

AGE AND LENGTH COMPOSITION
OF SOCKEYE, CHINOOK, COHO, AND CHUM SALMON FROM 1979-1996
AND
SOCKEYE SALMON FEMALE CONTRIBUTION FROM 1987-1996
IN SELECTED COMMERCIAL FISHERIES AND RIVER ESCAPEMENTS,
UPPER COOK INLET, ALASKA

by
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INTRODUCTION

The pioneering work of Davis and Kissner (1969) in Upper Cook Inlet (UCI) provided a framework from which age, sex and length data collection began. Unfortunately in the early years (1964-78) the sample collection of commercial harvest and escapement data was sporadic and limited compared to the present. With the advent of stock separation studies in 1978, sampling of sockeye salmon in the commercial fisheries and escapements became the major emphasis until 1983. Since 1983, the yearly sampling for and collection of age and length composition information for sockeye, chinook, coho, and chum salmon has been an integral part of research activities in UCI (Bethe et al. 1980; Cross et al. 1981, 1982, 1983, 1985, 1987; Cross 1985; Waltemyer 1989, 1990, 1991, 1993, 1994, 1995, Tobias and Waltemyer 1996; Waltemyer and Tobias 1997).

Davis and Tarbox (1985) produced a compendium of information for the period 1964-1981 to summarize yearly results. Since 1981, age, sex and length information has been compiled in yearly reports which makes for tedious searching if interested in comparing yearly results. Thus, the purpose of this report is to compile all pertinent and available information since 1979 to produce a time series of information that can be utilized effectively for assessing yearly variations and possible trends in age, length and sex composition.

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 1955, 1962).

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

Age, sex and length compositions of the commercial catches were estimated using a stratified systematic random sampling design (Cochran 1977). A minimum sample size of 403 readable scales was defined for each species and strata to estimate simultaneously the proportion of each major age class in the harvest within five percent of the true proportion 90% of the time (Thompson 1987). A sample size of 500 fish per strata for sockeye salmon harvested in the commercial fisheries sampling was set to account for unreadable scales. For escapements a single sample size of 500 fish was defined to provide the same level of precision. Escapement samples were weighted over time by sampling a fixed proportion of fish captured by fish wheel each day.

The number of temporal and spatial strata selected for sampling differed among commercial fisheries, escapements and species. The number of temporal strata was set to detect changes in seasonal age composition. Definitions of spatial strata for commercial harvests were based on UCI management district or subdistrict designations. Frequency and priority of sampling was based on the historical harvest contribution of a fishery to the total UCI commercial harvest. Because the escapements were

weighted through time no stratification was necessary. The following tables represent the composite of all strata combined by year in a particular commercial fishery or escapement.

RESULTS

Tables 1-16 and Figures 2-17 present age and length composition of sockeye salmon for eight commercial gillnet fisheries and escapement sites for sockeye salmon starting in 1979. Tables 17-20 and Figures 18-19 present age and length composition of chinook salmon for three commercial gillnet fisheries and the combined Upper Subdistrict starting in 1979. Summary tables 21-24 and Figures 20-23 present age and length composition for coho salmon in four commercial gillnet fisheries starting in 1983. Table 25 and Figure 24 shows the age and length composition for chum salmon in the commercial drift gillnet fishery starting in 1983. Table 26 presents percent female information for sockeye salmon in seven commercial gillnet fisheries and six escapements starting in 1987.

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Table 1. Age and length composition of sockeye salmon harvested in the Central District commercial drift gillnet fishery, Upper Cook Inlet, Alaska, 1979-1996.

Year	Sample Size	Percent Composition by Age Class (%)															Total	
		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					29.10			51.00	12.00			5.70				2.20	100
1980	1,545					31.60			49.70	7.90			10.50				0.30	100
1981	5,845					12.60			77.40	5.30			4.70					100
1982	7,364			0.03		6.55			83.72	2.16		0.17	7.36					100
1983	8,541				1.60	14.80			73.60	2.20		0.40	7.30					100
1984	5,872		0.10		2.00	16.30			55.00	7.60		1.20	17.70		0.10			100
1985	7,709		0.10		1.50	13.20			68.40	6.00		0.50	10.10	0.10	0.10			100
1986	7,918		0.10		1.10	17.80			58.80	8.30		0.20	13.70					100
1987	7,675		0.01		0.57	9.29			77.33	3.66		0.12	9.02					100
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			100
1989	*																	
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	100
1991	2,511				2.49	13.93	0.01	0.13	56.55	6.21		0.34	20.28				0.06	100
1992	6,779				0.32	2.75			83.87	3.43		0.11	9.50		0.03			100
1993	10,466		0.03		1.23	7.34	0.01		37.99	8.35		1.63	43.20	0.01	0.17	0.01		100
1994	6,614		0.03		0.68	5.32	0.01		65.04	7.32		0.17	21.06	0.01	0.36			100
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		100
1996	4,859		0.10		0.37	10.81	0.04		68.73	7.58		0.24	11.86	0.02	0.25			100
Mean			0.08	0.03	1.13	13.54	0.03	0.09	62.83	6.52		0.45	15.54	0.05	0.15	0.03	0.66	

Year	Sample Size	Mean Length by Age Class (mm)															Total	
		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						502			577	506			581	572				
1980						509			571	518			602	570				
1981																		
1982						504			559	514			598	563	555			
1983		550	464	565	509				571	518			602	570				
1984					560	504			559	514			598	563	555			
1985				456	555	501		603	555	518			569	561	524			
1986			565		567	498			559	509			563	570		623		
1987						487			529	459			341	540				522
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
Mean			483	447	567	500	427	612	564	506	370	575	566	526	590	562	592	554

* 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.

Year	Percent Composition by Age Class (%)										Mean
	0.1	0.2	0.3	0.4	1.3	2.2	3.1	1.4	2.3	3.2	
1979	0.60				42.70	14.00		3.70			
1980	0.20				35.00	13.40		9.60			
1981	0.20				61.60	9.20		3.40			
1982	0.20				64.43	6.88		6.29			
1983	0.10				63.70	5.50		9.00			
1984	0.10				33.80	17.60		11.10			
1985	0.10				44.40	14.60		5.80			
1986	0.10				32.20	16.70		8.70			
1987	0.06				63.26	9.32		0.19			
1988	0.06				49.35	14.78		0.48			
1989	0.18				69.28	5.60		0.21			
1990	0.06				36.87	19.40		0.30			
1991	0.01				30.88	23.91		0.08			
1992	0.06				62.39	10.81		20.60			
1993	0.06				31.55	16.35		2.52			
1994	0.07				46.76	21.01		0.47			
1995	0.01				24.79	17.25		0.72			
1996	0.04				57.75	17.10		0.17			
1979	0.06				47.37	14.08		0.55			
1980	0.19				14.15			9.63			
1981	0.06				29.28			0.05			
1982	0.07				17.29			0.01			
1983	0.25				39.20			0.07			
1984	0.08				20.60			0.04			
1985	0.08				16.16			0.01			
1986	0.08				27.72			0.08			
1987	0.07				9.40			0.09			
1988	0.07				13.87			0.09			
1989	0.07				11.87			0.09			
1990	0.07				12.54			0.20			
1991	0.07				12.54			0.10			
1992	0.07				8.70			0.10			
1993	0.07				17.29			0.10			
1994	0.07				17.29			0.10			
1995	0.05				29.28			0.05			
1996	0.05				29.28			0.05			
1979	0.1	0.2	0.3	0.4	1.3	2.2	3.1	1.4	2.3	3.2	3.3
1979	0.1	0.2	0.3	0.4	1.3	2.2	3.1	1.4	2.3	3.2	3.3
1980	0.1	0.2	0.3	0.4	1.3	2.2	3.1	1.4	2.3	3.2	3.3
1981	0.1	0.2	0.3	0.4	1.3	2.2	3.1	1.4	2.3	3.2	3.3
1982	0.1	0.2	0.3	0.4	1.3	2.2	3.1	1.4	2.3	3.2	3.3
1983	0.1	0.2	0.3	0.4	1.3	2.2	3.1	1.4	2.3	3.2	3.3
1984	0.1	0.2	0.3	0.4	1.3	2.2	3.1	1.4	2.3	3.2	3.3
1985	0.1	0.2	0.3	0.4	1.3	2.2	3.1	1.4	2.3	3.2	3.3
1986	0.1	0.2	0.3	0.4	1.3	2.2	3.1	1.4	2.3	3.2	3.3
1987	0.1	0.2	0.3	0.4	1.3	2.2	3.1	1.4	2.3	3.2	3.3
1988	0.1	0.2	0.3	0.4	1.3	2.2	3.1	1.4	2.3	3.2	3.3
1989	0.1	0.2	0.3	0.4	1.3	2.2	3.1	1.4	2.3	3.2	3.3
1990	0.1	0.2	0.3	0.4	1.3	2.2	3.1	1.4	2.3	3.2	3.3
1991	0.1	0.2	0.3	0.4	1.3	2.2	3.1	1.4	2.3	3.2	3.3
1992	0.1	0.2	0.3	0.4	1.3	2.2	3.1	1.4	2.3	3.2	3.3
1993	0.1	0.2	0.3	0.4	1.3	2.2	3.1	1.4	2.3	3.2	3.3
1994	0.1	0.2	0.3	0.4	1.3	2.2	3.1	1.4	2.3	3.2	3.3
1995	0.1	0.2	0.3	0.4	1.3	2.2	3.1	1.4	2.3	3.2	3.3
1996	0.1	0.2	0.3	0.4	1.3	2.2	3.1	1.4	2.3	3.2	3.3
1979	0.1	0.2	0.3	0.4	1.3	2.2	3.1	1.4	2.3	3.2	3.3
1980	0.1	0.2	0.3	0.4	1.3	2.2	3.1	1.4	2.3	3.2	3.3
1981	0.1	0.2	0.3	0.4	1.3	2.2	3.1	1.4	2.3	3.2	3.3
1982	0.1	0.2	0.3	0.4	1.3	2.2	3.1	1.4	2.3	3.2	3.3
1983	0.1	0.2	0.3	0.4	1.3	2.2	3.1	1.4	2.3	3.2	3.3
1984	0.1	0.2	0.3	0.4	1.3	2.2	3.1	1.4	2.3	3.2	3.3
1985	0.1	0.2	0.3	0.4	1.3	2.2	3.1	1.4	2.3	3.2	3.3
1986	0.1	0.2	0.3	0.4	1.3	2.2	3.1	1.4	2.3	3.2	3.3
1987	0.1	0.2	0.3	0.4	1.3	2.2	3.1	1.4	2.3	3.2	3.3
1988	0.1	0.2	0.3	0.4	1.3	2.2	3.1	1.4	2.3	3.2	3.3
1989	0.1	0.2	0.3	0.4	1.3	2.2	3.1	1.4	2.3	3.2	3.3
1990	0.1	0.2	0.3	0.4	1.3	2.2	3.1	1.4	2.3	3.2	3.3
1991	0.1	0.2	0.3	0.4	1.3	2.2	3.1	1.4	2.3	3.2	3.3
1992	0.1	0.2	0.3	0.4	1.3	2.2	3.1	1.4	2.3	3.2	3.3
1993	0.1	0.2	0.3	0.4	1.3	2.2	3.1	1.4	2.3	3.2	3.3
1994	0.1	0.2	0.3	0.4	1.3	2.2	3.1	1.4	2.3	3.2	3.3
1995	0.1	0.2	0.3	0.4	1.3	2.2	3.1	1.4	2.3	3.2	3.3
1996	0.1	0.2	0.3	0.4	1.3	2.2	3.1	1.4	2.3	3.2	3.3
1979	0.1	0.2	0.3	0.4	1.3	2.2	3.1	1.4	2.3	3.2	3.3
1980	0.1	0.2	0.3	0.4	1.3	2.2	3.1	1.4	2.3	3.2	3.3
1981	0.1	0.2	0.3	0.4	1.3	2.2	3.1	1.4	2.3	3.2	3.3
1982	0.1	0.2	0.3	0.4	1.3	2.2	3.1	1.4	2.3	3.2	3.3
1983	0.1	0.2	0.3	0.4	1.3	2.2	3.1	1.4	2.3	3.2	3.3
1984	0.1	0.2	0.3	0.4	1.3	2.2	3.1	1.4	2.3	3.2	3.3
1985	0.1	0.2	0.3	0.4	1.3	2.2	3.1	1.4	2.3	3.2	3.3
1986	0.1	0.2	0.3	0.4	1.3	2.2	3.1	1.4	2.3	3.2	3.3
1987	0.1	0.2	0.3	0.4	1.3	2.2	3.1	1.4	2.3	3.2	3.3
1988	0.1	0.2	0.3	0.4	1.3	2.2	3.1	1.4	2.3	3.2	3.3
1989	0.1	0.2	0.3	0.4	1.3	2.2	3.1	1.4	2.3	3.2	3.3
1990	0.1	0.2	0.3	0.4	1.3	2.2	3.1	1.4	2.3	3.2	3.3
1991	0.1	0.2	0.3	0.4	1.3	2.2	3.1	1.4	2.3	3.2	3.3
1992	0.1	0.2	0.3	0.4	1.3	2.2	3.1	1.4	2.3	3.2	3.3
1993	0.1	0.2	0.3	0.4	1.3	2.2	3.1	1.4	2.3	3.2	3.3
1994	0.1	0.2	0.3	0.4	1.3	2.2	3.1	1.4	2.3	3.2	3.3
1995	0.1	0.2	0.3	0.4	1.3	2.2	3.1	1.4	2.3	3.2	3.3
1996	0.1	0.2	0.3	0.4	1.3	2.2	3.1	1.4	2.3	3.2	3.3
1979	0.1	0.2	0.3	0.4	1.3	2.2	3.1	1.4	2.3	3.2	3.3
1980	0.1	0.2	0.3	0.4	1.3	2.2	3.1	1.4	2.3	3.2	3.3
1981	0.1	0.2	0.3	0.4	1.3	2.2	3.1	1.4	2.3	3.2	3.3
1982	0.1	0.2	0.3	0.4	1.3	2.2	3.1	1.4	2.3	3.2	3.3
1983	0.1	0.2	0.3	0.4	1.3	2.2	3.1	1.4	2.3	3.2	3.3
1984	0.1	0.2	0.3	0.4	1.3	2.2	3.1	1.4	2.3	3.2	3.3
1985	0.1	0.2	0.3	0.4	1.3	2.2	3.1	1.4	2.3	3.2	3.3
1986	0.1	0.2	0.3	0.4	1.3	2.2	3.1	1.4	2.3	3.2	3.3
1987	0.1	0.2	0.3	0.4	1.3	2.2	3.1	1.4	2.3	3.2	3.3
1988	0.1	0.2	0.3	0.4	1.3	2.2	3.1	1.4	2.3	3.2	3.3
1989	0.1	0.2	0.3	0.4	1.3	2.2	3.1	1.4	2.3	3.2	3.3
1990	0.1	0.2	0.3	0.4	1.3	2.2	3.1	1.4	2.3	3.2	3.3
1991	0.1	0.2	0.3	0.4	1.3	2.2	3.1	1.4	2.3	3.2	3.3
1992	0.1	0.2	0.3	0.4	1.3	2.2	3.1	1.4	2.3	3.2	3.3
1993	0.1	0.2	0.3	0.4	1.3	2.2	3.1	1.4	2.3	3.2	3.3
1994	0.1	0.2	0.3	0.4	1.3	2.2	3.1	1.4	2.3	3.2	3.3
1995	0.1	0.2	0.3	0.4	1.3	2.2	3.1	1.4	2.3	3.2	3.3
1996	0.1	0.2	0.3	0.4	1.3	2.2	3.1	1.4	2.3	3.2	3.3
1979	0.1	0.2	0.3	0.4	1.3	2.2	3.1	1.4	2.3	3.2	3.3
1980	0.1	0.2	0.3	0.4	1.3	2.2	3.1	1.4	2.3	3.2	3.3
1981	0.1	0.2	0.3	0.4	1.3	2.2	3.1	1.4	2.3	3.2	3.3
1982	0.1	0.2	0.3	0.4	1.3	2.2</					

Table 3. Age and length composition of sockeye salmon harvested in the Kallifonsky Beach commercial set gillnet fishery, Upper Cook Inlet, Alaska, 1979-1996.

Year	Sample Size	Percent Composition by Age Class (%)														Total		
		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					43.00			45.70	9.40			1.50				0.40	100
1980	1,522					26.90			47.80	11.00			13.90				0.40	100
1981	2,064					24.00			67.20	6.20			2.50				0.10	100
1982	2,772			0.04		16.93	0.03		70.97	6.45		0.05	5.53					100
1983	4,404				0.40	14.80			73.00	4.40		0.50	6.90					100
1984	3,319		0.10		0.70	29.40			38.20	16.30		1.00	14.20	0.10				100
1985	7,031			0.10	0.20	39.30	0.10		41.80	12.80		0.40	5.30					100
1986	2,362				0.30	39.90			33.50	14.90		0.30	11.00		0.10			100
1987	2,214				0.09	24.62			52.53	14.95			7.81					100
1988	2,629					13.88			62.42	9.43		0.46	13.66		0.15			100
1989	2,686		0.04			21.37	0.04		68.43	3.54		0.34	6.24					100
1990	1,960				0.10	8.79			53.72	8.03		0.63	28.04	0.18	0.44	0.09		100
1991	2,011				1.62	26.94			40.30	14.24		0.13	16.77					100
1992	2,661				0.12	5.06	0.09		74.79	11.71			8.24			0.05		100
1993	2,168		0.05		0.41	12.13	0.07		29.04	16.77		1.12	40.11			0.25	0.06	100
1994	2,227				0.34	10.12	0.18	0.07	56.74	15.48		0.56	16.15		0.26	0.09		100
1995	2,225				0.29	25.23			26.14	16.03		0.53	31.34	0.11	0.33			100
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		100
Mean			0.06	0.06	0.38	22.09	0.08	0.07	52.09	11.74		0.47	13.24	0.11	0.23	0.06	0.30	

Year	Sample Size	Mean Length by Age Class (mm)														Total			
		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																			
1980																			
1981																			
1982						482			561	479			566						
1983					558	490			565	492			562						
1984					573	477			549	487		594	549		537				
1985			453	368	561	478	378		547	492		571	547	480	596				
1986			414		547	481			546	485		571	554		553				
1987	766				483	472			589	487			569						558
1988	2,274					490			587	502		617	588		660				566
1989	2,684		601			490	578		573	511		574	581						552
1990	1,960				456	487			566	499		606	573	503	578	605			556
1991	2,011				545	479			537	478		625	542						514
1992	2,661				559	473	392		563	479			548		578				547
1993	2,168		425		538	470	365		552	483		584	558		599	580			536
1994	2,227				560	462	394	565	560	479		581	553		611	530			536
1995	2,225				568	496			571	499		629	582	527	588				544
1996	2,426			349	594	489	380		580	490		627	570	533	586	575			547
Mean			473	359	545	481	415	565	563	489		598	563	511	589	573			546

Table 5. Age and length composition of sockeye salmon harvested in the Central District, Western Subdistrict commercial set gillnet fishery, Upper Cook Inlet, Alaska, 1979-1996.

Year	Sample Size	Percent Composition by Age Class (%)													Total		
		0.1	0.2	1.1	0.3	1.2	1.2	2.1	0.4	1.3	2.2	3.1	1.4	2.3		2.4	3.3
1979	2,423					28.90			63.40	5.80				1.60			100
1980	1,150					10.40			79.00	7.00				3.60			100
1981	1,169					14.60			51.60	7.90				25.90			100
1982	1,557			0.08		10.34		0.11	77.18	2.64		0.03		9.62			100
1983	1,677					16.60			50.50	15.10		0.30		17.30			100
1984	2,750					5.20			25.80	18.10		0.20		50.20	0.10	0.20	100
1985	3,313		0.10			4.90			45.40	8.90		0.40		40.00			100
1986	964					7.60			22.80	19.10				48.80	0.80		100
1987	1,036					7.14			51.06	7.72		0.29		33.20	0.10	0.10	100
1988	823					15.31		0.12	53.71	13.49				17.13			100
1989	655			0.15		7.63			80.61	1.07		0.46		10.08			100
1990	676					3.55			40.09	7.99		0.44		47.49	0.29		100
1991	256					5.86			47.66	14.45		0.78		31.25			100
1992	1,351			0.10		13.58		0.10	44.59	9.84				31.73			100
1993	1,041					18.83			35.93	29.30				15.89	0.05		100
1994	*																
1995	*																
1996	b																
Mean		0.10	0.11	0.23	0.23	11.36	0.15		51.29	11.23		0.36		25.59	0.27	0.15	0.15

Year	Sample Size	Mean Length by Age Class (mm)													Total		
		0.1	0.2	1.1	0.3	1.2	1.2	2.1	0.4	1.3	2.2	3.1	1.4	2.3		2.4	3.3
1979																	
1980																	
1981																	
1982						482			556	504				548			
1983		523			528	498			553	498		623		553			
1984					547	496			555	499				556	584		
1985					544	491			549	500		544		553			
1986					552	488	376		555	497		525		550	589		
1987					508	508			581	529		614		572			568
1988					553	494	359		566	502		563		563			545
1989			538		513	513			564	509		599		574			560
1990					483	495			556	498		551		560	564	566	551
1991					495	495			561	527		573		559			552
1992			324		554	481	375		546	495		546		546			532
1993					495	495			548	500		554		554	495		525
1994	*																
1995	*																
1996	b																
Mean		523	431	546	494	494	370		558	505		576		557	556	564	556

* No samples were taken due to subdistrict closures.

