This document contains Appendices C and D of "Salmon, Age, Sex, and Length Catalog for the Kuskokwim Area, 2008" by Douglas B. Molyneaux, Amy R. Brodersen, and Christopher A. Shelden. The full text of that document is at:

http://www.sf.adfg.state.ak.us/FedAidPDFs/RIR.3A.2010.05.pdf

Appendices C and D: Chum Salmon

Appendix C–Historical Age, Sex, and Length of Chum Salmon Sampled from Kuskokwim Area Escapement Projects

Appendix D–Historical Age, Sex, and Length of Chum Salmon Sampled from Kuskokwim Area Commercial, Test, and Subsistence Fisheries

by

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APPENDIX C: HISTORICAL AGE, SEX, AND LENGTH OF CHUM SALMON SAMPLED FROM KUSKOKWIM AREA ESCAPEMENT PROJECTS.

Appendix C.1. Age and sex of chum salmon at the Takotna River weir based on escapement samples collected with a fish trap.[ab] (page 1 of 5)

Year	Sample Dates (Stratum Dates)	Sample Size	Sex	Age Class 0.2 Esc.	0.2 %	0.3 Esc.	0.3 %	0.4 Esc.	0.4 %	0.5 Esc.	0.5 %	Total Esc.	Total %
2000	7/5-7	85	M	0	0.0	73	17.6	117	28.2	5	1.2	195	47.1
	(6/24-7/9)		F	0	0.0	132	31.8	88	21.2	0	0.0	220	52.9
			Subtotal	0	0.0	205	49.4	205	49.4	5	1.2	415	100.0
	7/12-14	117	M	0	0.0	58	20.5	41	14.6	0	0.0	98	35.0
	(7/10-16)		F	0	0.0	120	42.7	62	22.2	0	0.0	183	65.0
			Subtotal	0	0.0	178	63.2	103	36.8	0	0.0	281	100.0
	7/19- 21	140	M	8	2.2	104	30.0	52	15.0	0	0.0	163	47.1
	(7/17-24)		F	7	2.1	131	37.9	44	12.9	0	0.0	183	52.9
			Subtotal	15	4.3	235	67.9	96	27.9	0	0.0	346	100.0
	7/28-29	23	M	0	0.0	55	26.1	19	8.7	0	0.0	74	34.8
	(7/25-8/29)		F	18	8.7	102	47.8	18	8.7	0	0.0	138	65.2
			Subtotal	18	8.7	157	73.9	37	17.4	0	0.0	212	100.0
	Season	365	M	7	0.6	290	23.1	229	18.2	5	0.4	531	42.3
			F	26	2.1	484	38.6	213	17.0	0	0.0	723	57.7
			Total	33	2.7	774	61.7	442	35.2	5	0.4	1,254	100.0
2001	7/5-6	74	M	0	0.0	223	36.5	190	31.1	0	0.0	413	67.6
	(6/20-7/8)		F	0	0.0	74	12.1	124	20.3	0	0.0	198	32.4
			Subtotal	0	0.0	297	48.6	314	51.4	0	0.0	611	100.0
	7/10-11,13-14	153	M	0	0.0	567	33.3	289	17.0	11	0.7	867	51.0
	(7/9-15)		F	0	0.0	589	34.7	245	14.4	0	0.0	834	49.0
			Subtotal	0	0.0	1,156	68.0	534	31.4	11	0.7	1,701	100.0
	7/17-18	83	M	0	0.0	429	39.7	130	12.1	0	0.0	559	51.8
	(7/16-19)		F	0	0.0	468	43.4	52	4.8	0	0.0	520	48.2
			Subtotal	0	0.0	897	83.1	182	16.9	0	0.0	1,079	100.0
	7/21-23	103	M	0	0.0	421	34.9	141	11.7	0	0.0	562	46.6
	(7/20-25)		F	0	0.0	527	43.7	117	9.7	0	0.0	644	53.4
			Subtotal	0	0.0	948	78.6	258	21.4	0	0.0	1,206	100.0
	7/28-30	106	M	0	0.0	222	36.8	12	1.9	0	0.0	233	38.7
	(7/26-8/2)		F	0	0.0	335	55.7	34	5.6	0	0.0	370	61.3
			Subtotal	0	0.0	557	92.5	46	7.5	0	0.0	603	100.0
	8/5-7	54	M	0	0.0	57	25.9	4	1.9	0	0.0	61	27.8
	(8/3-28)		F	4	0.9	155	70.4	0	0.0	0	0.0	159	72.2
			Subtotal	4	0.9	212	96.3	4	1.9	0	0.0	220	100.0
	Season	573	M	0	0.0	1,919	35.4	765	14.1	11	0.2	2,695	49.7
			F	4	0.1	2,149	39.7	572	10.6	0	0.0	2,725	50.3
			Total	4	0.1	4,068	75.1	1,337	24.7	11	0.2	5,420	100
2002	6/27-28	190	M	0	0.0	59	11.1	188	35.2	6	1.1	253	47.4
	(6/23-29)		F	0	0.0	76	14.2	200	37.4	5	1.0	281	52.6
			Subtotal	0	0.0	135	25.3	388	72.6	11	2.1	534	100.0

Appendix C.1. Age and sex of chum salmon at the Takotna River weir based on escapement samples collected with a fish trap.[ab] (page 2 of 5)

Year	Sample Dates (Stratum Dates)	Sample Size	Sex	Age Class 0.2 Esc.	0.2 %	0.3 Esc.	0.3 %	0.4 Esc.	0.4 %	0.5 Esc.	0.5 %	Total Esc.	Total %
	7/1-3	137	M	0	0.0	207	23.4	311	35.0	7	0.7	525	59.1
	(6/30-7/5)		F	0	0.0	156	17.5	188	21.2	19	2.2	363	40.9
			Subtotal	0	0.0	363	40.9	499	56.2	26	2.9	888	100.0
	7/8-10	164	M	9	0.6	277	19.5	476	33.5	9	0.6	770	54.3
	(7/6-12)		F	8	0.6	311	22.0	329	23.2	0	0.0	649	45.7
			Subtotal	17	1.2	588	41.5	805	56.7	9	0.6	1,419	100.0
	7/15-17	131	M	6	0.8	203	29.0	112	16.0	0	0.0	320	45.8
	(7/13-19)		F	5	0.7	181	26.0	192	27.5	0	0.0	379	54.2
			Subtotal	11	1.5	384	55.0	304	43.5	0	0.0	699	100.0
	7/22-24	141	M	15	2.8	213	39.7	84	15.6	4	0.7	316	58.9
	(7/20-26)		F	23	4.3	153	28.4	45	8.5	0	0.0	221	41.1
			Subtotal	38	7.1	366	68.1	129	24.1	4	0.7	537	100.0
	7/29-31,8/5-7	61	M	27	9.9	74	26.3	23	8.2	0	0.0	124	44.3
	(7/27-9/20)		F	14	4.9	73	26.2	64	22.9	5	1.6	156	55.7
			Subtotal	41	14.8	147	52.5	87	31.1	5	1.6	280	100.0
	Season	824	M	57	1.3	1,039	23.8	1,197	27.3	24	0.5	2,317	53.0
			F	50	1.2	955	21.8	1,024	23.4	30	0.7	2,060	47.0
			Total	107	2.5	1,994	45.6	2,221	50.7	54	1.2	4,377	100.0
2003	7/5-7	212	M	0	0.0	496	54.3	104	11.3	9	0.9	608	66.5
	(6/24-7/10)		F	26	2.8	224	24.5	56	6.2	0	0.0	306	33.5
			Subtotal	26	2.8	720	78.8	160	17.5	9	0.9	914	100.0
	7/14-16	187	M	6	0.5	556	49.7	102	9.1	0	0.0	664	59.4
	(7/11 - 7/19)		F	24	2.2	413	36.9	18	1.6	0	0.0	455	40.6
			Subtotal	30	2.7	969	86.6	120	10.7	0	0.0	1,119	100.0
	7/23-25,8/10-11	165	M	8	0.6	445	32.7	41	3.0	8	0.6	503	37.0
	(7/20-9/20)		F	107	7.9	701	51.5	50	3.7	0	0.0	857	63.0
			Subtotal	115	8.5	1,146	84.2	91	6.7	8	0.6	1,360	100.0
	Season	564	M	14	0.4	1,497	44.2	246	7.3	17	0.5	1,775	52.3
			F	157	4.6	1,338	39.4	124	3.6	0	0.0	1,618	47.7
			Total	171	5.0	2,835	83.6	370	10.9	17	0.5	3,393	100.0
2004	6/30-7/8	210	M	24	2.4	227	22.9	274	27.6	0	0.0	525	52.9
	(6/23-7/12)		F	38	3.8	251	25.2	180	18.1	0	0.0	469	47.1
			Subtotal	62	6.2	478	48.1	454	45.7	0	0.0	994	100.0
	7/15	91	M	31	6.6	103	22.0	62	13.2	0	0.0	196	41.8
	(7/13-25)		F	46	9.9	150	31.8	77	16.5	0	0.0	273	58.2
			Subtotal	77	16.5	253	53.8	139	29.7	0	0.0	469	100.0
	7/27-8/5	42	M	44	26.2	29	16.7	24	14.3	0	0.0	97	57.1
	(7/26-9/20)		F	53	30.9	16	9.5	4	2.4	0	0.0	73	42.9
			Subtotal	97	57.1	45	26.2	28	16.7	0	0.0	170	100.0

Appendix C.1. Age and sex of chum salmon at the Takotna River weir based on escapement samples collected with a fish trap.[ab] (page 3 of 5)

Year	Sample Dates (Stratum Dates)	Sample Size	Sex	Age Class 0.2 Esc.	0.2 %	0.3 Esc.	0.3 %	0.4 Esc.	0.4 %	0.5 Esc.	0.5 %	Total Esc.	Total %
	Season	343	M	99	6.1	359	22.0	361	22.1	0	0.0	818	50.1
			F	137	8.4	416	25.5	261	16.0	0	0.0	815	49.9
			Total	236	14.5	775	47.5	622	38.1	0	0.0	1,633	100.0
2005	7/1-5	138	M	0	0.0	422	58.7	10	1.4	0	0.0	432	60.1
	(6/24-7/6)		F	16	2.2	250	34.8	21	2.9	0	0.0	287	39.9
			Subtotal	16	2.2	672	93.5	31	4.3	0	0.0	719	100.0
	7/8-10	166	M	10	0.6	683	41.6	20	1.2	0	0.0	712	43.4
	(7/7-12)		F	138	8.4	791	48.2	0	0.0	0	0.0	930	56.6
			Subtotal	148	9.0	1,474	89.8	20	1.2	0	0.0	1,642	100.0
	7/15-17	186	M	22	1.1	895	44.1	0	0.0	0	0.0	916	45.2
	(7/13-19)		F	174	8.6	927	45.7	11	0.5	0	0.0	1,113	54.8
			Subtotal	196	9.7	1,822	89.8	11	0.5	0	0.0	2,029	100.0
	7/22-24	159	M	8	0.6	670	50.3	17	1.3	0	0.0	695	52.2
	(7/20-27)		F	84	6.3	552	41.5	0	0.0	0	0.0	636	47.8
			Subtotal	92	6.9	1,222	91.8	17	1.3	0	0.0	1,331	100.0
	7/30-8/4	187	M	16	2.1	359	48.1	16	2.1	0	0.0	391	52.4
	(7/28-9/20)		F	88	11.8	267	35.9	0	0.0	0	0.0	355	47.6
			Subtotal	104	13.9	626	84.0	16	2.1	0	0.0	746	100.0
	Season	836	M	56	0.9	3,028	46.8	63	1.0	0	0.0	3,147	48.7
			F	500	7.7	2,788	43.1	32	0.5	0	0.0	3,320	51.3
			Total	556	8.6	5,816	89.9	95	1.5	0	0.0	6,467	100.0
2006	6/28-30	194	M	0	0.0	134	16.5	395	48.4	8	1.0	538	66.0
	(6/24-7/2)		F	0	0.0	118	14.4	160	19.6	0	0.0	277	34.0
			Subtotal	0	0.0	252	30.9	555	68.0	8	1.0	815	100.0
	7/5-7	199	M	0	0.0	1,260	31.2	1,199	29.6	0	0.0	2,460	60.8
	(7/3-11)		F	0	0.0	935	23.1	651	16.1	0	0.0	1,585	39.2
			Subtotal	0	0.0	2,195	54.3	1,850	45.7	0	0.0	4,045	100.0
	7/15-17	186	M	19	0.5	1,237	35.5	694	19.9	0	0.0	1,949	55.9
	(7/12-19)		F	93	2.7	1,162	33.3	281	8.1	0	0.0	1,537	44.1
			Subtotal	112	3.2	2,399	68.8	975	28.0	0	0.0	3,486	100.0
	7/21-23	197	M	34	1.5	695	30.9	285	12.7	0	0.0	1,014	45.2
	(7/20-26)		F	34	1.5	866	38.6	330	14.7	0	0.0	1,231	54.8
			Subtotal	68	3.0	1,561	69.5	615	27.4	0	0.0	2,245	100.0
	7/29-31	198	M	12	1.0	299	25.2	137	11.6	0	0.0	448	37.9
	(7/27-8/2)		F	24	2.0	543	46.0	167	14.2	0	0.0	734	62.1
			Subtotal	36	3.0	842	71.2	304	25.8	0	0.0	1,182	100.0

Appendix C.1. Age and sex of chum salmon at the Takotna River weir based on escapement samples collected with a fish trap.[ab] (page 4 of 5)

Year	Sample Dates (Stratum Dates)	Sample Size	Sex	Age Class 0.2 Esc.	0.2 %	0.3 Esc.	0.3 %	0.4 Esc.	0.4 %	0.5 Esc.	0.5 %	Total Esc.	Total %
	8/5-8	195	M	8	1.0	203	24.6	68	8.2	0	0.0	279	33.8
	(8/3-9/20)		F	51	6.2	385	46.7	110	13.3	0	0.0	546	66.2
			Subtotal	59	7.2	588	71.3	178	21.5	0	0.0	825	100.0
	Season	1,169	M	73	0.6	3,828	30.4	2,777	22.0	8	0.1	6,688	53.1
			F	203	1.6	4,009	31.8	1,699	13.5	0	0.0	5,910	46.9
			Total	276	2.2	7,837	62.2	4,476	35.5	8	0.1	12,598	100.0
2007	6/29-7/3	195	M	7	1.0	211	31.3	180	26.7	34	5.2	432	64.1
	(6/24-7/5)		F	3	0.5	142	21.0	90	13.3	7	1.0	242	35.9
			Subtotal	10	1.5	353	52.3	270	40.0	41	6.2	674	100.0
	7/8-10	197	M	12	0.5	774	32.5	411	17.2	36	1.5	1,234	51.8
	(7/6-12)		F	97	4.1	726	30.4	303	12.7	24	1.0	1,149	48.2
			Subtotal	109	4.6	1,500	62.9	714	29.9	60	2.5	2,383	100.0
	7/15-17	182	M	0	0.0	731	27.5	526	19.8	44	1.6	1,302	48.9
	(7/13-19)		F	59	2.2	849	31.8	439	16.5	15	0.6	1,360	51.1
			Subtotal	59	2.2	1,580	59.3	965	36.3	59	2.2	2,662	100.0
	7/22-24	186	M	37	1.6	644	28.0	520	22.6	25	1.1	1,226	53.2
	(7/20-27)		F	62	2.7	694	30.1	285	12.3	37	1.6	1,078	46.8
			Subtotal	99	4.3	1,338	58.1	805	34.9	62	2.7	2,304	100.0
	7/29-8/1	186	M	5	0.5	288	32.8	151	17.2	10	1.1	453	51.6
	(7/28-9/20)		F	23	2.7	292	33.3	99	11.3	9	1.1	424	48.4
			Subtotal	28	3.2	580	66.1	250	28.5	19	2.2	877	100.0
	Season	946	M	61	0.7	2,648	29.7	1,789	20.1	149	1.7	4,647	52.2
			F	244	2.7	2,702	30.4	1,215	13.6	92	1.0	4,253	47.8
			Total	305	3.4	5,350	60.1	3,004	33.7	241	2.7	8,900	100.0
2008	6/30-7/4	125	M	0	0.0	68	9.6	384	54.5	22	3.2	474	67.2
	(6/15-7/6)		F	0	0.0	11	1.6	203	28.8	17	2.4	231	32.8
			Subtotal	0	0.0	79	11.2	587	83.2	39	5.6	705	100.0
	7/7-11	99	M	0	0.0	87	10.1	340	39.4	26	3.0	453	52.5
	(7/7-11)		F	0	0.0	87	10.1	288	33.3	35	4.1	410	47.5
			Subtotal	0	0.0	174	20.2	628	72.7	61	7.1	863	100.0
	7/13-18	199	M	0	0.0	243	12.1	617	30.7	91	4.5	951	47.2
	(7/12-19)		F	0	0.0	425	21.1	577	28.6	61	3.0	1,062	52.8
			Subtotal	0	0.0	668	33.2	1,194	59.3	152	7.5	2,013	100.0
	7/20-24,26,28-8/1	178	M	0	0.0	415	19.7	545	25.8	24	1.1	984	46.6
	(7/20-9/20)		F	0	0.0	510	24.1	534	25.3	83	4.0	1,126	53.4
			Subtotal	0	0.0	925	43.8	1,079	51.1	107	5.1	2,110	100.0

Appendix C.1. Age and sex of chum salmon at the Takotna River weir based on escapement samples collected with a fish trap.[ab] (page 5 of 5)

Year	Sample Dates (Stratum Dates)	Sample Size	Sex	Age Class 0.2 Esc.	0.2 %	0.3 Esc.	0.3 %	0.4 Esc.	0.4 %	0.5 Esc.	0.5 %	Total Esc.	Total %
	Season	601	M	0	0.0	813	14.3	1,886	33.2	163	2.9	2,862	50.3
			F	0	0.0	1,033	18.1	1,601	28.1	196	3.4	2,829	49.7
			Total	0	0.0	1,846	32.4	3,487	61.3	359	6.3	5,691	100.0
2009	7/5-14	313	M	8	0.9	240	29.4	123	15.0	32	3.8	401	49.2
	(6/24-7/16)		F	10	1.3	281	34.5	104	12.8	18	2.3	415	50.8
			Subtotal	18	2.2	521	63.9	227	27.8	50	6.1	816	100.0
	7/18-22	216	M	16	1.8	339	40.3	47	5.6	4	0.5	405	48.1
	(7/17-25)		F	23	2.8	350	41.6	58	6.9	4	0.4	436	51.9
			Subtotal	39	4.6	689	81.9	105	12.5	8	0.9	841	100.0
	7/26-8/18	419	M	14	1.7	361	43.4	77	9.3	0	0.0	452	54.4
	(7/26-9/20)		F	18	2.1	313	37.7	46	5.5	2	0.2	378	45.6
			Subtotal	32	3.8	674	81.1	123	14.8	2	0.2	830	100.0
	Season	948	M	37	1.5	939	37.8	247	9.9	35	1.4	1,258	50.6
			F	52	2.1	945	38.0	208	8.4	24	1.0	1,229	49.4
			Total	89	3.6	1,884	75.8	455	18.3	59	2.4	2,487	100.0
	Grand	7,169	M	404	0.8	16,360	31.3	9,560	18.3	412	0.8	26,738	51.2
	Total [c]		F	1,373	2.6	16,819	32.2	6,949	13.3	342	0.7	25,482	48.8
			Total	1,777	3.4	33,179	63.5	16,509	31.6	754	1.4	52,220	100.0

[a] The number of fish in each stratum age and sex category are derived from the sample percentages; discrepancies in sums are attributed to rounding errors.

[b] The number of fish in "Season" summaries are the strata sums; "Season" percentages are derived from the sums.

[c] The number of fish in the "Grand Total" are the sum of the "Season" totals; percentages are derived from those sums.

Appendix C.2. Mean length (mm) of chum salmon at the Takotna River weir based on escapement samples collected with a fish trap.[a] (page 1 of 12)

Year	Sample Dates (Stratum Dates)	Sex		Age Class 0.2	0.3	0.4	0.5
2000	7/5-7 (6/24-7/9)	M	Mean Length		554	606	648
			Std. Error		6	7	-
			Range		507- 580	540- 658	648- 648
			Sample Size	0	15	24	1
		F	Mean Length		542	576	
			Std. Error		4	9	
			Range		490- 583	514- 667	
			Sample Size	0	27	18	0
	7/12-14 (7/10-16)	M	Mean Length		561	577	
			Std. Error		3	4	
			Range		537- 587	548- 602	
			Sample Size	0	24	17	0
		F	Mean Length		540	558	
			Std. Error		3	6	
			Range		500- 583	485- 614	
			Sample Size	0	50	26	0
	7/19-21 (7/17-24)	M	Mean Length	547	562	590	
			Std. Error	29	4	8	
			Range	496- 596	502- 610	530- 698	
			Sample Size	3	42	21	0
		F	Mean Length	546	542	551	
			Std. Error	23	3	7	
			Range	516- 591	477- 591	515- 618	
			Sample Size	3	53	18	0
	7/28-29 (7/25-8/29)	M	Mean Length		564	620	
			Std. Error		6		
			Range		548- 588	620- 620	
			Sample Size	0	6	2	0
		F	Mean Length	525	542	519	
			Std. Error	15	10	5	
			Range	510- 540	485- 587	514- 523	
			Sample Size	2	11	2	0
	Season	M	Mean Length	547	560	598	648
			Range	496- 596	502- 610	530- 698	648- 648
			Sample Size	3	87	64	1
		F	Mean Length	531	542	560	
			Range	510- 591	477- 591	485- 667	
			Sample Size	5	141	64	0

Appendix C.2. Mean length (mm) of chum salmon at the Takotna River weir based on escapement samples collected with a fish trap.[a] (page 2 of 12)

Year	Sample Dates (Stratum Dates)	Sex		Age Class 0.2	0.3	0.4	0.5
2001	7/5-6 (6/23-7/8)	M	Mean Length		603	587	
			Std. Error		6	7	
			Range		540- 645	505- 640	
			Sample Size	0	27	23	0
		F	Mean Length		572	563	
			Std. Error		4	7	
			Range		545- 585	500- 600	
			Sample Size	0	9	15	0
	7/10-14 (7/9-15)	M	Mean Length		585	591	540
			Std. Error		4	7	-
			Range		535- 650	500- 645	540- 540
			Sample Size	0	51	26	1
		F	Mean Length		551	565	
			Std. Error		3	5	
			Range		495- 600	530- 615	
			Sample Size	0	53	22	0
	7/17-18 (7/16-19)	M	Mean Length		578	600	
			Std. Error		4	5	
			Range		540- 620	570- 620	
			Sample Size	0	33	10	0
		F	Mean Length		549	569	
			Std. Error		4	12	
			Range		515- 590	540- 590	
			Sample Size	0	36	4	0
	7/21-23 (7/20-25)	M	Mean Length		574	584	
			Std. Error		5	7	
			Range		520- 665	540- 625	
			Sample Size	0	36	12	0
		F	Mean Length		546	576	
			Std. Error		4	7	
			Range		475- 600	540- 615	
			Sample Size	0	45	10	0
	7/28-30 (7/26-8/2)	M	Mean Length		578	585	
			Std. Error		5	10	
			Range		510- 630	575- 595	
			Sample Size	0	39	2	0
		F	Mean Length		552	543	
			Std. Error		3	8	
			Range		500- 600	510- 565	
			Sample Size	0	59	6	0

Appendix C.2. Mean length (mm) of chum salmon at the Takotna River weir based on escapement samples collected with a fish trap.[a] (page 3 of 12)

Year	Sample Dates (Stratum Dates)	Sex		Age Class 0.2	0.3	0.4	0.5
	8/5-7 (8/3-28)	M	Mean Length		559	620	
			Std. Error		10	-	
			Range		490- 610	620- 620	
			Sample Size	0	14	1	0
		F	Mean Length	500	519		
			Std. Error	-	4		
			Range	500- 500	465- 610		
			Sample Size	1	38	0	0
	Season	M	Mean Length		581	590	540
			Range		490- 665	500- 645	540- 540
			Sample Size	0	200	74	1
		F	Mean Length	500	548	566	
			Range	500- 500	465- 610	500- 615	
			Sample Size	1	240	57	0
2002	6/27-28 (6/23-29)	M	Mean Length		590	609	613
			Std. Error		5	3	8
			Range		544- 624	550- 660	605- 620
			Sample Size	0	21	67	2
		F	Mean Length		574	582	583
			Std. Error		4	3	28
			Range		537- 625	526- 630	555- 610
			Sample Size	0	27	71	2
	7/1-3 (6/30-7/5)	M	Mean Length		590	610	572
			Std. Error		7	4	-
			Range		520- 696	543- 680	572- 572
			Sample Size	0	32	48	1
		F	Mean Length		555	576	555
			Std. Error		5	4	3
			Range		500- 583	530- 611	551- 562
			Sample Size	0	24	29	3
	7/8-10 (7/6-12)	M	Mean Length	556	579	605	612
			Std. Error	-	5	4	-
			Range	556- 556	525- 633	525- 690	612- 612
			Sample Size	1	32	55	1
		F	Mean Length	496	556	571	
			Std. Error	-	4	4	
			Range	496- 496	498- 615	519- 625	
			Sample Size	1	36	38	0

Appendix C.2. Mean length (mm) of chum salmon at the Takotna River weir based on escapement samples collected with a fish trap.[a] (page 4 of 12)

Year	Sample Dates (Stratum Dates)	Sex		Age Class 0.2	0.3	0.4	0.5
	7/15-17 (7/13-19)	M	Mean Length	515	589	605	
			Std. Error	-	5	7	
			Range	515- 515	538- 648	550- 655	
			Sample Size	1	38	21	0
		F	Mean Length	532	542	573	
			Std. Error	-	4	5	
			Range	532- 532	508- 586	515- 643	
			Sample Size	1	34	36	0
	7/22-24 (7/20-26)	M	Mean Length	563	578	591	610
			Std. Error	22	4	7	-
			Range	506- 605	493- 660	550- 672	610- 610
			Sample Size	4	56	22	1
		F	Mean Length	528	551	561	
			Std. Error	8	4	7	
			Range	498- 552	476- 611	528- 600	
			Sample Size	6	40	12	0
	7/29-31,8/5-7 (7/27-9/20)	M	Mean Length	538	578	605	
			Std. Error	11	6	20	
			Range	510- 586	515- 611	550- 650	
			Sample Size	6	16	5	0
		F	Mean Length	503	536	552	587
			Std. Error	12	7	5	-
			Range	482- 522	485- 574	518- 603	587- 587
			Sample Size	3	16	14	1
	Season	M	Mean Length	545	583	606	601
			Range	506- 605	493- 696	525- 690	572- 620
			Sample Size	12	195	218	5
		F	Mean Length	516	552	573	565
			Range	482- 552	476- 625	515- 643	551- 610
			Sample Size	11	177	200	6
2003	7/5-7 (6/24-7/10)	M	Mean Length		585	624	618
			Std. Error		3	5	18
			Range		500- 645	570- 676	600- 635
			Sample Size	0	115	24	2
		F	Mean Length	540	568	585	
			Std. Error	10	4	7	
			Range	505- 563	520- 647	555- 625	
			Sample Size	6	51	13	0

Appendix C.2. Mean length (mm) of chum salmon at the Takotna River weir based on escapement samples collected with a fish trap.[a] (page 5 of 12)

Year	Sample Dates (Stratum Dates)	Sex		Age Class 0.2	0.3	0.4	0.5
	7/14-16 (7/11-7/19)	M	Mean Length	550	567	604	
			Std. Error	-	3	9	
			Range	550- 550	505- 635	500- 655	
			Sample Size	1	93	17	0
		F	Mean Length	521	544	590	
			Std. Error	5	4	30	
			Range	510- 532	475- 620	535- 640	
			Sample Size	4	69	3	0
	7/23-25,8/10-11 (7/20-9/20)	M	Mean Length	530	554	603	630
			Std. Error	-	4	14	-
			Range	530- 530	476- 620	570- 650	630- 630
			Sample Size	1	54	5	1
		F	Mean Length	502	527	547	
			Std. Error	6	3	12	
			Range	470- 537	485- 605	495- 580	
			Sample Size	13	85	6	0
	Season	M	Mean Length	538	569	612	624
			Range	530- 550	476- 645	500- 676	600- 635
			Sample Size	2	262	46	3
		F	Mean Length	510	539	570	
			Range	470- 563	475- 647	495- 640	
			Sample Size	23	205	22	0
2004	6/30-7/8 (6/23-7/12)	M	Mean Length	550	558	584	
			Std. Error	9	5	4	
			Range	530- 571	485- 672	504- 694	
			Sample Size	5	48	58	0
		F	Mean Length	523	544	552	
			Std. Error	4	3	4	
			Range	506- 537	476- 606	508- 612	
			Sample Size	8	53	38	0
	7/15 (7/13-25)	M	Mean Length	526	560	584	
			Std. Error	10	6	10	
			Range	502- 566	502- 604	506- 619	
			Sample Size	6	20	12	0
		F	Mean Length	506	528	541	
			Std. Error	6	6	6	
			Range	484- 536	451- 574	514- 587	
			Sample Size	9	29	15	0

Appendix C.2. Mean length (mm) of chum salmon at the Takotna River weir based on escapement samples collected with a fish trap.[a] (page 6 of 12)

Year	Sample Dates (Stratum Dates)	Sex		Age Class 0.2	0.3	0.4	0.5
	7/27-8/5 (7/26-9/20)	M	Mean Length	530	550	582	
			Std. Error	6	7	15	
			Range	497- 566	532- 577	530- 626	
			Sample Size	11	7	6	0
		F	Mean Length	505	531	538	
			Std. Error	7	10	-	
			Range	446- 534	514- 550	538- 538	
			Sample Size	13	4	1	0
	Season	M	Mean Length	534	558	584	
			Range	497- 571	485- 672	504- 694	
			Sample Size	22	75	76	0
		F	Mean Length	510	538	548	
			Range	446- 537	451- 606	508- 612	
			Sample Size	30	86	54	0
2005	7/1-5 (6/24-7/6)	M	Mean Length		576	544	
			Std. Error		4	7	
			Range		450- 650	537- 550	
			Sample Size	0	81	2	0
		F	Mean Length	543	550	582	
			Std. Error	16	5	15	
			Range	522- 575	478- 610	537- 604	
			Sample Size	3	48	4	0
	7/8-10 (7/7-12)	M	Mean Length	547	570	561	
			Std. Error	-	4	8	
			Range	547- 547	496- 640	553- 568	
			Sample Size	1	69	2	0
		F	Mean Length	526	543		
			Std. Error	7	3		
			Range	483- 557	485- 597		
			Sample Size	14	80	0	0
	7/15-17 (7/13-19)	M	Mean Length	537	565		
			Std. Error	3	3		
			Range	534- 540	480- 624		
			Sample Size	2	82	0	0
		F	Mean Length	514	537	510	
			Std. Error	6	3	-	
			Range	448- 546	440- 594	510- 510	
			Sample Size	16	85	1	0

Appendix C.2. Mean length (mm) of chum salmon at the Takotna River weir based on escapement samples collected with a fish trap.[a] (page 7 of 12)

Year	Sample Dates (Stratum Dates)	Sex		Age Class 0.2	0.3	0.4	0.5
	7/22-24 (7/20-27)	M	Mean Length	500	563	622	
			Std. Error	-	3	18	
			Range	500- 500	502- 626	604- 640	
			Sample Size	1	80	2	0
		F	Mean Length	518	534		
			Std. Error	6	4		
			Range	488- 549	468- 610		
			Sample Size	10	66	0	0
	7/30-8/4 (7/28-9/20)	M	Mean Length	524	564	529	
			Std. Error	11	3	21	
			Range	505- 555	486- 620	472- 564	
			Sample Size	4	90	4	0
		F	Mean Length	500	529		
			Std. Error	8	4		
			Range	408- 565	454- 596		
			Sample Size	22	67	0	0
	Season	M	Mean Length	530	567	566	
			Range	500- 555	450- 650	472- 640	
			Sample Size	8	402	10	0
		F	Mean Length	517	538	557	
			Range	408- 575	440- 610	510- 604	
			Sample Size	65	346	5	0
2006	6/28-30 (6/24-7/2)	M	Mean Length		567	580	649
			Std. Error		5	3	7
			Range		511- 635	508- 664	642- 655
			Sample Size	0	32	94	2
		F	Mean Length		540	558	
			Std. Error		4	4	
			Range		503- 578	506- 627	
			Sample Size	0	28	38	0
	7/5-7 (7/3-11)	M	Mean Length		558	574	
			Std. Error		3	4	
			Range		511- 606	505- 658	
			Sample Size	0	62	59	0
		F	Mean Length		539	552	
			Std. Error		3	5	
			Range		502- 596	473- 606	
			Sample Size	0	46	32	0

Appendix C.2. Mean length (mm) of chum salmon at the Takotna River weir based on escapement samples collected with a fish trap.[a] (page 8 of 12)

Year	Sample Dates (Stratum Dates)	Sex		Age Class 0.2	0.3	0.4	0.5
	7/15-17 (7/12-19)	M	Mean Length	509	560	583	
			Std. Error	-	3	5	
			Range	509- 509	482- 615	532- 661	
			Sample Size	1	66	37	0
		F	Mean Length	511	550	564	
			Std. Error	8	3	9	
			Range	483- 526	491- 590	504- 648	
			Sample Size	5	62	15	0
	7/21-23 (7/20-26)	M	Mean Length	521	567	575	
			Std. Error	2	4	5	
			Range	517- 523	495- 632	521- 640	
			Sample Size	3	61	25	0
		F	Mean Length	521	538	551	
			Std. Error	14	3	4	
			Range	502- 549	456- 599	502- 598	
			Sample Size	3	76	29	0
	7/29-31 (7/27-8/2)	M	Mean Length	549	557	577	
			Std. Error	23	5	8	
			Range	526- 572	498- 636	505- 666	
			Sample Size	2	50	23	0
		F	Mean Length	512	532	536	
			Std. Error	6	3	5	
			Range	496- 527	471- 624	481- 588	
			Sample Size	4	91	28	0
	8/5-8 (8/3-9/20)	M	Mean Length	543	547	562	
			Std. Error	16	5	7	
			Range	527- 558	435- 621	504- 613	
			Sample Size	2	48	16	0
		F	Mean Length	494	528	532	
			Std. Error	8	3	7	
			Range	450- 548	448- 587	471- 615	
			Sample Size	12	91	26	0
	Season	M	Mean Length	525	560	577	649
			Range	509- 572	435- 636	504- 666	642- 655
			Sample Size	8	319	254	2
		F	Mean Length	509	540	552	
			Range	450- 549	448- 624	471- 648	
			Sample Size	24	394	168	0

Appendix C.2. Mean length (mm) of chum salmon at the Takotna River weir based on escapement samples collected with a fish trap.[a] (page 9 of 12)

Year	Sample Dates (Stratum Dates)	Sex		Age Class 0.2	0.3	0.4	0.5
2007	6/29-7/3 (6/24-7/5)	M	Mean Length	549	564	576	585
			Std. Error	39	4	5	5
			Range	510- 588	504- 610	514- 653	565- 614
			Sample Size	2	61	52	10
		F	Mean Length	545	539	560	534
			Std. Error	-	4	5	47
			Range	545- 545	488- 597	513- 608	487- 581
			Sample Size	1	41	26	2
	7/8-10 (7/6-12)	M	Mean Length	504	561	569	552
			Std. Error	-	3	5	16
			Range	504- 504	512- 610	504- 625	521- 568
			Sample Size	1	64	34	3
		F	Mean Length	543	531	540	560
			Std. Error	8	4	6	16
			Range	514- 584	482- 596	476- 585	544- 575
			Sample Size	8	60	25	2
	7/15-17 (7/13-19)	M	Mean Length		545	567	573
			Std. Error		4	5	10
			Range		492- 618	494- 667	560- 592
			Sample Size	0	50	36	3
		F	Mean Length	501	530	528	585
			Std. Error	10	3	4	-
			Range	480- 523	483- 580	488- 563	585- 585
			Sample Size	4	58	30	1
	7/22-24 (7/20-27)	M	Mean Length	521	554	570	594
			Std. Error	17	5	5	17
			Range	500- 554	433- 642	519- 652	577- 610
			Sample Size	3	52	42	2
		F	Mean Length	524	538	525	527
			Std. Error	12	4	7	15
			Range	497- 553	482- 605	458- 587	502- 553
			Sample Size	5	56	23	3
	7/29-8/1 (7/28-9/20)	M	Mean Length	510	555	560	576
			Std. Error	-	4	5	22
			Range	510- 510	473- 633	503- 627	554- 598
			Sample Size	1	61	32	2
		F	Mean Length	526	525	531	523
			Std. Error	7	3	7	12
			Range	509- 548	477- 567	482- 575	511- 534
			Sample Size	5	62	21	2

Appendix C.2. Mean length (mm) of chum salmon at the Takotna River weir based on escapement samples collected with a fish trap.[a] (page 10 of 12)

Year	Sample Dates (Stratum Dates)	Sex		Age Class 0.2	0.3	0.4	0.5
	Season	M	Mean Length	520	554	569	574
			Range	500- 588	433- 642	494- 667	521- 614
			Sample Size	7	288	196	20
		F	Mean Length	526	532	533	545
			Range	480- 584	477- 605	458- 608	487- 585
			Sample Size	23	277	125	10
2008	6/30-7/4 (6/15-7/6)	M	Mean Length		561	576	584
			Std. Error		9	4	13
			Range		497-609	478-674	559-609
			Sample Size	0	12	68	4
		F	Mean Length		519	555	554
			Std. Error		19	4	15
			Range		500-537	490-600	525-577
			Sample Size	0	2	36	3
	7/7-11 (7/7-11)	M	Mean Length		569	579	592
			Std. Error		6	5	9
			Range		525-587	504-689	574-603
			Sample Size	0	10	39	3
		F	Mean Length		551	555	583
			Std. Error		7	4	8
			Range		519-590	514-592	562-596
			Sample Size	0	10	33	4
	7/13-18 (7/12-19)	M	Mean Length		556	567	565
			Std. Error		7	4	9
			Range		480-614	490-635	510-604
			Sample Size	0	24	61	9
		F	Mean Length		535	541	546
			Std. Error		3	3	11
			Range		493-590	472-626	507-587
			Sample Size	0	42	57	6
	7/20-24,26,28-8/1 (7/20-9/20)	M	Mean Length		548	557	599
			Std. Error		4	4	17
			Range		493-618	495-609	582-615
			Sample Size	0	35	46	2
		F	Mean Length		517	536	530
			Std. Error		4	4	10
			Range		457-557	490-597	490-556
			Sample Size	0	43	45	7

Appendix C.2. Mean length (mm) of chum salmon at the Takotna River weir based on escapement samples collected with a fish trap.[a] (page 11 of 12)

Year	Sample Dates (Stratum Dates)	Sex		Age Class 0.2	0.3	0.4	0.5
	Season	M	Mean Length		554	568	577
			Range		480-618	478-689	510-615
			Sample Size	0	81	214	18
		F	Mean Length		527	544	547
			Range		457-590	472-626	490-596
			Sample Size	0	97	171	20
2009	7/5-14 (6/24-7/16)	M	Mean Length	566	563	569	575
			Std. Error	15	3	5	7
			Range	541- 594	506- 624	498- 634	539- 625
			Sample Size	3	92	47	12
		F	Mean Length	547	541	546	547
			Std. Error	12	2	4	10
			Range	514- 568	485- 626	502- 597	501- 580
			Sample Size	4	108	40	7
	7/18-22 (7/17-25)	M	Mean Length	549	569	578	612
			Std. Error	15	3	9	-
			Range	519- 587	487- 633	517- 626	612- 612
			Sample Size	4	87	12	1
		F	Mean Length	533	547	548	583
			Std. Error	10	3	5	-
			Range	492- 563	491- 631	521- 585	583- 583
			Sample Size	6	90	15	1
	7/26-8/18 (7/26-9/20)	M	Mean Length	543	563	576	
			Std. Error	11	2	5	
			Range	516- 593	489- 641	525- 655	
			Sample Size	7	182	39	0
		F	Mean Length	525	542	547	562
			Std. Error	9	2	4	-
			Range	497- 572	458- 619	514- 579	562- 562
			Sample Size	9	158	23	1
	Season	M	Mean Length	550	565	573	579
			Range	516- 594	487- 641	498- 655	539- 625
			Sample Size	14	361	98	13
		F	Mean Length	533	544	547	554
			Range	492- 572	458- 631	502- 597	501- 583
			Sample Size	19	356	78	9

Appendix C.2. Mean length (mm) of chum salmon at the Takotna River weir based on escapement samples collected with a fish trap.[a] (page 12 of 12)

Year	Sample Dates (Stratum Dates)	Sex		Age Class 0.2	0.3	0.4	0.5
	Grand Total[b]	M	Mean Length	536	565	584	599
			Range	496- 596	433- 665	494- 698	521- 655
			Sample size	76	2,270	1,250	63
		F	Mean Length	517	540	555	553
			Range	480- 591	465- 624	458- 667	487- 610
			Sample size	201	2,319	944	45

[a] "Season" mean lengths are weighted by the escapement passage in each stratum.

[b] "Grand Total" mean lengths are simple averages of the "Season" mean lengths.

Appendix C.3. Age and sex of chum salmon at the Tatlawiksuk River weir based on escapement samples collected with a fish trap. [a] (page 1 of 6)

Year	Sample Dates (Stratum Dates)	Sample Size	Sex	Age Class 0.2 Esc.	0.2 %	0.3 Esc.	0.3 %	0.4 Esc.	0.4 %	0.5 Esc.	0.5 %	Total Esc.	Total %
1998 [c]	6/29-7/1	166	M		0.0		50.0		13.3		0.6		63.9
			F		0.0		30.7		5.4		0.0		36.1
			Subtotal		0.0		80.7		18.7		0.6		100.0
	7/6-7	164	M		0.0		48.8		11.0		0.0		59.8
			F		0.0		39.0		1.2		0.0		40.2
			Subtotal		0.0		87.8		12.2		0.0		100.0
1999	7/9-11	193	M	0	0.0	1,004	33.2	659	21.8	16	0.5	1,678	55.4
	(6/24-7/13)		F	0	0.0	800	26.4	549	18.1	0	0.0	1,349	44.6
			Subtotal	0	0.0	1,804	59.6	1,208	39.9	16	0.5	3,027	100.0
	7/16-17	194	M	0	0.0	738	38.6	374	19.6	0	0.0	1,112	58.2
	(7/14 - 19)		F	10	0.5	630	33.0	157	8.2	0	0.0	797	41.8
			Subtotal	10	0.5	1,368	71.6	531	27.8	0	0.0	1,909	100.0
	7/21-22	195	M	0	0.0	551	25.1	236	10.8	0	0.0	788	35.9
	(7/20-24)		F	0	0.0	1,125	51.3	282	12.8	0	0.0	1,406	64.1
			Subtotal	0	0.0	1,676	76.4	518	23.6	0	0.0	2,194	100.0
	7/26-28	119	M	0	0.0	529	34.4	103	6.7	13	0.8	645	42.0
	(7/25-31)		F	0	0.0	696	45.4	194	12.6	0	0.0	890	58.0
			Subtotal	0	0.0	1,225	79.8	297	19.3	13	0.8	1,535	100.0
	8/3-8/4	117	M	0	0.0	176	29.9	51	8.5	0	0.0	227	38.5
	(8/1-6)		F	0	0.0	327	55.6	35	6.0	0	0.0	362	61.5
			Subtotal	0	0.0	503	85.5	86	14.5	0	0.0	589	100.0
	8/9	38	M	0	0.0	117	28.9	11	2.7	0	0.0	127	31.6
	(8/7-9/6)		F	0	0.0	265	65.8	10	2.6	0	0.0	276	68.4
			Subtotal	0	0.0	382	94.7	21	5.3	0	0.0	403	100.0
	Season	856	M	0	0.0	3,115	32.3	1,433	14.8	29	0.3	4,576	47.4
			F	10	0.1	3,844	29.8	1,227	12.7	0	0.0	5,081	52.6
			Total	10	0.1	6,959	72.1	2,660	27.5	29	0.3	9,657	100.0
2000	6/25-26	41	M	0	0.0	39	14.7	143	53.6	0	0.0	182	68.3
	(6/15-30)		F	0	0.0	20	7.3	65	24.4	0	0.0	85	31.7
			Subtotal	0	0.0	59	22.0	208	78.0	0	0.0	267	100.0
	7/6,10,12-13	133	M	28	0.8	1,040	27.8	1,012	27.1	0	0.0	2,080	55.6
	(7/1-13)		F	0	0.0	872	23.3	759	20.3	28	0.8	1,659	44.4
			Subtotal	28	0.8	1,912	51.1	1,771	47.4	28	0.8	3,739	100.0
	7/15-16	156	M	21	1.9	305	27.6	128	11.5	0	0.0	454	41.0
	(7/14-18)		F	0	0.0	468	42.3	184	16.7	0	0.0	652	59.0
			Subtotal	21	1.9	773	69.9	312	28.2	0	0.0	1,106	100.0
	7/21-22,24	180	M	24	2.2	374	35.0	190	17.8	0	0.0	589	55.0
	(7/19-25)		F	6	0.6	339	31.7	131	12.2	6	0.6	481	45.0
			Subtotal	30	2.8	713	66.7	321	30.0	6	0.6	1,070	100.0
	7/28-30	195	M	40	5.1	205	26.2	56	7.2	0	0.0	301	38.5
	(7/26-8/13)		F	20	2.6	349	44.6	113	14.3	0	0.0	482	61.5
			Subtotal	60	7.7	554	70.8	169	21.5	0	0.0	783	100.0

Appendix C.3. Age and sex of chum salmon at the Tatlawiksuk River weir based on escapement samples collected with a fish trap. [a] (page 2 of 6)

Year	Sample Dates (Stratum Dates)	Sample Size	Sex	Age Class 0.2 Esc.	0.2 %	0.3 Esc.	0.3 %	0.4 Esc.	0.4 %	0.5 Esc.	0.5 %	Total Esc.	Total %
	Season	705	M	113	1.6	1,964	28.2	1,529	21.9	0	0.0	3,606	51.8
			F	26	0.4	2,047	29.4	1,252	18.0	34	0.5	3,359	48.2
			Total	139	2.0	4,011	57.6	2,781	39.9	34	0.5	6,965	100.0
2001	6/29-30	62	M	0	0.0	140	14.5	389	40.3	0	0.0	529	54.8
	(6/20-30)		F	0	0.0	171	17.8	264	27.4	0	0.0	435	45.2
			Subtotal	0	0.0	311	32.3	653	67.7	0	0.0	964	100.0
	7/2-4	92	M	0	0.0	286	14.1	1,033	51.1	0	0.0	1,319	65.2
	(7/1-6)		F	0	0.0	220	10.9	484	23.9	0	0.0	703	34.8
			Subtotal	0	0.0	506	25.0	1,517	75.0	0	0.0	2,022	100.0
	7/9-11	138	M	0	0.0	1,855	26.1	1,031	14.5	52	0.7	2,938	41.3
	(7/7-13)		F	0	0.0	2,062	29.0	2,113	29.7	0	0.0	4,174	58.7
			Subtotal	0	0.0	3,917	55.1	3,144	44.2	52	0.7	7,112	100.0
	7/16-17	194	M	0	0.0	3,461	42.8	876	10.8	42	0.5	4,378	54.1
	(7/14-20)		F	0	0.0	2,752	34.0	959	11.9	0	0.0	3,711	45.9
			Subtotal	0	0.0	6,213	76.8	1,835	22.7	42	0.5	8,089	100.0
	7/23	64	M	50	1.6	1,249	39.1	250	7.8	0	0.0	1,549	48.4
	(7/21-26)		F	0	0.0	1,349	42.2	299	9.4	0	0.0	1,648	51.6
			Subtotal	50	1.6	2,598	81.3	549	17.2	0	0.0	3,197	100.0
	7/30	66	M	0	0.0	383	33.3	70	6.0	0	0.0	453	39.4
	(7/27-8/1)		F	35	3.0	575	50.0	87	7.6	0	0.0	696	60.6
			Subtotal	35	3.0	958	83.3	157	13.6	0	0.0	1,149	100.0
	8/4-8,13-15	231	M	10	0.9	389	32.9	46	3.9	0	0.0	446	37.7
	(8/2-9/15)		F	5	0.4	692	58.4	41	3.5	0	0.0	738	62.3
			Subtotal	15	1.3	1,081	91.3	87	7.4	0	0.0	1,184	100.0
	Season	847	M	60	0.2	7,763	32.7	3,693	15.6	93	0.4	11,610	49.0
			F	40	0.2	7,819	33.0	4,248	17.9	0	0.0	12,107	51.0
			Total	100	0.4	15,582	65.7	7,941	33.5	93	0.4	23,717	100.0
2002	6/24-27	178	M	0	0.0	1,012	34.9	979	33.7	163	5.6	2,154	74.2
	(6/15-29)		F	16	0.6	375	12.9	294	10.1	65	2.3	750	25.8
			Subtotal	16	0.6	1,387	47.8	1,273	43.8	228	7.9	2,904	100.0
	7/2-4	199	M	0	0.0	1,960	30.7	1,093	17.1	32	0.5	3,085	48.2
	(6/30-7/6)		F	129	2.0	1,928	30.1	1,221	19.1	32	0.5	3,310	51.8
			Subtotal	129	2.0	3,888	60.8	2,314	36.2	64	1.0	6,395	100.0
	7/9-11	192	M	31	0.5	1,457	24.5	1,333	22.4	31	0.5	2,852	47.9
	(7/7-13)		F	217	3.7	1,922	32.3	961	16.1	0	0.0	3,100	52.1
			Subtotal	248	4.2	3,379	56.8	2,294	38.5	31	0.5	5,952	100.0
	7/16-18	220	M	151	2.7	1,456	26.4	828	15.0	0	0.0	2,434	44.1
	(7/14-20)		F	251	4.6	2,183	39.5	628	11.4	25	0.5	3,087	55.9
			Subtotal	402	7.3	3,639	65.9	1,456	26.4	25	0.5	5,521	100.0

Appendix C.3. Age and sex of chum salmon at the Tatlawiksuk River weir based on escapement samples collected with a fish trap. [a] (page 3 of 6)

Year	Sample Dates (Stratum Dates)	Sample Size	Sex	Age Class 0.2 Esc.	0.2 %	0.3 Esc.	0.3 %	0.4 Esc.	0.4 %	0.5 Esc.	0.5 %	Total Esc.	Total %
	7/23-26	212	M	221	8.5	651	25.0	344	13.2	12	0.5	1,229	47.2
	(7/21-28)		F	234	9.0	824	31.6	320	12.3	0	0.0	1,376	52.8
			Subtotal	455	17.5	1,475	56.6	664	25.5	12	0.5	2,605	100.0
	7/30-8/1	188	M	67	10.6	145	22.9	31	4.8	0	0.0	243	38.3
	(7/29-8/3)		F	105	16.5	236	37.2	47	7.4	3	0.5	391	61.7
			Subtotal	172	27.1	381	60.1	78	12.2	3	0.5	634	100.0
	8/5-8	157	M	88	16.6	81	15.3	30	5.7	0	0.0	200	37.6
	(8/4-9/20)		F	132	24.8	149	28.0	51	9.6	0	0.0	331	62.4
			Subtotal	220	41.4	230	43.3	81	15.3	0	0.0	531	100.0
	Season	1,346	M	558	2.3	6,762	27.6	4,637	18.9	238	1.0	12,196	49.7
			F	1,083	4.4	7,617	31.0	3,521	14.3	126	0.5	12,346	50.3
			Total	1,641	6.7	14,379	58.6	8,158	33.2	364	1.5	24,542	100.0
2003[c]	6/30-7/2	57	M										78.9
			F										21.1
			Subtotal									479	100.0
2004	6/21-23	157	M	0	0.0	242	14.7	946	57.3	0	0.0	1,188	72.0
	(6/15-26)		F	0	0.0	116	7.0	337	20.4	11	0.6	463	28.0
			Subtotal	0	0.0	358	21.7	1,283	77.7	11	0.6	1,651	100.0
	6/28-30	173	M	0	0.0	600	21.4	1,314	46.8	16	0.6	1,931	68.8
	(6/27-7/3)		F	16	0.6	406	14.4	438	15.6	16	0.6	876	31.2
			Subtotal	16	0.6	1,006	35.8	1,752	62.4	32	1.2	2,807	100.0
	7/6-8	151	M	248	6.0	1,045	25.2	1,458	35.1	0	0.0	2,751	66.2
	(7/4-10)		F	110	2.6	798	19.2	495	11.9	0	0.0	1,403	33.8
			Subtotal	358	8.6	1,843	44.4	1,953	47.0	0	0.0	4,154	100.0
	7/12-14	189	M	196	4.8	1,025	24.9	1,178	28.6	0	0.0	2,400	58.2
	(7/11-16)		F	240	5.8	1,004	24.3	480	11.6	0	0.0	1,724	41.8
			Subtotal	436	10.6	2,029	49.2	1,658	40.2	0	0.0	4,124	100.0
	7/17,19-21	222	M	642	13.1	1,108	22.5	1,197	24.3	0	0.0	2,947	59.9
	(7/17-24)		F	377	7.6	1,130	23.0	465	9.5	0	0.0	1,972	40.1
			Subtotal	1,019	20.7	2,238	45.5	1,662	33.8	0	0.0	4,919	100.0
	7/26-28	195	M	409	17.4	385	16.4	361	15.4	0	0.0	1,155	49.2
	(7/25-31)		F	361	15.4	614	26.2	217	9.2	0	0.0	1,192	50.8
			Subtotal	770	32.8	999	42.6	578	24.6	0	0.0	2,347	100.0
	8/2-5,9	212	M	234	18.8	217	17.4	194	15.6	0	0.0	645	51.9
	(8/1-9/18)		F	276	22.2	252	20.3	70	5.6	0	0.0	598	48.1
			Subtotal	510	41.0	469	37.7	264	21.2	0	0.0	1,243	100.0
	Season	1,299	M	1,730	8.1	4,623	21.8	6,648	31.3	16	0.1	13,018	61.3
			F	1,380	6.5	4,319	20.3	2,502	11.8	27	0.1	8,227	38.7
			Total	3,110	14.6	8,942	42.1	9,150	43.1	43	0.2	21,245	100.0

