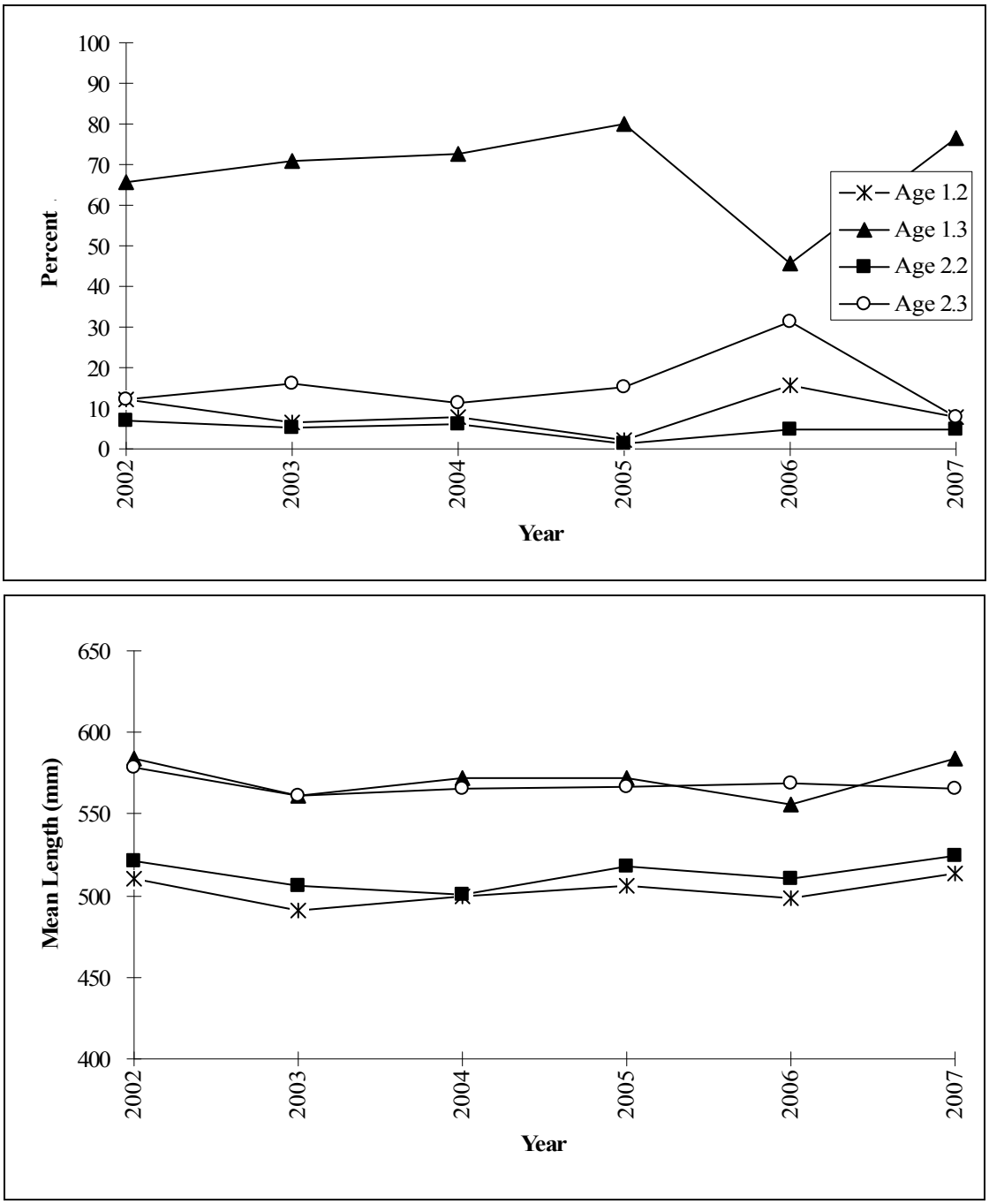


Figure 14.–Age and length composition of sockeye salmon harvested in the Offshore Test fishery Upper Cook Inlet, Alaska, 2002 to present.

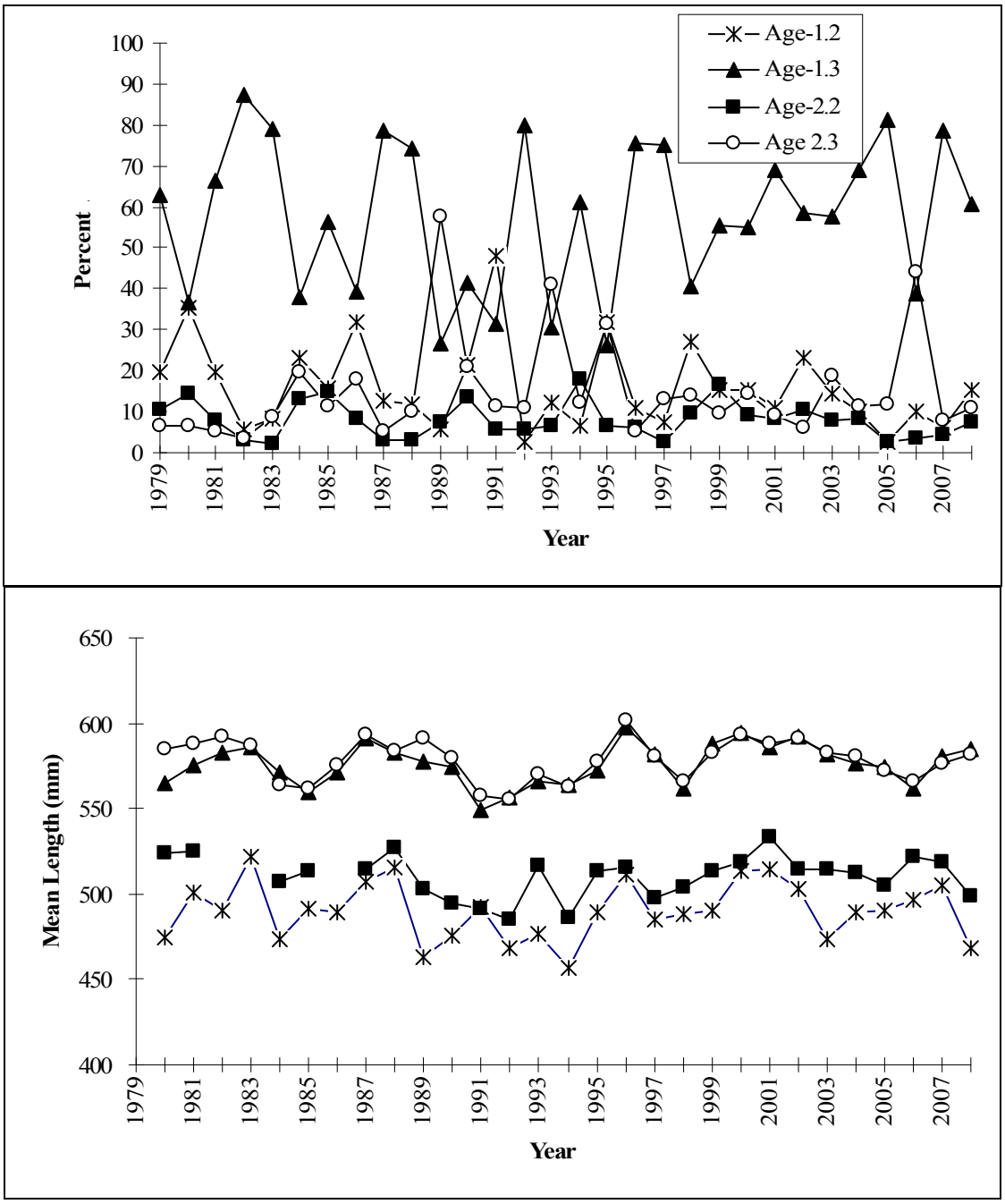


Figure 15.–Age and length composition of sockeye salmon escapement in the Kenai River, Upper Cook Inlet, Alaska, 1979 to present.

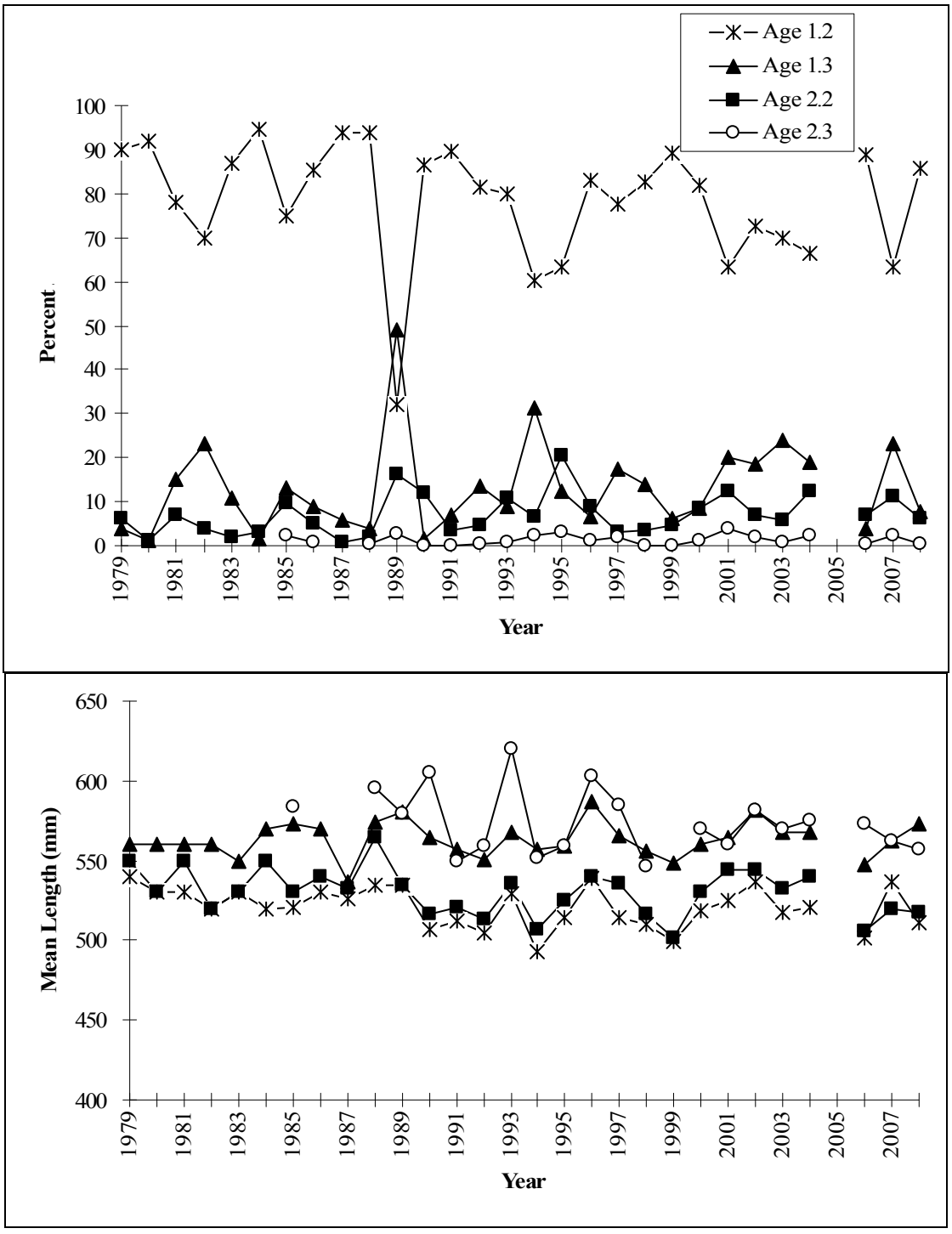


Figure 16.–Age and length composition of sockeye salmon escapement in Hidden Creek, Kenai River drainage, Upper Cook Inlet, Alaska, 1979 to present.