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

Table 6. Age and length composition of sockeye salmon from the Northern District, Eastern Subdistrict commercial set gillnet fishery, Upper Cook Inlet, Alaska 1979-1996.

Year	Sample Size	Percent Composition by Age Class (%)																Total				
		0.1	0.2	0.3	1.1	1.2	2.1	0.4	1.3	2.2	3.1	1.4	2.3	3.2	2.4	3.3	Other					
1979	1,228					76.40			15.40	7.00						0.60	100					
1980	1,297					45.20			32.80	19.20						2.60	100					
1981	1,848					25.70			61.00	9.60						3.40	100					
1982	922				0.93	17.72		0.08	70.02	5.81						6.24	100					
1983	1,151				0.40	0.70		0.80	12.30	5.20		0.30	1.70				100					
1984	2,282					1.10		33.20	40.50	13.70		0.30	10.80		0.40		100					
1985	1,947				0.30	1.30		35.60	39.80	13.30		0.40	7.80		0.20		100					
1986	585				0.90	1.00		40.30	32.00	15.00			9.40		0.90		100					
1987	849				0.24	0.24		1.53	36.63	0.35			9.42		0.12		100					
1988	520				0.19	0.38		49.42	22.50	20.77			5.96				100					
1989	1,159				0.26	4.23		35.17	41.67	8.02		0.26	5.61				100					
1990	1,304				0.21	0.56		0.75	44.47	14.23		0.09	14.92		0.56		100					
1991	878				0.12	0.57		0.67	28.82	20.93		0.11	13.82		0.11		100					
1992	*																100					
1993	3,014				0.31	0.63		0.50	19.56	18.29		0.37	15.22				100					
1994	923				0.10	0.35		2.85	31.69	15.74		0.45	11.82		0.12		100					
1995	854				0.47	0.71		36.06	29.01	18.91		0.32	13.11		0.15		100					
1996	865				0.06	0.29		0.47	30.41	32.61		0.06	8.87		0.06		100					
Mean					0.22	0.87		0.94	39.98	0.55		0.10	34.59		14.76		0.27	8.31	0.32	0.06	0.34	0.37

Year	Sample Size	Mean Length by Age Class (mm)																Total						
		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																								
1980																								
1981																								
1982																								
1983																								
1984																								
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1988																								
1989																								
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1992																								
1993																								
1994																								
1995																								
1996																								
Mean																								

* No samples obtained from fishery.

Table 7. Age and length composition of sockeye salmon harvested in the Northern District, General Subdistrict commercial set gillnet fishery, Upper Cook Inlet, Alaska, 1979-1996.

Year	Sample Size	Percent Composition by Age Class (%)														Total	
		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	893				48.80			29.70	13.90			4.00				3.60	100
1980	1,134				40.80			41.70	8.70			8.70				0.10	100
1981	1,839				13.60			76.40	3.80			6.20					100
1982	685		0.86		15.00	0.12		74.62	2.90	0.15	0.55	5.99					100
1983	794		0.60		7.90	46.70		28.40	7.00			9.20		0.20			100
1984	1,275		0.10		5.40	21.70		51.00	6.40		0.70	14.30		0.40			100
1985	2,485		0.40	0.10	3.30	20.70	0.10	57.40	6.20		1.00	10.40		0.30			100
1986	1,111		0.10		2.10	12.20	0.10	65.00	5.00		0.60	14.60		0.10			100
1987	256			0.39	2.34	20.31	0.39	40.23	13.67			22.66					100
1988	473				1.06	29.60		45.88	6.77		0.63	16.07					100
1989	1,389		0.14	0.14	0.14	16.05	0.36	66.88	5.54		0.14	10.61					100
1990	954		0.15		1.14	15.19		64.77	6.82		0.33	11.40		0.21			100
1991	1,345		0.12		5.76	7.48		69.03	4.62		0.31	12.41		0.12		0.08	100
1992	1,540		0.47		4.68	8.82	0.29	68.35	3.42		0.47	13.45		0.04			100
1993	3,385		0.18	0.04	5.11	20.27	0.14	44.80	8.80		0.17	20.31		0.10		0.04	100
1994	1,412		0.34		4.70	18.17		51.65	9.53		0.04	15.57					100
1995	983		0.41		4.18	7.74		68.21	4.87		0.10	14.49					100
1996	1,147		0.16		3.10	11.12		54.11	5.01		0.87	25.63					100
Mean		0.26	0.31	3.64	20.79	0.21	0.10	55.45	6.83	0.15	0.44	13.11	0.11	0.18	0.06	1.26	

Year	Sample Size	Mean Length by Age Class (mm)														Total	
		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																	
1980																	
1981																	
1982			337		485			572	474			576					489
1983																	
1984				501	339			566	469			566					
1985																	
1986		484		557	485			565	500			564	533				564
1987			330	582	516			593	533			585					550
1988				563	506			573	516			572					
1989		491		571	513	532		571	509			565					559
1990		408		556	492			553	489			574	555		615		540
1991		468		556	491		600	557	500			556	450		531		549
1992		462		557	492	337		556	492			533			500		547
1993		450	320	545	487	330		547	500			546	540		550		530
1994		464		550	485			552	488			552					533
1995		488		585	509			572	520			568					564
1996		447		577	507			578	511			576					566
Mean		462	379	564	498	390	600	566	500		601	564	508	585	526		545

Table 8. Age and length composition of sockeye salmon harvested in the Kaiglin Island Subdistrict commercial set gillnet fishery, Upper Cook Inlet, Alaska, 1979-1996.

Year	Sample Size	Percent Composition by Age Class (%)														Total	
		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	415					46.60			29.70	24.90			4.40			0.40	100
1980	1,280					19.40			44.80	21.00			14.60			0.20	100
1981	1,186					19.56			52.00	14.30			14.20				100
1982	1,386			0.10		13.36		0.03	56.01	14.70		0.05	15.75				100
1983	740		0.30		0.90	19.66			48.90	16.70		0.20	13.30		0.10		100
1984	713		0.10		0.90	16.70		0.10	39.50	23.90		0.40	17.50		0.90		100
1985	1,934			0.10	0.40	7.80		0.20	41.60	16.40		0.70	32.80				100
1986	264				1.30	12.80			61.60	7.60			16.40		0.10		100
1987	*																
1988	*																
1989	454		0.22	1.76	0.22	22.47		1.32	35.68	19.60		0.22	16.96		1.54		100
1990	*																
1991	*																
1992	*																
1993	*																
1994	*																
1995	*																
1996	*																
Mean		0.21	0.65	0.74	0.74	19.14	0.41		45.53	17.68		0.31	16.21	0.85	0.10		0.30

Year	Sample Size	Mean Length by Age Class (mm)														Total	
		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																	
1980																	
1981						505			564	505			557				
1982						513			555	517			564				
1983					548											624	
1984					594	492	395		557	474		532	572	531			
1985					538	503	366		560	507		594	551				
1986					556	483			543	512			550				
1987	*																
1988	*																
1989	*		535	463	589	511	418		576	530		634	561	519			543
1990	*																
1991	*																
1992	*																
1993	*																
1994	*																
1995	*																
1996	*																
Mean		535	463	565	501	393		559	506	525		587	558	525	624		543

* No samples were taken due to the incidence of mixed samples from the Western Subdistrict fishery.

Table 9. Age and length composition of sockeye salmon escapement in the Kenai River, Upper Cook Inlet, Alaska, 1979-96.

Year	Sample Size	Percent Composition by Age Class (%)													Total	
		0.1	0.2	1.1	1.2	2.1	0.4	1.3	2.2	3.1	1.4	2.3	3.2	2.4		3.3
1979	601				20.20			61.10	11.80					6.20		100
1980	715				27.70			45.10	16.20					10.10		100
1981	1,757				16.20			70.90	8.10					4.80		100
1982	1,787			0.10	5.80			87.50	2.90					3.70		100
1983	1,765			0.30	8.40			75.00	2.20					8.90		100
1984	2,067			0.10	1.10			37.80	13.20					19.50		100
1985	2,201			0.50	15.90			56.40	14.70					11.40		100
1986	789			0.10	1.30			39.50	8.20					18.00		100
1987	745			0.13	12.75			78.39	3.22					0.13		100
1988	1,420			0.28	0.07			74.15	3.10					0.35		100
1989	2,275			0.04	0.13			75.30	4.15					1.03		100
1990	1,513			0.59	0.27			41.43	13.66					0.60		100
1991	2,502			0.02	0.11			31.60	5.65					0.15		100
1992	1,338			0.07	0.07			79.90	5.85					0.22		100
1993	2,088			0.05	0.29			30.51	6.42					2.63		100
1994	1,341			0.30	0.07			61.07	17.75					0.75		100
1995	667			0.28	0.29			26.40	6.60					0.42		100
1996	684			0.42	10.82			75.44	6.14					0.29		100
Mean				0.12	0.25			58.42	8.32					0.82		0.80

Year	Sample Size	Mean Length by Age Class (mm)													Total	
		0.1	0.2	1.1	1.2	2.1	0.4	1.3	2.2	3.1	1.4	2.3	3.2	2.4		3.3
1979								570						584		
1980				486				577						592		
1981				502				583						587		
1982				490				586						564		
1983				522				571						562		
1984				474				560						575		
1985				491				571						593		
1986				489				591						615		
1987				590				583						612		
1988				385				516						584		
1989				350				493						605		
1990				376				476						580		
1991				412				560						589		
1992				533				492						589		
1993				419				557						555		
1994				465				477						570		
1995				423				564						563		
1996				370				572						578		
Mean				447				574						577		

Table 10. Age and length composition of sockeye salmon escapement in Hidden Creek, Kenai River drainage, Upper Cook Inlet, Alaska, 1979-1996.

Year	Sample Size	Percent Composition by Age Class (%)											Total				
		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	*					90.00			4.00	6.00						6.00	100
1980	*					92.00			1.00	1.00							100
1981	*					78.00			15.00	7.00						3.00	100
1982	*					70.00			21.00	4.00							100
1983	*					87.00			11.00	2.00							100
1984			0.10			94.70	0.50		1.40	3.20	0.10						100
1985	362					74.90			13.20	9.70			2.20				100
1986	171					85.20			8.90	5.20			0.70				100
1987	240					93.80			5.60	0.60							100
1988	214					94.00			3.70	1.90			0.40				100
1989	628			0.16		43.47	0.32		40.76	14.49			0.80				100
1990	713					86.40	0.14		1.54	11.78			0.14				100
1991	602					89.54			6.98	3.32			0.17				100
1992	628					81.53			13.38	4.62			0.48				100
1993	169					79.88			8.87	10.65			0.60				100
1994	653					60.17			31.25	6.44			2.14				100
1995	403					63.27	0.25		12.41	20.59			3.22	0.25			100
1996	759					83.13			6.72	8.96			1.19				100
Mean			0.13			80.39	0.30		11.60	6.75			0.10	1.09			0.25

Year	Sample Size	Mean Length by Age Class (mm)											Total				
		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						540				560	550						530
1980						530				560	530						537
1981						520				560	520						509
1982						530				560	530						515
1983						520				570	550						512
1984						521				573	530			484			534
1985						530				570	540						515
1986						526				535	535						523
1987						535				574	565			595			543
1988						548		390		577	542			559			537
1989						507				565	516			605			509
1990						512				557	521			550			515
1991						505				551	513			559			512
1992						529				568	536			620			534
1993						483				557	507			552			515
1994						514	450			559	525			559	540		523
1995						539				587	540			603			543
1996						524	501			563	533			579	540		528
Mean				390		524	501			563	533			579	540		528

* C. Kyle, ADF&G, Soldotna, personal communication.

Table 11. Age and length composition of sockeye salmon escapement in the Kaslof River, Upper Cook Inlet, Alaska, 1979-96.

Year	Sample Size	Percent Composition by Age Class (%)													Total			
		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	590					52.20		37.20		8.40				1.70			0.50	100
1980	899					58.70		27.80		8.00				4.50			1.00	100
1981	1,479					30.20		62.20		6.00				1.60				100
1982	1,518			1.00		34.00		49.50	0.10	10.70			4.70					100
1983	1,997					48.40		34.30		12.80			4.50					100
1984	2,269					50.50		24.80	0.20	17.90			6.60					100
1985	3,063			0.20		57.30		21.80	0.10	17.80		0.10	2.60				0.10	100
1986	1,660		0.10			40.90		42.00	0.10	11.90		0.30	4.60		0.10			100
1987	1,248			0.24		43.35	0.08	27.44	0.08	22.39		6.42	0.08					100
1988	2,282			0.06		33.69	0.11	36.43	0.11	17.51		0.16	11.99		0.05			100
1989	1,216			0.20		44.00		46.30		5.20		0.20	4.20					100
1990	762			0.40		31.90		20.65		33.17		0.26	12.36		0.20			100
1991	2,106		0.04		0.06	31.40		33.40		28.95		0.09	5.79					100
1992	1,717					21.09		27.45		35.31			15.96					100
1993	571			0.35		16.29		29.77		28.02			25.22					100
1994	723					26.42		28.35		28.22			17.01					100
1995	587			0.17		43.95		15.50		25.04			15.33					100
1996	722					24.93		48.20		21.33			5.54					100
Mean		0.07	0.33	0.06	0.06	36.22	0.13	34.26	20.14		0.19	9.03	0.14	0.08				

Year	Sample Size	Mean Length by Age Class (mm)													Total			
		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						467		520		479								
1980						499		562		476								
1981						474		545		475			546					
1982						492		552		483								
1983						479		535		483			530					
1984						473		529		479								
1985						482		546		490								
1986						471		552		476								
1987			347		471	360		552		476			544		471			498
1988			389		478	353		546		482			543		506			507
1989			424		480			546		487			537					512
1990			340		460			521		453			560					479
1991			408		464	322		523		475			567		420			491
1992					506			531		464			530					464
1993					479	385		547		482			533					464
1994			415		479	385		547		482			537					498
1995			355		465			535		470			535					503
1996					487			538		488			541					522
Mean		468	378	489	476	361	541	477	477	477	477	555	536	446	506			502

Table 13. Age and length composition of sockeye salmon escapement in Yenina River, Susitna River drainage, Upper Cook Inlet, Alaska, 1979-95.

Year	Sample Size	Percent Composition by Age Class (%)														Total		
		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																		0
1980																		0
1981																		0
1982																		0
1983	1,024		0.40	4.70	8.40	66.90	0.90	0.50	22.60	1.70		0.20	1.70				100	
1984	2,253		0.20	1.30	1.60	23.70	0.30		59.60	6.50		0.10	6.70				100	
1985																		0
1986	688		1.90		2.10	22.70	0.60		56.60	5.90		0.20	10.00				100	
1987	1,089		1.32	0.90	2.43	23.31			50.64	8.63		1.04	11.73				100	
1988	1,727		2.72	0.41	2.43	33.53	1.74		41.92	6.54		0.23	10.42		0.06		100	
1989	1,362		0.15	1.32	0.22	27.17	0.22		63.51	3.01		0.37	4.03				100	
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		100	
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		100	
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		100	
1993	1,390		1.01	0.07	4.60	32.09	0.36		35.54	11.65			14.53		0.14		100	
1994	637		1.26	0.63	3.92	23.23		0.31	43.17	9.73		0.16	17.58				100	
1995	507		2.17	0.79	5.13	19.72	0.20		51.28	8.48		0.39	11.64	0.20			100	
1996	466		3.22	0.43	3.22	25.54	0.43		43.78	9.44			13.95				100	
Mean			1.45	0.99	3.06	29.57	0.49	0.29	45.31	8.11		0.32	10.74	0.26	0.08			

Year	Sample Size	Mean Length by Age Class (mm)														Total		
		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																		
1980																		
1981																		
1982																		
1983																		
1984																		
1985																		
1986				443	561	460	375		570	496		555	567			574	537	
1987		428	321	570	480				579	487		568	576				543	
1988		456	325	570	471	363			568	481		584	574		603		530	
1989		480	354	555	471	394			563	501		587	560				534	
1990		444	324	555	444				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	
Mean		449	351	562	466	362	602	564	481		572	563	480	570	574		527	

Table 14. Age and length composition of sockeye salmon escapement at Sunshine Station (RMI 80.0) in the mainstem Sustina River, Upper Cook Inlet, Alaska, 1989-96.

Year	Sample Size	Percent Composition by Age Class (%)						
		0.1	0.2	0.3	1.1	1.2	2.1	2.2
1979	830			61.00	20.60	5.30	1.00	12.10
1980	823			50.00	36.20	4.70	5.20	1.90
1981	2,213			8.90	83.00	4.70	4.50	
1982	1,032		2.30	23.50	59.60	3.30	10.80	
1983	994		0.10	63.40	33.70	1.70	0.40	
1984	970		0.80	2.20	29.30	3.30	0.70	
1985	1,592	0.10	1.10	8.10	40.50	3.30	0.70	
1986								
1987								
1988								
1989	1,169	0.43	0.17	28.66	65.95	3.25	0.25	
1990	1,093	0.10	0.20	15.30	49.45	6.95	0.10	
1991	1,664	0.05	0.60	21.07	68.28	3.97	5.98	
1992	996	0.09	0.11	23.22	37.47	25.64	13.16	
1993								
1994								
1995								
1996								
Mean		0.10	0.44	2.08	0.73	38.09	0.51	0.10
Year	Sample Size	0.1	0.2	1.1	0.3	1.2	2.1	2.2
Mean Length by Age Class (mm)								
Year	Sample Size	0.1	0.2	1.1	0.3	1.2	2.1	2.2
1989	383	552	510	574	514	574	577	577
1990	370	469	489	574	497	574	572	572
1991	310	539	485	475	494	552	560	560
1992	490	355	537	476	479	543	546	546
1993								
1994								
1995								
1996								
Mean		508	357	549	490	475	561	496
508								
357								
549								
490								
475								
561								
496								
589								
564								
520								
616								
544								
535								

* Information shown here is sum of data collected at Venma 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 15. Age and length composition of sockeye salmon escapement in Packers Creek, Kalgin Island, Upper Cook Inlet, Alaska, 1979-96.

Year	Sample Size	Percent Composition by Age Class (%)											Total			
		0.1	0.2	1.1	0.3	1.2	2.1	0.4	1.3	2.2	3.1	1.4		2.3	2.4	3.3
1979																
1980*	373		2.70		66.60		0.20		11.30	12.30			12.90			100
1981*	102		3.90		73.50				15.70	2.00			4.90			100
1982*	341		0.30		37.00		16.40		6.70	33.40			6.20			100
1983	804		0.90		24.20		2.70		28.90	40.20			3.10			100
1984	1,245				3.00		5.70		16.00	69.00		0.10	6.30			100
1985	1,475		0.70		2.60		15.70		3.00	60.30			17.40		0.30	100
1986	1,028		1.60		6.30		12.60		3.60	44.90			30.80		0.20	100
1987	1,330				1.73		12.93		3.46	60.53	0.23		19.47		1.13	100
1988	902		0.78		1.55		5.10		6.87	63.64	0.78	0.11	20.18		0.89	100
1989	733		13.92		38.06		9.41		4.37	20.87	0.14		10.09		2.86	100
1990	795		0.43		13.31		1.15		25.23	52.17			7.32		0.14	100
1991	841				33.60		0.34		34.04	6.52		0.03	25.46		0.14	100
1992	492				8.11				55.17	22.92		0.20	13.59			100
1993	370				2.43		9.27		16.49	24.60			56.22			100
1994	901				18.92		2.78		1.78	51.92			24.57		0.01	100
1995	627				8.32		3.26		5.32	35.48	0.22		47.38		0.02	100
1996	425		0.27				1.34		5.14	67.10			25.88		0.27	100
Mean			2.55		20.83		5.99		14.30	39.29	0.34	0.11	19.52		1.08	0.14

Year	Sample Size	Mean Length by Age Class (mm)											Total			
		0.1	0.2	1.1	0.3	1.2	2.1	0.4	1.3	2.2	3.1	1.4		2.3	2.4	3.3
1979																
1980																
1981																
1982																
1983																
1984																
1985																
1986																
1987																
1988																
1989																
1990																
1991																
1992																
1993																
1994																
1995																
1996																
Mean			340		467		366		544	476	419	564	545	508	555	524

* Koenigs et al. (1985)

Table 16. Age and length composition of sockeye salmon escapement in Fish Creek, Upper Cook Inlet, Alaska, 1979-96.

