



CATCH, ESCAPEMENT, AGE, SEX, AND SIZE OF SALMON
(Oncorhynchus spp.) RETURNS TO THE YAKUTAT AREA, 1982

Compiled and Edited by:
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and
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November 1983

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ABSTRACT

This report presents abundance, age, sex, and size data for the 1982 return of salmon to Yakutat area commercial net, sport, and subsistence fisheries. Sockeye (*Oncorhynchus nerka*) and coho salmon (*O. kisutch*) were the most abundant species and returns were generally average or above average. Sockeye returns to the East Alsek, Alsek, and Lost River systems had large proportions of 0-freshwater age fish (primarily age 4₁). Conversely, sockeye returns to the Alsek, Itallo, and Situk River systems were composed primarily of 1-freshwater age fish (primarily age 5₂). Large proportions of 2-freshwater age fish (primarily age 6₃) were found only in the Situk River return. Age 3₂ and 4₃ fish comprised nearly equal proportions of most coho fisheries.

KEY WORDS: AWL studies, Yakutat area, age classification.

INTRODUCTION

Yakutat area drainages support major returns of chinook salmon (*Oncorhynchus tshawytscha*), sockeye salmon (*O. nerka*), and coho salmon (*O. kisutch*). All of these species significantly contribute to fisheries throughout the Yakutat area. Both pink salmon (*O. gorbuscha*) and chum salmon (*O. keta*) are also indigenous to this area and are minor contributors to Yakutat area fisheries (Figure 1).

Adequate management of these resources requires knowledge of certain fundamental parameters of each contributing population or stock. Of particular importance is determination of brood stock requirements needed to maintain the population. To carry out this objective, it is necessary to accurately assess: (1) the magnitude of the removal (harvest) and its characteristics (distribution, age, sex, and size composition); and (2) the magnitude of the breeding population (spawning escapement) and its characteristics.

The objective of this report is to present estimates of stock-specific abundance, and age, sex, and size composition for the inshore return of salmon to the Yakutat area. Age composition and length by sex and age is reported for each sampled fishery and escapement. Detailed information for each fishery; and historical age, sex, and size data; is summarized in the Appendix. These catch and escapement data are presented in a manner that will facilitate future investigations of individual species and stock production.

METHODS

Description of Fisheries

Sockeye salmon are the most intensively harvested salmon species in the Yakutat area and support commercial gill net fisheries in the East Alsek, Alsek, Akwe, Italio, Situk, and Lost Rivers. All of these river systems also support returns of and fisheries on chinook, coho, and chum salmon. Several river systems north of Yakutat Bay, the Yahtse, Tsiu, and Kaliakh Rivers; are major producers of coho salmon and support intensive terminal gill net fisheries for this species. Interception gill net fisheries occur in the Manby Shore area and Yakutat Bay. The Yakutat coastal waters also support mixed-stock troll fisheries targeting primarily on coho salmon¹.

Abundance Data

Alaskan commercial catch data reported here were compiled by Alaska Department of Fish and Game (ADF&G) Division of Commercial Fisheries for each fishing district and are based on preliminary computer tabulations of individual sales records (fish tickets). The fish ticket tabulations used in this report were

¹ The troll fishery is not addressed in this report. The age, sex, and size composition of these fisheries will be reported in a similar publication on Southeastern Alaska coho salmon abundance and composition.

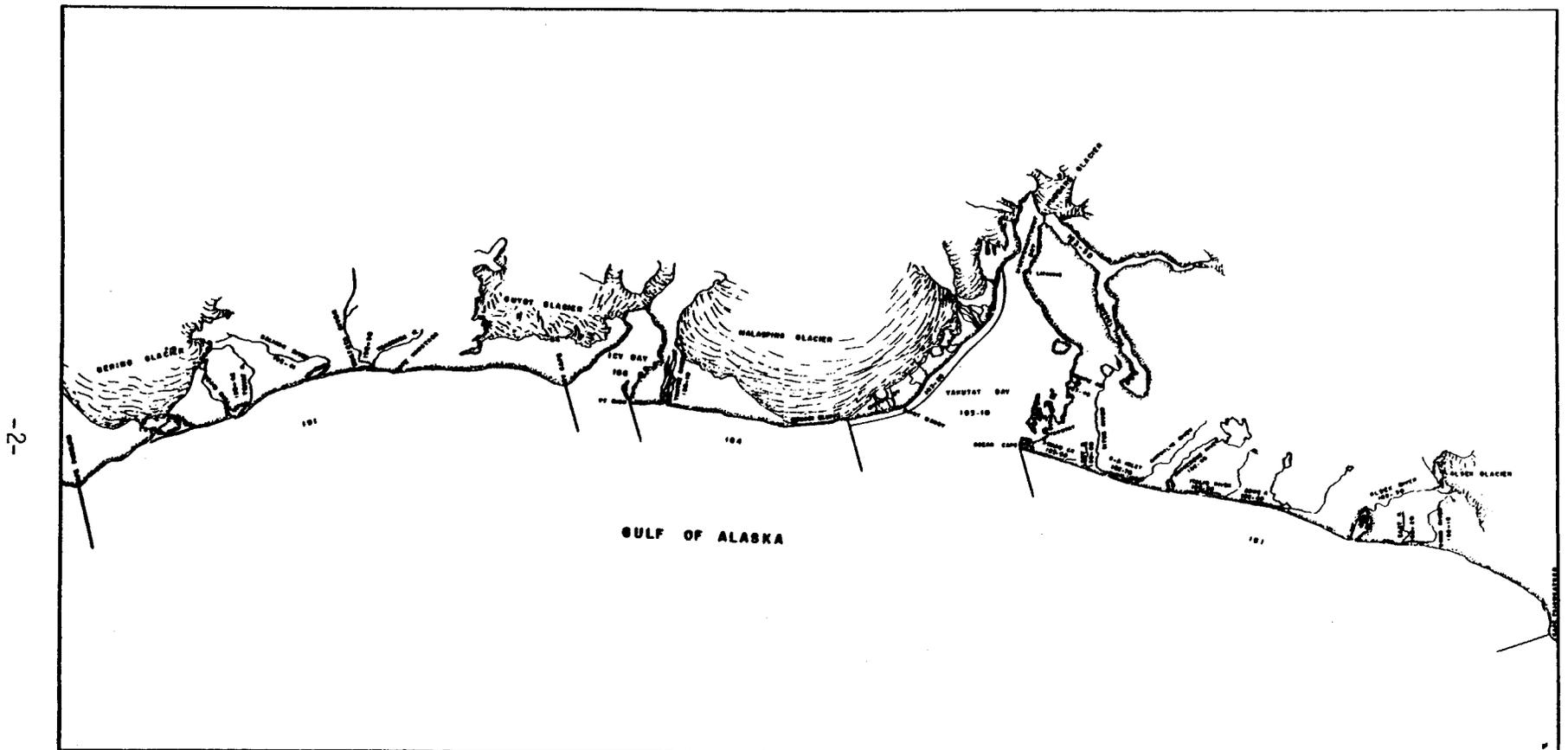


Figure 1. Map of Yakutat, Alaska, showing fishing district boundaries.

current through 5 May 1983 and will not differ significantly from final tabulations. These data are reported by weekly periods (Appendix Table 1). Sport catch data were obtained from ADF&G Division of Sport Fish (Mills 1983). Sport catch data by river system are only available for the Situk River and all other freshwater catches are pooled. Canadian catch data from the Alsek River were obtained from the Canadian Fisheries Service¹.

Most of the escapement data presented in this report were obtained from aerial surveys (Brogle 1982). Many of these aerial counts are considered indices of relative abundance and are not a complete enumeration of season escapement. However, aerial survey data for some river systems and species were considered at least a minimum estimate of total spawning escapement. While these aerial counts are considered approximations of the actual spawning escapement, the precision of the estimates is not known and the inter-annual variability is probably large.

Aerial survey data for sockeye escapements in the East Alsek, Italio, and Lost River systems were considered adequate to estimate minimum total spawning escapement. Situk River season escapement of sockeye is counted through a weir. Salmon escapement to the Klukshu River (Alsek River system) is also counted through a weir. However, other Alsek River spawning tributaries are not enumerated and total return is not known.

Aerial survey data were also used to estimate total spawning escapement of coho to the East Alsek (Doame River), Italio, Lost, Tsiu, and Kaliakh Rivers; and of chums to the East Alsek River.

Age, Size, and Sex Data

Data Collection:

Fish were sampled for scales, sex, and length. Scale samples were collected on the left side of the fish approximately two rows above the lateral line and on the diagonal row downward from the posterior insertion of the dorsal fin (INPFC 1963). Scales were mounted on gum cards and impressions were made in cellulose acetate (Clutter and Whitesel 1956). Otoliths were collected from a limited number of spawned-out carcasses and stored in plastic trays.

Examination of scale and otolith samples provided age information. Ages are reported in Gilbert-Rich² notation. Sex determination was based on examination of either morphometric characteristics or gonads. Fish length was generally measured from the middle of the eye to the fork of the tail.

Samples were collected from virtually all sockeye, chinook, and coho commercial catches. Chum commercial catches from the East Alsek were also sampled. Some

¹ Fisheries and Oceans Canada, 112 Industrial Rd., Whitehorse, YT.

² Gilbert-Rich formula: The first numeral refers to the total age of the fish. The second, usually subscripted, numeral refers to the number of years of freshwater residence. Marine age is the difference of these two numbers.

samples were collected from the Situk River chinook sport catch.

Samples were collected from all major sockeye spawning populations and the East Alsek chum escapement. Live fish were sampled at the Situk and Klukshu weirs. All other escapement samples were collected from spawned-out carcasses.

Age, Sex, and Length Composition:

An age composition was computed for each sampled fishery. These data were edited and summarized with the aid of a series of FORTRAN programs operating on a micro-computer (Yuen and Webster 1983). Age and sex samples were stratified over time (i.e., sample periods) where there were sufficient data. A sample period was defined as the minimum number of samples needed to attain a level of confidence, $1-\alpha$, of 0.90 and a level of accuracy, d , of 0.05 for determination of the age composition. The number of categories or age groups, k , for each species was defined as the sum of those age groups that comprise at least 90% of the sample plus one (i.e., all of the remaining age groups that comprise the remaining 10% of the sample were pooled into an "other" category for the purpose of calculating k). The parameter k , was calculated for each species as follows: chinook $k=4$; sockeye $k=5$, and coho $k=2$. These parameters were then applied to sample size determination formulas described by Cochran (1977). Minimum sample sizes to attain these levels of precision and accuracy were calculated for each species as follows: chinook $N=502$; sockeye $N=543$; and coho $N=385$. If there were insufficient fish to attain the above levels of precision and accuracy, the samples were pooled into a single sample period for that fishery.

An age composition was also computed for each sampled escapement. For most of the sampled escapements, samples were collected from carcasses over a short period of time and these data were pooled into a single sample period. For those escapements where samples were collected over time and there was a total abundance estimate, samples were stratified over time as described above.

Average length, by sex and age, is reported for a single sample period for each sampled fishery and escapement.

RESULTS AND DISCUSSION

Sockeye and coho salmon accounted for virtually all of the commercial and sport harvest of salmon in Yakutat area fisheries (Tables 1 and 2). Escapement estimates by species and river system are presented in Table 3. Summaries of commercial catches, escapements, and age and size data by species are presented in Tables 4-18. Detailed catch, effort, age, and sex data for the 1982 return are presented by fishery and species (Appendix Tables 2-59). Historical summaries of age and sex data are presented in Appendix Tables 60-66.

Chinook Salmon

Yakutat area chinook catches were generally less than in recent years (Table 4). The Situk River return was particularly poor and this resulted in an early closure of the sport fishery. The Alsek River catch was also well below recent levels.

Because of the limited number of fish, samples sizes were generally small (Tables 5-8) and the precision of the age, size, and sex composition estimates is low. Age 5₂ and 6₂ fish were the most abundant age classes in virtually all Yakutat area chinook samples. Age composition data for the Alsek River return is similar to historical data (Appendix Tables 60 and 61).

Sockeye Salmon

Sockeye catches in Yakutat area fisheries were variable (Table 9). Sockeye catches in the Akwe and Situk River fisheries were poor in comparison to past years while catches in all other Yakutat area fisheries were at or above recent levels. The East Alsek River experienced a record total return of approximately 180,000 fish. Timing of the East Alsek run was late as the peak catch occurred during the week of 1 August-7 August. Historically, the East Alsek fishery peaks during the last two weeks of July.

Sockeye escapements were at or above recent levels in all Yakutat-area spawning streams except the Situk River.