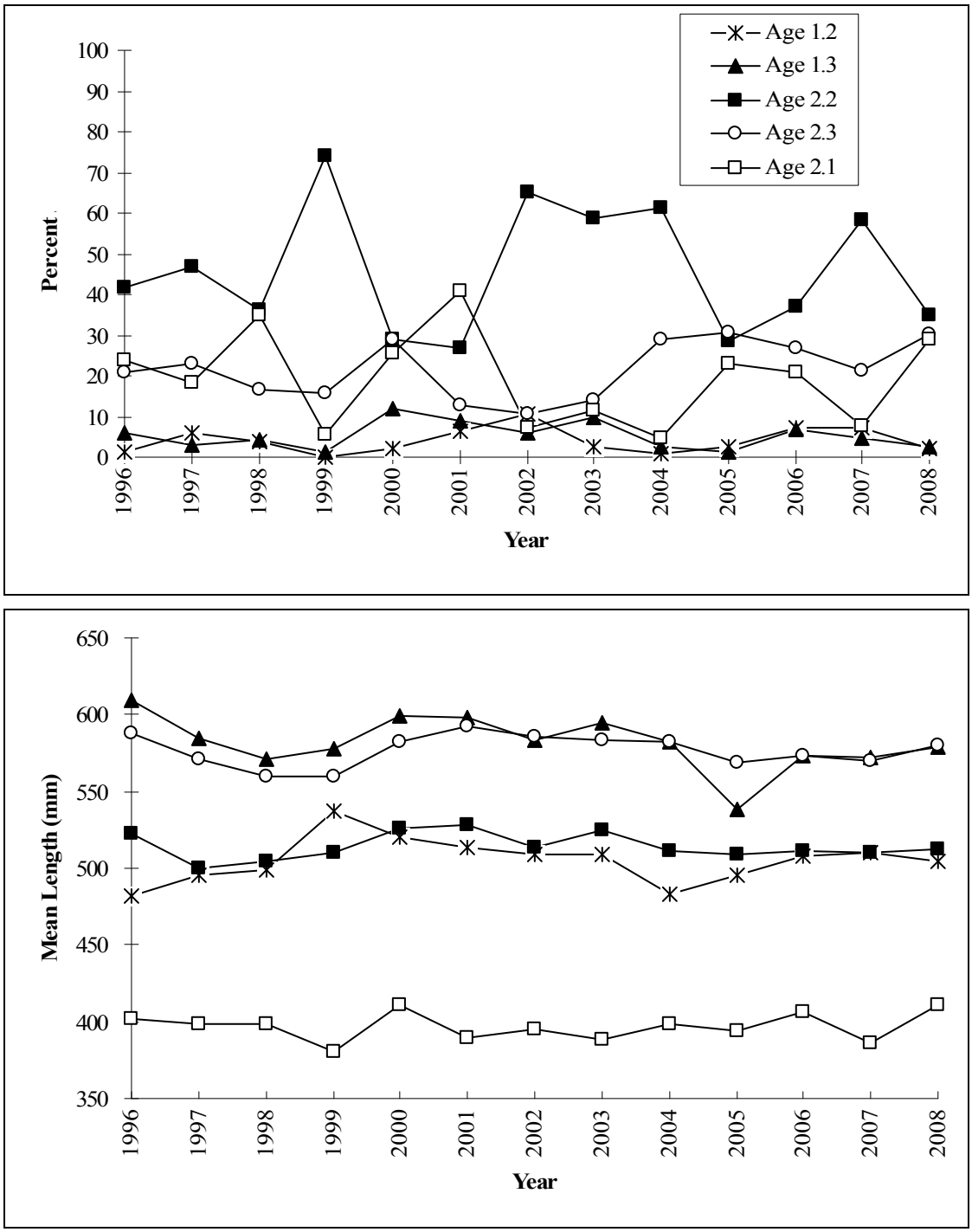


Figure 17.–Age and length composition of late run sockeye salmon escapement in the Russian River, Kenai River drainage, Upper Cook Inlet, Alaska, 1996 to present.

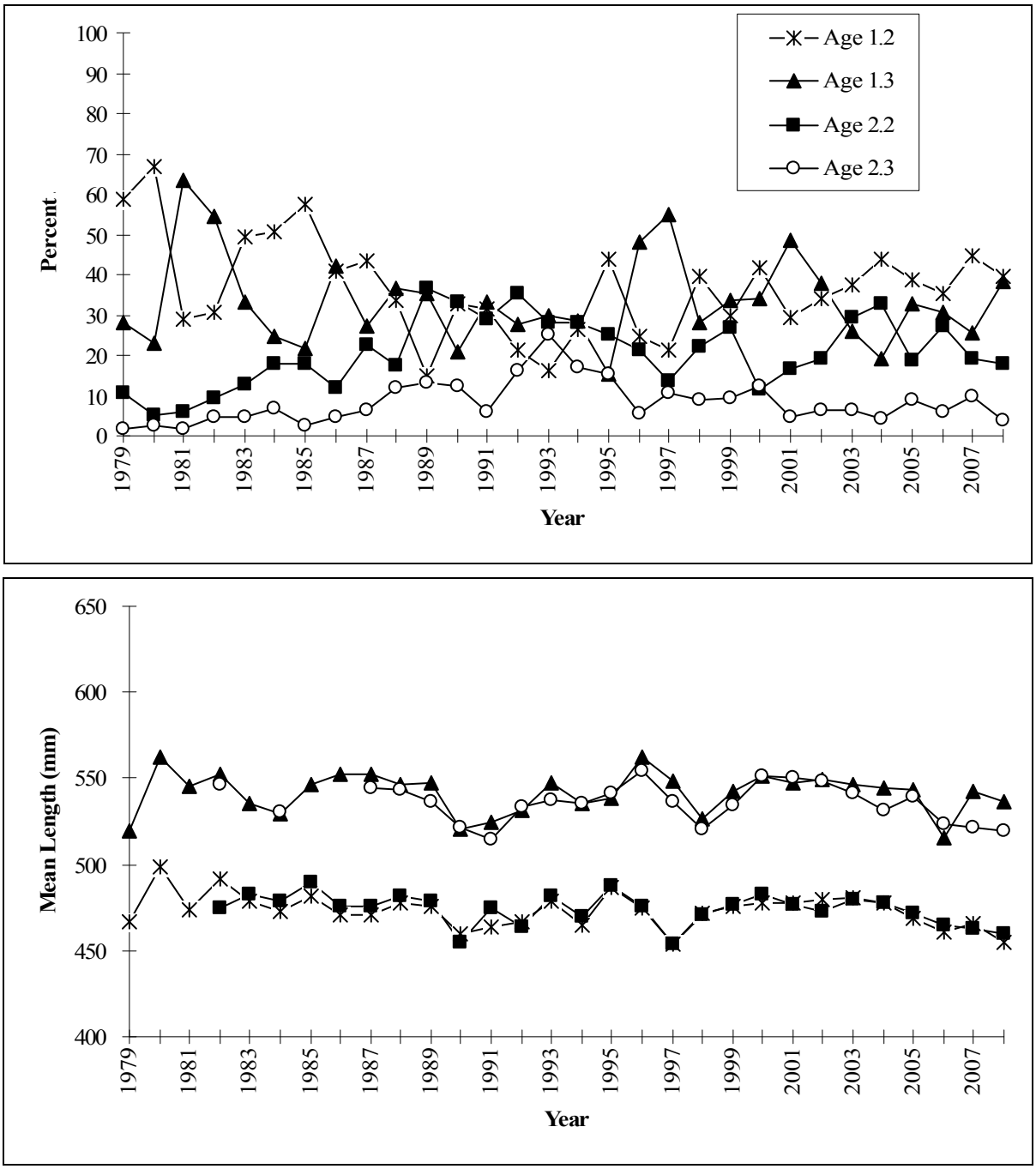


Figure 18.–Age and length composition of sockeye salmon escapement in the Kasilof River, Upper Cook Inlet, Alaska, 1979 to present.

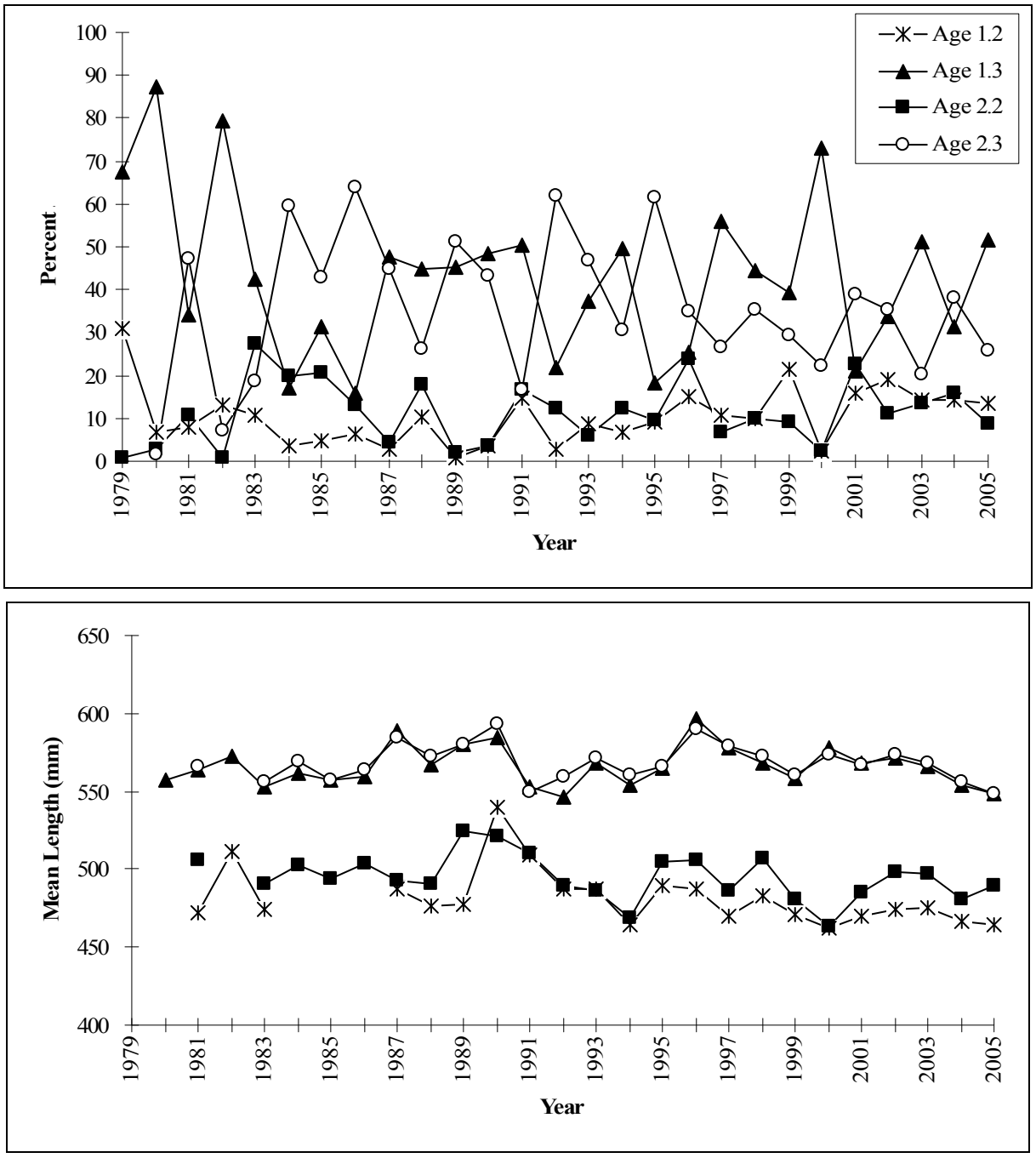


Figure 19.–Age and length composition of sockeye salmon escapement in Crescent River, Upper Cook Inlet, Alaska, 1979 to present.

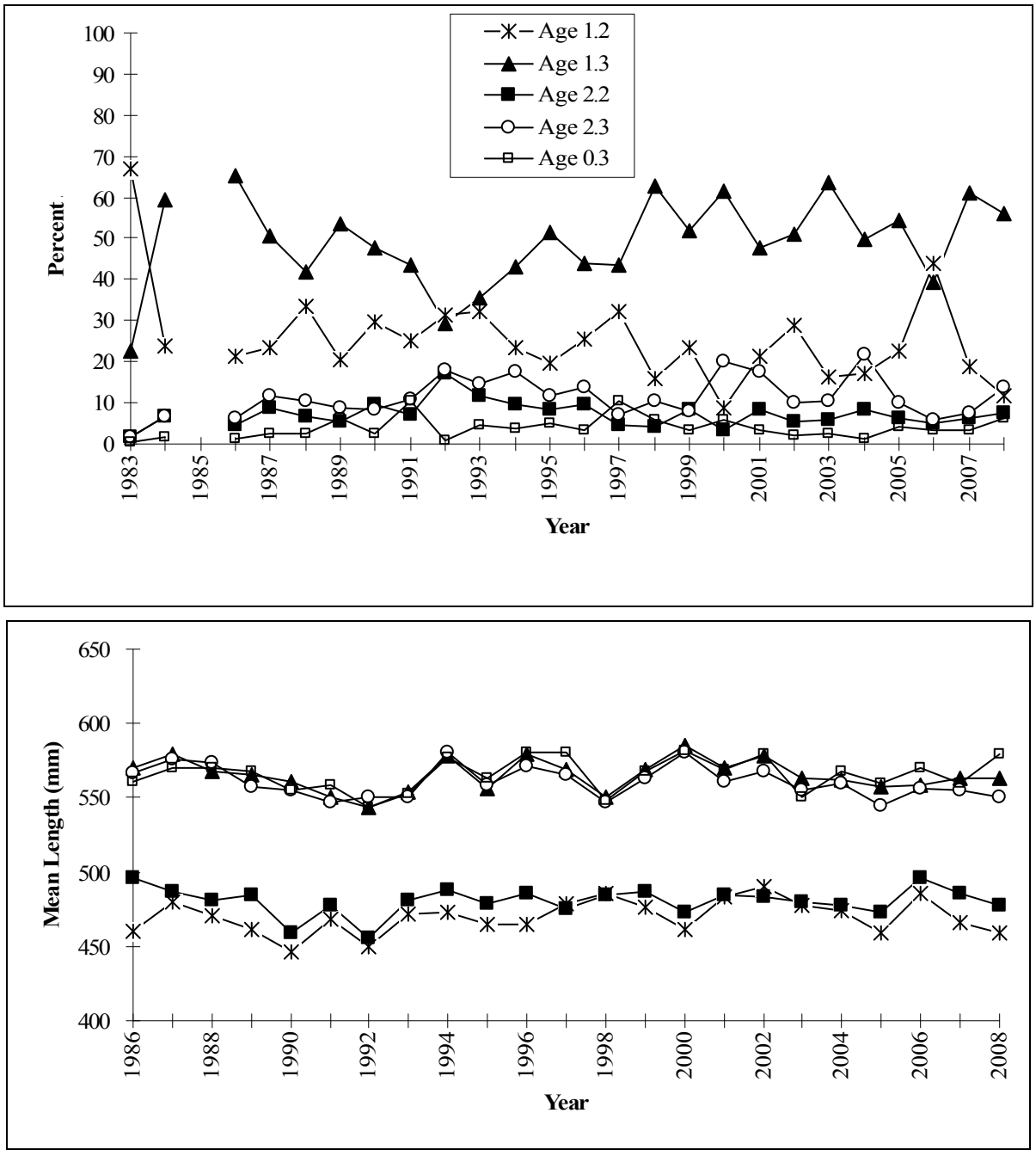


Figure 20.–Age and length composition of sockeye salmon escapement in Yentna River, Susitna River drainage, Upper Cook Inlet, Alaska, 1983 to present.