Year	Percent Composition by Age Class (%)									
	0.1	0.2	1.1	1.2	0.3	1.7	2.1	0.4	1.3	2.2
1979	138	15.90	82.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70
1980	211	5.10	65.80	3.80	15.90	8.60	15.90	8.60	15.90	8.60
1981	353	1.30	56.90	37.80	3.60	1.90	37.80	3.60	1.90	3.60
1982	504	7.00	23.90	65.20	1.90	2.00	65.20	1.90	2.00	1.90
1983	1,049	9.50	87.60	0.50	0.80	1.50	0.80	1.50	0.80	1.50
1984	1,338	0.70	84.20	0.70	5.70	7.70	0.80	7.70	0.80	0.80
1985	653	6.60	55.20	0.20	4.00	10.24	0.80	4.00	10.24	0.80
1986	1,306	12.89	54.21	2.94	18.37	10.24	0.17	18.37	10.24	0.17
1987	772	6.61	85.88	2.72	4.79	1.54	0.17	4.79	1.54	0.17
1988	584	13.53	83.05	0.51	1.37	1.54	0.17	1.37	1.54	0.17
1989	493	6.69	62.27	2.84	20.28	5.08	0.23	20.28	5.08	0.23
1990	429	0.70	37.29	0.70	30.77	24.47	0.23	30.77	24.47	0.23
1991	473	6.38	76.83	10.88	4.26	17.89	0.21	4.26	17.89	0.21
1992	464	0.21	75.65	0.43	9.96	17.89	0.21	9.96	17.89	0.21
1993	398	0.75	56.03	0.50	24.37	14.32	0.25	24.37	14.32	0.25
1994	353	5.10	51.28	1.42	15.30	21.25	0.25	15.30	21.25	0.25
1995	395	6.84	50.89	1.01	20.25	10.89	0.25	20.25	10.89	0.25
1996	399	0.50	70.43	0.25	9.27	16.79	0.25	9.27	16.79	0.25
Mean	0.20	5.91	64.45	1.22	17.66	8.86	0.23	17.66	8.86	0.23

Year	Mean Length by Age Class (mm)									
	0.1	0.2	1.1	1.2	0.3	1.7	2.1	0.4	1.3	2.2
1979	400	510	513	489	605	565	539	605	565	539
1980	450	546	546	489	605	565	539	605	565	539
1981	396	513	513	489	605	565	539	605	565	539
1982	450	546	546	489	605	565	539	605	565	539
1983	450	546	546	489	605	565	539	605	565	539
1984	372	497	399	497	552	515	495	552	515	495
1985	381	499	391	499	551	531	495	551	531	495
1986	374	505	400	505	571	542	519	571	542	519
1987	379	510	366	510	554	502	495	554	502	495
1988	350	478	366	478	568	468	461	568	468	461
1989	395	494	414	494	544	489	496	544	489	496
1990	374	505	371	505	543	489	390	543	489	390
1991	352	483	483	483	528	496	481	528	496	481
1992	400	477	405	477	528	477	480	528	477	480
1993	350	496	375	496	532	494	505	532	494	505
1994	351	468	365	468	524	469	472	524	469	472
1995	369	483	395	483	537	487	492	537	487	492
1996	348	471	340	471	550	486	481	550	486	481
Mean	455	378	496	393	549	503	390	549	503	390

Table 17. Age and length composition of chinook salmon harvested in the Central District, Upper Subdistrict commercial set gillnet fisheries, Upper Cook Inlet, Alaska, 1983-1996.

		Percent Composition by Age Class (%)																Total
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	Total	
Kalfionksky																		
1983	308		1.90	13.60	0.30	21.40	0.30				55.60	1.00	3.30	2.60			100	
1984	287		4.20	19.20	1.70	22.30					44.60		6.60	0.30			100	
1985	664		6.10	28.60		20.70	0.40				41.50		3.20				100	
1986	437	0.20	1.80	0.20	23.50	0.20	0.20	35.40			35.40	0.40	2.50	0.20			100	
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																		
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	Total	
1983	107		0.90		6.60		8.40				81.30		2.80				100	
1984	45				8.80		6.70				73.40		11.10				100	
1985	261		7.30		19.20		0.40	12.60			55.60		3.80	1.10			100	
1986	242			0.80	20.30			33.30	1.20		36.60	2.00	5.00	0.80			100	
Mean			2.73	0.80	13.73		0.40	15.25	1.20		61.73	2.00	5.68	0.95				
Cohoe/Ninitchik																		
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	Total	
1983	442	0.20	1.10		18.50		19.90	0.20			59.50		0.40	0.20			100	
1984	462	0.80	4.60	0.60	18.90		22.90				41.60		7.80	0.40	0.20		100	
1985	1,445		6.50		26.80	0.10		19.60	0.10		45.10		1.80	0.10			100	
1986	645	0.20	1.20		23.70		39.60			0.20	31.20	0.40	3.30		0.20		100	
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		
Upper Subdistrict																		
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	Total	
1987	978		2.35		13.19		31.31	0.20			50.41	0.31	1.12		0.10		100	
1988	869		3.22		10.70		14.27	0.35			68.58	0.12	1.84	0.69			100	
1989	854		0.94		15.11		21.08	0.23			53.28		9.37				100	
1990	429		1.16	0.24	29.06	0.94	0.24	29.31	0.46		33.22	0.48	3.26	1.62			100	
1991	446	0.22	0.67		24.90	0.22	0.45	32.06			38.54	0.67	2.02	0.22			100	
1992	688		2.38		14.60		27.49	0.54			50.18	0.87	3.79	0.16			100	
1993	915		2.95		13.01		20.87	0.11			57.92	0.66	4.04	0.44			100	
1994	1,502		3.53		12.28	0.08	14.67	0.25			61.28	0.45	5.81	1.59		0.05	100	
1995	1,508		2.72		22.20	0.09	32.88	0.75			35.06	0.11	5.94	0.20	0.05		100	
1996	2,186		3.25		15.83		34.87	0.15			42.34	1.55	1.49	0.46			100	
Mean		0.22	2.32	0.24	17.09	0.33	0.31	25.98	0.30		49.08	0.58	3.87	0.67	0.08	0.05		

-Continued-

Table 17. (page 2 of 2)

		Mean Length by Age Class (mm)																	
		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		
Kalifornsky		Sample Size																	
Year		400	487	827	643	886	869	647	647	1,020	1,020	852	1,093	1,027	962	1,038	822		
1983					621	936	856	547		1,029	862	1,105	1,084	962			869		
1984					638	1,020	869	647		1,020	852	1,117	1,084	962			784		
1985					658		895			1,022	852	1,093	1,084	962			781		
1986		562	378	798	658	391	917	895		1,022	852	1,093	1,084	962			781		
Mean		562	420	813	640	391	958	877	597	1,028	857	1,100	1,009	1,009			814		
Coho/Nimitchik		Sample Size																	
Year		540	415	779	640	450	1,053	861	640	1,011	861	1,071	1,071	1,020	1,192	1,015	775		
1983					637	450	1,053	840	644	1,041	840	1,114	1,074	1,074	1,192	1,015	882		
1984					637	450	1,053	868	644	1,019	868	1,102	1,074	1,074	1,192	1,015	770		
1985					649			890		1,022	886	1,083	1,083	841			820		
1986		587	382	796	649			890		1,022	886	1,083	1,083	841			820		
Mean		598	412	779	641	450	1,053	865	642	1,042	886	1,093	1,036	1,192	1,015	1,015	812		
Salamatof		Sample Size																	
Year		518	440	796	614	632	881	889	690	1,037	853	1,100	1,029	1,095	1,095	1,095	837		
1983					614		948	804		1,034	804	1,107	1,069	1,069			902		
1984					653		881	881		1,018	881	1,112	1,095	1,095			860		
1985					614		889	889		1,037	853	1,100	1,029	1,029			878		
1986					632		889	889		1,037	853	1,100	1,029	1,029			878		
Mean		479	441	796	628		881	881	690	1,033	853	1,097	1,062	1,062			869		
Upper Subdistrict		Sample Size																	
Year		409	400	400	624	410	887	876	606	1,008	870	1,049	1,020	1,020	1,020	1,020	808		
1987					650	410	887	821	581	933	1,008	1,049	1,020	1,020	1,020	1,020	804		
1988					677	460	890	819	895	986	1,027	1,027	1,027	1,027	1,027	1,027	811		
1989					609	460	890	773	650	979	945	969	986	986	986	986	775		
1990					626	461	890	822	751	976	867	1,054	1,054	1,054	1,054	1,054	785		
1991					614	445	890	788	751	975	819	1,050	1,050	1,050	1,050	1,050	798		
1992					627	419	866	906	615	989	829	1,286	965	965	965	965	830		
1993					662	420	866	866	731	898	844	1,088	1,027	1,027	1,230	1,230	914		
1994					646	410	895	895	665	1,026	918	1,107	1,055	1,055	1,200	1,200	884		
1995					625	410	871	871	661	1,018	857	1,098	1,076	1,076	1,076	1,076	883		
1996					625	410	871	871	661	1,018	857	1,098	1,076	1,076	1,076	1,076	883		
Mean		595	441	720	636	462	934	844	684	985	873	1,068	1,005	1,200	1,200	1,230	831		

Table 18. Age and length composition of chinook salmon harvested in the Central District, Western Subdistrict commercial set gillnet fishery, Upper Cook Inlet, Alaska, 1980-1985.

Year	Sample Size	Percent Composition by Age Class (%)										Total	
		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					100
1983	330 ^a			19.70		38.10		40.70	0.30	0.60	0.60		100
1984	225		0.40	16.90		35.10		43.60		3.10	0.90		100
1985	308	0.70	0.30	16.60	0.30	33.60	0.30	37.10	3.60		7.50		100
Mean		0.70	0.35	18.23	0.30	29.75	0.30	47.38	1.95	1.85	3.00		

Year	Sample Size	Mean Length by Age Class (mm)										Total	
		0.1	1.1	1.2	0.4	1.3	2.2	1.4	2.3	1.5	2.4		
1980		^b											
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 Data not available for 1981 and 1982.

^b Length data not available.

Table 19. Age and length composition of chinook salmon harvested in the Northern District, Eastern Subdistrict commercial set gillnet fishery, Upper Cook Inlet, Alaska, 1986-1991.

Year	Sample Size	Percent Composition by Age Class (%)										Total
		0.2	1.1	1.2	0.4	1.3	2.2	1.4	2.3	1.5	2.4	
1986	206 ^a	1.00		27.70		44.50	2.00	23.30		1.50		100
1987	238 ^b	0.42		19.75	0.42	44.12	2.10	27.73	4.20	0.84	0.42	100
1988	168		0.59	15.48		32.74		50.60			0.59	100
1989	323			32.80		33.70		31.30		2.20		100
1990	347			15.88		39.75	0.28	39.75	2.61	1.17	0.56	100
1991	245			29.04		32.64	2.07	34.99	0.81		0.45	100
Mean		0.71	0.59	23.44	0.42	37.91	1.61	34.61	2.54	1.43	0.51	

Year	Sample Size	Mean Length by Age Class (mm)										Total
		0.2	1.1	1.2	0.4	1.3	2.2	1.4	2.3	1.5	2.4	
1986	^a	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 Data prior to 1986 not available

^b Sampling conducted during 1 June-15 June only

Table 20. Age and length composition of chinook salmon harvested in the Northern District, General Subdistrict commercial set gillnet fishery, Upper Cook Inlet, Alaska, 1983-1991.

Year	Sample Size	Percent Composition by Age Class (%)										Total
		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				100
1984												
1985	40			2.50	27.50		35.00	2.50	30.00		2.50	100
1986	694	0.10	0.70	24.10		44.00	0.70	26.60	1.60	0.60	1.60	100
1987	437 ^a		0.46	19.45		43.71	0.92	34.55	0.46	0.23	0.23	100
1988	309			14.89		27.51		56.31	0.32	0.65	0.32	100
1989	349		0.60	15.20		33.50		50.40		0.30		100
1990	360		1.40	20.82		41.67		34.72		1.40		100
1991	378			28.31		36.24		35.44				100
Mean		0.10	0.79	18.41	27.50	38.30	12.21	34.63	8.10	0.64	1.16	

Year	Sample Size	Mean Length by Age Class										Total
		0.2	1.1	1.2	0.4	1.3	2.2	1.4	2.3	1.5	2.4	
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 21. Age and length composition of coho salmon harvested in the Central District commercial drift gillnet fishery, Upper Cook Inlet, Alaska, 1983-1996.

Year	Sample Size	Percent Compositon by Age Class (%)					Other	Total
		1.1	2.1	3.1	1.2	2.2		
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			0.05	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	0.03	0.11		100
1991	833	9.10	85.54	4.59	0.16	0.60		100
1992	1,333	9.88	84.80	4.15	0.45	0.72		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

Mean 12.51 75.36 11.96 0.16 0.48 0.05

Year	Sample Size	Mean Length by Age Class (mm)					Other	Total
		1.1	2.1	3.1	1.2	2.2		
1983		553	561	573				562
1984		547	566	571				561
1985		546	562	574				561
1986		548	553	565				555
1987		536	554	574				555
1988		533	559	574				555
1989	a							
1990		538	552	567	559	523		548
1991		509	544	559	530	511		552
1992		535	553	568	555	551		542
1993		520	541	564				572
1994		550	574	591				531
1995		527	542	560				543
1996		531	556	572				553

Mean 536 555 570 548 528 553

^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 22. Age and length composition of coho salmon harvested in the Central District, Upper Subdistrict commercial set gillnet fishery, Upper Cook Inlet, Alaska, 1983-1996.

Year	Sample Size	Percent Composition by Age Class (%)						Total
		1.1	2.1	3.1	1.2	2.2	Other	
1983	1,121	14.00	73.80	12.20				100
1984	1,727	7.60	67.30	25.10				100
1985	738	12.40	55.60	31.10			0.90	100
1986								
1987	199	14.57	60.30	25.13				100
1988	409	6.85	79.22	13.94				100
1989	1,423	16.40	66.10	11.50			6.00	100
1990	1,135	18.32	77.54	4.04		0.09		100
1991	1,225	12.24	81.58	5.72	0.16	0.30		100
1992	1,261	14.39	80.37	5.21		0.03		100
1993	1,098	8.73	79.73	11.53				100
1994	1,216	9.38	77.32	13.30				100
1995	1,002	6.87	77.62	15.51				100
1996	817	10.4	78.58	11.02				100
Mean		11.70	73.47	14.25	0.16	0.14	3.45	

Year	Sample Size	Mean Length by Age Class (mm)						Total
		1.1	2.1	3.1	1.2	2.2	Other	
1983		560	593	600				584
1984		565	589	620				591
1985		563	592	605			590	587
1986	^a							
1987		544	578	564				562
1988		544	587	618				583
1989		517	561	590			571	560
1990		533	554	562		487		534
1991		514	548	567	515	536		536
1992		538	557	582		502		545
1993		509	538	556				534
1994		564	599	628				597
1995		538	557	584				560
1996		549	577	595				574
Mean		541	572	590	515	508	581	573

^a Data unavailable for 1986 due to budget reductions.

Table 23. Age and length composition of coho salmon harvested in the Central District, Western Subdistrict commercial set gillnet fishery, Upper Cook Inlet, Alaska, 1983-1996.

Year	Sample Size	Percent Composition by Age Class (%)						Total
		1.1	2.1	3.1	1.2	2.2	Other	
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				
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			
1993	505	13.47	84.75	1.77				100
1994	^a							
1995	^a							
1996	^a							
Mean		23.17	70.65	5.15	0.91	1.87	4.50	

Year	Sample Size	Mean Length by Age Class (mm)						Total
		1.1	2.1	3.1	1.2	2.2	Other	
1983		560	566	577				568
1984		550	562	565				559
1985		566	570	575				570
1986	^a							
1987	^a							
1988		546	578	600				575
1989		518	546	583			562	552
1990		532	548	521	513	537		530
1991	^a							
1992		523	554	567	550			549
1993		506	529	554				530
1994	^a							
1995	^a							
1996	^a							
Mean		538	557	568	532	537	562	554

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

Table 24. Age and length composition of coho salmon harvested in the Northern District, General Subdistrict commercial set gillnet fishery, Upper Cook Inlet, Alaska, 1983-1996.

Year	Sample Size	Percent Composition by Age Class (%)					Other	Total
		1.1	2.1	3.1	1.2	2.2		
1983	450	22.00	74.00	4.00				100
1984	"							
1985	602	23.50	68.90	7.60				100
1986	"							
1987	"							
1988	452	12.61	80.31	6.86		0.22		100
1989	1,040	21.30	69.10	6.10			3.50	100
1990	654	12.40	81.95	4.14	0.45	1.06		100
1991	1,103	16.29	81.93	1.51	0.04	0.23		100
1992	580	12.59	83.97	3.28	0.17			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		0.14		100
Mean		15.95	77.92	5.61	0.22	0.41	3.50	

Year	Sample Size	Mean Length by Age Class (mm)					Other	Total
		1.1	2.1	3.1	1.2	2.2		
1983		525	558	589				557
1984	"							
1985		546	562	574				561
1986	"							
1987	"							
1988		538	558	564		533		548
1989		507	550	576		538		543
1990		538	557	549	520	529		539
1991		516	546	565	565	507		540
1992		529	542	558	559			547
1993		519	531	556				535
1994		554	581	601				579
1995		525	550	575				550
1996		534	554	585		643		579
Mean		530	554	572	548	550		552

" No samples were taken in this area during the indicated years.

Table 25. Age and length composition of chum salmon harvested in the Central District commercial drift gillnet fishery, Upper Cook Inlet, Alaska, 1983-1996.

Year	Sample Size	Percent Composition by Age Class (%)					Other	Total
		0.2	0.3	0.4	1.3	0.5		
1983	4,126	2.10	56.70	41.00		0.20		100
1984	3,372	12.20	77.60	9.50		0.70		100
1985	3,224	6.00	75.00	18.80		0.20		100
1986	578		86.70	13.10		0.20		100
1987	688	5.02	42.80	51.77		0.41		100
1988	1,507	3.72	75.32	19.51	0.07	1.39		100
1989	a							
1990	2,006	3.28	73.09	22.36		1.27		100
1991	926	7.91	76.59	15.44		0.06		100
1992	1,616	0.49	67.22	32.24	0.03		0.01	100
1993	1,139	2.09	65.28	31.46		1.16		100
1994	1,005	4.74	56.85	38.18		0.22		100
1995	1,121	0.47	90.20	8.02		1.31		100
1996	844	0.96	27.69	70.57		0.78		100
Mean		4.08	67.00	28.61	0.05	0.66	0.01	

Year	Sample Size	Mean Length by Age Class (mm)					Other	Total
		0.2	0.3	0.4	1.3	0.5		
1983		548	590	608				582
1984	b							
1985	b							
1986	b							
1987		508	570	594		590		566
1988		525	589	622		556		573
1989								
1990		539	566	601		611		579
1991		521	562	582		599		566
1992		536	559	586	543		583	561
1993		528	548	568		580		556
1994		548	584	602		629		591
1995		582	590	611		592		594
1996		555	604	617		631		602
Mean		539	576	599	543	599	583	577

^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 26. The percent females of sockeye salmon observed in commercial gillnet fisheries and escapements of Upper Cook Inlet, Alaska, 1987-1996.