Age 5₂ fish dominated most Yakutat area fisheries and escapements (Tables 10-13). However, large numbers of 0-freshwater age fish¹ were present in catches from the East Alsek, Akwe, Italo, and Yakutat Bay fisheries; and in escapements from the East Alsek, Akwe, and Lost Rivers. The East Alsek sockeye return is unique in that virtually the entire return is composed of 0-freshwater age fish. Large numbers of 2-freshwater age sockeye, primarily age 6₃ fish, were found in catches from the Situk, Lost, Yakutat Bay, and Manby Shore fisheries; and in the Situk River escapement.

Age composition of the East Alsek, Akwe, Italo, and Lost River escapements was similar to 1981 (Appendix Table 62). Age composition of the Situk River escapement was similar to previous years in that age 5₂ was the dominant age class (Appendix Table 63). However, age composition in this system has been highly variable. The portion of the escapement attributed to age 6₃ fish (31%) during 1982 was the largest ever observed for this system.

Although most of these in-river fisheries are considered single stock fisheries, analysis of age composition data indicates the presence of discrete spawning populations within individual river systems (see Tables 10 and 13). In the Alsek River, age 5₂ fish comprised a much higher percentage of the Klukshu River escapement (94%) than the catch (71%). Conversely, the percentage of age 4₂ fish was much higher in the catch (16%) than the escapement (3%). If these differences were primarily due to differential catchability, a higher proportion of smaller, younger fish would be expected in the escapement than in the catch. Other Alsek River spawning populations could be composed of a higher proportion of younger (2-ocean) fish than the Klukshu River population.

¹ These fish presumably outmigrate as fry in the spring of emergence from the gravel as opposed to the more common life history of 1- or 2-freshwater age sockeye which rear in the freshwater environment for one or two years, respectively.

Perhaps discrete populations are also present in the Akwe and Italo River systems. In the Akwe River escapement, the percentage of age 5₂ fish was higher in 1982 (14%) (see Table 12) than in 1981 (2%) (see Appendix Table 62). During 1981, all escapement samples were obtained from the lake outlet (1 to 3 miles below Akwe Lake) which is the largest known spawning concentration in the Akwe system. During 1982, most of the samples were also obtained from this location although some fish (25) were also obtained from the inlet stream (see Appendix Table 22). Age composition between these two locations is significantly different as most of the fish from the inlet stream are 1-freshwater whereas the majority of spawners in the outlet stream are 0-freshwater age fish. In the Italo River, age 4₁ fish compose a significantly higher percentage of the commercial catch (22%) than the escapement (0.3%). This difference cannot be explained by differential catchability as both age classes are 3-ocean fish (age 4₁ and 5₂) and are of similar size (see Table 11). This difference can probably be attributed to the methodology by which the escapement was sampled. All of the escapement samples were obtained from spawning fish in Italo Lake (beach spawners) and no samples were obtained from the outlet stream (Italo River).

Age composition analysis of mixed stock fisheries lends support to a priori assumptions concerning stock composition of these fisheries. The Lost River and Manby Shore catches were presumed to contain a significant proportion of Situk River fish. The age composition of both of these fisheries are similar to that of the Situk River return. The Yakutat Bay fishery was presumed to be composed of a large percentage of Situk River fish during the first portion of the fishery and an increasingly larger percentage of East Alsek River fish later in the fishery. This hypothesis is supported through a time-series summarization of age composition of the Yakutat Bay fishery as the percentage of age 4₁ fish significantly increased over time (see Appendix Table 45).

Coho Salmon

Yakutat area coho returns were generally at or above recent levels (Table 14). Virtually all coho catches were composed of approximately equal proportions of age 3₂ and 4₂ fish (Tables 15 and 16). Historical age composition for these fisheries (Gray et al. 1981) has been variable (Appendix Tables 64 and 65).

Chum Salmon

The East Alsek River is the only significant producer of chum salmon in the Yakutat area. The 1982 East River return was below recent levels. Age composition was similar in the catch and escapement (Tables 17 and 18). Age 4₁ fish composed a higher percentage of the 1981 escapement (82%) (Appendix Table 66) than the 1982 escapement (58%).

ACKNOWLEDGMENTS

The editors are indebted to Ms. Renate Riffe for collection of virtually all of the commercial catch, age, size, and sex data. Mr. Henry Yuen is especially thanked for his help in modification of computer software to summarize these data. The entire age, sex, size data base was keyed by Ms. Linda Emerson. The 1982 scale collection was aged by Mr. David Mesiar (coho), Mr. Scott McPherson

(sockeye), Mr. Ben Van Alen (chinook), and Mr. Andrew McGregor (chum). Dr. David Bernard supplied the sample size analysis.

Table 1. Yakutat area commercial gill net harvest of salmon by fishery and species, 1982.

Fishery	Number of fish				
	Chinook	Sockeye	Coho	Pink	Chum
East Alsek	84	98,837	2,578	493	4,731
Alsek	532	27,389	6,534	6	358
Akwe	129	5,331	10,585	129	82
Italio	6	2,931	6,940	287	610
Situk	248	29,751	27,549	4,482	140
Lost	12	4,980	9,366	719	14
Yakutat Bay	419	24,330	4,483	3,688	269
Manby Shore	26	18,657	10,044	35	101
Yahtse			7,668		
Tsiu			46,436		
Kaliakh			16,443		
U.S Total	1,456	212,206	148,626	9,839	6,305
Alsek (Canada)	300	5,500			
Total	1,756	217,706	148,626	9,839	6,305

Table 2. Yakutat area sport harvest of salmon by fishery and species, 1982.

Number of fish					
Fishery	Chinook	Sockeye	Coho	Pink	Chum
Situk	63	419	964	220	
Other	178	42	975	63	10
Total	241	461	1,939	283	10

Table 3. Yakutat area escapement of salmon by river system and species, 1982¹.

Fishery	Number of fish				
	Chinook	Sockeye	Coho	Pink	Chum
East Alek		80,000 ²	3,200		3,000
Alek-Klukshu ²	2,369	33,699	189		
-Other ⁴		2,700	1,000		
Akwe	20	8,000	3,000		
Italio ²		9,000	5,800	3,000	1,000
Situk-Weir ³	611	75,511		40,382	9
-Other ⁵		5,000	15,550		
Lost ^{1 2}		6,000	7,800		
Yakutat Bay ⁶			555	8,700	
Manby Shore ⁷		1,700	600		
Yahtse			1,200		
Tsiu ²			40,000		
Kaliakh ²			8,000		

¹ Peak aerial surveys unless noted otherwise.

² Estimated total escapement.

³ Weir.

⁴ Tanis River, Cabin Creek, Basin Creek.

⁵ Below weir, Old Situk, Ahrnklin River.

⁶ Humpy Creek, Pudget Cove Creek, White Alice Creek, Canoe Pass, Knight Island, Strawberry Creek.

⁷ Malaspina, Manby Pond.

Table 4. Yakutat area commercial gill net harvest of chinook salmon by fishery and week, 1982.

Number of fish

Week Ending	East Alsek	Alsek	Akwe	Situk	Lost	Yakutat Bay	Manby Shore
06/12	41	357					
06/19	22	86				153	6
06/26	1	32		35	1	27	4
07/03	3	18	59	69	4	43	14
07/10	5	23	64	53	3	56	2
07/17	2	10	2	56	3	16	
07/24	3	2	4	23		32	
07/31	1	2		9		47	
08/07	1	1		2	1	20	
08/14	4	1		1		11	
08/21						13	
08/28							
09/04	1						
09/11							
09/18						1	
Total	84	532	129	248	12	419	26

Table 5. Age composition of chinook salmon from Yakutat area commercial gill net fisheries, 1982.

Fishery	Sample Size	Total Catch	Percent Composition by Brood Year and Age Class							
			1979		1978		1977	1976	1975	
			3 ₁	3 ₂	4 ₁	4 ₂	5 ₂	6 ₂	7 ₂	
East Alsek	25	84				4.10	28.02	67.88		
Alsek	77	532			1.32	14.33	34.94	42.84	1.32	
Akwe	50	129		2.33		45.74	40.31	11.63		
Situk	17	248				17.74	29.44	52.82		
Yakutat Bay	42	419	4.95		4.95	26.13	40.09	23.87		

Table 6. Lengths (mm) of chinook salmon from Yakutat area commercial gill net fisheries, 1982¹.

Fishery	Sex		Age Class					
			3 ₂	4 ₁	4 ₂	5 ₂	6 ₂	7 ₂
East Alsek	Male	Mean				846	939	
		Std Error				20.0	18.2	
		Sample Size				4	7	
	Female	Mean			705	845	880	
		Std Error				17.3	10.8	
		Sample Size			1	3	10	
Alsek	Male	Mean		825	565	811	942	1.050
		Std Error			22.1	27.6	11.3	
		Sample Size		1	11	13	17	1
	Female	Mean			576	799	907	
		Std Error			11.4	20.0	9.8	
		Sample Size			4	14	16	
Akwe	2	Mean	470		651	802	948	
		Std Error			11.4	24.4	9.9	
		Sample Size	1		23	20	6	
Situk	2	Mean			652	784	928	
		Std Error			15.0	37.6	26.8	
		Sample Size			3	5	9	

¹ Mid-eye-to-fork length.

Sex determination not made for all samples.

Table 7. Age composition of chinook salmon from Yakutat area escapements, 1982.

River System	Sample Size	Total Escapement	Percent Composition by Brood Year and Age Class			
			1978	1977		1976
			4 ₂	5 ₁	5 ₂	6 ₂
Alsek ¹	93	2,369	19.38	1.06	40.86	38.71

¹ Klukshu weir.

Table 8. Lengths (mm) of chinook salmon from Yakutat area escapements, by sex, 1982¹.

River System	Sex		Age Class			
			4 ₂	5 ₁	5 ₂	6 ₂
Alsek ²	Male	Mean	999	895	1,291	1,023
		Std Error	415.8		368.0	25.8
		Sample Size	16	1	24	25
	Female	Mean	680		808	974
		Std Error	0.0		20.8	24.7
		Sample Size	2		14	11

¹ Total length.

² Klukshu weir.

Table 9. Yakutat area commercial gill net harvest of sockeye salmon by fishery and week, 1982.

Week Ending	Number of fish							
	East Alsek	Alsek	Akwe	Italio	Situk	Lost	Yakutat Bay	Manby Shore
06/12	185	2,508						
06/19	9	1,181					4,226	
06/26	68	1,951			4,435	250	2,268	2,681
07/03	32	1,357	738		6,011	783	2,088	8,022
07/10	192	1,606	1,235	578	2,921	831	1,045	3,446
07/17	6,871	7,601	932	737	4,213	871	3,656	3,379
07/24	6,245	5,405	1,227	674	4,119	581	1,861	629
07/31	3,361	3,301	338	292	3,489	46	708	500
08/07	46,749	1,122	471	505	3,078	1,285	5,992	
08/14	20,935	1,155		32	725	76	1,130	
08/21	11,199	132	22	72	523	127	1,302	
08/28	2,279	41	6	34	168	111	53	
09/04	633	19	2	7	61	16	1	
09/11	56	7			5	1		
09/18	19	3			3	1		
09/25	4					1		
10/02			360					
Total	98,837	27,389	5,331	2,931	29,751	4,980	24,330	18,657

Table 10. Age composition of sockeye salmon from Yakutat area commercial gill net fisheries, 1982.

Fishery	Sample Size	Total Catch	Percent Composition by Brood Year and Age Class									
			1979	1978		1977			1976		1975	
			3 ₁	4 ₁	4 ₂	5 ₁	5 ₂	5 ₃	6 ₂	6 ₃	6 ₄	7 ₄
East Alsek	624	98,335	17.79	67.15	5.93	.48	8.17	.32		.16		
Alsek	1,556	27,177	.76	3.77	15.68	.08	70.75	2.01	.17	6.77		
Akwe	527	5,331	14.24	44.79	12.51	.56	25.62	.38		1.71	.19	
Italio	386	2,931	3.38	22.28	16.34		51.25	2.32	.27	4.16		
Situk	1,304	29,742	1.23	6.99	7.55	.07	44.29	7.37	.16	31.57	.31	.45
Lost	311	5,035	.32	7.41	14.48		45.64	10.61		21.23	.32	
Yakutat Bay	658	25,749	3.50	37.84	6.99	.15	39.66	1.37		10.18	.15	.15
Manby Shore	463	17,328	.86	6.26	13.39		61.14	4.75		12.53	.21	.86

Table 11. Lengths (mm) of sockeye salmon from Yakutat area commercial gill net fisheries, by sex and age, 1982¹.