Appendix C.3. Age and sex of chum salmon at the Tatlawiksuk River weir based on escapement samples collected with a fish trap. [a] (page 4 of 6)

Year	Sample Dates (Stratum Dates)	Sample Size	Sex	Age Class 0.2 Esc.	0.2 %	0.3 Esc.	0.3 %	0.4 Esc.	0.4 %	0.5 Esc.	0.5 %	Total Esc.	Total %
2005	6/28-29,7/1-3	198	M	0	0.0	4,249	50.5	1,020	12.1	0	0.0	5,269	62.6
	(6/15-7/6)		F	0	0.0	2,975	35.4	170	2.0	0	0.0	3,145	37.4
			Subtotal	0	0.0	7,224	85.9	1,190	14.1	0	0.0	8,414	100.0
	7/11-13	175	M	97	0.6	6,904	40.6	486	2.9	0	0.0	7,487	44.0
	(7/7-14)		F	681	4.0	8,654	50.8	195	1.1	0	0.0	9,530	56.0
			Subtotal	778	4.6	15,558	91.4	681	4.0	0	0.0	17,017	100.0
	7/18-20	165	M	0	0.0	5,518	29.7	789	4.3	0	0.0	6,307	33.9
	(7/15-22)		F	1,126	6.1	10,924	58.8	225	1.2	0	0.0	12,275	66.1
			Subtotal	1,126	6.1	16,442	88.5	1,014	5.5	0	0.0	18,582	100.0
	7/25-27	185	M	0	0.0	2,668	36.7	39	0.5	0	0.0	2,707	37.3
	(7/23-29)		F	628	8.6	3,845	53.0	79	1.1	0	0.0	4,551	62.7
			Subtotal	628	8.6	6,513	89.7	118	1.6	0	0.0	7,258	100.0
	8/1-3	188	M	49	1.6	1,012	33.0	0	0.0	0	0.0	1,061	34.6
	(7/30-8/5)		F	245	8.0	1,762	57.4	0	0.0	0	0.0	2,007	65.4
			Subtotal	294	9.6	2,774	90.4	0	0.0	0	0.0	3,068	100.0
	8/8-10	111	M	9	0.9	403	41.4	18	1.8	0	0.0	430	44.1
	(8/6-12)		F	35	3.6	509	52.3	0	0.0	0	0.0	543	55.9
			Subtotal	44	4.5	912	93.7	18	1.8	0	0.0	973	100.0
	8/15-18	53	M	0	0.0	101	24.6	0	0.0	0	0.0	101	24.5
	(8/13-9/20)		F	23	5.7	278	67.9	8	1.9	0	0.0	309	75.5
			Subtotal	23	5.7	379	92.5	8	1.9	0	0.0	410	100.0
	Season	1,075	M	155	0.3	20,855	37.4	2,351	4.2	0	0.0	23,361	41.9
			F	2,738	4.9	28,947	52.0	676	1.2	0	0.0	32,361	58.1
			Total	2,893	5.2	49,802	89.4	3,027	5.4	0	0.0	55,722	100.0
2006	6/27-29	181	M	0	0.0	721	15.5	2,035	43.6	26	0.6	2781	59.7
	(6/15-7/3)		F	0	0.0	670	14.3	1,210	26.0	0	0.0	1,880	40.3
			Subtotal	0	0.0	1,391	29.8	3,245	69.6	26	0.6	4,661	100.0
	7/7-9	179	M	70	0.6	4,208	33.5	4,138	33.0	0	0.0	8,416	67.0
	(7/4-13)		F	70	0.5	2,385	19.0	1,683	13.4	0	0.0	4,138	33.0
			Subtotal	140	1.1	6,593	52.5	5,821	46.4	0	0.0	12,554	100.0
	7/17-19	176	M	0	0.0	3,094	31.8	1,989	20.5	55	0.6	5,138	52.8
	(7/14-24)		F	110	1.1	3,259	33.5	1,215	12.5	0	0.0	4,585	47.2
			Subtotal	110	1.1	6,353	65.3	3,204	33.0	55	0.6	9,723	100.0
	7/28-30	179	M	123	2.8	1,153	26.3	663	15.1	0	0.0	1,939	44.1
	(7/25-8/2)		F	147	3.3	1,767	40.2	540	12.3	0	0.0	2,454	55.9
			Subtotal	270	6.1	2,920	66.5	1,203	27.4	0	0.0	4,393	100.0
	8/5-9,11-12	220	M	13	1.4	318	32.7	93	9.5	4	0.5	428	44.1
	(8/3-9/20)		F	62	6.3	370	38.2	110	11.4	0	0.0	542	55.9
			Subtotal	75	7.7	688	70.9	203	20.9	4	0.5	970	100.0

Appendix C.3. Age and sex of chum salmon at the Tatlawiksuk River weir based on escapement samples collected with a fish trap. [a] (page 5 of 6)

Year	Sample Dates (Stratum Dates)	Sample Size	Sex	Age Class 0.2 Esc.	0.2 %	0.3 Esc.	0.3 %	0.4 Esc.	0.4 %	0.5 Esc.	0.5 %	Total Esc.	Total %
	Season	935	M	206	0.6	9,494	29.4	8,916	27.6	85	0.3	18,701	57.9
			F	390	1.2	8,451	26.2	4,759	14.7	0	0.0	13,600	42.1
			Total	596	1.8	17,945	55.6	13,675	42.3	85	0.3	32,301	100.0
2007	6/29-30	196	M	24	0.5	1,994	42.3	745	15.8	24	0.5	2787	59.2
	(6/15-7/4)		F	48	1.0	1,418	30.1	408	8.7	48	1.0	1,922	40.8
			Subtotal	72	1.5	3,412	72.4	1,153	24.5	72	1.5	4,709	100.0
	7/8-9	181	M	0	0.0	11,459	43.1	2,938	11.0	147	0.6	14,544	54.7
	(7/5-12)		F	735	2.8	9,549	35.9	1,616	6.1	147	0.5	12,047	45.3
			Subtotal	735	2.8	21,008	79.0	4,554	17.1	294	1.1	26,591	100.0
	7/15	181	M	413	1.7	7,841	31.5	2,338	9.4	0	0.0	10,592	42.5
	(7/13-20)		F	825	3.3	12,517	50.3	963	3.9	0	0.0	14,305	57.5
			Subtotal	1,238	5.0	20,358	81.8	3,301	13.3	0	0.0	24,897	100.0
	7/25-26	180	M	0	0.0	7,258	35.6	2,155	10.6	0	0.0	9,413	46.1
	(7/21-31)		F	340	1.7	9,300	45.5	1,247	6.1	113	0.6	11,001	53.9
			Subtotal	340	1.7	16,558	81.1	3,402	16.7	113	0.6	20,414	100.0
	8/5	182	M	0	0.0	1,823	27.5	547	8.2	0	0.0	2,370	35.7
	(8/1-9/20)		F	401	6.0	3,645	54.9	219	3.3	0	0.0	4,265	64.3
			Subtotal	401	6.0	5,468	82.4	766	11.5	0	0.0	6,635	100.0
	Season	920	M	437	0.5	30,375	36.5	8,723	10.5	171	0.2	39,706	47.7
			F	2,349	2.8	36,429	43.7	4,454	5.3	308	0.4	43,540	52.3
			Total	2,786	3.3	66,804	80.2	13,177	15.8	479	0.6	83,246	100.0
2008	7/8-10	204	M	0	0.0	200	2.4	4,084	50.0	80	1.0	4365	53.4
	(6/15-7/12)		F	0	0.0	521	6.4	3,284	40.2	0	0.0	3,804	46.6
			Subtotal	0	0.0	721	8.8	7,368	90.2	80	1.0	8,169	100.0
	7/13,15,17	188	M	0	0.0	908	8.5	3,804	35.7	341	3.2	5,054	47.3
	(7/13-19)		F	0	0.0	1,306	12.2	4,316	40.4	0	0.0	5,621	52.7
			Subtotal	0	0.0	2,214	20.7	8,120	76.1	341	3.2	10,675	100.0
	7/20-21,23	211	M	0	0.0	567	9.0	2,237	35.5	60	0.9	2,863	45.5
	(7/20-25)		F	0	0.0	1,103	17.5	2,326	37.0	0	0.0	3,430	54.5
			Subtotal	0	0.0	1,670	26.5	4,563	72.5	60	0.9	6,293	100.0
	7/27,30,8/2	196	M	0	0.0	705	12.3	1,646	28.6	118	2.1	2,468	42.9
	(7/26-9/20)		F	147	2.6	1,264	21.9	1,851	32.1	29	0.5	3,291	57.1
			Subtotal	147	2.6	1,969	34.2	3,497	60.7	147	2.6	5,759	100.0
	Season	799	M	0	0.0	2,381	7.7	11,771	38.1	598	1.9	14,750	47.7
			F	147	0.5	4,193	13.6	11,771	38.1	29	0.1	16,146	52.3
			Total	147	0.5	6,574	21.3	23,548	76.2	627	2.0	30,896	100.0

Appendix C.3. Age and sex of chum salmon at the Tatlawiksuk River weir based on escapement samples collected with a fish trap. [a] (page 6 of 6)

Year	Sample Dates (Stratum Dates)	Sample Size	Sex	Age Class 0.2 Esc.	0.2 %	0.3 Esc.	0.3 %	0.4 Esc.	0.4 %	0.5 Esc.	0.5 %	Total Esc.	Total %
2009	7/8,13-14,16	223	M	212	2.7	2,258	28.7	1,517	19.3	459	5.8	4,446	56.5
	(6/15-7/17)		F	70	0.9	2,223	28.3	988	12.5	141	1.8	3,422	43.5
			Subtotal	282	3.6	4,481	57.0	2,505	31.8	600	7.6	7,868	100.0
	7/19-21,23	207	M	216	3.4	2,065	32.4	431	6.8	31	0.5	2,743	43.0
	(7/18-24)		F	493	7.7	2,342	36.7	740	11.6	61	0.9	3,636	57.0
			Subtotal	709	11.1	4,407	69.1	1,171	18.4	92	1.4	6,379	100.0
	7/26-8/4	399	M	258	4.5	1,651	28.8	459	8.0	43	0.8	2,412	42.1
	(7/25-9/20)		F	316	5.5	2,326	40.6	646	11.3	29	0.5	3,316	57.9
			Subtotal	574	10.0	3,977	69.4	1,105	19.3	72	1.3	5,728	100.0
	Season	829	M	686	3.4	5,974	29.9	2,408	12.0	533	2.7	9,600	48.1
			F	879	4.4	6,890	34.5	2,373	11.9	231	1.1	10,375	51.9
			Total	1,565	7.8	12,864	64.4	4,781	23.9	764	3.8	19,975	100.0
	Grand	9,611	M	3,945	1.3	93,306	30.3	52,109	16.9	1,763	0.6	151,124	49.0
	Total [d]		F	9,042	2.9	110,556	35.9	36,783	11.9	755	0.2	157,142	51.0
			Total	12,987	4.2	203,862	66.1	88,898	28.8	2,518	0.8	308,266	100.0

[a] The number of fish in each stratum age and sex category are derived from the sample percentages; discrepancies in sums are attributed to rounding errors.

[b] The number of fish in "Season" summaries are the strata sums; "Season" percentages are derived from the sums.

[c] The weir washed out in 1998 and 2003; escapement estimates are not available.

[d] The number of fish in the "Grand total" are the sum of the "Season" totals; percentages are derived from those sums.

Appendix C.4. Mean length (mm) of chum salmon at the Tatlawiksuk River weir based on escapement samples collected with a fish trap.[a] (page 1 of 14)

Year	Sample Dates (Stratum Dates)	Sex		Age Class 0.2	0.3	0.4	0.5
1998[b]	6/29-7/1	M	Mean Length		594	610	608
			Std. Error		3	9	-
			Range		517- 661	534- 691	608- 608
			Sample Size	0	83	22	1
		F	Mean Length		562	588	
			Std. Error		3	8	
			Range		511- 606	551- 635	
			Sample Size	0	51	9	0
	7/6-7	M	Mean Length		588	614	
			Std. Error		3	5	
			Range		518- 679	585- 668	
			Sample Size	0	80	18	0
		F	Mean Length		555	571	
			Std. Error		2	12	
			Range		509- 595	559- 582	
			Sample Size	0	64	2	0
1999	7/9-11 (6/24-7/13)	M	Mean Length		588	608	581
			Std. Error		4	4	-
			Range		530- 660	540- 655	581- 581
			Sample Size	0	64	42	1
		F	Mean Length		556	565	
			Std. Error		4	6	
			Range		479- 614	510- 668	
			Sample Size	0	51	35	0
	7/16-17 (7/14-19)	M	Mean Length		588	604	
			Std. Error		4	5	
			Range		423- 697	530- 683	
			Sample Size	0	75	38	0
		F	Mean Length	530	565	583	
			Std. Error	-	4	6	
			Range	530- 530	500- 680	542- 620	
			Sample Size	1	64	16	0
	7/21-22 (7/20-24)	M	Mean Length		582	603	
			Std. Error		4	6	
			Range		520- 634	537- 660	
			Sample Size	0	49	21	0
		F	Mean Length		554	570	
			Std. Error		2	6	
			Range		500- 625	520- 633	
			Sample Size	0	100	25	0

Appendix C.4. Mean length (mm) of chum salmon at the Tatlawiksuk River weir based on escapement samples collected with a fish trap.[a] (page 2 of 14)

Year	Sample Dates (Stratum Dates)	Sex		Age Class 0.2	0.3	0.4	0.5
	7/26-28 (7/25-31)	M	Mean Length		583	609	625
			Std. Error		4	9	-
			Range		545- 640	570- 640	625- 625
			Sample Size	0	41	8	1
		F	Mean Length		563	575	
			Std. Error		4	5	
			Range		500- 620	540- 618	
			Sample Size	0	54	15	0
	8/3-8/4 (8/1-6)	M	Mean Length		593	600	
			Std. Error		5	9	
			Range		535- 669	551- 634	
			Sample Size	0	35	10	0
		F	Mean Length		548	557	
			Std. Error		3	14	
			Range		496- 592	500- 610	
			Sample Size	0	65	7	0
	8/9 (8/8-9/6)	M	Mean Length		579	635	
			Std. Error		9	-	
			Range		535- 630	635- 635	
			Sample Size	0	11	1	0
		F	Mean Length		549	555	
			Std. Error		5	-	
			Range		480- 595	555- 555	
			Sample Size	0	25	1	0
	Season	M	Mean Length		586	606	601
			Range		423- 697	530- 683	581- 625
			Sample Size	0	275	120	2
		F	Mean Length	530	557	570	
			Range	530- 530	479- 680	500- 668	
			Sample Size	1	359	99	0
2000	6/25-26 (6/15-30)	M	Mean Length		598	627	
			Std. Error		12	5	
			Range		580- 655	590- 680	
			Sample Size	0	6	22	0
		F	Mean Length		577	588	
			Std. Error		3	6	
			Range		570- 580	565- 625	
			Sample Size	0	3	10	0

Appendix C.4. Mean length (mm) of chum salmon at the Tatlawiksuk River weir based on escapement samples collected with a fish trap.[a] (page 3 of 14)

Year	Sample Dates (Stratum Dates)	Sex		Age Class 0.2	0.3	0.4	0.5
	7/6,10,12-13 (7/1-13)	M	Mean Length	560	586	613	
			Std. Error	-	4	5	
			Range	560- 560	535- 650	540- 660	
			Sample Size	1	37	36	0
		F	Mean Length		562	580	590
			Std. Error		7	8	-
			Range		455- 620	500- 675	590- 590
			Sample Size	0	31	27	1
	7/15-16 (7/14-18)	M	Mean Length	568	590	613	
			Std. Error	15	5	8	
			Range	540- 590	535- 680	550- 675	
			Sample Size	3	43	18	0
		F	Mean Length		552	571	
			Std. Error		4	4	
			Range		500- 670	530- 600	
			Sample Size	0	66	26	0
	7/21-22,24 (7/19-25)	M	Mean Length	574	590	605	
			Std. Error	2	4	5	
			Range	570- 580	520- 680	550- 670	
			Sample Size	4	63	32	0
		F	Mean Length	520	557	562	590
			Std. Error	-	3	4	-
			Range	520- 520	490- 620	540- 600	590- 590
			Sample Size	1	57	22	1
	7/28-30 (7/26-8/13)	M	Mean Length	539	584	598	
			Std. Error	9	4	11	
			Range	490- 590	500- 655	540- 670	
			Sample Size	10	51	14	0
		F	Mean Length	531	542	567	
			Std. Error	8	3	7	
			Range	515- 560	480- 610	480- 640	
			Sample Size	5	87	28	0
	Season	M	Mean Length	557	587	613	
			Range	490- 590	500- 680	540- 680	
			Sample Size	18	200	122	0
		F	Mean Length	528	555	576	590
			Range	515- 560	455- 670	480- 675	590- 590
			Sample Size	6	244	113	2

Appendix C.4. Mean length (mm) of chum salmon at the Tatlawiksuk River weir based on escapement samples collected with a fish trap.[a] (page 4 of 14)

Year	Sample Dates (Stratum Dates)	Sex		Age Class 0.2	0.3	0.4	0.5
2001	6/29-30 (6/20-30)	M	Mean Length		599	608	
			Std. Error		10	7	
			Range		560- 645	520- 680	
			Sample Size	0	9	25	0
		F	Mean Length		556	588	
			Std. Error		7	5	
			Range		505- 590	550- 625	
			Sample Size	0	11	17	0
	7/2-4 (7/1-6)	M	Mean Length		589	594	
			Std. Error		7	4	
			Range		556- 632	522- 687	
			Sample Size	0	13	47	0
		F	Mean Length		553	568	
			Std. Error		7	5	
			Range		512- 576	536- 615	
			Sample Size	0	10	22	0
	7/9-11 (7/7-13)	M	Mean Length		588	611	676
			Std. Error		5	6	-
			Range		540- 637	564- 657	676- 676
			Sample Size	0	36	20	1
		F	Mean Length		566	581	
			Std. Error		3	4	
			Range		529- 613	534- 626	
			Sample Size	0	40	41	0
	7/16-17 (7/14-20)	M	Mean Length		581	600	624
			Std. Error		3	8	-
			Range		489- 667	513- 656	624- 624
			Sample Size	0	83	21	1
		F	Mean Length		550	565	
			Std. Error		3	5	
			Range		488- 624	528- 611	
			Sample Size	0	66	23	0
	7/23 (7/21-26)	M	Mean Length	518	575	574	
			Std. Error	-	7	5	
			Range	518- 518	526- 646	558- 586	
			Sample Size	1	25	5	0
		F	Mean Length		536	561	
			Std. Error		5	8	
			Range		485- 587	544- 598	
			Sample Size	0	27	6	0

Appendix C.4. Mean length (mm) of chum salmon at the Tatlawiksuk River weir based on escapement samples collected with a fish trap.[a] (page 5 of 14)

Year	Sample Dates (Stratum Dates)	Sex		Age Class 0.2	0.3	0.4	0.5
	7/30 (7/27-8/1)	M	Mean Length		573	551	
			Std. Error		5	7	
			Range		527- 614	533- 566	
			Sample Size	0	22	4	0
		F	Mean Length	507	540	528	
			Std. Error	3	4	13	
			Range	504- 509	483- 588	494- 565	
			Sample Size	2	33	5	0
	8/4-8,13-15 (8/2-9/15)	M	Mean Length	543	565	582	
			Std. Error	13	4	12	
			Range	530- 556	458- 641	537- 626	
			Sample Size	2	76	9	0
		F	Mean Length	492	533	550	
			Std. Error	-	2	7	
			Range	492- 492	454- 654	516- 573	
			Sample Size	1	135	8	0
	Season	M	Mean Length	522	581	599	653
			Range	518- 556	458- 667	513- 687	624- 676
			Sample Size	3	264	131	2
		F	Mean Length	505	550	574	
			Range	492- 509	454- 654	494- 626	
			Sample Size	3	322	122	0
2002	6/24-27 (6/15-29)	M	Mean Length		594	612	603
			Std. Error		3	3	9
			Range		528- 665	536- 661	549- 645
			Sample Size	0	62	60	10
		F	Mean Length	527	580	597	592
			Std. Error	-	6	5	11
			Range	527- 527	520- 644	563- 658	566- 616
			Sample Size	1	23	18	4
	7/2-4 (6/30-7/6)	M	Mean Length		584	595	633
			Std. Error		4	7	-
			Range		525- 661	521- 685	633- 633
			Sample Size	0	61	34	1
		F	Mean Length	549	554	568	578
			Std. Error	11	4	4	-
			Range	521- 571	499- 654	530- 623	578- 578
			Sample Size	4	60	38	1

Appendix C.4. Mean length (mm) of chum salmon at the Tatlawiksuk River weir based on escapement samples collected with a fish trap.[a] (page 6 of 14)

Year	Sample Dates (Stratum Dates)	Sex		Age Class 0.2	0.3	0.4	0.5
	7/9-11 (7/7-13)	M	Mean Length	582	586	605	594
			Std. Error	-	5	6	-
			Range	582- 582	522- 677	502- 673	594- 594
			Sample Size	1	47	43	1
		F	Mean Length	528	545	563	
			Std. Error	7	4	5	
			Range	495- 547	448- 610	516- 607	
			Sample Size	7	62	31	0
	7/16-18 (7/14-20)	M	Mean Length	548	587	605	
			Std. Error	9	4	7	
			Range	526- 578	497- 685	524- 677	
			Sample Size	6	58	33	0
		F	Mean Length	530	551	565	583
			Std. Error	11	3	5	-
			Range	466- 578	470- 605	508- 604	583- 583
			Sample Size	10	87	25	1
	7/23-26 (7/21-28)	M	Mean Length	536	573	594	594
			Std. Error	5	6	11	-
			Range	500- 591	402- 671	448- 684	594- 594
			Sample Size	18	53	28	1
		F	Mean Length	501	532	548	
			Std. Error	6	3	4	
			Range	449- 555	480- 614	505- 584	
			Sample Size	19	67	26	0
	7/30-8/1 (7/29-8/3)	M	Mean Length	537	559	569	
			Std. Error	6	4	9	
			Range	500- 592	507- 617	537- 616	
			Sample Size	20	43	9	0
		F	Mean Length	512	526	526	473
			Std. Error	4	4	6	-
			Range	452- 547	440- 691	480- 559	473- 473
			Sample Size	31	70	14	1
	8/5-8 (8/4-9/20)	M	Mean Length	526	553	564	
			Std. Error	5	5	15	
			Range	481- 562	501- 605	473- 618	
			Sample Size	26	24	9	0
		F	Mean Length	499	517	548	
			Std. Error	4	5	8	
			Range	411- 555	448- 606	497- 594	
			Sample Size	39	44	15	0

Appendix C.4. Mean length (mm) of chum salmon at the Tatlawiksuk River weir based on escapement samples collected with a fish trap.[a] (page 7 of 14)

Year	Sample Dates (Stratum Dates)	Sex		Age Class 0.2	0.3	0.4	0.5
	Season	M	Mean Length	540	585	603	605
			Range	481- 592	402- 685	448- 685	549- 645
			Sample Size	71	348	216	13
		F	Mean Length	520	548	566	584
			Range	411- 578	440- 691	480- 658	473- 616
			Sample Size	111	413	167	7
2003[b]	6/30-7/2	M	Mean Length		597	614	599
			Range		523- 672	505- 689	584- 613
			Sample Size	0	37	6	2
		F	Mean Length		562	600	
			Range		513- 618	600- 600	
			Sample Size	0	11	1	0
2004	6/21-23 (6/15-26)	M	Mean Length		577	599	
			Std. Error		5	3	
			Range		528- 610	504- 663	
			Sample Size	0	23	90	0
		F	Mean Length		552	575	578
			Std. Error		7	4	-
			Range		509- 597	519- 638	578- 578
			Sample Size	0	11	32	1
	6/28-30 (6/27-7/3)	M	Mean Length		580	596	593
			Std. Error		5	3	-
			Range		500- 632	534- 658	593- 593
			Sample Size	0	37	81	1
		F	Mean Length	585	559	564	553
			Std. Error	-	5	5	-
			Range	585- 585	524- 614	529- 612	553- 553
			Sample Size	1	25	27	1
	7/6-8 (7/4-10)	M	Mean Length	552	577	594	
			Std. Error	6	4	4	
			Range	526- 583	512- 632	520- 664	
			Sample Size	9	38	53	0
		F	Mean Length	574	550	559	
			Std. Error	5	5	3	
			Range	560- 583	494- 602	539- 583	
			Sample Size	4	29	18	0

Appendix C.4. Mean length (mm) of chum salmon at the Tatlawiksuk River weir based on escapement samples collected with a fish trap.[a] (page 8 of 14)

Year	Sample Dates (Stratum Dates)	Sex		Age Class 0.2	0.3	0.4	0.5
	7/12-14 (7/11-16)	M	Mean Length	544	573	590	
			Std. Error	6	4	4	
			Range	525- 571	524- 652	513- 648	
			Sample Size	9	47	54	0
		F	Mean Length	511	544	562	
			Std. Error	8	4	5	
			Range	452- 545	504- 626	517- 622	
			Sample Size	11	46	22	0
	7/17,19-21 (7/17-24)	M	Mean Length	546	568	599	
			Std. Error	6	4	5	
			Range	450- 598	514- 623	509- 682	
			Sample Size	29	50	54	0
		F	Mean Length	517	545	556	
			Std. Error	5	3	6	
			Range	475- 548	494- 608	491- 608	
			Sample Size	17	51	21	0
	7/26-28 (7/25-31)	M	Mean Length	540	556	588	
			Std. Error	3	5	6	
			Range	500- 598	484- 621	520- 654	
			Sample Size	34	32	30	0
		F	Mean Length	522	533	555	
			Std. Error	5	3	6	
			Range	468- 590	480- 604	512- 595	
			Sample Size	30	51	18	0
	8/2-5,9 (8/1-9/18)	M	Mean Length	526	552	583	
			Std. Error	3	6	5	
			Range	484- 560	486- 632	509- 643	
			Sample Size	40	37	33	0
		F	Mean Length	501	530	531	
			Std. Error	5	5	14	
			Range	403- 568	403- 639	402- 594	
			Sample Size	47	43	12	0
	Season	M	Mean Length	543	572	595	593
			Range	450- 598	484- 652	504- 682	593- 593
			Sample Size	121	264	395	1
		F	Mean Length	519	544	561	563
			Range	403- 590	403- 639	402- 638	553- 578
			Sample Size	110	256	150	2

Appendix C.4. Mean length (mm) of chum salmon at the Tatlawiksuk River weir based on escapement samples collected with a fish trap.[a] (page 9 of 14)

Year	Sample Dates (Stratum Dates)	Sex		Age Class 0.2	0.3	0.4	0.5
2005	6/28-29,7/1-3 (6/15-7/6)	M	Mean Length		589	614	
			Std. Error		3	7	
			Range		495- 675	533- 680	
			Sample Size	0	100	24	0
		F	Mean Length		563	567	
			Std. Error		4	15	
			Range		500- 635	540- 596	
			Sample Size	0	70	4	0
	7/11-13 (7/7-14)	M	Mean Length	535	569	596	
			Std. Error	-	3	12	
			Range	535- 535	498- 640	550- 624	
			Sample Size	1	71	5	0
		F	Mean Length	519	550	582	
			Std. Error	7	3	19	
			Range	482- 535	479- 600	563- 600	
			Sample Size	7	89	2	0
	7/18-20 (7/15-22)	M	Mean Length		570	607	
			Std. Error		5	13	
			Range		503- 660	547- 662	
			Sample Size	0	49	7	0
		F	Mean Length	536	550	581	
			Std. Error	7	3	11	
			Range	509- 570	394- 610	570- 592	
			Sample Size	10	97	2	0
	7/25-27 (7/23-29)	M	Mean Length		562	627	
			Std. Error		4	-	
			Range		484- 650	627- 627	
			Sample Size	0	68	1	0
		F	Mean Length	508	531	594	
			Std. Error	4	3	39	
			Range	478- 534	458- 600	555- 632	
			Sample Size	16	98	2	0
	8/1-3 (7/30-8/5)	M	Mean Length	509	551		
			Std. Error	12	5		
			Range	489- 531	407- 617		
			Sample Size	3	62	0	0
		F	Mean Length	501	518		
			Std. Error	6	3		
			Range	466- 540	455- 591		
			Sample Size	15	108	0	0

Appendix C.4. Mean length (mm) of chum salmon at the Tatlawiksuk River weir based on escapement samples collected with a fish trap.[a] (page 10 of 14)

Year	Sample Dates (Stratum Dates)	Sex		Age Class 0.2	0.3	0.4	0.5
	8/8-10 (8/6-12)	M	Mean Length	531	554	584	
			Std. Error	-	4	19	
			Range	531- 531	481- 625	565- 602	
			Sample Size	1	46	2	0
		F	Mean Length	478	517		
			Std. Error	19	4		
			Range	446- 533	445- 577		
			Sample Size	4	58	0	0
	8/15-18 (8/13-9/20)	M	Mean Length		575		
			Std. Error		10		
			Range		535- 656		
			Sample Size	0	13	0	0
		F	Mean Length	498	525	589	
			Std. Error	6	4	-	
			Range	490- 511	480- 586	589- 589	
			Sample Size	3	36	1	0
	Season	M	Mean Length	527	571	608	
			Range	489- 535	407- 675	533- 680	
			Sample Size	5	409	39	0
		F	Mean Length	521	546	579	
			Range	446- 570	394- 635	540- 632	
			Sample Size	55	556	11	0
2006	6/27-29 (6/15-7/3)	M	Mean Length		571	589	615
			Std. Error		4	3	-
			Range		535- 615	530- 665	615- 615
			Sample Size	0	28	79	1
		F	Mean Length		543	560	
			Std. Error		5	4	
			Range		505- 605	510- 610	
			Sample Size	0	26	47	0
	7/7-9 (7/4-13)	M	Mean Length	485	566	593	
			Std. Error	-	3	4	
			Range	485- 485	525- 610	540- 690	
			Sample Size	1	60	59	0
		F	Mean Length	525	551	555	
			Std. Error	-	5	5	
			Range	525- 525	515- 650	510- 615	
			Sample Size	1	34	24	0

Appendix C.4. Mean length (mm) of chum salmon at the Tatlawiksuk River weir based on escapement samples collected with a fish trap.[a] (page 11 of 14)

Year	Sample Dates (Stratum Dates)	Sex		Age Class 0.2	0.3	0.4	0.5
	7/17-19 (7/14-24)	M	Mean Length		572	579	560
			Std. Error		4	5	-
			Range		500- 635	505- 635	560- 560
			Sample Size	0	56	36	1
		F	Mean Length	513	540	554	
			Std. Error	23	3	7	
			Range	490- 535	475- 585	495- 610	
			Sample Size	2	59	22	0
	7/28-30 (7/25-8/2)	M	Mean Length	505	553	579	
			Std. Error	17	5	8	
			Range	440- 535	480- 660	500- 660	
			Sample Size	5	47	27	0
		F	Mean Length	511	531	546	
			Std. Error	4	3	6	
			Range	500- 520	490- 590	490- 595	
			Sample Size	6	72	22	0
	8/5-9,11-12 (8/3-9/20)	M	Mean Length	500	550	582	550
			Std. Error	23	3	8	-
			Range	460- 540	480- 610	510- 650	550- 550
			Sample Size	3	72	21	1
		F	Mean Length	508	524	549	
			Std. Error	7	3	5	
			Range	465- 565	460- 600	490- 590	
			Sample Size	14	84	25	0
	Season	M	Mean Length	498	566	588	576
			Range	440- 540	480- 660	500- 690	550- 615
			Sample Size	9	263	222	3
		F	Mean Length	513	541	555	
			Range	465- 565	460- 650	490- 615	
			Sample Size	23	275	140	0
2007	6/29-30 (6/15-7/4)	M	Mean Length	533	569	577	628
			Std. Error	-	3	4	-
			Range	533- 533	515- 632	518- 620	628- 628
			Sample Size	1	83	31	1
		F	Mean Length	547	549	557	586
			Std. Error	7	3	7	2
			Range	540- 553	485- 608	510- 615	584- 588
			Sample Size	2	59	17	2

Appendix C.4. Mean length (mm) of chum salmon at the Tatlawiksuk River weir based on escapement samples collected with a fish trap.[a] (page 12 of 14)

Year	Sample Dates (Stratum Dates)	Sex		Age Class 0.2	0.3	0.4	0.5
	7/8-9 (7/5-12)	M	Mean Length		564	580	574
			Std. Error		3	6	-
			Range		503- 626	543- 639	574- 574
			Sample Size	0	78	20	1
		F	Mean Length	520	540	535	565
			Std. Error	16	3	7	-
			Range	493- 577	499- 595	503- 567	565- 565
			Sample Size	5	65	11	1
	7/15 (7/13-20)	M	Mean Length	551	562	574	
			Std. Error	7	4	6	
			Range	542- 564	512- 655	537- 615	
			Sample Size	3	57	17	0
		F	Mean Length	525	537	530	
			Std. Error	8	3	12	
			Range	504- 553	477- 611	481- 569	
			Sample Size	6	91	7	0
	7/25-26 (7/21-31)	M	Mean Length		555	563	
			Std. Error		4	10	
			Range		447- 610	435- 650	
			Sample Size	0	64	19	0
		F	Mean Length	529	535	528	497
			Std. Error	19	3	11	-
			Range	491- 549	475- 586	437- 572	497- 497
			Sample Size	3	82	11	1
	8/5 (8/1-9/20)	M	Mean Length		553	553	
			Std. Error		3	9	
			Range		492- 608	479- 613	
			Sample Size	0	50	15	0
		F	Mean Length	502	527	537	
			Std. Error	11	3	5	
			Range	422- 558	469- 595	522- 552	
			Sample Size	11	100	6	0
	Season	M	Mean Length	550	561	572	582
			Range	533- 564	447- 655	435- 650	574- 628
			Sample Size	4	332	102	2
		F	Mean Length	521	537	534	543
			Range	422- 577	469- 611	437- 615	497- 588
			Sample Size	27	397	52	4

Appendix C.4. Mean length (mm) of chum salmon at the Tatlawiksuk River weir based on escapement samples collected with a fish trap.[a] (page 13 of 14)

Year	Sample Dates (Stratum Dates)	Sex		Age Class 0.2	0.3	0.4	0.5
2008	7/8-10 (6/15-7/12)	M	Mean Length		585	590	610
			Std. Error		7	3	13
			Range		574-608	532-648	597-622
			Sample Size	0	5	102	2
		F	Mean Length		558	563	
			Std. Error		7	3	
			Range		515-598	350-637	
			Sample Size	0	13	82	0
	7/13,15,17 (7/13-19)	M	Mean Length		561	583	589
			Std. Error		7	3	7
			Range		510-635	523-648	568-610
			Sample Size	0	16	67	6
		F	Mean Length		520	543	
			Std. Error		8	4	
			Range		445-607	409-608	
			Sample Size	0	23	76	0
	7/20-21,23 (7/20-25)	M	Mean Length		556	570	590
			Std. Error		8	4	-
			Range		494-620	507-654	590-590
			Sample Size	0	19	75	2
		F	Mean Length		531	539	
			Std. Error		5	3	
			Range		459-589	470-607	
			Sample Size	0	37	78	0
	7/27,30,8/2 (7/26-9/20)	M	Mean Length		561	560	537
			Std. Error		7	4	10
			Range		500-655	501-659	521-656
			Sample Size	0	24	56	4
		F	Mean Length	509	538	541	578
			Std. Error	15	3	4	-
			Range	473-550	500-575	454-610	578-578
			Sample Size	5	43	63	1
	Season	M	Mean Length		562	580	582
			Range		494-655	501-659	521-622
			Sample Size	0	64	300	14
		F	Mean Length	509	533	548	578
			Range	473-550	445-607	350-637	578-578
			Sample Size	5	116	299	1

Appendix C.4. Mean length (mm) of chum salmon at the Tatlawiksuk River weir based on escapement samples collected with a fish trap.[a] (page 14 of 14)

Year	Sample Dates (Stratum Dates)	Sex		Age Class 0.2	0.3	0.4	0.5
2009	7/8,13-14,16 (6/15-7/17)	M	Mean Length	534	566	572	578
			Std. Error	14	4	5	6
			Range	490- 583	443- 639	512- 643	556- 617
			Sample Size	6	64	43	13
		F	Mean Length	514	529	538	537
			Std. Error	18	3	5	10
			Range	496- 531	477- 577	475- 583	509- 557
			Sample Size	2	63	28	4
	7/19-21,23 (7/18-24)	M	Mean Length	542	553	564	543
			Std. Error	10	4	9	-
			Range	515- 581	438- 620	509- 626	543- 543
			Sample Size	7	67	14	1
		F	Mean Length	507	526	542	531
			Std. Error	6	3	4	17
			Range	444- 531	449- 585	509- 586	514- 547
			Sample Size	16	76	24	2
	7/26-8/4 (7/25-9/20)	M	Mean Length	505	555	549	552
			Std. Error	10	3	7	23
			Range	445- 576	480- 630	463- 630	520- 598
			Sample Size	18	115	32	3
		F	Mean Length	496	518	521	516
			Std. Error	7	2	5	12
			Range	442- 552	450- 627	430- 607	504- 528
			Sample Size	22	162	45	2
	Season	M	Mean Length	526	558	566	574
			Range	445- 583	438- 639	463- 643	520- 617
			Sample Size	31	246	89	17
		F	Mean Length	503	524	535	533
			Range	442- 552	449- 627	430- 607	504- 557
			Sample Size	40	301	97	8
	Grand Total [c]	M	Mean Length	533	573	593	596
			Range	440- 590	407- 697	435- 687	550- 676
			Sample size	262	2,665	1,736	54
		F	Mean Length	517	544	560	565
			Range	422- 577	394- 680	437- 675	473- 616
			Sample size	381	3,239	1,250	24

a "Season" mean lengths are weighted by the escapement passage in each stratum.

b The weir washed out in 1998; this year is excluded from the "Grand Total"

c "Grand Total" mean lengths are simple averages of the "Season" mean lengths.

Appendix C.5. Age and sex of chum salmon at the Kogrukluk River weir based on escapement samples collected with a fish trap. [ab] (page 1 of 13)

Year	Sample Dates (Stratum Dates)	Sample Size	Sex	Age Class 0.2 Esc.	0.2 %	0.3 Esc.	0.3 %	0.4 Esc.	0.4 %	0.5 Esc.	0.5 %	Total Esc.	Total %
1971 [c]	7/13,15, 16-19,21	264	M		0.0		55.6		22.3		0.8		78.7
			F		0.0		15.2		6.1		0.0		21.3
			Total		0.0		70.8		28.4		0.8		100.0
1972 [c]	7/29-8/5	150	M		1.3		20.7		40.7		0.7		63.4
			F		1.3		18.0		17.3		0.0		36.6
			Total		2.6		38.7		58.0		0.7		100.0
1973 [c]	8/2-3	47	M		0.0		31.9		14.9		2.1		48.9
			F		2.1		38.4		10.6		0.0		51.1
			Total		2.1		70.3		25.5		2.1		100.0
1976	6/29-7/7 (6/23-7/7)	76	M	22	1.3	394	23.7	920	55.3	0	0.0	1,336	80.3
			F	0	0.0	153	9.2	175	10.5	0	0.0	328	19.7
			Subtotal	22	1.3	547	32.9	1,095	65.8	0	0.0	1,664	100.0
	7/8-16 (7/8-18)	79	M	0	0.0	1,370	30.4	2,227	49.4	113	2.5	3,710	82.3
			F	0	0.0	514	11.4	284	6.3	0	0.0	798	17.7
			Subtotal	0	0.0	1,884	41.8	2,511	55.7	113	2.5	4,508	100.0
	7/19-22, 7/24-30 (7/19-8/12)	64	M	0	0.0	366	18.8	1,185	60.9	0	0.0	1,550	79.7
			F	0	0.0	274	14.1	123	6.3	0	0.0	395	20.3
			Subtotal	0	0.0	640	32.9	1,307	67.2	0	0.0	1,945	100.0
	Season	219	M	22	0.3	2,130	26.2	4,332	53.4	113	1.4	6,596	81.3
			F	0	0.0	941	11.6	581	7.2	0	0.0	1,521	18.7
			Total	22	0.3	3,072	37.8	4,913	60.5	113	1.4	8,117	100.0
1978	6/28,7/1,3,6-7 (6/16-7/8)	114	M	0	0.0	1,968	13.2	7,742	51.7	0	0.0	9,710	64.9
			F	0	0.0	1,706	11.4	3,543	23.7	0	0.0	5,249	35.1
			Subtotal	0	0.0	3,674	24.6	11,285	75.4	0	0.0	14,959	100.0
	7/10,13,16,19 (7/9-20)	112	M	0	0.0	7,505	27.7	6,053	22.3	0	0.0	13,559	50.0
			F	0	0.0	7,748	28.6	5,811	21.5	0	0.0	13,558	50.0
			Subtotal	0	0.0	15,253	56.3	11,864	43.8	0	0.0	27,117	100.0
	7/22,25,28,31 (7/21-8/20)	96	M	189	3.2	2,962	49.0	441	7.3	0	0.0	3,592	59.4
			F	189	3.1	2,142	35.4	126	2.1	0	0.0	2,457	40.6
			Subtotal	378	6.3	5,104	84.4	567	9.4	0	0.0	6,049	100.0
	Season	322	M	189	0.4	12,435	25.8	14,236	29.6	0	0.0	26,860	55.8
			F	189	0.4	11,596	24.1	9,480	19.7	0	0.0	21,265	44.2
			Total	378	0.8	24,031	49.9	23,716	49.3	0	0.0	48,125	100.0
1980	7/3-6 (7/2-6)	37	M	0	0.0	980	83.8	63	5.4	0	0.0	1,043	89.2
			F	0	0.0	95	8.1	32	2.7	0	0.0	126	10.8
			Subtotal	0	0.0	1,074	91.9	95	8.1	0	0.0	1,169	100.0
	7/7-10 (7/7-10)	46	M	0	0.0	382	80.4	52	10.9	0	0.0	434	91.3
			F	0	0.0	31	6.5	10	2.2	0	0.0	41	8.7
			Subtotal	0	0.0	413	86.9	62	13.1	0	0.0	475	100.0
	Season	83	M	0	0.0	1,362	82.8	115	7.0	0	0.0	1,476	89.8
			F	0	0.0	126	7.6	42	2.6	0	0.0	168	10.2
			Total	0	0.0	1,487	90.5	157	9.5	0	0.0	1,644	100.0

Appendix C.5. Age and sex of chum salmon at the Kogrukluk River weir based on escapement samples collected with a fish trap. [ab] (page 2 of 13)

Year	Sample Dates (Stratum Dates)	Sample Size	Sex	Age Class 0.2 Esc.	0.2 %	0.3 Esc.	0.3 %	0.4 Esc.	0.4 %	0.5 Esc.	0.5 %	Total Esc.	Total %
1981	6/29; 7/4,6	108	M	0	0.0	1,144	2.8	21,570	52.8	368	0.9	23,082	56.5
	(6/15-7/13)		F	0	0.0	3,391	8.3	14,380	35.2	0	0.0	17,771	43.5
			Subtotal	0	0.0	4,535	11.1	35,951	88.0	368	0.9	40,853	100.0
	7/14,20,22,	51	M	0	0.0	2,208	13.7	8,847	54.9	0	0.0	11,055	68.6
	27-28,30		F	0	0.0	1,579	9.8	3,481	21.6	0	0.0	5,060	31.4
	(7/14-8/5)		Subtotal	0	0.0	3,787	23.5	12,328	76.5	0	0.0	16,115	100.0
	8/6	32	M	0	0.0	211	53.1	99	25.0	0	0.0	310	78.1
	(8/6-8/27)		F	0	0.0	75	18.8	12	3.1	0	0.0	87	21.9
			Subtotal	0	0.0	285	71.9	112	28.1	0	0.0	397	100.0
	Season	191	M	0	0.0	3,562	6.2	30,517	53.2	368	0.6	34,447	60.0
			F	0	0.0	5,045	8.8	17,873	31.2	0	0.0	22,918	40.0
			Total	0	0.0	8,607	15.0	48,390	84.4	368	0.6	57,365	100.0
1982	7/10-13	54	M	0	0.0	9,621	24.1	9,621	24.1	0	0.0	19,202	48.1
	(6/17-7/13)		F	0	0.0	10,339	25.9	10,339	25.9	0	0.0	20,718	51.9
			Subtotal	0	0.0	19,960	50.0	19,960	50.0	0	0.0	39,920	100.0
	7/14-25	113	M	0	0.0	8,028	38.9	3,281	15.9	0	0.0	11,330	54.9
	(7/14-7/25)		F	0	0.0	7,677	37.2	1,651	8.0	0	0.0	9,307	45.1
			Subtotal	0	0.0	15,705	76.1	4,932	23.9	0	0.0	20,637	100.0
	7/26-8/4	92	M	0	0.0	1,721	48.9	574	16.3	0	0.0	2,295	65.2
	(7/26-8/22)		F	0	0.0	996	28.3	190	5.4	39	1.1	1,225	34.8
			Subtotal	0	0.0	2,717	77.2	764	21.7	39	1.1	3,520	100.0
	Season	259	M	0	0.0	19,370	30.2	13,476	21.0	0	0.0	32,826	51.2
			F	0	0.0	19,012	29.7	12,180	19.0	39	0.1	31,251	48.8
			Total	0	0.0	38,382	59.9	25,656	40.0	39	0.1	64,077	100.0
1983 [d]	6/24-27	95	M		0.0		6.3		56.8		2.1		65.2
			F		0.0		1.1		31.6		2.1		34.8
			Subtotal		0.0		7.4		88.4		4.2		100.0
	6/28-7/1	111	M		0.0		7.2		60.4		0.9		68.5
			F		0.0		1.8		29.7		0.0		31.5
			Subtotal		0.0		9.0		90.1		0.9		100.0
	7/2,6-8	113	M		0.0		4.4		48.7		1.8		54.9
			F		0.0		8.8		35.4		0.9		45.1
			Subtotal		0.0		13.2		84.1		2.7		100.0
	7/9-12	56	M		0.0		3.6		41.1		14.3		59.0
			F		0.0		7.1		32.1		1.8		41.0
			Subtotal		0.0		10.7		73.2		16.1		100.0
	8/13-16	83	M		0.0		24.1		18.1		0.0		42.2
			F		1.2		38.5		18.1		0.0		57.8
			Subtotal		1.2		62.6		36.2		0.0		100.0
	8/17-9/13	26	M		0.0		26.9		19.2		0.0		46.1
			F		3.8		38.6		11.5		0.0		53.9
			Subtotal		3.8		65.5		30.7		0.0		100.0

Appendix C.5. Age and sex of chum salmon at the Kogrukluk River weir based on escapement samples collected with a fish trap. [ab] (page 3 of 13)

Year	Sample Dates (Stratum Dates)	Sample Size	Sex	Age Class 0.2 Esc.	0.2 %	0.3 Esc.	0.3 %	0.4 Esc.	0.4 %	0.5 Esc.	0.5 %	Total Esc.	Total %
	Season	484	M		0.0		9.9		45.3		2.7		57.9
			F		0.4		12.2		28.7		0.8		42.1
			Total		0.4		22.1		74.0		3.5		100.0
1984	6/19,21,23-25	52	M	0	0.0	10	15.4	28	42.3	5	7.7	43	65.4
	(6/19-25)		F	0	0.0	4	5.8	17	25.0	3	3.8	23	34.6
			Subtotal	0	0.0	14	21.2	44	67.3	8	11.5	66	100.0
	6/26-29	116	M	0	0.0	89	25.9	110	31.9	30	8.6	229	66.4
	(6/26-29)		F	0	0.0	48	13.8	53	15.5	15	4.3	116	33.6
			Subtotal	0	0.0	137	39.7	164	47.4	45	12.9	345	100.0
	6/30-7/3	115	M	0	0.0	1,186	42.6	604	21.7	120	4.3	1,913	68.7
	(6/30-7/3)		F	0	0.0	460	16.5	315	11.3	97	3.5	872	31.3
			Subtotal	0	0.0	1,646	59.1	919	33.0	217	7.8	2,785	100.0
	7/4-7	112	M	0	0.0	2,656	46.4	664	11.6	103	1.8	3,423	59.8
	(7/4-7)		F	0	0.0	1,328	23.2	922	16.1	52	0.9	2,301	40.2
			Subtotal	0	0.0	3,984	69.6	1,586	27.7	155	2.7	5,724	100.0
	7/8-11	116	M	0	0.0	3,261	51.7	763	12.1	0	0.0	4,024	63.8
	(7/8-11)		F	0	0.0	1,634	25.9	599	9.5	57	0.9	2,283	36.2
			Subtotal	0	0.0	4,894	77.6	1,362	21.6	57	0.9	6,307	100.0
	7/12-15	117	M	0	0.0	4,384	45.3	1,074	11.1	0	0.0	5,458	56.4
	(7/12-15)		F	0	0.0	3,474	35.9	745	7.7	0	0.0	4,220	43.6
			Subtotal	0	0.0	7,859	81.2	1,819	18.8	0	0.0	9,678	100.0
	7/16-19	114	M	0	0.0	3,527	54.4	454	7.0	0	0.0	3,981	61.4
	(7/16-19)		F	0	0.0	2,334	36.0	169	2.6	0	0.0	2,502	38.6
			Subtotal	0	0.0	5,861	90.4	622	9.6	0	0.0	6,483	100.0
	7/20-23	112	M	0	0.0	3,943	66.1	376	6.3	0	0.0	4,313	72.3
	(7/20-23)		F	0	0.0	1,491	25.0	107	1.8	54	0.9	1,652	27.7
			Subtotal	0	0.0	5,434	91.1	483	8.1	54	0.9	5,965	100.0
	7/24-27	113	M	0	0.0	1,259	63.7	105	5.3	0	0.0	1,363	69.0
	(7/24-27)		F	0	0.0	595	30.1	18	0.9	0	0.0	613	31.0
			Subtotal	0	0.0	1,853	93.8	123	6.2	0	0.0	1,976	100.0
	7/28-31	111	M	0	0.0	954	77.5	33	2.7	0	0.0	987	80.2
	(7/28-31)		F	0	0.0	233	18.9	11	0.9	0	0.0	244	19.8
			Subtotal	0	0.0	1,187	96.4	44	3.6	0	0.0	1,231	100.0
	8/1-4	117	M	0	0.0	546	69.2	27	3.4	0	0.0	573	72.6
	(8/1-4)		F	0	0.0	209	26.5	7	0.9	0	0.0	216	27.4
			Subtotal	0	0.0	755	95.7	34	4.3	0	0.0	789	100.0
	8/6-11,14-15	57	M	0	0.0	102	75.4	2	1.8	0	0.0	104	77.2
	(8/5-18)		F	0	0.0	28	21.1	2	1.8	0	0.0	31	22.8
			Subtotal	0	0.0	130	96.5	5	3.6	0	0.0	135	100.0
	Season	1,252	M	0	0.0	21,917	52.8	4,241	10.2	258	0.6	26,412	63.7
			F	0	0.0	11,837	28.5	2,965	7.1	277	0.7	15,072	36.3
			Total	0	0.0	33,754	81.4	7,205	17.4	534	1.3	41,484	100.0