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	
CENTRAL DISTRICT														
Central Drift														
1987			49	40			53	50		19	53			52
1988			62	36	12		55	45			69	56	45	53
1989*			65	34			58	44		51	57	61	50	70
1990	25		42	24		58	56	30		19	48	100		48
1991			59	29			56	34		3	56		100	55
1992			53	41	33		56	46		58	57	71	65	99
1993	32	100	58	27			54	38		52	53	61	48	51
1994			60	44			63	47		60	59	37	100	56
1995			57	36	100		56	42		35	54		18	53
1996	17													
Mean	25	100	56	35	48	58	56	42		37	56	64	61	85
Cohoe/Nimilciuk Beach														
1987	50		38	39			52	60		54	59			52
1988				45	100		47	47		36	45			46
1989	50	33		35	20		41	39		36	46			41
1990		100	49	41			50	37		14	48		73	45
1991			85	35			52	35		59	51			43
1992		100	50	48	55		53	45		52	52			52
1993			74	43	26		50	48		41	49		47	48
1994			100	46	50		60	51		32	55	33		55
1995			37	43			50	51		39	51	18		48
1996			90	45			48	48		74	42		26	47
Mean	50	78	65	42	50		50	46		43	50	18	45	48

-Continued-

Table 26. (page 2 of 8)

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															
1987			20	41			48	51				49			47
1988				47			50	57		38	39				49
1989				34			44	41		56	48				42
1990			2	26			51	25		43	44	100	80		45
1991			49	42			53	46			52				49
1992			100	37	100		54	46			54		97		52
1993			39	54			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			100	47	100		54	59			58		44	100	54
Mean			51	41	83	100	51	46		51	51	71	60	95	49
Salamatof Beach															
1987	65		61	44			52	45			62				53
1988				48			49	56		57	45				49
1989				37	100		50	45			49				48
1990			67	21			53	46		27	55	43	83	100	50
1991			63	43			55	49		55	58				52
1992			60	39			52	38		68	48				50
1993		100	99	42	70		52	50		52	51		79		51
1994			65	31			61	69		63	54	96			59
1995		71		28			35	36		22	35				34
1996			13	43	100		49	41		33	50				48
Mean	65	86	61	38	90		51	48		47	51	70	81	100	49

-Continued-

Table 26. (page 3 of 8)

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
Western														
1987			33	28		51	41			48	100	100	100	48
1988			100	36		46	35			38				41
1989		100		38		58	14			48			50	55
1990				17		57	15		67	48			50	48
1991				13		48	32		100	50				45
1992		100	100	42	100	45	34			44				43
1993				39		36	41			33				37
1994														
1995														
1996														
Mean	100	78	30	30	100	49	30	84	44	100	75	100	45	
NORTHERN DISTRICT														
Eastern Subdistrict														
1987		100	66	56	100	48	56			37				52
1988			100	61	50	45	59			52				57
1989		66	50	54	100	53	56	66		60			50	55
1990		100	48	41	26	52	44			56				49
1991			17	53		61	49	100		59				54
1992														
1993		50	61	54	81	63	61	23		49				57
1994		66	48	47	71	56	45			50				50
1995			12	47		43	48	27		48				45
1996		21	100	61	40	58	66			61				62
Mean	72	69	56	53	67	53	54	54	52	81	50	53		

-Continued-

Table 26. (page 4 of 8)

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	
General Subdistrict														
1987			33	44		52	37			47				46
1988			40	41		50	41			51				47
1989		50	50	33	40	41	27		50	48				40
1990			69	47		70	49		63	76		71		66
1991			53	28		50	34		6	50	100		100	48
1992	46		61	44		59	35		33	59		100		56
1993		100	66	43	100	52	49		75	57	100		100	52
1994	21		45	36		51	44		50	45				46
1995	50		46	42		53	46		50	50				51
1996	50		55	43		57	52		28	52				54
Mean	42	75	52	40	70	54	41		44	54	100	100	86	51
COMMERCIAL HARVEST TOTAL														
1987		28	48	41	18	52	52		27	54	48		100	51
1988			61	41	36	53	48		52	51			22	51
1989														
1990			65	33	3	57	41		43	55	59		65	53
1991			46	33		55	36		26	50	78			47
1992	4	15	61	35	39	55	39		18	55			70	53
1993	20	95	58	44	49	55	47		55	55	44		57	53
1994		66	57	46	46	56	48		53	54	81		44	53
1995	25	13	53	41		56	47		48	54	37		72	51
1996	20	8	51	40	83	54	47		37	52	2		22	51
Mean	17	38	56	39	39	78	45		40	53	50		57	74

-Continued-

Table 26. (page 5 of 8)

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	
CENTRAL DISTRICT														
Kenai River														
1987				59		100	69	54			62			66
1988		25		52			59	55		40	64			58
1989	100		100	45	45		51	49		61	49			51
1990		24		42	24		46	53		15	41	62		45
1991			57	48	39	75	56	54		29	50			51
1992				67	100		66	59		70	66			66
1993		67	67	52	59		61	57		58	58	100		58
1994		25	100	48	36		55	72	100	30	55	50	75	57
1995		50	67	49	59		57	51		100	49			52
1996			50	36	20		53	57	100	50	51	100	50	51
Mean	100	38	76	50	48	88	57	56	100	50	55	71	75	56
Kasilof River														
1987		38		47			44	50			54	100		47
1988				57	71		56	55			51			56
1989				54			53	44		100	51			53
1990				42			56	53		100	51	100		50
1991			100	48			44	51			52			48
1992				51	25		50	61			52			54
1993		100		57	50		41	64			54			53
1994				50			50	53			60			53
1995				55			54	59			53			55
1996				47			39	55			48			45
Mean		69	100	51	49	49	55	55	100	100	53	100	75	51

-Continued-

Table 26. (page 6 of 8)

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
Crescent River														
1987				40		41	37				43			41
1988				53		46	50		75	34				44
1989			50	29		39	30		50	30			100	35
1990			50	32		42	30			39				38
1991				60		43	58			52			100	51
1992				32		53	41			52			100	50
1993				25	50	54	19		50	49			100	46
1994				32		60	22		67	54			100	50
1995				32		50	31			52			100	44
1996														
Mean			50	37	50	48	35		61	45			100	44
Packers Creek														
1987				83		63	59		34		55	40	40	50
1988				42	4	66	59				68	65		57
1989			3	59	4	59	58		100		69	81		47
1990				41	50	52	53				47			50
1991				31		49	43		100		53			44
1992				20		65	38			72				55
1993				11	100	62	23			55				47
1994				28	25	76	46			63			100	47
1995				13	40	13	47			66				53
1996		100			80	79	50			78			100	59
Mean		52		36	43	58	48		67	63		62	70	88

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Table 26. (page 7 of 8)

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															
1987	22	19	41	59			43	68		67	38				48
1988	5	12	45	30	19		47	42		11	45				40
1989		28	100	33			55	46		20	64				48
1990	15		47	46	100		57	52		40	58	78	100		53
1991	12		63	34		100	54	47		100	53				48
1992	12	30	76	23			56	20			49	34	100		37
1993	14		47	37	60		54	43			63		100		48
1994	25	50	44	28		50	52	52			50				45
1995	9		54	42			52	47			58	100			49
1996	27		60	34	50		48	52			52				45
Mean	16	28	58	37	57	75	52	47		48	53	71	100		46
Fish Creek															
1987		10		65			71	59							61
1988		1		41			62	44							36
1989	100	15		51	29		74	56			100				54
1990				59			69	69			80				65
1991		4		63			70	78			71				61
1992				53	100		24	53			67	100			52
1993		33		67			67	51			75				65
1994		17		47	60		57	55			80				51
1995		44		67	50		59	72			71	100			65
1996				47			49	63		100	44	100			50
Mean	100	18		56	60		60	60		100	74	100			56

-Continued-

Table 26. (page 8 of 8)

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
<i>ESCAPEMENT TOTAL</i>															
1987		13	17	57		100	66	53	34	16	54	60	7	50	62
1988	5	7	29	50	7		59	55		37	62	65		100	56
1989 ^c															
1990			62	44	27		49	54		27	43	69	10		47
1991		3	60	48	34	78	52	50		26	50				50
1992	8	30	76	50	84		64	55		68	60	27	100	100	61
1993	11	61	52	53	58		58	54		58	58		100		57
1994	25	50	44	28		50	52	52			50				45
1995	9	39	58	52	56		56	54		83	52	100			53
1996	27	17	56	41	27		50	54	100	53	55	100	52	100	50
Mean	14	28	50	47	42	76	56	53	67	46	54	70	54	88	53
<i>UPPER COOK INLET TOTAL</i>															
1987	41	14	46	46	3	100	55	52	34	24	54	59	11	50	53
1988	1	7	57	43	19		54	49		50	52	65	21	100	52
1989 ^c															
1990	23	20	64	37	23		55	46		39	53	62	56	52	51
1991	14	3	52	41	30	62	54	41		26	50	19		62	48
1992	6	19	61	40	60		56	43		28	56	27	71	52	54
1993	15	62	57	48	57		56	49		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		54	53	50	37	55	52
1996	24	15	53	41	39		53	49	100	41	53	67	32	100	51
Mean	18	22	56	43	36	79	55	48	66	40	53	49	42	69	52

^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 No samples taken.

^c No summary available, only by individual fishery or escapement.

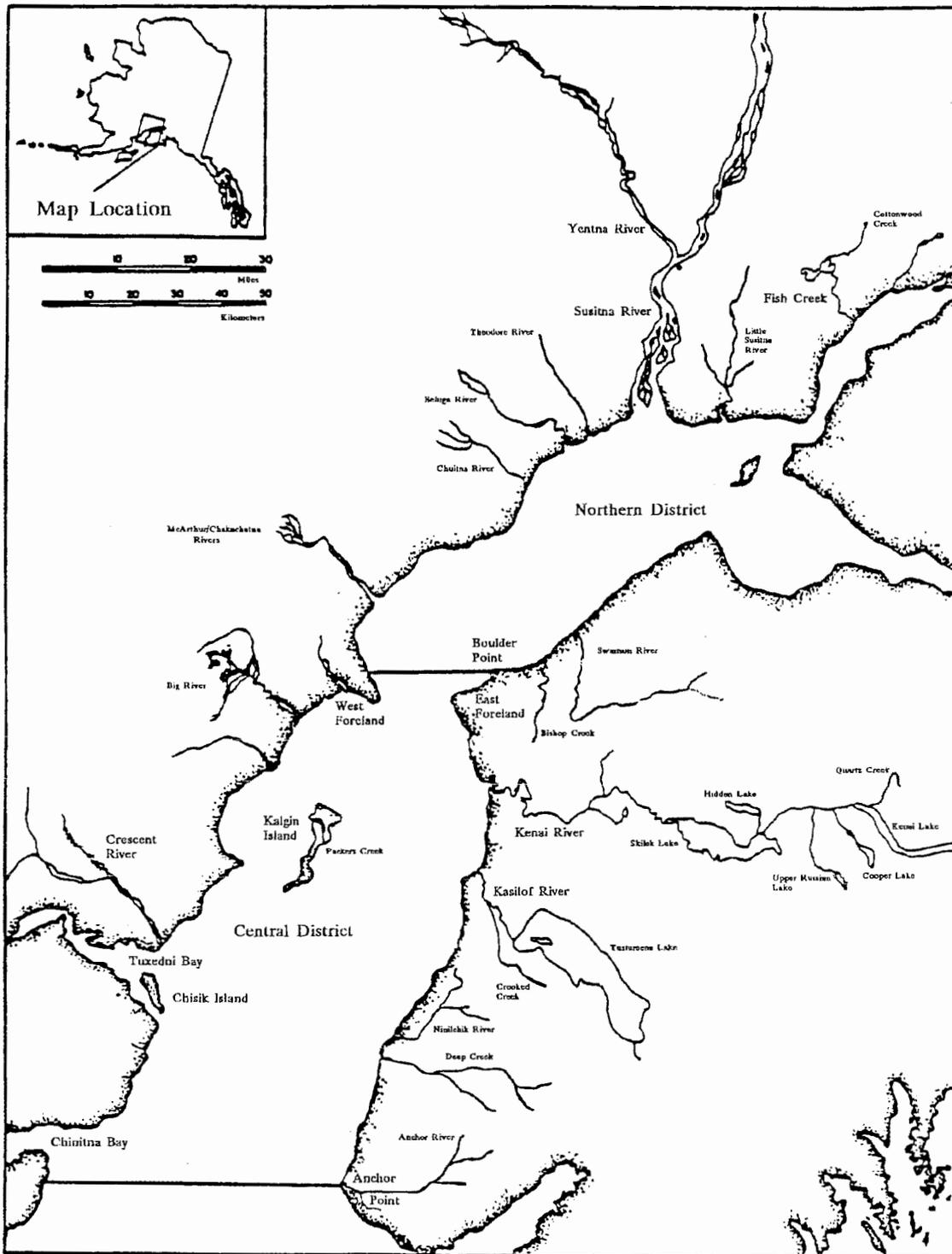


Figure 1. Map of Upper Cook Inlet showing locations of the Northern and Central Districts and the primary salmon spawning drainages.

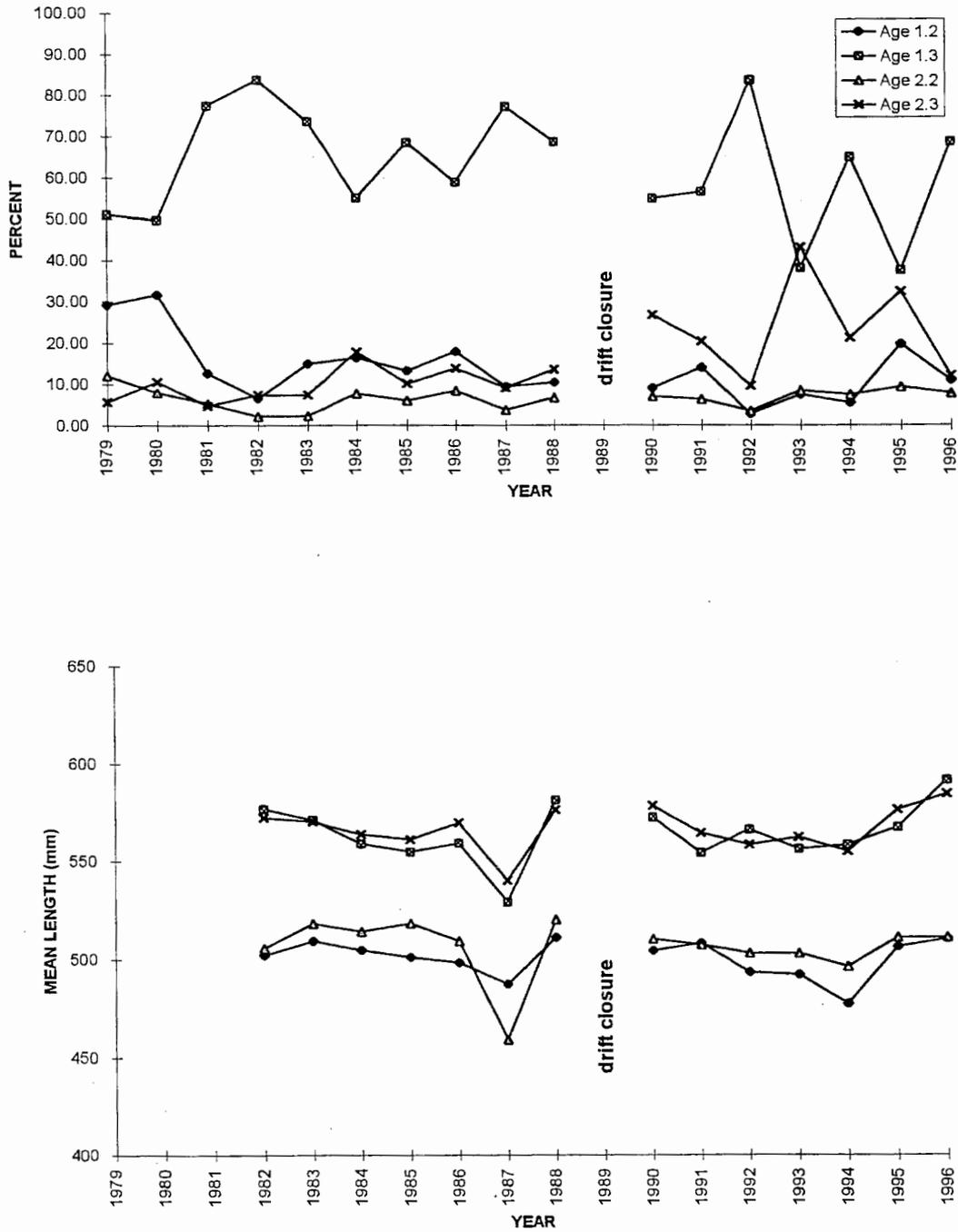


Figure 2. Age and length composition of sockeye salmon harvested in the Central District commercial drift gillnet fishery, Upper Cook Inlet, Alaska, 1979-1996.

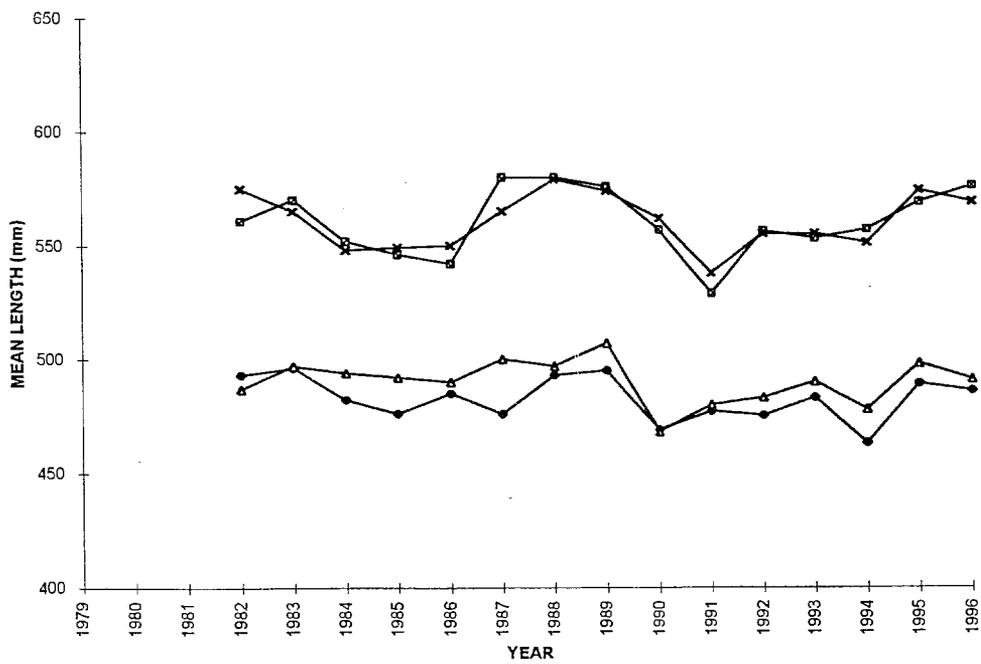
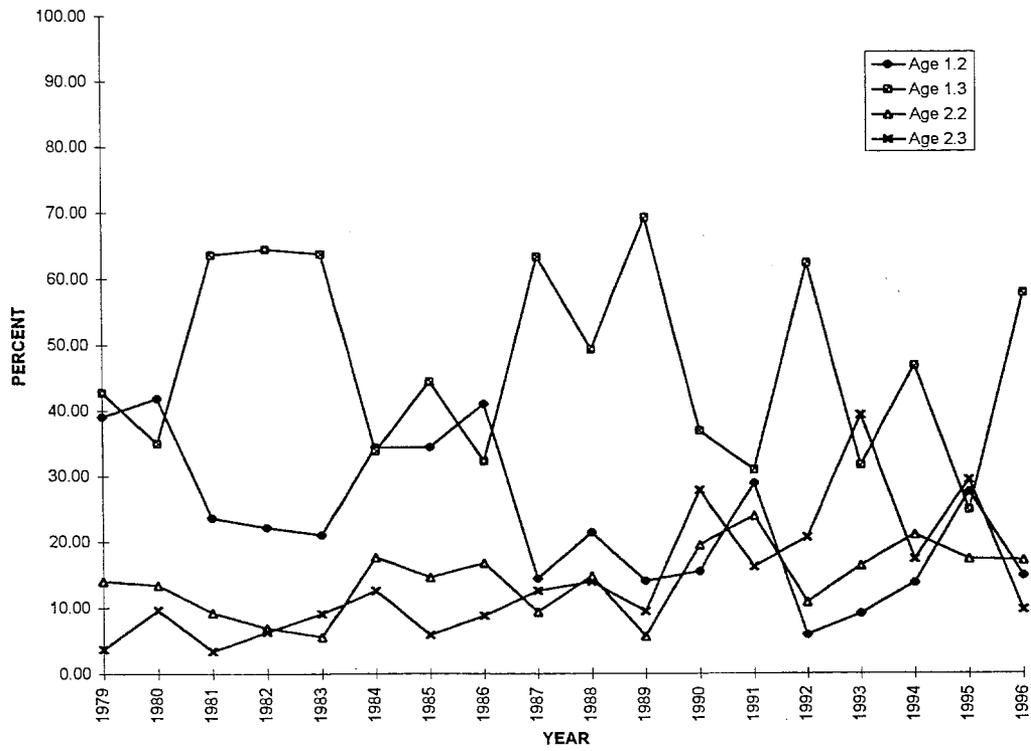


Figure 3. Age and length composition of sockeye salmon harvested in the Coho/Ninilchik Beach commercial set gillnet fishery, Upper Cook Inlet, Alaska, 1979-1996.

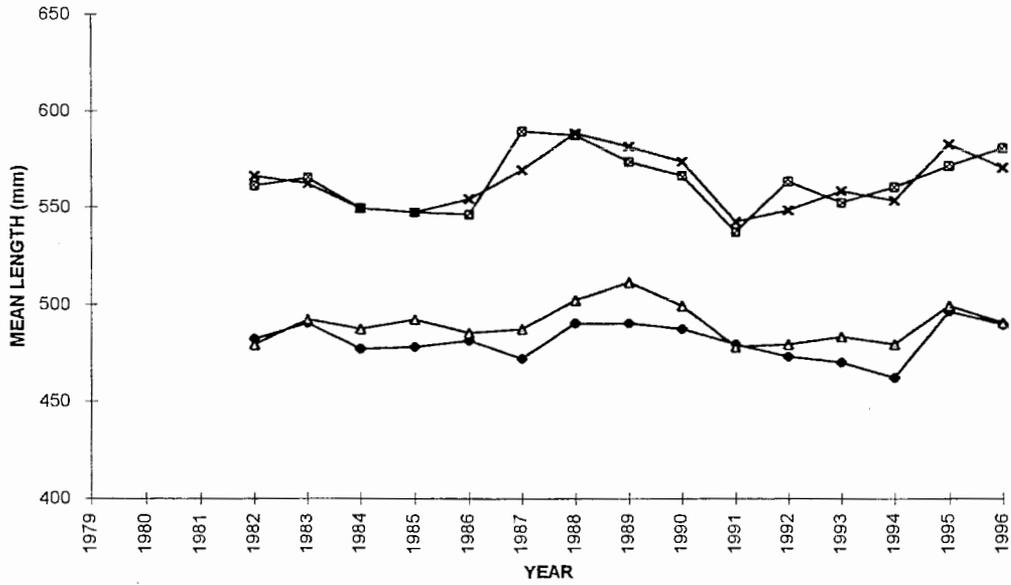
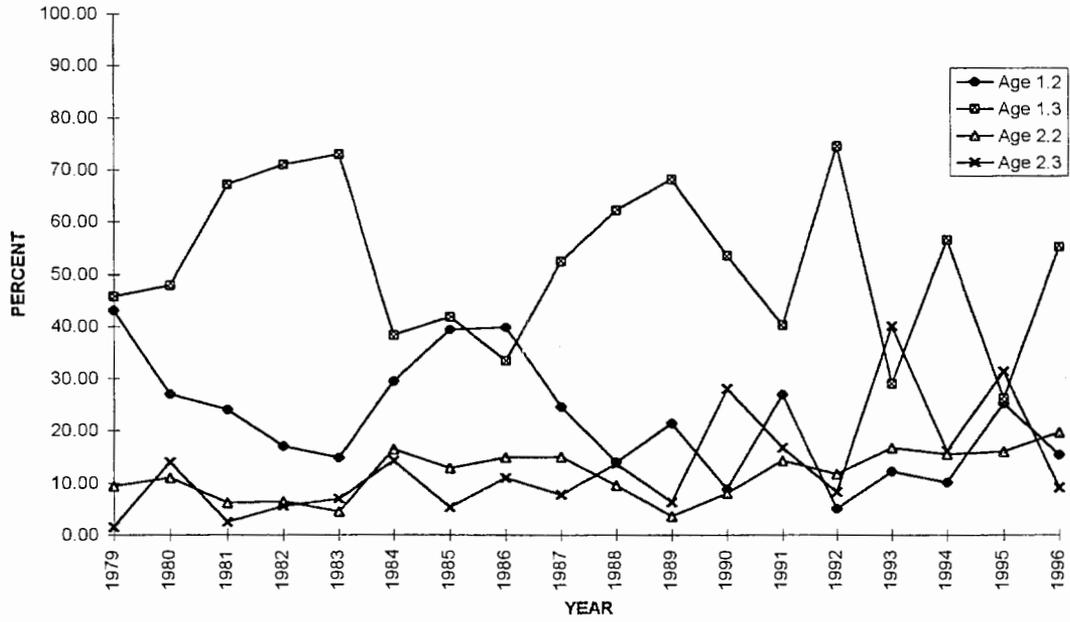


Figure 4. Age and length composition of sockeye salmon harvested in the Kalifonsky Beach commercial set gillnet fishery, Upper Cook Inlet, Alaska, 1979-1996.