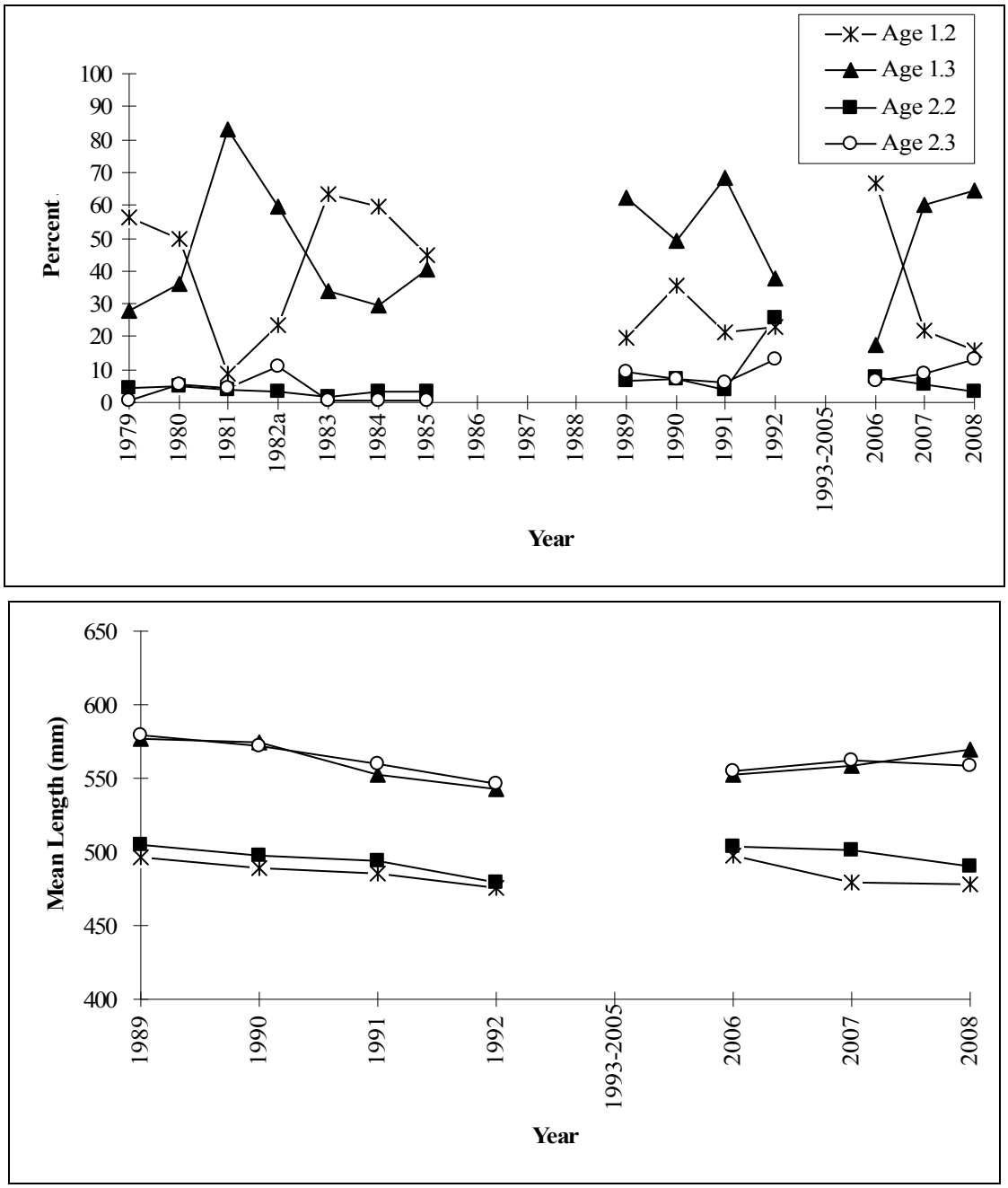


Figure 21.–Age composition of sockeye salmon escapement at Sunshine Station (RM 80.0) in the mainstem Susitna River, Upper Cook Inlet, Alaska, 1979–1985, age and length information from 1989–1992 and 2006 to 2008.

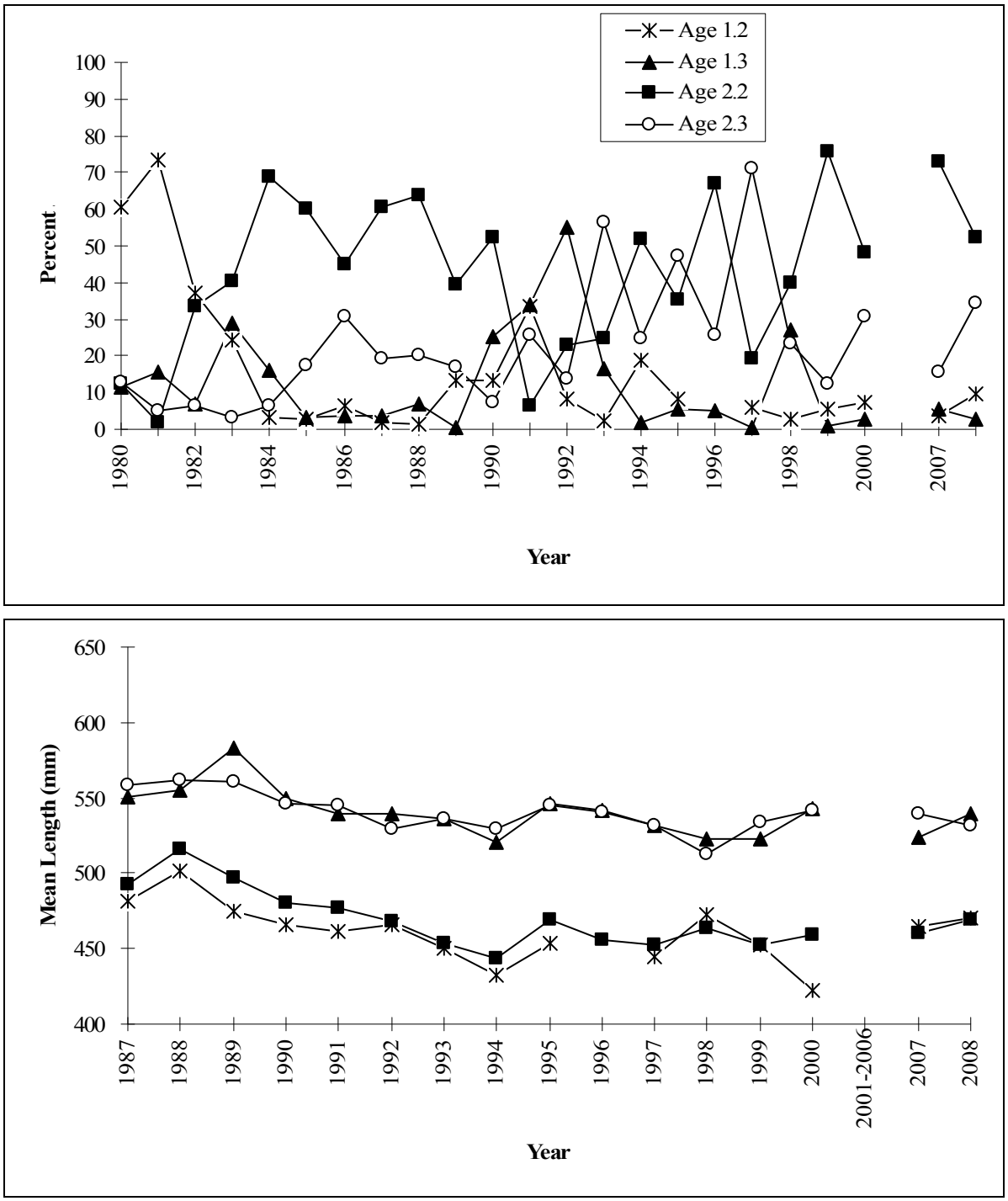


Figure 22.–Age composition of sockeye salmon escapement from 1980 to 2008 and length composition 1987-2000 and 2007-2008 in Packers Creek, Kalgin Island, Upper Cook Inlet, Alaska.

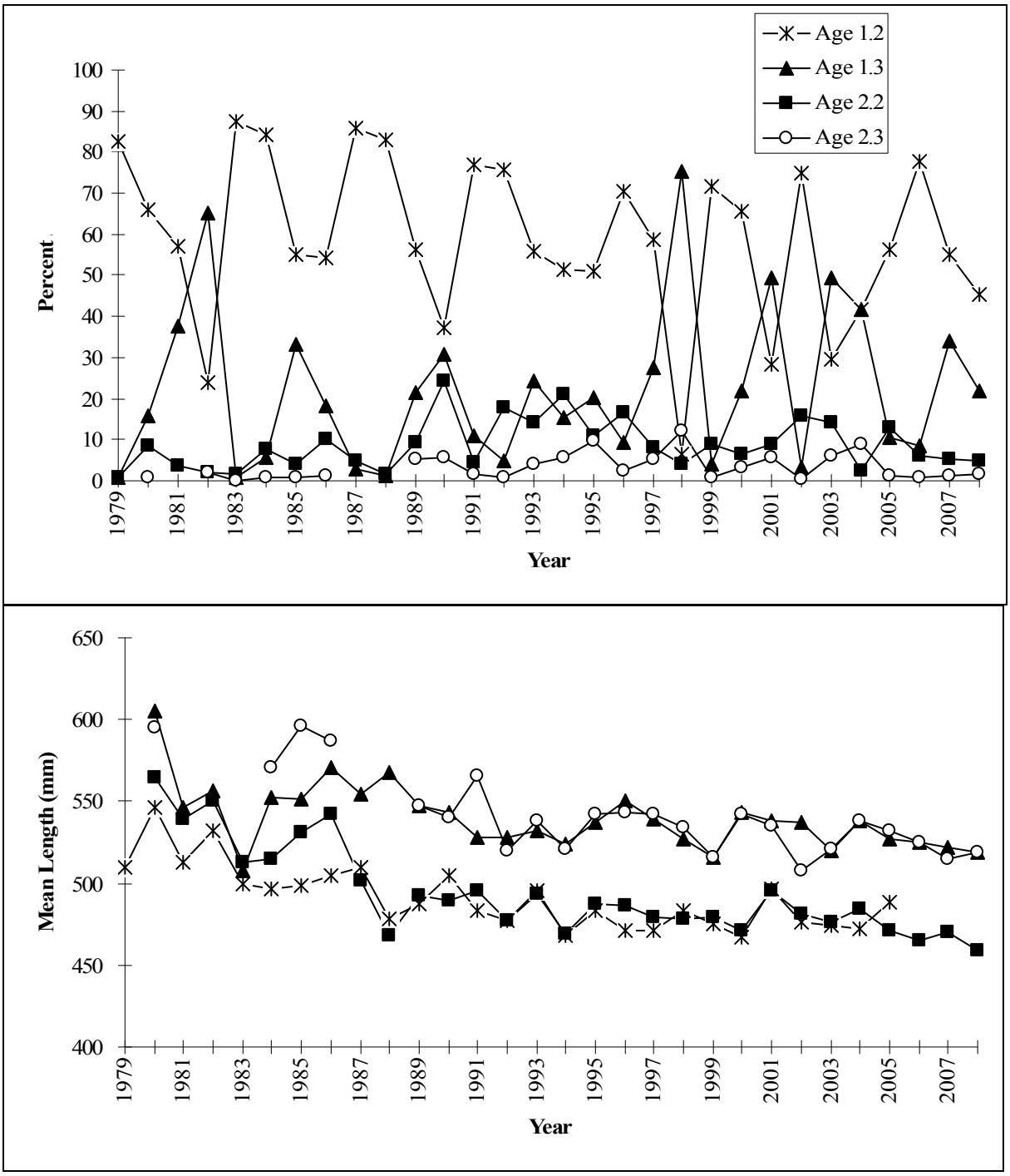


Figure 23.–Age and length composition of sockeye salmon escapement in Fish Creek, Upper Cook Inlet, Alaska, 1979 to present.