Appendix C.5. Age and sex of chum salmon at the Kogrukluk River weir based on escapement samples collected with a fish trap. [ab] (page 4 of 13)

Year	Sample Dates (Stratum Dates)	Sample Size	Sex	Age Class 0.2 Esc.	0.2 %	0.3 Esc.	0.3 %	0.4 Esc.	0.4 %	0.5 Esc.	0.5 %	Total Esc.	Total %
1985	7/7-10	116	M	0	0.0	528	14.7	1,515	42.2	0	0.0	2,043	56.9
	(6/23-7/10)		F	0	0.0	187	5.2	1,361	37.9	0	0.0	1,547	43.1
			Subtotal	0	0.0	714	19.9	2,876	80.1	0	0.0	3,590	100.0
	7/11-14	116	M	0	0.0	330	15.5	953	44.8	0	0.0	1,283	60.3
	(7/11-14)		F	0	0.0	183	8.6	659	31.0	0	0.0	844	39.7
			Subtotal	0	0.0	513	24.1	1,612	75.8	0	0.0	2,127	100.0
	7/15-18	112	M	0	0.0	370	13.4	1,210	43.8	0	0.0	1,578	57.1
	(7/15-18)		F	0	0.0	296	10.7	887	32.1	0	0.0	1,185	42.9
			Subtotal	0	0.0	666	24.1	2,097	75.9	0	0.0	2,763	100.0
	7/19-22	112	M	19	0.9	408	19.6	744	35.7	56	2.7	1,227	58.9
	(7/19-22)		F	0	0.0	317	15.2	540	25.9	0	0.0	857	41.1
			Subtotal	19	0.9	725	34.8	1,284	61.6	56	2.7	2,084	100.0
	7/23-27	142	M	19	0.7	656	24.6	1,202	45.1	19	0.7	1,895	71.1
	(7/23-27)		F	0	0.0	264	9.9	506	19.0	0	0.0	770	28.9
			Subtotal	19	0.7	919	34.5	1,708	64.1	19	0.7	2,665	100.0
	7/29-8/1	106	M	0	0.0	123	14.2	286	33.0	0	0.0	409	47.2
	(7/29-8/1)		F	0	0.0	212	24.5	245	28.3	0	0.0	458	52.8
			Subtotal	0	0.0	336	38.7	531	61.3	0	0.0	867	100.0
	8/2-3,5-6	80	M	0	0.0	71	16.3	98	22.5	0	0.0	170	38.8
	(8/2-6)		F	0	0.0	82	18.8	185	42.4	0	0.0	267	61.2
			Subtotal	0	0.0	153	35.1	284	64.9	0	0.0	437	100.0
	8/7-9	46	M	0	0.0	11	6.5	57	32.6	0	0.0	68	39.1
	(8/7-9)		F	0	0.0	42	23.9	64	37.0	0	0.0	106	60.9
			Subtotal	0	0.0	53	30.4	121	69.6	0	0.0	174	100.0
	8/10,12-15	44	M	0	0.0	7	2.3	75	25.0	0	0.0	81	27.3
	(8/10-28)		F	0	0.0	102	34.1	115	38.6	0	0.0	217	72.7
			Subtotal	0	0.0	108	36.4	190	63.6	0	0.0	298	100.0
	Season	874	M	37	0.2	2,504	16.7	6,140	40.9	75	0.5	8,753	58.3
			F	0	0.0	1,684	11.2	4,563	30.4	0	0.0	6,252	41.7
			Total	37	0.2	4,188	27.9	10,703	71.3	75	0.5	15,005	100.0
1986	6/29-7/3	109	M	0	0.0	270	35.8	187	24.8	14	1.8	470	62.4
	(6/23-7/3)		F	0	0.0	180	23.9	90	11.9	14	1.8	283	37.6
			Subtotal	0	0.0	450	59.7	276	36.7	27	3.6	753	100.0
	7/4-7	113	M	0	0.0	822	55.3	339	22.8	13	0.9	1,176	79.1
	(7/4-7)		F	0	0.0	222	14.9	79	5.3	13	0.9	311	20.9
			Subtotal	0	0.0	1,044	70.2	418	28.1	27	1.8	1,487	100.0
	7/8-11	117	M	0	0.0	1,866	41.9	1,065	23.9	76	1.7	3,006	67.5
	(7/8-11)		F	0	0.0	913	20.5	534	12.0	0	0.0	1,448	32.5
			Subtotal	0	0.0	2,779	62.4	1,599	35.9	76	1.7	4,454	100.0
	7/12-15	112	M	35	0.9	1,617	42.0	308	8.0	104	2.7	2,064	53.6
	(7/12-15)		F	35	0.9	1,375	35.7	343	8.9	35	0.9	1,787	46.4
			Subtotal	69	1.8	2,992	77.7	651	16.9	139	3.6	3,851	100.0

Appendix C.5. Age and sex of chum salmon at the Kogrukluk River weir based on escapement samples collected with a fish trap. [ab] (page 5 of 13)

Year	Sample Dates (Stratum Dates)	Sample Size	Sex	Age Class 0.2 Esc.	0.2 %	0.3 Esc.	0.3 %	0.4 Esc.	0.4 %	0.5 Esc.	0.5 %	Total Esc.	Total %
	7/16-19	115	M	0	0.0	1,767	42.6	398	9.6	37	0.9	2,198	53.0
	(7/16-8/29)		F	0	0.0	1,481	35.7	431	10.4	37	0.9	1,950	47.0
			Subtotal	0	0.0	3,248	78.3	830	20.0	75	1.8	4,148	100.0
	Season	566	M	35	0.2	6,343	43.2	2,297	15.6	244	1.7	8,915	60.7
			F	35	0.2	4,170	28.4	1,477	10.1	99	0.7	5,778	39.3
			Total	69	0.5	10,513	71.5	3,774	25.7	343	2.3	14,693	100.0
1987 [d]	7/15-16	57	M		0.0		3.5		54.4		7.0		64.9
			F		0.0		1.8		31.6		1.8		35.1
			Subtotal		0.0		5.3		86.0		8.8		100.0
	8/10-11	51	M		0.0		25.5		31.4		5.9		62.7
			F		0.0		11.8		25.5		0.0		37.3
			Subtotal		0.0		37.3		56.9		5.9		100.0
	8/12-14	52	M		0.0		9.6		21.2		5.8		36.5
			F		0.0		17.3		42.3		3.8		63.5
			Subtotal		0.0		26.9		63.5		9.6		100.0
	Season	160	M		0.0		12.5		36.3		6.3		55.0
			F		0.0		10.0		33.1		1.9		45.0
			Total		0.0		22.5		69.4		8.1		100.0
1988	No data is available for the 1988 season.												
1989 [d]	7/7-14	147	M		0.0		10.2		57.8		2.0		70.1
			F		0.0		9.5		19.0		1.4		29.9
			Total		0.0		19.7		76.8		3.4	39,548	100.0
1990	6/30-7/7	148	M	54	0.7	2,758	34.4	2,758	34.5	270	3.4	5,841	73
	(6/18-7/7)		F	0	0.0	1,136	14.2	1,028	12.8	0	0.0	2,164	27
			Subtotal	54	0.7	3,894	48.6	3,786	47.3	270	3.4	8,005	100.0
	7/8-14	131	M	0	0.0	4,243	48.1	2,560	29.0	0	0.0	6,803	77.1
	(7/8-14)		F	0	0.0	1,078	12.2	943	10.7	0	0.0	2,021	22.9
			Subtotal	0	0.0	5,321	60.3	3,503	39.7	0	0.0	8,824	100.0
	7/15-22	92	M	216	2.2	7,452	75.0	756	7.6	108	1.1	8,532	85.9
	(7/15-8/29)		F	108	1.1	864	8.7	432	4.4	0	0.0	1,404	14.1
			Subtotal	324	3.3	8,316	83.7	1,188	12.0	108	1.1	9,936	100.0
	Season	371	M	270	1.0	14,454	54.0	6,074	22.7	378	1.4	21,177	79.1
			F	108	0.4	3,078	11.5	2,403	9.0	0	0.0	5,588	20.9
			Total	378	1.4	17,532	65.5	8,477	31.7	378	1.4	26,765	100.0
1991	7/6-10	78	M	47	1.3	1,026	28.2	2,099	57.7	0	0.0	3,172	87.2
	(6/23-7/10)		F	0	0.0	233	6.4	233	6.4	0	0.0	466	12.8
			Subtotal	47	1.3	1,259	34.6	2,332	64.1	0	0.0	3,638	100.0
	7/11-14	69	M	58	1.4	1,854	44.9	1,735	42.0	0	0.0	3,651	88.4
	(7/11-14)		F	0	0.0	359	8.7	120	2.9	0	0.0	479	11.6
			Subtotal	58	1.4	2,214	53.6	1,854	44.9	0	0.0	4,130	100.0

Appendix C.5. Age and sex of chum salmon at the Kogrukluk River weir based on escapement samples collected with a fish trap. [ab] (page 6 of 13)

Year	Sample Dates (Stratum Dates)	Sample Size	Sex	Age Class 0.2 Esc.	0.2 %	0.3 Esc.	0.3 %	0.4 Esc.	0.4 %	0.5 Esc.	0.5 %	Total Esc.	Total %
	7/14-18	63	M	0	0.0	2,086	52.4	1,262	31.7	0	0.0	3,347	84.1
	(7/14-18)		F	0	0.0	505	12.7	127	3.2	0	0.0	633	15.9
			Subtotal	0	0.0	2,591	65.1	1,389	34.9	0	0.0	3,980	100.0
	7/19-23	83	M	0	0.0	6,295	50.6	3,894	31.3	0	0.0	10,188	81.9
	(7/19-8/29)		F	0	0.0	1,655	13.3	597	4.8	0	0.0	2,252	18.1
			Subtotal	0	0.0	7,949	63.9	4,491	36.1	0	0.0	12,440	100.0
	Season	293	M	105	0.4	11,260	46.6	8,989	37.2	0	0.0	20,359	84.2
			F	0	0.0	2,752	11.4	1,077	4.5	0	0.0	3,829	15.8
			Total	105	0.4	14,013	57.9	10,066	41.6	0	0.0	24,188	100.0
1992	7/2-4	176	M	0	0.0	2,511	16.5	7,961	52.3	91	0.6	10,548	69.3
	(6/17-7/9)		F	0	0.0	1,644	10.8	2,938	19.3	91	0.6	4,673	30.7
			Subtotal	0	0.0	4,155	27.3	10,898	71.6	183	1.2	15,221	100.0
	7/15-17	186	M	604	3.2	6,798	36.0	4,778	25.3	94	0.5	12,293	65.1
	(7/10-8/21)		F	302	1.6	3,663	19.4	2,644	14.0	0	0.0	6,591	34.9
			Subtotal	906	4.8	10,462	55.4	7,421	39.3	94	0.5	18,884	100.0
	Season	362	M	604	1.8	9,310	27.3	12,738	37.4	186	0.5	22,842	67.0
			F	302	0.9	5,307	15.6	5,581	16.4	91	0.3	11,263	33.0
			Total	906	2.7	14,617	42.9	18,320	53.7	277	0.8	34,105	100.0
1993	7/8-10	180	M	0	0.0	3,047	17.8	9,125	53.3	856	5.0	13,045	76.2
	(6/17-7/14)		F	0	0.0	1,044	6.1	2,568	15.0	479	2.8	4,075	23.8
			Subtotal	0	0.0	4,092	23.9	11,693	68.3	1,335	7.8	17,120	100.0
	7/20-24	181	M	0	0.0	5,956	40.3	6,784	45.9	251	1.7	12,976	87.8
	(7/15-8/20)		F	0	0.0	813	5.5	975	6.6	0	0.0	1,803	12.2
			Subtotal	0	0.0	6,769	45.8	7,759	52.5	251	1.7	14,779	100.0
	Season	361	M	0	0.0	9,003	28.2	15,909	49.9	1,107	3.5	26,021	81.6
			F	0	0.0	1,857	5.8	3,543	11.1	479	1.5	5,878	18.4
			Total	0	0.0	10,860	34.0	19,452	61.0	1,587	5.0	31,899	100.0
1994 [f]	7/8-9	125	M		0.0		26.4		45.6		4.8		76.8
			F		0.0		10.4		12.8		0.0		23.2
			Total		0.0		36.8		58.4		4.8	52,208	100.0
1995	7/4-5	140	M	0	0.0	1,607	27.9	2,921	50.7	121	2.1	4,649	80.7
	(7/2-6)		F	0	0.0	495	8.6	616	10.7	0	0.0	1,112	19.3
			Subtotal	0	0.0	2,103	36.5	3,537	61.4	121	2.1	5,761	100.0
	7/9-10	126	M	70	0.8	2,570	29.4	5,341	61.1	0	0.0	7,981	91.3
	(7/7-13)		F	0	0.0	140	1.6	621	7.1	0	0.0	761	8.7
			Subtotal	70	0.8	2,710	31.0	5,962	68.2	0	0.0	8,742	100.0
	7/16-17	137	M	128	2.2	2,636	45.3	2,164	37.2	0	0.0	4,928	84.7
	(7/14-18)		F	0	0.0	553	9.5	337	5.8	0	0.0	890	15.3
			Subtotal	128	2.2	3,188	54.8	2,502	43.0	0	0.0	5,818	100.0
	7/20-21	131	M	0	0.0	2,866	52.7	1,828	33.6	125	2.3	4,819	88.6
	(7/19-24)		F	0	0.0	413	7.6	207	3.8	0	0.0	620	11.4
			Subtotal	0	0.0	3,280	60.3	2,034	37.4	125	2.3	5,439	100.0

Appendix C.5. Age and sex of chum salmon at the Kogrukluk River weir based on escapement samples collected with a fish trap. [ab] (page 7 of 13)

Year	Sample Dates (Stratum Dates)	Sample Size	Sex	Age Class 0.2 Esc.	0.2 %	0.3 Esc.	0.3 %	0.4 Esc.	0.4 %	0.5 Esc.	0.5 %	Total Esc.	Total %
	7/27-28	128	M	88	3.9	1,272	56.3	635	28.1	0	0.0	1,996	88.3
	(7/25-31)		F	18	0.8	142	6.3	106	4.7	0	0.0	266	11.8
			Subtotal	106	4.7	1,414	62.5	742	32.8	0	0.0	2,261	100.0
	8/2-3	110	M	41	5.5	361	48.2	211	28.2	0	0.0	613	81.9
	(8/1-5)		F	13	1.8	109	14.5	13	1.8	0	0.0	136	18.1
			Subtotal	55	7.3	470	62.7	225	30.0	0	0.0	749	100.0
	8/6,8,10	76	M	26	7.9	139	42.1	70	21.1	0	0.0	235	71.1
	(8/6-9/3)		F	26	7.9	52	15.8	17	5.3	0	0.0	95	28.9
			Subtotal	52	15.8	191	57.9	87	26.3	0	0.0	330	100.0
	Season	848	M	353	1.2	11,451	39.4	13,170	45.3	246	0.8	25,221	86.7
			F	58	0.2	1,904	6.5	1,918	6.6	0	0.0	3,880	13.3
			Total	411	1.4	13,355	45.9	15,088	51.8	246	0.8	29,101	100.0
1996	7/2	136	M	103	0.7	6,208	44.1	5,691	40.4	414	2.9	12,416	88.2
	(6/19-7/5)		F	310	2.2	1,035	7.4	310	2.2	0	0.0	1,656	11.8
			Subtotal	414	2.9	7,243	51.5	6,001	42.6	414	2.9	14,072	100.0
	7/8-9	122	M	238	1.6	8,326	57.4	3,449	23.8	357	2.5	12,370	85.2
	(7/6-7/11)		F	0	0.0	1,546	10.7	595	4.1	0	0.0	2,141	14.8
			Subtotal	238	1.6	9,872	68.0	4,044	27.9	357	2.5	14,511	100.0
	7/13-14	151	M	0	0.0	6,842	60.9	2,008	17.9	0	0.0	8,850	78.8
	(7/12-17)		F	74	0.7	1,636	14.6	669	6.0	0	0.0	2,380	21.2
			Subtotal	74	0.7	8,478	75.5	2,677	23.8	0	0.0	11,230	100.0
	7/21-22	149	M	74	1.3	3,823	69.1	779	14.1	0	0.0	4,676	84.6
	(7/18-24)		F	0	0.0	668	12.1	186	3.4	0	0.0	854	15.4
			Subtotal	74	1.3	4,491	81.2	965	17.4	0	0.0	5,530	100.0
	7/26,28-29	149	M	28	1.3	1,651	77.9	142	6.7	0	0.0	1,822	85.9
	(7/25-31)		F	14	0.7	256	12.1	28	1.3	0	0.0	299	14.1
			Subtotal	43	2.0	1,907	89.9	171	8.1	0	0.0	2,121	100.0
	8/3-7	120	M	17	1.7	773	75.0	77	7.5	9	0.8	876	85.0
	(8/1-9/13)		F	0	0.0	129	12.5	17	1.7	9	0.8	155	15.0
			Subtotal	17	1.7	901	87.5	94	9.2	17	1.7	1,030	100.0
	Season	827	M	461	1.0	27,623	57.0	12,147	25.0	779	1.6	41,011	84.6
			F	399	0.8	5,270	10.9	1,806	3.7	9	0.0	7,483	15.4
			Total	860	1.8	32,893	67.8	13,953	28.8	788	1.6	48,494	100.0
1997	7/3-6	167	M	0	0.0	478	19.2	1,836	73.6	15	0.6	2,329	93.4
	(6/22-7/7)		F	0	0.0	15	0.6	149	6.0	0	0.0	164	6.6
			Subtotal	0	0.0	493	19.8	1,985	79.6	15	0.6	2,493	100.0
	7/10-13	182	M	12	0.5	778	34.6	1,333	59.3	25	1.1	2,148	95.6
	(7/8-15)		F	0	0.0	49	2.2	50	2.2	0	0.0	99	4.4
			Subtotal	12	0.5	827	36.8	1,383	61.5	25	1.1	2,247	100.0
	7/18-22	189	M	10	0.5	1,083	56.6	759	39.7	0	0.0	1,851	96.8
	(7/16-23)		F	0	0.0	20	1.1	40	2.1	0	0.0	61	3.2
			Subtotal	10	0.5	1,103	57.7	799	41.8	0	0.0	1,912	100.0

Appendix C.5. Age and sex of chum salmon at the Kogrukluk River weir based on escapement samples collected with a fish trap. [ab] (page 8 of 13)

Year	Sample Dates (Stratum Dates)	Sample Size	Sex	Age Class 0.2 Esc.	0.2 %	0.3 Esc.	0.3 %	0.4 Esc.	0.4 %	0.5 Esc.	0.5 %	Total Esc.	Total %
	7/26,29	68	M	11	1.5	503	64.7	251	32.4	11	1.5	777	100.0
	(7/24-31)		F	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
			Subtotal	11	1.5	503	64.7	251	32.4	11	1.5	777	100.0
	8/3-5	35	M	0	0.0	479	94.3	29	5.7	0	0.0	508	100.0
	(8/1-9/10)		F	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
			Subtotal	0	0.0	479	94.3	29	5.7	0	0.0	508	100.0
	Season	641	M	34	0.4	3,320	41.8	4,209	53.0	51	0.6	7,613	95.9
			F	0	0.0	84	1.1	239	3.0	0	0.0	324	4.1
			Total	34	0.4	3,404	42.9	4,448	56.0	51	0.6	7,937	100.0
1998 [d]	7/23-26	193	M		0.0		79.8		8.8		0.0		88.6
			F		0.0		10.4		1.0		0.0		11.4
			Subtotal		0.0		90.2		9.8		0.0		100.0
1999	7/8-11	196	M	0	0.0	1,589	34.7	2,570	56.1	23	0.5	4,183	91.3
	(7/1-13)		F	0	0.0	164	3.6	234	5.1	0	0.0	397	8.7
			Subtotal	0	0.0	1,753	38.3	2,804	61.2	23	0.5	4,580	100.0
	7/16-20	184	M	0	0.0	1,873	42.4	2,281	51.6	0	0.0	4,154	94.0
	(7/14-21)		F	0	0.0	96	2.2	144	3.3	24	0.5	264	6.0
			Subtotal	0	0.0	1,969	44.6	2,425	54.9	24	0.5	4,418	100.0
	7/23-24	110	M	0	0.0	894	51.8	659	38.2	0	0.0	1,553	90.0
	(7/22-25)		F	0	0.0	110	6.4	63	3.6	0	0.0	173	10.0
			Subtotal	0	0.0	1,004	58.2	722	41.8	0	0.0	1,726	100.0
	7/26-29	175	M	0	0.0	835	53.7	533	34.3	0	0.0	1,368	88.0
	(7/26-30)		F	0	0.0	133	8.6	53	3.4	0	0.0	186	12.0
			Subtotal	0	0.0	968	62.3	586	37.7	0	0.0	1,554	100.0
	7/31; 8/2	72	M	0	0.0	1,028	66.7	364	23.6	0	0.0	1,392	90.3
	(7/31-10/5)		F	0	0.0	86	5.5	64	4.2	0	0.0	150	9.7
			Subtotal	0	0.0	1,114	72.2	428	27.8	0	0.0	1,542	100.0
	Season	737	M	0	0.0	6,219	45.0	6,407	46.4	23	0.1	12,650	91.5
			F	0	0.0	588	4.3	558	4.0	24	0.2	1,170	8.5
			Total	0	0.0	6,807	49.3	6,965	50.4	47	0.3	13,820	100.0
2000	7/7-11	181	M	0	0.0	1,787	43.7	1,787	43.7	23	0.6	3,597	87.8
	(7/2-12)		F	0	0.0	136	3.3	362	8.8	0	0.0	498	12.2
			Subtotal	0	0.0	1,923	47.0	2,149	52.5	23	0.6	4,095	100.0
	7/15-21	181	M	52	1.1	2,986	63.0	733	15.5	0	0.0	3,772	79.6
	(7/13-22)		F	0	0.0	602	12.7	367	7.7	0	0.0	969	20.4
			Subtotal	52	1.1	3,588	75.7	1,100	23.2	0	0.0	4,741	100.0
	7/25-31	181	M	37	1.7	1,772	79.0	248	11.0	12	0.6	2,070	92.3
	(7/23-8/4)		F	0	0.0	136	6.1	37	1.7	0	0.0	173	7.7
			Subtotal	37	1.7	1,908	85.1	285	12.7	12	0.6	2,243	100.0
	8/8,11	40	M	21	5.0	258	62.5	21	5.0	0	0.0	299	72.5
	(8/5-29)		F	31	7.5	72	17.5	10	2.5	0	0.0	113	27.5
			Subtotal	52	12.5	330	80.0	31	7.5	0	0.0	412	100.0

Appendix C.5. Age and sex of chum salmon at the Kogrukluk River weir based on escapement samples collected with a fish trap. [ab] (page 9 of 13)

Year	Sample Dates (Stratum Dates)	Sample Size	Sex	Age Class 0.2 Esc.	0.2 %	0.3 Esc.	0.3 %	0.4 Esc.	0.4 %	0.5 Esc.	0.5 %	Total Esc.	Total %
	Season	583	M	110	0.9	6,803	59.2	2,789	24.3	35	0.3	9,737	84.7
			F	31	0.3	947	8.2	776	6.7	0	0.0	1,754	15.3
			Total	141	1.2	7,750	67.4	3,565	31.0	35	0.3	11,491	100.0
2001	7/7-8	65	M	0	0.0	1,769	36.9	2,212	46.2	0	0.0	3,981	83.1
	(6/28-7/10)		F	0	0.0	148	3.1	663	13.8	0	0.0	811	16.9
			Subtotal	0	0.0	1,917	40.0	2,875	60.0	0	0.0	4,792	100.0
	7/12-14	161	M	0	0.0	6,132	39.7	6,036	39.1	0	0.0	12,168	78.9
	(7/11-12)		F	96	0.6	1,629	10.6	1,533	10.0	0	0.0	3,258	21.1
			Subtotal	96	0.6	7,761	50.3	7,569	49.1	0	0.0	15,426	100.0
	7/29-30	171	M	0	0.0	5,298	67.2	1,520	19.3	0	0.0	6,818	86.5
	(7/22-8/1)		F	46	0.6	737	9.4	277	3.5	0	0.0	1,060	13.5
			Subtotal	46	0.6	6,035	76.6	1,797	22.8	0	0.0	7,878	100.0
	8/3-4	180	M	0	0.0	1,166	79.4	187	12.8	0	0.0	1,354	92.2
	(8/2-5)		F	0	0.0	82	5.6	33	2.2	0	0.0	114	7.8
			Subtotal	0	0.0	1,248	85.0	220	15.0	0	0.0	1,468	100.0
	8/6-8	161	M	6	0.6	838	83.8	81	8.1	0	0.0	925	92.5
	(8/6-29)		F	0	0.0	75	7.5	0	0.0	0	0.0	75	7.5
			Subtotal	6	0.6	913	91.3	81	8.1	0	0.0	1,000	100.0
	Season	738	M	6	0.0	15,204	49.8	10,037	32.8	0	0.0	25,247	82.6
			F	142	0.5	2,670	8.7	2,505	8.2	0	0.0	5,317	17.4
			Total	148	0.5	17,874	58.5	12,542	41.0	0	0.0	30,564	100.0
2002	6/28-29	186	M	0	0.0	1,747	39.2	1,986	44.6	215	4.9	3,948	88.7
	(6/26-7/1)		F	0	0.0	167	3.8	311	7.0	24	0.5	502	11.3
			Subtotal	0	0.0	1,914	43.0	2,297	51.6	239	5.4	4,450	100.0
	7/3-4	109	M	0	0.0	4,291	53.2	2,664	33.0	74	0.9	7,029	87.2
	(7/2-6)		F	0	0.0	592	7.4	370	4.6	74	0.9	1,036	12.8
			Subtotal	0	0.0	4,883	60.6	3,034	37.6	148	1.8	8,065	100.0
	7/8-9	172	M	0	0.0	10,370	62.8	2,977	18.0	96	0.6	13,443	81.4
	(7/7-12)		F	0	0.0	2,305	13.9	768	4.7	0	0.0	3,073	18.6
			Subtotal	0	0.0	12,675	76.7	3,745	22.7	96	0.6	16,516	100.0
	7/15-16	174	M	0	0.0	8,821	75.3	1,212	10.4	67	0.6	10,100	86.2
	(7/13-19)		F	0	0.0	1,414	12.1	202	1.7	0	0.0	1,616	13.8
			Subtotal	0	0.0	10,235	87.4	1,414	12.1	67	0.6	11,716	100.0
	7/22-23	176	M	52	0.6	6,768	73.9	1,042	11.3	0	0.0	7,861	85.8
	(7/20-26)		F	0	0.0	1,093	11.9	208	2.3	0	0.0	1,302	14.2
			Subtotal	52	0.6	7,861	85.8	1,250	13.6	0	0.0	9,163	100.0
	7/29-31,8/6	182	M	9	0.5	1,240	74.7	146	8.8	0	0.0	1,395	84.1
	(7/27-9/24)		F	18	1.1	219	13.2	27	1.6	0	0.0	265	15.9
			Subtotal	27	1.6	1,459	87.9	173	10.4	0	0.0	1,660	100.0
	Season	999	M	61	0.1	33,238	64.5	10,025	19.4	453	0.9	43,777	84.9
			F	18	0.1	5,790	11.2	1,887	3.7	98	0.2	7,793	15.1
			Total	79	0.2	39,028	75.7	11,912	23.1	551	1.1	51,570	100.0

Appendix C.5. Age and sex of chum salmon at the Kogrukluk River weir based on escapement samples collected with a fish trap. [ab] (page 10 of 13)

Year	Sample Dates (Stratum Dates)	Sample Size	Sex	Age Class 0.2 Esc.	0.2 %	0.3 Esc.	0.3 %	0.4 Esc.	0.4 %	0.5 Esc.	0.5 %	Total Esc.	Total %
2003	6/30-7/4	181	M	11	0.6	704	34.8	1,006	49.7	56	2.8	1,777	87.8
	(6/21-7/5)		F	0	0.0	123	6.1	123	6.1	0	0.0	246	12.2
			Subtotal	11	0.6	827	40.9	1,129	55.8	56	2.8	2,023	100.0
	7/7-8	168	M	77	1.8	2,024	47.0	1,691	39.3	0	0.0	3,793	88.1
	(7/6-13)		F	0	0.0	308	7.2	205	4.7	0	0.0	512	11.9
			Subtotal	77	1.8	2,332	54.2	1,896	44.0	0	0.0	4,305	100.0
	7/15-16	168	M	40	0.6	3,554	53.0	2,555	38.1	80	1.2	6,229	92.9
	(7/14-19)		F	80	1.2	399	5.9	0	0.0	0	0.0	479	7.1
			Subtotal	120	1.8	3,953	58.9	2,555	38.1	80	1.2	6,708	100.0
	7/21-25	180	M	159	2.2	5,248	73.3	1,272	17.8	0	0.0	6,679	93.3
	(7/20-28)		F	0	0.0	397	5.6	80	1.1	0	0.0	477	6.7
			Subtotal	159	2.2	5,645	78.9	1,352	18.9	0	0.0	7,156	100.0
	7/31-8/1	190	M	0	0.0	1,529	70.5	377	17.3	0	0.0	1,906	87.9
	(7/29-8/4)		F	11	0.5	217	10.0	34	1.6	0	0.0	262	12.1
			Subtotal	11	0.5	1,746	80.5	411	18.9	0	0.0	2,168	100.0
	8/2,5-7	127	M	33	3.1	845	80.3	75	7.1	0	0.0	953	90.6
	(8/5-9/20)		F	8	0.8	83	7.9	8	0.8	0	0.0	99	9.4
			Subtotal	41	3.9	928	88.2	83	7.9	0	0.0	1,052	100.0
	Season	1,014	M	320	1.4	13,904	59.4	6,976	29.8	136	0.6	21,336	91.1
			F	100	0.4	1,527	6.5	450	1.9	0	0.0	2,076	8.9
			Total	420	1.8	15,431	65.9	7,426	31.7	136	0.6	23,412	100.0
2004	6/27,30-7/2	147	M	31	0.7	1,730	38.1	2,255	49.7	62	1.3	4,078	89.8
	(6/21-7/5)		F	0	0.0	185	4.1	247	5.4	31	0.7	463	10.2
			Subtotal	31	0.7	1,915	42.2	2,502	55.1	93	2.0	4,541	100.0
	7/6-8	172	M	62	1.1	2,756	51.8	1,827	34.3	0	0.0	4,645	87.2
	(7/6-10)		F	31	0.6	433	8.1	217	4.1	0	0.0	681	12.8
			Subtotal	93	1.7	3,189	59.9	2,044	38.4	0	0.0	5,326	100.0
	7/12-16	177	M	191	5.1	2,223	59.3	931	24.9	0	0.0	3,345	89.3
	(7/11-17)		F	21	0.5	275	7.4	106	2.8	0	0.0	402	10.7
			Subtotal	212	5.6	2,498	66.7	1,037	27.7	0	0.0	3,747	100.0
	7/19-20	172	M	353	7.6	2,826	60.5	1,005	21.5	27	0.6	4,212	90.1
	(7/18-24)		F	109	2.3	272	5.8	82	1.8	0	0.0	462	9.9
			Subtotal	462	9.9	3,098	66.3	1,087	23.3	27	0.6	4,674	100.0
	7/27-28	178	M	793	20.2	2,467	62.9	595	15.2	0	0.0	3,854	98.3
	(7/25-31)		F	0	0.0	66	1.7	0	0.0	0	0.0	66	1.7
			Subtotal	793	20.2	2,533	64.6	595	15.2	0	0.0	3,920	100.0
	8/2-6,12-14	187	M	639	32.1	1,002	50.3	202	10.2	0	0.0	1,844	92.5
	(8/1-9/25)		F	0	0.0	138	6.9	11	0.5	0	0.0	149	7.5
			Subtotal	639	32.1	1,140	57.2	213	10.7	0	0.0	1,993	100.0
	Season	1,033	M	2,069	8.5	13,003	53.7	6,816	28.2	89	0.4	21,977	90.8
			F	161	0.7	1,371	5.7	662	2.7	31	0.1	2,224	9.2
			Total	2,230	9.2	14,374	59.4	7,478	30.9	120	0.5	24,201	100.0

Appendix C.5. Age and sex of chum salmon at the Kogrukluk River weir based on escapement samples collected with a fish trap. [ab] (page 11 of 13)

Year	Sample Dates (Stratum Dates)	Sample Size	Sex	Age Class 0.2 Esc.	0.2 %	0.3 Esc.	0.3 %	0.4 Esc.	0.4 %	0.5 Esc.	0.5 %	Total Esc.	Total %
2005	6/28-7/1	141	M	0	0.0	1,011	58.2	222	12.7	0	0.0	1,233	70.9
	(6/22-7/3)		F	0	0.0	395	22.7	111	6.4	0	0.0	506	29.1
			Subtotal	0	0.0	1,406	80.9	333	19.1	0	0.0	1,739	100.0
	7/4-7	194	M	0	0.0	13,147	48.9	2,353	8.8	0	0.0	15,499	57.7
	(7/4-9)		F	0	0.0	10,517	39.2	830	3.1	0	0.0	11,348	42.3
			Subtotal	0	0.0	23,664	88.1	3,183	11.9	0	0.0	26,847	100.0
	7/11-13	173	M	0	0.0	14,406	41.6	801	2.3	0	0.0	15,207	43.9
	(7/10-15)		F	2,001	5.8	16,607	48.0	800	2.3	0	0.0	19,408	56.1
			Subtotal	2,001	5.8	31,013	89.6	1,601	4.6	0	0.0	34,615	100.0
	7/18-20	179	M	292	0.6	28,349	54.2	1,754	3.3	0	0.0	30,394	58.1
	(7/16-21)		F	1,462	2.8	18,996	36.3	1,461	2.8	0	0.0	21,919	41.9
			Subtotal	1,754	3.4	47,345	90.5	3,215	6.1	0	0.0	52,313	100.0
	7/25, 27-28	168	M	330	0.6	29,699	53.6	1,980	3.6	0	0.0	32,009	57.7
	(7/22-29)		F	1,650	3.0	21,450	38.7	330	0.6	0	0.0	23,430	42.3
			Subtotal	1,980	3.6	51,149	92.3	2,310	4.2	0	0.0	55,439	100.0
	8/1-3	169	M	331	1.8	9,484	50.9	221	1.2	0	0.0	10,035	53.8
	(7/30-8/6)		F	1,213	6.5	7,389	39.6	0	0.0	0	0.0	8,602	46.2
			Subtotal	1,544	8.3	16,873	90.5	221	1.2	0	0.0	18,637	100.0
	8/9-11	174	M	140	1.7	3,973	48.9	93	1.1	0	0.0	4,207	51.7
	(8/7-9/23)		F	421	5.2	3,459	42.5	47	0.6	0	0.0	3,926	48.3
			Subtotal	561	6.9	7,432	91.4	140	1.7	0	0.0	8,133	100.0
	Season	1,198	M	1,093	0.6	100,069	50.6	7,422	3.8	0	0.0	108,585	54.9
			F	6,746	3.4	78,813	39.9	3,580	1.8	0	0.0	89,138	45.1
			Total	7,839	4.0	178,882	90.5	11,002	5.6	0	0.0	197,723	100.0
2006	6/29-7/1	181	M	0	0.0	1,112	15.5	3,455	48.1	0	0.0	4,568	63.5
	(6/28-7/2)		F	0	0.0	1,033	14.3	1,549	21.5	40	0.6	2,621	36.5
			Subtotal	0	0.0	2,145	29.8	5,004	69.6	40	0.6	7,189	100.0
	7/3-5	186	M	0	0.0	6,076	21.0	11,374	39.2	156	0.5	17,606	60.8
	(7/3-7)		F	156	0.5	6,700	23.1	4,518	15.6	0	0.0	11,374	39.2
			Subtotal	156	0.5	12,776	44.1	15,892	54.8	156	0.5	28,980	100.0
	7/10-12	169	M	255	0.6	14,526	33.7	9,939	23.1	0	0.0	24,720	57.4
	(7/8-14)		F	0	0.0	12,488	29.0	5,861	13.6	0	0.0	18,349	42.6
			Subtotal	255	0.6	27,014	62.7	15,800	36.7	0	0.0	43,069	100.0
	7/17-19	179	M	0	0.0	18,148	36.9	13,199	26.8	275	0.6	31,622	64.2
	(7/15-22)		F	275	0.6	13,199	26.8	4,125	8.4	0	0.0	17,599	35.8
			Subtotal	275	0.6	31,347	63.7	17,324	35.2	275	0.6	49,221	100.0
	7/25-27	190	M	0	0.0	13,782	56.3	5,024	20.5	0	0.0	18,806	76.8
	(7/23-28)		F	773	3.2	4,380	17.9	515	2.1	0	0.0	5,667	23.2
			Subtotal	773	3.2	18,162	74.2	5,539	22.6	0	0.0	24,473	100.0
	7/31-8/1	184	M	267	1.6	6,128	37.5	2,398	14.7	0	0.0	8,793	53.8
	(7/29-8/4)		F	355	2.2	6,040	37.0	1,155	7.0	0	0.0	7,549	46.2
			Subtotal	622	3.8	12,168	74.5	3,553	21.7	0	0.0	16,342	100.0

Appendix C.5. Age and sex of chum salmon at the Kogrukluk River weir based on escapement samples collected with a fish trap. [ab] (page 12 of 13)

Year	Sample Dates (Stratum Dates)	Sample Size	Sex	Age Class 0.2 Esc.	0.2 %	0.3 Esc.	0.3 %	0.4 Esc.	0.4 %	0.5 Esc.	0.5 %	Total Esc.	Total %
	8/8-11	186	M	183	1.6	4,200	37.1	1,157	10.2	0	0.0	5,540	48.9
	(8/5-9/14)		F	548	4.9	4,444	39.2	791	7.0	0	0.0	5,783	51.1
			Subtotal	731	6.5	8,644	76.3	1,948	17.2	0	0.0	11,323	100.0
	Season	1,275	M	704	0.4	63,974	35.4	46,545	25.8	431	0.3	111,654	61.8
			F	2,107	1.2	48,282	26.8	18,515	10.2	40	0.0	68,943	38.2
			Total	2,811	1.6	112,256	62.2	65,060	36.0	471	0.3	180,597	100.0
2007	7/2-6	187	M	0	0.0	680	26.7	912	35.8	191	7.5	1,783	70.1
	(6/26-7/7)		F	14	0.5	259	10.2	422	16.6	68	2.7	762	29.9
			Subtotal	14	0.5	939	36.9	1,334	52.4	259	10.2	2,545	100.0
	7/9-10,18-19	196	M	0	0.0	8,855	33.2	6,131	23.0	818	3.1	15,804	59.2
	(7/8-21)		F	681	2.6	6,676	25.0	3,406	12.7	136	0.5	10,899	40.8
			Subtotal	681	2.6	15,531	58.2	9,537	35.7	954	3.6	26,703	100.0
	7/23-28	173	M	0	0.0	4,995	43.3	2,198	19.1	266	2.3	7,459	64.7
	(7/22-29)		F	200	1.7	2,864	24.9	999	8.6	0	0.0	4,063	35.3
			Subtotal	200	1.7	7,859	68.2	3,197	27.7	266	2.3	11,522	100.0
	7/30-31	84	M	208	2.4	3,328	38.1	2,288	26.2	0	0.0	5,824	66.7
	(7/30-9/23)		F	312	3.6	1,664	19.0	936	10.7	0	0.0	2,912	33.3
			Subtotal	520	6.0	4,992	57.1	3,224	36.9	0	0.0	8,736	100.0
	Season	640	M	208	0.4	17,859	36.1	11,528	23.3	1,275	2.6	30,870	62.4
			F	1,207	2.5	11,462	23.1	5,763	11.6	204	0.4	18,635	37.6
			Total	1,415	2.9	29,321	59.2	17,291	34.9	1,479	3.0	49,505	100.0
2008	7/6-12	196	M	0	0.0	971	12.3	4,086	51.5	283	3.6	5,341	67.3
	(6/15-7/16)		F	0	0.0	890	11.2	1,497	18.9	203	2.5	2,589	32.7
			Subtotal	0	0.0	1,861	23.5	5,583	70.4	486	6.1	7,930	100.0
	7/19-24	163	M	375	1.8	7,130	35.0	4,754	23.3	375	1.9	12,634	62.0
	(7/17-27)		F	0	0.0	4,629	22.7	3,002	14.7	125	0.6	7,756	38.0
			Subtotal	375	1.8	11,759	57.7	7,756	38.0	500	2.5	20,390	100.0
	7/31-8/4	165	M	202	1.2	6,663	40.0	4,341	26.0	101	0.6	11,307	67.9
	(7/28-9/20)		F	101	0.6	3,938	23.6	1,212	7.3	101	0.6	5,351	32.1
			Subtotal	303	1.8	10,601	63.6	5,553	33.3	202	1.2	16,658	100.0
	Season	524	M	577	1.3	14,764	32.8	13,181	29.3	760	1.7	29,282	65.1
			F	101	0.2	9,456	21.0	5,711	12.7	428	0.9	15,696	34.9
			Total	678	1.5	24,220	53.8	18,892	42.0	1,188	2.6	44,978	100.0
2009	7/7-18	372	M	467	1.6	10,571	36.6	4,897	16.9	311	1.1	16,245	56.2
	(6/25-7/20)		F	466	1.6	9,482	32.8	2,565	8.9	155	0.5	12,669	43.8
			Subtotal	933	3.2	20,053	69.4	7,462	25.8	466	1.6	28,914	100.0
	7/22-25	203	M	134	0.5	11,648	42.9	3,749	13.8	0	0.0	15,531	57.1
	(7/21-28)		F	134	0.5	9,104	33.5	2,410	8.9	0	0.0	11,648	42.9
			Subtotal	268	1.0	20,752	76.4	6,159	22.7	0	0.0	27,179	100.0
	8/4,7-9	231	M	375	1.3	11,114	38.5	3,496	12.1	125	0.5	15,110	52.4
	(7/29-9/27)		F	624	2.2	11,614	40.3	1,374	4.8	125	0.4	13,737	47.6
			Subtotal	999	3.5	22,728	78.8	4,870	16.9	250	0.9	28,847	100.0
	Season	806	M	975	1.2	33,333	39.2	12,142	14.3	436	0.5	46,886	55.2
			F	1,225	1.4	30,201	35.6	6,349	7.5	280	0.3	38,054	44.8
			Total	2,200	2.6	63,534	74.8	18,491	21.8	716	0.8	84,940	100.0

Appendix C.5. Age and sex of chum salmon at the Kogrukluk River weir based on escapement samples collected with a fish trap. [ab] (page 13 of 13)

Year	Sample Dates (Stratum Dates)	Sample Size	Sex	Age Class 0.2 Esc.	0.2 %	0.3 Esc.	0.3 %	0.4 Esc.	0.4 %	0.5 Esc.	0.5 %	Total Esc.	Total %
	Grand Total [g]	16,933	M	8,234	0.7	473,053	41.7	282,341	24.9	7,442	0.7	771,054	67.9
			F	12,928	1.1	265,645	23.4	112,444	9.9	2,099	0.2	393,101	34.6
			Total	21,162	1.9	738,698	65.1	394,785	34.8	9,541	0.8	1,135,055	102.6

[a] The number of fish in each stratum age and sex category are derived from the sample percentages; discrepancies in sums are attributed to rounding errors.

[b] The number of fish in "Season" summaries are the strata sums; "Season" percentages are derived from the sums.

[c] Kogrukluk River escapement was monitored with a counting tower; samples were collected with a beach seine.

[d] The weir washed out in 1983, 1987, 1989, and 1998; these years are excluded from the "Grand Total".

[e] All 1990 Kogrukluk chum salmon scales need to be re-aged due to potential aging errors.

[f] Sampling dates do not meet criteria for estimating escapement percentages for some or all of the strata; "Season" is not included in the "Grand Total".

[g] The number of fish in the "Grand total" are the sum of the "Season" totals; percentages are derived from those sums.

Appendix C.6. Mean length (mm) of chum salmon at the Kogrukluk River weir based on escapement samples collected with a fish trap. [a] (page 1 of 34)

Year	Sample Dates (Stratum Dates)	Sex		Age Class 0.2	0.3	0.4	0.5
1971 [bc]	7/13,15, 16-19,21	M	Mean Length		661	663	668
			Std. Error		3	5	8
			Range		557- 778	568- 740	660- 675
			Sample Size	0	147	59	2
		F	Mean Length		614	614	
			Std. Error		4	5	
			Range		560- 678	580- 650	
			Sample Size	0	40	16	0
1972 [b]	7/29-8/5	M	Mean Length	553	596	614	675
			Std. Error	14	4	3	-
			Range	539- 567	555- 644	535- 674	675- 675
			Sample Size	2	31	61	1
		F	Mean Length	553	547	562	
			Std. Error	19	4	4	
			Range	534- 572	512- 590	529- 610	
			Sample Size	2	27	26	0
1973 [b]	8/2-3	M	Mean Length		582	593	630
			Std. Error		7	9	-
			Range		548- 637	548- 612	630- 630
			Sample Size	0	15	7	1
		F	Mean Length	495	542	565	
			Std. Error	-	4	7	
			Range	495- 495	514- 563	547- 583	
			Sample Size	1	18	5	0
1976	6/29-7/7 (6/23-7/7)	M	Mean Length	641	582	609	
			Std. Error	-	10	6	
			Range	641- 641	503- 670	525- 692	
			Sample Size	1	18	42	0
		F	Mean Length		574	585	
			Std. Error		9	8	
			Range		542- 612	550- 604	
			Sample Size	0	7	8	0
	7/8-16 (7/8-18)	M	Mean Length		601	616	678
			Std. Error		5	5	12
			Range		536- 651	503- 660	666- 690
			Sample Size	0	24	39	2
		F	Mean Length		574	637	
			Std. Error		6	10	
			Range		542- 602	619- 673	
			Sample Size	0	9	5	0

Appendix C.6. Mean length (mm) of chum salmon at the Kogrukluk River weir based on escapement samples collected with a fish trap. [a] (page 2 of 34)

Year	Sample Dates (Stratum Dates)	Sex		Age Class 0.2	0.3	0.4	0.5
	7/19-22,24-30 (7/19 - 8/12)	M	Mean Length		564	602	
			Std. Error		11	5	
			Range		495- 642	531- 686	
			Sample Size	0	12	39	0
		F	Mean Length		555	580	
			Std. Error		7	17	
			Range		528- 582	551- 612	
			Sample Size	0	9	4	0
	Season	M	Mean Length	641	591	610	678
			Range	641- 641	495- 670	503- 692	666- 690
			Sample Size	1	54	120	2
		F	Mean Length		569	609	
			Range		528- 612	550- 673	
			Sample Size	0	25	17	0
1978	6/28,7/1,3,6-7 (6/16-7/8)	M	Mean Length		593	624	
			Std. Error		6	4	
			Range		563- 656	554- 693	
			Sample Size	0	15	59	0
		F	Mean Length		595	604	
			Std. Error		18	5	
			Range		525- 801	557- 653	
			Sample Size	0	13	27	0
	7/10,13,16,19 (7/9-20)	M	Mean Length		597	617	
			Std. Error		5	5	
			Range		555- 652	570- 659	
			Sample Size	0	31	25	0
		F	Mean Length		577	590	
			Std. Error		3	6	
			Range		515- 613	534- 639	
			Sample Size	0	32	24	0
	7/22,25,28,31 (7/21-8/20)	M	Mean Length	506	593	626	
			Std. Error	7	3	12	
			Range	493- 514	550- 655	587- 681	
			Sample Size	3	47	7	0
		F	Mean Length	522	569	565	
			Std. Error	8	4	4	
			Range	514- 537	515- 615	561- 569	
			Sample Size	3	34	2	0

Appendix C.6. Mean length (mm) of chum salmon at the Kogrukluk River weir based on escapement samples collected with a fish trap. [a] (page 3 of 34)

Year	Sample Dates (Stratum Dates)	Sex		Age Class 0.2	0.3	0.4	0.5
	Season	M	Mean Length	506	596	621	
			Range	493- 514	550- 656	554- 693	
			Sample Size	3	93	91	0
		F	Mean Length	522	578	595	
			Range	514- 537	515- 801	534- 653	
			Sample Size	3	79	53	0
1980	7/3-6 (7/2-6)	M	Mean Length		565	634	
			Std. Error		6	29	
			Range		492- 646	605- 663	
			Sample Size	0	31	2	0
		F	Mean Length		570	574	
			Std. Error		8	-	
			Range		577- 584	574- 574	
			Sample Size	0	3	1	0
	7/7-10 (7/7-10)	M	Mean Length		574	594	
			Std. Error		6	9	
			Range		512- 682	568- 620	
			Sample size	0	37	5	0
		F	Mean Length		550	571	
			Std. Error		9	-	
			Range		541- 567	571- 571	
			Sample size	0	3	1	0
	Season	M	Mean Length		568	616	
			Range		492 -682	568- 663	
			Sample Size	0	68	7	0
		F	Mean Length		565	573	
			Range		541- 584	571- 574	
			Sample Size	0	6	2	0
1981	6/29;7/4,6 (6/15-7/13)	M	Mean Length		599	615	600
			Std. Error		11	3	-
			Range		579- 618	568- 675	600- 600
			Sample Size	0	3	57	1
		F	Mean Length		547	602	
			Std. Error		9	5	
			Range		510- 588	524- 689	
			Sample Size	0	9	38	0

Appendix C.6. Mean length (mm) of chum salmon at the Kogrukluk River weir based on escapement samples collected with a fish trap. [a] (page 4 of 34)

Year	Sample Dates (Stratum Dates)	Sex		Age Class 0.2	0.3	0.4	0.5
	7/14,20,22 27-28,30 (7/14-8/5)	M	Mean Length		590	618	
			Std. Error		17	5	
			Range		550- 685	560- 674	
			Sample Size	0	7	28	0
		F	Mean Length		558	583	
			Std. Error		10	6	
			Range		531- 585	557- 610	
			Sample Size	0	5	11	0
	8/6 (8/6-8/27)	M	Mean Length		568	587	
			Std. Error		5	9	
			Range		526- 597	554- 625	
			Sample Size	0	17	8	0
		F	Mean Length		558	572	
			Std. Error		14	-	
			Range		498- 599	572- 572	
			Sample Size	0	6	1	0
	Season	M	Mean Length		592	616	600
			Range		526- 685	554- 675	600- 600
			Sample Size	0	27	93	1
		F	Mean Length		551	598	
			Range		498- 599	524- 689	
			Sample Size	0	20	50	0
1982	7/10-13 (6/17-7/13)	M	Mean Length		577	601	
			Std. Error		6	4	
			Range		543- 605	576- 632	
			Sample Size	0	13	13	0
		F	Mean Length		561	577	
			Std. Error		4	5	
			Range		534- 594	543- 602	
			Sample Size	0	14	14	0
	7/14-25 (7/14-7/25)	M	Mean Length		579	602	
			Std. Error		3	6	
			Range		521- 620	554- 661	
			Sample Size	0	44	18	0
		F	Mean Length		557	586	
			Std. Error		4	6	
			Range		522- 606	562- 613	
			Sample Size	0	42	9	0

Appendix C.6. Mean length (mm) of chum salmon at the Kogrukluk River weir based on escapement samples collected with a fish trap. [a] (page 5 of 34)