Fishery	Sex		Age Class								
			3 1	4 1	4 2	5 1	5 2	5 3	6 2	6 3	6 4
East Alsek	Male	Mean	520	587	512	600	580	485		585	
		Std Error	2.9	2.2	5.7	30.0	5.4	20.0			
		Sample Size	86	186	28	2	20	2		1	
	Female	Mean	504	569	522	575	555				
		Std Error	9.7	1.4	6.9		5.3				
		Sample Size	25	233	9	1	31				
Alsek	Male	Mean	471	592	499		598	517	605	592	
		Std Error	20.0	7.4	5.2		1.5	13.2	7.6	4.1	
		Sample Size	11	21	127		485	16	3	54	
	Female	Mean		573	524	575	571	509	625	567	
		Std Error		4.4	3.7		1.2	5.8		3.5	
		Sample Size		31	98	1	644	12	1	52	
Akwe	Male	Mean	452	592	477	625	598	500		578	
		Std Error	3.1	2.7	6.5		3.1			14.9	
		Sample Size	66	92	45	1	48	1		5	
	Female	Mean	489	570	512	592	564	570		559	590
		Std Error	7.2	1.7	7.9	2.5	2.3			5.5	
		Sample Size	9	144	21	2	87	1		4	1
Itallo	Male	Mean	478	598	529		593	506	590	583	
		Std Error	13.5	4.4	5.7		2.4	11.9		9.0	
		Sample Size	12	33	35		91	7	1	10	
	Female	Mean	500	577	510		567	498		563	
		Std Error		2.7	3.6		2.0	2.5		11.1	
		Sample Size	1	53	28		107	2		6	
Situk	Male	Mean	500	589	507	640	578	506		560	440
		Std Error	12.9	4.8	7.2		2.7	5.5		3.3	
		Sample Size	11	47	62	1	228	67		180	1
	Female	Mean	502	562	509		553	513	548	548	490
		Std Error	15.2	4.8	5.9		1.6	7.5	17.5	2.0	5.0
		Sample Size	5	45	36		348	29	2	233	3
Lost	Male	Mean	535	577	513		583	481		568	415
		Std Error		12.7	5.5		3.8	9.9		7.3	
		Sample Size	1	8	31		50	22		31	1
	Female	Mean		568	509		560	522		567	
		Std Error		5.4	5.0		2.5	7.5		3.4	
		Sample Size		15	14		92	11		35	
Yakutat Bay	Male	Mean	525	594	508	585	594	518		590	
		Std Error	6.2	1.8	7.4		2.1	17.4		4.8	
		Sample Size	19	135	32	1	112	4		34	
	Female	Mean	506	570	525		566	517		546	555
		Std Error	11.1	1.8	4.0		2.1	3.0		3.3	
		Sample Size	4	114	14		149	5		33	1
Manby Shore	Male	Mean	457	590	512		585	525		574	
		Std Error	19.2	8.0	4.8		2.6	8.8		4.7	
		Sample Size	3	15	31		116	12		26	
	Female	Mean	505	569	500		561	499		552	525
		Std Error		4.1	4.5		1.9	8.3		4.3	
		Sample Size	1	14	31		167	10		32	1

¹ Mid-eye-to-fork length.

Table 12. Age composition of sockeye salmon from Yakutat area escapements, 1982.

Escapement	Sample Size	Total Escapement	Percent Composition by Brood Year and Age Class										
			1980	1979		1978			1977		1976		1975
			2 ₁	3 ₁	3 ₂	4 ₁	4 ₂	4 ₃	5 ₂	5 ₃	6 ₃	6 ₄	7 ₄
East Alsek	539	80,000 ^{1 2}	.19	32.28	.19	51.21	9.09		7.05				
Alsek	394	33,699 ³				1.01	3.04		94.16		1.78		
Akwe	107	8,000 ^{1 4}	.90	20.70		51.40	7.50		14.00	1.80	3.70		
Italio	388	9,000 ^{1 2}	.26		1.03	.26	29.38		60.59	3.34	4.89		.26
Situk	1,089	80,511 ⁵				.78	11.37	.10	40.95	14.32	30.61	1.71	.16
Lost	220	6,000 ^{1 2}		24.08	3.63	7.27	40.02	.92	17.72	4.55	1.82		

¹ Aerial survey.

² Estimated total escapement.

³ Klukshu weir.

⁴ Total escapement not estimated. Escapement indexed at 8,000 spawners.

⁵ Situk weir. Includes estimated 5,000 spawners in Old Situk River.

Table 13. Lengths (mm) of sockeye salmon from Yakutat area escapements, by sex and age, 1982¹.

Escapement	Sex		Age Class										
			2 1	3 1	3 2	4 1	4 2	4 3	5 2	5 3	6 3	6 4	7 4
East Alsek ²	Male	Mean	370	483		578	478		562				
		Std Error		3.7		2.7	9.2		8.4				
		Sample Size	1	53		173	12		16				
	Female	Mean		478	520	555	477		555				
		Std Error		1.7		2.4	4.1		6.0				
		Sample Size		121	1	103	37		22				
Alsek ³	Male	Mean				641	509		631		671		
		Std Error				40.8	12.6		7.9		1.0		
		Sample Size				4	4		204		2		
	Female	Mean					520		586		604		
		Std Error					18.2		7.4		7.8		
		Sample Size					8		176		5		
Akwe ²	Male	Mean	395	430		592	447		581	460			
		Std Error		5.1		12.5	11.3		7.0				
		Sample Size	1	20		7	6		5	1			
	Female	Mean		458		545	458		544	480	535		
		Std Error		2.5		3.1	7.5		6.8		5.4		
		Sample Size		2		48	2		12	1	4		
Italio ²	Male	Mean			328	575	462		564	482	566		570
		Std Error			21.8		4.5		2.9	9.6	10.4		
		Sample Size			4	1	61		116	6	12		1
	Female	Mean		465			474		535	475	536		
		Std Error					3.1		2.3	6.7	14.2		
		Sample Size		1			53		119	7	7		
Situk ³	Male	Mean				568	468	360	550	477	550	487	525
		Std Error				18.9	6.3		3.7	5.0	3.3	16.3	
		Sample Size				4	81	1	159	95	151	11	1
	Female	Mean				546	494		531	484	535	486	505
		Std Error				2.2	5.1		1.8	3.8	2.2	7.5	
		Sample Size				4	42		289	60	183	7	1
Lost ²	Male	Mean		438	312	564	455	325	564	442	558		
		Std Error		7.9	4.0	9.3	8.8	20.0	6.5	12.5	7.3		
		Sample Size		20	8	5	27	2	20	2	3		
	Female	Mean		424		544	448		540	451	520		
		Std Error		5.5		6.0	4.4		4.3	10.3			
		Sample Size		33		11	61		19	8	1		

¹ Mid-eye-to-fork length.

² Carcass samples.

³ Weir samples.

Table 14. Yakutat area commercial gill net harvest of coho salmon by fishery and week, 1982.

Week Ending	East Alsek	Alsek	Akwe	Italio	Situk	Lost	Yakutat Bay	Manby Shore	Yahtse	Tsiu	Kaliakh
06/19							522				
06/26											
07/03					2		5	36			
07/10					7		66	40			
07/17			1		2		207	76			
07/24	1			1	10		491				
07/31	8			14	90	1	523				
08/07	8		10	2	47	2	319				
08/14	54	9		10	203	58	574				
08/21	116	19	14	77	1,305	105	860				
08/28	352	151	163	302	2,248	442	126	343	690	9,106	
09/04	710	583	949	597	5,745	2,473	126	2,099	1,133	11,380	3,062
09/11	714	834	438	283	4,755	952	238	3,035	2,462	15,118	8,312
09/18	531	1,930	2,440	1,551	6,879	2,116	99	3,058	2,532	10,387	2,927
09/25	84	3,008	2,999	1,731	4,282	1,696	90		658	445	2,142
10/02			3,571	2,372	1,974	1,521	237	1,357	193		
Total	2,578	6,534	10,585	6,940	27,549	9,366	4,483	10,044	7,668	46,436	16,443

Table 15. Age composition of coho salmon from Yakutat area commercial gill net fisheries, 1982.

Fishery	Sample Size	Total Catch	Percent Composition by Brood Year and Age Class		
			1979	1978	1977
			3 ₂	4 ₃	5 ₄
East Alsek	64	2,578	45.35	51.51	3.14
Alsek	289	6,534	42.56	55.71	1.73
Akwe	339	10,585	47.48	49.86	2.65
Italio	327	6,940	49.55	48.30	2.15
Situk	474	27,549	50.63	46.42	2.95
Lost	311	9,366	63.81	35.94	.26
Yakutat Bay	27	4,483	48.14	48.16	3.70
Manby Shore	288	10,044	27.43	69.10	3.47
Yahtse	385	7,668	44.42	53.50	2.09
Tsiu	320	46,436	42.81	53.44	3.75
Kaliakh	138	16,443	44.21	55.07	.72

Table 16. Lengths (mm) of coho salmon from Yakutat area commercial gill net fisheries, by sex and age, 1982¹.

Fishery	Sex		Age Class		
			3 ₂	4 ₃	5 ₄
East Alsek	Male	Mean	625	633	640
		Std Error	10.1	8.2	15.0
		Sample Size	13	21	2
	Female	Mean	631	635	
		Std Error	11.0	6.3	
		Sample Size	16	12	
Alsek	Male	Mean	617	615	642
		Std Error	6.2	7.1	17.5
		Sample Size	80	88	2
	Female	Mean	633	637	667
		Std Error	4.5	4.3	21.7
		Sample Size	43	73	3
Akwe	Male	Mean	625	640	620
		Std Error	5.1	4.9	21.7
		Sample Size	103	101	7
	Female	Mean	637	649	668
		Std Error	3.4	3.3	12.5
		Sample Size	58	68	2
Italio	Male	Mean	642	663	658
		Std Error	5.3	4.0	16.1
		Sample Size	87	82	4
	Female	Mean	648	655	640
		Std Error	2.7	3.0	21.8
		Sample Size	75	76	3
Situk	Male	Mean	629	647	621
		Std Error	4.0	3.9	25.1
		Sample Size	127	123	7
	Female	Mean	637	646	655
		Std Error	2.5	3.0	6.6
		Sample Size	113	97	7

-Continued-

Table 16. Lengths (mm) of coho salmon from Yakutat area commercial gill net fisheries, by sex and age, 1982¹ (continued).

Fishery	Sex		Age Class		
			3 ₂	4 ₃	5 ₄
Lost	Male	Mean	641	648	675
		Std Error	3.5	5.2	
		Sample Size	135	72	1
	Female	Mean	645	649	
		Std Error	2.8	3.0	
		Sample Size	110	66	
Yakutat Bay	Male	Mean	598	642	630
		Std Error	11.4	9.1	
		Sample Size	10	11	1
	Female	Mean	623	612	
		Std Error	3.3	12.5	
		Sample Size	3	2	
Manby Shore	Male	Mean	623	629	620
		Std Error	6.2	4.0	17.3
		Sample Size	45	104	3
	Female	Mean	635	637	629
		Std Error	5.1	3.0	14.2
		Sample Size	34	95	7
Yahtse	Male	Mean	623	636	626
		Std Error	4.3	4.2	21.3
		Sample Size	102	112	6
	Female	Mean	633	640	630
		Std Error	3.3	2.5	0.0
		Sample Size	69	94	2
Tsiu	Male	Mean	641	646	636
		Std Error	4.8	4.2	16.7
		Sample Size	79	76	7
	Female	Mean	645	645	667
		Std Error	3.5	2.8	9.4
		Sample Size	58	95	5

-Continued-

Table 16. Lengths (mm) of coho salmon from Yakutat area commercial gill net fisheries, by sex and age, 1982¹ (continued).

Fishery	Sex		Age Class		
			3 ₂	4 ₃	5 ₄
Kaliakh	Male	Mean	629	644	700
		Std Error	8.2	5.4	
		Sample Size	31	42	1
	Female	Mean	642	639	
		Std Error	5.2	3.7	
		Sample Size	30	34	

¹ Mid-eye-to-fork length.

Table 17. Age composition of chum salmon from the East Alsek River commercial gill net fishery and escapement, 1982.

	Sample Size	Total	Percent Composition by Brood Year and Age Class			
			1979	1978	1977	1975
			3 ₁	4 ₁	5 ₁	6 ₁
Catch	517	4,731	32.87	50.12	16.83	.19
Escapement	26	3,000	19.20	57.70	23.10	

Table 18. Lengths (mm) of chum salmon from the East Alsek commercial gill net fishery and escapement, by sex and age, 1982¹.