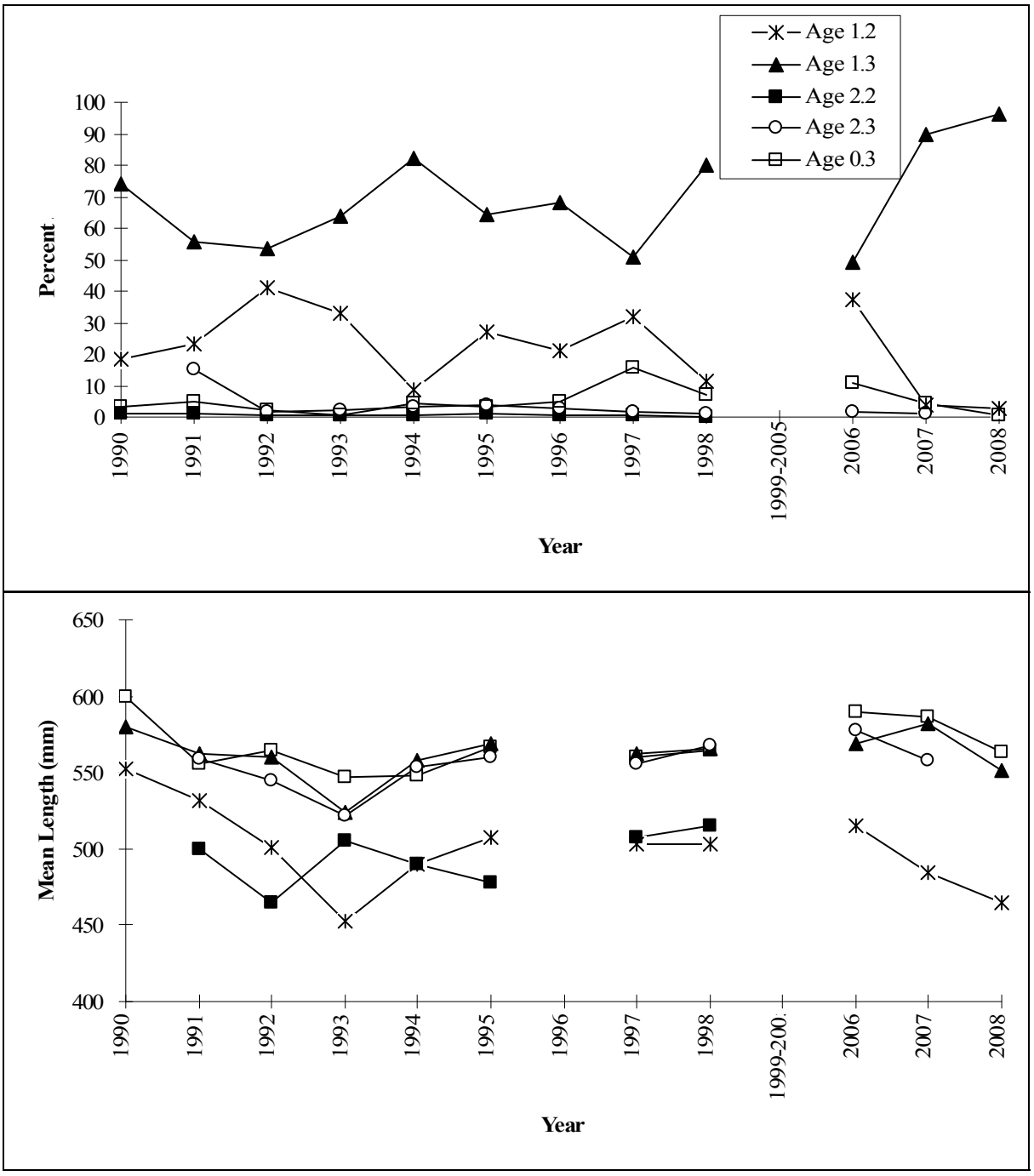


Figure 24.–Age and length composition of sockeye salmon escapement in Chelatna Lake (Lake Creek), Yentna River drainage, Upper Cook Inlet, Alaska, 1990 to 1998 and 2006–2008.

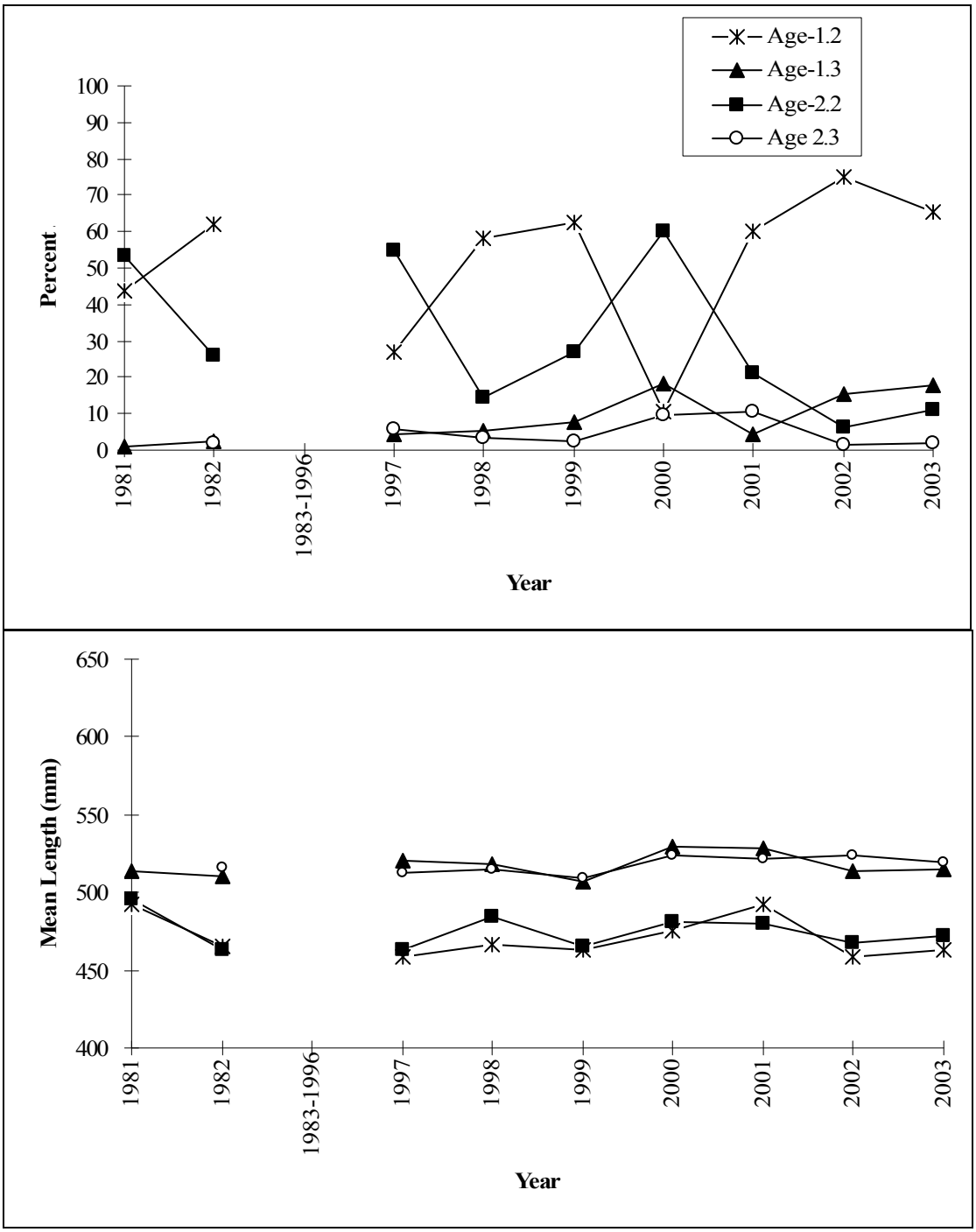


Figure 25.–Age and length composition of sockeye salmon escapement in Cottonwood Creek, Northern Cook Inlet, Alaska, 1981–1982 and 1997–2003.

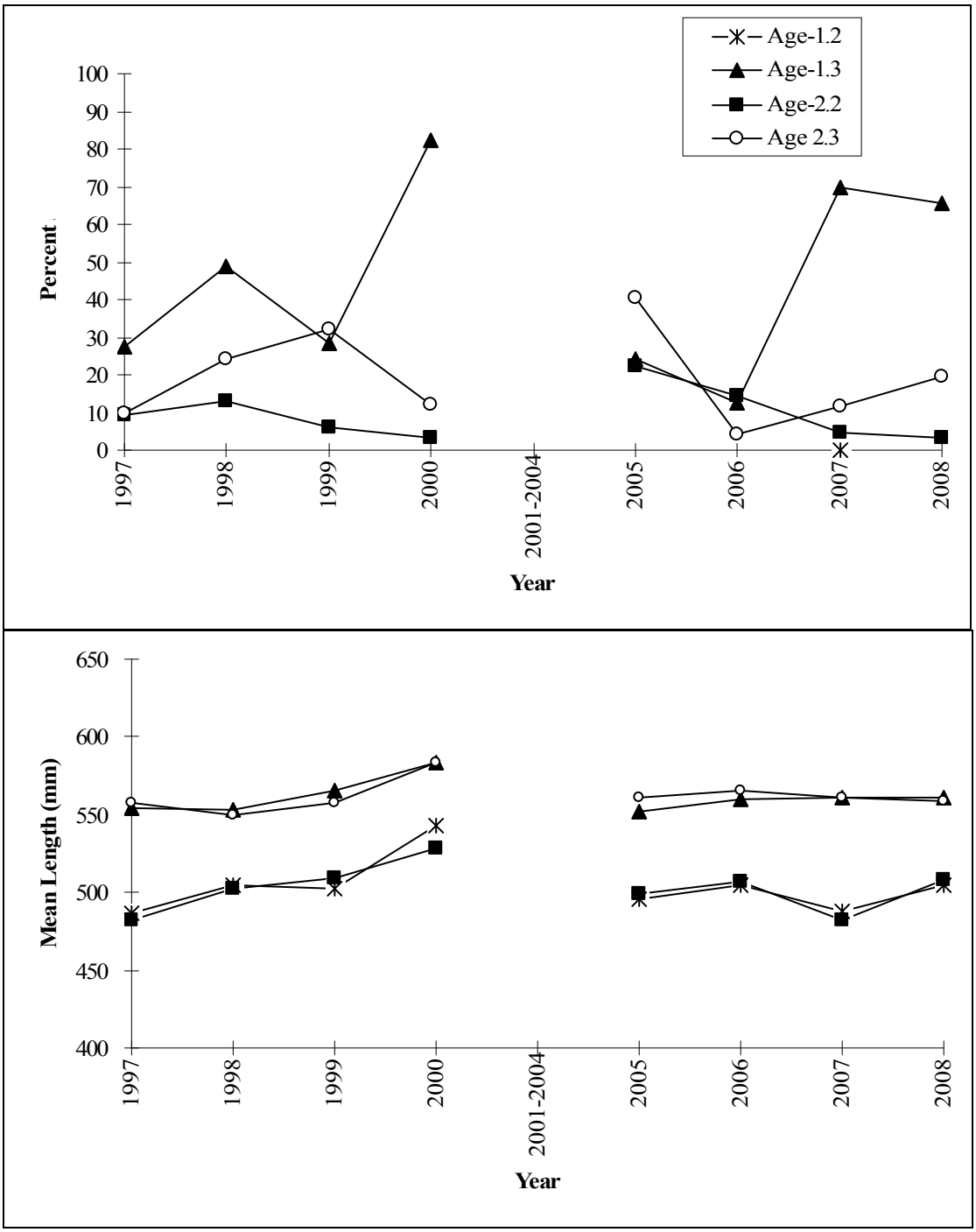


Figure 26.–Age and length composition of sockeye salmon escapement in Larson Lake, Northern Cook Inlet, Alaska, 1997–2000 and 2005–2008.