Year	Sample Dates (Stratum Dates)	Sex		Age Class 0.2	0.3	0.4	0.5
	7/26-8/4 (7/26-8/22)	M	Mean Length		576	603	
			Std. Error		4	6	
			Range		522- 631	569- 639	
			Sample Size	0	44	15	0
		F	Mean Length		572	577	645
			Std. Error		6	7	-
			Range		509- 624	561- 599	645- 645
			Sample Size	0	26	5	1
	Season	M	Mean Length		578	602	
			Range		521- 631	554- 661	
			Sample Size	0	101	46	0
		F	Mean Length		560	578	645
			Range		509- 624	543- 613	645- 645
			Sample Size	0	82	28	1
1983 [d]	6/24-27	M	Mean Length		598	617	650
			Std. Error		8	4	14
			Range		575- 632	560- 676	636- 664
			Sample size	0	6	54	2
		F	Mean Length		590	593	570
			Std. Error		-	5	21
			Range		590- 590	521- 675	549- 590
			Sample size	0	1	30	2
	6/28-7/1	M	Mean Length		568	614	612
			Std. Error		8	4	-
			Range		545- 614	512- 682	612- 612
			Sample Size	0	8	67	1
		F	Mean Length		511	589	
			Std. Error		-	4	
			Range		511- 511	533- 635	
			Sample Size	0	2	33	0
	7/2,6-8	M	Mean Length		588	615	651
			Std. Error		11	5	15
			Range		555- 623	533- 699	636- 665
			Sample Size	0	5	55	2
		F	Mean Length		559	571	604
			Std. Error		7	6	-
			Range		525- 594	500- 688	604- 604
			Sample Size	0	10	40	1

Appendix C.6. Mean length (mm) of chum salmon at the Kogrukluk River weir based on escapement samples collected with a fish trap. [a] (page 6 of 34)

Year	Sample Dates (Stratum Dates)	Sex		Age Class 0.2	0.3	0.4	0.5
	7/9-12	M	Mean Length		574	602	606
			Std. Error		46	6	7
			Range		528- 619	549- 668	577- 629
			Sample Size	0	2	23	8
		F	Mean Length		543	582	564
			Std. Error		23	8	-
			Range		512- 612	521- 685	564- 564
			Sample Size	0	4	18	1
	8/13-16	M	Mean Length		558	586	
			Std. Error		6	8	
			Range		514- 599	535- 639	
			Sample Size	0	20	15	0
		F	Mean Length	468	545	586	
			Std. Error	-	5	12	
			Range	468- 468	467- 588	510- 671	
			Sample Size	1	32	15	0
	8/17-9/13	M	Mean Length		563	601	
			Std. Error		10	10	
			Range		528- 608	562- 621	
			Sample Size	0	7	5	0
		F	Mean Length	520	535	551	
			Std. Error	-	5	15	
			Range	520- 520	503- 555	522- 568	
			Sample Size	1	10	3	0
	Season	M	Mean Length		569	612	620
			Range		514- 632	512- 699	577- 665
			Sample Size	0	48	219	13
		F	Mean Length	494	545	583	577
			Range	468- 520	467- 612	500- 688	549- 604
			Sample Size	2	59	139	4
1984	6/19,21,23-25 (6/19-25)	M	Mean Length		573	601	638
			Std. Error		8	10	24
			Range		545- 608	439- 680	592- 703
			Sample Size	0	8	22	4
		F	Mean Length		564	574	598
			Std. Error		4	9	18
			Range		559- 573	530- 650	580- 615
			Sample Size	0	3	13	2

Appendix C.6. Mean length (mm) of chum salmon at the Kogrukluk River weir based on escapement samples collected with a fish trap. [a] (page 7 of 34)

Year	Sample Dates (Stratum Dates)	Sex		Age Class 0.2	0.3	0.4	0.5
	6/26-29 (6/26-29)	M	Mean Length		582	615	614
			Std. Error		7	5	9
			Range		473- 640	560- 704	560- 661
			Sample Size	0	30	37	10
		F	Mean Length		559	577	596
			Std. Error		5	4	18
			Range		523- 595	553- 612	554- 654
			Sample Size	0	16	18	5
	6/30-7/3 (6/30-7/3)	M	Mean Length		568	611	607
			Std. Error		3	5	18
			Range		511- 618	543- 653	561- 670
			Sample Size	0	49	25	5
		F	Mean Length		561	585	595
			Std. Error		6	6	10
			Range		511- 597	532- 608	565- 605
			Sample Size	0	19	13	4
	7/4-7 (7/4-7)	M	Mean Length		574	595	600
			Std. Error		3	10	10
			Range		530- 638	539- 649	590- 610
			Sample Size	0	52	13	2
		F	Mean Length		551	567	565
			Std. Error		5	6	-
			Range		498- 599	534- 635	565- 565
			Sample Size	0	26	18	1
	7/8-11 (7/8-11)	M	Mean Length		579	599	
			Std. Error		3	8	
			Range		532- 648	564- 663	
			Sample size	0	60	14	0
		F	Mean Length		552	571	533
			Std. Error		4	9	-
			Range		520- 618	520- 633	533- 533
			Sample size	0	30	11	1
	7/12-15 (7/12-15)	M	Mean Length		575	592	
			Std. Error		3	8	
			Range		528- 640	545- 635	
			Sample Size	0	53	13	0
		F	Mean Length		548	568	
			Std. Error		4	8	
			Range		484- 599	541- 600	
			Sample Size	0	42	9	0

Appendix C.6. Mean length (mm) of chum salmon at the Kogrukluk River weir based on escapement samples collected with a fish trap. [a] (page 8 of 34)

Year	Sample Dates (Stratum Dates)	Sex		Age Class 0.2	0.3	0.4	0.5
	7/16-19	M	Mean Length		578	602	
	(7/16-19)		Std. Error		3	13	
			Range		534- 644	560- 668	
			Sample Size	0	62	8	0
		F	Mean Length		546	537	
			Std. Error		4	7	
			Range		495- 606	527- 550	
			Sample Size	0	41	3	0
	7/20-23	M	Mean Length		571	596	
	(7/20-23)		Std. Error		3	14	
			Range		514- 636	542- 644	
			Sample Size	0	74	7	0
		F	Mean Length		552	590	564
			Std. Error		5	5	-
			Range		484- 594	585- 595	564- 564
			Sample Size	0	28	2	1
	7/24-27	M	Mean Length		574	612	
	(7/24-27)		Std. Error		3	16	
			Range		528- 640	552- 662	
			Sample Size	0	72	6	0
		F	Mean Length		550	609	
			Std. Error		4	-	
			Range		505- 591	609- 609	
			Sample Size	0	34	1	0
	7/28-31	M	Mean Length		574	608	
	(7/28-31)		Std. Error		3	15	
			Range		522- 624	588- 637	
			Sample Size	0	86	3	0
		F	Mean Length		549	570	
			Std. Error		6	-	
			Range		512- 608	570- 570	
			Sample Size	0	21	1	0
	8/1-4	M	Mean Length		573	592	
	(8/1-4)		Std. Error		3	31	
			Range		470- 628	501- 634	
			Sample Size	0	81	4	0
		F	Mean Length		541	556	
			Std. Error		4	-	
			Range		504- 596	556- 556	
			Sample Size	0	31	1	0

Appendix C.6. Mean length (mm) of chum salmon at the Kogrukluk River weir based on escapement samples collected with a fish trap. [a] (page 9 of 34)

Year	Sample Dates (Stratum Dates)	Sex		Age Class 0.2	0.3	0.4	0.5
	8/6-11,14-15 (8/5-18)	M	Mean Length		574	590	
			Std. Error		4	-	
			Range		539- 644	590- 590	
			Sample size	0	43	1	0
		F	Mean Length		545	633	
			Std. Error		10	-	
			Range		490- 580	633- 633	
			Sample size	0	12	1	0
	Season	M	Mean Length		575	599	606
			Range		470- 664	439- 704	560- 703
			Sample size	0	670	153	21
		F	Mean Length		550	570	571
			Range		484- 618	520- 650	533- 654
			Sample size	0	303	91	14
1985	7/7-10 (6/23-7/10)	M	Mean Length		580	600	
			Std. Error		7	4	
			Range		528- 626	530- 669	
			Sample Size	0	17	49	0
		F	Mean Length		555	573	
			Std. Error		10	4	
			Range		522- 593	527- 656	
			Sample Size	0	6	44	0
	7/11-14 (7/11-14)	M	Mean Length		575	597	
			Std. Error		6	4	
			Range		531- 612	548- 668	
			Sample Size	0	18	52	0
		F	Mean Length		558	575	
			Std. Error		6	4	
			Range		524- 580	539- 624	
			Sample Size	0	10	36	0
	7/15-18 (7/15-18)	M	Mean Length		581	584	
			Std. Error		6	5	
			Range		544- 617	516- 688	
			Sample Size	0	15	49	0
		F	Mean Length		553	566	
			Std. Error		8	4	
			Range		509- 586	525- 634	
			Sample Size	0	12	36	0

Appendix C.6. Mean length (mm) of chum salmon at the Kogrukluk River weir based on escapement samples collected with a fish trap. [a] (page 10 of 34)

Year	Sample Dates (Stratum Dates)	Sex		Age Class 0.2	0.3	0.4	0.5
	7/19-22	M	Mean Length	495	572	591	574
	(7/19-22)		Std. Error	-	4	5	17
			Range	495- 495	536- 607	518- 651	548- 607
			Sample Size	1	22	40	3
		F	Mean Length		550	568	
			Std. Error		5	6	
			Range		509- 576	495- 629	
			Sample Size	0	17	29	0
	7/23-27	M	Mean Length	562	570	585	613
	(7/23-27)		Std. Error	-	4	5	-
			Range	562- 562	492- 611	510- 721	613- 613
			Sample Size	1	35	64	1
		F	Mean Length		552	561	
			Std. Error		6	5	
			Range		524- 591	513- 627	
			Sample Size	0	14	27	0
	7/29-8/1	M	Mean Length		573	577	
	(7/29-8/1)		Std. Error		8	6	
			Range		518- 616	514- 673	
			Sample Size	0	15	35	0
		F	Mean Length		541	554	
			Std. Error		5	4	
			Range		496- 584	513- 591	
			Sample Size	0	26	30	0
	8/2-3,5-6	M	Mean Length		564	572	
	(8/2-6)		Std. Error		6	7	
			Range		528- 595	515- 630	
			Sample Size	0	13	18	0
		F	Mean Length		535	550	
			Std. Error		5	4	
			Range		495- 568	509- 598	
			Sample Size	0	15	34	0
	8/7-9	M	Mean Length		532	567	
	(8/7-9)		Std. Error		19	8	
			Range		502- 568	513- 628	
			Sample Size	0	3	15	0
		F	Mean Length		533	550	
			Std. Error		9	5	
			Range		495- 604	520- 586	
			Sample Size	0	11	17	0

Appendix C.6. Mean length (mm) of chum salmon at the Kogrukluk River weir based on escapement samples collected with a fish trap. [a] (page 11 of 34)

Year	Sample Dates (Stratum Dates)	Sex		Age Class 0.2	0.3	0.4	0.5
	8/10,12-15 (8/10-28)	M	Mean Length		501	555	
			Std. Error		-	9	
			Range		501- 501	518- 605	
			Sample Size	0	1	11	0
		F	Mean Length		524	539	
			Std. Error		9	4	
			Range		453- 565	499- 580	
			Sample Size	0	15	17	0
	Season	M	Mean Length	528	574	590	584
			Range	495- 562	492- 626	510- 721	548- 613
			Sample size	2	139	333	4
		F	Mean Length		548	567	
			Range		453- 604	495- 656	
			Sample size	0	126	270	0
1986	6/29-7/3 (6/23-7/3)	M	Mean Length		578	608	642
			Std. Error		5	5	12
			Range		508- 635	562- 656	630- 653
			Sample Size	0	39	27	2
		F	Mean Length		555	578	578
			Std. Error		4	8	3
			Range		518- 608	540- 633	575- 580
			Sample Size	0	26	13	2
	7/4-7 (7/4-7)	M	Mean Length		582	598	590
			Std. Error		3	4	-
			Range		515- 630	536- 636	590- 590
			Sample Size	0	62	26	1
		F	Mean Length		567	560	553
			Std. Error		5	3	-
			Range		532- 624	556- 576	553- 553
			Sample Size	0	17	6	1
	7/8-11 (7/8-11)	M	Mean Length		579	590	618
			Std. Error		3	6	3
			Range		538- 617	513- 651	615- 621
			Sample Size	0	49	28	2
		F	Mean Length		556	578	
			Std. Error		4	7	
			Range		516- 605	535- 620	
			Sample Size	0	24	14	0

Appendix C.6. Mean length (mm) of chum salmon at the Kogrukluk River weir based on escapement samples collected with a fish trap. [a] (page 12 of 34)

Year	Sample Dates (Stratum Dates)	Sex		Age Class 0.2	0.3	0.4	0.5
	7/12-15 (7/12-15)	M	Mean Length	559	581	607	590
			Std. Error	-	4	8	15
			Range	559- 559	530- 661	575- 642	575- 619
			Sample Size	1	47	9	3
		F	Mean Length	543	548	559	555
			Std. Error	-	4	6	-
			Range	543- 543	500- 606	520- 589	555- 555
			Sample Size	1	40	10	1
	7/16-19 (7/16-8/29)	M	Mean Length		577	600	610
			Std. Error		4	11	-
			Range		506- 639	552- 665	610- 610
			Sample Size	0	49	11	1
		F	Mean Length		549	561	582
			Std. Error		4	6	-
			Range		502- 595	540- 599	582- 582
			Sample Size	0	41	12	1
	Season	M	Mean Length	559	579	597	605
			Range	559- 559	506- 661	513- 665	575- 653
			Sample size	1	246	101	9
		F	Mean Length	543	551	568	568
			Range	543- 543	500- 624	520- 633	553- 582
			Sample size	1	148	55	5
1987 [d]	7/15-16	M	Mean Length		583	595	599
			Std. Error		13	4	13
			Range		570- 595	550- 665	560- 615
			Sample Size	0	2	31	4
		F	Mean Length		550	568	535
			Std. Error		-	7	-
			Range		550- 550	505- 605	535- 535
			Sample Size	0	1	18	1
	8/10-11	M	Mean Length		531	560	572
			Std. Error		9	8	19
			Range		485- 600	520- 640	540- 605
			Sample Size	0	13	16	3
		F	Mean Length		536	553	
			Std. Error		5	6	
			Range		515- 550	520- 590	
			Sample Size	0	6	13	0

Appendix C.6. Mean length (mm) of chum salmon at the Kogrukluk River weir based on escapement samples collected with a fish trap. [a] (page 13 of 34)

Year	Sample Dates (Stratum Dates)	Sex		Age Class 0.2	0.3	0.4	0.5
	8/12-14	M	Mean Length		530	556	585
			Std. Error		14	10	33
			Range		490- 575	510- 615	545- 650
			Sample Size	0	5	11	3
		F	Mean Length		501	534	575
			Std. Error		8	6	15
			Range		460- 525	490- 600	560- 590
			Sample Size	0	9	22	2
1988	No data is available for the 1988 season.						
1989 [d]	7/7-14	M	Mean Length		582	601	608
			Std. Error		6	3	9
			Range		530- 630	510- 680	595- 625
			Sample Size	0	15	85	3
		F	Mean Length		554	578	575
			Std. Error		6	6	20
			Range		515- 590	530- 670	555- 595
			Sample Size	0	14	28	2
1990[e]	6/30-7/7 (6/18-7/7)	M	Mean Length	555	583	619	620
			Std. Error	-	4	4	6
			Range	555- 555	530- 655	560- 698	605- 640
			Sample Size	1	51	51	5
		F	Mean Length		569	583	
			Std. Error		7	3	
			Range		523- 645	555- 620	
			Sample Size	0	21	19	0
	7/8-7/14 (7/8-14)	M	Mean Length		576	607	
			Std. Error		3	6	
			Range		521- 623	500- 710	
			Sample Size	0	63	38	0
		F	Mean Length		571	582	
			Std. Error		7	5	
			Range		522- 620	550- 620	
			Sample Size	0	16	14	0

Appendix C.6. Mean length (mm) of chum salmon at the Kogrukluk River weir based on escapement samples collected with a fish trap. [a] (page 14 of 34)

Year	Sample Dates (Stratum Dates)	Sex		Age Class 0.2	0.3	0.4	0.5
	7/15-7/22 (7/15-8/29)	M	Mean Length	566	573	604	648
			Std. Error	14	4	20	-
			Range	552- 580	512- 658	527- 690	648- 648
			Sample Size	2	69	7	1
		F	Mean Length	541	548	573	
			Std. Error	-	5	8	
			Range	541- 541	530- 566	558- 588	
			Sample Size	1	8	4	0
	Season	M	Mean Length	564	576	612	628
			Range	552- 580	512- 658	500- 710	605- 648
			Sample Size	3	183	96	6
		F	Mean Length	541	564	581	
			Range	541- 541	522- 645	550- 620	
			Sample Size	1	45	37	0
1991	7/6-10 (6/23-7/10)	M	Mean Length	550	590	602	
			Std. Error	-	6	4	
			Range	500- 550	545- 660	540- 665	
			Sample Size	1	22	45	0
		F	Mean Length		576	586	
			Std. Error		8	9	
			Range		555- 605	560- 615	
			Sample Size	0	5	5	0
	7/11-14 (7/11-14)	M	Mean Length	540	581	596	
			Std. Error	-	6	5	
			Range	540- 540	520- 640	540- 655	
			Sample Size	1	31	29	0
		F	Mean Length		571	548	
			Std. Error		14	28	
			Range		540- 635	520- 575	
			Sample Size	0	6	2	0
	7/14-18 (7/14-18)	M	Mean Length		583	594	
			Std. Error		4	7	
			Range		535- 635	535- 670	
			Sample Size	0	33	20	0
		F	Mean Length		541	558	
			Std. Error		12	8	
			Range		480- 585	550- 565	
			Sample Size	0	8	2	0

Appendix C.6. Mean length (mm) of chum salmon at the Kogrukluk River weir based on escapement samples collected with a fish trap. [a] (page 15 of 34)

Year	Sample Dates (Stratum Dates)	Sex		Age Class 0.2	0.3	0.4	0.5
	7/19-23 (7/19-8/29)	M	Mean Length		575	584	
			Std. Error		5	6	
			Range		500- 645	530- 640	
			Sample Size	0	42	26	0
		F	Mean Length		540	560	
			Std. Error		9	4	
			Range		495- 610	555- 570	
			Sample Size	0	11	4	0
	Season	M	Mean Length	544	579	592	
			Range	540- 550	500- 660	530- 670	
			Sample Size	2	128	120	0
		F	Mean Length		547	564	
			Range		480- 635	520- 615	
			Sample Size	0	30	13	0
1992	7/2-4 (6/17-7/9)	M	Mean Length		580	592	595
			Std. Error		4	3	-
			Range		540- 640	520- 720	595- 595
			Sample Size	0	29	92	1
		F	Mean Length		567	570	575
			Std. Error		6	4	-
			Range		510- 605	500- 620	575- 575
			Sample Size	0	19	34	1
	7/15-17 (7/10 - 8/21)	M	Mean Length	585	589	594	610
			Std. Error	11	3	4	-
			Range	565- 635	535- 670	530- 645	610- 610
			Sample Size	6	67	47	1
		F	Mean Length	553	556	574	
			Std. Error	15	4	4	
			Range	530- 580	505- 600	540- 615	
			Sample Size	3	36	26	0
	Season	M	Mean Length	585	586	593	603
			Range	565- 635	535- 670	520- 720	595- 610
			Sample size	6	96	139	2
		F	Mean Length	553	559	572	575
			Range	530- 580	505- 605	500- 620	575- 575
			Sample size	3	55	60	1

Appendix C.6. Mean length (mm) of chum salmon at the Kogrukluk River weir based on escapement samples collected with a fish trap. [a] (page 16 of 34)

Year	Sample Dates (Stratum Dates)	Sex		Age Class 0.2	0.3	0.4	0.5
1993	7/8-10 (6/17-7/14)	M	Mean Length		612	609	611
			Std. Error		5	3	8
			Range		545- 650	550- 665	575- 655
			Sample Size	0	32	96	9
		F	Mean Length		584	584	569
			Std. Error		10	6	6
			Range		550- 670	505- 630	560- 590
			Sample Size	0	11	27	5
	7/20-24 (7/15-8/20)	M	Mean Length		574	579	582
			Std. Error		3	2	14
			Range		530- 640	530- 640	565- 610
			Sample Size	0	73	83	3
		F	Mean Length		542	547	
			Std. Error		10	7	
			Range		505- 615	525- 600	
			Sample Size	0	10	12	0
	Season	M	Mean Length		587	596	604
			Range		530- 650	530- 665	565- 655
			Sample size	0	105	179	12
		F	Mean Length		565	574	569
			Range		505 -670	505- 630	560- 590
			Sample size	0	21	39	5
1994 [f]	7/8-9	M	Mean Length		594	603	607
			Std. Error		4	3	9
			Range		550- 640	545- 655	570- 630
			Sample Size	0	33	57	6
		F	Mean Length		575	567	
			Std. Error		6	6	
			Range		530- 615	530- 605	
			Sample Size	0	13	16	0
1995	7/4-5 (7/2-6)	M	Mean Length		591	604	613
			Std. Error		8	3	7
			Range		360- 695	535- 685	600- 625
			Sample Size	0	39	71	3
		F	Mean Length		569	568	
			Std. Error		6	10	
			Range		530- 600	450- 605	
			Sample Size	0	12	15	0

Appendix C.6. Mean length (mm) of chum salmon at the Kogrukluk River weir based on escapement samples collected with a fish trap. [a] (page 17 of 34)

Year	Sample Dates (Stratum Dates)	Sex		Age Class 0.2	0.3	0.4	0.5
	7/9-10 (7/7-13)	M	Mean Length	585	590	601	
			Std. Error	-	5	3	
			Range	585- 585	535- 650	515- 675	
			Sample Size	1	37	77	0
		F	Mean Length		558	591	
			Std. Error		23	7	
			Range		535- 580	545- 610	
			Sample Size	0	2	9	0
	7/16-17 (7/14-18)	M	Mean Length	560	592	597	
			Std. Error	28	5	4	
			Range	525- 615	500- 680	525- 650	
			Sample Size	3	62	51	0
		F	Mean Length		580	572	
			Std. Error		7	9	
			Range		535- 610	545- 600	
			Sample Size	0	13	7	0
	7/20-21 (7/19-24)	M	Mean Length		581	596	573
			Std. Error		4	6	23
			Range		530- 650	525- 680	550- 620
			Sample Size	0	69	44	3
		F	Mean Length		562	555	
			Std. Error		9	12	
			Range		520- 620	520- 580	
			Sample Size	0	10	5	0
	7/27-28 (7/25-31)	M	Mean Length	524	577	586	
			Std. Error	11	3	4	
			Range	490- 550	525- 660	535- 645	
			Sample Size	5	72	36	0
		F	Mean Length	525	560	572	
			Std. Error	-	6	11	
			Range	525- 525	525- 575	545- 610	
			Sample Size	1	8	6	0
	8/2-3 (8/1-5)	M	Mean Length	540	570	572	
			Std. Error	6	3	6	
			Range	525- 565	510- 625	490- 640	
			Sample Size	6	53	31	0
		F	Mean Length	513	559	555	
			Std. Error	3	7	20	
			Range	510- 515	490- 605	535- 575	
			Sample Size	2	16	2	0

Appendix C.6. Mean length (mm) of chum salmon at the Kogrukluk River weir based on escapement samples collected with a fish trap. [a] (page 18 of 34)

Year	Sample Dates (Stratum Dates)	Sex		Age Class 0.2	0.3	0.4	0.5
	8/6,8,10 (8/6-9/3)	M	Mean Length	538	575	586	
			Std. Error	6	4	9	
			Range	520- 560	525- 615	525- 650	
			Sample Size	6	32	16	0
		F	Mean Length	515	526	533	
			Std. Error	13	7	3	
			Range	470- 565	480- 565	525- 540	
			Sample Size	6	12	4	0
	Season	M	Mean Length	552	586	599	593
			Range	490- 615	360- 695	490- 685	550- 620
			Sample size	21	364	326	6
		F	Mean Length	518	567	574	
			Range	470- 565	480- 620	450- 610	
			Sample size	9	73	48	0
1996	7/2 (6/19-7/5)	M	Mean Length	565	613	623	628
			Std. Error	-	4	3	14
			Range	565- 565	565- 674	570- 665	589- 650
			Sample Size	1	60	55	4
		F	Mean Length	576	584	569	
			Std. Error	15	9	23	
			Range	556- 605	535- 625	532- 610	
			Sample Size	3	10	3	0
	7/8-9 (7/6-7/11)	M	Mean Length	609	607	630	598
			Std. Error	45	3	6	3
			Range	564- 654	555- 683	575- 692	595- 605
			Sample Size	2	69	29	3
		F	Mean Length		591	596	
			Std. Error		5	9	
			Range		568- 630	575- 625	
			Sample Size	0	13	5	0
	7/13-14 (7/12-17)	M	Mean Length		604	614	
			Std. Error		3	5	
			Range		524- 694	565- 683	
			Sample Size	0	92	27	0
		F	Mean Length	590	573	600	
			Std. Error	-	4	11	
			Range	590- 590	545- 600	553- 637	
			Sample Size	1	21	9	0

Appendix C.6. Mean length (mm) of chum salmon at the Kogrukluk River weir based on escapement samples collected with a fish trap. [a] (page 19 of 34)

Year	Sample Dates (Stratum Dates)	Sex		Age Class 0.2	0.3	0.4	0.5
	7/21-22 (7/18-24)	M	Mean Length	560	598	606	
			Std. Error	2	2	4	
			Range	558- 561	518- 643	556- 644	
			Sample Size	2	102	21	0
		F	Mean Length		581	578	
			Std. Error		9	10	
			Range		498- 638	547- 595	
			Sample Size	0	18	5	0
	7/26,28-29 (7/25-31)	M	Mean Length	563	592	607	
			Std. Error	21	3	8	
			Range	542- 583	523- 674	564- 650	
			Sample Size	2	116	10	0
		F	Mean Length	606	568	570	
			Std. Error	-	5	2	
			Range	606- 606	537- 603	568- 571	
			Sample Size	1	17	2	0
	8/3-7 (8/1-9/13)	M	Mean Length	591	585	595	580
			Std. Error	10	3	7	-
			Range	581- 600	527- 656	562- 631	580- 580
			Sample Size	2	89	9	1
		F	Mean Length		567	545	566
			Std. Error		6	16	-
			Range		500- 610	529- 560	566- 566
			Sample Size	0	15	2	1
	Season	M	Mean Length	588	605	622	614
			Range	542- 654	518- 694	556- 692	580- 650
			Sample size	9	528	151	8
		F	Mean Length	580	581	590	566
			Range	556- 606	498- 638	529- 637	566- 566
			Sample size	5	94	26	1
1997	7/3-6 (6/22-7/7)	M	Mean Length		597	621	600
			Std. Error		5	2	-
			Range		555- 665	545- 695	600- 600
			Sample Size	0	32	123	1
		F	Mean Length		625	590	
			Std. Error		-	8	
			Range		625- 625	555- 635	
			Sample Size	0	1	10	0

Appendix C.6. Mean length (mm) of chum salmon at the Kogrukluk River weir based on escapement samples collected with a fish trap. [a] (page 20 of 34)

Year	Sample Dates (Stratum Dates)	Sex		Age Class 0.2	0.3	0.4	0.5
	7/10-13 (7/8-15)	M	Mean Length	555	595	617	628
			Std. Error	-	4	2	3
			Range	555- 555	540- 665	555- 680	625- 630
			Sample Size	1	63	108	2
		F	Mean Length		569	584	
			Std. Error		10	8	
			Range		550- 595	570- 605	
			Sample Size	0	4	4	0
	7/18-22 (7/16-23)	M	Mean Length	540	594	605	
			Std. Error	-	3	3	
			Range	540- 540	535- 670	530- 670	
			Sample Size	1	107	75	0
		F	Mean Length		593	569	
			Std. Error		3	13	
			Range		590- 595	540- 590	
			Sample Size	0	2	4	0
	7/26,29 (7/24-31)	M	Mean Length	530	584	605	610
			Std. Error	-	3	5	-
			Range	530- 530	545- 630	575- 660	610- 610
			Sample Size	1	44	22	1
		F	Mean Length				
			Std. Error				
			Range				
			Sample Size	0	0	0	0
	8/3-5 (8/1-9/10)	M	Mean Length		574	570	
			Std. Error		4	10	
			Range		515- 635	560- 580	
			Sample Size	0	32	2	0
		F	Mean Length				
			Std. Error				
			Range				
			Sample Size	0	0	0	0
	Season	M	Mean Length	542	590	615	616
			Range	530- 555	515- 670	530- 695	600- 630
			Sample Size	3	278	330	4
		F	Mean Length		584	585	
			Range		550- 625	540- 635	
			Sample Size	0	7	18	0

Appendix C.6. Mean length (mm) of chum salmon at the Kogrukluk River weir based on escapement samples collected with a fish trap. [a] (page 21 of 34)

Year	Sample Dates (Stratum Dates)	Sex		Age Class 0.2	0.3	0.4	0.5
1998 [a]	7/23-26	M	Mean Length		596	621	
			Std. Error		2	8	
			Range		500- 650	570- 680	
			Sample Size	0	154	17	0
		F	Mean Length		558	580	
			Std. Error		6	-	
			Range		510- 620	580- 580	
			Sample Size	0	20	2	0
1999	7/8-11 (7/1-13)	M	Mean Length		591	604	600
			Std. Error		3	3	-
			Range		535- 630	520- 675	600- 600
			Sample Size	0	68	110	1
		F	Mean Length		569	579	
			Std. Error		10	7	
			Range		535- 610	545- 615	
			Sample Size	0	7	10	0
	7/16-20 (7/14-21)	M	Mean Length		588	606	
			Std. Error		3	3	
			Range		525- 650	545- 670	
			Sample Size	0	78	95	0
		F	Mean Length		541	592	540
			Std. Error		10	12	-
			Range		510- 555	560- 645	540- 540
			Sample Size	0	4	6	1
	7/23-24 (7/22-25)	M	Mean Length		585	602	
			Std. Error		3	5	
			Range		515- 650	555- 660	
			Sample Size	0	57	42	0
		F	Mean Length		562	576	
			Std. Error		10	10	
			Range		535- 610	560- 600	
			Sample Size	0	7	4	0
	7/26-29 (7/26-30)	M	Mean Length		578	598	
			Std. Error		2	4	
			Range		505- 630	530- 685	
			Sample Size	0	94	60	0
		F	Mean Length		564	583	
			Std. Error		6	15	
			Range		515- 600	530- 615	
			Sample Size	0	15	6	0

Appendix C.6. Mean length (mm) of chum salmon at the Kogrukluk River weir based on escapement samples collected with a fish trap. [a] (page 22 of 34)

Year	Sample Dates (Stratum Dates)	Sex		Age Class 0.2	0.3	0.4	0.5
	7/31,8/2 (7/31-10/5)	M	Mean Length		587	601	
			Std. Error		3	7	
			Range		540- 630	540- 640	
			Sample Size	0	48	17	0
		F	Mean Length		568	593	
			Std. Error		3	23	
			Range		560- 570	550- 630	
			Sample Size	0	4	3	0
	Season	M	Mean Length		587	604	600
			Range		505- 650	520- 685	600- 600
			Sample Size	0	345	324	1
		F	Mean Length		562	584	540
			Range		510- 610	530- 645	540- 540
			Sample Size	0	37	29	1
2000	7/7-11 (7/2-12)	M	Mean Length		583	615	645
			Std. Error		2	3	-
			Range		540- 635	570- 685	645- 645
			Sample Size	0	79	79	1
		F	Mean Length		559	582	
			Std. Error		17	6	
			Range		500- 620	520- 620	
			Sample Size	0	6	16	0
	7/15-21 (7/13-22)	M	Mean Length	580	583	598	
			Std. Error	10	2	6	
			Range	570- 590	505- 645	545- 675	
			Sample Size	2	114	28	0
		F	Mean Length		576	587	
			Std. Error		5	5	
			Range		530- 630	560- 630	
			Sample Size	0	23	14	0
	7/25-31 (7/23-8/4)	M	Mean Length	570	582	597	620
			Std. Error	13	2	8	-
			Range	550- 595	500- 640	525- 655	620- 620
			Sample Size	3	143	20	1
		F	Mean Length		554	552	
			Std. Error		7	24	
			Range		515- 580	525- 600	
			Sample Size	0	11	3	0

Appendix C.6. Mean length (mm) of chum salmon at the Kogrukluk River weir based on escapement samples collected with a fish trap. [a] (page 23 of 34)

Year	Sample Dates (Stratum Dates)	Sex		Age Class 0.2	0.3	0.4	0.5
	8/8,11 (8/5-29)	M	Mean Length	535	578	600	
			Std. Error	5	6	20	
			Range	530- 540	520- 630	580- 620	
			Sample Size	2	25	2	0
		F	Mean Length	527	537	570	
			Std. Error	7	9	-	
			Range	520- 540	500- 580	570- 570	
			Sample Size	3	7	1	0
	Season	M	Mean Length	568	582	609	636
			Range	530- 595	500- 645	525- 685	620- 645
			Sample Size	7	361	129	2
		F	Mean Length	527	567	582	
			Range	520- 540	500- 630	520- 630	
			Sample Size	3	47	34	0
2001	7/7,8 (6/28-7/10)	M	Mean Length		595	604	
			Std. Error		7	4	
			Range		530- 692	564- 645	
			Sample Size	0	24	30	0
		F	Mean Length		576	602	
			Std. Error		34	9	
			Range		542- 610	571- 650	
			Sample Size	0	2	9	0
	7/12-14 (7/11-12)	M	Mean Length		579	601	
			Std. Error		4	4	
			Range		503- 650	520- 685	
			Sample Size	0	64	63	0
		F	Mean Length	561	561	577	
			Std. Error	-	8	6	
			Range	561- 561	508- 632	535- 620	
			Sample Size	1	17	16	0
	7/29-30 (7/22-8/1)	M	Mean Length		575	598	
			Std. Error		2	5	
			Range		502- 648	548- 682	
			Sample Size	0	115	33	0
		F	Mean Length	498	561	577	
			Std. Error	-	7	8	
			Range	498- 498	514- 611	543- 591	
			Sample Size	1	16	6	0

Appendix C.6. Mean length (mm) of chum salmon at the Kogrukluk River weir based on escapement samples collected with a fish trap. [a] (page 24 of 34)

Year	Sample Dates (Stratum Dates)	Sex		Age Class 0.2	0.3	0.4	0.5
	8/3-4 (8/2-5)	M	Mean Length		577	597	
			Std. Error		2	6	
			Range		505- 660	550- 660	
			Sample Size	0	143	23	0
		F	Mean Length		564	584	
			Std. Error		4	2	
			Range		545- 585	580- 590	
			Sample Size	0	10	4	0
	8/6-8 (8/6-29)	M	Mean Length	530	568	603	
			Std. Error	-	2	9	
			Range	530- 530	500- 630	530- 650	
			Sample Size	1	135	13	0
		F	Mean Length		574		
			Std. Error		8		
			Range		525- 610		
			Sample Size	0	12	0	0
	Season	M	Mean Length	530	579	601	
			Range	530- 530	500- 692	520- 685	
			Sample Size	1	481	162	0
		F	Mean Length	541	562	584	
			Range	498- 561	508- 632	535- 650	
			Sample Size	2	57	35	0
2002	6/28-29 (6/26-7/1)	M	Mean Length		593	617	627
			Std. Error		3	3	6
			Range		532- 647	565- 696	603- 657
			Sample Size	0	73	83	9
		F	Mean Length		578	585	608
			Std. Error		10	6	-
			Range		540- 625	551- 629	608- 608
			Sample Size	0	7	13	1
	7/3-4 (7/2-6)	M	Mean Length		586	593	615
			Std. Error		4	5	-
			Range		540- 679	524- 690	615- 615
			Sample Size	0	58	36	1
		F	Mean Length		554	582	538
			Std. Error		7	16	-
			Range		525- 572	523- 620	538- 538
			Sample Size	0	8	5	1

Appendix C.6. Mean length (mm) of chum salmon at the Kogrukluk River weir based on escapement samples collected with a fish trap. [a] (page 25 of 34)

Year	Sample Dates (Stratum Dates)	Sex		Age Class 0.2	0.3	0.4	0.5
	7/8-9 (7/7-12)	M	Mean Length		579	595	584
			Std. Error		3	6	-
			Range		518- 685	539- 663	584- 584
			Sample Size	0	108	31	1
		F	Mean Length		554	550	
			Std. Error		6	9	
			Range		490- 607	520- 590	
			Sample Size	0	24	8	0
	7/15-16 (7/13-19)	M	Mean Length		579	596	577
			Std. Error		2	6	-
			Range		524- 648	556- 630	577- 577
			Sample Size	0	131	18	1
		F	Mean Length		544	546	
			Std. Error		6	13	
			Range		502- 612	529- 571	
			Sample Size	0	21	3	0
	7/22-23 (7/20-26)	M	Mean Length	554	574	584	
			Std. Error	-	3	7	
			Range	554- 554	501- 671	528- 641	
			Sample Size	1	130	20	0
		F	Mean Length		548	537	
			Std. Error		5	23	
			Range		500- 583	499- 603	
			Sample Size	0	21	4	0
	7/29-31,8/6 (7/27-9/24)	M	Mean Length	511	569	588	
			Std. Error	-	2	10	
			Range	511- 511	506- 668	530- 677	
			Sample Size	1	136	16	0
		F	Mean Length	523	534	549	
			Std. Error	6	5	4	
			Range	517- 529	489- 593	542- 553	
			Sample Size	2	24	3	0
	Season	M	Mean Length	548	579	598	609
			Range	511- 554	501- 685	524- 696	577- 657
			Sample Size	2	636	204	12
		F	Mean Length	523	551	560	555
			Range	517- 529	489- 625	499- 629	538- 608
			Sample Size	2	105	36	2

Appendix C.6. Mean length (mm) of chum salmon at the Kogrukluk River weir based on escapement samples collected with a fish trap. [a] (page 26 of 34)

Year	Sample Dates (Stratum Dates)	Sex		Age Class 0.2	0.3	0.4	0.5
2003	6/30-7/4 (6/21-7/5)	M	Mean Length	560	572	593	607
			Std. Error	-	3	2	11
			Range	560- 560	512- 663	534- 639	585- 641
			Sample Size	1	63	90	5
		F	Mean Length		561	568	
			Std. Error		9	9	
			Range		504- 606	515- 612	
			Sample Size	0	11	11	0
	7/7-8 (7/6-13)	M	Mean Length	547	567	593	
			Std. Error	2	3	3	
			Range	545- 552	502- 639	530- 657	
			Sample Size	3	79	66	0
		F	Mean Length		562	560	
			Std. Error		9	5	
			Range		484- 590	545- 585	
			Sample Size	0	12	8	0
	7/15-16 (7/14-19)	M	Mean Length	556	575	599	617
			Std. Error	-	3	4	6
			Range	556- 556	495- 670	520- 657	611- 622
			Sample Size	1	89	64	2
		F	Mean Length	529	553		
			Std. Error	3	9		
			Range	526- 532	510- 600		
			Sample Size	2	10	0	0
	7/21-25 (7/20-28)	M	Mean Length	521	568	588	
			Std. Error	9	3	5	
			Range	502- 543	507- 685	526- 631	
			Sample Size	4	132	32	0
		F	Mean Length		544	579	
			Std. Error		9	17	
			Range		501- 587	562- 595	
			Sample Size	0	10	2	0
	7/31-8/1 (7/29-8/4)	M	Mean Length		555	576	
			Std. Error		2	4	
			Range		493- 617	525- 616	
			Sample Size	0	134	33	0
		F	Mean Length	489	533	560	
			Std. Error	-	6	17	
			Range	489- 489	491- 591	534- 591	
			Sample Size	1	19	3	0

Appendix C.6. Mean length (mm) of chum salmon at the Kogrukluk River weir based on escapement samples collected with a fish trap. [a] (page 27 of 34)

Year	Sample Dates (Stratum Dates)	Sex		Age Class 0.2	0.3	0.4	0.5
	8/2,5-7 (8/5-9/20)	M	Mean Length	534	548	576	
			Std. Error	1	3	12	
			Range	531- 537	482- 626	536- 663	
			Sample Size	4	102	9	0
		F	Mean Length	529	543	512	
			Std. Error	-	3	-	
			Range	529- 529	531- 558	512- 512	
			Sample Size	1	10	1	0
	Season	M	Mean Length	534	567	593	613
			Range	502- 560	482- 685	520- 663	585- 641
			Sample Size	13	599	294	7
		F	Mean Length	524	550	564	
			Range	489- 532	484- 606	512- 612	
			Sample Size	4	72	25	0
2004	6/27,30-7/2 (6/21-7/5)	M	Mean Length	583	566	582	578
			Std. Error	-	4	3	15
			Range	583- 583	514- 651	525- 653	563- 593
			Sample Size	1	56	73	2
		F	Mean Length		543	553	585
			Std. Error		10	4	-
			Range		513- 568	535- 570	585- 585
			Sample Size	0	6	8	1
	7/6-8 (7/6-10)	M	Mean Length	530	562	582	
			Std. Error	-	3	3	
			Range	530- 530	490- 620	518- 644	
			Sample Size	2	89	59	0
		F	Mean Length	493	553	577	
			Std. Error	-	7	9	
			Range	493- 493	515- 593	552- 616	
			Sample Size	1	14	7	0
	7/12-16 (7/11-17)	M	Mean Length	553	575	592	
			Std. Error	11	3	4	
			Range	520- 633	500- 664	535- 652	
			Sample Size	9	105	44	0
		F	Mean Length	528	565	562	
			Std. Error	-	6	10	
			Range	528- 528	535- 612	537- 585	
			Sample Size	1	13	5	0

Appendix C.6. Mean length (mm) of chum salmon at the Kogrukluk River weir based on escapement samples collected with a fish trap. [a] (page 28 of 34)

Year	Sample Dates (Stratum Dates)	Sex		Age Class 0.2	0.3	0.4	0.5
	7/19-20 (7/18-24)	M	Mean Length	536	563	580	578
			Std. Error	5	3	4	-
			Range	510- 557	474- 622	530- 624	578- 578
			Sample Size	13	104	37	1
		F	Mean Length	508	552	540	
			Std. Error	10	9	8	
			Range	478- 522	492- 588	528- 554	
			Sample Size	4	10	3	0
	7/27-28 (7/25-31)	M	Mean Length	537	565	576	
			Std. Error	4	2	5	
			Range	495- 600	500- 623	518- 623	
			Sample Size	36	112	27	0
		F	Mean Length		530		
			Std. Error		10		
			Range		510- 541		
			Sample Size	0	3	0	0
	8/2-6,12-14 (8/1-9/25)	M	Mean Length	530	563	580	
			Std. Error	3	3	6	
			Range	479- 586	468- 622	538- 617	
			Sample Size	60	94	19	0
		F	Mean Length		548	544	
			Std. Error		7	-	
			Range		518- 599	544- 544	
			Sample Size	0	13	1	0
	Season	M	Mean Length	536	566	582	578
			Range	479- 633	468- 664	518- 653	563- 593
			Sample Size	121	560	259	3
		F	Mean Length	508	552	560	585
			Range	478- 528	492- 612	528- 616	585- 585
			Sample Size	6	59	24	1
2005	6/28-7/1 (6/22-7/3)	M	Mean Length		573	604	
			Std. Error		3	7	
			Range		511- 639	540- 658	
			Sample Size	0	82	18	0
		F	Mean Length		546	557	
			Std. Error		4	9	
			Range		506- 585	505- 583	
			Sample Size	0	32	9	0

Appendix C.6. Mean length (mm) of chum salmon at the Kogrukluk River weir based on escapement samples collected with a fish trap. [a] (page 29 of 34)

Year	Sample Dates (Stratum Dates)	Sex		Age Class 0.2	0.3	0.4	0.5
	7/4-7 (7/4-9)	M	Mean Length		571	584	
			Std. Error		3	10	
			Range		502- 668	497- 648	
			Sample Size	0	95	17	0
		F	Mean Length		541	576	
			Std. Error		3	15	
			Range		448- 592	546- 645	
			Sample Size	0	76	6	0
	7/11-13 (7/10-15)	M	Mean Length		565	568	
			Std. Error		4	13	
			Range		505- 648	542- 603	
			Sample Size	0	72	4	0
		F	Mean Length	493	535	574	
			Std. Error	10	3	7	
			Range	425- 545	453- 603	557- 589	
			Sample Size	10	83	4	0
	7/18-20 (7/16-21)	M	Mean Length	543	558	567	
			Std. Error	-	3	7	
			Range	543- 543	497- 633	549- 590	
			Sample Size	1	97	6	0
		F	Mean Length	497	533	567	
			Std. Error	8	3	7	
			Range	471- 513	488- 598	540- 579	
			Sample Size	5	65	5	0
	7/25,27-28 (7/22-29)	M	Mean Length	564	555	567	
			Std. Error	-	3	17	
			Range	564- 564	472- 635	502- 623	
			Sample Size	1	90	6	0
		F	Mean Length	498	528	505	
			Std. Error	11	4	-	
			Range	460- 525	447- 627	505- 505	
			Sample Size	5	65	1	0
	8/1-3 (7/30-8/6)	M	Mean Length	489	540	580	
			Std. Error	16	3	35	
			Range	466- 520	459- 622	545- 615	
			Sample Size	3	86	2	0
		F	Mean Length	479	504		
			Std. Error	6	8		
			Range	445- 504	5- 587		
			Sample Size	11	67	0	0

Appendix C.6. Mean length (mm) of chum salmon at the Kogrukluk River weir based on escapement samples collected with a fish trap. [a] (page 30 of 34)

Year	Sample Dates (Stratum Dates)	Sex		Age Class 0.2	0.3	0.4	0.5
	8/9-11 (8/7-9/23)	M	Mean Length	515	533	550	
			Std. Error	11	3	38	
			Range	500- 536	462- 627	512- 587	
			Sample Size	3	85	2	0
		F	Mean Length	487	511	462	
			Std. Error	5	3	-	
			Range	462- 507	436- 586	462- 462	
			Sample Size	9	74	1	0
	Season	M	Mean Length	529	557	573	
			Range	466- 564	459- 668	497- 658	
			Sample Size	8	607	55	0
			Mean Length	492	530	563	
		F	Range	425- 545	500- 627	462- 645	
			Sample Size	40	462	26	0
2006	6/29-7/1 (6/28-7/2)	M	Mean Length		561	569	
			Std. Error		5	3	
			Range		514- 604	479- 635	
			Sample Size	0	28	87	0
		F	Mean Length		535	544	555
			Std. Error		4	4	-
			Range		487- 569	500- 621	555- 555
			Sample Size	0	26	39	1
	7/3-5 7/3-7	M	Mean Length		564	574	597
			Std. Error		4	4	-
			Range		513- 620	514- 665	597- 597
			Sample Size	0	39	73	1
		F	Mean Length	544	539	547	
			Std. Error	-	4	3	
			Range	544- 544	488- 625	516- 584	
			Sample Size	1	43	29	0
	7/10-12 (7/8-14)	M	Mean Length	501	557	579	
			Std. Error	-	4	5	
			Range	501- 501	485- 638	522- 638	
			Sample Size	1	57	39	0
		F	Mean Length		536	554	
			Std. Error		3	5	
			Range		471- 587	495- 600	
			Sample Size	0	49	23	0

Appendix C.6. Mean length (mm) of chum salmon at the Kogrukluk River weir based on escapement samples collected with a fish trap. [a] (page 31 of 34)

Year	Sample Dates (Stratum Dates)	Sex		Age Class 0.2	0.3	0.4	0.5
	7/17-19 (7/15-22)	M	Mean Length		548	569	573
			Std. Error		4	5	-
			Range		472- 631	499- 647	573- 573
			Sample Size	0	66	48	1
		F	Mean Length	476	535	543	
			Std. Error	-	4	5	
			Range	476- 476	466- 585	501- 565	
			Sample Size	1	48	15	0
	7/25-27 (7/23-28)	M	Mean Length		551	568	
			Std. Error		3	6	
			Range		498- 651	498- 635	
			Sample Size	0	107	39	0
		F	Mean Length	510	527	565	
			Std. Error	8	5	19	
			Range	482- 532	467- 584	527- 617	
			Sample Size	6	34	4	0
	7/31-8/1 (7/29-8/4)	M	Mean Length	489	550	571	
			Std. Error	16	4	8	
			Range	456- 505	468- 637	448- 655	
			Sample Size	3	69	27	0
		F	Mean Length	503	524	535	
			Std. Error	9	4	6	
			Range	485- 527	452- 595	502- 563	
			Sample Size	4	68	13	0
	8/8-11 (8/5-9/14)	M	Mean Length	506	542	549	
			Std. Error	15	4	6	
			Range	486- 535	482- 621	511- 600	
			Sample Size	3	69	19	0
		F	Mean Length	501	519	531	
			Std. Error	10	4	8	
			Range	445- 542	452- 595	490- 593	
			Sample Size	9	73	13	0
	Season	M	Mean Length	498	552	572	582
			Range	456- 535	468- 651	448- 665	573- 597
			Sample Size	7	435	332	2
		F	Mean Length	505	532	547	555
			Range	445- 544	452- 625	490- 621	555- 555
			Sample Size	21	341	136	1

Appendix C.6. Mean length (mm) of chum salmon at the Kogrukluk River weir based on escapement samples collected with a fish trap. [a] (page 32 of 34)

Year	Sample Dates (Stratum Dates)	Sex		Age Class 0.2	0.3	0.4	0.5
2007	7/2-6 (6/26-7/7)	M	Mean Length		566	583	592
			Std. Error		5	3	7
			Range		492- 657	510- 654	534- 632
			Sample Size	0	50	67	14
		F	Mean Length	512	536	549	569
			Std. Error	-	6	5	8
			Range	512- 512	487- 594	494- 606	553- 598
			Sample Size	1	19	31	5
	7/9-10,18-19 (7/8-21)	M	Mean Length		556	571	583
			Std. Error		3	5	12
			Range		493- 617	515- 640	541- 615
			Sample Size	0	65	45	6
		F	Mean Length	501	541	548	571
			Std. Error	7	3	6	-
			Range	488- 522	483- 588	490- 606	571- 571
			Sample Size	5	49	25	1
	7/23-28 (7/22-29)	M	Mean Length		549	570	591
			Std. Error		3	5	3
			Range		492- 613	516- 617	586- 599
			Sample Size	0	75	33	4
		F	Mean Length	519	543	554	
			Std. Error	9	3	6	
			Range	506- 536	500- 586	508- 596	
			Sample Size	3	43	15	0
	7/30-31 (7/30-9/23)	M	Mean Length	515	551	559	
			Std. Error	21	4	9	
			Range	494- 535	494- 608	482- 680	
			Sample Size	2	32	22	0
		F	Mean Length	528	545	542	
			Std. Error	7	7	8	
			Range	521- 543	481- 581	506- 596	
			Sample Size	3	16	9	0
	Season	M	Mean Length	515	553	570	586
			Range	494- 535	492- 657	482- 680	534- 632
			Sample Size	2	222	167	24
		F	Mean Length	511	542	548	570
			Range	488- 543	481- 594	490- 606	553- 598
			Sample Size	12	127	80	6

Appendix C.6. Mean length (mm) of chum salmon at the Kogrukluk River weir based on escapement samples collected with a fish trap. [a] (page 33 of 34)

Year	Sample Dates (Stratum Dates)	Sex		Age Class 0.2	0.3	0.4	0.5
2008	7/6-12 (6/15-7/16)	M	Mean Length		561	579	564
			Std. Error		6	3	11
			Range		515-624	522-680	522-595
			Sample Size	0	24	101	7
		F	Mean Length		546	559	565
			Std. Error		7	4	6
			Range		488-607	500-611	555-588
			Sample Size	0	22	37	5
	7/19-24 (7/17-27)	M	Mean Length	555	558	579	572
			Std. Error	15	4	4	18
			Range	530-583	503-654	529-646	549-607
			Sample Size	3	57	38	3
		F	Mean Length		545	576	635
			Std. Error		5	10	-
			Range		501-632	506-677	635-635
			Sample Size	0	37	24	1
	7/31-8/4 (7/28-9/20)	M	Mean Length	503	554	567	607
			Std. Error	35	3	4	-
			Range	468-537	448-612	510-617	607-607
			Sample Size	2	66	43	1
		F	Mean Length	475	523	546	545
			Std. Error	-	4	8	-
			Range	475-475	459-587	497-595	545-545
			Sample Size	1	39	12	1
	Season	M	Mean Length	536	556	575	574
			Range	468-583	448-654	510-680	522-607
			Sample Size	5	147	182	11
		F	Mean Length	475	536	565	581
			Range	475-475	459-632	497-677	545-635
			Sample Size	1	98	73	7
2009	7/7-18 (6/25-7/20)	M	Mean Length	549	573	586	587
			Std. Error	13	2	4	10
			Range	502- 575	510- 647	504- 657	567- 616
			Sample Size	6	136	63	4
		F	Mean Length	542	550	556	538
			Std. Error	9	2	5	8
			Range	521- 571	494- 618	502- 605	530- 545
			Sample Size	6	122	33	2

Appendix C.6. Mean length (mm) of chum salmon at the Kogrukluk River weir based on escapement samples collected with a fish trap. [a] (page 34 of 34)

Year	Sample Dates (Stratum Dates)	Sex		Age Class 0.2	0.3	0.4	0.5
	7/22-25 (7/21-28)	M	Mean Length	512	574	580	
			Std. Error	.	3	5	
			Range	512- 512	504- 655	523- 649	
			Sample Size	1	87	28	0
		F	Mean Length	575	543	559	
			Std. Error	-	3	5	
			Range	575- 575	482- 597	515- 591	
			Sample Size	1	68	18	0
	8/4,7-9 (7/29-9/27)	M	Mean Length	560	569	578	591
			Std. Error	10	3	4	.
			Range	545- 579	504- 646	543- 620	591- 591
			Sample Size	3	89	28	1
		F	Mean Length	512	534	559	575
			Std. Error	15	3	9	-
			Range	471- 557	456- 609	497- 606	575- 575
			Sample Size	5	93	11	1
	Season	M	Mean Length	548	572	582	588
			Range	502- 579	504- 655	504- 657	567- 616
			Sample Size	10	312	119	5
		F	Mean Length	530	542	558	554
			Range	471- 575	456- 618	497- 606	530- 575
			Sample Size	12	283	62	3
	Grand Total [g]	M	Mean Length	548	577	598	605
			Range	456- 654	459- 692	448- 658	470- 654
			Sample size	227	7,717	4,505	142
		F	Mean Length	525	556	574	572
			Range	425- 654	452- 654	462- 654	470- 654
			Sample size	125	2,796	1,365	48

a "Season" mean lengths are weighted by the escapement passage in each stratum.

b Kogrukluk River escapement was monitored with a counting tower; samples were collected with a beach seine.

c Measurements are not comparable with other years; a different type of length measurement is suspected.

d The weir washed out in 1983, 1987, 1989, and 1998; these years are excluded from the "Grand Total".

e All 1990 Kogrukluk chinook salmon scales need to be re-aged due to potential aging errors.

f Sampling dates do not meet criteria for estimating escapement percentages for some or all of the strata; "Season" is not included in the "Grand Total"

g "Grand Total" mean lengths are simple averages of the "Season" mean lengths.