			Age Class			
			3 ₁	4 ₁	5 ₁	6 ₁
Sex						
Catch	Male	Mean	614	650	670	
		Std Error	3.2	2.6	3.9	
		Sample Size	121	161	51	
	Female	Mean	601	629	644	640
		Std Error	3.4	3.6	5.8	
		Sample Size	49	98	36	1
Escapement	Male	Mean	606	646	668	
		Std Error	9.5	10.3	4.4	
		Sample Size	4	4	4	
	Female	Mean	530	593	644	
		Std Error		10.4	21.30	
		Sample Size	1	11	2	

¹ Mid-eye-to-fork length.

LITERATURE CITED

- Brogle, A. 1982. Seasonal summary of Yakutat and Yakataga salmon and shellfish operations. Alaska Department of Fish and Game, Division of Commercial Fisheries. Unpublished report.
- Clutter, R. and L. Whitesel. 1956. Collection and interpretation of sockeye salmon scales. Bull. Int. Pac. Salmon Fish. Comm., No. 9, 15 pp.
- Cochran, W.G. 1977. Sampling techniques, 3rd ed. John Wiley and Sons, Inc. New York. 428 pp.
- Gray, P.L., et al. 1981. The age structure and length-weight relationship of Southeastern Alaska coho salmon (*Oncorhynchus kisutch*), 1969-1970. Alaska Department of Fish and Game, Division of Commercial Fisheries, Informational Leaflet No. 195. 57 pp.
- International North Pacific Fisheries Commission. 1963. Annual Report - 1961. 167 pp.
- Mills, M.J. 1983. Alaska statewide sport fish harvest studies (1982). Alaska Department of Fish and Game. Federal Aid in Fish Restoration Annual Report of Progress, 1982-1983, Project F-9-15, 24 (SW-I-A). 118 pp.
- Yuen, H.J. and K.A. Webster. 1982. Instruction manual for age-weight-length programs. Alaska Department of Fish and Game, Division of Commercial Fisheries. Unpublished manuscript.

APPENDICES

Appendix Table 1. Numbered calendar weeks (statistical weeks) used in reporting commercial catches, 1982.

WEEK NUMBER	FROM	THROUGH
1	JAN 1	JAN 2
2	JAN 3	JAN 9
3	JAN 10	JAN 16
4	JAN 17	JAN 23
5	JAN 24	JAN 30
6	JAN 31	FEB 6
7	FEB 7	FEB 13
8	FEB 14	FEB 20
9	FEB 21	FEB 27
10	FEB 28	MAR 6
11	MAR 7	MAR 13
12	MAR 14	MAR 20
13	MAR 21	MAR 27
14	MAR 28	APR 3
15	APR 4	APR 10
16	APR 11	APR 17
17	APR 18	APR 24
18	APR 25	MAY 1
19	MAY 2	MAY 8
20	MAY 9	MAY 15
21	MAY 16	MAY 22
22	MAY 23	MAY 29
23	MAY 30	JUN 5
24	JUN 6	JUN 12
25	JUN 13	JUN 19
26	JUN 20	JUN 26
27	JUN 27	JUL 3
28	JUL 4	JUL 10
29	JUL 11	JUL 17
30	JUL 18	JUL 24
31	JUL 25	JUL 31
32	AUG 1	AUG 7
33	AUG 8	AUG 14
34	AUG 15	AUG 21
35	AUG 22	AUG 28
36	AUG 29	SEP 4
37	SEP 5	SEP 11
38	SEP 12	SEP 18
39	SEP 19	SEP 25
40	SEP 26	OCT 2
41	OCT 3	OCT 9
42	OCT 10	OCT 16
43	OCT 17	OCT 23
44	OCT 24	OCT 30
45	OCT 31	NOV 6
46	NOV 7	NOV 13
47	NOV 14	NOV 20
48	NOV 21	NOV 27
49	NOV 28	DEC 4
50	DEC 5	DEC 11
51	DEC 12	DEC 18
52	DEC 19	DEC 25
53	DEC 26	DEC 31

Appendix Table 2. East Alsek River commercial set gill net catch of salmon and number of fishermen by period, 1982.

Week Ending	Hours Fished	Number of Fishermen	Number of Fish				
			Chinook	Sockeye	Coho	Pink	Chum
06/12	24	2	41	185			
06/19	24	1	22	9			
06/26	24	2	1	68			
07/03	24	1	3	32			
07/10	48	3	5	192			
07/17	48	12	2	6,871		28	8
07/24	48	9	3	6,245	1	23	3
07/31	48	10	1	3,361	8	57	31
08/07	120	28	1	46,749	8	117	85
08/14	144	32	4	20,935	54	143	164
08/21	96	26		11,199	116	82	446
08/28	72	11		2,279	352	42	1,017
09/04	72	14	1	633	710		1,098
09/11	72	7		56	714	1	917
09/18	72	6		19	531		813
09/25	72	3		4	84		149
Total			84	98,837	2,578	493	4,731

Appendix Table 3. East Alsek and Doame River escapement of salmon, 1982¹.

Number of fish

Date	East Alsek		Doame
	Sockeye	Chum	Coho
08/01	13,000		
08/10	40,000		
08/29	70,000	3,000	
09/19			800
09/26			3,200
10/24	50,000		800
Total	80,000²	3,000²	3,200³

¹ Aerial surveys.

² Estimated total escapement.

³ Minimum estimated escapement. Peak surveys.

Appendix Table 4. East Alsek River commercial gill net catch of chinook salmon, sex and age group by sample period, 1982.

		AGE GROUP			
		4 ₂	5 ₂	6 ₂	TOTAL
SAMPLE PERIOD 1	6/15- 6/28				
PERIOD SAMPLE SIZE	25				
MALE	COUNT	0	13	24	37
	PERCENT	0.00	15.48	28.57	44.05
FEMALE	COUNT	3	10	34	47
	PERCENT	3.57	11.90	40.48	55.95
SEXES COMBINED	COUNT	3	23	58	84
	PERCENT	3.57	27.38	69.05	100.00

Appendix Table 5. East Alsek River commercial gill net catch of sockeye salmon, sex and age by sample period, 1982.

		AGE GROUP						TOTAL	
		3 ₁	4 ₁	4 ₂	5 ₁	5 ₂	5 ₃	6 ₃	
SAMPLE PERIOD 1	6/15- 8/24								
PERIOD SAMPLE SIZE	624								
MALE	COUNT	13,622	29,461	4,435	317	3,168	317	158	51,478
	PERCENT	13.78	29.81	4.49	.32	3.21	.32	.16	52.08
FEMALE	COUNT	3,960	36,905	1,426	158	4,910	0	0	47,359
	PERCENT	4.01	37.34	1.44	.16	4.97	0.00	0.00	47.92
SEXES COMBINED	COUNT	17,582	66,366	5,861	475	8,078	317	158	98,837
	PERCENT	17.79	67.15	5.93	.48	8.17	.32	.16	100.00

Appendix Table 6. East Alsek River escapement of sockeye salmon, sex and age group by sample period, 1982¹.

		AGE GROUP					TOTAL	
		2 ₁	3 ₁	3 ₂	4 ₁	4 ₂	5 ₂	
SAMPLE PERIOD 1 10/ 8-10/ 8								
PERIOD SAMPLE SIZE		539						
MALE	COUNT	148	7,866	0	25,678	1,781	2,375	37,848
	PERCENT	.19	9.83	0.00	32.10	2.23	2.97	47.31
FEMALE	COUNT	0	17,959	148	15,288	5,492	3,265	42,152
	PERCENT	0.00	22.45	.19	19.11	6.86	4.08	52.69
SEXES COMBINED	COUNT	148	25,825	148	40,966	7,273	5,640	80,000
	PERCENT	.19	32.28	.19	51.21	9.09	7.05	100.00

¹ Number of fish derived from peak aerial survey data.

Appendix Table 7. East Alsek River commercial gill net catch of coho salmon, sex and age group by sample period, 1982.

		AGE GROUP			
		3 ₂	4 ₃	5 ₄	TOTAL
SAMPLE PERIOD	1	8/30- 9/21			
PERIOD SAMPLE SIZE		64			
MALE	COUNT	524	845	81	1,450
	PERCENT	20.33	32.78	3.14	56.25
FEMALE	COUNT	645	483	0	1,128
	PERCENT	25.02	18.74	0.00	43.75
SEXES COMBINED	COUNT	1,169	1,328	81	2,578
	PERCENT	45.35	51.51	3.14	100.00

Appendix Table 8. East Alsek River commercial gill net catch of chum salmon, sex and age group by sample period, 1982.

		AGE GROUP				
		3 ₁	4 ₁	5 ₁	6 ₁	TOTAL
SAMPLE PERIOD 1 8/23- 8/30						
PERIOD SAMPLE SIZE 517						
MALE	COUNT	1,107	1,473	467	0	3,047
	PERCENT	23.40	31.14	9.87	0.00	64.40
FEMALE	COUNT	448	898	329	9	1,684
	PERCENT	9.47	18.98	6.95	.19	35.60
SEXES COMBINED	COUNT	1,555	2,371	796	9	4,731
	PERCENT	32.87	50.12	16.83	.19	100.00

Appendix Table 9. East Alsek River escapement of chum salmon, sex and age group by sample period, 1982.

		AGE GROUP			
		3 ₁	4 ₁	5 ₁	TOTAL
SAMPLE PERIOD	1 10/ 8-10/ 8				
PERIOD SAMPLE SIZE	26				
MALE	COUNT	461	462	462	1,385
	PERCENT	15.37	15.40	15.40	46.17
FEMALE	COUNT	115	1,269	231	1,615
	PERCENT	3.83	42.30	7.70	53.83
SEXES COMBINED	COUNT	576	1,731	693	3,000
	PERCENT	19.20	57.70	23.10	100.00

Appendix Table 10. Alesek River commercial set gill net catch of salmon and number of fishermen by period, 1982.

Week Ending	Hours Fished	Number of Fishermen	Number of fish				
			Chinook	Sockeye	Coho	Pink	Chum
06/12	24	22	357	2,508			
06/19	24	24	86	1,181			
06/26	24	19	32	1,951			
07/03	24	19	18	1,357			
07/10	48	22	23	1,606			1
07/17	48	19	10	7,601		1	1
07/24	48	21	2	5,405			
07/31	48	22	2	3,301		1	1
08/07	48	13	1	1,122		1	
08/14	72	13	1	1,155	9	1	1
08/21	72	8		132	19	1	2
08/28	72	8		41	151		4
09/04	72	16		19	583	1	
09/11	72	12		7	834		14
09/18	48	13		3	1,930		155
09/25	72	11			3,008		179
Total			532	27,389	6,534	6	358

Appendix Table 11. Klukshu River escapement of salmon (number of fish) by day and species through the Klukshu weir, 1982.

Date	Chinook	Sockeye	Coho	Date	Chinook	Sockeye	Coho	Date	Chinook	Sockeye	Coho	Date	Chinook	Sockeye	Coho
06/22	2	3		07/24	12	78		08/25	4	407		09/26		3	
06/23	1	3		07/25	37	335		08/26	12	627		09/27		5	
06/24	1	13		07/26	2	130		08/27	3	414		09/28		6	
06/25	6	14		07/27	142	676		08/28	1	70		09/29		4	1
06/26	1	9		07/28	46	166		08/29		3		09/30		62	2
06/27	8	54		07/29	20	40		08/30	2	623		10/01		5	
06/28	24	113		07/30	44	181		08/31	5	1,462		10/02			
06/29	10	116		07/31	3	89		09/01		1,359		10/03			
06/30	18	196		08/01	14	129		09/02		1,870		10/04			
07/01	4	63		08/02	26	53		09/03		691		10/05			
07/02		151		08/03	11	17		09/04		294		10/06			
07/03	2	139		08/04	9	58		09/05		146		10/07		15	3
07/04	4	310		08/05	28	54		09/06		4,516		10/08		4	1
07/05		270		08/06	3			09/07		1,906		10/09			
07/06	46	280		08/07	1	30		09/08		2,047		10/10		2	1
07/07	125	205		08/08	3	60		09/09	2	1,867		10/11		4	1
07/08	213	254		08/09	7	30		09/10	1	1,385		10/12		11	1
07/09	6	52		08/10	1	4		09/11		83		10/13		264	126
07/10	8	44		08/11	1	5		09/12		250		10/14		2	3
07/11	8	143		08/12	16	70		09/13		331	1	10/15		1	
07/12	3	73		08/13	10	66		09/14	1	1,354		10/16			
07/13	159	538		08/14	1	25		09/15		1,708	1	10/17			
07/14	124	368		08/15	1	76		09/16		197	1	10/18		5	
07/15	152	186		08/16	4	17		09/17	1	89	6	10/19		4	4
07/16	63	150		08/17		28		09/18		3		10/20		4	4
07/17	12	129		08/18	3	168		09/19		108		10/21			4
07/18	25	57		08/19	5	78		09/20		47	1				
07/19	75	270		08/20		31		09/21		148	21				
07/20	506	594		08/21	2	19		09/22		129	7				
07/21	163	337		08/22	2	56		09/23		1					
07/22	84	188		08/23	6	117		09/24		15					
07/23	21	140		08/24	3	800		09/25							
												<hr/> Total 2,369 33,699 189			

Appendix Table 12. Alsek River escapement of salmon, 1982¹.