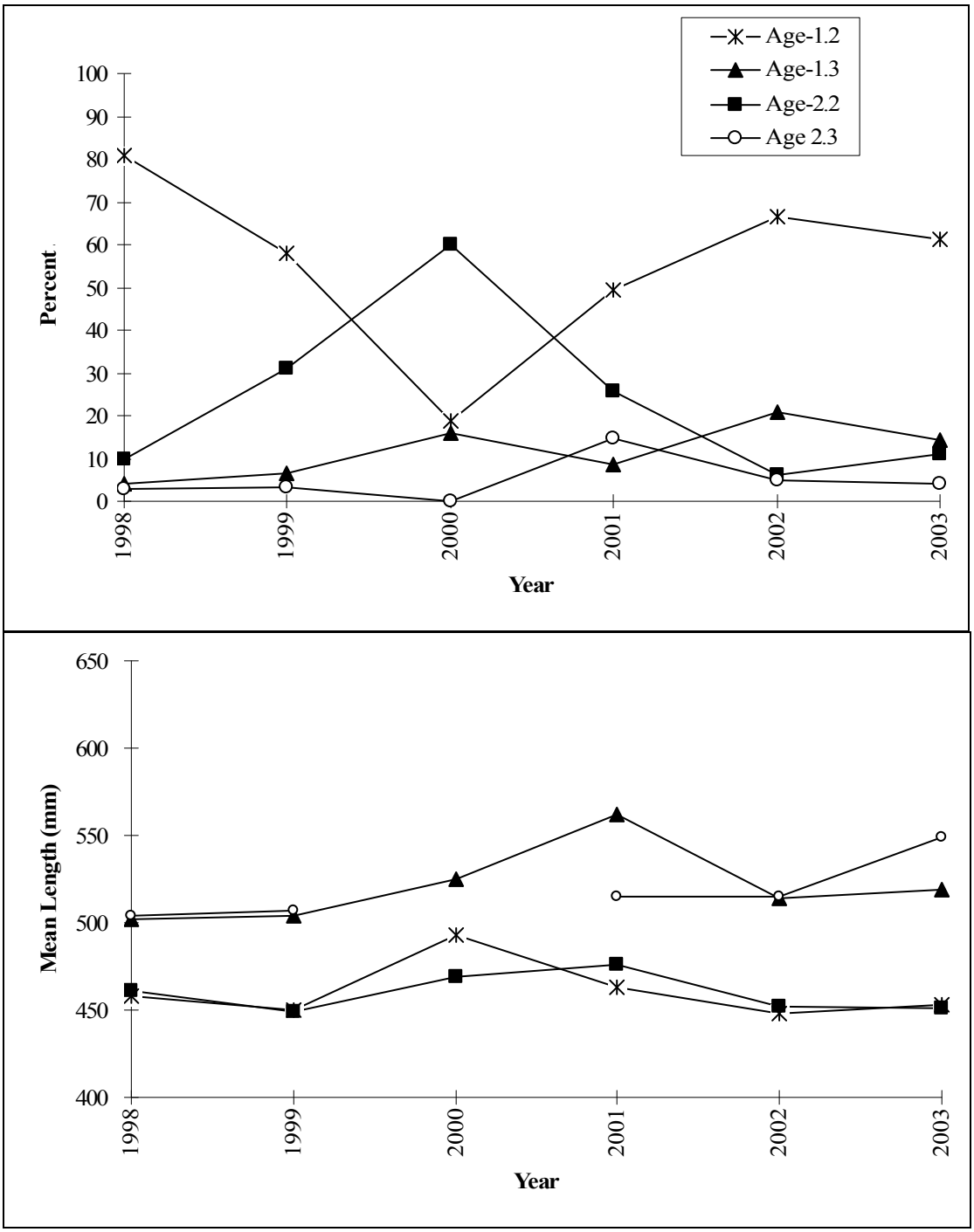


Figure 27.–Age and length composition of sockeye salmon escapement in Wasilla Creek, Northern Cook Inlet, Alaska, 1998–2003.

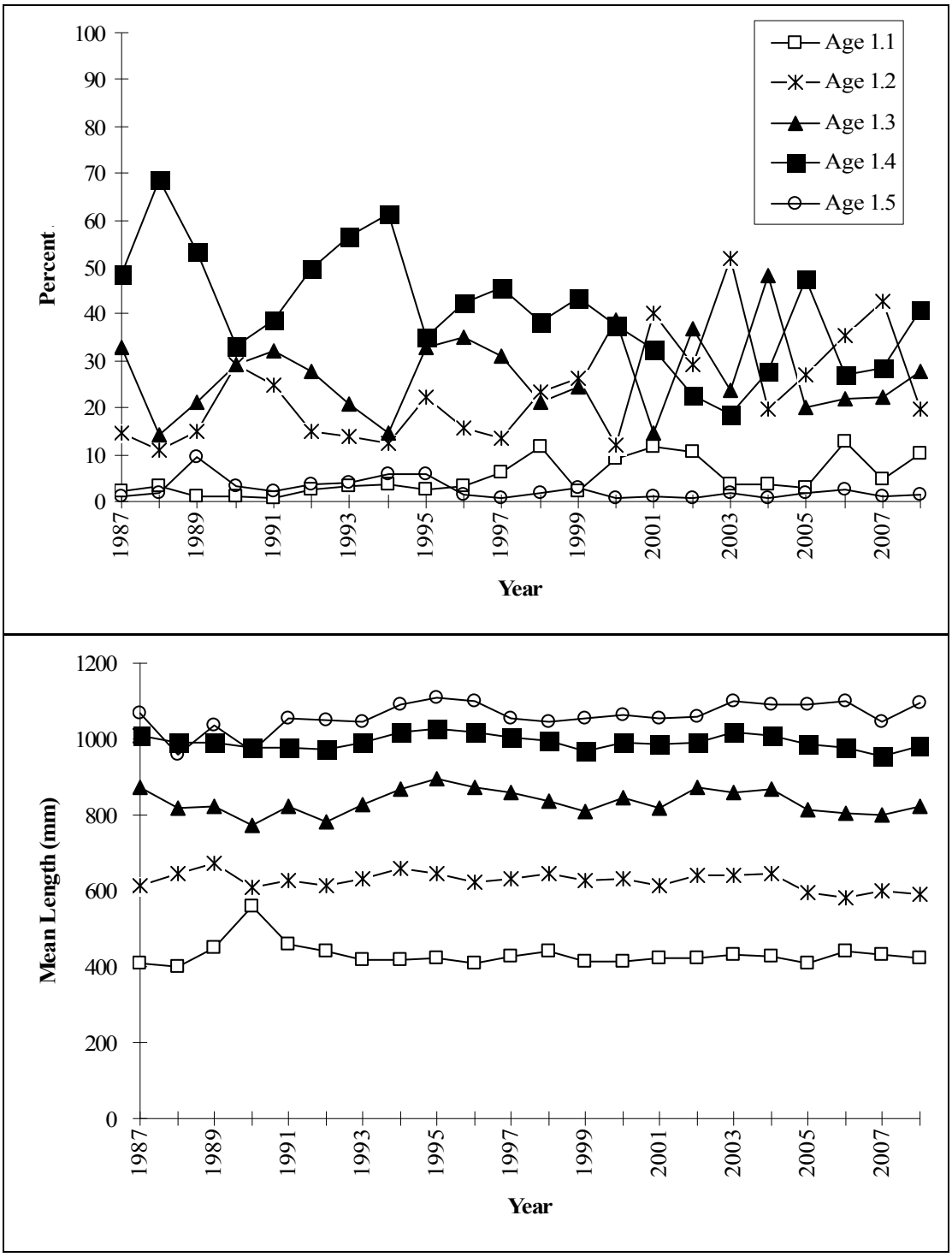


Figure 28.–Age and length composition of Chinook salmon harvested in the Central District, Upper Subdistrict commercial set gillnet fishery, Upper Cook Inlet, Alaska, 1987 to present.

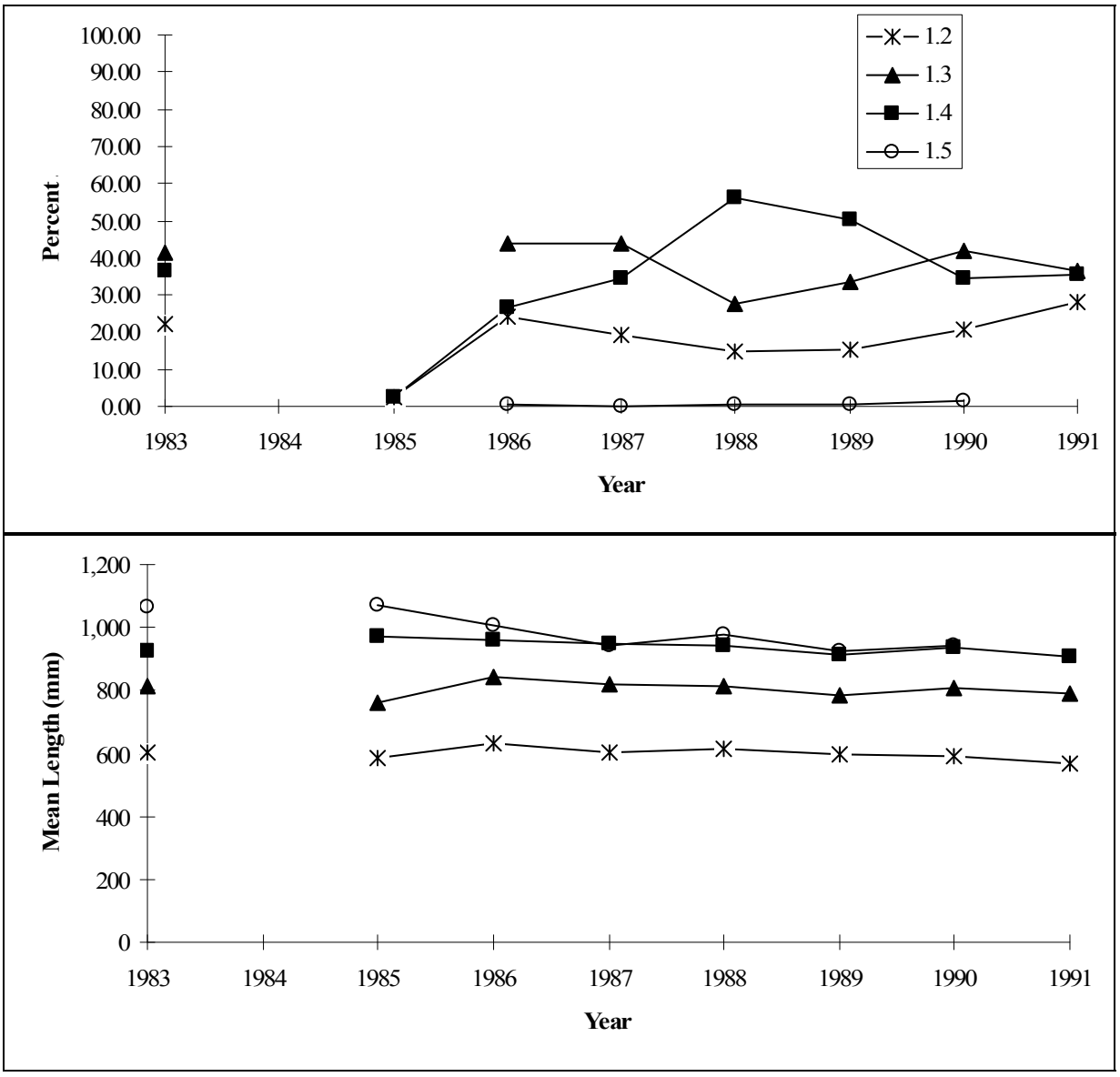


Figure 29.–Age and length composition of Chinook salmon harvested in the Northern District, General Subdistrict commercial set gillnet fishery, Upper Cook Inlet, Alaska, 1983–1991.