Appendix C.7. Age and sex of chum salmon at the George River weir based on escapement samples collected with a fish trap. [ab] (page 1 of 7)

Year	Sample Dates (Stratum Dates)	Sample Size	Sex	Age Class 0.2 Esc.	0.2 %	0.3 Esc.	0.3 %	0.4 Esc.	0.4 %	0.5 Esc.	0.5 %	Total Esc.	Total %
1996	6/22-23	47	M	0	0.0	405	10.6	1,295	34.1	243	6.4	1,943	51.1
	(6/21-28)		F	81	2.1	810	21.3	972	25.5	0	0.0	1,863	48.9
			Subtotal	81	2.1	1,215	31.9	2,267	59.6	243	6.4	3,806	100.0
	7/5-6	177	M	0	0.0	1,804	31.1	1,968	33.9	33	0.6	3,804	65.5
	(6/29-7/8)		F	0	0.0	1,115	19.2	886	15.3	0	0.0	2,001	34.5
			Subtotal	0	0.0	2,919	50.3	2,853	49.2	33	0.6	5,805	100.0
	7/11	91	M	50	2.2	700	30.8	375	16.5	25	1.1	1,151	50.5
	(7/9-13)		F	75	3.3	725	31.9	325	14.3	0	0.0	1,125	49.5
			Subtotal	125	5.5	1,426	62.6	700	30.8	25	1.1	2,276	100.0
	7/16-17	203	M	11	0.5	744	33.0	388	17.2	0	0.0	1,143	50.7
	(7/14-18)		F	55	2.5	744	33.0	311	13.8	0	0.0	1,110	49.3
			Subtotal	67	3.0	1,487	66.0	699	31.0	0	0.0	2,253	100.0
	7/20	69	M	0	0.0	645	39.1	143	8.7	0	0.0	789	47.8
	(7/19-22)		F	72	4.3	574	34.8	215	13.0	0	0.0	860	52.2
			Subtotal	72	4.3	1,219	73.9	358	21.7	0	0.0	1,649	100.0
	7/25-26	178	M	0	0.0	2,280	38.7	495	8.4	66	1.1	2,841	48.3
	(7/23-26)		F	0	0.0	2,445	41.6	595	10.1	0	0.0	3,040	51.7
			Subtotal	0	0.0	4,725	80.3	1,090	18.5	66	1.1	5,881	100.0
	Season	765	M	61	0.3	6,578	30.4	4,666	21.5	367	1.7	11,671	53.9
			F	283	1.3	6,412	29.6	3,303	15.2	0	0.0	9,999	46.1
			Total	344	1.6	12,990	59.9	7,969	36.8	367	1.7	21,670	100.0
1997	7/4,7-11	95	M	0	0.0	444	23.1	625	32.6	41	2.1	1,109	57.9
	(6/16-7/12)		F	0	0.0	302	15.8	484	25.3	20	1.1	807	42.1
			Subtotal	0	0.0	746	38.9	1,109	57.9	61	3.2	1,916	100.0
	7/14-18	190	M	0	0.0	380	30.5	387	31.1	13	1.1	780	62.6
	(7/13-19)		F	0	0.0	276	22.1	184	14.7	7	0.5	466	37.4
			Subtotal	0	0.0	656	52.6	571	45.8	20	1.6	1,246	100.0
	7/21-24	163	M	0	0.0	439	28.8	421	27.6	9	0.6	869	57.1
	(7/20-25)		F	0	0.0	346	22.7	308	20.3	0	0.0	654	42.9
			Subtotal	0	0.0	785	51.5	729	47.9	9	0.6	1,523	100.0
	7/27-31	125	M	0	0.0	257	38.4	171	25.6	0	0.0	428	64.0
	(7/26-8/1)		F	11	1.6	171	25.6	54	8.0	5	0.8	241	36.0
			Subtotal	11	1.6	428	64.0	225	33.6	5	0.8	669	100.0
	8/4-6	30	M	0	0.0	76	30.0	42	16.7	0	0.0	118	46.7
	(8/2-7)		F	0	0.0	110	43.3	25	10.0	0	0.0	135	53.3
			Subtotal	0	0.0	186	73.3	67	26.7	0	0.0	253	100.0
	8/10-13	38	M	16	5.3	40	13.1	16	5.3	0	0.0	71	23.7
	(8/8-9/10)		F	16	5.2	197	65.8	16	5.2	0	0.0	229	76.3
			Subtotal	32	10.5	237	78.9	32	10.5	0	0.0	300	100.0
	Season	641	M	16	0.3	1,635	27.7	1,662	28.1	63	1.1	3,376	57.2
			F	26	0.4	1,402	23.7	1,070	18.2	32	0.5	2,531	42.8
			Total	42	0.7	3,037	51.4	2,732	46.3	95	1.6	5,907	100.0

Appendix C.7. Age and sex of chum salmon at the George River weir based on escapement samples collected with a fish trap. [ab] (page 2 of 7)

Year	Sample Dates (Stratum Dates)	Sample Size	Sex	Age Class 0.2 Esc.	0.2 %	0.3 Esc.	0.3 %	0.4 Esc.	0.4 %	0.5 Esc.	0.5 %	Total Esc.	Total %
1998[c]	6/30-7/1	166	M		0.0		47.0		10.9		0.0		57.8
			F		0.0		33.7		8.4		0.0		42.2
			Subtotal		0.0		80.7		19.3		0.0		100.0
	7/5-6	156	M		0.0		57.0		9.6		0.0		66.7
			F		0.0		27.6		5.1		0.6		33.3
			Subtotal		0.0		84.6		14.7		0.6		100.0
1999[d]	(6/24-7/14)	0	M										
			F										
			Subtotal									3,820	
	7/17-19	194	M	0	0.0	815	29.9	815	29.9	0	0.0	1,629	59.8
	(7/15-20)		F	0	0.0	786	28.9	309	11.3	0	0.0	1,096	40.2
			Subtotal	0	0.0	1,601	58.8	1,124	41.2	0	0.0	2,725	100.0
	7/23-24	198	M	0	0.0	932	31.3	511	17.2	30	1.0	1,473	49.5
	(7/21-28)		F	0	0.0	1,022	34.4	481	16.1	0	0.0	1,503	50.5
			Subtotal	0	0.0	1,954	65.7	992	33.3	30	1.0	2,976	100.0
	8/2-3	193	M	0	0.0	494	32.7	227	15.0	8	0.5	730	48.2
	(7/29-8/6)		F	0	0.0	573	37.8	212	14.0	0	0.0	784	51.8
			Subtotal	0	0.0	1,067	70.5	439	29.0	8	0.5	1,514	100.0
	8/9	26	M	0	0.0	150	23.1	150	23.1	0	0.0	299	46.2
	(8/7-9/25)		F	0	0.0	174	26.9	174	26.9	0	0.0	348	53.8
			Subtotal	0	0.0	324	50.0	324	50.0	0	0.0	647	100.0
	Season	611	M										
			F										
			Total									11,682	
2000	7/4-6	67	M	0	0.0	293	23.9	531	43.3	19	1.5	843	68.7
	(6/21-7/7)		F	0	0.0	202	16.4	165	13.4	18	1.5	385	31.3
			Subtotal	0	0.0	495	40.3	696	56.7	37	3.0	1,228	100.0
	7/10-12	57	M	18	1.8	239	22.8	275	26.3	18	1.8	551	52.6
	(7/8-16)		F	0	0.0	238	22.8	257	24.6	0	0.0	495	47.4
			Subtotal	18	1.8	477	45.6	532	50.9	18	1.8	1,046	100.0
	7/21,24-25	86	M	0	0.0	209	24.4	268	31.4	0	0.0	476	55.8
	(7/17-26)		F	0	0.0	218	25.6	159	18.6	0	0.0	377	44.2
			Subtotal	0	0.0	427	50.0	427	50.0	0	0.0	853	100.0
	7/28-30	25	M	15	4.0	72	20.0	14	4.0	0	0.0	102	28.0
	(7/27-9/5)		F	14	4.0	159	44.0	87	24.0	0	0.0	263	72.0
			Subtotal	29	8.0	231	64.0	101	28.0	0	0.0	365	100.0
	Season	235	M	33	1.0	813	23.3	1,089	31.2	37	1.1	1,972	56.5
			F	14	0.4	817	23.4	667	19.2	18	0.5	1,520	43.5
			Total	47	1.4	1,630	46.7	1,756	50.4	55	1.6	3,492	100.0

Appendix C.7. Age and sex of chum salmon at the George River weir based on escapement samples collected with a fish trap. [ab] (page 3 of 7)

Year	Sample Dates (Stratum Dates)	Sample Size	Sex	Age Class 0.2 Esc.	0.2 %	0.3 Esc.	0.3 %	0.4 Esc.	0.4 %	0.5 Esc.	0.5 %	Total Esc.	Total %
2001	6/30-7/1	25	M	0	0.0	164	24.0	302	44.0	0	0.0	466	68.0
	(6/25-7/4)		F	0	0.0	0	0.0	219	32.0	0	0.0	219	32.0
			Subtotal	0	0.0	164	24.0	521	76.0	0	0.0	685	100.0
	7/9-11,13-14	200	M	0	0.0	1,050	24.5	1,242	29.0	0	0.0	2,292	53.5
	(7/5-15)		F	0	0.0	1,028	24.0	964	22.5	0	0.0	1,992	46.5
			Subtotal	0	0.0	2,078	48.5	2,206	51.5	0	0.0	4,284	100.0
	7/17-19	201	M	0	0.0	785	30.8	177	7.0	0	0.0	962	37.8
	(7/16-21)		F	0	0.0	1,202	47.3	380	14.9	0	0.0	1,582	62.2
			Subtotal	0	0.0	1,987	78.1	557	21.9	0	0.0	2,544	100.0
	7/24-25,27	201	M	0	0.0	930	39.8	151	6.5	0	0.0	1,082	46.3
	(7/22-29)		F	0	0.0	1,024	43.8	233	9.9	0	0.0	1,256	53.7
			Subtotal	0	0.0	1,954	83.6	384	16.4	0	0.0	2,338	100.0
	7/31,8/2-3,5,10	155	M	0	0.0	508	29.1	113	6.4	0	0.0	621	35.5
	(7/30-9/22)		F	0	0.0	1,005	57.4	124	7.1	0	0.0	1,129	64.5
			Subtotal	0	0.0	1,513	86.5	237	13.5	0	0.0	1,750	100.0
	Season	782	M	0	0.0	3,437	29.6	1,985	17.1	0	0.0	5,422	46.2
			F	0	0.0	4,259	36.7	1,920	16.6	0	0.0	6,179	53.8
			Total	0	0.0	7,696	66.3	3,905	33.7	0	0.0	11,601	100.0
2002	6/24-27	200	M	0	0.0	210	19.5	447	41.5	16	1.5	673	62.5
	(6/15-29)		F	0	0.0	92	8.5	280	26.0	32	3.0	404	37.5
			Subtotal	0	0.0	302	28.0	727	67.5	48	4.5	1,077	100.0
	7/1,3-6	218	M	17	0.9	455	24.8	555	30.3	17	0.9	1,044	56.9
	(6/30-7/8)		F	0	0.0	370	20.2	421	22.9	0	0.0	791	43.1
			Subtotal	17	0.9	825	45.0	976	53.2	17	0.9	1,835	100.0
	7/10-13	193	M	47	2.6	472	25.9	415	22.8	10	0.5	944	51.8
	(7/9-15)		F	10	0.5	472	25.9	387	21.2	9	0.5	877	48.2
			Subtotal	57	3.1	944	51.8	802	44.0	19	1.0	1,821	100.0
	7/17-19	191	M	90	10.5	175	20.4	130	15.2	4	0.5	399	46.6
	(7/16-21)		F	45	5.2	278	32.5	135	15.7	0	0.0	458	53.4
			Subtotal	135	15.7	453	52.9	265	30.9	4	0.5	857	100.0
	7/24-27	88	M	51	11.4	82	18.2	51	11.4	0	0.0	185	40.9
	(7/22-28)		F	57	12.5	149	32.9	62	13.6	0	0.0	267	59.1
			Subtotal	108	23.9	231	51.1	113	25.0	0	0.0	452	100.0
	7/30-8/2,6-8	65	M	62	12.3	100	20.0	31	6.2	8	1.5	200	40.0
	(7/29-9/30)		F	38	7.7	177	35.4	85	16.9	0	0.0	301	60.0
			Subtotal	100	20.0	277	55.4	116	23.1	8	1.5	501	100.0
	Season	955	M	267	4.1	1,494	22.8	1,630	24.9	54	0.8	3,445	52.7
			F	149	2.3	1,538	23.5	1,369	20.9	42	0.7	3,098	47.3
			Total	416	6.4	3,032	46.3	2,999	45.8	96	1.5	6,543	100.0

Appendix C.7. Age and sex of chum salmon at the George River weir based on escapement samples collected with a fish trap. [ab] (page 4 of 7)

Year	Sample Dates (Stratum Dates)	Sample Size	Sex	Age Class 0.2 Esc.	0.2 %	0.3 Esc.	0.3 %	0.4 Esc.	0.4 %	0.5 Esc.	0.5 %	Total Esc.	Total %
2003	7/11-13	188	M	0	0.0	5,619	50.5	1,006	9.1	59	0.5	6,683	60.1
	(6/15-7/15)		F	0	0.0	3,489	31.4	946	8.5	0	0.0	4,436	39.9
			Subtotal	0	0.0	9,108	81.9	1,952	17.6	59	0.5	11,119	100.0
	7/18-20	189	M	0	0.0	3,527	41.3	226	2.7	45	0.5	3,798	44.4
	(7/16-23)		F	362	4.2	3,889	45.5	497	5.8	0	0.0	4,748	55.6
			Subtotal	362	4.2	7,416	86.8	723	8.5	45	0.5	8,546	100.0
	7/25-26	149	M	0	0.0	2,673	34.9	309	4.1	0	0.0	2,981	38.9
	(7/24-8/1)		F	51	0.7	4,317	56.4	308	4.0	0	0.0	4,677	61.1
			Subtotal	51	0.7	6,990	91.3	617	8.1	0	0.0	7,658	100.0
	8/12-13	71	M	89	1.4	3,305	52.1	89	1.4	0	0.0	3,484	54.9
	(8/2-9/19)		F	0	0.0	2,859	45.1	0	0.0	0	0.0	2,859	45.1
			Subtotal	89	1.4	6,164	97.2	89	1.4	0	0.0	6,343	100.0
	Season	597	M	89	0.3	15,124	44.9	1,629	4.8	104	0.3	16,947	50.3
			F	413	1.2	14,554	43.3	1,752	5.2	0	0.0	16,719	49.7
			Total	502	1.5	29,678	88.2	3,381	10.0	104	0.3	33,666	100.0
2004	6/28-7/2	130	M	0	0.0	471	9.2	2,200	43.1	0	0.0	2,671	52.3
	(6/15-7/4)		F	0	0.0	1,100	21.6	1,336	26.1	0	0.0	2,436	47.7
			Subtotal	0	0.0	1,571	30.8	3,536	69.2	0	0.0	5,107	100.0
	7/6-8	189	M	254	6.9	1,115	30.1	822	22.2	20	0.5	2,211	59.8
	(7/5-11)		F	196	5.3	920	24.9	372	10.1	0	0.0	1,487	40.2
			Subtotal	450	12.2	2,035	55.0	1,194	32.3	20	0.5	3,698	100.0
	7/13-16	201	M	51	2.5	275	13.4	663	32.3	0	0.0	989	48.3
	(7/12-18)		F	31	1.5	408	19.9	622	30.4	0	0.0	1,061	51.7
			Subtotal	82	4.0	683	33.3	1,285	62.7	0	0.0	2,050	100.0
	7/20-24	198	M	156	8.1	273	14.2	555	28.8	0	0.0	984	51.0
	(7/19-26)		F	185	9.6	409	21.2	341	17.7	10	0.5	945	49.0
			Subtotal	341	17.7	682	35.4	896	46.5	10	0.5	1,929	100.0
	7/27-8/1,11-12	205	M	174	10.7	190	11.7	286	17.6	0	0.0	651	40.0
	(7/27-9/24)		F	278	17.1	397	24.4	301	18.5	0	0.0	976	60.0
			Subtotal	452	27.8	587	36.1	587	36.1	0	0.0	1,627	100.0
	Season	923	M	636	4.4	2,325	16.1	4,526	31.4	19	0.1	7,506	52.1
			F	689	4.8	3,234	22.5	2,972	20.6	10	0.1	6,905	47.9
			Total	1,325	9.2	5,559	38.6	7,498	52.0	29	0.2	14,411	100.0
2005	7/1-3,6,8	199	M	23	0.5	2,245	49.2	183	4.0	23	0.5	2,474	54.3
	(6/15-7/9)		F	92	2.0	1,832	40.2	138	3.0	23	0.5	2,084	45.7
			Subtotal	115	2.5	4,077	89.4	321	7.0	46	1.0	4,558	100.0
	7/11-13	195	M	42	1.1	2,280	56.4	124	3.1	21	0.5	2,466	61.0
	(7/10-16)		F	41	1.0	1,533	38.0	0	0.0	0	0.0	1,575	39.0
			Subtotal	83	2.1	3,813	94.4	124	3.1	21	0.5	4,041	100.0

Appendix C.7. Age and sex of chum salmon at the George River weir based on escapement samples collected with a fish trap. [ab] (page 5 of 7)

Year	Sample Dates (Stratum Dates)	Sample Size	Sex	Age Class 0.2 Esc.	0.2 %	0.3 Esc.	0.3 %	0.4 Esc.	0.4 %	0.5 Esc.	0.5 %	Total Esc.	Total %
	7/18-20	186	M	65	2.7	1,263	52.7	103	4.3	0	0.0	1,430	59.7
	(7/17-22)		F	90	3.8	850	35.5	13	0.5	13	0.5	967	40.3
			Subtotal	155	6.5	2,113	88.2	116	4.8	13	0.5	2,397	100.0
	7/25-27	167	M	46	3.0	530	34.1	10	0.6	0	0.0	586	37.7
	(7/23-28)		F	177	11.4	754	48.5	37	2.4	0	0.0	968	62.3
			Subtotal	223	14.4	1,284	82.6	47	3.0	0	0.0	1,554	100.0
	7/29-8/2	179	M	27	1.7	622	39.1	44	2.8	9	0.6	702	44.1
	(7/29-8/12)		F	106	6.7	781	49.2	0	0.0	0	0.0	888	55.9
			Subtotal	133	8.4	1,403	88.3	44	2.8	9	0.6	1,590	100.0
	8/29-9/1,4	59	M	0	0.0	222	32.2	12	1.7	0	0.0	233	33.9
	(8/13-9/20)		F	58	8.5	396	57.6	0	0.0	0	0.0	455	66.1
			Subtotal	58	8.5	618	89.8	12	1.7	0	0.0	688	100.0
	Season	985	M	202	1.4	7,161	48.3	476	3.2	52	0.4	7,891	53.2
			F	565	3.8	6,148	41.5	188	1.3	36	0.2	6,937	46.8
			Total	767	5.2	13,309	89.8	664	4.5	88	0.6	14,828	100.0
2006	6/25-29	177	M	0	0.0	606	12.4	1,957	40.1	0	0.0	2,562	52.5
	(6/15-7/2)		F	0	0.0	909	18.7	1,405	28.8	0	0.0	2,315	47.5
			Subtotal	0	0.0	1,515	31.1	3,362	68.9	0	0.0	4,877	100.0
	7/6-9	183	M	267	2.2	1,999	16.4	2,599	21.3	67	0.5	4,931	40.4
	(7/3-13)		F	133	1.1	4,065	33.3	3,065	25.1	0	0.0	7,264	59.6
			Subtotal	400	3.3	6,064	49.7	5,664	46.4	67	0.5	12,195	100.0
	7/17-18	184	M	0	0.0	3,668	23.9	2,501	16.3	0	0.0	6,169	40.2
	(7/14-23)		F	500	3.3	4,585	29.9	4,085	26.6	0	0.0	9,170	59.8
			Subtotal	500	3.3	8,253	53.8	6,586	42.9	0	0.0	15,339	100.0
	7/28-30	178	M	150	2.8	1,497	28.1	838	15.7	0	0.0	2,485	46.6
	(7/24-31)		F	179	3.4	1,617	30.3	1,048	19.7	0	0.0	2,844	53.4
			Subtotal	329	6.2	3,114	58.4	1,886	35.4	0	0.0	5,329	100.0
	8/4-5	180	M	79	2.8	682	23.9	460	16.1	0	0.0	1,221	42.8
	(8/1-10)		F	127	4.4	951	33.3	555	19.5	0	0.0	1,633	57.2
			Subtotal	206	7.2	1,633	57.2	1,015	35.6	0	0.0	2,854	100.0
	8/15-17	32	M	0	0.0	136	15.7	137	15.6	0	0.0	273	31.3
	(8/11-9/20)		F	27	3.1	355	40.6	218	25.0	0	0.0	600	68.7
			Subtotal	27	3.1	491	56.3	355	40.6	0	0.0	873	100.0
	Season	934	M	496	1.2	8,588	20.7	8,491	20.5	67	0.2	17,641	42.5
			F	967	2.3	12,482	30.1	10,376	25.0	0	0.0	23,826	57.5
			Total	1,463	3.5	21,070	50.8	18,867	45.5	67	0.2	41,467	100.0

Appendix C.7. Age and sex of chum salmon at the George River weir based on escapement samples collected with a fish trap. [ab] (page 6 of 7)

Year	Sample Dates (Stratum Dates)	Sample Size	Sex	Age Class 0.2 Esc.	0.2 %	0.3 Esc.	0.3 %	0.4 Esc.	0.4 %	0.5 Esc.	0.5 %	Total Esc.	Total %
2007	6/28-30	177	M	35	1.1	1,340	42.9	458	14.7	71	2.3	1,904	61.0
	(6/15-7/4)		F	0	0.0	1,057	33.9	124	3.9	35	1.1	1,216	39.0
			Subtotal	35	1.1	2,397	76.8	582	18.6	106	3.4	3,120	100.0
	7/8-9	183	M	0	0.0	6,736	55.2	1,134	9.3	67	0.5	7,936	65.0
	(7/5-12)		F	0	0.0	3,601	29.5	667	5.5	0	0.0	4,268	35.0
			Subtotal	0	0.0	10,337	84.7	1,801	14.8	67	0.5	12,204	100.0
		0	M										
	(7/13-24)		F										
			Subtotal									22,237	
	7/26-27	163	M	64	0.6	3,206	30.7	641	6.1	128	1.2	4,039	38.7
	(7/25-30)		F	128	1.2	4,873	46.6	1,347	12.9	64	0.6	6,412	61.3
			Subtotal	192	1.8	8,079	77.3	1,988	19.0	192	1.8	10,451	100.0
	8/4-5	182	M	172	2.2	2,925	37.4	258	3.3	86	1.1	3,442	44.0
	(7/31-9/20)		F	344	4.4	3,485	44.5	473	6.0	86	1.1	4,388	56.0
			Subtotal	516	6.6	6,410	81.9	731	9.3	172	2.2	7,830	100.0
	Season [d]	705	M										
			F										
			Total									55,842	
2008	7/8-11	192	M	0	0.0	452	3.1	7,613	52.6	226	1.6	8,291	57.3
	(6/15-7/15)		F	75	0.5	528	3.7	5,352	37.0	226	1.5	6,181	42.7
			Subtotal[a]	75	0.5	980	6.8	12,965	89.6	452	3.1	14,472	100.0
	7/18-20,22	196	M	0	0.0	1,158	12.3	3,571	37.8	290	3.1	5,019	53.1
	(7/16-25)		F	0	0.0	1,448	15.3	2,944	31.1	48	0.5	4,440	46.9
			Subtotal[a]	0	0.0	2,606	27.6	6,515	68.9	338	3.6	9,459	100.0
	7/28-30	196	M	22	0.5	263	6.1	1,160	27.0	44	1.0	1,488	34.7
	(7/26-8/2)		F	22	0.5	788	18.4	1,926	44.9	65	1.6	2,802	65.3
			Subtotal[a]	44	1.0	1,051	24.5	3,086	71.9	109	2.6	4,290	100.0
	8/7-9	203	M	17	1.0	190	10.8	442	25.1	26	1.5	675	38.4
	(8/3-9/20)		F	52	2.9	381	21.7	623	35.5	26	1.5	1,082	61.6
			Subtotal[a]	69	3.9	571	32.5	1,065	60.6	52	3.0	1,757	100.0
	Season[b]	787	M	39	0.1	2,064	6.9	12,785	42.6	585	2.0	15,474	51.6
			F	149	0.5	3,144	10.5	10,845	36.2	366	1.2	14,504	48.4
			Total	188	0.6	5,208	17.4	23,630	78.8	951	3.2	29,978	100.0

Appendix C.7. Age and sex of chum salmon at the George River weir based on escapement samples collected with a fish trap. [ab] (page 7 of 7)

Year	Sample Dates (Stratum Dates)	Sample Size	Sex	Age Class 0.2 Esc.	0.2 %	0.3 Esc.	0.3 %	0.4 Esc.	0.4 %	0.5 Esc.	0.5 %	Total Esc.	Total %
2009	7/4,6,10	63	M	88	3.2	484	17.4	660	23.8	220	7.9	1,452	52.4
	(6/15-7/12)		F	44	1.6	748	27.0	484	17.5	44	1.6	1,320	47.6
			Subtotal	132	4.8	1,232	44.4	1,144	41.3	264	9.5	2,772	100.0
	7/13-15,17,20	115	M	163	7.0	507	21.8	365	15.6	122	5.2	1,156	49.6
	(7/13-20)		F	162	6.9	710	30.4	284	12.2	20	0.9	1,177	50.4
			Subtotal	325	13.9	1,217	52.2	649	27.8	142	6.1	2,333	100.0
	7/21-28	332	M	122	6.3	609	31.6	215	11.1	29	1.5	974	50.6
	(7/21-30)		F	151	7.9	539	28.0	226	11.8	35	1.8	951	49.4
			Subtotal	273	14.2	1,148	59.6	441	22.9	64	3.3	1,925	100.0
	8/1-16	180	M	50	5.6	228	25.0	96	10.6	15	1.7	390	42.8
	(7/31-9/20)		F	66	7.2	359	39.4	96	10.5	0	0.0	521	57.2
			Subtotal	116	12.8	587	64.4	192	21.1	15	1.7	911	100.0
	Season	690	M	423	5.3	1,828	23.0	1,336	16.8	386	4.9	3,972	50.0
			F	423	5.3	2,356	29.7	1,090	13.8	99	1.2	3,969	50.0
			Total	846	10.6	4,184	52.7	2,426	30.6	485	6.1	7,941	100.0
	Grand Total [e]	8,294	M	2,262	1.2	51,047	26.7	40,275	21.0	1,734	0.9	95,317	49.8
			F	3,678	1.9	56,346	29.4	35,552	18.6	603	0.3	96,187	50.2
			Total	5,940	3.1	107,393	56.1	75,827	39.6	2,337	1.2	191,504	100.0

[a] The number of fish in each stratum age and sex category are derived from the sample percentages; discrepancies in sums are attributed to rounding errors.

[b] The number of fish in "Season" summaries are the strata sums; "Season" percentages are derived from the sums.

[c] The weir washed out in 1998; this year is excluded from the "Grand Total".

[d] Sampling dates do not meet criteria for estimating escapement percentages for some or all of the strata; "Season" is not included in the "Grand Total".

[e] The number of fish in the "Grand Total" is the sum of the "Season" totals.

Appendix C.8. Mean length (mm) of chum salmon at the George River weir based on escapement samples collected with a fish trap. [a] (page 1 of 16)

Year	Sample Dates (Stratum Dates)	Sex		Age Class 0.2	0.3	0.4	0.5
1996	6/22-23 (6/21-28)	M	Mean Length		616	625	644
			Std. Error		26	6	37
			Range		553- 702	589- 675	573- 698
			Sample Size	0	5	16	3
		F	Mean Length	598	556	590	
			Std. Error	-	6	8	
			Range	598- 598	516- 589	544- 623	
			Sample Size	1	10	12	0
	7/5-6 (6/29-7/8)	M	Mean Length		601	616	613
			Std. Error		5	5	-
			Range		509- 703	526- 689	613- 613
			Sample Size	0	55	60	1
		F	Mean Length		553	562	
			Std. Error		5	8	
			Range		494- 619	459- 657	
			Sample Size	0	34	27	0
	7/11 (7/9-13)	M	Mean Length	595	608	609	577
			Std. Error	6	8	8	-
			Range	589- 601	521- 702	548- 656	577- 577
			Sample Size	2	28	15	1
		F	Mean Length	561	558	551	
			Std. Error	19	7	14	
			Range	537- 598	498- 639	443- 624	
			Sample Size	3	29	13	0
	7/16-17 (7/14-18)	M	Mean Length	580	596	611	
			Std. Error	-	5	6	
			Range	580- 580	442- 689	522- 679	
			Sample Size	1	67	35	0
		F	Mean Length	550	563	578	
			Std. Error	15	4	6	
			Range	500- 576	474- 635	499- 640	
			Sample Size	5	67	28	0
	7/20 (7/19-22)	M	Mean Length		590	595	
			Std. Error		6	21	
			Range		548- 653	548- 689	
			Sample Size	0	27	6	0
		F	Mean Length	525	552	551	
			Std. Error	21	8	7	
			Range	496- 565	460- 618	523- 597	
			Sample Size	3	24	9	0

Appendix C.8. Mean length (mm) of chum salmon at the George River weir based on escapement samples collected with a fish trap. [a] (page 2 of 16)

Year	Sample Dates (Stratum Dates)	Sex		Age Class 0.2	0.3	0.4	0.5
	7/25-26 (7/23-26)	M	Mean Length		585	589	583
			Std. Error		4	10	41
			Range		522- 651	523- 678	542- 623
			Sample Size	0	69	15	2
		F	Mean Length		545	561	
			Std. Error		4	8	
			Range		483- 614	506- 641	
			Sample Size	0	74	18	0
	Season	M	Mean Length	592	595	614	626
			Range	580- 601	509- 703	522- 689	542- 698
			Sample size	3	251	147	7
		F	Mean Length	560	552	570	
			Range	496- 614	460- 639	443- 657	
			Sample size	12	238	107	0
1997	7/4,7-11 (6/16-7/12)	M	Mean Length		572	608	635
			Std. Error		9	7	14
			Range		465- 628	526- 678	620- 649
			Sample Size	0	21	30	2
		F	Mean Length		552	564	570
			Std. Error		7	6	-
			Range		505- 599	500- 625	570- 570
			Sample Size	0	15	24	1
	7/14-18 (7/13-19)	M	Mean Length		562	588	617
			Std. Error		4	4	22
			Range		508- 632	530- 667	595- 639
			Sample Size	0	58	59	2
		F	Mean Length		536	541	605
			Std. Error		4	5	-
			Range		458- 615	483- 602	605- 605
			Sample Size	0	42	28	1
	7/21-24 (7/20-25)	M	Mean Length		556	579	564
			Std. Error		4	6	-
			Range		515- 629	501- 667	564- 564
			Sample Size	0	47	45	1
		F	Mean Length		536	565	
			Std. Error		4	5	
			Range		479- 580	514- 619	
			Sample Size	0	37	33	0

Appendix C.8. Mean length (mm) of chum salmon at the George River weir based on escapement samples collected with a fish trap. [a] (page 3 of 16)

Year	Sample Dates (Stratum Dates)	Sex		Age Class 0.2	0.3	0.4	0.5
	7/27-31 (7/26-8/1)	M	Mean Length		559	570	
			Std. Error		4	6	
			Range		500- 640	519- 641	
			Sample Size	0	48	32	0
		F	Mean Length	506	535	547	563
			Std. Error	4	5	11	-
			Range	502- 509	477- 587	494- 595	563- 563
			Sample Size	2	32	10	1
	8/4-6 (8/2-7)	M	Mean Length		549	581	
			Std. Error		8	14	
			Range		521- 592	538- 613	
			Sample Size	0	9	5	0
		F	Mean Length		519	527	
			Std. Error		8	8	
			Range		478- 579	514- 540	
			Sample Size	0	13	3	0
	8/10-13 (8/8-9/10)	M	Mean Length	514	540	595	
			Std. Error	43	12	13	
			Range	471- 557	508- 578	582- 607	
			Sample Size	2	5	2	0
		F	Mean Length	503	516	514	
			Std. Error	22	8	8	
			Range	481- 524	372- 576	506- 522	
			Sample Size	2	25	2	0
	Season	M	Mean Length	514	561	591	621
			Range	471- 557	465- 640	501- 678	564- 649
			Sample Size	2	188	173	5
		F	Mean Length	504	535	558	576
			Range	481- 524	372- 615	483- 625	563- 605
			Sample Size	4	164	100	3
1998[c]	6/30-7/1	M	Mean Length		581	607	
			Std. Error		3	9	
			Range		511- 643	540- 706	
			Sample Size	0	78	18	0
		F	Mean Length		555	564	
			Std. Error		3	8	
			Range		508- 608	503- 624	
			Sample Size	0	56	14	0

Appendix C.8. Mean length (mm) of chum salmon at the George River weir based on escapement samples collected with a fish trap. [a] (page 4 of 16)

Year	Sample Dates (Stratum Dates)	Sex		Age Class 0.2	0.3	0.4	0.5
	7/5-6	M	Mean Length		587	616	
			Std. Error		3	7	
			Range		513- 669	555- 654	
			Sample Size	0	89	15	0
		F	Mean Length		557	573	560
			Std. Error		4	11	-
			Range		510- 614	515- 620	560- 560
			Sample Size	0	43	8	1
1999 [c]	7/17-19 (7/15-20)	M	Mean Length		573	593	
			Std. Error		3	4	
			Range		510- 630	525- 660	
			Sample Size	0	58	58	0
		F	Mean Length		547	559	
			Std. Error		3	6	
			Range		495- 600	515- 595	
			Sample Size	0	56	22	0
	7/23-24 (7/21-28)	M	Mean Length		580	596	590
			Std. Error		4	5	10
			Range		500- 650	525- 655	580- 600
			Sample Size	0	62	34	2
		F	Mean Length		552	563	
			Std. Error		3	6	
			Range		480- 605	495- 665	
			Sample Size	0	68	32	0
	8/2-3 (7/29-8/6)	M	Mean Length		572	575	575
			Std. Error		3	6	-
			Range		505- 650	505- 630	575- 575
			Sample Size	0	63	29	1
		F	Mean Length		536	553	
			Std. Error		3	6	
			Range		480- 595	490- 605	
			Sample Size	0	73	27	0
	8/9 (8/7-9/25)	M	Mean Length		554	581	
			Std. Error		17	13	
			Range		485- 600	540- 625	
			Sample Size	0	6	6	0
		F	Mean Length		539	507	
			Std. Error		10	7	
			Range		500- 570	480- 530	
			Sample Size	0	7	7	0

Appendix C.8. Mean length (mm) of chum salmon at the George River weir based on escapement samples collected with a fish trap. [a] (page 5 of 16)

Year	Sample Dates (Stratum Dates)	Sex		Age Class 0.2	0.3	0.4	0.5
2000	7/4,6 (6/21-7/7)	M	Mean Length		579	608	605
			Std. Error		5	6	-
			Range		545- 610	545- 660	605- 605
			Sample Size	0	16	29	1
		F	Mean Length		576	587	580
			Std. Error		11	11	-
			Range		520- 665	555- 635	580- 580
			Sample Size	0	11	9	1
	7/10,12 (7/8-16)	M	Mean Length	570	576	604	520
			Std. Error	-	5	6	-
			Range	570- 570	545- 610	565- 645	520- 520
			Sample Size	1	13	15	1
		F	Mean Length		552	572	
			Std. Error		7	5	
			Range		490- 580	545- 600	
			Sample Size	0	13	14	0
	7/21,24-25 (7/17-26)	M	Mean Length		575	600	
			Std. Error		6	8	
			Range		520- 640	520- 675	
			Sample Size	0	21	27	0
		F	Mean Length		555	561	
			Std. Error		6	6	
			Range		495- 615	500- 585	
			Sample Size	0	22	16	0
	7/28 (7/27-9/5)	M	Mean Length	570	598	575	
			Std. Error	-	20	-	
			Range	570- 570	540- 645	575- 575	
			Sample Size	1	5	1	0
		F	Mean Length	555	546	565	
			Std. Error	-	7	12	
			Range	555- 555	510- 575	530- 610	
			Sample Size	1	11	6	0
	Season	M	Mean Length	570	579	605	562
			Range	570- 570	520- 645	520- 675	520- 605
			Sample Size	2	55	72	2
		F	Mean Length	555	558	572	580
			Range	555- 555	490- 665	500- 635	580- 580
			Sample Size	1	57	45	1

Appendix C.8. Mean length (mm) of chum salmon at the George River weir based on escapement samples collected with a fish trap. [a] (page 6 of 16)

Year	Sample Dates (Stratum Dates)	Sex		Age Class 0.2	0.3	0.4	0.5
2001	6/30-7/1 (6/25-7/4)	M	Mean Length		566	590	
			Std. Error		15	10	
			Range		08- 600	555- 658	
			Sample Size	0	6	11	0
		F	Mean Length			549	
			Std. Error			12	
			Range			494- 602	
			Sample Size	0	0	8	0
	7/9-11,13-14 (7/5-15)	M	Mean Length		573	592	
			Std. Error		4	4	
			Range		21- 645	518- 681	
			Sample Size	0	49	58	0
		F	Mean Length		543	556	
			Std. Error		5	4	
			Range		61- 606	491- 631	
			Sample Size	0	48	45	0
	7/17-19 (7/16-21)	M	Mean Length		568	582	
			Std. Error		4	7	
			Range		91- 678	523- 623	
			Sample Size	0	62	14	0
		F	Mean Length		545	564	
			Std. Error		4	6	
			Range		20- 670	493- 625	
			Sample Size	0	95	30	0
	7/24-25,27 (7/22-29)	M	Mean Length		556	578	
			Std. Error		3	11	
			Range		97- 621	518- 657	
			Sample Size	0	80	13	0
		F	Mean Length		527	546	
			Std. Error		3	7	
			Range		22- 582	487- 618	
			Sample Size	0	88	20	0
	7/31,8/2-3,5,10 (7/30-9/22)	M	Mean Length		565	571	
			Std. Error		5	9	
			Range		55- 635	523- 635	
			Sample Size	0	45	10	0
		F	Mean Length		535	541	
			Std. Error		3	12	
			Range		70- 597	494- 640	
			Sample Size	0	89	11	0

Appendix C.8. Mean length (mm) of chum salmon at the George River weir based on escapement samples collected with a fish trap. [a] (page 7 of 16)

Year	Sample Dates (Stratum Dates)	Sex		Age Class 0.2	0.3	0.4	0.5
	Season	M	Mean Length		566	588	
			Range		55- 678	518- 681	
			Sample Size	0	242	106	0
		F	Mean Length		538	555	
			Range		20- 670	487- 640	
			Sample Size	0	320	114	0
2002	6/24-27 (6/15-29)	M	Mean Length		592	603	639
			Std. Error		5	3	15
			Range		528- 639	518- 682	616- 667
			Sample Size	0	39	83	3
		F	Mean Length		555	586	586
			Std. Error		9	3	14
			Range		444- 607	547- 650	551- 645
			Sample Size	0	17	52	6
	7/1,3-6 (6/30 - 7/8)	M	Mean Length	516	594	606	626
			Std. Error	19	4	4	1
			Range	497- 535	544- 679	553- 681	625- 627
			Sample Size	2	54	66	2
		F	Mean Length		560	578	
			Std. Error		4	3	
			Range		489- 613	533- 649	
			Sample Size	0	44	50	0
	7/10-13 (7/9-15)	M	Mean Length	548	579	600	578
			Std. Error	10	4	5	-
			Range	515- 575	519- 655	528- 665	578- 578
			Sample Size	5	50	44	1
		F	Mean Length	484	545	563	548
			Std. Error	-	4	5	-
			Range	484- 484	474- 601	465- 623	548- 548
			Sample Size	1	50	41	1
	7/17-19 (7/16-21)	M	Mean Length	534	573	592	562
			Std. Error	7	6	7	-
			Range	436- 577	474- 677	507- 658	562- 562
			Sample Size	20	39	29	1
		F	Mean Length	511	537	562	
			Std. Error	9	4	5	
			Range	476- 557	435- 612	503- 631	
			Sample Size	10	62	30	0

Appendix C.8. Mean length (mm) of chum salmon at the George River weir based on escapement samples collected with a fish trap. [a] (page 8 of 16)

Year	Sample Dates (Stratum Dates)	Sex		Age Class 0.2	0.3	0.4	0.5
	7/24-27 (7/22-28)	M	Mean Length	538	575	597	
			Std. Error	7	6	12	
			Range	506- 575	518- 625	522- 648	
			Sample Size	10	16	10	0
		F	Mean Length	510	532	535	
			Std. Error	8	6	9	
			Range	459- 541	480- 602	490- 592	
			Sample Size	11	29	12	0
	7/30-8/2,6-8 (7/29-9/30)	M	Mean Length	526	546	609	598
			Std. Error	9	10	21	-
			Range	465- 554	501- 609	559- 660	598- 598
			Sample Size	8	13	4	1
		F	Mean Length	517	526	553	
			Std. Error	9	5	9	
			Range	486- 537	490- 570	514- 605	
			Sample Size	5	23	11	0
	Season	M	Mean Length	534	582	602	612
			Range	436- 577	474- 679	507- 682	562- 667
			Sample Size	45	211	236	8
		F	Mean Length	510	544	570	577
			Range	459- 557	435- 613	465- 650	548- 645
			Sample Size	27	225	196	7
2003	7/11-13 (6/15-7/15)	M	Mean Length		568	575	600
			Std. Error		4	8	-
			Range		476- 654	508- 630	600- 600
			Sample Size	0	95	17	1
		F	Mean Length		541	548	
			Std. Error		3	7	
			Range		481- 600	494- 590	
			Sample Size	0	58	16	0
	7/18-20 (7/16-23)	M	Mean Length		560	587	530
			Std. Error		4	8	-
			Range		480- 640	569- 609	530- 530
			Sample Size	0	78	5	1
		F	Mean Length	507	527	547	
			Std. Error	11	3	9	
			Range	449- 554	476- 600	512- 603	
			Sample Size	8	86	11	0

Appendix C.8. Mean length (mm) of chum salmon at the George River weir based on escapement samples collected with a fish trap. [a] (page 9 of 16)

Year	Sample Dates (Stratum Dates)	Sex		Age Class 0.2	0.3	0.4	0.5
	7/25-26 (7/24-8/1)	M	Mean Length		537	567	
			Std. Error		4	12	
			Range		480- 603	527- 605	
			Sample Size	0	52	6	0
		F	Mean Length	510	515	551	
			Std. Error	-	3	19	
			Range	510- 510	454- 597	480- 620	
			Sample Size	1	84	6	0
	8/12-13 (8/2-9/19)	M	Mean Length	424	541	516	
			Std. Error	-	5	-	
			Range	424- 424	485- 598	516- 516	
			Sample Size	1	37	1	0
		F	Mean Length		503		
			Std. Error		4		
			Range		470- 561		
			Sample Size	0	32	0	0
	Season	M	Mean Length	424	555	572	570
			Range	424- 424	476- 654	508- 630	530- 600
			Sample Size	1	262	29	2
		F	Mean Length	507	522	548	
			Range	449- 554	454- 600	480- 620	
			Sample Size	9	260	33	0
2004	6/28-7/2 (6/15-7/4)	M	Mean Length		574	589	
			Std. Error		8	4	
			Range		540- 622	528- 651	
			Sample Size	0	12	56	0
		F	Mean Length		555	553	
			Std. Error		4	5	
			Range		510- 600	510- 612	
			Sample Size	0	28	34	0
	7/6-8 (7/5-11)	M	Mean Length	541	585	585	595
			Std. Error	9	4	5	-
			Range	487- 590	522- 672	500- 675	595- 595
			Sample Size	13	57	42	1
		F	Mean Length	514	536	551	
			Std. Error	12	4	8	
			Range	450- 565	485- 625	485- 620	
			Sample Size	10	47	19	0

Appendix C.8. Mean length (mm) of chum salmon at the George River weir based on escapement samples collected with a fish trap. [a] (page 10 of 16)

Year	Sample Dates (Stratum Dates)	Sex		Age Class 0.2	0.3	0.4	0.5
	7/13-16 (7/12-18)	M	Mean Length	528	564	585	
			Std. Error	8	6	4	
			Range	512- 557	502- 632	515- 675	
			Sample Size	5	27	65	0
		F	Mean Length	511	522	536	
			Std. Error	8	5	4	
			Range	499- 525	400- 590	466- 595	
			Sample Size	3	40	61	0
	7/20-24 (7/19-26)	M	Mean Length	520	557	581	
			Std. Error	8	5	5	
			Range	460- 560	505- 604	515- 689	
			Sample Size	16	28	57	0
		F	Mean Length	497	518	530	492
			Std. Error	6	4	6	-
			Range	462- 550	450- 580	470- 587	492- 492
			Sample Size	19	42	35	1
	7/27-8/1,11-12 (7/27-9/24)	M	Mean Length	513	546	575	
			Std. Error	6	9	6	
			Range	465- 560	428- 640	479- 662	
			Sample Size	22	24	36	0
		F	Mean Length	497	520	539	
			Std. Error	5	5	5	
			Range	442- 569	455- 610	485- 630	
			Sample Size	35	50	38	0
	Season	M	Mean Length	527	574	586	595
			Range	460- 590	428- 672	479- 689	595- 595
			Sample Size	56	148	256	1
		F	Mean Length	502	536	545	492
			Range	442- 569	400- 625	466- 630	492- 492
			Sample Size	67	207	187	1
2005	7/1-3,6,8 (6/15-7/9)	M	Mean Length	553	567	593	575
			Std. Error	-	3	12	-
			Range	553- 553	498- 645	539- 646	575- 575
			Sample Size	1	98	8	1
		F	Mean Length	514	534	528	570
			Std. Error	9	4	10	-
			Range	493- 530	450- 595	500- 559	570- 570
			Sample Size	4	80	6	1

Appendix C.8. Mean length (mm) of chum salmon at the George River weir based on escapement samples collected with a fish trap. [a] (page 11 of 16)

Year	Sample Dates (Stratum Dates)	Sex		Age Class 0.2	0.3	0.4	0.5
	7/11-13 (7/10-16)	M	Mean Length	565	556	568	580
			Std. Error	15	3	13	-
			Range	550- 580	460- 622	515- 615	580- 580
			Sample Size	2	110	6	1
		F	Mean Length	530	521		
			Std. Error	45	3		
			Range	485- 575	435- 580		
			Sample Size	2	74	0	0
	7/18-20 (7/17-22)	M	Mean Length	508	558	604	
			Std. Error	5	4	11	
			Range	497- 524	427- 660	554- 642	
			Sample Size	5	98	8	0
		F	Mean Length	510	522	490	512
			Std. Error	7	4	-	-
			Range	488- 546	419- 577	490- 490	512- 512
			Sample Size	7	66	1	1
	7/25-27 (7/23-28)	M	Mean Length	480	535	485	
			Std. Error	8	4	-	
			Range	455- 500	486- 606	485- 485	
			Sample Size	5	57	1	0
		F	Mean Length	490	504	502	
			Std. Error	5	3	15	
			Range	456- 536	447- 592	472- 532	
			Sample Size	19	81	4	0
	7/29-8/2 (7/29-8/12)	M	Mean Length	470	540	554	537
			Std. Error	15	4	11	-
			Range	455- 500	420- 600	520- 590	537- 537
			Sample Size	3	70	5	1
		F	Mean Length	493	512		
			Std. Error	6	4		
			Range	462- 540	416- 595		
			Sample Size	12	88	0	0
	8/29-9/1,4 (8/13-9/20)	M	Mean Length		542	560	
			Std. Error		9	-	
			Range		486- 626	560- 560	
			Sample Size	0	19	1	0
		F	Mean Length	480	524		
			Std. Error	12	4		
			Range	442- 513	456- 569		
			Sample Size	5	34	0	0

Appendix C.8. Mean length (mm) of chum salmon at the George River weir based on escapement samples collected with a fish trap. [a] (page 12 of 16)

Year	Sample Dates (Stratum Dates)	Sex		Age Class 0.2	0.3	0.4	0.5
	Season	M	Mean Length	513	557	582	571
			Range	455- 580	420- 660	485- 646	537- 580
			Sample Size	16	452	29	3
		F	Mean Length	499	522	520	549
			Range	442- 575	416- 595	472- 559	512- 570
			Sample Size	49	423	11	2
2006	6/25-29 (6/15-7/2)	M	Mean Length		566	575	
			Std. Error		6	3	
			Range		510- 625	500- 640	
			Sample Size	0	22	71	0
		F	Mean Length		544	557	
			Std. Error		5	4	
			Range		490- 610	515- 615	
			Sample Size	0	33	51	0
	7/6-9 (7/3-13)	M	Mean Length	511	552	568	647
			Std. Error	23	5	7	-
			Range	449- 545	500- 615	497- 658	647- 647
			Sample Size	4	30	39	1
		F	Mean Length	506	540	547	
			Std. Error	1	4	4	
			Range	505- 506	482- 615	496- 639	
			Sample Size	2	61	46	0
	7/17-18 (7/14-23)	M	Mean Length		557	571	
			Std. Error		4	6	
			Range		490- 620	489- 659	
			Sample Size	0	44	30	0
		F	Mean Length	492	519	532	
			Std. Error	10	3	3	
			Range	456- 519	479- 554	490- 568	
			Sample Size	6	55	49	0
	7/28-30 (7/24-31)	M	Mean Length	506	540	548	
			Std. Error	19	5	5	
			Range	450- 545	465- 616	495- 600	
			Sample Size	5	50	28	0
		F	Mean Length	491	503	520	
			Std. Error	11	3	5	
			Range	465- 537	445- 555	460- 570	
			Sample Size	6	54	35	0

Appendix C.8. Mean length (mm) of chum salmon at the George River weir based on escapement samples collected with a fish trap. [a] (page 13 of 16)