Area	Period Dates	Number of fish				
		Chinook	Sockeye	Coho	Pink	Chum
Klukshu Weir	06/22-10/21	2,369	33,699	189		
Tanis River ³	08/11		2,000			
	09/19		1,200 ²			
	10/24			400		
Cabin Creek ³	09/19		200	80		
	10/24			450		
Basin Creek ³	09/19		500			
	10/14			150		

¹ All data are peak aerial surveys except for Klukshu Weir counts. These aerial surveys are peak counts and do not represent complete enumeration of escapement to that stream. Also, not all spawning tributaries in the Alsek River system are surveyed. For these reasons, these numbers are considered indices of escapement.

² Poor light.

³ Aerial surveys.

Appendix Table 13. Alsek River commercial gill net catch of chinook salmon, sex and age group by sample period, 1982.

		AGE GROUP					
		4 ₁	4 ₂	5 ₂	6 ₂	7 ₂	TOTAL
SAMPLE PERIOD 1 6/15- 7/ 5							
PERIOD SAMPLE SIZE 77							
MALE	COUNT	0	76	90	117	7	290
	PERCENT	0.00	14.29	16.92	21.99	1.32	54.51
FEMALE	COUNT	7	28	97	110	0	242
	PERCENT	1.32	5.26	18.23	20.68	0.00	45.49
SEXES COMBINED	COUNT	7	104	187	227	7	532
	PERCENT	1.32	19.55	35.15	42.67	1.32	100.00

Appendix Table 14. Klukshu River escapement of chinook salmon, sex and age group by sample period, 1982.

		AGE GROUP				TOTAL
		4 ₂	5 ₁	5 ₂	6 ₂	
SAMPLE PERIOD 1 7/ 3- 8/29						
PERIOD SAMPLE SIZE 93						
MALE	COUNT	408	0	611	637	1,656
	PERCENT	17.22	0.00	25.79	26.89	69.90
FEMALE	COUNT	51	25	357	280	713
	PERCENT	2.15	1.06	15.07	11.82	30.10
SEXES COMBINED	COUNT	459	25	968	917	2,369
	PERCENT	19.38	1.06	40.86	38.71	100.00

Appendix Table 15. Alsek River commercial gill net catch of sockeye salmon, sex and age group by sample period, 1982.

		AGE GROUP								
		3 ₁	4 ₁	4 ₂	5 ₁	5 ₂	5 ₃	6 ₂	6 ₃	TOTAL
SAMPLE PERIOD 1 6/15- 7/ 6										
PERIOD SAMPLE SIZE		734								
MALE	COUNT	47	70	539	0	3,317	47	35	340	4,395
	PERCENT	.55	.81	6.27	0.00	38.56	.55	.41	3.95	51.09
FEMALE	COUNT	0	94	352	0	3,445	47	12	258	4,208
	PERCENT	0.00	1.09	4.09	0.00	40.04	.55	.14	3.00	48.91
SEXES COMBINED	COUNT	47	164	891	0	6,762	94	47	598	8,603
	PERCENT	.55	1.91	10.36	0.00	78.60	1.09	.55	6.95	100.00
SAMPLE PERIOD 2 7/12- 8/11										
PERIOD SAMPLE SIZE		822								
MALE	COUNT	160	343	1,851	0	4,617	274	0	571	7,816
	PERCENT	.85	1.83	9.85	0.00	24.58	1.46	0.00	3.04	41.61
FEMALE	COUNT	0	526	1,554	23	7,998	183	0	686	10,970
	PERCENT	0.00	2.80	8.27	.12	42.57	.97	0.00	3.65	58.39
SEXES COMBINED	COUNT	160	869	3,405	23	12,615	457	0	1,257	18,786
	PERCENT	.85	4.63	18.13	.12	67.15	2.43	0.00	6.69	100.00
PERIODS COMBINED										
SAMPLE SIZES COMBINED		1,556								
MALE	COUNT	207	413	2,390	0	7,934	321	35	911	12,211
	PERCENT	.76	1.51	8.73	0.00	28.97	1.17	.13	3.33	44.58
FEMALE	COUNT	0	620	1,906	23	11,443	230	12	944	15,178
	PERCENT	0.00	2.26	6.96	.08	41.78	.84	.04	3.45	55.42
SEXES COMBINED	COUNT	207	1,033	4,296	23	19,377	551	47	1,855	27,389
	PERCENT	.76	3.77	15.69	.08	70.75	2.01	.17	6.77	100.00

Appendix Table 16. Klukshu River escapement of sockeye salmon, sex and age group by sample period, 1982.

		AGE GROUP				
		4 ₁	4 ₂	5 ₂	6 ₃	TOTAL
SAMPLE PERIOD	1 7/ 5- 9/25					
PERIOD	SAMPLE SIZE	394				
MALE	COUNT	342	342	17,021	171	17,876
	PERCENT	1.01	1.01	50.51	.51	53.05
FEMALE	COUNT	0	684	14,711	428	15,823
	PERCENT	0.00	2.03	43.65	1.27	46.95
SEXES COMBINED	COUNT	342	1,026	31,732	599	33,699
	PERCENT	1.01	3.04	94.16	1.78	100.00

Appendix Table 17. Alesek River commercial gill net catch of coho salmon, sex and age group by sample period, 1982.

		AGE GROUP			
		3 ₂	4 ₃	5 ₄	TOTAL
SAMPLE PERIOD 1	8/24- 9/22				
PERIOD SAMPLE SIZE	289				
MALE	COUNT	1,809	1,990	45	3,844
	PERCENT	27.69	30.46	.69	58.83
FEMALE	COUNT	972	1,650	68	2,690
	PERCENT	14.88	25.25	1.04	41.17
SEXES COMBINED	COUNT	2,781	3,640	113	6,534
	PERCENT	42.56	55.71	1.73	100.00

Appendix Table 18. Akwe River commercial set gill net catch of salmon, number of hours fished, and number of fishermen, by period, 1982.

Week Ending	Hours Fished	Number of Fishermen	Number of fish				
			Chinook	Sockeye	Coho	Pink	Chum
07/03	12	4	59	738			
07/10	24	6	64	1,235			2
07/17	24	5	2	932	1	1	5
07/24	24	5	4	1,227		16	19
07/31	24	5		338		19	12
08/07	24	3		471	10	79	11
08/14	0						
08/21	72	1		22	14	13	3
08/28	72	3		6	163		6
09/04	72	4		2	949		9
09/11	72	2			438	1	7
09/18	48	4			2,440		1
09/25	48	5			2,999		7
10/02	48	4		360	3,571		
Total			129	5,331	10,585	129	82

Appendix Table 19. Akwe River escapement indices of salmon, 1982^{1 2}.

Date	Chinook	Sockeye	Coho	Pink	Chum
07/13		2,000 ³			
08/22	20	8,000			
09/11			2,000 ⁴		
09/19			2,000 ^{3 5}		
09/20			3,000 ⁵		
10/24			2,000		
Total	20	8,000	3,000		

¹ Aerial surveys.

² Total enumeration is not possible due to glacial siltation. These data are peak counts.

³ Above marker.

⁴ Below marker.

⁵ Poor light.

Appendix Table 20. Akwe River commercial gill net catch of chinook salmon, sex and age group by sample period, 1982.

		AGE GROUP				
		3 ₂	4 ₂	5 ₂	6 ₂	TOTAL
SAMPLE PERIOD 1 6/28- 7/13						
PERIOD SAMPLE SIZE		50				
MALE	COUNT	3	56	39	5	103
	PERCENT	2.33	43.41	30.23	3.88	79.84
FEMALE	COUNT	0	3	13	10	26
	PERCENT	0.00	2.33	10.08	7.75	20.16
SEXES COMBINED	COUNT	3	59	52	15	129
	PERCENT	2.33	45.74	40.31	11.63	100.00

Appendix Table 21. Akwe River commercial gill net catch of sockeye salmon, sex and age group by sample period, 1982.

		AGE GROUP								
		3 ₁	4 ₁	4 ₂	5 ₁	5 ₂	5 ₃	6 ₃	6 ₄	TOTAL
SAMPLE PERIOD 1 6/28- 8/ 3										
PERIOD SAMPLE SIZE		527								
MALE	COUNT	668	930	455	10	486	10	51	0	2,610
	PERCENT	12.53	17.45	8.53	.19	9.12	.19	.96	0.00	48.96
FEMALE	COUNT	91	1,458	212	20	880	10	40	10	2,721
	PERCENT	1.71	27.35	3.98	.38	16.51	.19	.75	.19	51.04
SEXES COMBINED	COUNT	759	2,388	667	30	1,366	20	91	10	5,331
	PERCENT	14.24	44.79	12.51	.56	25.62	.38	1.71	.19	100.00

Appendix Table 22. Akwe River escapement of sockeye salmon, sex and age group by sample period, 1982.

		AGE GROUP						
		3 ₁	4 ₁	4 ₂	5 ₂	5 ₃	6 ₃	TOTAL
ARWE LAKE OULET								
PERIOD	SAMPLE SIZE	81						
MALES	PERCENT	21.00	8.60	6.20	0.00	0.00	0.00	35.80
FEMALES	PERCENT	2.50	56.80	0.00	4.90	0.00	0.00	64.20
SEXES COMBINED	PERCENT	23.50	65.40	6.20	4.90	0.00	0.00	100.00
ARWE LAKE INLET								
PERIOD	SAMPLE SIZE	25						
MALES	PERCENT	12.00	0.00	4.00	20.00	4.00	0.00	40.00
FEMALES	PERCENT	0.00	8.00	8.00	24.00	4.00	16.00	60.00
SEXES COMBINED	PERCENT	12.00	8.00	12.00	44.00	8.00	16.00	100.00
PERIODS COMBINED								
PERIOD	SAMPLE SIZES COMBINED	106						
MALES	PERCENT	16.50	4.30	5.10	10.00	2.00	0.00	37.90
FEMALES	PERCENT	1.25	32.40	4.00	14.45	2.00	8.00	62.10
SEXES COMBINED	PERCENT	17.75	36.70	9.10	24.45	4.00	8.00	100.00

Appendix Table 23. Akwe River commercial gill net catch of coho salmon, sex and age group by sample period, 1982.

		AGE GROUP			
		3 ₂	4 ₃	5 ₄	TOTAL
SAMPLE PERIOD 1 8/24- 9/29					
PERIOD SAMPLE SIZE 339					
MALE	COUNT	3,215	3,154	219	6,588
	PERCENT	30.37	29.80	2.07	62.24
FEMALE	COUNT	1,811	2,124	62	3,997
	PERCENT	17.11	20.07	.59	37.76
SEXES COMBINED	COUNT	5,026	5,278	281	10,585
	PERCENT	47.48	49.86	2.65	100.00

Appendix Table 24. Itatio River commercial set gill net catch of salmon, number of hours fished, and number of fishermen, by period, 1982.

Week Ending	Hours Fished	Number of Fishermen	Number of fish				
			Chinook	Sockeye	Coho	Pink	Chum
07/10	60	1	3	578		1	2
07/17	60	1		737			2
07/24	60	2	1	674	1	3	
07/31	60	1		292	14	13	39
08/07	60	1		505	2	188	126
08/14	72	1		32	10	28	105
08/21	72	1		72	77	28	156
08/28	72	1	2	34	302	23	157
09/04	72	1		7	597	2	14
09/11	72	3			283	1	4
09/18	72	3			1,551		3
09/25	72	4			1,731		1
10/02	72	4			2,372		1
Total			6	2,931	6,940	287	610

Appendix Table 25. Italo River escapement of salmon, 1982¹.