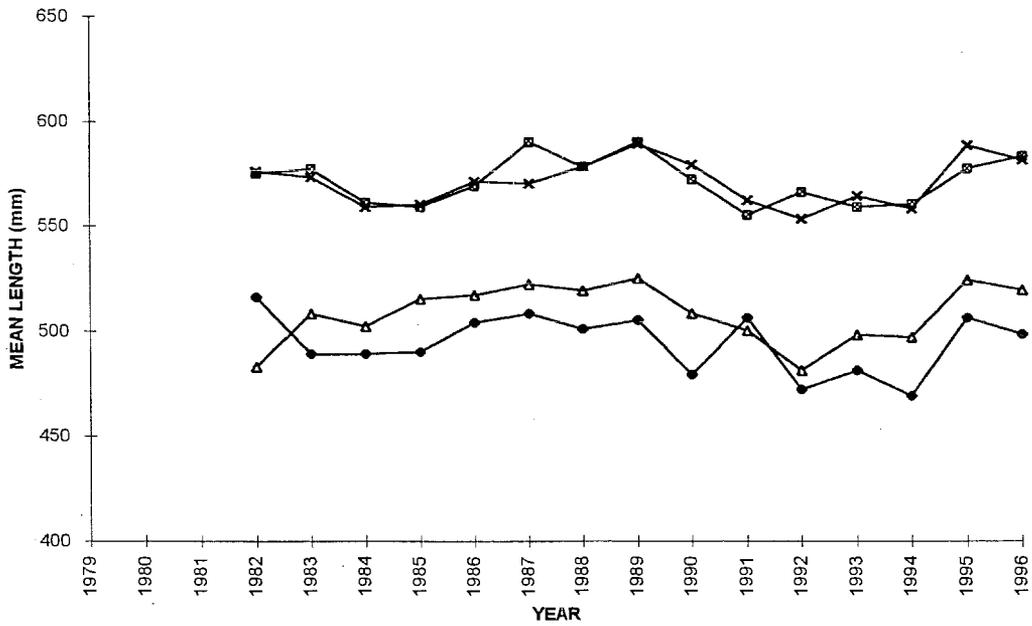
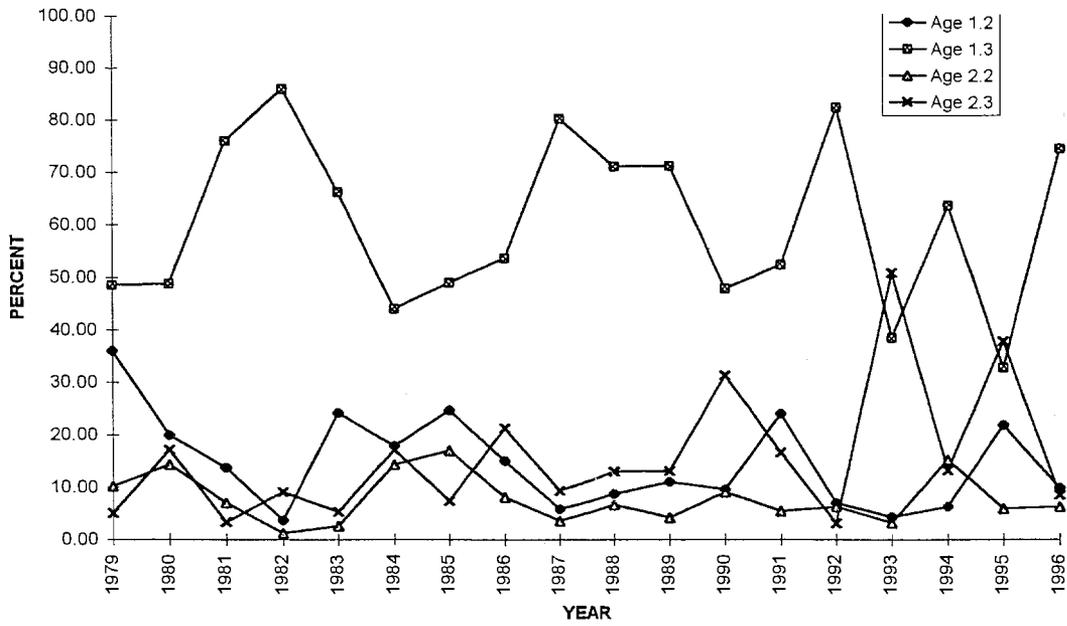


Figure 5. Age and length composition of sockeye salmon harvested in the Salamatof Beach commercial set gillnet fishery, Upper Cook Inlet, Alaska, 1979-1996.

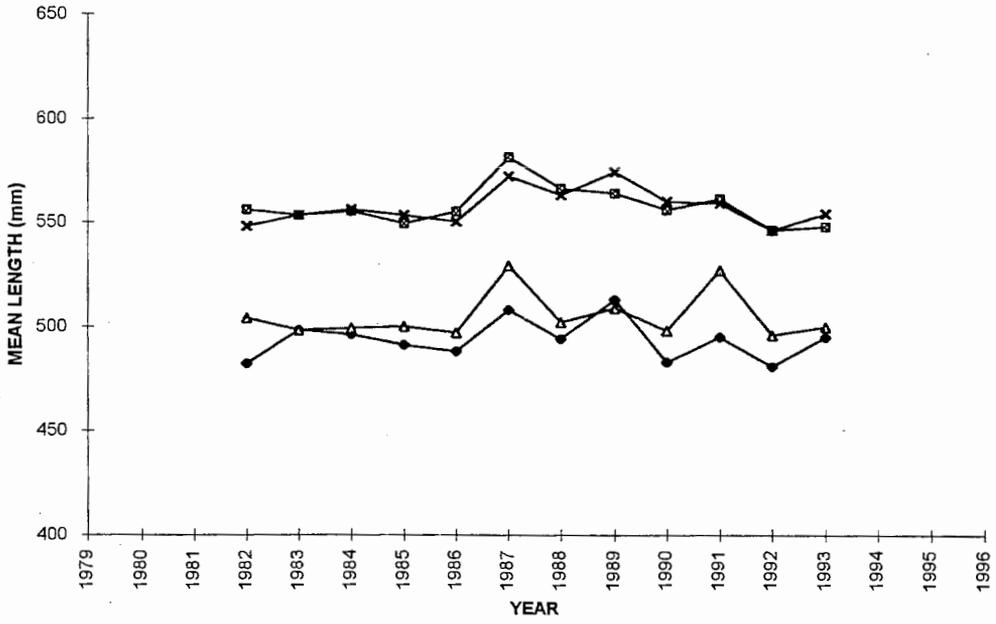
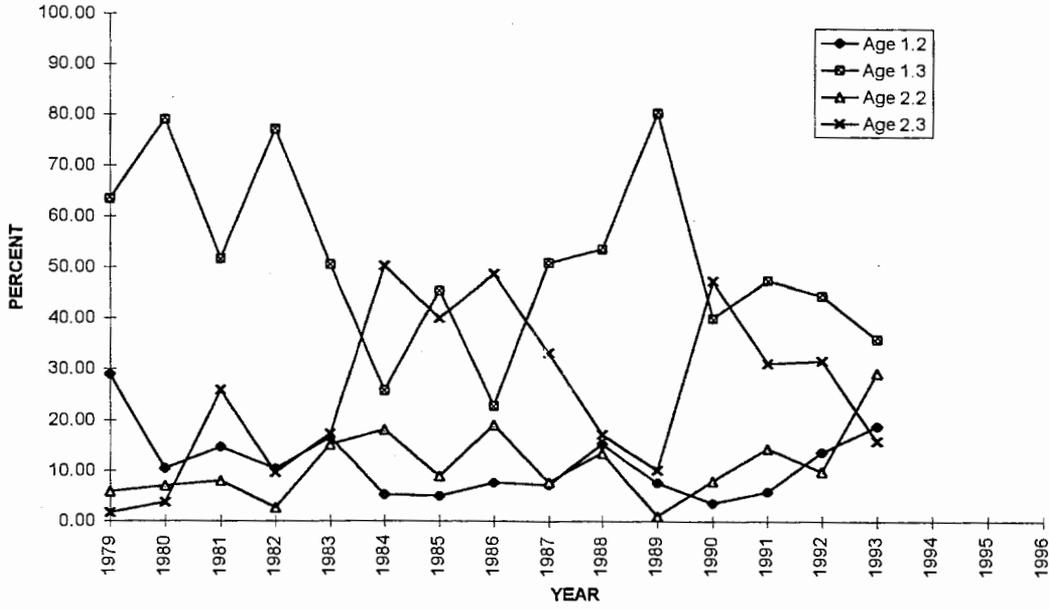


Figure 6. Age and length composition of sockeye salmon harvested in the Central District, Western Subdistrict commercial set gillnet fishery, Upper Cook Inlet, Alaska, 1979-1996.

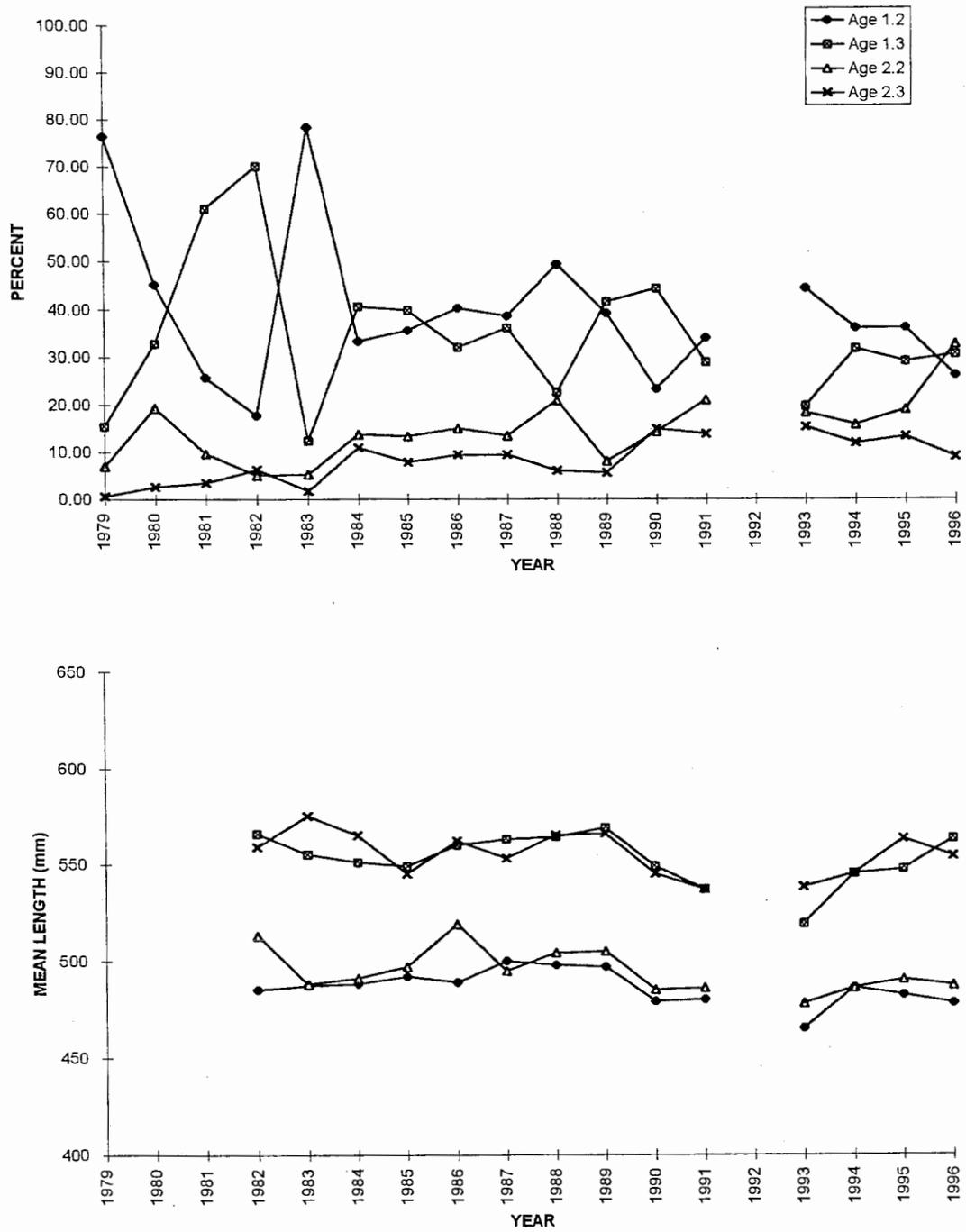


Figure 7. Age and length composition of sockeye salmon harvested in the Northern District, Eastern Subdistrict commercial set gillnet fishery, Upper Cook Inlet, Alaska, 1979-1996.

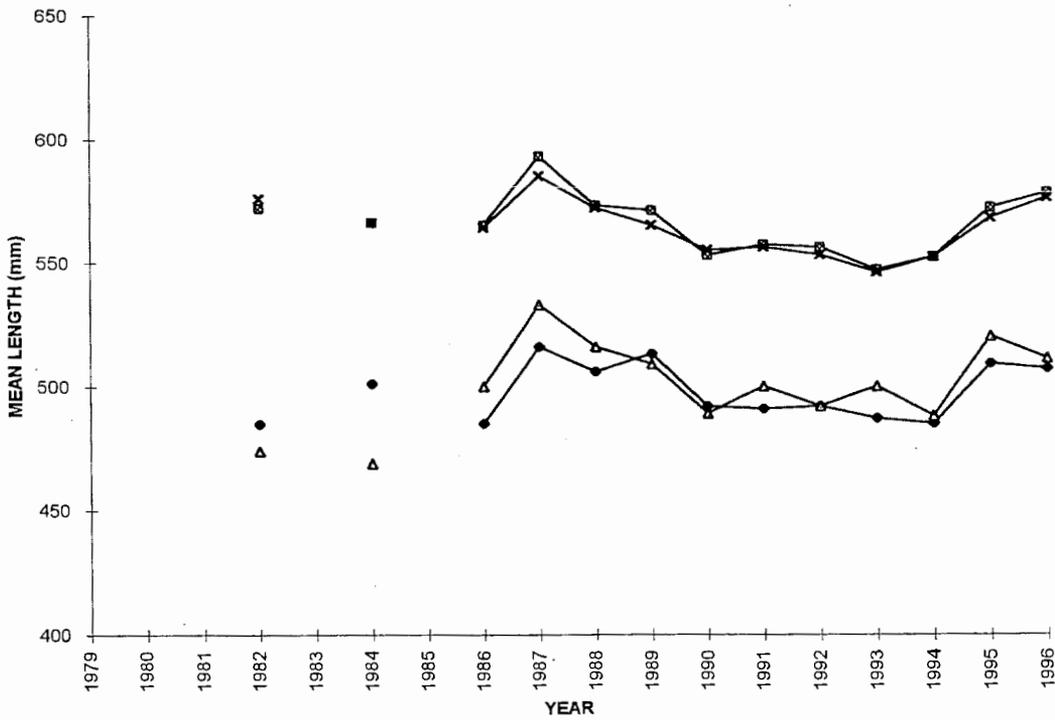
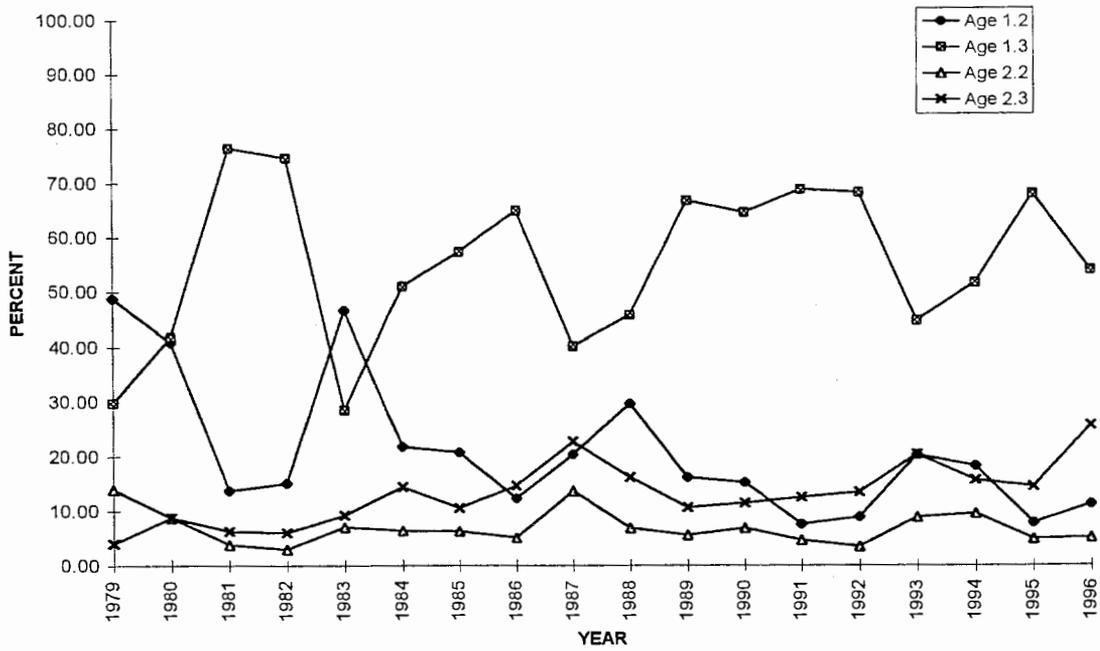


Figure 8. Age and length composition of sockeye salmon harvested in the Northern District, General Subdistrict commercial set gillnet fishery, Upper Cook Inlet, Alaska, 1979-1996.