Year	Sample Dates (Stratum Dates)	Sex		Age Class 0.2	0.3	0.4	0.5
	8/4-5 (8/1-10)	M	Mean Length	515	538	565	
			Std. Error	18	7	7	
			Range	465- 575	440- 656	490- 620	
			Sample Size	5	43	29	0
		F	Mean Length	491	505	519	
			Std. Error	8	4	6	
			Range	450- 530	450- 620	480- 600	
			Sample Size	8	60	35	0
	8/15-17 (8/11-9/20)	M	Mean Length		520	558	
			Std. Error		18	11	
			Range		477- 574	518- 582	
			Sample Size	0	5	5	0
		F	Mean Length	475	507	519	
			Std. Error	-	8	11	
			Range	475- 475	457- 554	457- 569	
			Sample Size	1	13	8	0
	Season	M	Mean Length	510	551	568	647
			Range	449- 575	440- 656	489- 659	647- 647
			Sample Size	14	194	202	1
		F	Mean Length	493	524	538	
			Range	450- 537	445- 620	457- 639	
			Sample Size	23	276	224	0
2007	6/28-30 (6/15-7/4)	M	Mean Length	548	568	573	585
			Std. Error	23	3	6	18
			Range	525- 570	505- 625	520- 615	550- 620
			Sample Size	2	76	26	4
		F	Mean Length		539	528	544
			Std. Error		3	7	19
			Range		480- 585	500- 545	525- 562
			Sample Size	0	60	7	2
	7/8-9 (7/5-18)	M	Mean Length		555	576	580
			Std. Error		3	11	-
			Range		500- 610	510- 695	580- 580
			Sample Size	0	101	17	1
		F	Mean Length		532	548	
			Std. Error		4	8	
			Range		480- 675	515- 590	
			Sample Size	0	54	10	0

Appendix C.8. Mean length (mm) of chum salmon at the George River weir based on escapement samples collected with a fish trap. [a] (page 14 of 16)

Year	Sample Dates (Stratum Dates)	Sex		Age Class 0.2	0.3	0.4	0.5
	7/26-27 (7/19-30)	M	Mean Length	525	546	557	558
			Std. Error	-	5	7	8
			Range	525- 525	480- 635	535- 605	550- 565
			Sample Size	1	50	10	2
		F	Mean Length	510	525	527	570
			Std. Error	15	3	7	-
			Range	495- 525	480- 590	485- 600	570- 570
			Sample Size	2	76	21	1
	8/4-5 (7/31-9/20)	M	Mean Length	505	544	560	605
			Std. Error	20	4	20	15
			Range	455- 545	470- 645	520- 630	590- 620
			Sample Size	4	68	6	2
		F	Mean Length	508	516	545	495
			Std. Error	8	3	7	5
			Range	470- 530	450- 590	505- 585	490- 500
			Sample Size	8	81	11	2
	Season [d]	M	Mean Length	517	552	568	573
			Range	455- 570	470- 645	510- 695	550- 620
			Sample Size	7	295	59	9
		F	Mean Length	509	526	534	542
			Range	470- 530	450- 675	485- 600	490- 570
			Sample Size	10	271	49	5
2008	7/8-11 (6/15-7/15)	M	Mean Length		582	582	560
			Std. Error		6	4	29
			Range		560-605	515-790	510-610
			Sample Size	0	6	101	3
		F	Mean Length	545	530	551	570
			Std. Error	-	6	3	6
			Range	545-545	500-550	490-620	560-580
			Sample Size	1	7	71	3
	7/18-20,22 (7/16-25)	M	Mean Length		552	552	568
			Std. Error		6	4	13
			Range		500-620	440-650	525-610
			Sample Size	0	24	74	6
		F	Mean Length		531	530	585
			Std. Error		6	4	-
			Range		440-575	445-620	585-585
			Sample Size	0	30	61	1

Appendix C.8. Mean length (mm) of chum salmon at the George River weir based on escapement samples collected with a fish trap. [a] (page 15 of 16)

Year	Sample Dates (Stratum Dates)	Sex		Age Class 0.2	0.3	0.4	0.5
	7/28-30 (7/26-8/2)	M	Mean Length	490	561	567	603
			Std. Error	-	9	5	23
			Range	490-490	500-610	650	580-625
			Sample Size	1	12	53	2
		F	Mean Length	540	520	533	567
			Std. Error	-	5	5	2
			Range	540-540	470-610	790	565-570
			Sample Size	1	36	88	3
	8/7-9 (8/3-9/20)	M	Mean Length	525	546	556	577
			Std. Error	15	8	5	19
			Range	510-540	440-600	485-635	540-605
			Sample Size	2	22	51	3
		F	Mean Length	498	507	514	523
			Std. Error	9	4	4	22
			Range	475-530	465-570	445-580	490-565
			Sample Size	6	44	72	3
	Season	M	Mean Length	505	559	571	568
			Range	490-540	440-620	440-790	510-625
			Sample Size	3	64	279	14
		F	Mean Length	528	525	540	568
			Range	475-545	440-610	445-790	490-585
			Sample Size	8	117	292	10
2009	7/4,6,10 (6/15-7/12)	M	Mean Length	557	570	591	596
			Std. Error	22	11	9	13
			Range	535- 578	516- 622	554- 700	570- 645
			Sample Size	2	11	15	5
		F	Mean Length	555	546	559	590
			Std. Error	-	5	7	-
			Range	555- 555	519- 595	505- 590	590- 590
			Sample Size	1	17	11	1
	7/13-15,17,20 (7/13-20)	M	Mean Length	510	559	551	572
			Std. Error	11	6	7	13
			Range	473- 557	494- 633	511- 605	515- 603
			Sample Size	8	25	18	6
		F	Mean Length	511	526	516	614
			Std. Error	9	5	7	.
			Range	466- 550	439- 591	461- 558	614- 614
			Sample Size	8	35	14	1

Appendix C.8. Mean length (mm) of chum salmon at the George River weir based on escapement samples collected with a fish trap. [a] (page 16 of 16)

Year	Sample Dates (Stratum Dates)	Sex		Age Class 0.2	0.3	0.4	0.5
	7/21-28 (7/21-30)	M	Mean Length	525	550	562	552
			Std. Error	7	4	4	10
			Range	454- 597	431- 653	505- 611	517- 573
			Sample Size	21	105	37	5
		F	Mean Length	487	526	528	535
			Std. Error	5	3	5	9
			Range	428- 548	416- 626	442- 593	510- 566
			Sample Size	26	93	39	6
	8/1-16 (7/31-9/20)	M	Mean Length	518	561	569	616
			Std. Error	9	5	9	14
			Range	486- 566	487- 640	513- 669	601- 644
			Sample Size	10	45	19	3
		F	Mean Length	497	527	520	
			Std. Error	7	3	6	
			Range	463- 545	444- 602	478- 585	
			Sample Size	13	71	19	0
	Season	M	Mean Length	525	559	574	586
			Range	454- 597	431- 653	505- 700	515- 645
			Sample Size	41	186	89	19
		F	Mean Length	505	533	538	576
			Range	428- 555	416- 626	442- 593	510- 614
			Sample Size	48	216	83	8
	Grand Total [c]	M	Mean Length	521	567	587	596
			Range	454- 601	420- 703	485- 689	515- 698
			Sample size	183	2,253	1,618	62
		F	Mean Length	516	535	550	560
			Range	428- 614	372- 639	433- 657	510- 605
			Sample size	248	2,503	1,392	32

a "Season" mean lengths are weighted by the escapement passage in each stratum.

b The weir washed out in 1998; this year excluded from the "Grand Total".

c "Grand Total" mean lengths are simple averages of the "Season" mean lengths.

d Sampling dates do not meet criteria for estimating escapement percentages for some or all of the strata; "Season" is not included in the "Grand Total"

Appendix C.9. Age and sex of chum salmon at the Salmon River weir site based on escapement samples collected with a fish trap [a]. (page 1 of 2)

Year	Sample Dates (Stratum Dates)	Sample Size	Sex	Age Class 0.2 Esc.	0.2 %	0.3 Esc.	0.3 %	0.4 Esc.	0.4 %	0.5 Esc.	0.5 %	Total Esc.	Total %
2006	6/30-7/2	156	M	0	0.0	278	10.9	1,572	61.5	0	0.0	1,850	72.4
	(6/21-7/4)		F	0	0.0	115	4.5	589	23.1	0	0.0	704	27.6
			Subtotal	0	0.0	393	15.4	2,161	84.6	0	0.0	2,554	100.0
	7/6-7	102	M	0	0.0	2,495	24.5	3,992	39.2	0	0.0	6,487	63.7
	(7/5-11)		F	100	1.0	2,196	21.6	1,298	12.8	100	1.0	3,693	36.3
			Subtotal	100	1.0	4,691	46.1	5,290	52.0	100	1.0	10,180	100.0
	7/14-15	175	M	0	0.0	3,795	29.7	4,088	32.0	0	0.0	7,883	61.7
	(7/12-19)		F	73	0.6	3,358	26.3	1,460	11.4	0	0.0	4,891	38.3
			Subtotal	73	0.6	7,153	56.0	5,548	43.4	0	0.0	12,774	100.0
	7/22	167	M	136	1.8	2,665	35.3	2,123	28.1	45	0.6	4,969	65.9
	(7/20-25)		F	90	1.2	1,717	22.8	768	10.2	0	0.0	2,575	34.1
			Subtotal	226	3.0	4,382	58.1	2,891	38.3	45	0.6	7,544	100.0
	7/28,30	187	M	32	0.5	2,131	35.8	1,335	22.5	0	0.0	3,498	58.8
	(7/26-8/3)		F	222	3.8	1,685	28.4	541	9.1	0	0.0	2,448	41.2
			Subtotal	254	4.3	3,816	64.2	1,876	31.6	0	0.0	5,946	100.0
	8/7	59	M	0	0.0	266	20.3	532	40.7	0	0.0	798	61.0
	(8/4-8)		F	0	0.0	200	15.3	310	23.7	0	0.0	510	39.0
			Subtotal	0	0.0	466	35.6	842	64.4	0	0.0	1,308	100.0
	Season	846	M	167	0.4	11,631	28.9	13,642	33.9	45	0.1	25,486	63.2
			F	486	1.2	9,269	23.0	4,966	12.3	100	0.3	14,820	36.8
			Total	653	1.6	20,900	51.9	18,608	46.2	145	0.4	40,306	100.0
2007	7/4-9	194	M	0	0.0	861	28.9	1,045	35.1	153	5.1	2,059	69.1
	(6/15-7/12)		F	15	0.5	384	12.9	446	14.9	77	2.6	922	30.9
			Subtotal	15	0.5	1,245	41.8	1,491	50.0	230	7.7	2,981	100.0
	7/16-17	191	M	102	1.0	3,781	38.7	1,890	19.4	153	1.6	5,927	60.7
	(7/13-21)		F	153	1.6	2,606	26.7	1,073	11.0	0	0.0	3,832	39.3
			Subtotal	255	2.6	6,387	65.4	2,963	30.4	153	1.6	9,759	100.0
	7/25-27	187	M	0	0.0	3,621	38.5	2,062	21.9	101	1.1	5,783	61.5
	(7/22-31)		F	201	2.1	2,162	23.0	1,257	13.4	0	0.0	3,621	38.5
			Subtotal	201	2.1	5,783	61.5	3,319	35.3	101	1.1	9,404	100.0
	8/4-6	187	M	17	0.5	1,263	39.1	450	13.9	35	1.1	1,765	54.5
	(8/1-22)		F	35	1.1	1,107	34.2	311	9.6	17	0.5	1,470	45.5
			Subtotal	52	1.6	2,370	73.3	761	23.5	52	1.6	3,235	100.0
	Season	759	M	120	0.5	9,525	37.5	5,447	21.4	442	1.7	15,534	61.2
			F	404	1.6	6,260	24.7	3,087	12.2	94	0.4	9,845	38.8
			Total	524	2.1	15,785	62.2	8,534	33.6	536	2.1	25,379	100.0
2008	7/6-7,9-10	170	M	0	0.0	51	5.3	720	75.3	40	4.1	810	84.7
	(6/15-7/13)		F	0	0.0	11	1.2	124	12.9	11	1.2	146	15.3
			Subtotal	0	0.0	62	6.5	844	88.2	51	5.3	956	100.0

Appendix C.9. Age and sex of chum salmon at the Salmon River weir site based on escapement samples collected with a fish trap [a]. (page 2 of 2)

Year	Sample Dates (Stratum Dates)	Sample Size	Sex	Age Class 0.2 Esc.	0.2 %	0.3 Esc.	0.3 %	0.4 Esc.	0.4 %	0.5 Esc.	0.5 %	Total Esc.	Total %
	7/16-18	155	M	0	0.0	188	9.7	1,091	56.1	75	3.9	1,355	69.7
	(7/14-18)		F	0	0.0	88	4.5	414	21.3	88	4.5	589	30.3
			Subtotal	0	0.0	276	14.2	1,505	77.4	163	8.4	1,944	100.0
	7/24-25	174	M	0	0.0	536	16.1	1,666	50.0	134	4.0	2,336	70.1
	(7/19-28)		F	0	0.0	268	8.0	689	20.7	38	1.2	995	29.9
			Subtotal	0	0.0	804	24.1	2,355	70.7	172	5.2	3,331	100.0
	8/1-3	167	M	19	0.6	754	23.3	1,276	39.5	58	1.8	2,107	65.3
	(7/29-9/20)		F	0	0.0	386	12.0	638	19.8	97	3.0	1,121	34.7
			Subtotal	19	0.6	1,140	35.3	1,914	59.3	155	4.8	3,228	100.0
	Season	666	M	19	0.2	1,528	16.1	4,752	50.3	307	3.2	6,607	69.8
			F	0	0.0	754	8.0	1,865	19.7	234	2.5	2,852	30.2
			Total	19	0.2	2,282	24.1	6,617	70.0	541	5.7	9,459	100.0
	Grand	2,271	M	306	0.4	22,684	30.2	23,841	31.7	794	1.1	47,627	63.4
	Total		F	890	1.2	16,283	21.7	9,918	13.2	428	0.6	27,517	36.6
			Total	1,196	1.6	38,967	51.9	33,759	44.9	1,222	1.6	75,144	100.0

[a] The number of fish in each stratum age and sex category are derived from the sample percentages; discrepancies in sums are attributed to rounding errors.

Appendix C.10. Mean length (mm) of chum salmon at the Salmon River weir site based on escapement samples collected with a fish trap [a]. (page 1 of 4)

Year	Sample Dates (Stratum Dates)	Sex		Age Class 0.2	0.3	0.4	0.5
2006	6/30-7/2 (6/21-7/4)	M	Mean Length		558	579	
			Std. Error		7	3	
			Range		501- 632	524- 642	
			Sample Size	0	17	96	0
		F	Mean Length		547	560	
			Std. Error		10	4	
			Range		515- 578	488- 601	
			Sample Size	0	7	36	0
	7/6-7 (7/5-11)	M	Mean Length		558	583	
			Std. Error		6	4	
			Range		494- 618	519- 639	
			Sample Size	0	25	40	0
		F	Mean Length	525	547	553	562
			Std. Error	-	4	5	-
			Range	525- 525	504- 588	524- 583	562- 562
			Sample Size	1	22	13	1
	7/14-15 (7/12-19)	M	Mean Length		557	578	
			Std. Error		3	3	
			Range		506- 626	520- 645	
			Sample Size	0	52	56	0
		F	Mean Length	519	545	560	
			Std. Error	-	4	5	
			Range	519- 519	481- 611	514- 607	
			Sample Size	1	46	20	0
	7/22 (7/20-25)	M	Mean Length	491	556	571	572
			Std. Error	1	4	4	-
			Range	489- 493	496- 631	522- 652	572- 572
			Sample Size	3	59	47	1
		F	Mean Length	496	538	557	
			Std. Error	1	4	6	
			Range	495- 497	471- 597	521- 601	
			Sample Size	2	38	17	0
	7/28,30 (7/26-8/3)	M	Mean Length	488	552	570	
			Std. Error	-	3	4	
			Range	488- 488	510- 626	496- 631	
			Sample Size	1	67	42	0
		F	Mean Length	499	531	542	
			Std. Error	6	4	7	
			Range	478- 525	468- 592	510- 624	
			Sample Size	7	53	17	0

Appendix C.10. Mean length (mm) of chum salmon at the Salmon River weir site based on escapement samples collected with a fish trap [a]. (page 2 of 4)

Year	Sample Dates (Stratum Dates)	Sex		Age Class 0.2	0.3	0.4	0.5
	8/7 (8/4-8)	M	Mean Length		564	579	
			Std. Error		7	6	
			Range		512- 614	527- 638	
			Sample Size	0	12	24	0
		F	Mean Length		552	560	
			Std. Error		6	5	
			Range		519- 584	536- 600	
			Sample Size	0	9	14	0
	Season	M	Mean Length	490	556	577	572
			Range	488- 493	494- 632	496- 652	572- 572
			Sample Size	4	232	305	1
		F	Mean Length	507	542	556	562
			Range	478- 525	468- 611	488- 624	562- 562
			Sample Size	11	175	117	1
2007	7/4-9 (6/15-7/12)	M	Mean Length		561	574	581
			Std. Error		3	4	10
			Range		504- 617	503- 637	517- 622
			Sample Size	0	56	68	10
		F	Mean Length	488	547	549	556
			Std. Error	-	6	5	11
			Range	488- 488	500- 621	487- 607	523- 582
			Sample Size	1	25	29	5
	7/16-17 (7/13-21)	M	Mean Length	539	564	582	601
			Std. Error	19	3	4	24
			Range	520- 557	505- 626	540- 628	572- 648
			Sample Size	2	74	37	3
		F	Mean Length	510	544	557	
			Std. Error	11	3	4	
			Range	488- 524	504- 594	510- 582	
			Sample Size	3	51	21	0
	7/25-27 (7/22-31)	M	Mean Length		553	567	597
			Std. Error		3	4	5
			Range		498- 606	515- 620	592- 602
			Sample Size	0	72	41	2
		F	Mean Length	530	532	539	
			Std. Error	16	3	7	
			Range	481- 554	495- 579	451- 622	
			Sample Size	4	43	25	0

Appendix C.10. Mean length (mm) of chum salmon at the Salmon River weir site based on escapement samples collected with a fish trap [a]. (page 3 of 4)

Year	Sample Dates (Stratum Dates)	Sex		Age Class 0.2	0.3	0.4	0.5
	8/4-6 (8/1-22)	M	Mean Length	527	559	571	569
			Std. Error	-	3	6	7
			Range	527- 527	493- 628	497- 631	562- 576
			Sample Size	1	73	26	2
		F	Mean Length	511	523	523	526
			Std. Error	33	4	7	-
			Range	478- 543	452- 592	453- 573	526- 526
			Sample Size	2	64	18	1
	Season	M	Mean Length	537	559	574	591
			Range	520- 557	493- 628	497- 637	517- 648
			Sample Size	3	275	172	17
		F	Mean Length	519	536	545	550
			Range	478- 554	452- 621	451- 622	523- 582
			Sample Size	10	183	93	6
2008	7/6-7,9-10 (6/15-7/13)	M	Mean Length		569	580	581
			Std. Error		3	2	6
			Range		555-585	521-688	552-599
			Sample Size	0	9	128	7
		F	Mean Length		540	555	547
			Std. Error		19	5	8
			Range		521-558	510-602	539-555
			Sample Size	0	2	22	2
	7/16/18 (7/14-18)	M	Mean Length		552	573	580
			Std. Error		10	2	9
			Range		432-598	521-643	540-605
			Sample Size	0	15	87	6
		F	Mean Length		543	556	558
			Std. Error		11	4	10
			Range		507-595	505-596	524-594
			Sample Size	0	7	33	7
	7/24-25 (7/19-28)	M	Mean Length		558	572	566
			Std. Error		5	3	5
			Range		510-607	515-633	543-585
			Sample Size	0	28	87	7
		F	Mean Length		527	553	501
			SE		9	5	6
			Range		466-592	445-613	495-507
			Sample Size	0	14	36	2

Appendix C.10. Mean length (mm) of chum salmon at the Salmon River weir site based on escapement samples collected with a fish trap [a]. (page 4 of 4)

Year	Sample Dates (Stratum Dates)	Sex		Age Class 0.2	0.3	0.4	0.5
	8/1-3 (7/29-9/20)	M	Mean Length	480	557	568	562
			Std. Error	-	4	3	17
			Range	480-480	496-595	513-660	530-585
			Sample Size	1	39	66	3
		F	Mean Length		529	548	543
			Std. Error		6	4	12
			Range		479-582	495-580	510-573
			Sample Size	0	20	33	5
	Season	M	Mean Length	480	557	572	571
			Range	480-480	432-607	513-688	530-605
			Sample Size	1	91	368	23
		F	Mean Length		530	552	542
			Range		466-595	445-613	495-594
			Sample Size	0	43	124	16
	Grand Total	M	Mean Length	502	557	574	578
			Range	520- 557	493- 628	497- 637	517- 648
			Sample size	8	598	845	41
		F	Mean Length	513	536	551	551
			Range	478- 554	452- 621	451- 622	523- 582
			Sample size	21	401	334	23

[a] "Season" mean lengths are weighted by the escapement passage in each stratum.

Appendix C.11. Age and sex of Aniak River chum salmon escapement based on samples collected with a beach seine, and abundance estimates based on the use of Bendix (1980 to 1995) and Biosonics (1996 to 2004) sonar equipment. (page 1 of 8)

Year	Sample Dates (Stratum Dates)	Sample Size	Sex	Age Class 0.2 Esc.	0.2 %	0.3 Esc.	0.3 %	0.4 Esc.	0.4 %	0.5 Esc.	0.5 %	Total Esc.	Total %
1984 [a]	6/27-7/6	26	M		0.0		46.2		15.4		7.7		69.3
			F		0.0		11.5		15.4		3.8		30.7
			Subtotal		0.0		57.7		30.8		11.5		100.0
	7/7-13	23	M		0.0		56.5		17.4		0.0		73.9
			F		0.0		17.4		8.7		0.0		26.1
			Subtotal		0.0		73.9		26.1		0.0		100.0
	7/14-18	28	M		0.0		50.0		14.3		0.0		64.3
			F		0.0		21.4		14.3		0.0		35.7
			Subtotal		0.0		71.4		28.6		0.0		100.0
	7/20-30	27	M		0.0		44.4		18.5		0.0		63.0
			F		0.0		25.9		11.1		0.0		37.0
			Subtotal		0.0		70.3		29.6		0.0		100.0
	Season [b]	104	M		0.0		49.0		16.3		1.9		67.3
			F		0.0		19.2		12.5		1.0		32.7
			Total		0.0		68.3		28.8		2.9		100.0
1985 [a]	6/26-7/6	19	M		0.0		0.0		63.2		0.0		63.2
			F		0.0		10.5		26.3		0.0		36.8
			Subtotal		0.0		10.5		89.5		0.0		100.0
	7/7-13	36	M		0.0		8.3		30.6		5.6		44.5
			F		0.0		22.2		33.3		0.0		55.5
			Subtotal		0.0		30.5		63.9		5.6		100.0
	7/14-19	61	M		0.0		24.6		29.5		0.0		54.1
			F		0.0		26.2		19.7		0.0		45.9
			Subtotal		0.0		50.8		49.2		0.0		100.0
	7/20-30	52	M		0.0		25.0		26.9		0.0		51.9
			F		0.0		23.1		25.0		0.0		48.1
			Subtotal		0.0		48.1		51.9		0.0		100.0
	Season [b]	168	M		0.0		18.5		32.7		1.2		52.4
			F		0.0		22.6		25.0		0.0		47.6
			Total		0.0		41.1		57.7		1.2		100.0
1989 [a]	7/30	54	M		0.0		31.5		27.8		0.0		59.3
			F		0.0		27.8		13.0		0.0		40.8
			Total		0.0		59.3		40.7		0.0		100.0
1994 [a]	7/25-26	92	M										
			F										
			Total		1.1		77.2		20.7		1.1		100.0
1995 [c]	7/6-7	46	M		0.0		4.3		39.1		0.0		43.5
			F		0.0		21.7		34.8		0.0		56.5
			Subtotal		0.0		26.1		73.9		0.0		100.0
	7/13,15,17	39	M		2.6		25.6		41.0		0.0		69.2
			F		0.0		12.8		17.9		0.0		30.7
			Subtotal		2.6		38.5		58.9		0.0		100.0

Appendix C.11. Age and sex of Aniak River chum salmon escapement based on samples collected with a beach seine, and abundance estimates based on the use of Bendix (1980 to 1995) and Biosonics (1996 to 2004) sonar equipment. (page 2 of 8)

Year	Sample Dates (Stratum Dates)	Sample Size	Sex	Age Class 0.2 Esc.	0.2 %	0.3 Esc.	0.3 %	0.4 Esc.	0.4 %	0.5 Esc.	0.5 %	Total Esc.	Total %
	7/18	47	M		2.1		25.5		17.0		0.0		44.7
			F		4.3		25.5		25.5		0.0		55.3
			Subtotal		6.4		51.0		42.6		0.0		100.0
	7/20-21	62	M		3.2		29.0		14.5		0.0		46.7
			F		9.7		33.9		9.7		0.0		53.3
			Subtotal		12.9		62.9		24.2		0.0		100.0
	7/24-25	50	M		4.0		20.0		16.0		2.0		42.0
			F		2.0		40.0		14.0		2.0		58.0
			Subtotal		6.0		60.0		30.0		4.0		100.0
	Season [b]	244	M		2.5		21.3		24.2		0.4		48.4
			F		3.7		27.9		19.7		0.4		51.6
			Total		6.1		49.2		43.9		0.8		100.0
1996	7/1-2	78	M	0	0.0	15,822	17.9	12,431	14.1	2,260	2.6	30,513	34.6
	(6/21-7/4)		F	0	0.0	32,773	37.2	24,863	28.2	0	0.0	57,636	65.4
			Subtotal	0	0.0	48,595	55.1	37,294	42.3	2,260	2.6	88,149	100.0
	7/5-8	35	M	0	0.0	14,422	28.6	8,653	17.1	0	0.0	23,075	45.7
	(7/6-7)		F	0	0.0	15,864	31.4	11,538	22.9	0	0.0	27,402	54.3
			Subtotal	0	0.0	30,286	60.0	20,191	40.0	0	0.0	50,477	100.0
	7/10-11	59	M	0	0.0	8,014	18.6	5,829	13.6	0	0.0	13,843	32.2
	(7/9-14)		F	0	0.0	21,129	49.2	8,014	18.6	0	0.0	29,143	67.8
			Subtotal	0	0.0	29,143	67.8	13,843	32.2	0	0.0	42,986	100.0
	7/16	120	M	0	0.0	6,937	36.7	1,892	10.0	158	0.8	8,987	47.5
	(7/15-17)		F	473	2.5	7,883	41.7	1,577	8.3	0	0.0	9,932	52.5
			Subtotal	473	2.5	14,820	78.3	3,468	18.3	158	0.8	18,919	100.0
	7/19-20	167	M	1,216	1.2	37,710	37.1	7,299	7.2	608	0.6	46,834	46.1
	(7/18-28)		F	3,649	3.6	37,102	36.5	12,165	12.0	1,825	1.8	54,741	53.9
			Subtotal	4,866	4.8	74,813	73.7	19,463	19.2	2,433	2.4	101,575	100.0
	Season [d]	459	M	1,216	0.4	82,905	27.4	36,104	12.0	3,026	1.0	123,252	40.8
			F	4,122	1.4	114,751	38.0	58,156	19.3	1,825	0.6	178,854	59.2
			Total	5,339	1.8	197,657	65.4	94,260	31.2	4,851	1.6	302,106	100.0
1997	6/30,7/2-4	139	M	0	0.0	15,207	22.3	22,074	32.4	491	0.7	37,772	55.4
	(6/16-7/6)		F	491	0.7	16,679	24.5	13,245	19.4	0	0.0	30,414	44.6
			Subtotal	491	0.7	31,886	46.8	35,319	51.8	491	0.7	68,186	100.0
	7/9-12	169	M	0	0.0	13,860	32.6	8,568	20.1	252	0.6	22,680	53.3
	(7/7-13)		F	252	0.6	14,364	33.7	4,788	11.3	504	1.2	19,908	46.7
			Subtotal	252	0.6	28,224	66.3	13,356	31.4	756	1.8	42,588	100.0
	7/15-16	138	M	305	1.5	6,863	32.6	5,033	23.9	0	0.0	12,201	58.0
	(7/14-17)		F	305	1.4	5,033	23.9	3,507	16.7	0	0.0	8,845	42.0
			Subtotal	610	2.9	11,896	56.5	8,540	40.6	0	0.0	21,046	100.0
	7/20	124	M	0	0.0	20,504	37.1	6,686	12.1	0	0.0	27,189	49.2
	(7/18-22)		F	446	0.8	19,166	34.7	8,023	14.5	446	0.8	28,081	50.8
			Subtotal	446	0.8	39,670	71.8	14,709	26.6	446	0.8	55,270	100.0

Appendix C.11. Age and sex of Aniak River chum salmon escapement based on samples collected with a beach seine, and abundance estimates based on the use of Bendix (1980 to 1995) and Biosonics (1996 to 2004) sonar equipment. (page 3 of 8)

Year	Sample Dates (Stratum Dates)	Sample Size	Sex	Age Class 0.2 Esc.	0.2 %	0.3 Esc.	0.3 %	0.4 Esc.	0.4 %	0.5 Esc.	0.5 %	Total Esc.	Total %
	7/24	156	M	0	0.0	7,620	32.7	3,138	13.5	0	0.0	10,758	46.2
	(7/23-26)		F	598	2.6	9,263	39.7	2,689	11.5	0	0.0	12,550	53.8
			Subtotal	598	2.6	16,883	72.4	5,827	25.0	0	0.0	23,308	100.0
	7/28	127	M	0	0.0	17,238	33.1	2,873	5.5	0	0.0	20,111	38.6
	(7/27-8/3)		F	1,231	2.4	26,267	50.4	4,515	8.7	0	0.0	32,013	61.4
			Subtotal	1,231	2.4	43,505	83.5	7,388	14.2	0	0.0	52,124	100.0
	Season [d]	853	M	305	0.1	81,291	30.9	48,372	18.4	742	0.3	130,710	49.8
			F	3,322	1.3	90,772	34.6	36,767	14.0	950	0.3	131,812	50.2
			Total	3,627	1.4	172,063	65.5	85,139	32.4	1,692	0.6	262,522	100.0
1998	7/1-3	72	M	0	0.0	15,644	44.4	3,422	9.7	0	0.0	19,066	54.2
	(6/24-7/5)		F	0	0.0	13,688	38.9	1,955	5.6	489	1.4	16,132	45.8
			Subtotal	0	0.0	29,332	83.3	5,377	15.3	489	1.4	35,198	100.0
	7/7-8	165	M	0	0.0	20,871	46.1	5,492	12.1	275	0.6	26,637	58.8
	(7/6-12)		F	0	0.0	14,554	32.1	4,119	9.1	0	0.0	18,674	41.2
			Subtotal	0	0.0	35,425	78.2	9,611	21.2	275	0.6	45,311	100.0
	7/15-16	220	M	0	0.0	23,999	45.9	5,465	10.4	0	0.0	29,464	56.4
	(7/13-18)		F	0	0.0	20,672	39.6	2,138	4.1	0	0.0	22,810	43.6
			Subtotal	0	0.0	44,671	85.5	7,603	14.5	0	0.0	52,274	100.0
	7/20	204	M	0	0.0	25,866	41.2	1,232	1.9	308	0.5	27,405	43.6
	(7/19-22)		F	308	0.5	31,100	49.5	4,003	6.4	0	0.0	35,412	56.4
			Subtotal	308	0.5	56,966	90.7	5,235	8.3	308	0.5	62,817	100.0
	7/24-25	210	M	511	1.0	18,918	35.2	2,301	4.3	0	0.0	21,730	40.5
	(7/23-27)		F	0	0.0	30,422	56.7	1,534	2.8	0	0.0	31,956	59.5
			Subtotal	511	1.0	49,340	91.9	3,835	7.1	0	0.0	53,686	100.0
	7/29-30	173	M	0	0.0	9,757	32.3	523	1.8	0	0.0	10,280	34.1
	(7/28-31)		F	0	0.0	18,470	61.3	1,394	4.6	0	0.0	19,864	65.9
			Subtotal	0	0.0	28,227	93.6	1,917	6.4	0	0.0	30,144	100.0
	Season [d]	1,044	M	511	0.2	115,054	41.2	18,435	6.6	582	0.2	134,582	48.2
			F	308	0.1	128,907	46.1	15,144	5.4	489	0.2	144,848	51.8
			Total	819	0.3	243,961	87.3	33,579	12.0	1,071	0.4	279,430	100.0
1999	7/3-6	151	M	0	0.0	3,661	16.5	8,054	36.4	146	0.7	11,861	53.6
	(7/1-8)		F	0	0.0	4,686	21.2	5,564	25.2	0	0.0	10,250	46.4
			Subtotal	0	0.0	8,347	37.7	13,618	61.6	146	0.7	22,111	100.0
	7/10-12	182	M	0	0.0	7,441	23.6	8,653	27.5	0	0.0	16,094	51.1
	(7/9-14)		F	0	0.0	7,960	25.3	7,441	23.6	0	0.0	15,401	48.9
			Subtotal	0	0.0	15,401	48.9	16,094	51.1	0	0.0	31,495	100.0
	7/16-18	175	M	0	0.0	10,026	26.9	7,253	19.4	213	0.6	17,492	46.9
	(7/15-20)		F	213	0.6	12,586	33.7	7,039	18.9	0	0.0	19,839	53.1
			Subtotal	213	0.6	22,612	60.6	14,292	38.3	213	0.6	37,331	100.0
	7/22-23	187	M	0	0.0	12,194	31.0	6,307	16.0	0	0.0	18,501	47.1
	(7/21-25)		F	0	0.0	15,558	39.6	5,256	13.4	0	0.0	20,814	52.9
			Subtotal	0	0.0	27,752	70.6	11,563	29.4	0	0.0	39,315	100.0

Appendix C.11. Age and sex of Aniak River chum salmon escapement based on samples collected with a beach seine, and abundance estimates based on the use of Bendix (1980 to 1995) and Biosonics (1996 to 2004) sonar equipment. (page 4 of 8)

Year	Sample Dates (Stratum Dates)	Sample Size	Sex	Age Class 0.2 Esc.	0.2 %	0.3 Esc.	0.3 %	0.4 Esc.	0.4 %	0.5 Esc.	0.5 %	Total Esc.	Total %
	7/27-29	192	M	0	0.0	12,622	26.6	7,177	15.1	247	0.5	20,047	42.2
	(7/26-8/3)		F	0	0.0	19,304	40.6	8,167	17.2	0	0.0	27,471	57.8
			Subtotal	0	0.0	31,926	67.2	15,344	32.3	247	0.5	47,518	100.0
	Season [d]	887	M	0	0.0	45,944	25.8	37,444	21.1	607	0.3	83,995	47.2
			F	213	0.1	60,094	33.8	33,468	18.8	0	0.0	93,775	52.8
			Total	213	0.1	106,038	59.6	70,912	39.9	607	0.3	177,770	100.0
2000	6/29-7/6	102	M	318	1.0	8,596	26.5	8,596	26.5	318	1.0	17,828	54.9
	(6/26-7/7)		F	0	0.0	9,870	30.4	4,776	14.7	0	0.0	14,645	45.1
			Subtotal	318	1.0	18,466	56.9	13,372	41.2	318	1.0	32,473	100.0
	7/9-12	109	M	0	0.0	13,184	32.1	5,650	13.8	377	0.9	19,210	46.8
	(7/8-13)		F	0	0.0	16,950	41.3	4,897	11.9	0	0.0	21,847	53.2
			Subtotal	0	0.0	30,134	73.4	10,547	25.7	377	0.9	41,057	100.0
	7/16-17	149	M	0	0.0	7,409	31.6	2,207	9.4	0	0.0	9,617	40.9
	(7/14-19)		F	315	1.3	11,824	50.3	1,734	7.4	0	0.0	13,873	59.1
			Subtotal	315	1.3	19,233	81.9	3,941	16.8	0	0.0	23,490	100.0
	7/21-22	182	M	449	2.2	6,962	34.1	1,572	7.7	0	0.0	8,983	44.0
	(7/20-23)		F	112	0.5	10,443	51.1	898	4.4	0	0.0	11,454	56.0
			Subtotal	561	2.7	17,405	85.2	2,470	12.1	0	0.0	20,437	100.0
	7/25-27	189	M	424	1.6	7,487	28.1	1,413	5.3	0	0.0	9,324	34.9
	(7/24-31)		F	989	3.7	13,703	51.3	2,684	10.0	0	0.0	17,376	65.1
			Subtotal	1,413	5.3	21,190	79.4	4,097	15.3	0	0.0	26,700	100.0
	Season [d]	731	M	1,191	0.8	43,638	30.3	19,438	13.5	695	0.5	64,962	45.1
			F	1,417	1.0	62,790	43.5	14,989	10.4	0	0.0	79,195	54.9
			Total	2,608	1.8	106,428	73.8	34,427	23.9	695	0.5	144,157	100.0
2001	7/6-8	160	M	0	0.0	0	31.9	0	20.6	0	0.0	0	52.5
	No counts		F	0	0.0	0	28.7	0	18.8	0	0.0	0	47.5
			Subtotal	0	0.0	0	60.6	0	39.4	0	0.0	0	100.0
	7/12-14	179	M	0	0.0	33,366	39.7	12,219	14.5	0	0.0	45,585	54.2
	(7/12-17)		F	940	1.1	24,907	29.6	12,688	15.1	0	0.0	38,535	45.8
			Subtotal	940	1.1	58,273	69.3	24,907	29.6	0	0.0	84,120	100.0
	7/20-21	174	M	0	0.0	39,620	52.3	6,531	8.6	0	0.0	46,150	60.9
	(7/18-23)		F	435	0.6	24,381	32.2	4,789	6.3	0	0.0	29,606	39.1
			Subtotal	435	0.6	64,001	84.5	11,320	14.9	0	0.0	75,756	100.0
	7/25-28	168	M	0	0.0	27,465	44.1	2,598	4.1	0	0.0	30,064	48.2
	(7/24-31)		F	0	0.0	30,435	48.8	1,856	3.0	0	0.0	32,290	51.8
			Subtotal	0	0.0	57,900	92.9	4,454	7.1	0	0.0	62,354	100.0
	Season [d]	681	M	0	0.0	100,451	45.2	21,347	9.6	0	0.0	121,798	54.8
			F	1,375	0.6	79,723	35.9	19,334	8.7	0	0.0	100,432	45.2
			Total	1,375	0.6	180,174	81.1	40,681	18.3	0	0.0	222,230	100.0
2002	6/30,7/1,3	97	M	796	1.0	31,821	41.2	14,319	18.6	0	0.0	46,936	60.8
	(6/26 - 7/5)		F	0	0.0	19,888	25.8	10,342	13.4	0	0.0	30,230	39.2
			Subtotal	796	1.0	51,709	67.0	24,661	32.0	0	0.0	77,166	100.0

Appendix C.11. Age and sex of Aniak River chum salmon escapement based on samples collected with a beach seine, and abundance estimates based on the use of Bendix (1980 to 1995) and Biosonics (1996 to 2004) sonar equipment. (page 5 of 8)

Year	Sample Dates (Stratum Dates)	Sample Size	Sex	Age Class 0.2 Esc.	0.2 %	0.3 Esc.	0.3 %	0.4 Esc.	0.4 %	0.5 Esc.	0.5 %	Total Esc.	Total %
	7/9	174	M	0	0.0	34,986	43.1	12,595	15.5	0	0.0	47,581	58.6
	(7/6-11)		F	466	0.6	23,791	29.3	9,330	11.5	0	0.0	33,587	41.4
			Subtotal	466	0.6	58,777	72.4	21,925	27.0	0	0.0	81,168	100.0
	7/14-15	184	M	905	1.1	36,627	44.0	7,235	8.7	0	0.0	44,766	53.8
	(7/12-17)		F	452	0.5	33,462	40.2	4,522	5.4	0	0.0	38,436	46.2
			Subtotal	1,357	1.6	70,089	84.2	11,757	14.1	0	0.0	83,202	100.0
	7/20-21	174	M	757	1.2	22,343	33.9	3,787	5.7	0	0.0	26,887	40.8
	(7/18-23)		F	2,651	4.0	32,947	50.0	3,408	5.2	0	0.0	39,006	59.2
			Subtotal	3,408	5.2	55,290	83.9	7,195	10.9	0	0.0	65,893	100.0
	7/26	176	M	1,573	2.9	20,769	37.5	2,203	4.0	0	0.0	24,545	44.3
	(7/24-31)		F	2,832	5.1	24,230	43.8	3,461	6.2	315	0.6	30,838	55.7
			Subtotal	4,405	8.0	44,999	81.3	5,664	10.2	315	0.6	55,383	100.0
	Season	805	M	4,031	1.1	146,546	40.4	40,139	11.1	0	0.0	190,716	52.6
			F	6,401	1.8	134,317	37.0	31,063	8.5	315	0.1	172,096	47.4
			Total	10,432	2.9	280,863	77.4	71,202	19.6	315	0.1	362,812	100.0
2003	6/25,27- 28	55	M	0	0.0	2,331	30.9	2,743	36.3	0	0.0	5,074	67.3
	(6/28-30)		F	0	0.0	1,097	14.6	1,371	18.2	0	0.0	2,468	32.7
			Subtotal	0	0.0	3,428	45.5	4,114	54.5	0	0.0	7,542	100.0
	7/2-4	141	M	291	0.7	13,381	32.6	8,727	21.3	1,164	2.8	23,562	57.4
	(7/1-6)		F	0	0.0	11,927	29.1	5,527	13.5	0	0.0	17,454	42.6
			Subtotal	291	0.7	25,308	61.7	14,254	34.8	1,164	2.8	41,016	100.0
	7/8-9	243	M	0	0.0	29,628	42.8	12,535	18.1	855	1.3	43,018	62.1
	(7/7-12)		F	570	0.8	17,948	25.9	6,837	9.9	854	1.2	26,210	37.9
			Subtotal	570	0.8	47,576	68.7	19,372	28.0	1,709	2.5	69,228	100.0
	7/14	146	M	459	0.7	26,171	39.0	5,051	7.5	0	0.0	31,680	47.3
	(7/13-17)		F	0	0.0	30,762	45.9	4,132	6.2	459	0.7	35,354	52.7
			Subtotal	459	0.7	56,933	84.9	9,183	13.7	459	0.7	67,034	100.0
	7/20-21	180	M	0	0.0	35,568	36.7	3,772	3.9	0	0.0	39,341	40.6
	(7/18-24)		F	0	0.0	49,041	50.5	8,084	8.3	539	0.6	57,663	59.4
			Subtotal	0	0.0	84,609	87.2	11,856	12.2	539	0.6	97,004	100.0
	7/26-27	165	M	0	0.0	32,629	40.0	2,966	3.6	0	0.0	35,595	43.6
	(7/25-31)		F	0	0.0	42,516	52.1	3,461	4.3	0	0.0	45,977	56.4
			Subtotal	0	0.0	75,145	92.1	6,427	7.9	0	0.0	81,572	100.0
	Season	930	M	750	0.2	139,709	38.4	35,794	9.8	2,018	0.6	178,270	49.1
			F	570	0.2	153,291	42.2	29,412	8.1	1,853	0.5	185,126	50.9
			Total	1,320	0.4	293,000	80.6	65,206	17.9	3,871	1.1	363,396	100.0
2004	6/28-30	184	M	913	1.1	13,238	15.7	35,150	41.8	0	0.0	49,301	58.7
	(6/25-7/2)		F	1,826	2.2	12,326	14.7	20,542	24.5	0	0.0	34,694	41.3
			Subtotal	2,739	3.3	25,564	30.4	55,692	66.3	0	0.0	83,995	100.0
	7/4-5	182	M	2,159	2.2	24,824	25.3	21,046	21.4	540	0.5	48,568	49.5
	(7/3-8)		F	5,396	5.5	25,363	25.8	18,888	19.3	0	0.0	49,648	50.5
			Subtotal	7,555	7.7	50,187	51.1	39,934	40.7	540	0.5	98,216	100.0

Appendix C.11. Age and sex of Aniak River chum salmon escapement based on samples collected with a beach seine, and abundance estimates based on the use of Bendix (1980 to 1995) and Biosonics (1996 to 2004) sonar equipment. (page 6 of 8)

Year	Sample Dates (Stratum Dates)	Sample Size	Sex	Age Class 0.2 Esc.	0.2 %	0.3 Esc.	0.3 %	0.4 Esc.	0.4 %	0.5 Esc.	0.5 %	Total Esc.	Total %
	7/10-11	180	M	11,545	10.0	35,277	30.6	33,994	29.4	0	0.0	80,816	70.0
	(7/9-13)		F	4,490	3.9	18,600	16.1	11,545	10.0	0	0.0	34,635	30.0
			Subtotal	16,035	13.9	53,877	46.7	45,539	39.4	0	0.0	115,451	100.0
	7/16-17	196	M	22,317	14.8	40,786	27.0	20,778	13.8	1,539	1.0	85,420	56.6
	(7/14-19)		F	20,008	13.3	27,704	18.4	17,700	11.7	0	0.0	65,412	43.4
			Subtotal	42,325	28.1	68,490	45.4	38,478	25.5	1,539	1.0	150,832	100.0
	7/22-23	189	M	31,056	22.2	26,620	19.1	17,007	12.2	0	0.0	74,683	53.4
	(7/20-25)		F	23,662	17.0	34,014	24.3	7,394	5.3	0	0.0	65,071	46.6
			Subtotal	54,718	39.2	60,634	43.4	24,401	17.5	0	0.0	139,754	100.0
	7/28-29	199	M	14,984	17.6	15,412	18.1	5,137	6.0	0	0.0	35,534	41.7
	(7/26-31)		F	26,116	30.6	16,697	19.6	6,850	8.1	0	0.0	49,662	58.3
			Subtotal	41,100	48.2	32,109	37.7	11,987	14.1	0	0.0	85,196	100.0
	Season	1,130	M	82,974	12.3	156,157	23.2	133,113	19.8	2,079	0.3	374,323	55.6
			F	81,498	12.1	134,704	20.0	82,919	12.3	0	0.0	299,121	44.4
			Total	164,472	24.4	290,861	43.2	216,032	32.1	2,079	0.3	673,444	100.0
2005	6/23-26	46	M	0	0.0	19,061	50.0	4,972	13.0	0	0.0	24,033	63.0
	(6/22-28)		F	0	0.0	14,088	37.0	0	0.0	0	0.0	14,088	37.0
			Subtotal	0	0.0	33,149	87.0	4,972	13.0	0	0.0	38,121	100.0
	6/30-7/2	191	M	1,129	1.0	54,760	50.8	9,032	8.4	0	0.0	64,921	60.2
	(6/29-7/5)		F	2,258	2.1	37,824	35.1	2,823	2.6	0	0.0	42,905	39.8
			Subtotal	3,387	3.1	92,584	85.9	11,855	11.0	0	0.0	107,826	100.0
	7/8-9	177	M	0	0.0	134,680	59.9	8,894	3.9	0	0.0	143,574	63.8
	(7/6-11)		F	8,894	4.0	68,611	30.5	3,812	1.7	0	0.0	81,317	36.2
			Subtotal	8,894	4.0	203,291	90.4	12,706	5.6	0	0.0	224,891	100.0
	7/14-15	176	M	1,645	0.6	134,882	46.6	1,645	0.6	0	0.0	138,171	47.7
	(7/12-17)		F	21,384	7.4	128,302	44.3	1,645	0.5	0	0.0	151,331	52.3
			Subtotal	23,029	8.0	263,184	90.9	3,290	1.1	0	0.0	289,502	100.0
	7/20-21	173	M	3,722	1.2	154,462	48.0	1,861	0.6	1,861	0.6	161,906	50.3
	(7/18-24)		F	14,888	4.6	141,436	43.9	3,722	1.1	0	0.0	160,046	49.7
			Subtotal	18,610	5.8	295,898	91.9	5,583	1.7	1,861	0.6	321,952	100.0
	7/28-29	177	M	2,157	1.1	83,031	43.5	2,157	1.1	0	0.0	87,344	45.8
	(7/25-31)		F	12,940	6.8	87,344	45.8	3,235	1.7	0	0.0	103,519	54.2
			Subtotal	15,097	7.9	170,375	89.3	5,392	2.8	0	0.0	190,863	100.0
	Season	940	M	8,652	0.7	580,876	49.5	28,562	2.4	1,861	0.2	619,951	52.8
			F	60,364	5.2	477,604	40.7	15,236	1.3	0	0.0	553,204	47.2
			Total	69,016	5.9	1,058,480	90.2	43,798	3.7	1,861	0.2	1,173,155	100.0
2006	7/1-3	26	M	0	0.0	48,807	26.9	76,697	42.3	0	0.0	125,504	69.2
	(6/26-7/4)		F	0	0.0	48,807	26.9	6,972	3.9	0	0.0	55,779	30.8
			Subtotal	0	0.0	97,614	53.8	83,669	46.2	0	0.0	181,283	100.0
	7/6	62	M	0	0.0	62,119	45.2	33,278	24.2	0	0.0	95,397	69.4
	(7/5-7)		F	0	0.0	24,404	17.7	17,748	12.9	0	0.0	42,152	30.6
			Subtotal	0	0.0	86,523	62.9	51,026	37.1	0	0.0	137,549	100.0
	7/8-11	156	M	0	0.0	107,752	48.1	57,468	25.6	0	0.0	165,220	73.7
	(7/8-13)		F	0	0.0	35,917	16.0	22,987	10.3	0	0.0	58,904	26.3
			Subtotal	0	0.0	143,669	64.1	80,455	35.9	0	0.0	224,124	100.0

Appendix C.11. Age and sex of Aniak River chum salmon escapement based on samples collected with a beach seine, and abundance estimates based on the use of Bendix (1980 to 1995) and Biosonics (1996 to 2004) sonar equipment. (page 7 of 8)

Year	Sample Dates (Stratum Dates)	Sample Size	Sex	Age Class 0.2 Esc.	0.2 %	0.3 Esc.	0.3 %	0.4 Esc.	0.4 %	0.5 Esc.	0.5 %	Total Esc.	Total %
	7/15-16	206	M	0	0.0	68,368	28.7	48,669	20.4	0	0.0	117,036	49.0
	(7/14-19)		F	0	0.0	85,749	35.9	35,922	15.0	0	0.0	121,672	51.0
			Subtotal	0	0.0	154,117	64.6	84,591	35.4	0	0.0	238,708	100.0
	7/23-24	191	M	2,363	1.0	67,350	29.8	50,808	22.5	0	0.0	120,522	53.4
	(7/20-26)		F	4,726	2.1	54,352	24.1	46,081	20.4	0	0.0	105,160	46.6
			Subtotal	7,089	3.1	121,702	53.9	96,889	42.9	0	0.0	225,682	100.0
	7/28	105	M	0	0.0	28,937	28.6	11,575	11.5	0	0.0	40,512	40.0
	(7/27-31)		F	1,929	1.9	47,264	46.6	11,575	11.4	0	0.0	60,768	60.0
			Subtotal	1,929	1.9	76,201	75.2	23,150	22.9	0	0.0	101,280	100.0
	Season	746	M	2,363	0.2	383,333	34.6	278,494	25.1	0	0.0	664,190	59.9
			F	6,656	0.6	296,494	26.7	141,286	12.8	0	0.0	444,436	40.1
			Total	9,019	0.8	679,827	61.3	419,780	37.9	0	0.0	1,108,626	100.0
2007	7/3,5,7	187	M	0	0.0	17,520	15.5	22,353	19.8	4,229	3.7	44,102	39.0
	(6/22-7/8)		F	604	0.5	41,081	36.4	25,978	23.0	1,208	1.1	68,871	61.0
			Subtotal	604	0.5	58,601	51.9	48,331	42.8	5,437	4.8	112,973	100.0
	7/10,11,13	159	M	0	0.0	62,736	31.5	38,897	19.5	1,255	0.6	102,888	51.6
	(7/9-15)		F	0	0.0	65,246	32.7	31,368	15.7	0	0.0	96,614	48.4
			Subtotal	0	0.0	127,982	64.2	70,265	35.2	1,255	0.6	199,502	100.0
	7/18-19	148	M	0	0.0	50,950	34.5	18,981	12.8	999	0.7	70,930	48.0
	(7/16-22)		F	4,995	3.4	50,949	34.4	20,980	14.2	0	0.0	76,924	52.0
			Subtotal	4,995	3.4	101,899	68.9	39,961	27.0	999	0.7	147,854	100.0
	7/24,26	175	M	1,365	0.6	66,878	28.0	24,568	10.3	0	0.0	92,810	38.9
	(7/23-31)		F	8,189	3.4	110,553	46.3	24,567	10.3	2,730	1.1	146,040	61.1
			Subtotal	9,554	4.0	177,431	74.3	49,135	20.6	2,730	1.1	238,850	100.0
	Season	669	M	1,365	0.2	198,084	28.3	104,798	15.0	6,483	0.9	310,730	44.4
			F	13,788	2.0	267,830	38.3	102,893	14.7	3,938	0.6	388,449	55.6
			Total	15,153	2.2	465,914	66.6	207,691	29.7	10,421	1.5	699,179	100.0
2008	7/8,10,14	149	M	0	0.0	10,001	6.7	58,005	39.0	1,000	0.7	69,006	46.3
	(6/15-7/15)		F	0	0.0	13,001	8.7	58,004	38.9	9,001	6.0	80,006	53.7
			Subtotal	0	0.0	23,002	15.4	116,009	77.9	10,001	6.7	149,012	100.0
	7/16,19,22-23	164	M	0	0.0	21,488	13.4	54,697	34.1	2,930	1.8	79,115	49.4
	(7/16-24)		F	0	0.0	24,418	15.3	55,674	34.8	977	0.6	81,069	50.6
			Subtotal	0	0.0	45,906	28.7	110,371	68.9	3,907	2.4	160,184	100.0
	7/27-28	171	M	0	0.0	29,158	24.6	24,993	21.1	2,777	2.3	56,928	48.0
	(7/25-9/20)		F	0	0.0	29,158	24.5	30,546	25.7	2,083	1.8	61,787	52.0
			Subtotal	0	0.0	58,316	49.1	55,539	46.8	4,860	4.1	118,715	100.0
	Season	484	M	0	0.0	60,647	14.2	137,694	32.2	6,707	1.6	205,048	47.9
			F	0	0.0	66,577	15.5	144,225	33.7	12,060	2.8	222,863	52.1
			Total	0	0.0	127,244	29.7	281,919	65.9	18,767	4.4	427,911	100.0

Appendix C.11. Age and sex of Aniak River chum salmon escapement based on samples collected with a beach seine, and abundance estimates based on the use of Bendix (1980 to 1995) and Biosonics (1996 to 2004) sonar equipment. (page 8 of 8)

Year	Sample Dates (Stratum Dates)	Sample Size	Sex	Age Class 0.2 Esc.	0.2 %	0.3 Esc.	0.3 %	0.4 Esc.	0.4 %	0.5 Esc.	0.5 %	Total Esc.	Total %
2009	7/5,7,9,12 (6/15-7/14)	91	M	0	0.0	57,240	35.1	26,831	16.5	1,789	1.1	85,860	52.7
			F	3,577	2.2	50,085	30.8	23,254	14.3	0	0.0	76,916	47.3
			Subtotal	3,577	2.2	107,325	65.9	50,085	30.8	1,789	1.1	162,776	100.0
	7/15,17,19,21 (7/15-21)	183	M	1,524	1.1	41,929	30.1	16,009	11.5	2,287	1.6	61,751	44.3
			F	3,812	2.7	59,464	42.6	14,485	10.4	0	0.0	77,760	55.7
			Subtotal	5,336	3.8	101,393	72.7	30,494	21.9	2,287	1.6	139,511	100.0
	7/23,25 (7/22-31)	210	M	3,376	1.9	54,861	30.9	19,413	11.0	1,688	0.9	79,337	44.8
			F	5,064	2.9	78,493	44.3	13,504	7.6	844	0.5	97,906	55.2
			Subtotal	8,440	4.8	133,354	75.2	32,917	18.6	2,532	1.4	177,243	100.0
	Season	484	M	4,901	1.0	154,030	32.1	62,253	13.0	5,764	1.2	226,948	47.3
			F	12,453	2.6	188,042	39.2	51,243	10.7	844	0.2	252,582	52.7
			Total	17,354	3.6	342,072	71.3	113,496	23.7	6,608	1.4	479,530	100.0
	Grand Total [e]	10,843	M	108,259	1.6	2,288,665	34.3	1,001,987	15.0	30,564	0.5	3,429,475	51.4
			F	192,487	2.9	2,255,896	33.8	776,135	11.6	22,274	0.3	3,246,793	48.6
			Total	300,747	4.5	4,544,582	68.1	1,778,122	26.6	52,838	0.8	6,676,268	100.0

[a] Sampling dates do not meet criteria for estimating escapement percentages for some or all of the strata.