Number of fish						
Area	Date	Chinook	Sockeye	Coho	Pink	Chum
Lake	07/10		1,500			
	07/25		8,000			
	08/29		9,000			
	09/19		4,000			
River	08/29				3,000	1,000
	09/11			500		
	09/19			5,000		
Old Italo	10/04			1,500		
	10/04			450		
	10/24			350		
Total			9,000	5,800	3,000	1,000

¹ Aerial surveys.

² Old fish.

³ Fresh fish.

⁴ Minimum estimated escapement. Peak surveys.

⁵ Estimate derived from addition of surveys as follows:

Main Italo	09/19	5,000
Old Italo	10/04	450
Old Italo	10/24	<u>350</u>
		5,800

Appendix Table 26. Itatio River commercial gill net catch of sockeye salmon, sex and age group by sample period, 1982.

		AGE GROUP							
		3 ₁	4 ₁	4 ₂	5 ₂	5 ₃	6 ₂	6 ₃	TOTAL
SAMPLE PERIOD 1 7/ 6- 7/28									
PERIOD SAMPLE SIZE		386							
MALE	COUNT	91	251	266	690	53	8	76	1,435
	PERCENT	3.10	8.56	9.08	23.54	1.81	.27	2.59	48.96
FEMALE	COUNT	8	402	213	812	15	0	46	1,496
	PERCENT	.27	13.72	7.27	27.70	.51	0.00	1.57	51.04
SEXES COMBINED	COUNT	99	653	479	1,502	68	8	122	2,931
	PERCENT	3.38	22.28	16.34	51.25	2.32	.27	4.16	100.00

Appendix Table 27. Itatio River escapement of sockeye salmon, sex and age group by sample period, 1982¹.

		AGE GROUP								
		3 ₁	3 ₂	4 ₁	4 ₂	5 ₂	5 ₃	6 ₃	7 ₄	TOTAL
SAMPLE PERIOD 1	9/ 4-									
PERIOD SAMPLE SIZE	9/ 4									
		388								
MALE	COUNT	0	93	23	1,415	2,691	139	278	23	4,662
	PERCENT	0.00	1.03	.26	15.72	29.90	1.54	3.09	.26	51.80
FEMALE	COUNT	23	0	0	1,229	2,762	162	162	0	4,338
	PERCENT	.26	0.00	0.00	13.66	30.69	1.80	1.80	0.00	48.20
SEXES COMBINED	COUNT	23	93	23	2,644	5,453	301	440	23	9,000
	PERCENT	.26	1.03	.26	29.38	60.59	3.34	4.89	.26	100.00

¹ Number of fish derived from peak aerial survey data.

Appendix Table 28. Italo River commercial gill net catch of coho salmon, sex and age group by sample period, 1982.

		AGE GROUP			
		3 ₂	4 ₃	5 ₄	TOTAL
SAMPLE PERIOD 1 8/19- 9/28					
PERIOD SAMPLE SIZE 327					
MALE	COUNT	1,847	1,740	85	3,672
	PERCENT	26.61	25.07	1.22	52.91
FEMALE	COUNT	1,592	1,612	64	3,268
	PERCENT	22.94	23.23	.92	47.09
SEXES COMBINED	COUNT	3,439	3,352	149	6,940
	PERCENT	49.55	48.30	2.15	100.00

Appendix Table 29. Situk River commercial set gill net catch of salmon, number of hours fished, and number of fishermen, by period, 1982.

Week Ending	Hours Fished	Number of Fishermen	Number of fish					
			Chinook	Sockeye	Coho	Pink	Chum	
06/26	36	30	35	4,435				
07/03	36	30	69	6,011	2	7	2	
07/10	36	33	53	2,921	7	3		
07/17	36	36	56	4,213	2	48		
07/24	60	33	23	4,119	10	309	6	
07/31	60	31	9	3,489	90	894	14	
08/07	72	35	2	3,078	47	1,721	8	
08/14	72	22	1	725	203	411	9	
08/21	72	20		523	1,305	906	29	
08/28	72	21		168	2,248	136	40	
09/04	72	28		61	5,745	27	11	
09/11	72	24		5	4,755	6	6	
09/18	72	27		3	6,879	7	8	
09/25	96	26			4,282	7	5	
10/02	96	23			1,974		2	
Total			248	29,751	27,549	4,482	140	

Appendix Table 30. Situk River escapement of salmon by day and species through the Situk weir, 1982.

Date	Chinook			Number of fish		
	1	2	Total	Sockeye	Pink	Chum
06/12				1		
06/13				2		
06/14				6		
06/15				9		
06/16				29		
06/17				7		
06/18	1		1	332		
06/19				1,204		
06/20				667		
06/21				329		
06/22	1		1	642		
06/23				1,029		
06/24				1,017		
06/25				1,145		
06/26				1,001		
06/27	2		2	1,674		
06/28				849		
06/29	6	1	7	2,700		
06/30	2	1	3	1,123		

-Continued-

Appendix Table 30. Situk River escapement of salmon by day and species through the Situk weir, 1982 (continued).

Date	Chinook			Number of fish		
	1	2	Total	Sockeye	Pink	Chum
07/01	1		1	1,236		
07/02	5	1	6	2,512		
07/03	9	1	10	1,989		
07/04				301		
07/05	4	4	8	4,040	1	
07/06	1		1	3,676	1	
07/07	4	3	7	2,851		
07/08	3	3	6	2,441	1	
07/09		4	4	2,202		
07/10		3	3	1,923		
07/11	4	5	9	1,427	2	
07/12	3	7	10	1,812		
07/13	11	7	18	5,016		3
07/14		2	2	1,761		
07/15	2	2	4	1,418		
07/16	4	2	6	1,206	3	
07/17	1		1	1,868	1	
07/18	1	4	5	1,914	2	
07/19	7	6	13	1,369	4	1
07/20	2	1	3	1,009	1	
07/21	2	5	7	2,515	13	
07/22	10	6	16	1,501	25	
07/23	3	5	8	1,443	10	
07/24		5	5	937	6	2
07/25				605	6	
07/26	10	9	19	2,354	57	
07/27	14	8	22	1,007	127	
07/28	15	7	22	1,391	283	
07/29						
07/30	5	1	6	365	14	
07/31	4/ 5	5	10	626	37	

-Continued-

Appendix Table 30. Situk River escapement of salmon by day and species through the Situk weir, 1982 (continued).

Date	Chinook		Total	Number of fish		
	¹	²		Sockeye	Pink	Chum
08/01	1	1	2	335	18	
08/02	4	2	6	637	198	
08/03	13	4	17	574	439	
08/04		1	1	354	119	
08/05				47	11	
08/06		3	3	415	116	
08/07						
08/08	100	21	121	2,900	6,144	
08/09	28	3	31	591	2,462	
08/10	6		6	119	311	
08/11	4		4	8	29	
08/12	1		1	3	20	1
08/13	20	9	29	164	143	
08/14	1		1	3	72	
08/15	9	6	15	94	1,303	
08/16	7	5	12	186	3,374	
08/17	7	2	9	120	1,854	
08/18	10	3	13	124	2,296	
08/19	10	1	11	48	2,094	
08/20	11	1	12	123	3,316	
08/21	14	1	15	63	3,341	
08/22	12	4	16	63	3,702	2
08/23	22	1	23	23	5,500	
08/24	16	1	17	26	2,755	
Total	434	177	611	75,511	40,382	9

¹ Larger chinook salmon.

² Smaller, presumably male, chinook salmon (approx. 4-12 lbs)

³ Weir installed 5/12/83. A total of 905 steelhead trout were counted through the weir.

⁴ Bear damage, hole in weir.

Appendix Table 31. Situk River escapement of salmon by site and species, 1982.

Area	Period Dates	Number of fish				
		Chinook	Sockeye	Coho	Pink	Chum
Weir	06/12-08/10	611	75,511		40,382	9
Main Situk ¹ (below weir)	09/04			7,290		
	09/10			4,970 ²		
	09/19			9,180 ³		
	10/27			3,300		
Old Situk ¹	08/10		5,000 ⁵			
	10/06			1,070 ³		
Ahrnklin River ¹	09/28			2,000 ⁴		
Total		611	80,511	15,550⁶	40,382	9

¹ Boat surveys.

² Poor light.

³ Excellent light.

⁴ Index areas only.

⁵ Old Situk River.

⁶ Index only. Only a small part of the Ahrnklin River is surveyed.
Number derived from addition of surveys as follows:

Main Situk	09/19	9,180
Main Situk	10/27	3,300
Old Situk	10/06	1,070
Ahrnklin R.	09/28	<u>2,000</u>
		15,550

Appendix Table 32. Situk River commercial gill net catch of chinook salmon, sex and age group by sample period, 1982.

		AGE GROUP			
		4 ₂	5 ₂	6 ₂	TOTAL
SAMPLE PERIOD 1	6/21- 7/26				
PERIOD SAMPLE SIZE	17				
MALE	COUNT	44	73	73	190
	PERCENT	17.74	29.44	29.44	76.61
FEMALE	COUNT	0	0	58	58
	PERCENT	0.00	0.00	23.39	23.39
SEXES COMBINED	COUNT	44	73	131	248
	PERCENT	17.74	29.44	52.82	100.00

Appendix Table 33. Situk River sport catch of chinook salmon, sex and age group by sample period, 1982.

		AGE GROUP					TOTAL
		4 ₁	4 ₂	5 ₂	6 ₂	7 ₂	
SAMPLE PERIOD 1	6/19- 7/ 5						
PERIOD SAMPLE SIZE	56						
MALE	COUNT	1	7	8	0	0	16
	PERCENT	1.59	11.11	12.70	0.00	0.00	25.40
FEMALE	COUNT	8	6	16	15	2	47
	PERCENT	12.70	9.52	25.40	23.81	3.17	74.60
SEXES COMBINED	COUNT	9	13	24	15	2	63
	PERCENT	14.29	20.63	38.10	23.81	3.17	100.00

Appendix Table 34. Situk River gill net catch of sockeye salmon, sex and age group by sample period, 1982.

		AGE GROUP										
		3 ₁	4 ₁	4 ₂	5 ₁	5 ₂	5 ₃	6 ₂	6 ₃	6 ₄	7 ₄	TOTAL
SAMPLE PERIOD 1 6/21- 7/ 5												
PERIOD SAMPLE SIZE		565										
MALE	COUNT	95	260	757	0	2,414	733	0	1,490	0	0	5,749
	PERCENT	.71	1.95	5.66	0.00	18.06	5.48	0.00	11.15	0.00	0.00	43.01
FEMALE	COUNT	95	379	402	0	4,069	308	47	2,271	47	0	7,618
	PERCENT	.71	2.84	3.01	0.00	30.44	2.30	.35	16.99	.35	0.00	56.99
SEXES COMBINED	COUNT	190	639	1,159	0	6,483	1,041	47	3,761	47	0	13,367
	PERCENT	1.42	4.78	8.67	0.00	48.50	7.79	.35	28.14	.35	0.00	100.00
SAMPLE PERIOD 2 7/12- 8/ 9												
PERIOD SAMPLE SIZE		739										
MALE	COUNT	155	798	665	22	2,794	798	0	2,594	22	89	7,937
	PERCENT	.95	4.87	4.06	.13	17.05	4.87	0.00	15.83	.13	.54	48.44
FEMALE	COUNT	22	643	421	0	3,903	355	0	3,037	22	44	8,447
	PERCENT	.13	3.92	2.57	0.00	23.82	2.17	0.00	18.54	.13	.27	51.56
SEXES COMBINED	COUNT	177	1,441	1,086	22	6,697	1,153	0	5,631	44	133	16,384
	PERCENT	1.08	8.80	6.63	.13	40.88	7.04	0.00	34.37	.27	.81	100.00
PERIODS COMBINED												
SAMPLE SIZES COMBINED		1,304										
MALE	COUNT	250	1,058	1,422	22	5,208	1,531	0	4,084	22	89	13,685
	PERCENT	.84	3.56	4.78	.07	17.51	5.15	0.00	13.73	.07	.30	46.00
FEMALE	COUNT	117	1,022	823	0	7,972	663	47	5,308	69	44	16,066
	PERCENT	.39	3.44	2.77	0.00	26.80	2.23	.16	17.84	.23	.15	54.00
SEXES COMBINED	COUNT	367	2,080	2,245	22	13,180	2,194	47	9,392	91	133	29,751
	PERCENT	1.23	6.99	7.55	.07	44.30	7.37	.16	31.57	.31	.45	100.00

Appendix Table 35. Situk River escapement of sockeye salmon, sex and age group by sample period, 1982.