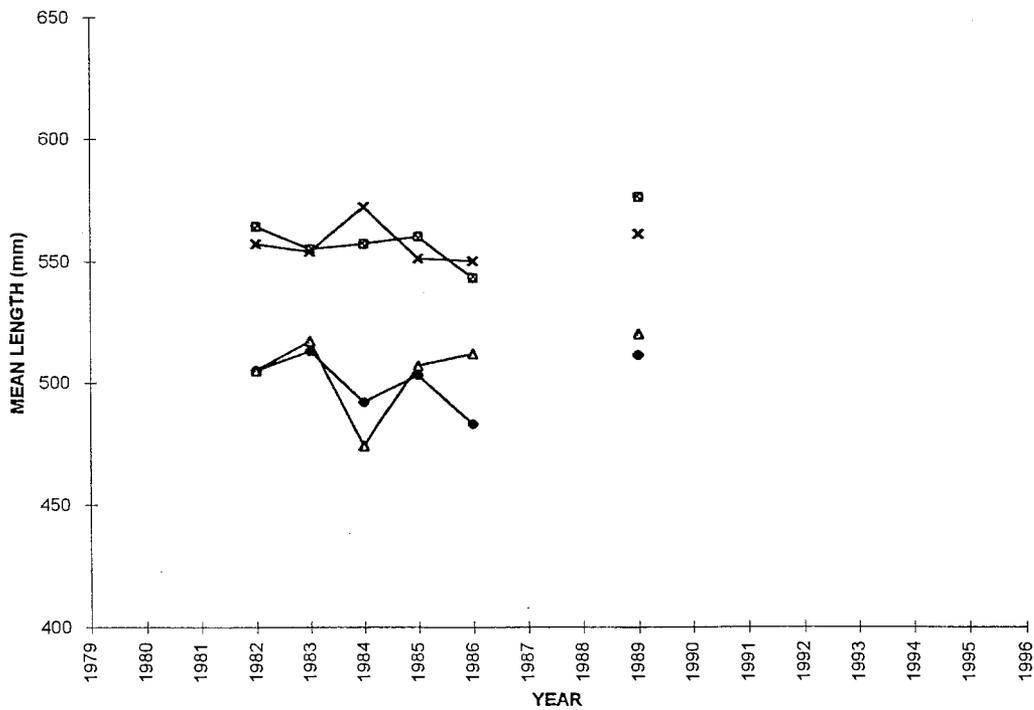
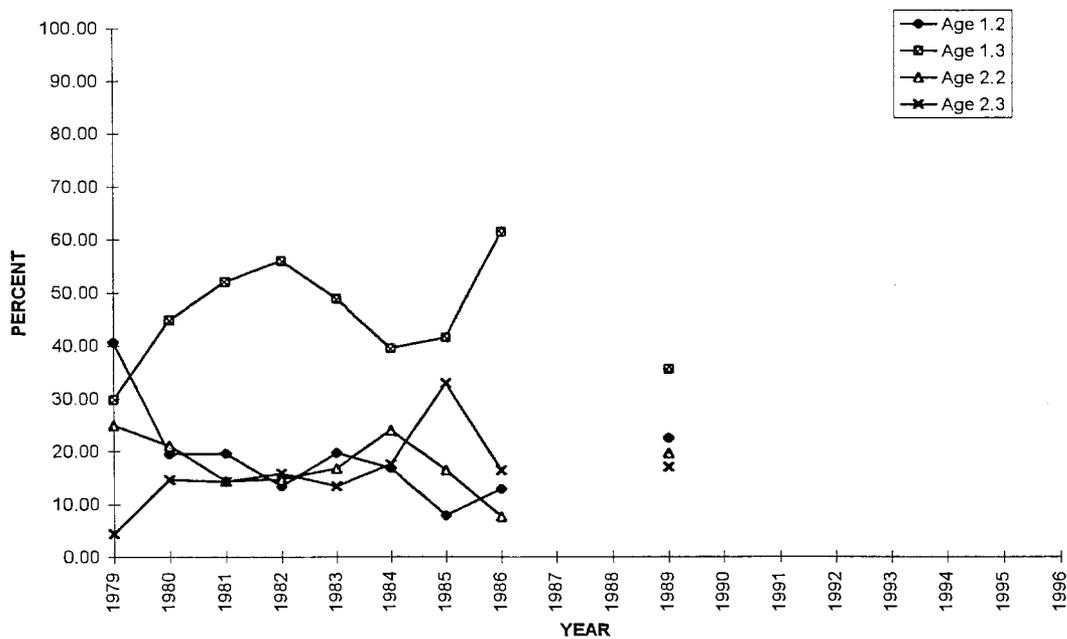


Figure 9. Age and length composition of sockeye salmon harvested in the Kalgin Island Subdistrict commercial set gillnet fishery, Upper Cook Inlet, Alaska, 1979-1996.

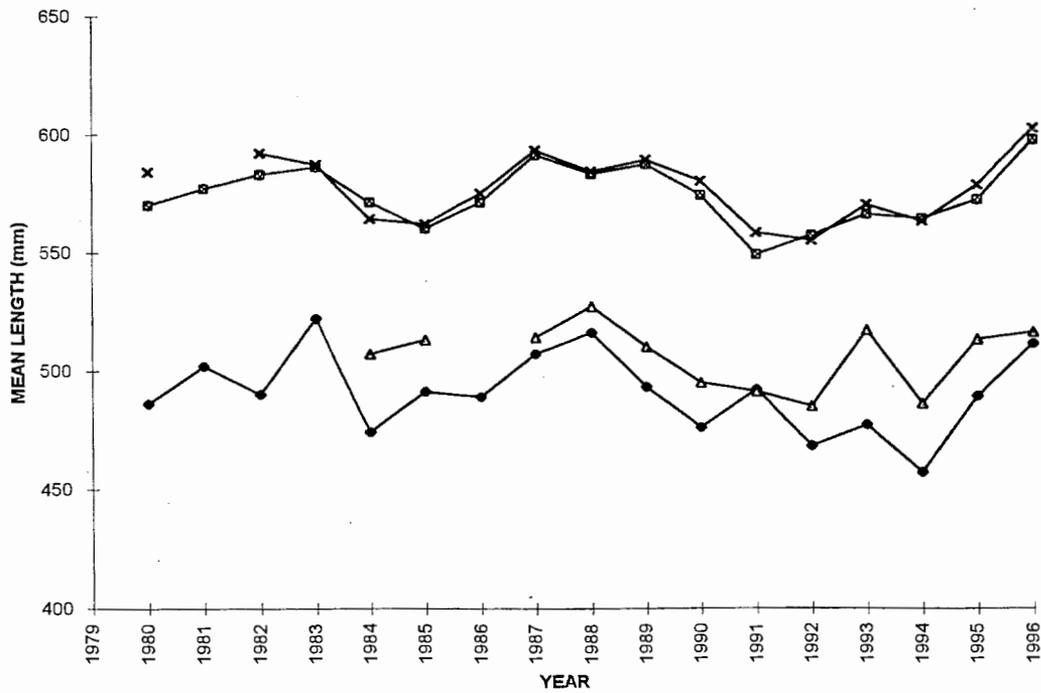
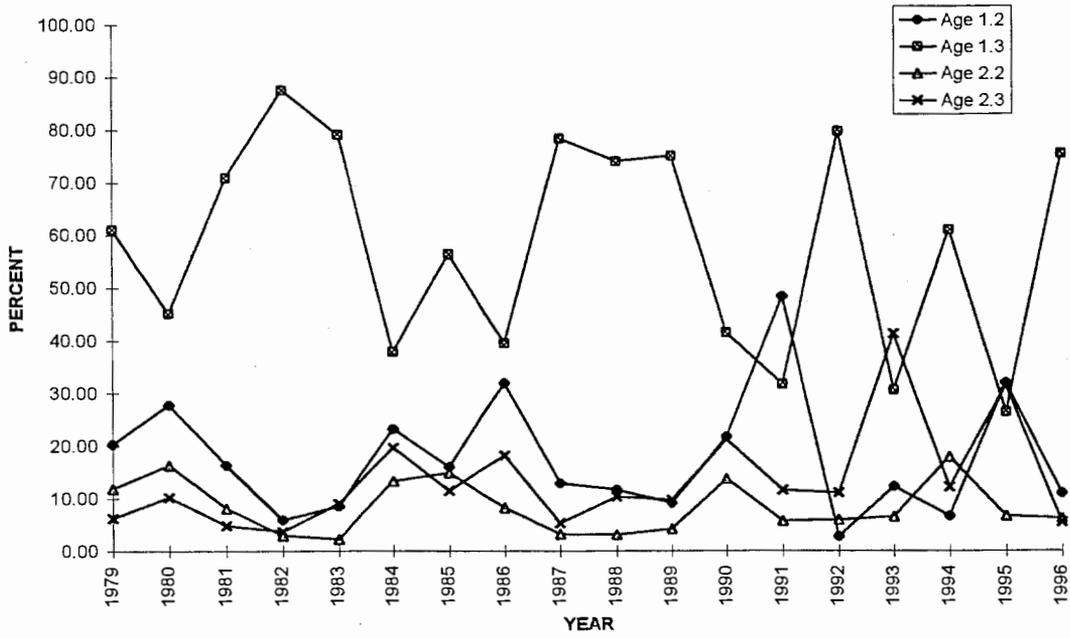


Figure 10. Age and length composition of sockeye salmon escapement in the Kenai River, Upper Cook Inlet, Alaska, 1979-96.

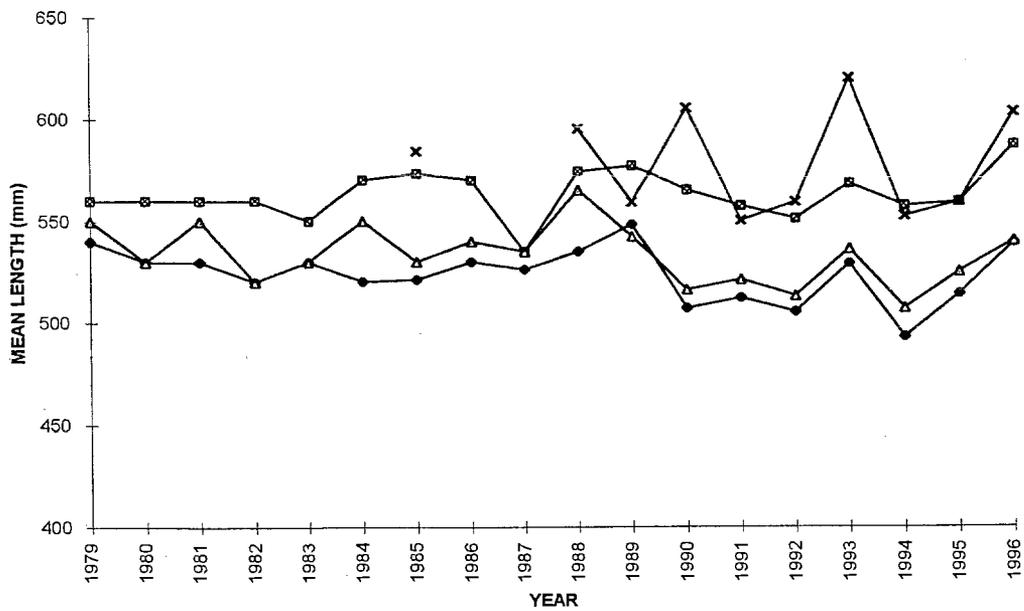
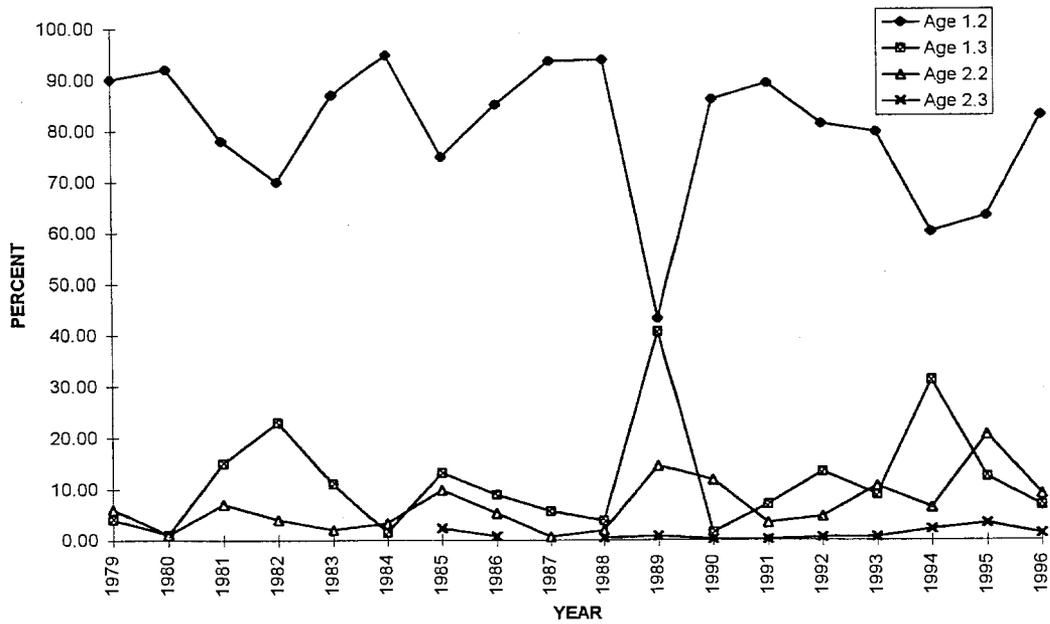


Figure 11. Age and length composition of sockeye salmon escapement in Hidden Creek, Kenai River drainage, Upper Cook Inlet, Alaska, 1979-1996.

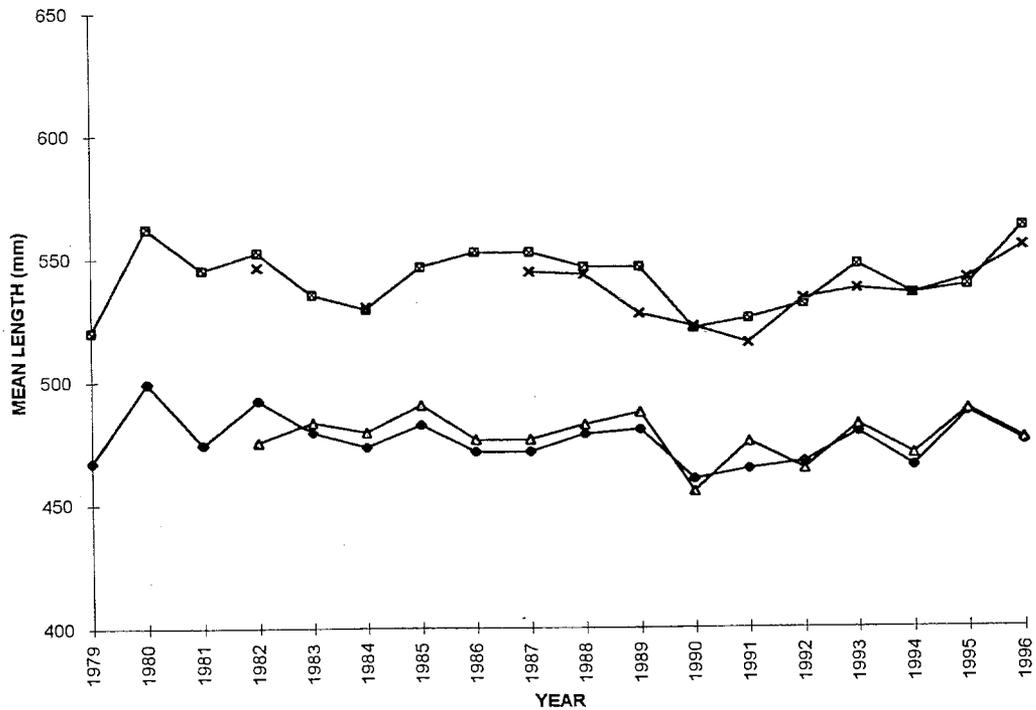
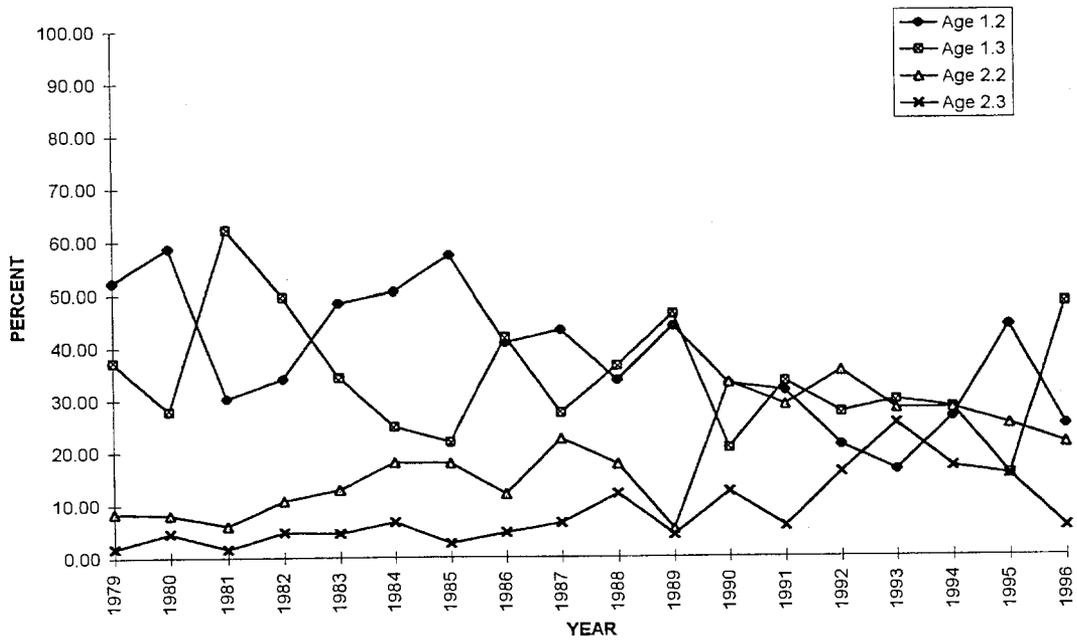


Figure 12. Age and length composition of sockeye salmon escapement in the Kasilof River, Upper Cook Inlet, Alaska, 1979-96.

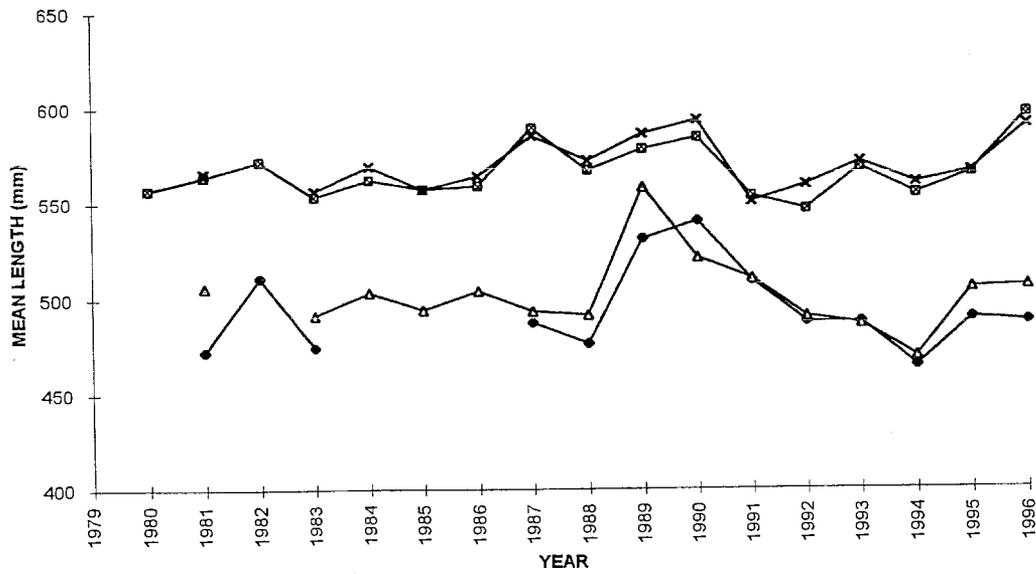
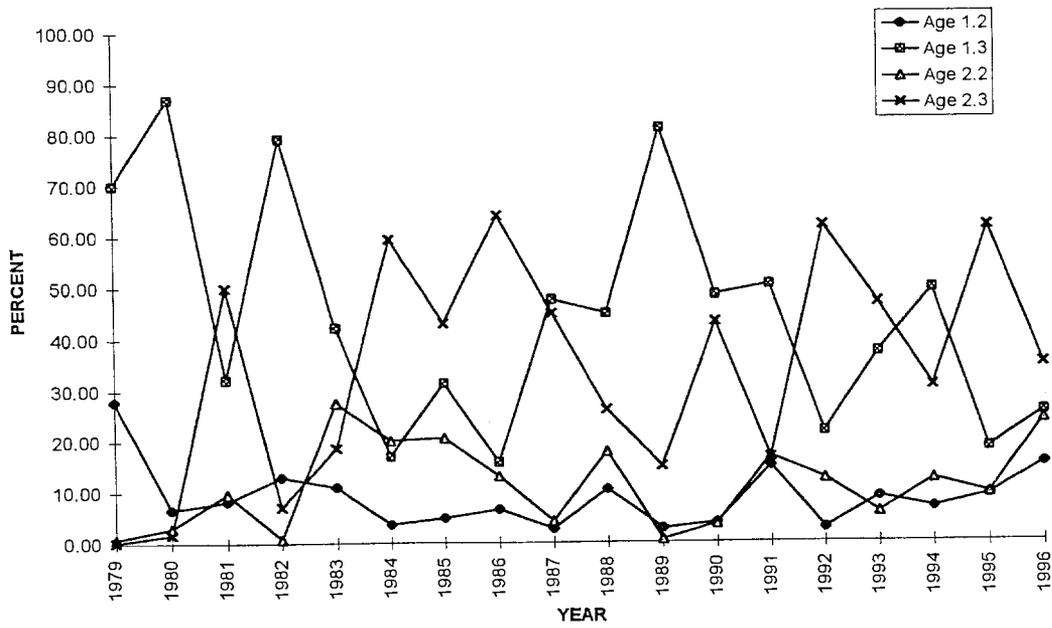


Figure 13. Age and length composition of sockeye salmon escapement in Crescent River, Upper Cook Inlet, Alaska, 1979-96.