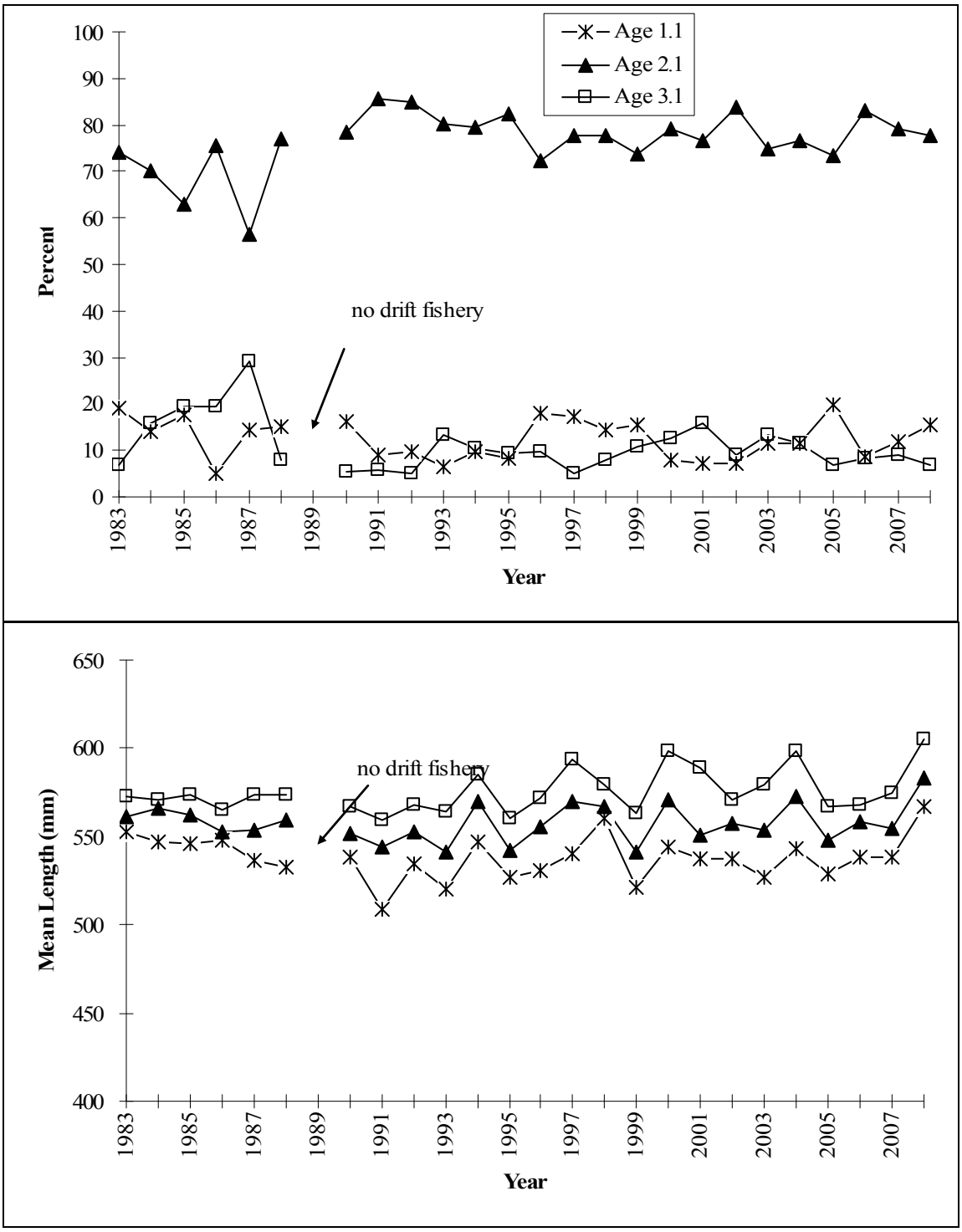


Figure 30.–Age and length composition of coho salmon harvested in the Central District commercial drift gillnet fishery, Upper Cook Inlet, Alaska, 1983 to present.

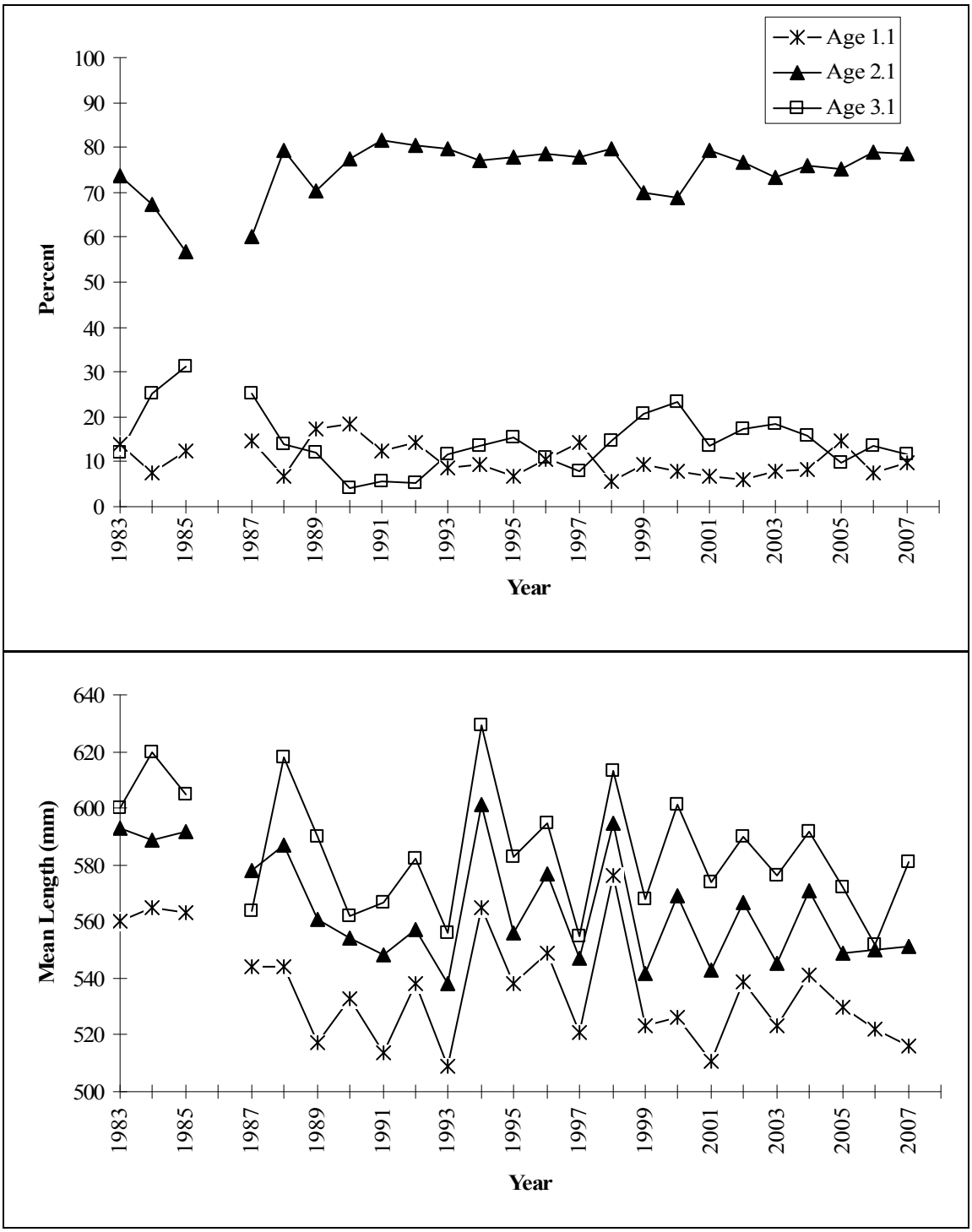


Figure 31.–Age and length composition of coho salmon harvested in the Central District, Upper Subdistrict commercial set gillnet fishery, Upper Cook Inlet, Alaska, 1983 to present.

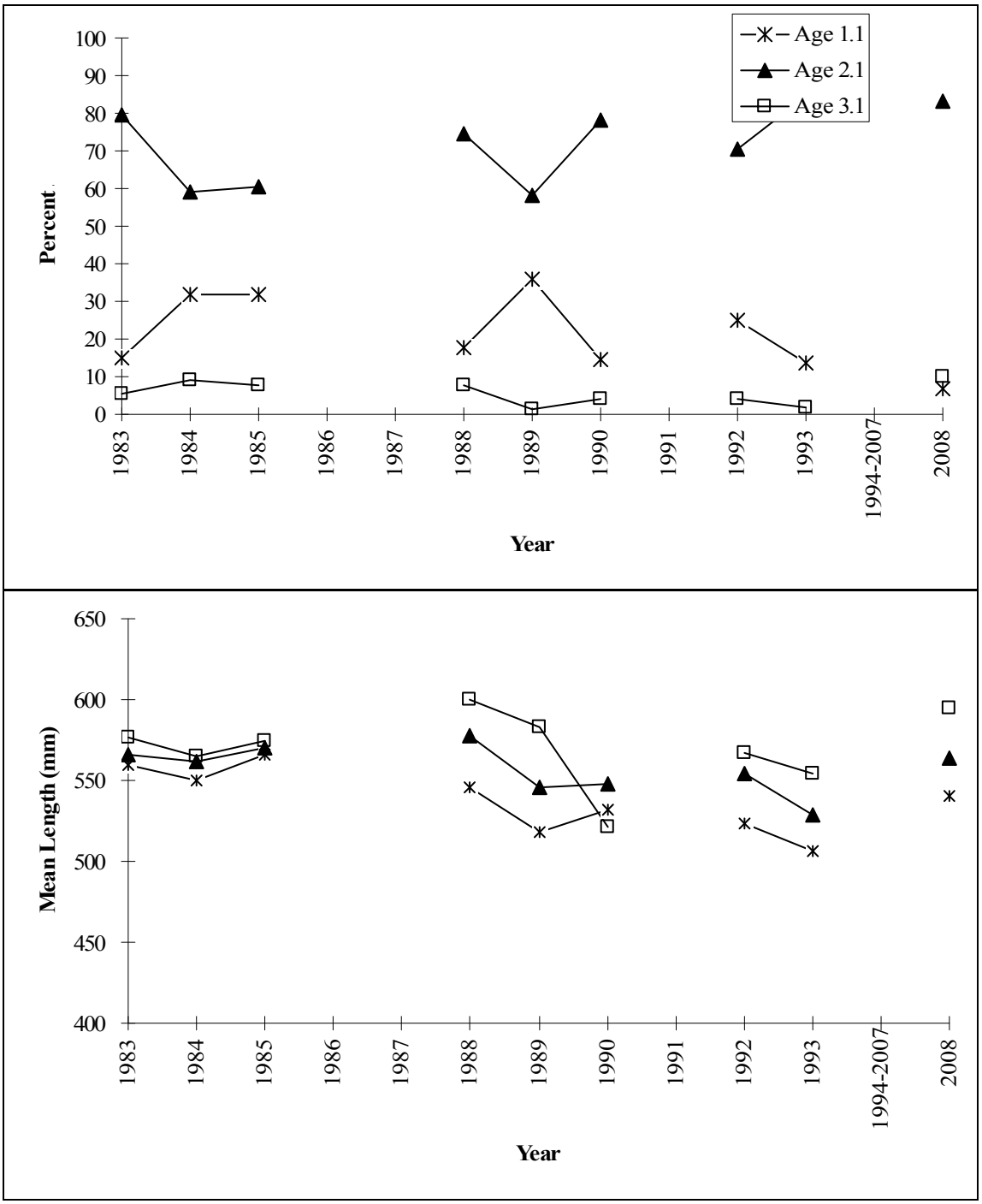


Figure 32.–Age and length composition of coho salmon harvested in the Central District, Western Subdistrict commercial set gillnet fishery, Upper Cook Inlet, Alaska, 1983 to present.

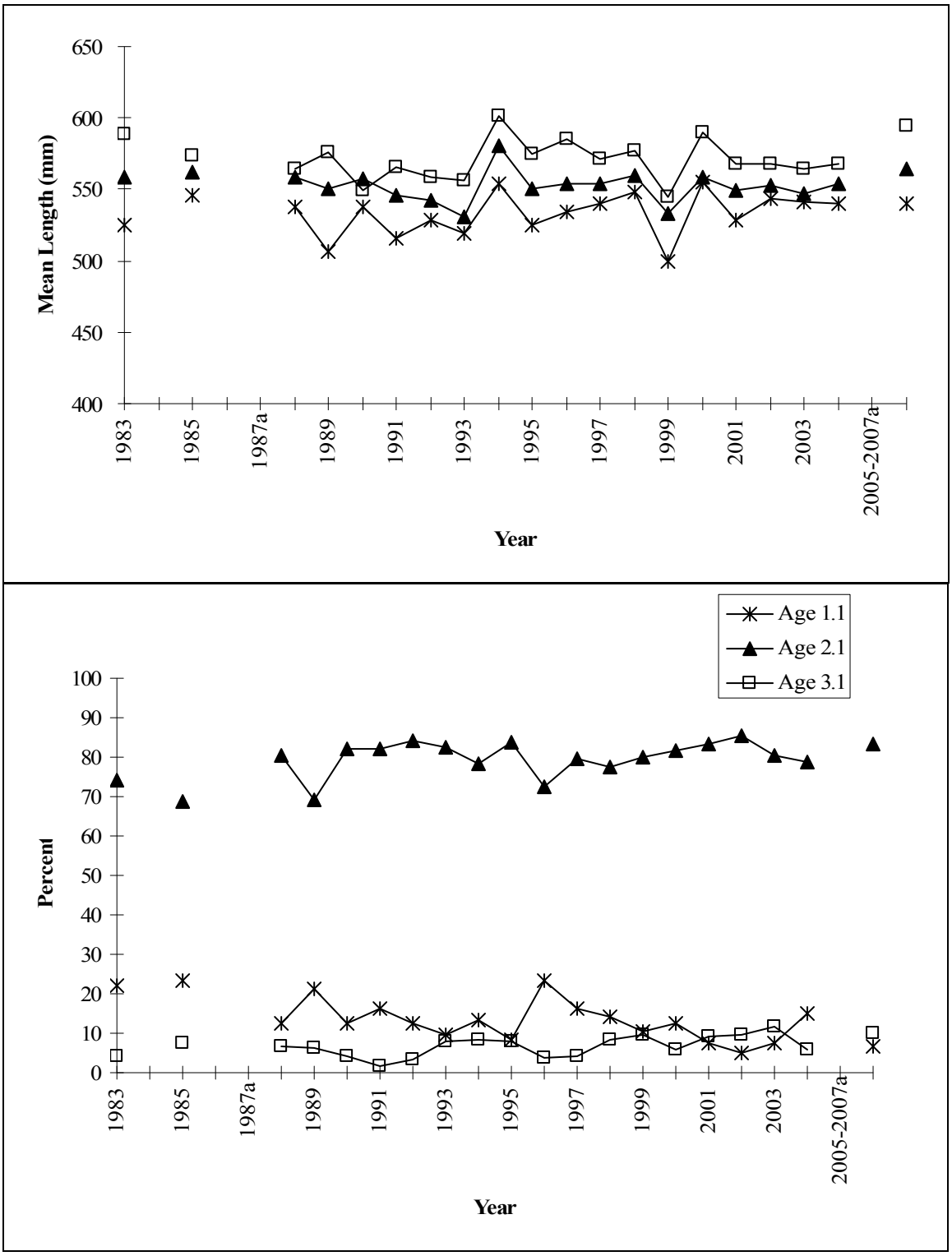


Figure 33.–Age and length composition of coho salmon harvested in the Northern District, General Subdistrict commercial set gillnet fishery, Upper Cook Inlet, Alaska, 1983 to present.