		AGE GROUP								TOTAL
		4 ₁	4 ₂	4 ₃	5 ₂	5 ₃	6 ₃	6 ₄	7 ₄	
SAMPLE PERIOD 1 6/18- 7/ 6										
PERIOD SAMPLE SIZE 457										
MALE	COUNT	0	2,288	0	4,275	2,349	4,095	241	60	13,308
	PERCENT	0.00	8.31	0.00	15.53	8.54	14.88	.88	.22	48.36
FEMALE	COUNT	60	602	0	7,589	1,325	4,516	60	60	14,212
	PERCENT	.22	2.19	0.00	27.58	4.81	16.41	.22	.22	51.64
SEXES COMBINED	COUNT	60	2,890	0	11,864	3,674	8,611	301	120	27,520
	PERCENT	.22	10.50	0.00	43.11	13.35	31.29	1.09	.44	100.00
SAMPLE PERIOD 2 7/ 7- 7/24										
PERIOD SAMPLE SIZE 632										
MALE	COUNT	304	3,265	76	6,682	4,252	6,303	532	0	21,414
	PERCENT	.63	6.80	.16	13.92	8.86	13.13	1.11	0.00	44.62
FEMALE	COUNT	228	2,430	0	12,376	2,886	8,201	456	0	26,577
	PERCENT	.48	5.06	0.00	25.79	6.01	17.09	.95	0.00	55.38
SEXES COMBINED	COUNT	532	5,695	76	19,058	7,138	14,504	988	0	47,991
	PERCENT	1.11	11.87	.16	39.71	14.87	30.22	2.06	0.00	100.00
PERIODS COMBINED										
SAMPLE SIZES COMBINED 1,089										
MALE	COUNT	304	5,553	76	10,957	6,601	10,398	773	60	34,722
	PERCENT	.40	7.35	.10	14.51	8.74	13.77	1.02	.08	45.98
FEMALE	COUNT	288	3,032	0	19,965	4,211	12,717	516	60	40,789
	PERCENT	.38	4.02	0.00	26.44	5.58	16.84	.68	.08	54.02
SEXES COMBINED	COUNT	592	8,585	76	30,922	10,812	23,115	1,289	120	75,511
	PERCENT	.78	11.37	.10	40.95	14.32	30.61	1.71	.16	100.00

Appendix Table 36. Situk River commercial gill net catch of coho salmon, sex and age group by sample period, 1982.

		AGE GROUP			
		3 ₂	4 ₃	5 ₄	TOTAL
SAMPLE PERIOD 1	8/ 9- 9/30				
PERIOD SAMPLE SIZE	474				
MALE	COUNT	7,381	7,149	407	14,937
	PERCENT	26.79	25.95	1.48	54.22
FEMALE	COUNT	6,567	5,638	407	12,612
	PERCENT	23.84	20.47	1.48	45.78
SEXES COMBINED	COUNT	13,948	12,787	814	27,549
	PERCENT	50.63	46.42	2.95	100.00

Appendix Table 37. Lost River commercial set gill net catch of salmon, hours fished, and number of fishermen, by period, 1982.

Week Ending	Hours Fished	Number of Fishermen	Number of fish				
			Chinook	Sockeye	Coho	Pink	Chum
06/26	36	4	1	250			
07/03	36	4	4	783			
07/10	36	4	3	831			
07/17	36	4	3	871		9	2
07/24	60	4		581		16	
07/31	60	4		46	1		
08/07	72	4	1	1,285	2	480	
08/14	72	4		76	58	52	
08/21	72	2		127	105	58	2
08/28	72	3		111	442	96	5
09/04	72	4		16	2,473	8	2
09/11	72	4		1	952		
09/18	72	4		1	2,116		2
09/25	96	3		1	1,696		1
10/02	96	3			1,521		
Total			12	4,980	9,366	719	14

Appendix Table 38. Lost River escapement of salmon, by date and species, 1982^{1 2 3}.

Date	Chinook	Sockeye	Coho	Pink	Chum
		6,000 ⁴			
10/05			7,100 ⁵		
10/23			3,500 ^{5 6}		
Total		6,000	7,800⁷		

¹ Boat surveys.

² Includes Lost River, Ophir Creek, Tawah Creek, and Coast Guard Lake.

³ Minimum estimated escapement. Peak surveys.

⁴ Includes 3,000 fish in Ophir Creek and 3,000 fish in Coast Guard Lake.

⁵ Includes Ophir Creek, Tawah Creek, and Lost River.

⁶ Includes 700 fresh coho in Tawah Creek.

⁷ Estimate derived from addition of surveys as follows:

10/05	7,100
10/23	<u>700⁶</u>
	7,800

Appendix Table 39. Lost River commercial gill net catch of sockeye salmon, sex and age group by sample period, 1982.

		AGE GROUP							TOTAL
		3 ₁	4 ₁	4 ₂	5 ₂	5 ₃	6 ₃	6 ₄	
SAMPLE PERIOD	1								
	7/21- 8/17								
PERIOD SAMPLE SIZE									311
MALE	COUNT	16	128	496	802	352	496	16	2,306
	PERCENT	.32	2.57	9.96	16.10	7.07	9.96	.32	46.31
FEMALE	COUNT	0	240	224	1,474	176	560	0	2,674
	PERCENT	0.00	4.82	4.50	29.60	3.53	11.24	0.00	53.69
SEXES COMBINED	COUNT	16	368	720	2,276	528	1,056	16	4,980
	PERCENT	.32	7.39	14.46	45.70	10.60	21.20	.32	100.00

Appendix Table 40. Lost River escapement of sockeye salmon, sex and age group by sample period, 1982¹.

		AGE GROUP							TOTAL	
		3 ₁	3 ₂	4 ₁	4 ₂	4 ₃	5 ₂	5 ₃	6 ₃	
SAMPLE PERIOD 1 10/ 5-10/ 6										
PERIOD SAMPLE SIZE 220										
MALE	COUNT	545	218	136	737	55	545	55	82	2,373
	PERCENT	9.08	3.63	2.27	12.28	.92	9.08	.92	1.37	39.55
FEMALE	COUNT	900	0	300	1,664	0	518	218	27	3,627
	PERCENT	15.00	0.00	5.00	27.73	0.00	8.63	3.63	.45	60.45
SEXES COMBINED	COUNT	1,445	218	436	2,401	55	1,063	273	109	6,000
	PERCENT	24.08	3.63	7.27	40.02	.92	17.72	4.55	1.82	100.00

¹ Number of fish derived from peak aerial survey data.

Appendix Table 41. Lost River commercial gill net catch of coho salmon, sex and age group by sample period, 1982.

		AGE GROUP			
		3 ₂	4 ₃	5 ₄	TOTAL
SAMPLE PERIOD 1 8/17- 9/30					
PERIOD SAMPLE SIZE 384					
MALE	COUNT	3,293	1,756	24	5,073
	PERCENT	35.16	18.75	.26	54.16
FEMALE	COUNT	2,683	1,610	0	4,293
	PERCENT	28.65	17.19	0.00	45.84
SEXES COMBINED	COUNT	5,976	3,366	24	9,366
	PERCENT	63.81	35.94	.26	100.00

Appendix Table 42. Yakutat Bay commercial set gill net catch of salmon, hours fished, and number of fishermen, by period, 1982.

Week Ending	Hours Fished	Number of Fishermen	Number of Fish				
			Chinook	Sockeye	Coho	Pink	Chum
06/19	60	19	153	4,226	522	2	
06/26	36	18	27	2,268		2	3
07/03	36	19	43	2,088	5	6	45
07/10	36	12	56	1,045	66	12	31
07/17	36	20	16	3,656	207	171	82
07/24	60	18	32	1,861	491	264	12
07/31	60	16	47	708	523	199	8
08/07	72	22	20	5,992	319	1,973	25
08/14	72	23	11	1,130	574	433	11
08/21	72	18	13	1,302	860	598	42
08/28	72	6		53	126	26	5
09/04	72	1		1	126		5
09/11	72	1			238		
09/18	72	3	1		99	2	
09/25	72	1			90		
10/02	72	3			237		
Total			419	24,330	4,483	3,688	269

Appendix Table 43. Yakutat Bay escapement of salmon by area and species, 1982^{1 2}.

Area	Date	Chinook	Sockeye	Coho	Pink	Chum
Humpy Creek	9/16				8,700	
	10/09			80	500	
Pudget Cove Creek	10/12			35 ³		
White Alice Creek	10/13			142		
Canoe Pass #1	10/14			228		
Canoe Pass #2	10/14			55 ³		
Knight Island, Strawberry Creek				15 ³		

¹ Boat surveys.

² Peak surveys. These data are considered indices of escapement; not a total enumeration.

³ Past peak of spawning.

Appendix Table 44. Yakutat Bay commercial gill net catch of chinook salmon, sex and age group by sample period, 1982.

		AGE GROUP					
		3 ₁	4 ₁	4 ₂	5 ₂	6 ₂	TOTAL
SAMPLE PERIOD 1 6/16- 7/28							
PERIOD SAMPLE SIZE 42							
MALE	COUNT	10	10	90	119	90	319
	PERCENT	2.39	2.39	21.48	28.40	21.48	76.13
FEMALE	COUNT	10	10	20	50	10	100
	PERCENT	2.39	2.39	4.77	11.93	2.39	23.87
SEXES COMBINED	COUNT	20	20	110	169	100	419
	PERCENT	4.77	4.77	26.25	40.33	23.87	100.00

Appendix Table 45. Yakutat Bay commercial gill net catch of sockeye salmon, sex and age group by sample period, 1982¹.

		AGE GROUP										
		3 ₁	4 ₁	4 ₂	5 ₁	5 ₂	5 ₃	6 ₃	6 ₄	7 ₄	TOTAL	
SAMPLE PERIOD 1 6/16- 7/13												
PERIOD SAMPLE SIZE		323										
MALE	COUNT	247	1,193	699	41	3,413	164	864	0	0	6,621	
	PERCENT	1.86	8.98	5.26	.31	25.69	1.23	6.50	0.00	0.00	49.85	
FEMALE	COUNT	0	1,151	164	0	4,114	123	1,069	0	41	6,662	
	PERCENT	0.00	8.67	1.23	0.00	30.97	.93	8.05	0.00	.31	50.15	
SEXES COMBINED	COUNT	247	2,344	863	41	7,527	287	1,933	0	41	13,283	
	PERCENT	1.86	17.65	6.50	.31	56.67	2.16	14.55	0.00	.31	100.00	
SAMPLE PERIOD 2 7/20- 8/19												
PERIOD SAMPLE SIZE		335										
MALE	COUNT	429	3,495	495	0	956	0	429	0	0	5,804	
	PERCENT	3.88	31.64	4.48	0.00	8.65	0.00	3.88	0.00	0.00	52.54	
FEMALE	COUNT	132	2,835	330	0	1,616	66	231	33	0	5,243	
	PERCENT	1.19	25.66	2.99	0.00	14.63	.60	2.09	.30	0.00	47.46	
SEXES COMBINED	COUNT	561	6,330	825	0	2,572	66	660	33	0	11,047	
	PERCENT	5.08	57.30	7.47	0.00	23.28	.60	5.97	.30	0.00	100.00	
PERIODS COMBINED												
SAMPLE SIZES COMBINED		658										
MALE	COUNT	676	4,688	1,194	41	4,369	164	1,293	0	0	12,425	
	PERCENT	2.78	19.27	4.91	.17	17.96	.67	5.31	0.00	0.00	51.07	
FEMALE	COUNT	132	3,986	494	0	5,730	189	1,300	33	41	11,905	
	PERCENT	.54	16.38	2.03	0.00	23.55	.78	5.34	.14	.17	48.93	
SEXES COMBINED	COUNT	808	8,674	1,688	41	10,099	353	2,593	33	41	24,330	
	PERCENT	3.32	35.65	6.94	.17	41.51	1.45	10.66	.14	.17	100.00	

¹ Data divided into two sample periods. Sample sizes not adequate to meet desired precision level.

Appendix Table 46. Yakutat Bay commercial gill net catch of coho salmon, sex and age group by sample period, 1982.

		AGE GROUP			
		3 ₂	4 ₃	5 ₄	TOTAL
SAMPLE PERIOD	1	7/28- 8/19			
PERIOD SAMPLE SIZE		27			
MALE	COUNT	1,660	1,827	166	3,653
	PERCENT	37.03	40.75	3.70	81.49
FEMALE	COUNT	498	332	0	830
	PERCENT	11.11	7.41	0.00	18.51
SEXES COMBINED	COUNT	2,158	2,159	166	4,483
	PERCENT	48.14	48.16	3.70	100.00

Appendix Table 47. Manby Shore commercial set gill net catch of salmon, hours fished, and number of fishermen, by species and period, 1982.