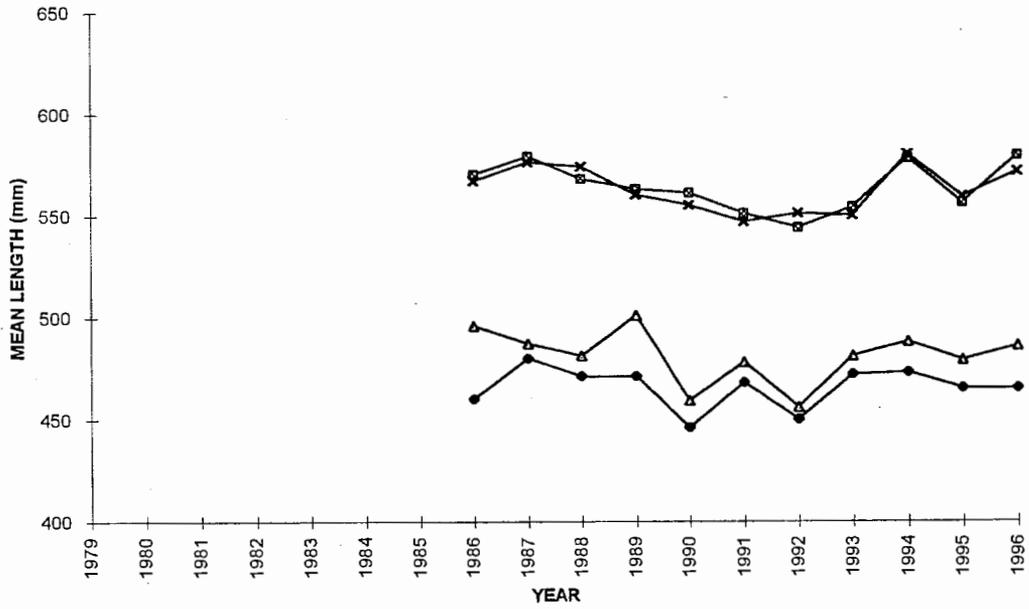
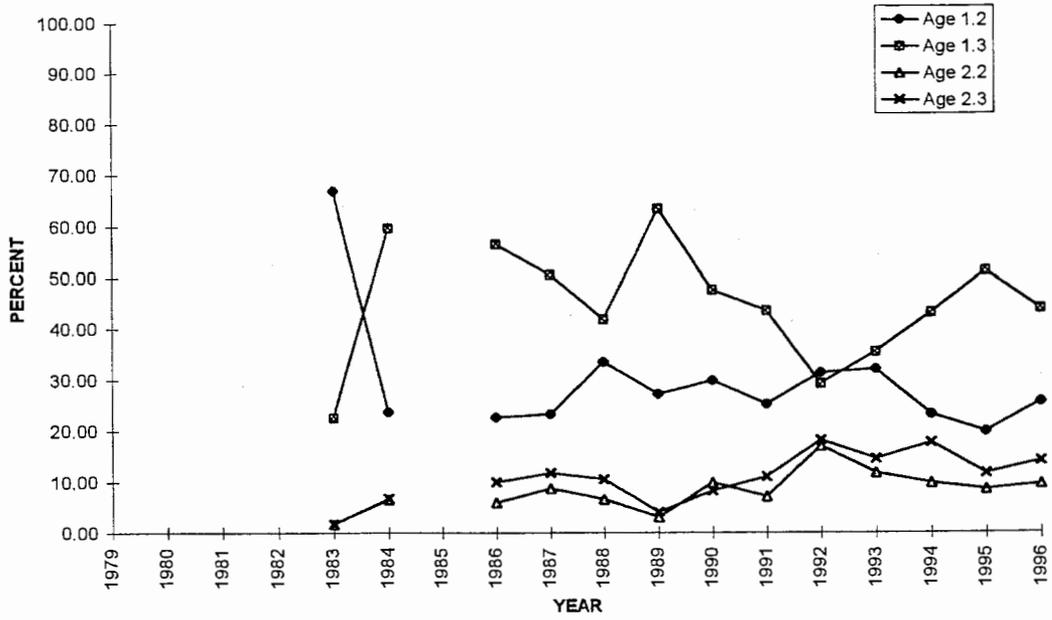


Figure 14. Age and length composition of sockeye salmon escapement in Yentna River, Susitna River drainage, Upper Cook Inlet, Alaska, 1979-95.

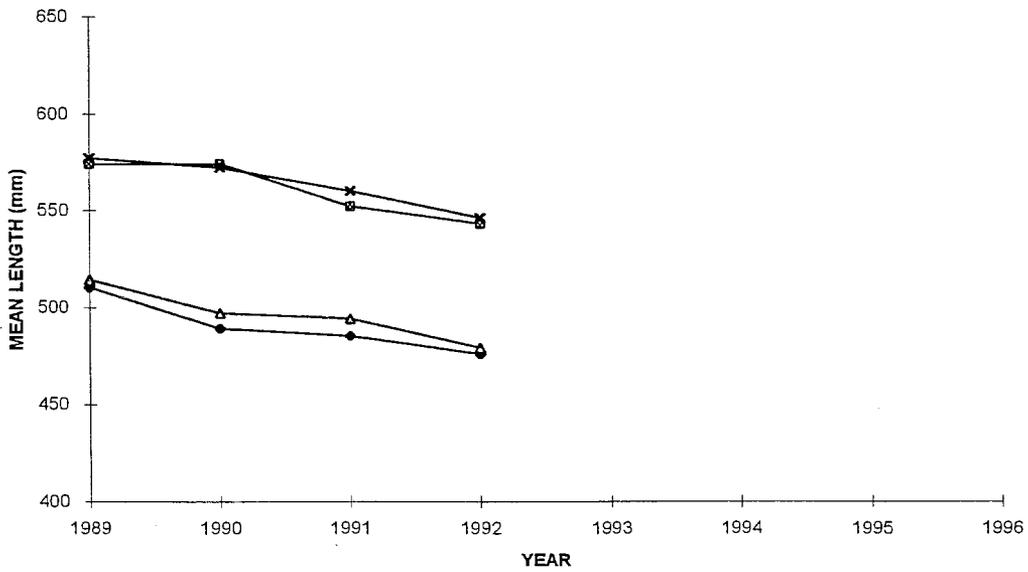
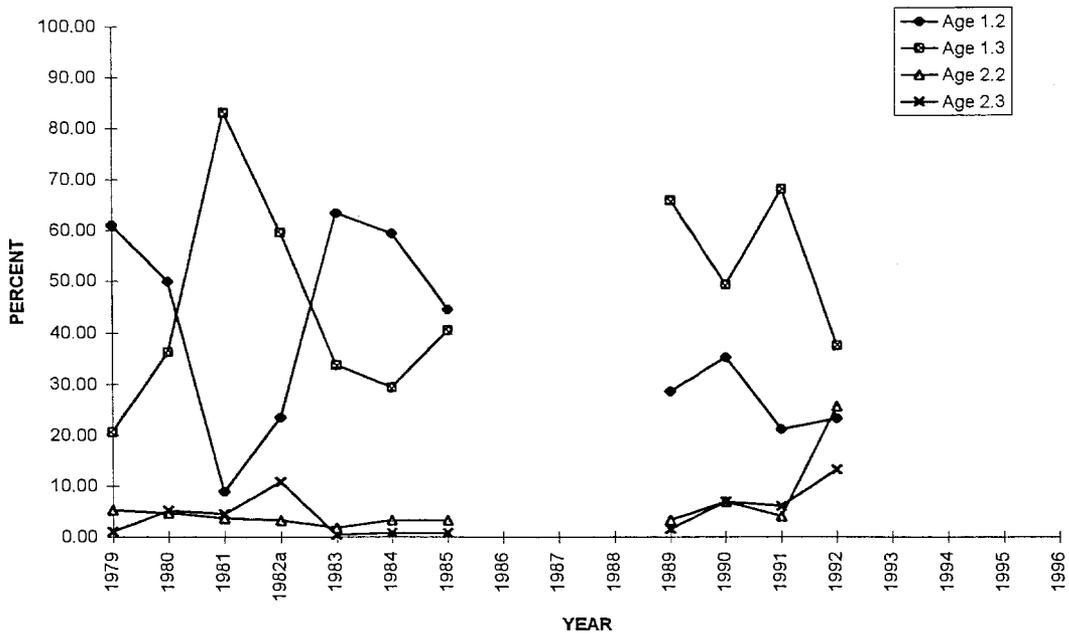


Figure 15. Age and length composition of sockeye salmon escapement at Sunshine Station (RM 80.0) in the mainstem Susitna River, Upper Cook Inlet, Alaska, 1979-96.

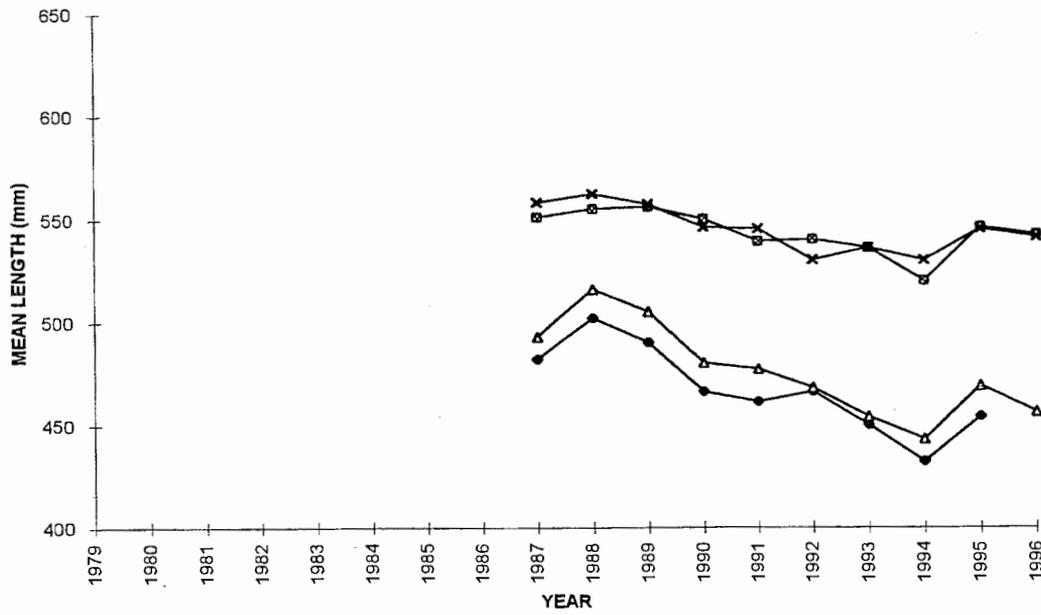
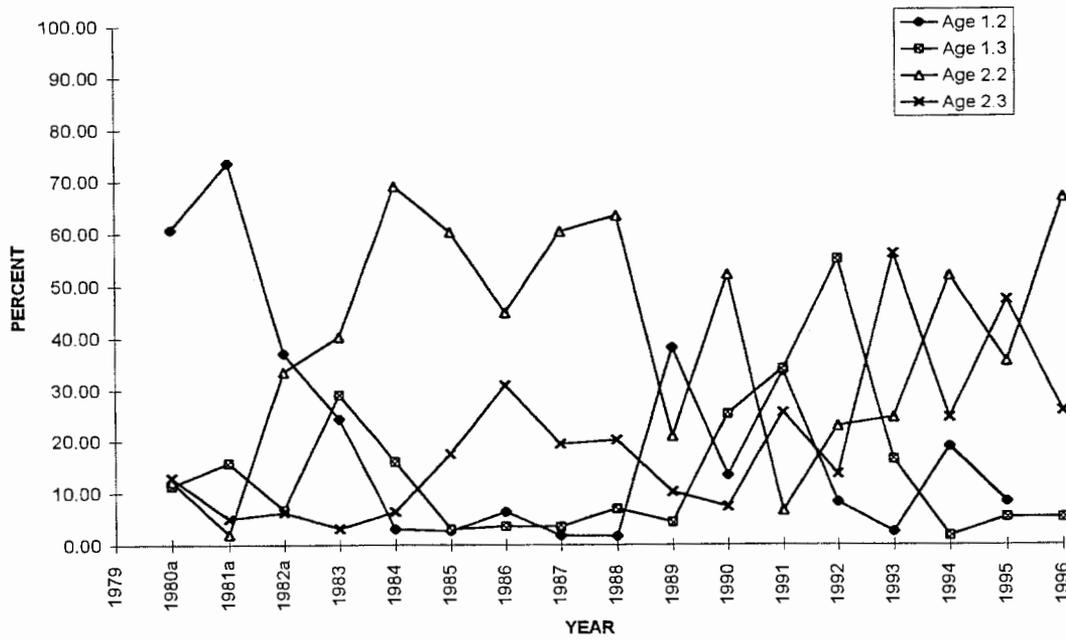


Figure 16. Age and length composition of sockeye salmon escapement in Packers Creek, Kalgin Island, Upper Cook Inlet, Alaska, 1979-96.

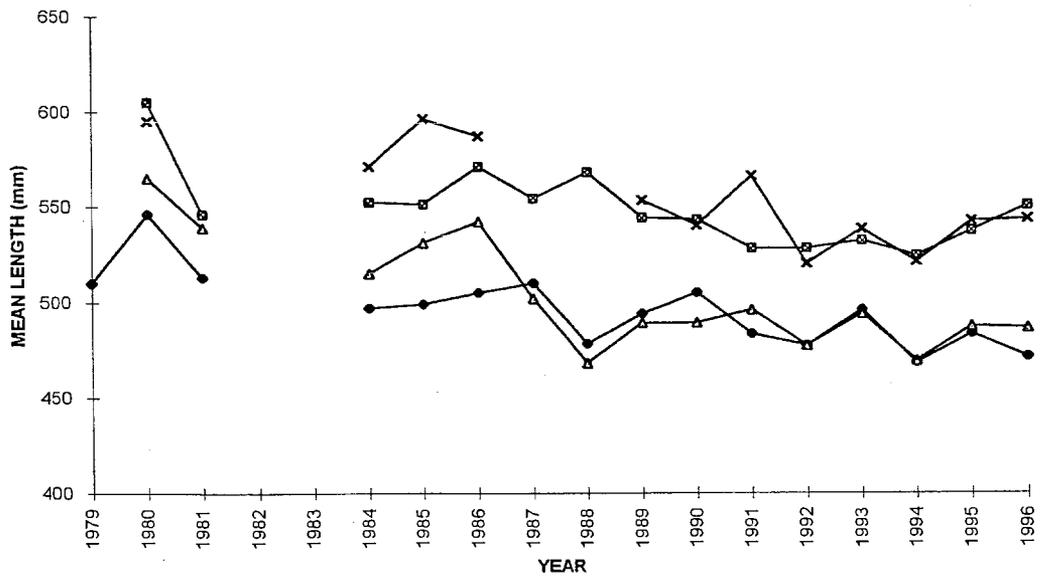
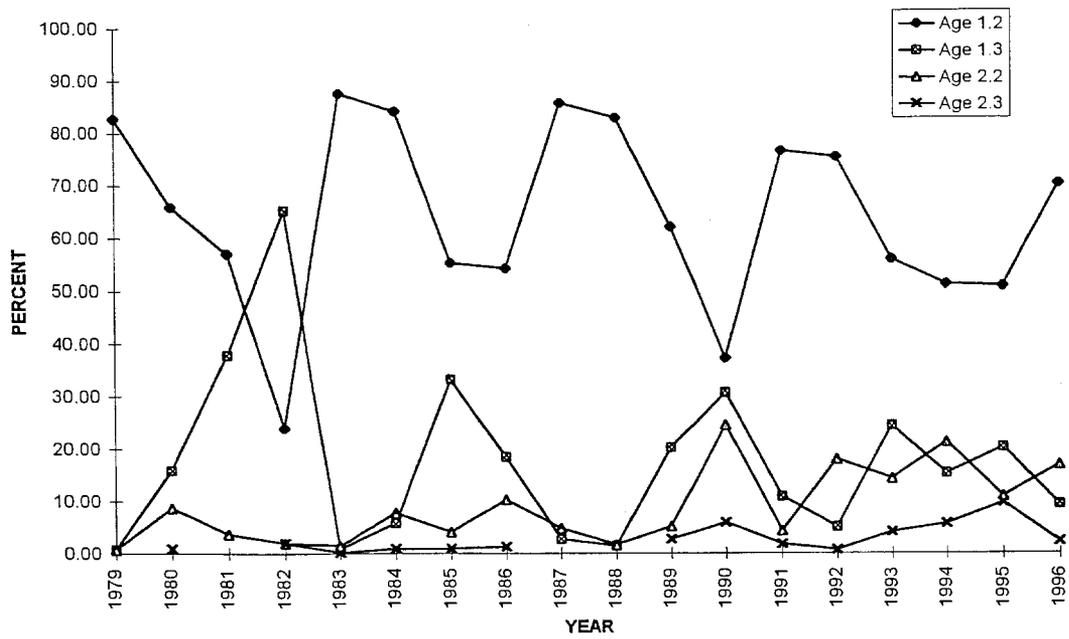


Figure 17. Age and length composition of sockeye salmon escapement in Fish Creek, Upper Cook Inlet, Alaska, 1979-96.

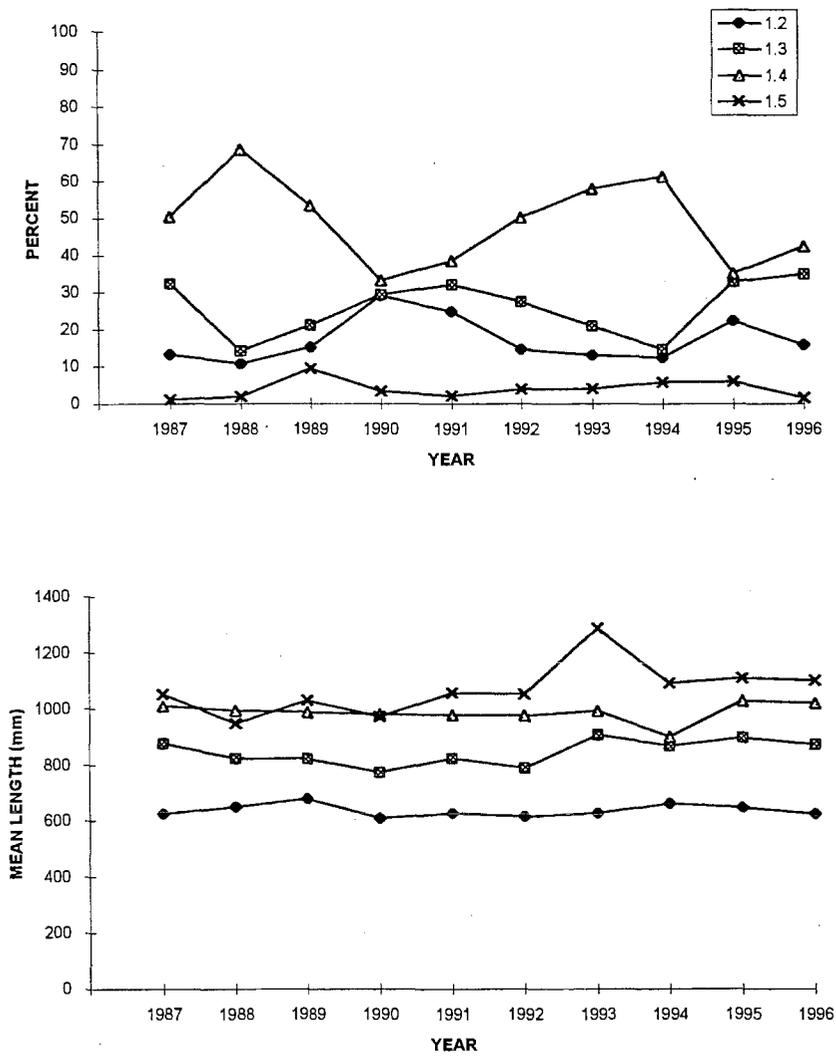


Figure 18. Age and length composition of chinook salmon harvested in the Central District, Upper Subdistrict commercial set gillnet fishery, Upper Cook Inlet, Alaska, 1987-1996.

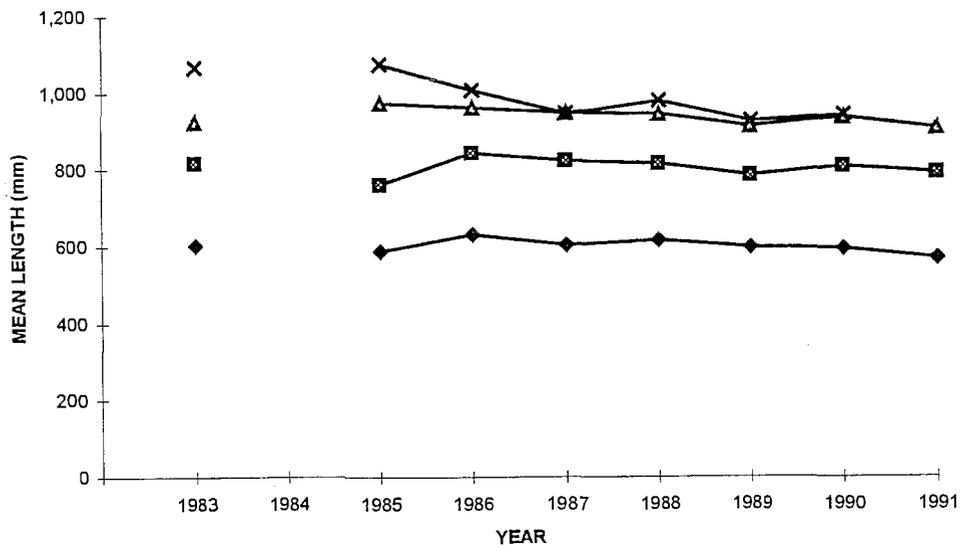
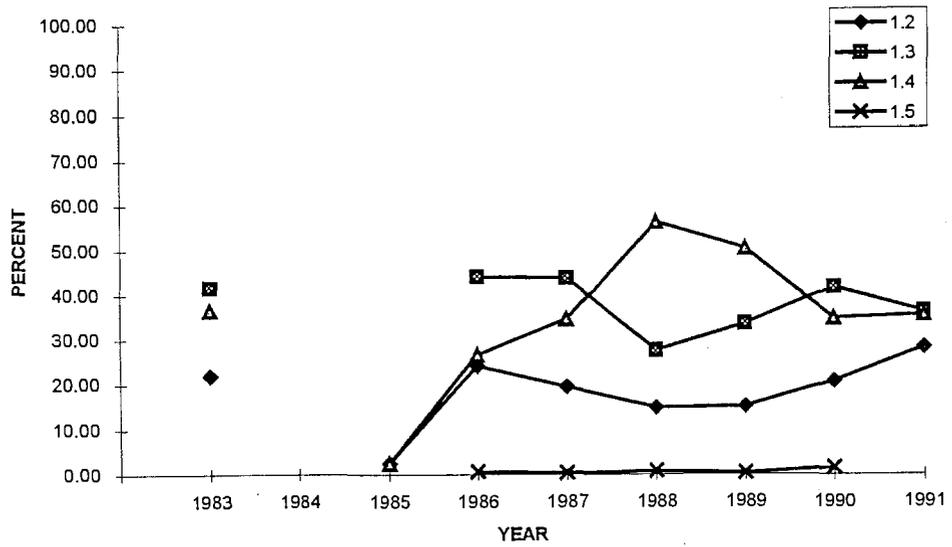


Figure 19. Age and length composition of chinook salmon harvested in the Northern District, General Subdistrict commercial set gillnet fishery, Upper Cook Inlet, Alaska, 1983-1991.