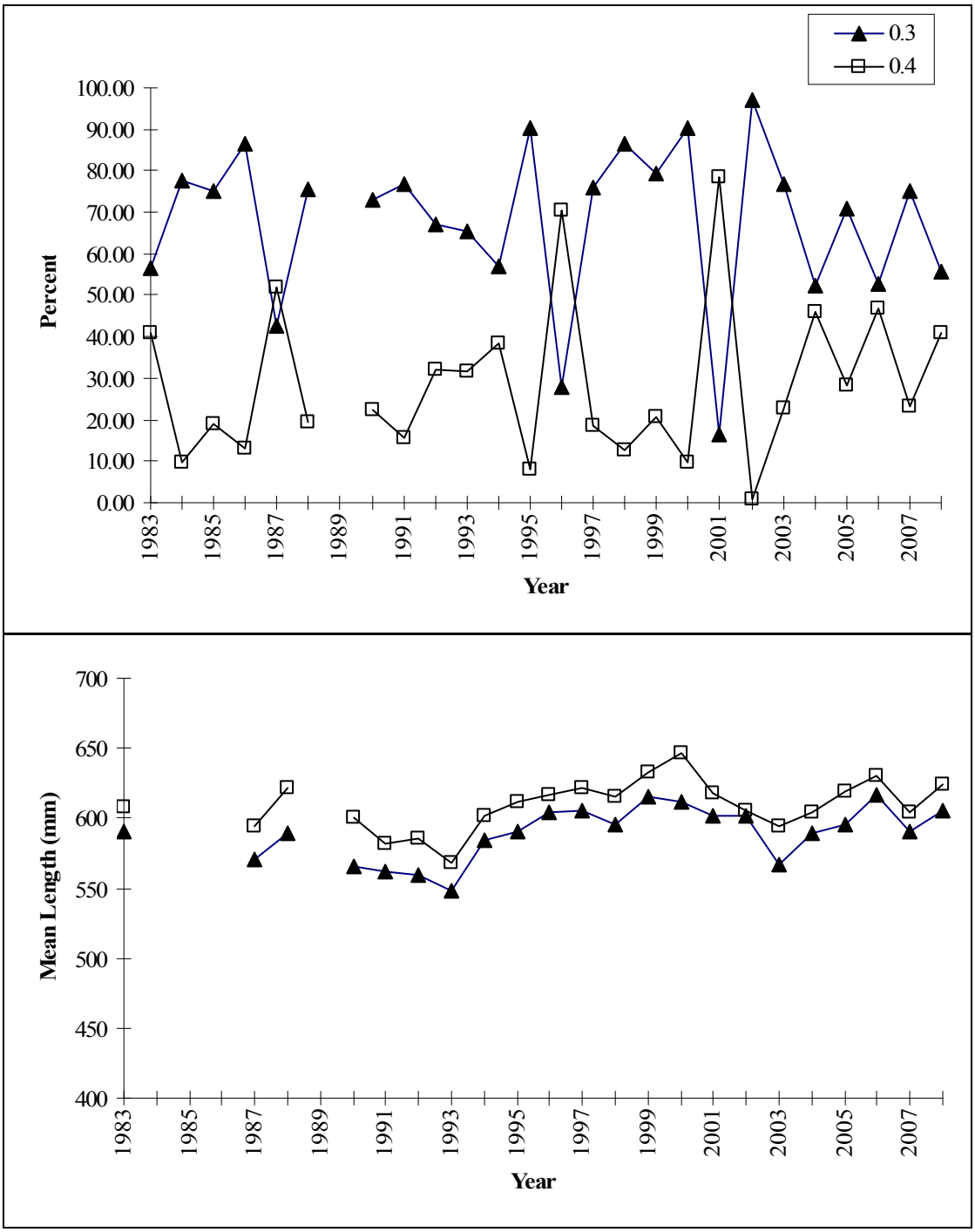


Figure 34.–Age and length composition of chum salmon harvested in the commercial drift gillnet fishery, Upper Cook Inlet, Alaska, 1983 to present.

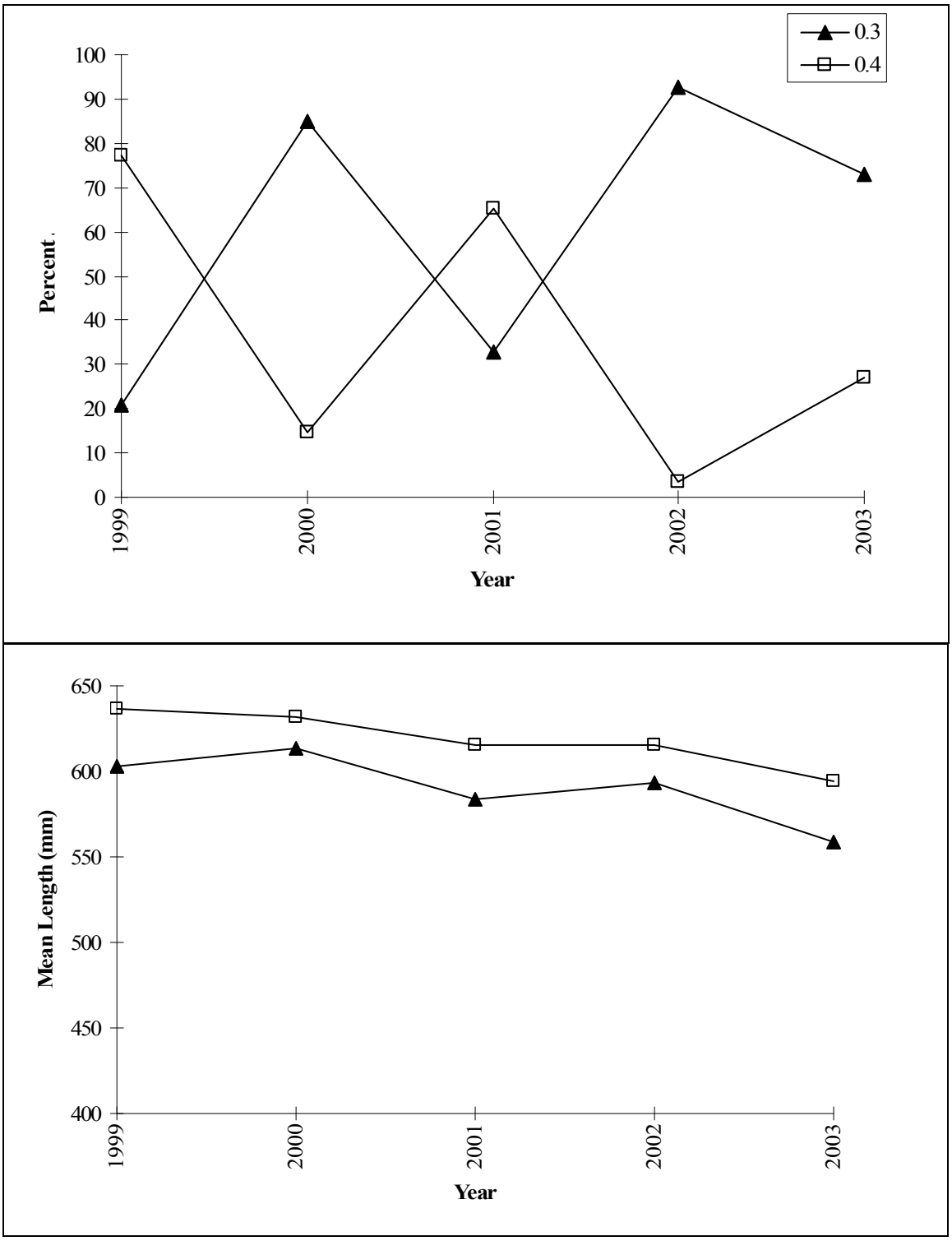


Figure 35.–Age and length composition of chum salmon escapement in Little Susitna River, Northern District, Upper Cook Inlet, Alaska, 1999 to 2003.

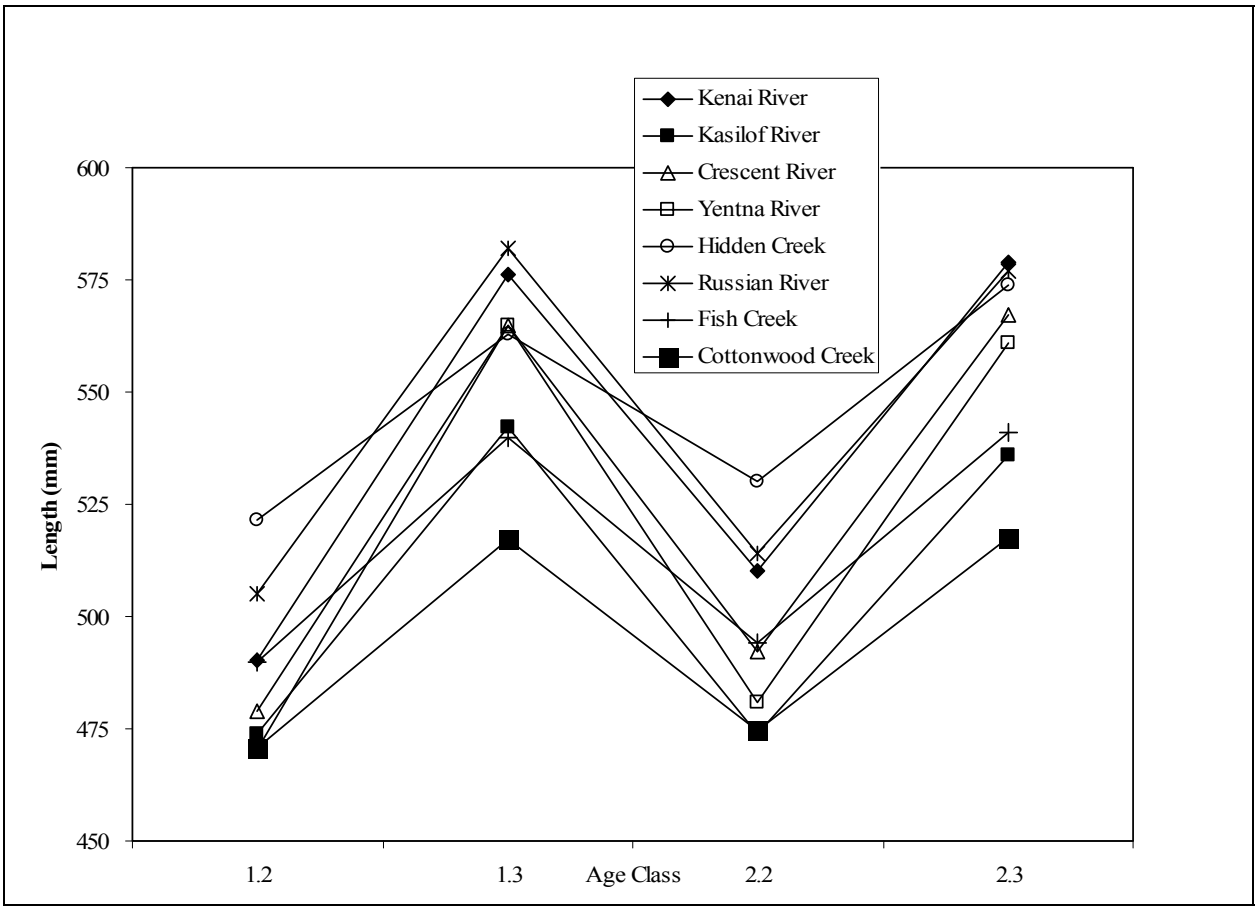


Figure 36.–Historic mean lengths from major escapement river systems, Upper Cook Inlet, Alaska.