[b] For the season summary the percentages are weighted by sample size rather than estimated abundance.

[c] Escapement estimates are not available for 1995.

[d] The number of fish in "Season" summaries are the strata sums; "Season" percentages are derived from the sums.

[e] The number of fish in the "Grand total" are the sum of the "Season" totals; percentages are derived from those sums.

Appendix C.12. Mean length (mm) of Aniak River chum salmon escapement based on samples collected with a beach seine, and abundance estimates based on the use of Bendix (1980 to 1995) and Biosonics (1996 to 2004) sonar equipment . (page 1 of 19)

Year	Sample Dates (Stratum Dates)	Sex		Age Class 0.2	0.3	0.4	0.5
1995	7/6-7	M	Mean Length		615	576	
			Std. Error		5	7	
			Range		610- 620	540- 640	
			Sample Size	0	2	18	0
		F	Mean Length		553	552	
			Std. Error		12	6	
			Range		500- 625	505- 595	
			Sample Size	0	10	16	0
	7/13-17	M	Mean Length	540	562	576	
			Std. Error	-	11	7	
			Range	540- 540	510- 610	540- 630	
			Sample Size	1	10	16	0
		F	Mean Length		543	551	
			Std. Error		18	6	
			Range		500- 600	535- 575	
			Sample Size	0	5	7	0
	7/18	M	Mean Length	520	560	593	
			Std. Error	-	8	9	
			Range	520- 520	515- 605	575- 640	
			Sample Size	1	12	8	0
		F	Mean Length	513	543	549	
			Std. Error	8	10	8	
			Range	505- 520	500- 625	510- 600	
			Sample Size	2	12	12	0
	7/20-21	M	Mean Length	518	584	583	
			Std. Error	13	6	13	
			Range	505- 530	545- 645	525- 630	
			Sample Size	2	18	9	0
		F	Mean Length	530	541	564	
			Std. Error	14	5	10	
			Range	475- 575	485- 575	530- 590	
			Sample Size	6	10	6	0
	7/24-25	M	Mean Length	533	563	598	580
			Std. Error	3	9	10	-
			Range	530- 535	525- 610	550- 630	580- 580
			Sample Size	2	10	8	1
		F	Mean Length	550	538	566	585
			Std. Error	-	6	8	-
			Range	550- 550	495- 580	530- 585	585- 585
			Sample Size	1	20	7	1

Appendix C.12. Mean length (mm) of Aniak River chum salmon escapement based on samples collected with a beach seine, and abundance estimates based on the use of Bendix (1980 to 1995) and Biosonics (1996 to 2004) sonar equipment . (page 2 of 19)

Year	Sample Dates (Stratum Dates)	Sex		Age Class 0.2	0.3	0.4	0.5
	Season [a]	M	Mean Length	527	571	582	580
			Range	505- 540	505- 645	525- 640	580- 580
			Sample size	6	52	59	1
		F	Mean Length	528	543	555	585
			Range	475- 575	485- 625	505- 600	585- 585
			Sample size	9	57	48	1
1996	7/1-2 (6/21-7/4)	M	Mean Length		608	624	635
			Std. Error		7	8	5
			Range	0	555- 640	565- 675	630- 640
			Sample Size		14	11	2
		F	Mean Length		576	596	
			Std. Error		5	6	
			Range		525- 670	540- 650	
			Sample Size	0	29	22	0
	7/5-8 (7/6-7)	M	Mean Length		610	626	
			Std. Error		9	11	
			Range		570- 675	605- 680	
			Sample Size	0	10	6	0
		F	Mean Length		572	578	
			Std. Error		6	11	
			Range		540- 605	540- 625	
			Sample Size	0	11	8	0
	7/10-11 (7/9-14)	M	Mean Length		614	634	
			Std. Error		9	10	
			Range		550- 650	590- 685	
			Sample Size	0	11	8	0
		F	Mean Length		575	577	
			Std. Error		5	6	
			Range		500- 640	550- 610	
			Sample Size	0	29	11	0
	7/16 (7/15-17)	M	Mean Length		591	607	580
			Std. Error		4	7	-
			Range		530- 655	575- 650	580- 580
			Sample Size	0	44	12	1
		F	Mean Length	553	548	568	
			Std. Error	9	3	7	
			Range	540- 570	470- 595	535- 595	
			Sample Size	3	50	10	0

Appendix C.12. Mean length (mm) of Aniak River chum salmon escapement based on samples collected with a beach seine, and abundance estimates based on the use of Bendix (1980 to 1995) and Biosonics (1996 to 2004) sonar equipment . (page 3 of 19)

Year	Sample Dates (Stratum Dates)	Sex		Age Class 0.2	0.3	0.4	0.5
	7/19-20 (7/18-28)	M	Mean Length	575	593	591	610
			Std. Error	10	3	10	-
			Range	565- 585	540- 645	550- 640	610- 610
			Sample Size	2	62	12	1
		F	Mean Length	552	548	560	563
			Std. Error	17	3	5	16
			Range	495- 610	480- 630	505- 590	535- 590
			Sample Size	6	61	20	3
	Season [b]	M	Mean Length	575	600	618	627
			Range	565- 585	530- 675	550- 685	580- 640
			Sample size	2	141	49	4
		F	Mean Length	552	564	582	563
			Range	495- 610	470- 670	505- 650	535- 590
			Sample size	9	180	71	3
1997	6/30,7/2-4 (6/16-7/6)	M	Mean Length		607	621	630
			Std. Error		6	4	-
			Range		505- 665	555- 695	630- 630
			Sample Size	0	31	45	1
		F	Mean Length	545	557	580	
			Std. Error	-	6	5	
			Range	545- 545	505- 620	545- 665	
			Sample Size	1	34	26	0
	7/9-12 (7/7-13)	M	Mean Length		598	612	610
			Std. Error		4	6	-
			Range		510- 705	535- 695	610- 610
			Sample Size	0	55	34	1
		F	Mean Length	500	553	574	540
			Std. Error	-	5	5	30
			Range	500- 500	495- 670	535- 645	510- 570
			Sample Size	1	57	19	2
	7/15-16 (7/14-17)	M	Mean Length	553	585	609	
			Std. Error	23	4	6	
			Range	530- 575	515- 650	530- 690	
			Sample Size	2	45	33	0
		F	Mean Length	525	553	566	
			Std. Error	15	5	5	
			Range	510- 540	500- 610	500- 615	
			Sample Size	2	33	23	0

Appendix C.12. Mean length (mm) of Aniak River chum salmon escapement based on samples collected with a beach seine, and abundance estimates based on the use of Bendix (1980 to 1995) and Biosonics (1996 to 2004) sonar equipment . (page 4 of 19)

Year	Sample Dates (Stratum Dates)	Sex		Age Class 0.2	0.3	0.4	0.5
	7/20 (7/18-22)	M	Mean Length		576	609	
			Std. Error		5	8	
			Range		510- 695	555- 665	
			Sample Size	0	45	15	0
		F	Mean Length	570	539	547	575
			Std. Error	-	5	6	-
			Range	570- 570	485- 640	475- 590	575- 575
			Sample Size	1	42	18	1
	7/24 (7/23-26)	M	Mean Length		575	609	
			Std. Error		4	7	
			Range		535- 635	560- 665	
			Sample Size	0	51	21	0
		F	Mean Length	541	542	569	
			Std. Error	7	3	5	
			Range	525- 555	495- 590	525- 595	
			Sample Size	4	61	18	0
	7/28 (7/27-8/3)	M	Mean Length		571	605	
			Std. Error		4	16	
			Range		515- 630	525- 650	
			Sample Size	0	42	7	0
		F	Mean Length	513	537	567	
			Std. Error	17	3	9	
			Range	480- 530	485- 600	510- 610	
			Sample Size	3	64	11	0
	Season [b]	M	Mean Length	553	585	615	623
			Range	530- 575	505- 705	525- 695	610- 630
			Sample Size	2	269	155	2
		F	Mean Length	531	545	568	556
			Range	480- 570	485- 670	475- 665	510- 575
			Sample Size	12	291	115	3
1998	7/1-3 (6/24-7/5)	M	Mean Length		588	579	
			Std. Error		5	11	
			Range		540- 675	545- 630	
			Sample Size	0	32	7	0
		F	Mean Length		556	546	580
			Std. Error		4	11	-
			Range		495- 590	525- 575	580- 580
			Sample Size	0	28	4	1

Appendix C.12. Mean length (mm) of Aniak River chum salmon escapement based on samples collected with a beach seine, and abundance estimates based on the use of Bendix (1980 to 1995) and Biosonics (1996 to 2004) sonar equipment . (page 5 of 19)

Year	Sample Dates (Stratum Dates)	Sex		Age Class 0.2	0.3	0.4	0.5
	7/7-8 (7/6-12)	M	Mean Length		584	591	530
			Std. Error		3	5	-
			Range		535- 665	550- 635	530- 530
			Sample Size	0	76	20	1
		F	Mean Length		548	569	
			Std. Error		3	6	
			Range		505- 595	530- 610	
			Sample Size	0	53	15	0
	7/15-16 (7/13-18)	M	Mean Length		591	603	
			Std. Error		3	7	
			Range		515- 680	540- 690	
			Sample Size	0	101	23	0
		F	Mean Length		559	569	
			Std. Error		2	6	
			Range		520- 620	535- 590	
			Sample Size	0	87	9	0
	7/20 (7/19-22)	M	Mean Length		587	630	
			Std. Error		3	18	
			Range		530- 670	595- 680	
			Sample Size	0	79	4	0
		F	Mean Length	550	548	564	
			Std. Error	-	3	9	
			Range	550- 550	495- 620	520- 610	
			Sample Size	1	98	13	0
	7/24-25 (7/23-27)	M	Mean Length	565	580	587	
			Std. Error	-	3	13	
			Range	565- 565	525- 655	545- 660	
			Sample Size	2	74	9	0
		F	Mean Length		549	552	
			Std. Error		2	7	
			Range		480- 605	530- 575	
			Sample Size	0	119	6	0
	7/29-30 (7/28-31)	M	Mean Length		570	582	
			Std. Error		4	6	
			Range		500- 670	570- 590	
			Sample Size	0	56	3	0
		F	Mean Length		543	562	
			Std. Error		3	16	
			Range		470- 660	490- 655	
			Sample Size	0	106	8	0

Appendix C.12. Mean length (mm) of Aniak River chum salmon escapement based on samples collected with a beach seine, and abundance estimates based on the use of Bendix (1980 to 1995) and Biosonics (1996 to 2004) sonar equipment . (page 6 of 19)

Year	Sample Dates (Stratum Dates)	Sex		Age Class 0.2	0.3	0.4	0.5
	Season [b]	M	Mean Length	565	585	594	530
			Range	565- 565	500- 680	540- 690	530- 530
			Sample Size	2	418	66	1
		F	Mean Length	550	550	562	580
			Range	550- 550	470- 660	490- 655	580- 580
			Sample Size	1	491	55	1
1999	7/3-6 (7/1-8)	M	Mean Length		586	609	615
			Std. Error		4	4	-
			Range		550- 620	505- 670	615- 615
			Sample Size	0	25	55	1
		F	Mean Length		554	572	
			Std. Error		4	4	
			Range		510- 610	530- 640	
			Sample Size	0	32	38	0
	7/10-12 (7/9-14)	M	Mean Length		587	610	
			Std. Error		4	4	
			Range		520- 660	550- 690	
			Sample Size	0	43	50	0
		F	Mean Length		563	575	
			Std. Error		5	4	
			Range		520- 695	520- 655	
			Sample Size	0	46	43	0
	7/16-18 (7/15-20)	M	Mean Length		583	597	575
			Std. Error		4	5	-
			Range		515- 645	545- 665	575- 575
			Sample Size	0	47	34	1
		F	Mean Length	575	562	564	
			Std. Error	-	3	4	
			Range	575- 575	495- 615	505- 615	
			Sample Size	1	59	33	0
	7/22-23 (7/21-25)	M	Mean Length		580	599	
			Std. Error		4	5	
			Range		490- 640	560- 670	
			Sample Size	0	58	30	0
		F	Mean Length		557	569	
			Std. Error		3	5	
			Range		500- 625	520- 610	
			Sample Size	0	74	25	0

Appendix C.12. Mean length (mm) of Aniak River chum salmon escapement based on samples collected with a beach seine, and abundance estimates based on the use of Bendix (1980 to 1995) and Biosonics (1996 to 2004) sonar equipment . (page 7 of 19)

Year	Sample Dates (Stratum Dates)	Sex		Age Class 0.2	0.3	0.4	0.5
	7/27-29 (7/26-8/3)	M	Mean Length		578	592	640
			Std. Error		5	6	-
			Range		490- 640	530- 645	640- 640
			Sample Size	0	51	29	1
		F	Mean Length		540	559	
			Std. Error		3	5	
			Range		480- 600	520- 625	
			Sample Size	0	78	33	0
	Season [b]	M	Mean Length		582	602	611
			Range		490- 660	505- 690	575- 640
			Sample Size	0	224	198	3
		F	Mean Length	575	553	568	
			Range	575- 575	480- 695	505- 655	
			Sample Size	1	289	172	0
2000	6/29-7/6 (6/26-7/7)	M	Mean Length	545	588	627	580
			Std. Error	-	6	6	-
			Range	545- 545	530- 645	550- 690	580- 580
			Sample Size	1	27	27	1
		F	Mean Length		564	585	
			Std. Error		5	7	
			Range		520- 615	535- 630	
			Sample Size	0	31	15	0
	7/9-12 (7/8-13)	M	Mean Length		603	641	570
			Std. Error		5	9	-
			Range		560- 690	600- 700	570- 570
			Sample Size	0	35	15	1
		F	Mean Length		560	582	
			Std. Error		4	10	
			Range		505- 620	515- 645	
			Sample Size	0	45	13	0
	7/16-17 (7/14-19)	M	Mean Length		584	615	
			Std. Error		4	9	
			Range		510- 650	555- 665	
			Sample Size	0	47	14	0
		F	Mean Length	538	554	564	
			Std. Error	3	2	5	
			Range	535- 540	510- 600	535- 590	
			Sample Size	2	75	11	0

Appendix C.12. Mean length (mm) of Aniak River chum salmon escapement based on samples collected with a beach seine, and abundance estimates based on the use of Bendix (1980 to 1995) and Biosonics (1996 to 2004) sonar equipment . (page 8 of 19)

Year	Sample Dates (Stratum Dates)	Sex		Age Class 0.2	0.3	0.4	0.5
	7/21-22 (7/20-23)	M	Mean Length	546	590	598	
			Std. Error	5	3	10	
			Range	535- 555	540- 655	555- 665	
			Sample Size	4	62	14	0
		F	Mean Length	490	554	559	
			Std. Error	-	2	7	
			Range	490- 490	505- 615	520- 585	
			Sample Size	1	93	8	0
	7/25-27 (7/24-31)	M	Mean Length	572	585	604	
			Std. Error	16	3	12	
			Range	540- 595	530- 635	550- 670	
			Sample Size	3	53	10	0
		F	Mean Length	527	549	550	
			Std. Error	8	2	10	
			Range	500- 560	505- 610	485- 625	
			Sample Size	7	97	19	0
	Season [b]	M	Mean Length	555	592	626	575
			Range	535- 595	510- 690	550- 700	570- 580
			Sample Size	8	224	80	2
		F	Mean Length	527	556	574	
			Range	490- 560	505- 620	485- 645	
			Sample Size	10	341	66	0
2001	7/6-8 No counts	M	Mean Length		602	624	
			Std. Error		4	5	
			Range		530- 650	570- 700	
			Sample Size	0	51	33	0
		F	Mean Length		568	581	
			Std. Error		3	4	
			Range		530- 610	540- 620	
			Sample Size	0	46	29	0
	7/12-14 (7/12-17)	M	Mean Length		591	617	
			Std. Error		4	6	
			Range		510- 650	550- 690	
			Sample Size	0	71	26	0
		F	Mean Length	530	557	567	
			Std. Error	10	3	5	
			Range	520- 540	500- 600	530- 620	
			Sample Size	2	53	27	0

Appendix C.12. Mean length (mm) of Aniak River chum salmon escapement based on samples collected with a beach seine, and abundance estimates based on the use of Bendix (1980 to 1995) and Biosonics (1996 to 2004) sonar equipment . (page 9 of 19)

Year	Sample Dates (Stratum Dates)	Sex		Age Class 0.2	0.3	0.4	0.5
	7/20-21 (7/18-23)	M	Mean Length		593	616	
			Std. Error		3	8	
			Range		520- 650	560- 670	
			Sample Size	0	91	15	0
		F	Mean Length	570	552	564	
			Std. Error	-	4	9	
			Range	570- 570	450- 630	500- 600	
			Sample Size	1	56	11	0
	7/25-28 (7/24-31)	M	Mean Length		582	596	
			Std. Error		3	12	
			Range		520- 660	540- 640	
			Sample Size	0	74	7	0
		F	Mean Length		544	530	
			Std. Error		3	8	
			Range		500- 620	500- 550	
			Sample Size	0	82	5	0
	Season [b]	M	Mean Length		589	614	
			Range		510- 660	540- 700	
			Sample Size	0	287	81	0
		F	Mean Length	543	550	563	
			Range	520- 570	450- 630	500- 620	
			Sample Size	3	237	72	0
2002	6/30,7/1,3 (6/26-7/5)	M	Mean Length	570	601	617	
			Std. Error	-	4	11	
			Range	570- 570	540- 650	580- 770	
			Sample Size	1	40	18	0
		F	Mean Length		567	567	
			Std. Error		6	7	
			Range		520- 640	530- 620	
			Sample Size	0	25	13	0
	7/9 (7/6-11)	M	Mean Length		611	616	
			Std. Error		3	5	
			Range		565- 670	555- 675	
			Sample Size	0	75	27	0
		F	Mean Length	540	569	593	
			Std. Error	-	3	6	
			Range	540- 540	510- 625	540- 640	
			Sample Size	1	51	20	0

Appendix C.12. Mean length (mm) of Aniak River chum salmon escapement based on samples collected with a beach seine, and abundance estimates based on the use of Bendix (1980 to 1995) and Biosonics (1996 to 2004) sonar equipment . (page 10 of 19)

Year	Sample Dates (Stratum Dates)	Sex		Age Class 0.2	0.3	0.4	0.5
	7/14-15 (7/12-17)	M	Mean Length	583	595	616	
			Std. Error	23	3	7	
			Range	560- 605	540- 670	575- 665	
			Sample Size	2	81	16	0
		F	Mean Length	555	567	569	
			Std. Error	-	3	6	
			Range	555- 555	515- 615	545- 605	
			Sample Size	1	74	10	0
	7/20-21 (7/18-23)	M	Mean Length	595	586	597	
			Std. Error	30	4	10	
			Range	565- 625	510- 665	525- 650	
			Sample Size	2	59	10	0
		F	Mean Length	542	556	563	
			Std. Error	10	3	13	
			Range	510- 590	500- 630	500- 625	
			Sample Size	7	87	9	0
	7/26 (7/24-31)	M	Mean Length	549	591	612	
			Std. Error	19	4	17	
			Range	480- 590	515- 690	565- 670	
			Sample Size	5	66	7	0
		F	Mean Length	547	562	551	580
			Std. Error	6	3	8	-
			Range	525- 580	490- 625	505- 590	580- 580
			Sample Size	9	77	11	1
	Season [b]	M	Mean Length	569	598	614	
			Range	480- 625	510- 690	525- 770	
			Sample Size	10	321	78	0
		F	Mean Length	545	564	573	580
			Range	510- 590	490- 640	500- 640	580- 580
			Sample Size	18	314	63	1
2003	6/25,27-28 (6/28-30)	M	Mean Length		606	623	
			Std. Error		8	7	
			Range		530- 685	565- 690	
			Sample Size	0	17	20	0
		F	Mean Length		566	584	
			Std. Error		10	13	
			Range		540- 625	550- 690	
			Sample Size	0	8	10	0

Appendix C.12. Mean length (mm) of Aniak River chum salmon escapement based on samples collected with a beach seine, and abundance estimates based on the use of Bendix (1980 to 1995) and Biosonics (1996 to 2004) sonar equipment . (page 11 of 19)

Year	Sample Dates (Stratum Dates)	Sex		Age Class 0.2	0.3	0.4	0.5
	7/2-4 (7/1-6)	M	Mean Length	540	593	625	625
			Std. Error	-	4	5	22
			Range	540- 540	530- 640	560- 700	565- 670
			Sample Size	1	46	30	4
		F	Mean Length		565	572	
			Std. Error		4	6	
			Range		500- 630	535- 645	
			Sample Size	0	41	19	0
	7/8-9 (7/7-12)	M	Mean Length		601	619	600
			Std. Error		3	5	25
			Range		545- 700	510- 680	555- 640
			Sample Size	0	104	44	3
		F	Mean Length	550	567	584	600
			Std. Error	-	3	6	17
			Range	550- 550	500- 665	525- 665	570- 630
			Sample Size	2	63	24	3
	7/14 (7/13-17)	M	Mean Length	525	604	635	
			Std. Error	-	5	12	
			Range	525- 525	530- 680	575- 730	
			Sample Size	1	57	11	0
		F	Mean Length		563	584	590
			Std. Error		3	5	-
			Range		495- 620	560- 600	590- 590
			Sample Size	0	67	9	1
	7/20 (7/18-24)	M	Mean Length		593	606	
			Std. Error		5	15	
			Range		510- 745	560- 670	
			Sample Size	0	66	7	0
		F	Mean Length		556	572	550
			Std. Error		3	6	-
			Range		505- 625	525- 620	550- 550
			Sample Size	0	91	15	1
	7/26-27 (7/25-31)	M	Mean Length		581	603	
			Std. Error		4	13	
			Range		490- 645	565- 645	
			Sample Size	0	66	6	0
		F	Mean Length		553	560	
			Std. Error		3	9	
			Range		470- 605	535- 600	
			Sample Size	0	86	7	0

Appendix C.12. Mean length (mm) of Aniak River chum salmon escapement based on samples collected with a beach seine, and abundance estimates based on the use of Bendix (1980 to 1995) and Biosonics (1996 to 2004) sonar equipment . (page 12 of 19)

Year	Sample Dates (Stratum Dates)	Sex		Age Class 0.2	0.3	0.4	0.5
	Season [b]	M	Mean Length	531	594	620	614
			Range	525- 540	490- 745	510- 730	555- 670
			Sample Size	2	356	118	7
		F	Mean Length	550	559	575	583
			Range	550- 550	470- 665	525- 690	550- 630
			Sample Size	2	356	84	5
2004	6/28 (6/25-7/2)	M	Mean Length	588	600	625	
			Std. Error	33	5	3	
			Range	555- 620	565- 670	580- 690	
			Sample Size	2	29	77	0
		F	Mean Length	570	579	587	
			Std. Error	16	4	3	
			Range	540- 610	540- 630	545- 635	
			Sample Size	4	27	45	0
	7/4-5 (7/3-8)	M	Mean Length	563	608	626	620
			Std. Error	6	3	4	-
			Range	550- 580	560- 665	570- 675	620- 620
			Sample Size	4	46	39	1
		F	Mean Length	549	581	588	
			Std. Error	7	3	4	
			Range	505- 585	535- 630	535- 630	
			Sample Size	10	47	35	0
	7/10-11 (7/9-13)	M	Mean Length	569	599	612	
			Std. Error	6	3	4	
			Range	520- 620	545- 650	540- 690	
			Sample Size	18	55	53	0
		F	Mean Length	539	575	586	
			Std. Error	7	5	7	
			Range	510- 560	525- 630	530- 630	
			Sample Size	7	29	18	0
	7/16-17 (7/14-19)	M	Mean Length	552	594	629	598
			Std. Error	4	4	4	28
			Range	520- 610	535- 675	560- 665	570- 625
			Sample Size	29	53	27	2
		F	Mean Length	528	567	579	
			Std. Error	5	4	6	
			Range	485- 560	520- 605	525- 625	
			Sample Size	26	36	23	0

Appendix C.12. Mean length (mm) of Aniak River chum salmon escapement based on samples collected with a beach seine, and abundance estimates based on the use of Bendix (1980 to 1995) and Biosonics (1996 to 2004) sonar equipment . (page 13 of 19)

Year	Sample Dates (Stratum Dates)	Sex		Age Class 0.2	0.3	0.4	0.5
	7/22-23	M	Mean Length	552	585	610	
	(7/20 - 25)		Std. Error	4	5	7	
			Range	500- 620	520- 640	540- 710	
			Sample Size	42	36	23	0
		F	Mean Length	529	554	569	
			Std. Error	3	4	8	
			Range	485- 570	480- 620	545- 625	
			Sample Size	32	46	10	0
	7/28-29	M	Mean Length	542	579	604	
	(7/26-31)		Std. Error	5	5	11	
			Range	470- 590	530- 640	510- 650	
			Sample Size	35	36	12	0
		F	Mean Length	517	545	563	
			Std. Error	3	4	6	
			Range	465- 565	485- 600	505- 600	
			Sample Size	61	39	16	0
	Season	M	Mean Length	553	595	620	603
			Range	470- 620	520- 675	510- 710	570- 625
			Sample Size	130	255	231	3
		F	Mean Length	528	566	582	
			Range	465- 610	480- 630	505- 635	
			Sample Size	140	224	147	0
2005	6/23-26	M	Mean Length		588	619	
	(6/22-28)		Std. Error		5	11	
			Range		540- 635	590- 660	
			Sample Size	0	23	6	0
		F	Mean Length		560		
			Std. Error		5		
			Range		510- 595		
			Sample Size	0	17	0	0
	6/30-7/2	M	Mean Length	590	597	609	
	(6/29-7/5)		Std. Error	45	3	8	
			Range	545- 635	520- 665	565- 670	
			Sample Size	2	97	16	0
		F	Mean Length	540	562	576	
			Std. Error	12	3	14	
			Range	520- 575	505- 610	530- 615	
			Sample Size	4	67	5	0

Appendix C.12. Mean length (mm) of Aniak River chum salmon escapement based on samples collected with a beach seine, and abundance estimates based on the use of Bendix (1980 to 1995) and Biosonics (1996 to 2004) sonar equipment . (page 14 of 19)

Year	Sample Dates (Stratum Dates)	Sex		Age Class 0.2	0.3	0.4	0.5
	7/8-9 (7/6-11)	M	Mean Length		587	616	
			Std. Error		3	13	
			Range		515- 675	575- 665	
			Sample Size	0	106	7	0
		F	Mean Length	528	560	583	
			Std. Error	9	4	9	
			Range	500- 560	510- 635	570- 600	
			Sample Size	7	54	3	0
	7/14-15 (7/12-17)	M	Mean Length	545	570	545	
			Std. Error	-	3	-	
			Range	545- 545	515- 625	545- 545	
			Sample Size	1	82	1	0
		F	Mean Length	525	548	545	
			Std. Error	7	3	-	
			Range	445- 550	495- 615	545- 545	
			Sample Size	13	78	1	0
	7/20-21 (7/18-24)	M	Mean Length	563	587	600	635
			Std. Error	8	3	-	-
			Range	555- 570	530- 665	600- 600	635- 635
			Sample Size	2	83	1	1
		F	Mean Length	525	552	608	
			Std. Error	10	3	8	
			Range	465- 555	485- 620	600- 615	
			Sample Size	8	76	2	0
	7/28-29 (7/25-31)	M	Mean Length	508	571	628	
			Std. Error	18	4	8	
			Range	490- 525	480- 635	620- 635	
			Sample Size	2	77	2	0
		F	Mean Length	514	547	538	
			Std. Error	7	4	13	
			Range	480- 550	475- 620	515- 560	
			Sample Size	12	81	3	0
	Season	M	Mean Length	549	581	610	635
			Range	490- 635	480- 675	545- 670	635- 635
			Sample Size	7	468	33	1
		F	Mean Length	524	552	574	
			Range	445- 575	475- 635	515- 615	
			Sample Size	44	373	14	0

Appendix C.12. Mean length (mm) of Aniak River chum salmon escapement based on samples collected with a beach seine, and abundance estimates based on the use of Bendix (1980 to 1995) and Biosonics (1996 to 2004) sonar equipment . (page 15 of 19)

Year	Sample Dates (Stratum Dates)	Sex		Age Class 0.2	0.3	0.4	0.5
2006	7/1-3 (6/26-7/4)	M	Mean Length		587	601	
			Std. Error		13	8	
			Range		550- 645	550- 635	
			Sample Size	0	7	11	0
		F	Mean Length		556	575	
			Std. Error		6	-	
			Range		535- 580	575- 575	
			Sample Size	0	7	1	0
	7/6 (7/5-7)	M	Mean Length		578	597	
			Std. Error		4	11	
			Range		540- 620	520- 655	
			Sample Size	0	28	15	0
		F	Mean Length		557	572	
			Std. Error		7	7	
			Range		530- 605	540- 595	
			Sample Size	0	11	8	0
	7/8-11 (7/8-13)	M	Mean Length		582	609	
			Std. Error		3	5	
			Range		515- 660	555- 660	
			Sample Size	0	75	40	0
		F	Mean Length		556	573	
			Std. Error		5	6	
			Range		510- 595	535- 630	
			Sample Size	0	25	16	0
	7/15-16 (7/14-19)	M	Mean Length		584	602	
			Std. Error		4	5	
			Range		540- 655	530- 670	
			Sample Size	0	59	42	0
		F	Mean Length		561	568	
			Std. Error		3	4	
			Range		510- 620	515- 615	
			Sample Size	0	74	31	0
	7/23-24 (7/20-26)	M	Mean Length	548	581	588	
			Std. Error	3	4	5	
			Range	545- 550	530- 645	510- 655	
			Sample Size	2	57	43	0
		F	Mean Length	508	542	558	
			Std. Error	11	4	4	
			Range	475- 525	480- 610	510- 605	
			Sample Size	4	46	39	0

Appendix C.12. Mean length (mm) of Aniak River chum salmon escapement based on samples collected with a beach seine, and abundance estimates based on the use of Bendix (1980 to 1995) and Biosonics (1996 to 2004) sonar equipment . (page 16 of 19)

Year	Sample Dates (Stratum Dates)	Sex		Age Class 0.2	0.3	0.4	0.5
	7/28 (7/27-31)	M	Mean Length		580	576	
			Std. Error		6	9	
			Range		535- 640	515- 615	
			Sample Size	0	30	12	0
		F	Mean Length	543	556	570	
			Std. Error	18	7	9	
			Range	525- 560	510- 885	520- 640	
			Sample Size	2	49	12	0
	Season	M	Mean Length	548	582	599	
			Range	545- 550	515- 660	510- 670	
			Sample Size	2	256	163	0
		F	Mean Length	518	555	566	
			Range	475- 560	480- 885	510- 640	
			Sample Size	6	212	107	0
2007	7/3,5,7 (6/22-7/8)	M	Mean Length		575	602	581
			Std. Error		4	6	7
			Range		525- 630	545- 680	555- 600
			Sample Size	0	29	37	7
		F	Mean Length	510	559	572	605
			Std. Error	-	3	4	10
			Range	510- 510	495- 625	485- 635	595- 615
			Sample Size	1	68	43	2
	7/10,11,13 (7/9-15)	M	Mean Length		584	594	620
			Std. Error		4	5	-
			Range		520- 640	535- 650	620- 620
			Sample Size	0	50	31	1
		F	Mean Length		561	552	
			Std. Error		4	5	
			Range		500- 665	510- 620	
			Sample Size	0	52	25	0
	7/18-19 (7/16-22)	M	Mean Length		582	591	630
			Std. Error		4	7	-
			Range		520- 670	535- 650	630- 630
			Sample Size	0	51	19	1
		F	Mean Length	535	547	560	
			Std. Error	4	3	4	
			Range	525- 545	500- 600	520- 590	
			Sample Size	5	51	21	0

Appendix C.12. Mean length (mm) of Aniak River chum salmon escapement based on samples collected with a beach seine, and abundance estimates based on the use of Bendix (1980 to 1995) and Biosonics (1996 to 2004) sonar equipment . (page 17 of 19)

Year	Sample Dates (Stratum Dates)	Sex		Age Class 0.2	0.3	0.4	0.5
	7/24,26 (7/23-31)	M	Mean Length	580	573	588	
			Std. Error	-	6	7	
			Range	580- 580	355- 640	540- 650	
			Sample Size	1	49	18	0
		F	Mean Length	544	550	563	568
			Std. Error	9	3	7	18
			Range	510- 565	500- 600	510- 630	550- 585
			Sample Size	6	81	18	2
	Season	M	Mean Length	580	579	594	596
			Range	580- 580	355- 670	535- 680	555- 630
			Sample Size	1	179	105	9
		F	Mean Length	539	554	561	579
			Range	510- 565	495- 665	485- 635	550- 615
			Sample Size	12	252	107	4
2008	7/8,10,14 (6/15-7/15)	M	Mean Length		579	597	635
			Std. Error		7	4	-
			Range		555-632	540-653	635-635
			Sample Size	0	10	58	1
		F	Mean Length		550	568	573
			Std. Error		6	3	9
			Range		520-590	485-615	532-610
			Sample Size	0	13	57	9
	7/16,19,22-23 (7/16-24)	M	Mean Length		574	593	612
			Std. Error		5	4	31
			Range		532-627	525-662	551-650
			Sample Size	0	22	56	3
		F	Mean Length		553	569	556
			SE		4	3	-
			Range		506-590	528-611	556-556
			Sample Size	0	25	57	1
	7/27-28 (7/25-9/20)	M	Mean Length		572	583	600
			Std. Error		5	4	5
			Range		524-654	535-640	584-605
			Sample Size	0	42	36	4
		F	Mean Length		552	553	523
			Std. Error		4	3	16
			Range		500-615	514-602	550-554
			Sample Size	0	42	43	3

Appendix C.12. Mean length (mm) of Aniak River chum salmon escapement based on samples collected with a beach seine, and abundance estimates based on the use of Bendix (1980 to 1995) and Biosonics (1996 to 2004) sonar equipment . (page 18 of 19)

Year	Sample Dates (Stratum Dates)	Sex		Age Class 0.2	0.3	0.4	0.5
	Season[a]	M	Mean Length		574	593	610
			Range		524-654	525-662	551-650
			Sample Size	0	74	150	8
		F	Mean Length		552	565	563
			Range		500-615	485-615	500-610
			Sample Size	0	80	157	13
2009	7/5,7,9,12 (6/15-7/14)	M	Mean Length		591	597	570
			Std. Error		5	6	-
			Range		510- 645	550- 620	570- 570
			Sample Size	0	32	15	1
		F	Mean Length	530	563	557	
			Std. Error	20	5	8	
			Range	510- 550	495- 605	520- 595	
			Sample Size	2	28	13	0
	7/15,17,19,21 (7/15-21)	M	Mean Length	533	592	580	550
			Std. Error	8	4	6	15
			Range	525- 540	535- 645	520- 625	520- 570
			Sample Size	2	55	21	3
		F	Mean Length	551	548	550	
			Std. Error	14	3	7	
			Range	505- 585	465- 610	505- 605	
			Sample Size	5	78	19	0
	7/23,25 (7/22-31)	M	Mean Length	568	583	595	578
			Std. Error	8	3	6	3
			Range	545- 585	500- 635	555- 660	575- 580
			Sample Size	4	65	23	2
		F	Mean Length	533	555	546	530
			Std. Error	14	3	5	.
			Range	490- 575	500- 610	520- 590	530- 530
			Sample Size	6	93	16	1
	Season	M	Mean Length	557	589	592	564
			Range	525- 585	500- 645	520- 660	520- 580
			Sample Size	6	152	59	6
		F	Mean Length	538	555	552	530
			Range	490- 585	465- 610	505- 605	530- 530
			Sample Size	13	199	48	1

Appendix C.12. Mean length (mm) of Aniak River chum salmon escapement based on samples collected with a beach seine, and abundance estimates based on the use of Bendix (1980 to 1995) and Biosonics (1996 to 2004) sonar equipment . (page 19 of 19)

Year	Sample Dates (Stratum Dates)	Sex		Age Class 0.2	0.3	0.4	0.5
	Grand Total [c]	M	Mean Length	558	588	608	599
			Range	445- 635	480- 705	505- 700	530- 640
			Sample size	172	3,624	1,566	46
		F	Mean Length	540	555	569	567
			Range	445- 610	450- 885	475- 665	535- 590
			Sample size	271	3,839	1,278	31

[a] For the 1995 "Season" the mean lengths are weighted by the sample size.

[b] "Season" mean lengths are weighted by the escapement passage in each stratum.

[c] "Grand Total" mean lengths are simple averages of the "Season" mean lengths.

Appendix C.13. Age and sex of Aniak River sonar escapement based on samples collected with a beach seine, and abundance estimates based on the use of Didson sonar equipment. [a] (page 1 of 9)

Year	Sample Dates (Stratum Dates)	Sample Size	Sex	Age Class 0.2 Esc.	0.2 %	0.3 Esc.	0.3 %	0.4 Esc.	0.4 %	0.5 Esc.	0.5 %	Total Esc.	Total %
1984	6/27-7/6	26	M		0.0		46.2		15.4		7.7		69.3
			F		0.0		11.5		15.4		3.8		30.7
			Subtotal		0.0		57.7		30.8		11.5		100.0
	7/7-13	23	M		0.0		56.5		17.4		0.0		73.9
			F		0.0		17.4		8.7		0.0		26.1
			Subtotal		0.0		73.9		26.1		0.0		100.0
	7/14-18	28	M		0.0		50.0		14.3		0.0		64.3
			F		0.0		21.4		14.3		0.0		35.7
			Subtotal		0.0		71.4		28.6		0.0		100.0
	7/20-30	27	M		0.0		44.4		18.5		0.0		63.0
			F		0.0		25.9		11.1		0.0		37.0
			Subtotal		0.0		70.3		29.6		0.0		100.0
	Season [b,c]	104	M		0.0		49.0		16.3		1.9		67.3
			F		0.0		19.2		12.5		1.0		32.7
			Total		0.0		68.3		28.8		2.9		100.0
1985	6/26-7/6	19	M		0.0		0.0		63.2		0.0		63.2
			F		0.0		10.5		26.3		0.0		36.8
			Subtotal		0.0		10.5		89.5		0.0		100.0
	7/7-13	36	M		0.0		8.3		30.6		5.6		44.5
			F		0.0		22.2		33.3		0.0		55.5
			Subtotal		0.0		30.5		63.9		5.6		100.0
	7/14-19	61	M		0.0		24.6		29.5		0.0		54.1
			F		0.0		26.2		19.7		0.0		45.9
			Subtotal		0.0		50.8		49.2		0.0		100.0
	7/20-30	52	M		0.0		25.0		26.9		0.0		51.9
			F		0.0		23.1		25.0		0.0		48.1
			Subtotal		0.0		48.1		51.9		0.0		100.0
	Season [b,c]	168	M		0.0		18.5		32.7		1.2		52.4
			F		0.0		22.6		25.0		0.0		47.6
			Total		0.0		41.1		57.7		1.2		100.0
1989 [b]	7/30	54	M		0.0		31.5		27.8		0.0		59.3
			F		0.0		27.8		13.0		0.0		40.8
			Total		0.0		59.3		40.7		0.0		100.0
1994 [b]	7/25-26	92	M										
			F										
			Total		1.1		77.2		20.7		1.1		100.0

Appendix C.13. Age and sex of Aniak River sonar escapement based on samples collected with a beach seine, and abundance estimates based on the use of Didson sonar equipment. [a] (page 2 of 9)

Year	Sample Dates (Stratum Dates)	Sample Size	Sex	Age Class 0.2 Esc.	0.2 %	0.3 Esc.	0.3 %	0.4 Esc.	0.4 %	0.5 Esc.	0.5 %	Total Esc.	Total %
1995 [d]	7/6-7	46	M		0.0		4.3		39.1		0.0		43.5
			F		0.0		21.7		34.8		0.0		56.5
			Subtotal		0.0		26.1		73.9		0.0		100.0
	7/13,15,17	39	M		2.6		25.6		41.0		0.0		69.2
			F		0.0		12.8		17.9		0.0		30.7
			Subtotal		2.6		38.5		58.9		0.0		100.0
	7/18	47	M		2.1		25.5		17.0		0.0		44.7
			F		4.3		25.5		25.5		0.0		55.3
			Subtotal		6.4		51.0		42.6		0.0		100.0
	7/20-21	62	M		3.2		29.0		14.5		0.0		46.7
			F		9.7		33.9		9.7		0.0		53.3
			Subtotal		12.9		62.9		24.2		0.0		100.0
	7/24-25	50	M		4.0		20.0		16.0		2.0		42.0
			F		2.0		40.0		14.0		2.0		58.0
			Subtotal		6.0		60.0		30.0		4.0		100.0
	Season [b,c]	244	M		2.5		21.3		24.2		0.4		48.4
			F		3.7		27.9		19.7		0.4		51.6
			Total		6.1		49.2		43.9		0.8		100.0
1996	7/1-2	78	M	0	0.0	12,234	17.9	9,612	14.1	1,748	2.6	23,594	34.6
	(6/26-7/3)		F	0	0.0	25,342	37.2	19,225	28.2	0	0.0	44,567	65.4
			Subtotal	0	0.0	37,576	55.1	28,837	42.3	1,748	2.6	68,161	100.0
	7/6-7	35	M	0	0.0	31,580	28.6	18,948	17.1	0	0.0	50,529	45.7
	(7/4-9)		F	0	0.0	34,739	31.4	25,265	22.9	0	0.0	60,003	54.3
			Subtotal	0	0.0	66,319	60.0	44,213	40.0	0	0.0	110,532	100.0
	7/10-11	59	M	0	0.0	5,578	18.6	4,056	13.6	0	0.0	9,634	32.2
	(7/10-13)		F	0	0.0	14,704	49.2	5,578	18.6	0	0.0	20,282	67.8
			Subtotal	0	0.0	20,282	67.8	9,634	32.2	0	0.0	29,916	100.0
	7/16	120	M	0	0.0	14,097	36.7	3,844	10.0	320	0.8	18,262	47.5
	(7/14-18)		F	961	2.5	16,019	41.6	3,204	8.3	0	0.0	20,184	52.5
			Subtotal	961	2.5	30,116	78.3	7,048	18.3	320	0.8	38,446	100.0
	7/19-20	167	M	1,858	1.2	57,597	37.1	11,148	7.2	929	0.6	71,532	46.1
	(7/19-31)		F	5,574	3.6	56,669	36.6	18,580	12.0	2,787	1.8	83,609	53.9
			Subtotal	7,432	4.8	114,266	73.7	29,728	19.2	3,716	2.4	155,141	100.0
	Season [e]	459	M	1,858	0.5	121,086	30.1	47,608	11.8	2,997	0.7	173,551	43.2
			F	6,535	1.6	147,473	36.7	71,852	17.9	2,787	0.7	228,645	56.8
			Total	8,393	2.1	268,559	66.8	119,460	29.7	5,784	1.4	402,196	100.0
1997	6/30,7/2-4	139	M	0	0.0	15,866	22.3	23,032	32.4	512	0.7	39,410	55.4
	(6/26-7/6)		F	512	0.7	17,402	24.5	13,819	19.4	0	0.0	31,732	44.6
			Subtotal	512	0.7	33,268	46.8	36,851	51.8	512	0.7	71,142	100.0

Appendix C.13. Age and sex of Aniak River sonar escapement based on samples collected with a beach seine, and abundance estimates based on the use of Didson sonar equipment. [a] (page 3 of 9)

Year	Sample Dates (Stratum Dates)	Sample Size	Sex	Age Class 0.2 Esc.	0.2 %	0.3 Esc.	0.3 %	0.4 Esc.	0.4 %	0.5 Esc.	0.5 %	Total Esc.	Total %
	7/9-12	169	M	0	0.0	17,242	32.6	10,659	20.1	313	0.6	28,214	53.3
	(7/7-13)		F	313	0.6	17,869	33.7	5,956	11.3	627	1.2	24,766	46.7
			Subtotal	313	0.6	35,111	66.3	16,615	31.4	940	1.8	52,980	100.0
	7/15-16	138	M	548	1.5	12,328	32.6	9,041	23.9	0	0.0	21,917	58.0
	(7/14-18)		F	548	1.4	9,041	23.9	6,301	16.7	0	0.0	15,889	42.0
			Subtotal	1,096	2.9	21,369	56.5	15,342	40.6	0	0.0	37,806	100.0
	7/20	124	M	0	0.0	21,742	37.1	7,090	12.1	0	0.0	28,832	49.2
	(7/19-22)		F	473	0.8	20,324	34.7	8,508	14.5	473	0.8	29,777	50.8
			Subtotal	473	0.8	42,066	71.8	15,598	26.6	473	0.8	58,609	100.0
	7/24	156	M	0	0.0	9,445	32.7	3,889	13.5	0	0.0	13,334	46.2
	(7/23-26)		F	741	2.6	11,482	39.7	3,334	11.5	0	0.0	15,557	53.8
			Subtotal	741	2.6	20,927	72.4	7,223	25.0	0	0.0	28,891	100.0
	7/28	127	M	0	0.0	13,303	33.1	2,217	5.5	0	0.0	15,520	38.6
	(7/27-31)		F	950	2.4	20,271	50.4	3,484	8.7	0	0.0	24,706	61.4
			Subtotal	950	2.4	33,574	83.5	5,701	14.2	0	0.0	40,226	100.0
	Season	853	M	548	0.2	89,927	31.0	55,927	19.3	825	0.3	147,227	50.8
			F	3,537	1.2	96,389	33.3	41,402	14.3	1,100	0.4	142,427	49.2
			Total	4,085	1.4	186,316	64.3	97,329	33.6	1,925	0.7	289,654	100.0
1998	7/1-3	72	M	0	0.0	18,660	44.4	4,082	9.7	0	0.0	22,741	54.2
	(6/26-7/5)		F	0	0.0	16,327	38.9	2,332	5.6	583	1.4	19,243	45.8
			Subtotal	0	0.0	34,987	83.3	6,414	15.3	583	1.4	41,984	100.0
	7/7-8	165	M	0	0.0	25,913	46.1	6,819	12.1	341	0.6	33,073	58.8
	(7/6-12)		F	0	0.0	18,071	32.1	5,115	9.1	0	0.0	23,186	41.2
			Subtotal	0	0.0	43,984	78.2	11,934	21.2	341	0.6	56,259	100.0
	7/15-16	220	M	0	0.0	30,305	45.9	6,901	10.4	0	0.0	37,206	56.4
	(7/13-18)		F	0	0.0	26,104	39.6	2,700	4.1	0	0.0	28,804	43.6
			Subtotal	0	0.0	56,409	85.5	9,601	14.5	0	0.0	66,010	100.0
	7/20	204	M	0	0.0	33,640	41.2	1,602	1.9	400	0.5	35,643	43.6
	(7/19-22)		F	400	0.5	40,449	49.5	5,206	6.4	0	0.0	46,055	56.4
			Subtotal	400	0.5	74,089	90.7	6,808	8.3	400	0.5	81,698	100.0
	7/24-25	210	M	650	1.0	24,047	35.2	2,924	4.3	0	0.0	27,621	40.5
	(7/23-27)		F	0	0.0	38,670	56.7	1,950	2.8	0	0.0	40,620	59.5
			Subtotal	650	1.0	62,717	91.9	4,874	7.1	0	0.0	68,241	100.0
	7/29-30	173	M	0	0.0	12,171	32.3	652	1.8	0	0.0	12,823	34.1
	(7/28-31)		F	0	0.0	23,037	61.3	1,739	4.6	0	0.0	24,776	65.9
			Subtotal	0	0.0	35,208	93.6	2,391	6.4	0	0.0	37,599	100.0
	Season	1,044	M	650	0.2	144,735	41.2	22,981	6.5	742	0.2	169,107	48.1
			F	400	0.1	162,658	46.2	19,042	5.4	583	0.2	182,684	51.9
			Total	1,050	0.3	307,393	87.4	42,023	11.9	1,325	0.4	351,791	100.0

Appendix C.13. Age and sex of Aniak River sonar escapement based on samples collected with a beach seine, and abundance estimates based on the use of Didson sonar equipment. [a] (page 4 of 9)