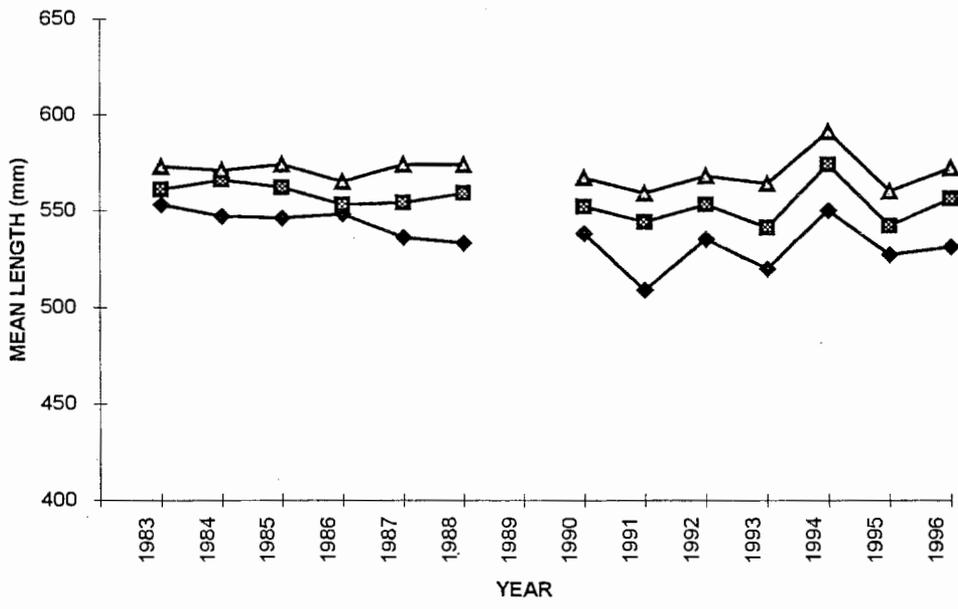
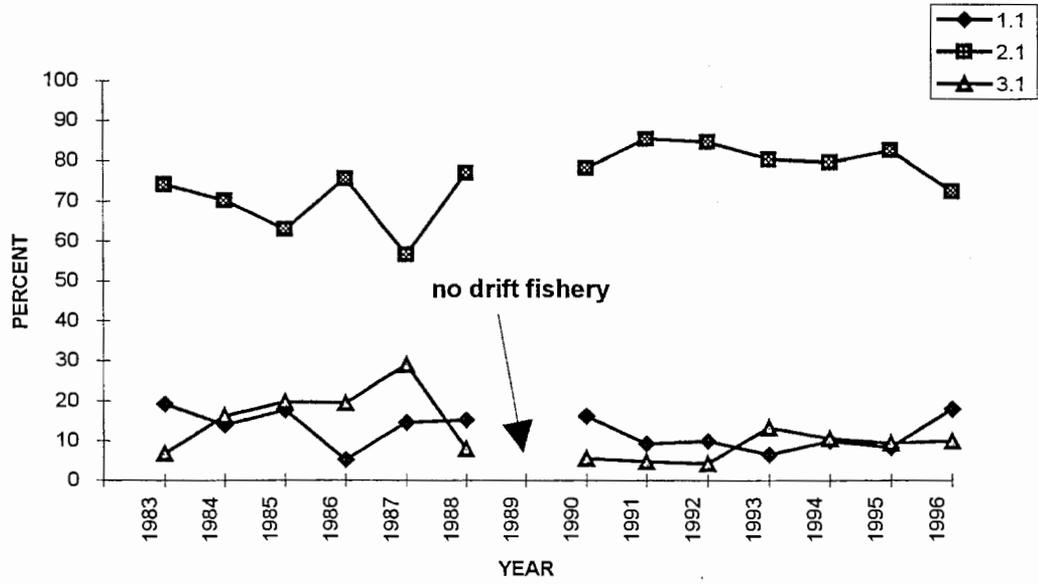


Figure 20. Age and length composition of coho salmon harvested in the Central District commercial drift gillnet fishery, Upper Cook Inlet, Alaska, 1983-1996.

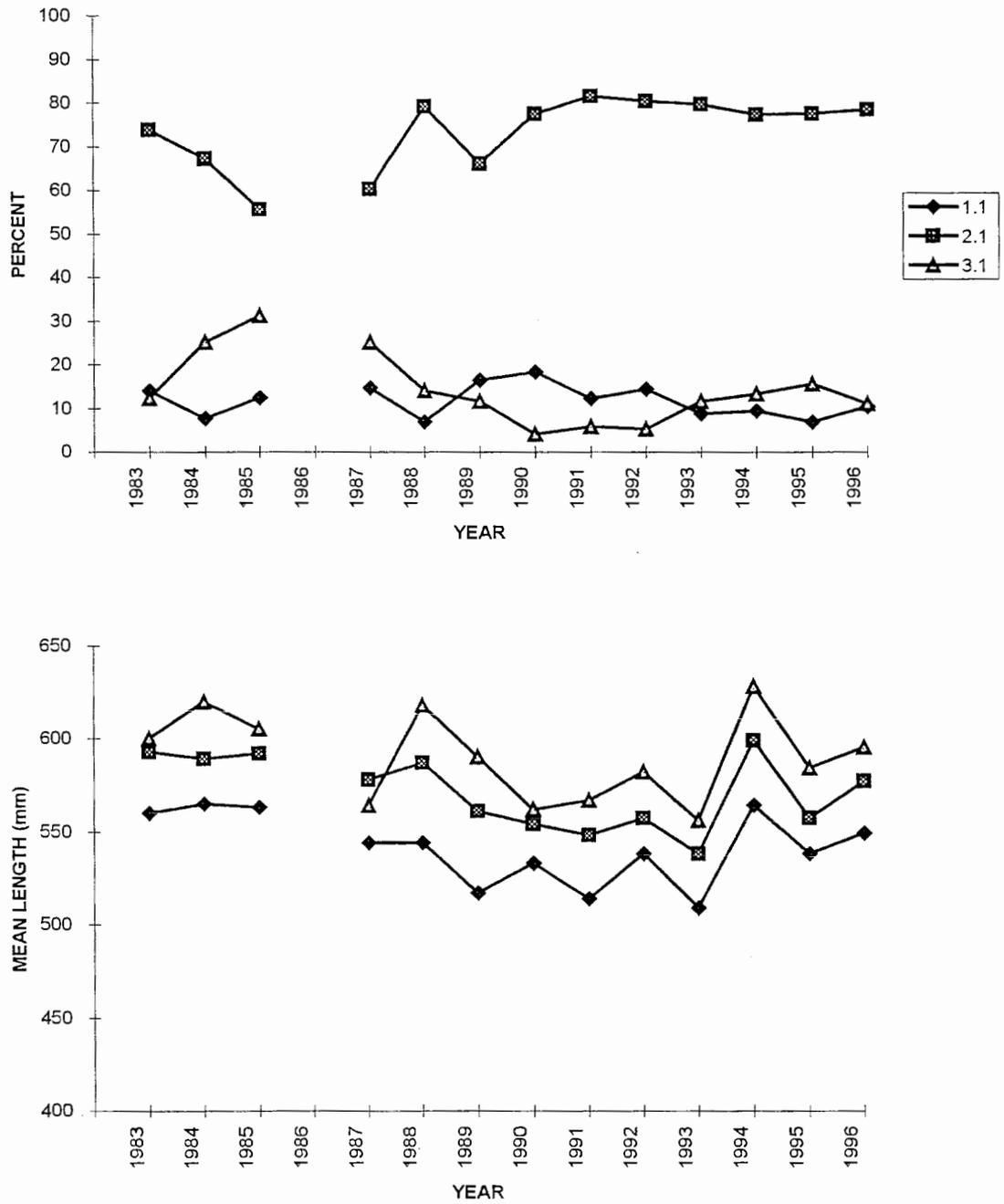


Figure 21. Age and length composition of coho salmon harvested in the Central District, Upper Subdistrict commercial set gillnet fishery, Upper Cook Inlet, Alaska, 1983-1996.

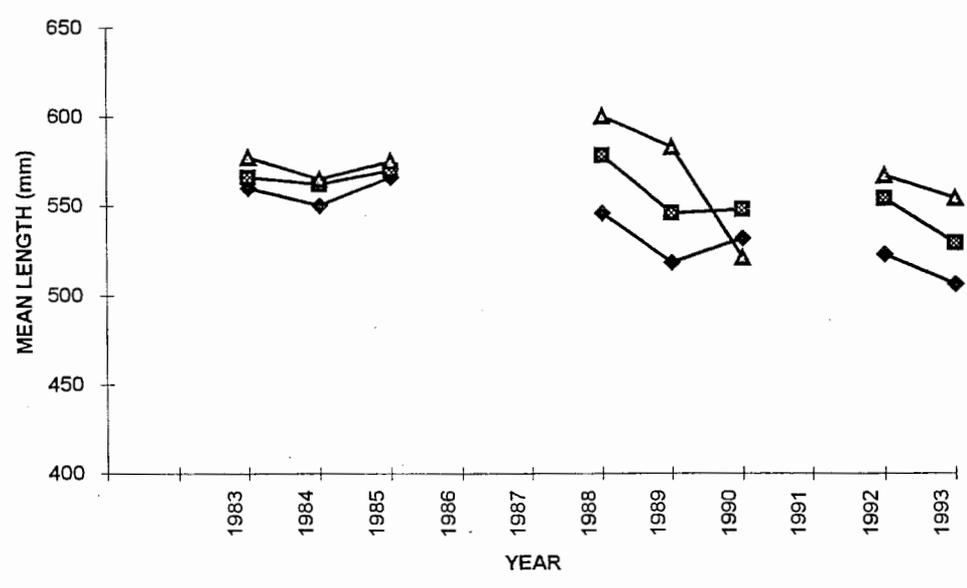
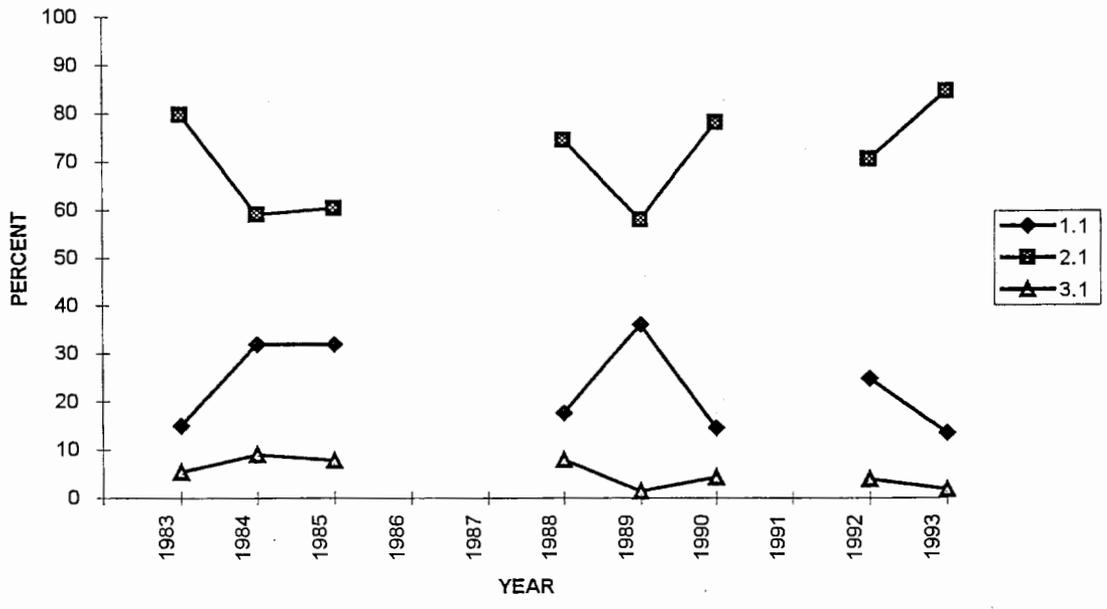


Figure 22. Age and length composition of coho salmon harvested in the Central District, Western Subdistrict commercial set gillnet fishery, Upper Cook Inlet, Alaska, 1983-1996.

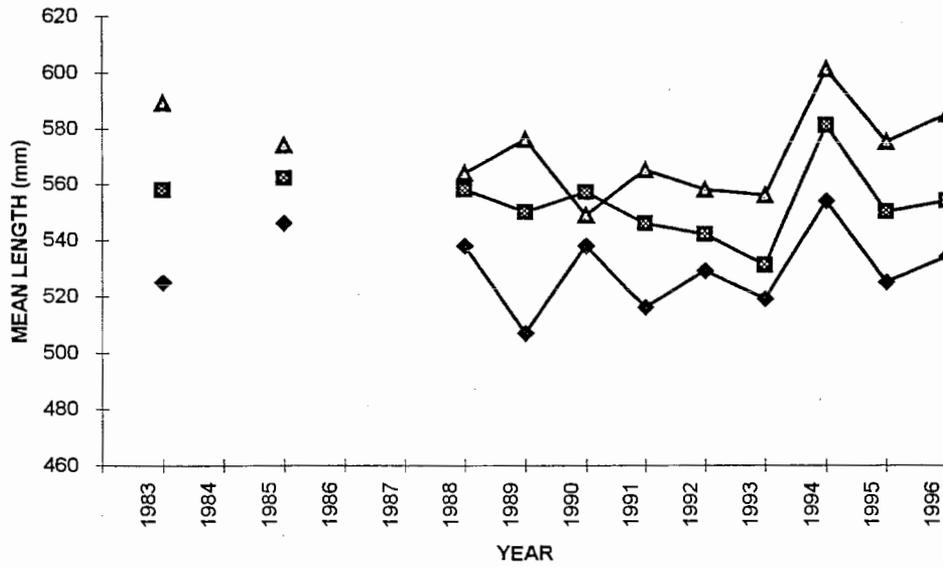
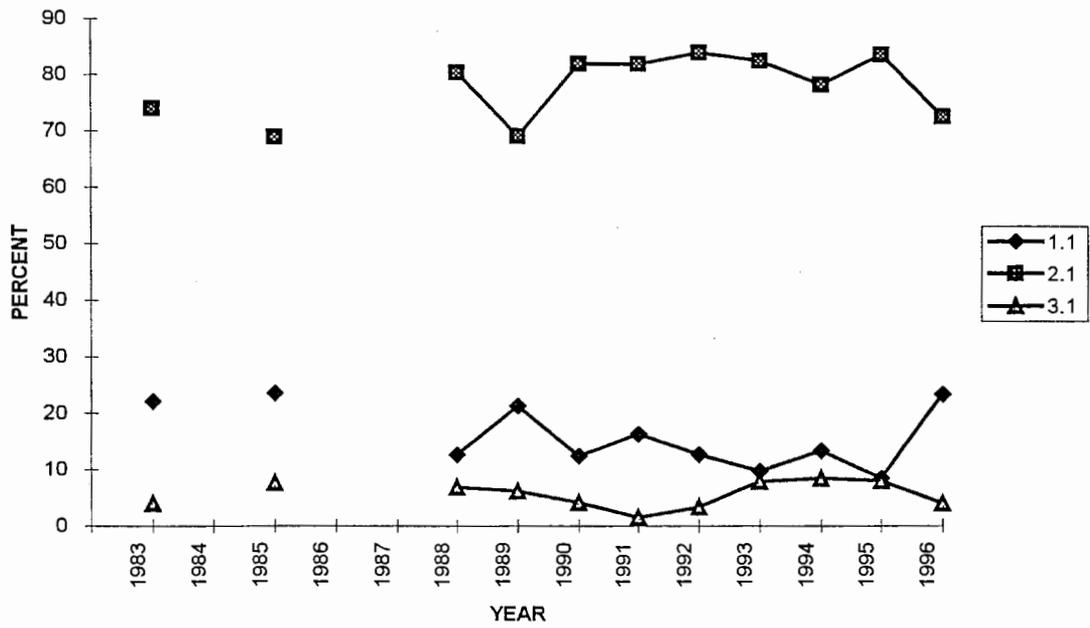


Figure 23. Age and length composition of coho salmon harvested in the Northern District, General Subdistrict commercial set gillnet fishery, Upper Cook Inlet, Alaska, 1983-1996.

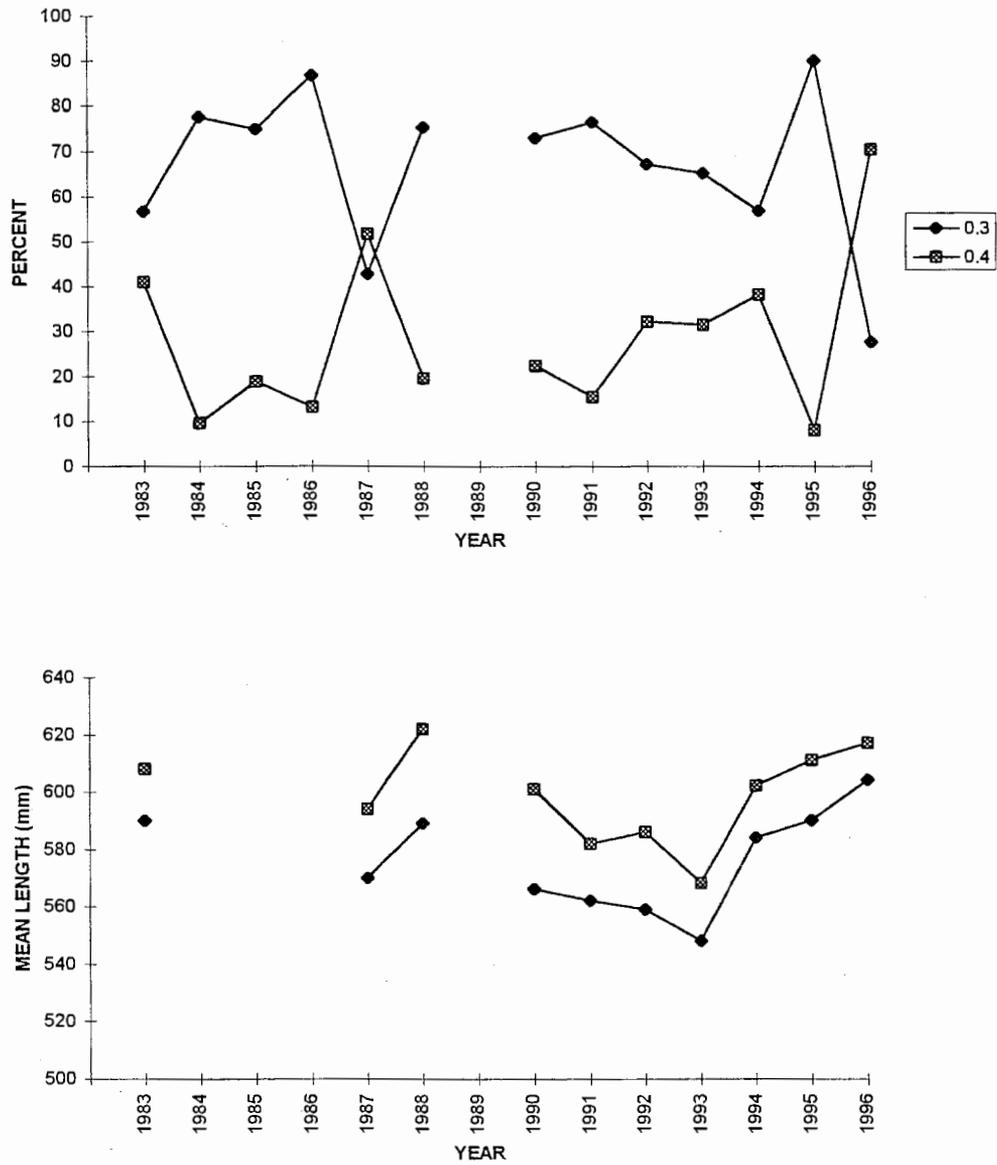


Figure 24. Age and length composition of chum salmon harvested in the Central District commercial drift gillnet fishery, Upper Cook Inlet, Alaska, 1983-1996.