Week Ending	Hours Fished	Number of Fishermen	Number of Fish				
			Chinook	Sockeye	Coho	Pink	Chum
06/26	36	4	6	2,681		9	
07/03	36	16	4	8,022	36		51
07/10	36	12	14	3,446	40		9
07/17	36	6	2	3,379	76	26	41
07/24	60	1		629			
07/31	60	2		500			
08/07							
08/14							
08/21							
08/28	72	5			343		
09/04	72	6			2,099		
09/11	72	6			3,035		
09/18	72	3			3,058		
09/25	72						
10/02	72	1			1,357		
Total			26	18,657	10,044	35	101

Appendix Table 48. Manby Shore escapement of salmon, by area and species, 1982^{1 2}.

Area	Date	Chinook	Sockeye	Coho	Pink	Chum
Malaspina			1,700			
Manby Pond				600		

¹ Aerial surveys.

² Minimum estimated escapement. Peak surveys.

Appendix Table 49. Manby Shore commercial gill net catch of sockeye salmon, sex and age group by sample period, 1982.

		AGE GROUP							TOTAL	
		3 ₁	4 ₁	4 ₂	5 ₂	5 ₃	6 ₃	6 ₄	7 ₄	
SAMPLE PERIOD 1 6/23- 7/21										
PERIOD SAMPLE SIZE		463								
MALE	COUNT	121	604	1,249	4,674	484	1,048	0	121	8,301
	PERCENT	.65	3.24	6.69	25.05	2.59	5.62	0.00	.65	44.49
FEMALE	COUNT	40	564	1,249	6,731	403	1,289	40	40	10,356
	PERCENT	.21	3.02	6.69	36.08	2.16	6.91	.21	.21	55.51
SEXES COMBINED	COUNT	161	1,168	2,498	11,405	887	2,337	40	161	18,657
	PERCENT	.86	6.26	13.39	61.13	4.75	12.53	.21	.86	100.00

Appendix Table 50. Manby Shore commercial gill net catch of coho salmon, sex and age group by sample period, 1982.

		AGE GROUP			
		3 ₂	4 ₃	5 ₄	TOTAL
SAMPLE PERIOD	1	8/26- 9/30			
PERIOD SAMPLE SIZE		288			
MALE	COUNT	1,569	3,627	105	5,301
	PERCENT	15.62	36.11	1.05	52.78
FEMALE	COUNT	1,186	3,313	244	4,743
	PERCENT	11.81	32.98	2.43	47.22
SEXES COMBINED	COUNT	2,755	6,940	349	10,044
	PERCENT	27.43	69.10	3.47	100.00

Appendix Table 51. Yahtse River commercial set gill net catch of salmon, hours fished, and number of fishermen, by period, 1982.

Week Ending	Hours Fished	Number of Fishermen	Number of Fish				
			Chinook	Sockeye	Coho	Pink	Chum
08/28	72	3			690		
09/04	72	1			1,133	1	
09/11	72	3			2,462		
09/18	72	3			2,532		
09/25	72	1			658		
10/02	72	1			193		
Total					7,668	1	

Appendix Table 52. Yahtse River escapement of salmon, 1982¹.

Area	Date	Coho
Jetty Stream ³	10/04	1,200

¹ Aerial surveys.

² Peak surveys. Due to the glacial nature of the Yahtse River, direct visual enumeration is not possible.

³ Small stream on the west side of Icy Bay.

Appendix Table 53. Yahtse River commercial gill net catch of coho salmon, sex and age group by sample period, 1982.

		AGE GROUP			
		3 ₂	4 ₃	5 ₄	TOTAL
SAMPLE PERIOD	1 9/ 1- 9/24				
PERIOD SAMPLE SIZE	385				
MALE	COUNT	2,032	2,230	120	4,382
	PERCENT	26.50	29.08	1.56	57.15
FEMALE	COUNT	1,374	1,872	40	3,286
	PERCENT	17.92	24.41	.52	42.85
SEXES COMBINED	COUNT	3,406	4,102	160	7,668
	PERCENT	44.42	53.50	2.09	100.00

Appendix Table 54. Tsiu River commercial set gill net catch of salmon, hours fished, and number of fishermen, by period, 1982.

Week Ending	Hours Fished	Number of Fishermen	Number of Fish				
			Chinook	Sockeye	Coho	Pink	Chum
08/28	24	16			9,106		
09/04	48	19			11,380		
09/11	72	24			15,118		
09/18	72	17			10,387		
09/25	24	3			445		
Total					46,436		

Appendix Table 55. Tsiu River escapement of salmon, 1982¹.

Date	Coho
08/28	4,000
09/03	10,000
09/09	20,000
10/04	40,000
Total ²	40,000

¹ Aerial surveys.

² Minimum estimated escapement.
Peak survey.

Appendix Table 56. Tsiu River commercial gill net catch of coho salmon, sex and age group by sample period, 1982.

		AGE GROUP			
		3 ₂	4 ₃	5 ₄	TOTAL
SAMPLE PERIOD	1	9/ 7- 9/13			
PERIOD SAMPLE SIZE		320			
MALE	COUNT	11,463	11,029	1,016	23,508
	PERCENT	24.69	23.75	2.19	50.62
FEMALE	COUNT	8,417	13,785	726	22,928
	PERCENT	18.13	29.69	1.56	49.38
SEXES COMBINED	COUNT	19,880	24,814	1,742	46,436
	PERCENT	42.81	53.44	3.75	100.00

Appendix Table 57. Kaliakh River commercial set gill net catch of salmon, hours fished, and number of fishermen, by period, 1982.

Week Ending	Hours Fished	Number of Fishermen	Number of Fish				
			Chinook	Sockeye	Coho	Pink	Chum
09/04	72	9			3,062		
09/11	96	17			8,312	46	
09/18	96	16			2,927		
09/25	24	11			2,142		
Total					16,443	46	

Appendix Table 58. Kaliakh River escapement of salmon, 1982¹.

Number of Fish	
Date	Coho
10/04	8,000
Total ²	8,000

¹ Aerial surveys.

² Minimum estimated escapement.
Peak survey.

Appendix Table 59. Kaliakh River commercial gill net catch of coho salmon, sex and age group by sample period, 1982.

		AGE GROUP			
		3 ₂	4 ₃	5 ₄	TOTAL
SAMPLE PERIOD	1	8/25- 9/ 7			
PERIOD	SAMPLE SIZE	138			
MALE	COUNT	3,694	5,004	119	8,817
	PERCENT	22.47	30.43	.72	53.62
FEMALE	COUNT	3,575	4,051	0	7,626
	PERCENT	21.74	24.64	0.00	46.38
SEXES COMBINED	COUNT	7,269	9,055	119	16,443
	PERCENT	44.21	55.07	.72	100.00

Appendix Table 60. Age composition summary of Alsek River chinook salmon commercial gill net catches, 1961-1975¹.

Year	Sample Size	Percent Composition by Age Class				
		4 ₂	5 ₂	6 ₂	6 ₃	7 ₃
1961	542	19.2	71.2	4.8	4.1	0.6
1973	60	5.0	43.3	50.0	1.7	
1974	57	1.8	24.6	70.2	1.8	1.8
1975	96	2.1	42.7	50.0	2.1	3.1

¹ Source: Kissner, Paul D., Jr. 1976. A study of chinook salmon in Southeast Alaska. ADF&G. Annual Report 1975-1976, Project F-9-8, 17 (AFS-41).

Appendix Table 61. Age composition summary of Klukshu River chinook salmon, 1976-1980.

Year	Sample Size	Percent Composition by Age Class			
		4 ₂	5 ₂	6 ₂	7 ₃
1976	78	3.84	35.89	59.97	
1977	127	11.02	39.37	48.82	0.79
1978	39	10.26	61.54	28.20	
1979	46	2.17	52.17	43.48	2.17
1980	64	6.25	28.12	65.62	

- ¹ Native subsistence food fishery.
- ² Mixed subsistence and sport fishery.
- ³ Mixed sport and carcass samples.

Appendix Table 62. Age and sex composition summary of Yakutat area sockeye salmon escapements, by fishery, 1981.

Fishery	Sample Size	Sex	Percent Composition by Age Class and Brood Year								Total	
			1979	1978		1977		1976		1975		
			2 ₁	3 ₁	3 ₂	4 ₁	4 ₂	5 ₂	5 ₃	6 ₃		6 ₄
East River	816	Male	9.56	7.72	0.49	27.81	0.37	1.22				47.18
		Female		4.66		46.20	0.37	1.60				52.82
		Total	9.56	12.38	0.49	74.01	0.74	2.82				100.00
Alesek River ¹	305	Male			0.98		25.25	29.51	1.31	0.33	0.33	57.70
		Female					15.08	26.23	0.98			42.30
		Total			0.98		40.33	55.74	2.29	0.33	0.33	100.00
Akwe River	167	Male	1.20	21.56	0.60	38.92		1.20				63.47
		Female		2.99		32.33	0.60	0.60				36.53
		Total	1.20	24.55	0.60	71.25	0.60	1.80				100.00
Italio River	196	Male		0.51	1.02	1.53	6.63	32.65	0.51	0.51		43.37
		Female				1.53	6.12	47.96		1.02		56.63
		Total		0.51	1.02	3.06	12.76	80.61	0.51	1.53		100.00
Situk River	178	Male			0.56		7.30	27.53	2.81			38.20
		Female					1.69	55.62	2.25	2.25		61.80
		Total			0.56		8.99	83.15	5.06	2.25		100.00
Lost River	137	Male	2.91	8.03	8.03	7.30	8.03	8.03				42.33
		Female		1.46		25.55	14.60	15.83		0.73		57.67
		Total	2.91	9.49	8.03	32.85	22.63	23.36		0.73		100.00

¹ Klukshu Village Native Food Fishery.

Appendix Table 63. Age composition summary of Situk River sockeye salmon escapements, 1966-1981.

Year	Sample Size	Percent Composition by Age Class				
		4 ₂	5 ₂	5 ₃	6 ₃	Others
1966	115	13.0	72.2	6.1	8.7	0.0
1968	67	29.9	46.3	16.4	7.4	0.0
1971	53	24.5	62.2	0.0	5.7	7.6
1974	377	10.1	62.9	10.9	16.1	0.0
1975	231	17.3	33.4	26.8	20.4	2.1
1976	155	27.1	31.0	18.1	23.8	0.0
1977	64	4.7	76.5	9.4	9.4	0.0
1978	60	20.0	46.6	16.7	16.7	0.0
1979	66	21.2	59.1	7.6	12.1	0.0
1981	178	9.0	83.1	5.1	2.2	0.6

Appendix Table 64. Age and sex composition of coho salmon from Yakutat area commercial gill net fisheries, 1969.

Fishery	Sample Size	Sex	Percent Composition by Age Class			
			3 2	4 3	5 4	6 5
Alsek	233	Male	10.3	41.2	4.3	0.4
		Female	4.7	36.1	3.0	
		Total	15.0	77.3	7.3	0.4
Situk	242	Male	31.0	23.1	6.2	0.4
		Female	15.7	17.8	5.0	0.8
		Total	46.7	40.9	11.2	1.2
Tsiu	170	Male	15.9	38.8	8.8	
		Female	4.7	30.0	1.8	
		Total	20.6	68.8	10.6	
Kaliakh	60	Male	21.7	38.3	6.7	
		Female	18.3	13.4	1.6	
		Total	40.0	51.7	8.3	

Appendix Table 65. Age and sex composition of coho salmon from Yakutat area commercial gill net fisheries, 1970.

Fishery	Sample		Percent Composition by Age Class			
	Size	Sex	3 ₂	4 ₃	5 ₄	6 ₅
Doame	118	Male	26.3	22.0	2.5	
		Female	27.9	18.7	2.6	
		Total	54.2	40.7	5.1	
Alsek	230	Male	8.7	32.2	4.3	
		Female	6.5	40.8	7.3	
		Total	15.2	73.0	11.7	
Situk	208	Male	15.9	32.2	3.9	
		Female	9.6	30.8	7.2	0.5
		Total	25.5	63.0	11.1	0.5

Appendix Table 66. Age and sex composition of chum salmon from the East Alsek River escapement, 1981.

Sample Size	Sex	Percent Composition by Age Class		
		3 ₁	4 ₁	5 ₁
120	Male		21.67	3.33
	Female	2.22	60.55	12.23
	Total	2.22	82.22	15.56

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