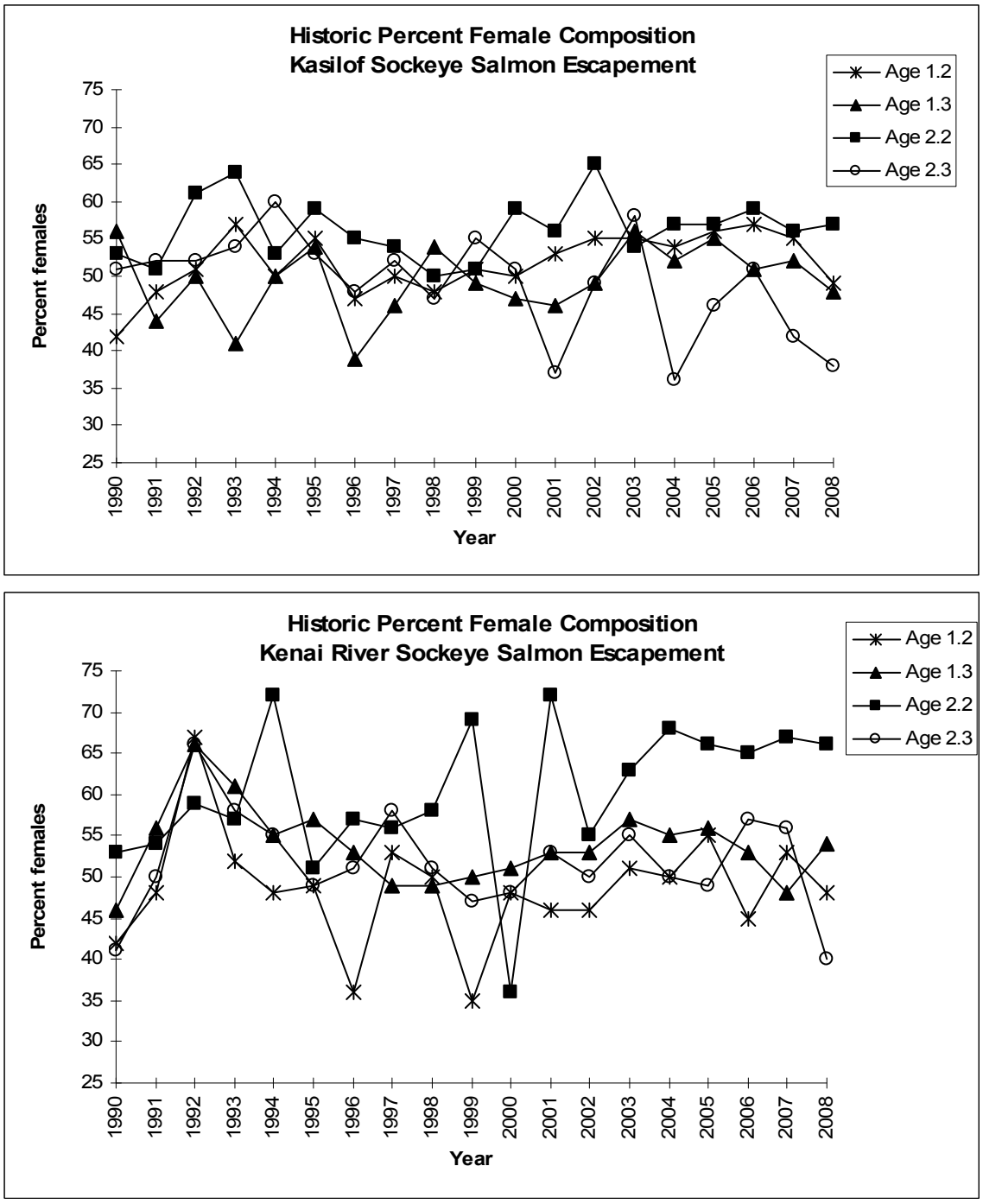
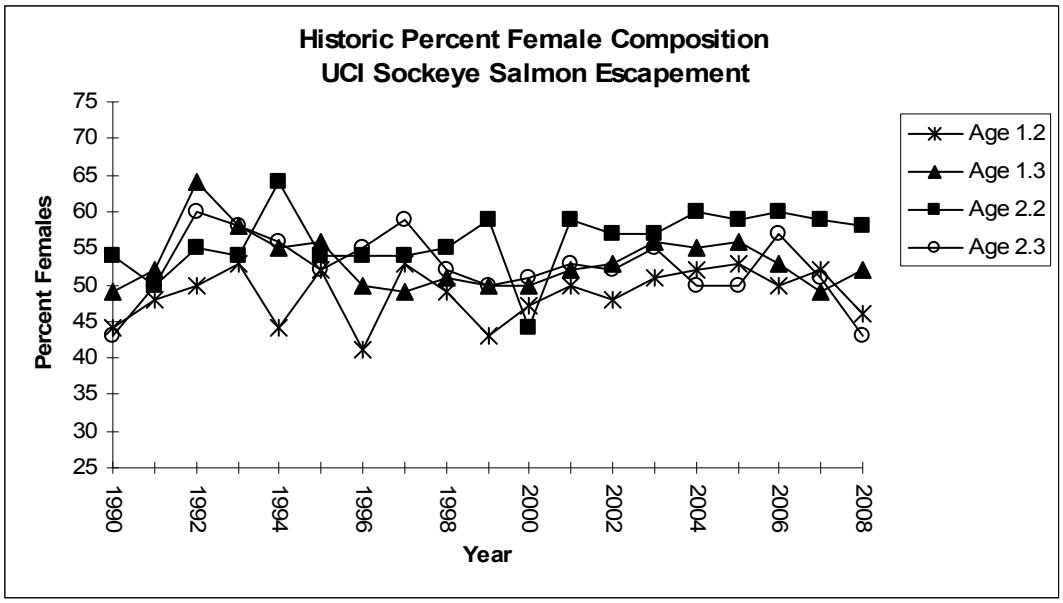


Figure 37.–Historic percent female composition Kasilof and Kenai River escapements, Upper Cook Inlet, Alaska, 1990–2008.



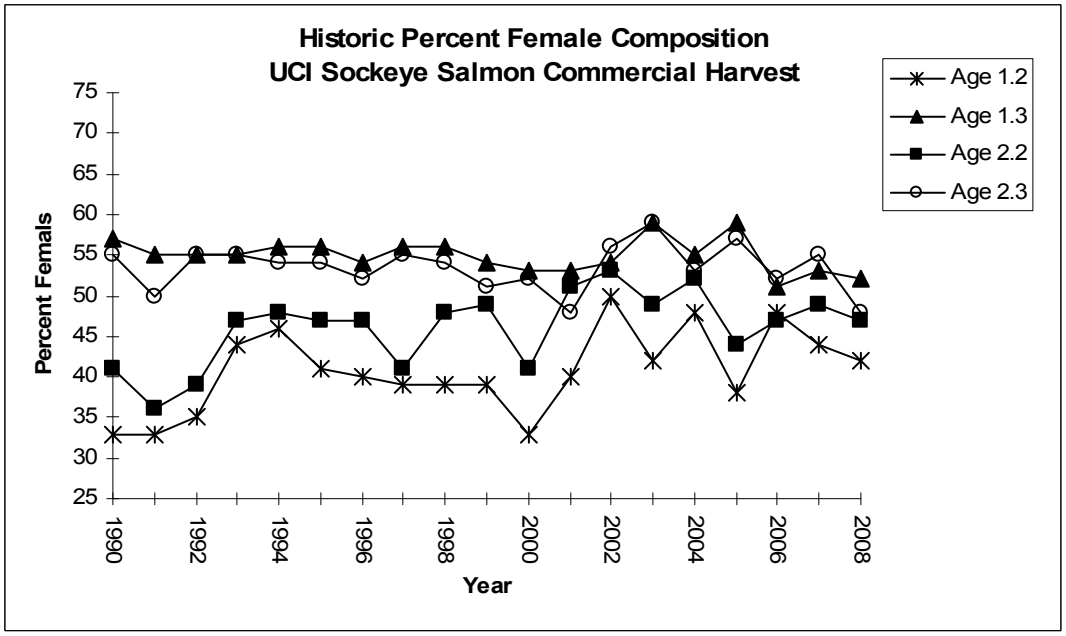
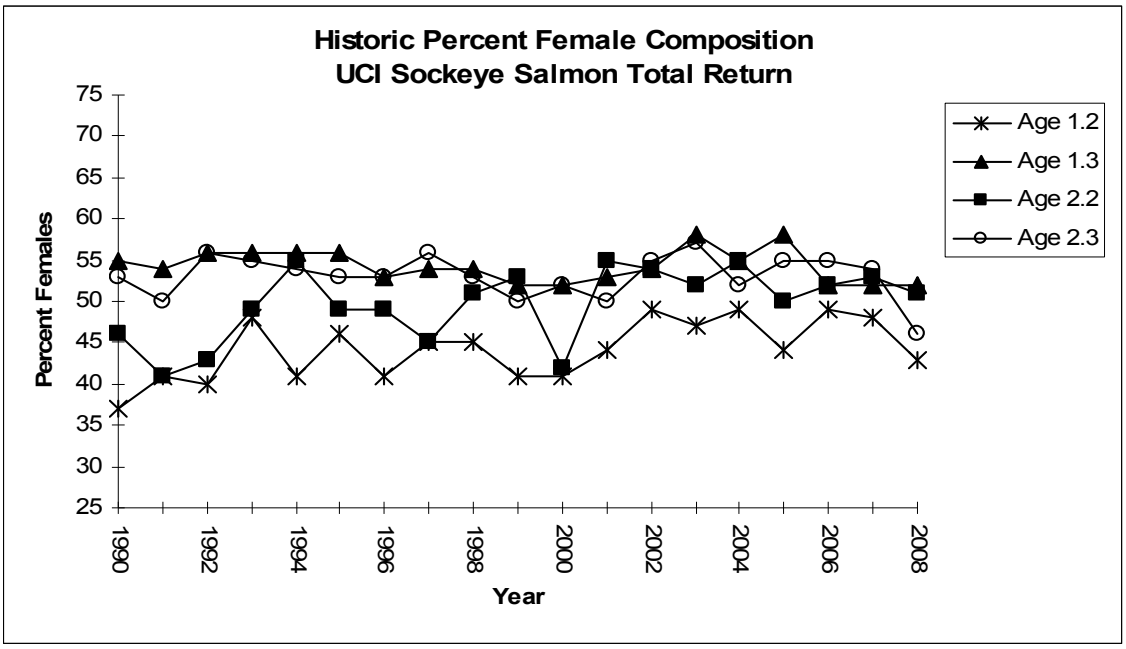


Figure 38.–Historic percent female composition Upper Cook Inlet escapements and commercial harvest, 1990 to present.



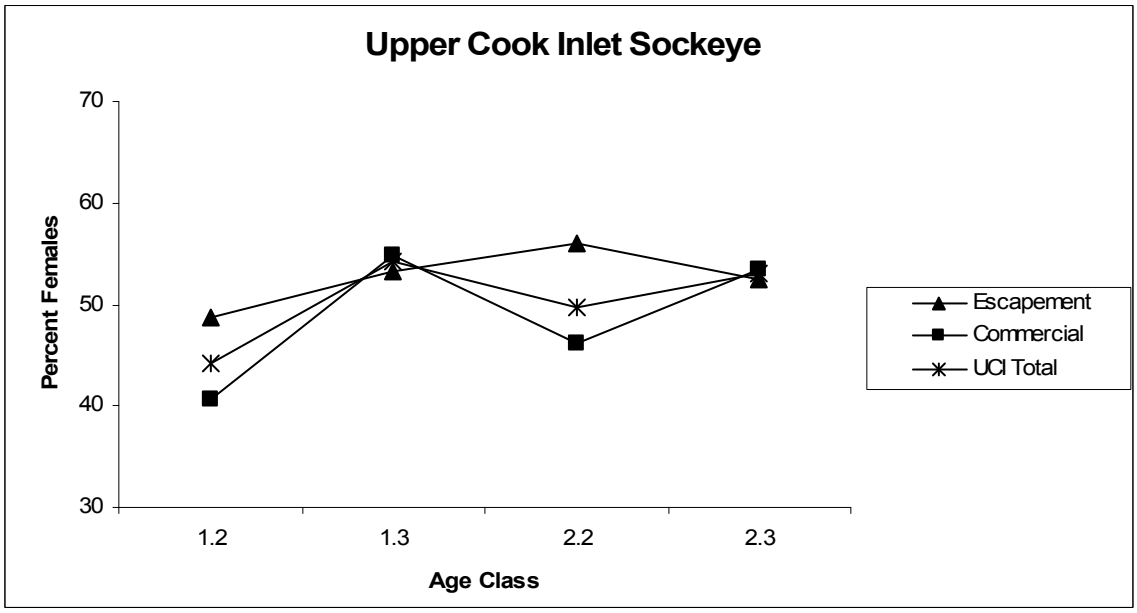


Figure 39.–Historic percent female composition Upper Cook Inlet total return and average by age class, 1990 to present.