Year	Sample Dates (Stratum Dates)	Sample Size	Sex	Age Class 0.2 Esc.	0.2 %	0.3 Esc.	0.3 %	0.4 Esc.	0.4 %	0.5 Esc.	0.5 %	Total Esc.	Total %
1999	7/3-6	151	M	0	0.0	6,261	16.5	13,812	36.4	266	0.7	20,339	53.6
	(7/1-8)		F	0	0.0	8,045	21.2	9,562	25.2	0	0.0	17,607	46.4
			Subtotal	0	0.0	14,306	37.7	23,375	61.6	266	0.7	37,946	100.0
	7/10-12	182	M	0	0.0	9,164	23.6	10,679	27.5	0	0.0	16,094	51.1
	(7/9-14)		F	0	0.0	9,824	25.3	9,164	23.6	0	0.0	18,989	48.9
			Subtotal	0	0.0	18,989	48.9	19,843	51.1	0	0.0	38,832	100.0
	7/16-18	175	M	0	0.0	12,446	26.9	8,976	19.4	278	0.6	21,700	46.9
	(7/15-20)		F	278	0.6	15,592	33.7	8,745	18.9	0	0.0	24,568	53.1
			Subtotal	278	0.6	28,038	60.6	17,721	38.3	278	0.6	46,268	100.0
	7/22-23	187	M	0	0.0	15,279	31.0	7,886	16.0	0	0.0	23,214	47.1
	(7/21-25)		F	0	0.0	19,517	39.6	6,604	13.4	0	0.0	26,072	52.9
			Subtotal	0	0.0	34,796	70.6	14,490	29.4	0	0.0	49,286	100.0
	7/27-29	192	M	0	0.0	11,198	26.6	6,357	15.1	210	0.5	17,765	42.2
	(7/26-8/3)		F	0	0.0	17,092	40.6	7,241	17.2	0	0.0	24,333	57.8
			Subtotal	0	0.0	28,290	67.2	13,598	32.3	210	0.5	42,098	100.0
	Season	887	M	0	0.0	55,323	25.8	45,245	21.1	643	0.3	101,211	47.2
			F	214	0.1	72,477	33.8	40,313	18.8	0	0.0	113,219	52.8
			Total	214	0.1	127,800	59.6	85,558	39.9	643	0.3	214,430	100.0
2000	6/29-7/6	80	M	0	0.0	9,434	23.8	12,909	32.5	497	1.3	22,839	57.5
	(6/26-7/7)		F	0	0.0	9,930	25.0	6,951	17.5	0	0.0	16,881	42.5
			Subtotal	0	0.0	19,364	48.8	19,860	50.0	497	1.3	39,720	100.0
	7/9-12	109	M	0	0.0	16,406	32.1	7,031	13.8	469	0.9	23,906	46.8
	(7/8-13)		F	0	0.0	21,093	41.3	6,094	11.9	0	0.0	27,187	53.2
			Subtotal	0	0.0	37,499	73.4	13,125	25.7	469	0.9	51,093	100.0
	7/16-17	171	M	168	0.6	9,249	32.2	2,522	8.8	0	0.0	11,939	41.5
	(7/14-19)		F	336	1.2	14,461	50.3	2,018	7.0	0	0.0	16,816	58.5
			Subtotal	504	1.8	23,710	82.5	4,540	15.8	0	0.0	28,755	100.0
	7/21-22	182	M	554	2.2	8,577	34.1	1,937	7.7	0	0.0	11,067	44.0
	(7/20-23)		F	138	0.5	12,865	51.1	1,106	4.4	0	0.0	14,110	56.0
			Subtotal	692	2.7	21,442	85.2	3,043	12.1	0	0.0	25,177	100.0
	7/25-27	189	M	518	1.6	9,152	28.1	1,727	5.3	0	0.0	11,397	34.9
	(7/24-31)		F	1,209	3.7	16,751	51.3	3,281	10.0	0	0.0	21,241	65.1
			Subtotal	1,727	5.3	25,903	79.4	5,008	15.3	0	0.0	32,638	100.0
	Season	731	M	1,240	0.7	52,817	29.8	26,126	14.7	965	0.5	81,148	45.7
			F	1,683	0.9	75,101	42.3	19,450	11.0	0	0.0	96,235	54.3
			Total	2,923	1.6	127,918	72.1	45,576	25.7	965	0.5	177,383	100.0
2001	7/6-8	170	M	0	0.0	35,262	30.6	23,735	20.6	0	0.0	58,997	51.2
	(6/26-7/9)		F	0	0.0	33,228	28.8	23,056	20.0	0	0.0	56,284	48.8
			Subtotal	0	0.0	68,490	59.4	46,791	40.6	0	0.0	115,281	100.0

Appendix C.13. Age and sex of Aniak River sonar escapement based on samples collected with a beach seine, and abundance estimates based on the use of Didson sonar equipment. [a] (page 5 of 9)

Year	Sample Dates (Stratum Dates)	Sample Size	Sex	Age Class 0.2 Esc.	0.2 %	0.3 Esc.	0.3 %	0.4 Esc.	0.4 %	0.5 Esc.	0.5 %	Total Esc.	Total %
	7/12-14	233	M	0	0.0	40,124	33.9	18,792	15.9	0	0.0	58,917	49.8
	(7/10-17)		F	1,016	0.9	35,553	30.0	22,856	19.3	0	0.0	59,424	50.2
			Subtotal	1,016	0.9	75,677	63.9	41,648	35.2	0	0.0	118,341	100.0
	7/20-21	299	M	0	0.0	39,005	40.1	8,451	8.7	0	0.0	47,456	48.8
	(7/18-23)		F	650	0.7	32,179	33.1	16,902	17.4	0	0.0	49,731	51.2
			Subtotal	650	0.7	71,184	73.2	25,353	26.1	0	0.0	97,187	100.0
	7/20-21	235	M	0	0.0	28,884	37.0	6,308	8.1	0	0.0	35,192	45.1
	(7/18-23)		F	0	0.0	36,189	46.4	6,640	8.5	0	0.0	42,829	54.9
			Subtotal	0	0.0	65,073	83.4	12,948	16.6	0	0.0	78,021	100.0
	Season	937	M	0	0.0	143,276	35.0	57,286	14.0	0	0.0	200,562	49.1
			F	1,666	0.4	137,148	33.6	69,454	17.0	0	0.0	208,268	50.9
			Total	1,666	0.4	280,424	68.6	126,740	31.0	0	0.0	408,830	100.0
2002	6/30-7/1,3	97	M	1,230	1.0	49,203	41.2	22,142	18.6	0	0.0	72,575	60.8
	(6/26-7/5)		F	0	0.0	30,752	25.8	15,991	13.4	0	0.0	46,743	39.2
			Subtotal	1,230	1.0	79,955	67.0	38,133	32.0	0	0.0	119,318	100.0
	7/9	174	M	0	0.0	43,837	43.1	15,781	15.5	0	0.0	59,618	58.6
	(7/6-11)		F	584	0.6	29,809	29.3	11,690	11.5	0	0.0	42,084	41.4
			Subtotal	584	0.6	73,646	72.4	27,471	27.0	0	0.0	101,702	100.0
	7/14-15	184	M	1,171	1.1	47,439	44.0	9,371	8.7	0	0.0	57,981	53.8
	(7/12-17)		F	586	0.5	43,340	40.2	5,856	5.4	0	0.0	49,782	46.2
			Subtotal	1,757	1.6	90,779	84.2	15,227	14.1	0	0.0	107,763	100.0
	7/20-21	174	M	836	1.2	24,669	33.9	4,181	5.7	0	0.0	29,687	40.8
	(7/18-23)		F	2,927	4.0	36,377	50.0	3,763	5.2	0	0.0	43,066	59.2
			Subtotal	3,763	5.2	61,046	83.9	7,944	10.9	0	0.0	72,753	100.0
	7/26	176	M	2,012	2.9	26,554	37.5	2,816	4.0	0	0.0	31,382	44.3
	(7/24-31)		F	3,621	5.1	30,979	43.8	4,426	6.2	402	0.6	39,428	55.7
			Subtotal	5,633	8.0	57,533	81.3	7,242	10.2	402	0.6	70,810	100.0
	Season	805	M	5,249	1.1	191,702	40.6	54,291	11.5	0	0.0	251,243	53.2
			F	7,718	1.6	171,257	36.2	41,726	8.8	402	0.1	221,103	46.8
			Total	12,967	2.7	362,959	76.8	96,017	20.3	402	0.1	472,346	100.0
2003	6/26-28	55	M	0	0.0	6,316	30.9	7,431	36.3	0	0.0	13,747	67.3
	(6/26-30)		F	0	0.0	2,973	14.6	3,715	18.2	0	0.0	6,688	32.7
			Subtotal	0	0.0	9,289	45.5	11,146	54.5	0	0.0	20,435	100.0
	7/2-4	141	M	364	0.7	16,735	32.6	10,914	21.3	1,455	2.8	29,468	57.4
	(7/1-6)		F	0	0.0	14,916	29.1	6,913	13.5	0	0.0	21,829	42.6
			Subtotal	364	0.7	31,651	61.7	17,827	34.8	1,455	2.8	51,297	100.0
	7/8-9	243	M	0	0.0	37,955	42.8	16,058	18.1	1,095	1.3	55,108	62.1
	(7/7-12)		F	730	0.8	22,992	25.9	8,759	9.9	1,095	1.2	33,576	37.9
			Subtotal	730	0.8	60,947	68.7	24,817	28.0	2,190	2.5	88,684	100.0

Appendix C.13. Age and sex of Aniak River sonar escapement based on samples collected with a beach seine, and abundance estimates based on the use of Didson sonar equipment. [a] (page 6 of 9)

Year	Sample Dates (Stratum Dates)	Sample Size	Sex	Age Class 0.2 Esc.	0.2 %	0.3 Esc.	0.3 %	0.4 Esc.	0.4 %	0.5 Esc.	0.5 %	Total Esc.	Total %
	7/14	146	M	598	0.7	34,058	39.0	6,573	7.5	0	0.0	41,228	47.3
	(7/13-17)		F	0	0.0	40,033	45.9	5,377	6.2	598	0.7	46,008	52.7
			Subtotal	598	0.7	74,091	84.9	11,950	13.7	598	0.7	87,236	100.0
	7/20-21	180	M	0	0.0	46,029	36.7	4,882	3.9	0	0.0	50,911	40.6
	(7/18-24)		F	0	0.0	63,465	50.5	10,461	8.3	697	0.6	74,623	59.4
			Subtotal	0	0.0	109,494	87.2	15,343	12.2	697	0.6	125,534	100.0
	7/26-27	165	M	0	0.0	41,743	40.0	3,795	3.6	0	0.0	45,538	43.6
	(7/25-31)		F	0	0.0	54,393	52.1	4,427	4.3	0	0.0	58,820	56.4
			Subtotal	0	0.0	96,136	92.1	8,222	7.9	0	0.0	104,358	100.0
	Season	930	M	961	0.2	182,837	38.3	49,652	10.4	2,550	0.5	236,001	49.4
			F	730	0.2	198,771	41.6	39,653	8.3	2,390	0.5	241,543	50.6
			Total	1,691	0.4	381,608	79.9	89,305	18.7	4,940	1.0	477,544	100.0
2004	6/28-30	184	M	907	1.1	13,158	15.7	34,935	41.8	0	0.0	49,000	58.7
	(6/25-7/2)		F	1,815	2.2	12,250	14.7	20,417	24.5	0	0.0	34,482	41.3
			Subtotal	2,722	3.3	25,408	30.4	55,352	66.3	0	0.0	83,482	100.0
	7/4-5	182	M	2,159	2.2	24,824	25.3	21,046	21.4	540	0.5	48,568	49.5
	(7/3-8)		F	5,396	5.5	25,363	25.8	18,888	19.3	0	0.0	49,648	50.5
			Subtotal	7,555	7.7	50,187	51.1	39,934	40.7	540	0.5	98,216	100.0
	7/10-11	180	M	11,545	10.0	35,277	30.6	33,994	29.4	0	0.0	80,816	70.0
	(7/9-13)		F	4,490	3.9	18,600	16.1	11,545	10.0	0	0.0	34,635	30.0
			Subtotal	16,035	13.9	53,877	46.7	45,539	39.4	0	0.0	115,451	100.0
	7/16-17	196	M	22,317	14.8	40,786	27.0	20,778	13.8	1,539	1.0	85,420	56.6
	(7/14-19)		F	20,008	13.3	27,704	18.4	17,700	11.7	0	0.0	65,412	43.4
			Subtotal	42,325	28.1	68,490	45.4	38,478	25.5	1,539	1.0	150,832	100.0
	7/22-23	189	M	31,056	22.2	26,620	19.1	17,007	12.2	0	0.0	74,683	53.4
	(7/20-25)		F	23,662	17.0	34,014	24.3	7,394	5.3	0	0.0	65,071	46.6
			Subtotal	54,718	39.2	60,634	43.4	24,401	17.5	0	0.0	139,754	100.0
	7/28-29	199	M	14,984	17.6	15,412	18.1	5,137	6.0	0	0.0	35,534	41.7
	(7/26-31)		F	26,116	30.6	16,697	19.6	6,850	8.1	0	0.0	49,662	58.3
			Subtotal	41,100	48.2	32,109	37.7	11,987	14.1	0	0.0	85,196	100.0
	Season	1,130	M	82,969	12.3	156,076	23.2	132,898	19.8	2,079	0.3	374,022	55.6
			F	81,487	12.1	134,629	20.0	82,794	12.3	0	0.0	298,909	44.4
			Total	164,456	24.4	290,705	43.2	215,692	32.1	2,079	0.3	672,931	100.0
2005	6/23-26	46	M	0	0.0	8,236	50.0	2,148	13.0	0	0.0	10,384	63.0
	(6/22-28)		F	0	0.0	6,087	37.0	0	0.0	0	0.0	6,087	37.0
			Subtotal	0	0.0	14,323	87.0	2,148	13.0	0	0.0	16,471	100.0
	6/30-7/2	191	M	1,129	1.0	54,760	50.8	9,032	8.4	0	0.0	64,921	60.2
	(6/29-7/5)		F	2,258	2.1	37,824	35.1	2,823	2.6	0	0.0	42,905	39.8
			Subtotal	3,387	3.1	92,584	85.9	11,855	11.0	0	0.0	107,826	100.0

Appendix C.13. Age and sex of Aniak River sonar escapement based on samples collected with a beach seine, and abundance estimates based on the use of Didson sonar equipment. [a] (page 7 of 9)

Year	Sample Dates (Stratum Dates)	Sample Size	Sex	Age Class 0.2 Esc.	0.2 %	0.3 Esc.	0.3 %	0.4 Esc.	0.4 %	0.5 Esc.	0.5 %	Total Esc.	Total %
	7/8-9	177	M	0	0.0	134,680	59.9	8,894	3.9	0	0.0	143,574	63.8
	(7/6-11)		F	8,894	4.0	68,611	30.5	3,812	1.7	0	0.0	81,317	36.2
			Subtotal	8,894	4.0	203,291	90.4	12,706	5.6	0	0.0	224,891	100.0
	7/14-15	178	M	1,645	0.6	134,882	46.6	1,645	0.6	0	0.0	138,171	47.7
	(7/12-17)		F	21,384	7.4	128,302	44.3	1,645	0.5	0	0.0	151,331	52.3
			Subtotal	23,029	8.0	263,184	90.9	3,290	1.1	0	0.0	289,502	100.0
	7/20-21	174	M	3,722	1.2	154,462	48.0	1,861	0.6	1,861	0.6	161,906	50.3
	(7/18-24)		F	14,888	4.6	141,436	43.9	3,722	1.1	0	0.0	160,046	49.7
			Subtotal	18,610	5.8	295,898	91.9	5,583	1.7	1,861	0.6	321,952	100.0
	7/28-29	177	M	2,157	1.1	83,031	43.5	2,157	1.1	0	0.0	87,344	45.8
	(7/25-31)		F	12,940	6.8	87,344	45.8	3,235	1.7	0	0.0	103,519	54.2
			Subtotal	15,097	7.9	170,375	89.3	5,392	2.8	0	0.0	190,863	100.0
	Season	943	M	8,613	0.8	571,124	49.6	25,708	2.3	1,850	0.2	607,296	52.7
			F	60,038	5.2	468,976	40.7	15,197	1.3	0	0.0	544,209	47.3
			Total	68,651	6.0	1,040,100	90.3	40,905	3.6	1,850	0.2	1,151,505	100.0
2006	7/1-3	26	M	0	0.0	48,807	26.9	76,697	42.3	0	0.0	125,504	69.2
	(6/26-7/4)		F	0	0.0	48,807	26.9	6,972	3.9	0	0.0	55,779	30.8
			Subtotal	0	0.0	97,614	53.8	83,669	46.2	0	0.0	181,283	100.0
	7/6	62	M	0	0.0	62,119	45.2	33,278	24.2	0	0.0	95,397	69.4
	(7/5-7)		F	0	0.0	24,404	17.7	17,748	12.9	0	0.0	42,152	30.6
			Subtotal	0	0.0	86,523	62.9	51,026	37.1	0	0.0	137,549	100.0
	7/8-11	156	M	0	0.0	107,752	48.1	57,468	25.6	0	0.0	165,220	73.7
	(7/8-13)		F	0	0.0	35,917	16.0	22,987	10.3	0	0.0	58,904	26.3
			Subtotal	0	0.0	143,669	64.1	80,455	35.9	0	0.0	224,124	100.0
	7/15-16	206	M	0	0.0	68,368	28.7	48,669	20.4	0	0.0	117,036	49.0
	(7/14-19)		F	0	0.0	85,749	35.9	35,922	15.0	0	0.0	121,672	51.0
			Subtotal	0	0.0	154,117	64.6	84,591	35.4	0	0.0	238,708	100.0
	7/23-24	191	M	2,363	1.0	67,350	29.8	50,808	22.5	0	0.0	120,522	53.4
	(7/20-26)		F	4,726	2.1	54,352	24.1	46,081	20.4	0	0.0	105,160	46.6
			Subtotal	7,089	3.1	121,702	53.9	96,889	42.9	0	0.0	225,682	100.0
	7/28	105	M	0	0.0	28,937	28.6	11,575	11.5	0	0.0	40,512	40.0
	(7/27-31)		F	1,929	1.9	47,264	46.6	11,575	11.4	0	0.0	60,768	60.0
			Subtotal	1,929	1.9	76,201	75.2	23,150	22.9	0	0.0	101,280	100.0
	Season	746	M	2,363	0.2	383,333	34.6	278,494	25.1	0	0.0	664,190	59.9
			F	6,656	0.6	296,494	26.7	141,286	12.8	0	0.0	444,436	40.1
			Total	9,019	0.8	679,827	61.3	419,780	37.9	0	0.0	1,108,626	100.0
2007	7/3,5,7	187	M	0	0.0	17,520	15.5	22,353	19.8	4,229	3.7	44,102	39.0
	(6/22-7/8)		F	604	0.5	41,081	36.4	25,978	23.0	1,208	1.1	68,871	61.0
			Subtotal	604	0.5	58,601	51.9	48,331	42.8	5,437	4.8	112,973	100.0

Appendix C.13. Age and sex of Aniak River sonar escapement based on samples collected with a beach seine, and abundance estimates based on the use of Didson sonar equipment. [a] (page 8 of 9)

Year	Sample Dates (Stratum Dates)	Sample Size	Sex	Age Class 0.2 Esc.	0.2 %	0.3 Esc.	0.3 %	0.4 Esc.	0.4 %	0.5 Esc.	0.5 %	Total Esc.	Total %
	7/10,11,13	159	M	0	0.0	62,736	31.5	38,897	19.5	1,255	0.6	102,888	51.6
	(7/9-15)		F	0	0.0	65,246	32.7	31,368	15.7	0	0.0	96,614	48.4
			Subtotal	0	0.0	127,982	64.2	70,265	35.2	1,255	0.6	199,502	100.0
	7/18-19	148	M	0	0.0	50,950	34.5	18,981	12.8	999	0.7	70,930	48.0
	(7/16-22)		F	4,995	3.4	50,949	34.4	20,980	14.2	0	0.0	76,924	52.0
			Subtotal	4,995	3.4	101,899	68.9	39,961	27.0	999	0.7	147,854	100.0
	7/24,26	175	M	1,365	0.6	66,878	28.0	24,568	10.3	0	0.0	92,810	38.9
	(7/23-31)		F	8,189	3.4	110,553	46.3	24,567	10.3	2,730	1.1	146,040	61.1
			Subtotal	9,554	4.0	177,431	74.3	49,135	20.6	2,730	1.1	238,850	100.0
	Season	669	M	1,365	0.2	198,084	28.3	104,798	15.0	6,483	0.9	310,730	44.4
			F	13,788	2.0	267,830	38.3	102,893	14.7	3,938	0.6	388,449	55.6
			Total	15,153	2.2	465,914	66.6	207,691	29.7	10,421	1.5	699,179	100.0
2008	7/8,10,14	149	M	0	0.0	10,001	6.7	58,005	39.0	1,000	0.7	69,006	46.3
	(6/15-7/15)		F	0	0.0	13,001	8.7	58,004	38.9	9,001	6.0	80,006	53.7
			Subtotal	0	0.0	23,002	15.4	116,009	77.9	10,001	6.7	149,012	100.0
	7/16,19,22-23	164	M	0	0.0	21,488	13.4	54,697	34.1	2,930	1.8	79,115	49.4
	(7/16-24)		F	0	0.0	24,418	15.3	55,674	34.8	977	0.6	81,069	50.6
			Subtotal	0	0.0	45,906	28.7	110,371	68.9	3,907	2.4	160,184	100.0
	7/27-28	171	M	0	0.0	29,158	24.6	24,993	21.1	2,777	2.3	56,928	48.0
	(7/25-9/20)		F	0	0.0	29,158	24.5	30,546	25.7	2,083	1.8	61,787	52.0
			Subtotal	0	0.0	58,316	49.1	55,539	46.8	4,860	4.1	118,715	100.0
	Season	484	M	0	0.0	60,647	14.2	137,694	32.2	6,707	1.6	205,048	47.9
			F	0	0.0	66,577	15.5	144,225	33.7	12,060	2.8	222,863	52.1
			Total	0	0.0	127,244	29.7	281,919	65.9	18,767	4.4	427,911	100.0
2009	7/5,7,9,12	91	M	0	0.0	57,240	35.1	26,831	16.5	1,789	1.1	85,860	52.7
	(6/15-7/14)		F	3,577	2.2	50,085	30.8	23,254	14.3	0	0.0	76,916	47.3
			Subtotal	3,577	2.2	107,325	65.9	50,085	30.8	1,789	1.1	162,776	100.0
	7/15,17,19,21	183	M	1,524	1.1	41,929	30.1	16,009	11.5	2,287	1.6	61,751	44.3
	(7/15-21)		F	3,812	2.7	59,464	42.6	14,485	10.4	0	0.0	77,760	55.7
			Subtotal	5,336	3.8	101,393	72.7	30,494	21.9	2,287	1.6	139,511	100.0
	7/23,25	210	M	3,376	1.9	54,861	30.9	19,413	11.0	1,688	0.9	79,337	44.8
	(7/22-31)		F	5,064	2.9	78,493	44.3	13,504	7.6	844	0.5	97,906	55.2
			Subtotal	8,440	4.8	133,354	75.2	32,917	18.6	2,532	1.4	177,243	100.0
	Season	484	M	4,901	1.0	154,030	32.1	62,253	13.0	5,764	1.2	226,948	47.3
			F	12,453	2.6	188,042	39.2	51,243	10.7	844	0.2	252,582	52.7
			Total	17,354	3.6	342,072	71.3	113,496	23.7	6,608	1.4	479,530	100.0

Appendix C.13. Age and sex of Aniak River sonar escapement based on samples collected with a beach seine, and abundance estimates based on the use of Didson sonar equipment. [a] (page 9 of 9)

Year	Sample Dates (Stratum Dates)	Sample Size	Sex	Age Class 0.2 Esc.	0.2 %	0.3 Esc.	0.3 %	0.4 Esc.	0.4 %	0.5 Esc.	0.5 %	Total Esc.	Total %
	Grand Total [f]	11,102	M	110,717	1.5	2,504,997	34.2	1,100,961	15.0	31,605	0.4	3,748,284	51.1
			F	196,905	2.7	2,483,822	33.9	880,530	12.0	24,104	0.3	3,585,572	48.9
			Total	307,622	4.2	4,988,839	68.0	1,981,491	27.0	55,709	0.8	7,333,856	100.0

[a] Use of DIDSON sonar equipment began in 2004, but annual abundance estimates from prior to 2004 have been converted to "DIDSON equivalents" (Molyneaux and Brannian 2007).

[b] Sampling dates do not meet criteria for estimating escapement percentages for some or all of the strata.

[c] For the season summary the percentages are weighted by sample size rather than estimated abundance.

[d] Escapement estimates are not available for 1995.

[e] The number of fish in "Season" summaries are the strata sums; "Season" percentages are derived from the sums.

[f] The number of fish in the "Grand total" are the sum of the "Season" totals; percentages are derived from those sums.

Appendix C.14. Mean length (mm) of Aniak River chum salmon escapement based on samples collected with a beach seine, and abundance estimates based on the use of Didson sonar equipment. [a] (page 1 of 19)

Year	Sample Dates (Stratum Dates)	Sex		Age Class 0.2	0.3	0.4	0.5
1995	7/6-7	M	Mean Length		615	576	
			Std. Error		5	7	
			Range		610- 620	540- 640	
			Sample Size	0	2	18	0
		F	Mean Length		553	552	
			Std. Error		12	6	
			Range		500- 625	505- 595	
			Sample Size	0	10	16	0
	7/13-17	M	Mean Length	540	562	576	
			Std. Error	-	11	7	
			Range	540- 540	510- 610	540- 630	
			Sample Size	1	10	16	0
		F	Mean Length		543	551	
			Std. Error		18	6	
			Range		500- 600	535- 575	
			Sample Size	0	5	7	0
	7/18	M	Mean Length	520	560	593	
			Std. Error	-	8	9	
			Range	520- 520	515- 605	575- 640	
			Sample Size	1	12	8	0
		F	Mean Length	513	543	549	
			Std. Error	8	10	8	
			Range	505- 520	500- 625	510- 600	
			Sample Size	2	12	12	0
	7/20-21	M	Mean Length	518	584	583	
			Std. Error	13	6	13	
			Range	505- 530	545- 645	525- 630	
			Sample Size	2	18	9	0
		F	Mean Length	530	541	564	
			Std. Error	14	5	10	
			Range	475- 575	485- 575	530- 590	
			Sample Size	6	10	6	0
	7/24-25	M	Mean Length	533	563	598	580
			Std. Error	3	9	10	-
			Range	530- 535	525- 610	550- 630	580- 580
			Sample Size	2	10	8	1
		F	Mean Length	550	538	566	585
			Std. Error	-	6	8	-
			Range	550- 550	495- 580	530- 585	585- 585
			Sample Size	1	20	7	1

Appendix C.14. Mean length (mm) of Aniak River chum salmon escapement based on samples collected with a beach seine, and abundance estimates based on the use of Didson sonar equipment. [a] (page 2 of 19)

Year	Sample Dates (Stratum Dates)	Sex		Age Class 0.2	0.3	0.4	0.5
	Season [b]	M	Mean Length	527	571	582	580
			Range	505- 540	505- 645	525- 640	580- 580
			Sample size	6	52	59	1
		F	Mean Length	528	543	555	585
			Range	475- 575	485- 625	505- 600	585- 585
			Sample size	9	57	48	1
1996	7/1-2 (6/26-7/3)	M	Mean Length		608	624	635
			Std. Error		7	8	5
			Range		555- 640	565- 675	630- 640
			Sample Size	0	14	11	2
		F	Mean Length		576	596	
			Std. Error		5	6	
			Range		525- 670	540- 650	
			Sample Size	0	29	22	0
	7/6-7 (7/4-9)	M	Mean Length		610	626	
			Std. Error		9	11	
			Range		570- 675	605- 680	
			Sample Size	0	10	6	0
		F	Mean Length		572	578	
			Std. Error		6	11	
			Range		540- 605	540- 625	
			Sample Size	0	11	8	0
	7/10-11 (7/10-13)	M	Mean Length		614	634	
			Std. Error		9	10	
			Range		550- 650	590- 685	
			Sample Size	0	11	8	0
		F	Mean Length		575	577	
			Std. Error		5	6	
			Range		500- 640	550- 610	
			Sample Size	0	29	11	0
	7/16 (7/14-18)	M	Mean Length		591	607	580
			Std. Error		4	7	-
			Range		530- 655	575- 650	580- 580
			Sample Size	0	44	12	1
		F	Mean Length	553	548	568	
			Std. Error	9	3	7	
			Range	540- 570	470- 595	535- 595	
			Sample Size	3	50	10	0

Appendix C.14. Mean length (mm) of Aniak River chum salmon escapement based on samples collected with a beach seine, and abundance estimates based on the use of Didson sonar equipment. [a] (page 3 of 19)

Year	Sample Dates (Stratum Dates)	Sex		Age Class 0.2	0.3	0.4	0.5
	7/19-20 (7/19-31)	M	Mean Length	575	593	591	610
			Std. Error	10	3	10	-
			Range	565- 585	540- 645	550- 640	610- 610
			Sample Size	2	62	12	1
		F	Mean Length	552	548	560	563
			Std. Error	17	3	5	16
			Range	495- 610	480- 630	505- 590	535- 590
			Sample Size	6	61	20	3
	Season	M	Mean Length	575	599	616	621
			Range	565- 585	530- 675	550- 685	580- 640
			Sample Size	2	141	49	4
		F	Mean Length	552	561	578	563
			Range	495- 610	470- 670	505- 650	535- 590
			Sample Size	9	180	71	3
1997	6/30,7/2-4 (6/26-7/6)	M	Mean Length		607	621	630
			Std. Error		6	4	-
			Range		505- 665	555- 695	630- 630
			Sample Size	0	31	45	1
		F	Mean Length	545	557	580	
			Std. Error	-	6	5	
			Range	545- 545	505- 620	545- 665	
			Sample Size	1	34	26	0
	7/9-12 (7/7-13)	M	Mean Length		598	612	610
			Std. Error		4	6	-
			Range		510- 705	535- 695	610- 610
			Sample Size	0	55	34	1
		F	Mean Length	500	553	574	540
			Std. Error	-	5	5	30
			Range	500- 500	495- 670	535- 645	510- 570
			Sample Size	1	57	19	2
	7/15-16 (7/14-18)	M	Mean Length	553	585	609	
			Std. Error	23	4	6	
			Range	530- 575	515- 650	530- 690	
			Sample Size	2	45	33	0
		F	Mean Length	525	553	566	
			Std. Error	15	5	5	
			Range	510- 540	500- 610	500- 615	
			Sample Size	2	33	23	0

Appendix C.14. Mean length (mm) of Aniak River chum salmon escapement based on samples collected with a beach seine, and abundance estimates based on the use of Didson sonar equipment. [a] (page 4 of 19)

Year	Sample Dates (Stratum Dates)	Sex		Age Class 0.2	0.3	0.4	0.5
	7/20 (7/19-22)	M	Mean Length		576	609	
			Std. Error		5	8	
			Range		510- 695	555- 665	
			Sample Size	0	45	15	0
		F	Mean Length	570	539	547	575
			Std. Error	-	5	6	-
			Range	570- 570	485- 640	475- 590	575- 575
			Sample Size	1	42	18	1
	7/24 (7/23-26)	M	Mean Length		575	609	
			Std. Error		4	7	
			Range		535- 635	560- 665	
			Sample Size	0	51	21	0
		F	Mean Length	541	542	569	
			Std. Error	7	3	5	
			Range	525- 555	495- 590	525- 595	
			Sample Size	4	61	18	0
	7/28 (7/27-31)	M	Mean Length		571	605	
			Std. Error		4	16	
			Range		515- 630	525- 650	
			Sample Size	0	42	7	0
		F	Mean Length	513	537	567	
			Std. Error	17	3	9	
			Range	480- 530	485- 600	510- 610	
			Sample Size	3	64	11	0
	Season	M	Mean Length	553	586	615	622
			Range	530- 575	505- 705	525- 695	610- 630
			Sample Size	2	269	155	2
		F	Mean Length	532	546	568	555
			Range	480- 570	485- 670	475- 665	510- 575
			Sample Size	12	291	115	3
1998	7/1-3 (6/26-7/5)	M	Mean Length		588	579	
			Std. Error		5	11	
			Range		540- 675	545- 630	
			Sample Size	0	32	7	0
		F	Mean Length		556	546	580
			Std. Error		4	11	-
			Range		495- 590	525- 575	580- 580
			Sample Size	0	28	4	1

Appendix C.14. Mean length (mm) of Aniak River chum salmon escapement based on samples collected with a beach seine, and abundance estimates based on the use of Didson sonar equipment. [a] (page 5 of 19)

Year	Sample Dates (Stratum Dates)	Sex		Age Class 0.2	0.3	0.4	0.5
	7/7-8 (7/6-12)	M	Mean Length		584	591	530
			Std. Error		3	5	-
			Range		535- 665	550- 635	530- 530
			Sample Size	0	76	20	1
		F	Mean Length		548	569	
			Std. Error		3	6	
			Range		505- 595	530- 610	
			Sample Size	0	53	15	0
	7/15-16 (7/13-18)	M	Mean Length		591	603	
			Std. Error		3	7	
			Range		515- 680	540- 690	
			Sample Size	0	101	23	0
		F	Mean Length		559	569	
			Std. Error		2	6	
			Range		520- 620	535- 590	
			Sample Size	0	87	9	0
	7/20 (7/19-22)	M	Mean Length		587	630	
			Std. Error		3	18	
			Range		530- 670	595- 680	
			Sample Size	0	79	4	0
		F	Mean Length	550	548	564	
			Std. Error	-	3	9	
			Range	550- 550	495- 620	520- 610	
			Sample Size	1	98	13	0
	7/24-25 (7/23-27)	M	Mean Length	565	580	587	
			Std. Error	-	3	13	
			Range	565- 565	525- 655	545- 660	
			Sample Size	2	74	9	0
		F	Mean Length		549	552	
			Std. Error		2	7	
			Range		480- 605	530- 575	
			Sample Size	0	119	6	0
	7/29-30 (7/28-31)	M	Mean Length		570	582	
			Std. Error		4	6	
			Range		500- 670	570- 590	
			Sample Size	0	56	3	0
		F	Mean Length		543	562	
			Std. Error		3	16	
			Range		470- 660	490- 655	
			Sample Size	0	106	8	0

Appendix C.14. Mean length (mm) of Aniak River chum salmon escapement based on samples collected with a beach seine, and abundance estimates based on the use of Didson sonar equipment. [a] (page 6 of 19)

Year	Sample Dates (Stratum Dates)	Sex		Age Class 0.2	0.3	0.4	0.5
	Season	M	Mean Length	565	585	594	530
			Range	565- 565	500- 680	540- 690	530- 530
			Sample Size	2	418	66	1
		F	Mean Length	550	550	562	580
			Range	550- 550	470- 660	490- 655	580- 580
			Sample Size	1	491	55	1
1999	7/3-6 (7/1-8)	M	Mean Length		586	609	615
			Std. Error		4	4	-
			Range		550- 620	505- 670	615- 615
			Sample Size	0	25	55	1
		F	Mean Length		554	572	
			Std. Error		4	4	
			Range		510- 610	530- 640	
			Sample Size	0	32	38	0
	7/10-12 (7/9-14)	M	Mean Length		587	610	
			Std. Error		4	4	
			Range		520- 660	550- 690	
			Sample Size	0	43	50	0
		F	Mean Length		563	575	
			Std. Error		5	4	
			Range		520- 695	520- 655	
			Sample Size	0	46	43	0
	7/16-18 (7/15-20)	M	Mean Length		583	597	575
			Std. Error		4	5	-
			Range		515- 645	545- 665	575- 575
			Sample Size	0	47	34	1
		F	Mean Length	575	562	564	
			Std. Error	-	3	4	
			Range	575- 575	495- 615	505- 615	
			Sample Size	1	59	33	0
	7/22-23 (7/21-25)	M	Mean Length		580	599	
			Std. Error		4	5	
			Range		490- 640	560- 670	
			Sample Size	0	58	30	0
		F	Mean Length		557	569	
			Std. Error		3	5	
			Range		500- 625	520- 610	
			Sample Size	0	74	25	0

Appendix C.14. Mean length (mm) of Aniak River chum salmon escapement based on samples collected with a beach seine, and abundance estimates based on the use of Didson sonar equipment. [a] (page 7 of 19)

Year	Sample Dates (Stratum Dates)	Sex		Age Class 0.2	0.3	0.4	0.5
	7/27-29 (7/26-8/3)	M	Mean Length		578	592	640
			Std. Error		5	6	-
			Range		490- 640	530- 645	640- 640
			Sample Size	0	51	29	1
		F	Mean Length		540	559	
			Std. Error		3	5	
			Range		480- 600	520- 625	
			Sample Size	0	78	33	0
	Season [b]	M	Mean Length		582	602	611
			Range		490- 660	505- 690	575- 640
			Sample Size	0	224	198	3
		F	Mean Length	575	553	568	
			Range	575- 575	480- 695	505- 655	
			Sample Size	1	289	172	0
2000	6/29-7/6 (6/26-7/7)	M	Mean Length		601	628	580
			Std. Error		6	6	-
			Range		555- 645	550- 690	580- 580
			Sample Size	0	19	26	1
		F	Mean Length		573	587	
			Std. Error		6	7	
			Range		530- 615	535- 630	
			Sample Size	0	20	14	0
	7/9-12 (7/8-13)	M	Mean Length		603	641	570
			Std. Error		5	9	-
			Range		560- 690	600- 700	570- 570
			Sample Size	0	35	15	1
		F	Mean Length		560	582	
			Std. Error		4	10	
			Range		505- 620	515- 645	
			Sample Size	0	45	13	0
	7/16-17 (7/14-19)	M	Mean Length	545	580	615	
			Std. Error	-	4	8	
			Range	545- 545	510- 650	555- 665	
			Sample Size	1	55	15	0
		F	Mean Length	538	553	563	
			Std. Error	3	2	5	
			Range	535- 540	510- 600	535- 590	
			Sample Size	2	86	12	0

Appendix C.14. Mean length (mm) of Aniak River chum salmon escapement based on samples collected with a beach seine, and abundance estimates based on the use of Didson sonar equipment. [a] (page 8 of 19)

Year	Sample Dates (Stratum Dates)	Sex		Age Class 0.2	0.3	0.4	0.5
	7/21-22 (7/20-23)	M	Mean Length	546	590	598	
			Std. Error	5	3	10	
			Range	535- 555	540- 655	555- 665	
			Sample Size	4	62	14	0
		F	Mean Length	490	554	559	
			Std. Error	.	2	7	
			Range	490- 490	505- 615	520- 585	
			Sample Size	1	93	8	0
	7/25-27 (7/24-31)	M	Mean Length	572	585	604	
			Std. Error	16	3	12	
			Range	540- 595	530- 635	550- 670	
			Sample Size	3	53	10	0
		F	Mean Length	527	549	550	
			Std. Error	8	2	10	
			Range	500- 560	505- 610	485- 625	
			Sample Size	7	97	19	0
	Season	M	Mean Length	557	594	626	575
			Range	535- 595	510- 690	550- 700	570- 580
			Sample Size	8	224	80	2
		F	Mean Length	526	557	575	
			Range	490- 560	505- 620	485- 645	
			Sample Size	10	341	66	0
2001	7/6-8 (6/26-7/9)	M	Mean Length		603	624	
			Std. Error		4	5	
			Range		530- 650	570- 700	
			Sample Size	0	52	35	0
		F	Mean Length		569	582	
			Std. Error		3	4	
			Range		530- 620	540- 620	
			Sample Size	0	49	33	0
	7/12-14 (7/10-17)	M	Mean Length		590	614	
			Std. Error		3	5	
			Range		510- 650	550- 690	
			Sample Size	0	79	37	0
		F	Mean Length	530	560	577	
			Std. Error	10	3	4	
			Range	520- 540	500- 613	530- 657	
			Sample Size	2	70	45	0

Appendix C.14. Mean length (mm) of Aniak River chum salmon escapement based on samples collected with a beach seine, and abundance estimates based on the use of Didson sonar equipment. [a] (page 9 of 19)

Year	Sample Dates (Stratum Dates)	Sex		Age Class 0.2	0.3	0.4	0.5
	7/20-21 (7/18-23)	M	Mean Length		594	612	
			Std. Error		3	5	
			Range		520- 659	560- 670	
			Sample Size	0	120	26	0
		F	Mean Length	562	559	569	
			Std. Error	8	3	3	
			Range	554- 570	450- 637	500- 616	
			Sample Size	2	99	52	0
	7/20-21 (7/18-23)	M	Mean Length		583	602	
			Std. Error		3	8	
			Range		520- 660	540- 660	
			Sample Size	0	87	19	0
		F	Mean Length		549	556	
			Std. Error		2	6	
			Range		500- 620	500- 610	
			Sample Size	0	109	20	0
	Season	M	Mean Length		593	616	
			Range		510- 660	540- 700	
			Sample Size	0	338	117	0
		F	Mean Length	542	559	575	
			Range	520- 570	450- 637	500- 657	
			Sample Size	4	327	150	0
2002	6/30-7/1,3 (6/26-7/5)	M	Mean Length	570	601	617	
			Std. Error	-	4	11	
			Range	570- 570	540- 650	580- 770	
			Sample Size	1	40	18	0
		F	Mean Length		567	567	
			Std. Error		6	7	
			Range		520- 640	530- 620	
			Sample Size	0	25	13	0
	7/9 (7/6-11)	M	Mean Length		611	616	
			Std. Error		3	5	
			Range		565- 670	555- 675	
			Sample Size	0	75	27	0
		F	Mean Length	540	569	593	
			Std. Error	-	3	6	
			Range	540- 540	510- 625	540- 640	
			Sample Size	1	51	20	0

Appendix C.14. Mean length (mm) of Aniak River chum salmon escapement based on samples collected with a beach seine, and abundance estimates based on the use of Didson sonar equipment. [a] (page 10 of 19)

Year	Sample Dates (Stratum Dates)	Sex		Age Class 0.2	0.3	0.4	0.5
	7/14-15 (7/12-17)	M	Mean Length	583	595	616	
			Std. Error	23	3	7	
			Range	560- 605	540- 670	575- 665	
			Sample Size	2	81	16	0
		F	Mean Length	555	567	569	
			Std. Error	-	3	6	
			Range	555- 555	515- 615	545- 605	
			Sample Size	1	74	10	0
	7/20-21 (7/18-23)	M	Mean Length	595	586	597	
			Std. Error	30	4	10	
			Range	565- 625	510- 665	525- 650	
			Sample Size	2	59	10	0
		F	Mean Length	542	556	563	
			Std. Error	10	3	13	
			Range	510- 590	500- 630	500- 625	
			Sample Size	7	87	9	0
	7/26 (7/24-31)	M	Mean Length	549	591	612	
			Std. Error	19	4	17	
			Range	480- 590	515- 690	565- 670	
			Sample Size	5	66	7	0
		F	Mean Length	547	562	551	580
			Std. Error	6	3	8	-
			Range	525- 580	490- 625	505- 590	580- 580
			Sample Size	9	77	11	1
	Season	M	Mean Length	569	599	615	
			Range	480- 625	510- 690	525- 770	
			Sample Size	10	321	78	0
		F	Mean Length	545	564	572	580
			Range	510- 590	490- 640	500- 640	580- 580
			Sample Size	18	314	63	1
2003	6/26-28 (6/26-30)	M	Mean Length		606	623	
			Std. Error		8	7	
			Range		530- 685	565- 690	
			Sample Size	0	17	20	0
		F	Mean Length		566	584	
			Std. Error		10	13	
			Range		540- 625	550- 690	
			Sample Size	0	8	10	0

Appendix C.14. Mean length (mm) of Aniak River chum salmon escapement based on samples collected with a beach seine, and abundance estimates based on the use of Didson sonar equipment. [a] (page 11 of 19)

Year	Sample Dates (Stratum Dates)	Sex		Age Class 0.2	0.3	0.4	0.5
	7/2-4 (7/1-6)	M	Mean Length	540	593	625	625
			Std. Error	-	4	5	22
			Range	540- 540	530- 640	560- 700	565- 670
			Sample Size	1	46	30	4
		F	Mean Length		565	572	
			Std. Error		4	6	
			Range		500- 630	535- 645	
			Sample Size	0	41	19	0
	7/8-9 (7/7-12)	M	Mean Length		601	619	600
			Std. Error		3	5	25
			Range		545- 700	510- 680	555- 640
			Sample Size	0	104	44	3
		F	Mean Length	550	567	584	600
			Std. Error	-	3	6	17
			Range	550- 550	500- 665	525- 665	570- 630
			Sample Size	2	63	24	3
	7/14 (7/13-17)	M	Mean Length	525	604	635	
			Std. Error	-	5	12	
			Range	525- 525	530- 680	575- 730	
			Sample Size	1	57	11	0
		F	Mean Length		563	584	590
			Std. Error		3	5	-
			Range		495- 620	560- 600	590- 590
			Sample Size	0	67	9	1
	7/20-21 (7/18-24)	M	Mean Length		593	606	
			Std. Error		5	15	
			Range		510- 745	560- 670	
			Sample Size	0	66	7	0
		F	Mean Length		556	572	550
			Std. Error		3	6	-
			Range		505- 625	525- 620	550- 550
			Sample Size	0	91	15	1
	7/26-27 (7/25-31)	M	Mean Length		581	603	
			Std. Error		4	13	
			Range		490- 645	565- 645	
			Sample Size	0	66	6	0
		F	Mean Length		553	560	
			Std. Error		3	9	
			Range		470- 605	535- 600	
			Sample Size	0	86	7	0

Appendix C.14. Mean length (mm) of Aniak River chum salmon escapement based on samples collected with a beach seine, and abundance estimates based on the use of Didson sonar equipment. [a] (page 12 of 19)

Year	Sample Dates (Stratum Dates)	Sex		Age Class 0.2	0.3	0.4	0.5
	Season	M	Mean Length	531	595	620	614
			Range	525- 540	490- 745	510- 730	555- 670
			Sample Size	2	356	118	7
		F	Mean Length	550	559	576	583
			Range	550- 550	470- 665	525- 690	550- 630
			Sample Size	2	356	84	5
2004	6/28-30 (6/25-7/2)	M	Mean Length	588	600	625	
			Std. Error	33	5	3	
			Range	555- 620	565- 670	580- 690	
			Sample Size	2	29	77	0
		F	Mean Length	570	579	587	
			Std. Error	16	4	3	
			Range	540- 610	540- 630	545- 635	
			Sample Size	4	27	45	0
	7/4-5 (7/3-8)	M	Mean Length	563	608	626	620
			Std. Error	6	3	4	-
			Range	550- 580	560- 665	570- 675	620- 620
			Sample Size	4	46	39	1
		F	Mean Length	549	581	588	
			Std. Error	7	3	4	
			Range	505- 585	535- 630	535- 630	
			Sample Size	10	47	35	0
	7/10-11 (7/9-13)	M	Mean Length	569	599	612	
			Std. Error	6	3	4	
			Range	520- 620	545- 650	540- 690	
			Sample Size	18	55	53	0
		F	Mean Length	539	575	586	
			Std. Error	7	5	7	
			Range	510- 560	525- 630	530- 630	
			Sample Size	7	29	18	0
	7/16-17 (7/14-19)	M	Mean Length	552	594	629	598
			Std. Error	4	4	4	28
			Range	520- 610	535- 675	560- 665	570- 625
			Sample Size	29	53	27	2
		F	Mean Length	528	567	579	
			Std. Error	5	4	6	
			Range	485- 560	520- 605	525- 625	
			Sample Size	26	36	23	0

Appendix C.14. Mean length (mm) of Aniak River chum salmon escapement based on samples collected with a beach seine, and abundance estimates based on the use of Didson sonar equipment. [a] (page 13 of 19)

Year	Sample Dates (Stratum Dates)	Sex		Age Class 0.2	0.3	0.4	0.5
	7/22-23 (7/20-25)	M	Mean Length	552	585	610	
			Std. Error	4	5	7	
			Range	500- 620	520- 640	540- 710	
			Sample Size	42	36	23	0
		F	Mean Length	529	554	569	
			Std. Error	3	4	8	
			Range	485- 570	480- 620	545- 625	
			Sample Size	32	46	10	0
	7/28-29 (7/26-31)	M	Mean Length	542	579	604	
			Std. Error	5	5	11	
			Range	470- 590	530- 640	510- 650	
			Sample Size	35	36	12	0
		F	Mean Length	517	545	563	
			Std. Error	3	4	6	
			Range	465- 565	485- 600	505- 600	
			Sample Size	61	39	16	0
	Season	M	Mean Length	553	595	620	603
			Range	470- 620	520- 675	510- 710	570- 625
			Sample Size	130	255	231	3
		F	Mean Length	528	566	582	
			Range	465- 610	480- 630	505- 635	
			Sample Size	140	224	147	0
2005	6/23-26 (6/22-28)	M	Mean Length		588	619	
			Std. Error		5	11	
			Range		540- 635	590- 660	
			Sample Size	0	23	6	0
		F	Mean Length		560		
			Std. Error		5		
			Range		510- 595		
			Sample Size	0	17	0	0
	6/30-7/2 (6/29-7/5)	M	Mean Length	590	597	609	
			Std. Error	45	3	8	
			Range	545- 635	520- 665	565- 670	
			Sample Size	2	97	16	0
		F	Mean Length	540	562	576	
			Std. Error	12	3	14	
			Range	520- 575	505- 610	530- 615	
			Sample Size	4	67	5	0

Appendix C.14. Mean length (mm) of Aniak River chum salmon escapement based on samples collected with a beach seine, and abundance estimates based on the use of Didson sonar equipment. [a] (page 14 of 19)

Year	Sample Dates (Stratum Dates)	Sex		Age Class 0.2	0.3	0.4	0.5
	7/8-9 (7/6-11)	M	Mean Length		587	616	
			Std. Error		3	13	
			Range		515- 675	575- 665	
			Sample Size	0	106	7	0
		F	Mean Length	528	560	583	
			Std. Error	9	4	9	
			Range	500- 560	510- 635	570- 600	
			Sample Size	7	54	3	0
	7/14-15 (7/12-17)	M	Mean Length	545	570	545	
			Std. Error	-	3	-	
			Range	545- 545	515- 625	545- 545	
			Sample Size	1	82	1	0
		F	Mean Length	525	548	545	
			Std. Error	7	3	-	
			Range	445- 550	495- 615	545- 545	
			Sample Size	13	79	1	0
	7/20-21 (7/18-24)	M	Mean Length	563	587	600	635
			Std. Error	8	3	-	-
			Range	555- 570	530- 665	600- 600	635- 635
			Sample Size	2	84	1	1
		F	Mean Length	525	552	608	
			Std. Error	10	3	8	
			Range	465- 555	485- 620	600- 615	
			Sample Size	8	76	2	0
	7/28-29 (7/25-31)	M	Mean Length	508	571	628	
			Std. Error	18	4	8	
			Range	490- 525	480- 635	620- 635	
			Sample Size	2	77	2	0
		F	Mean Length	514	547	538	
			Std. Error	7	4	13	
			Range	480- 550	475- 620	515- 560	
			Sample Size	12	81	3	0
	Season	M	Mean Length	549	581	609	635
			Range	490- 635	480- 675	545- 670	635- 635
			Sample Size	7	470	33	1
		F	Mean Length	524	552	574	
			Range	445- 575	475- 635	515- 615	
			Sample Size	44	374	14	0

Appendix C.14. Mean length (mm) of Aniak River chum salmon escapement based on samples collected with a beach seine, and abundance estimates based on the use of Didson sonar equipment. [a] (page 15 of 19)

Year	Sample Dates (Stratum Dates)	Sex		Age Class 0.2	0.3	0.4	0.5
2006	7/1-3 (6/26-7/4)	M	Mean Length		587	601	
			Std. Error		13	8	
			Range		550- 645	550- 635	
			Sample Size	0	7	11	0
		F	Mean Length		556	575	
			Std. Error		6	-	
			Range		535- 580	575- 575	
			Sample Size	0	7	1	0
	7/6 (7/5-7)	M	Mean Length		578	597	
			Std. Error		4	11	
			Range		540- 620	520- 655	
			Sample Size	0	28	15	0
		F	Mean Length		557	572	
			Std. Error		7	7	
			Range		530- 605	540- 595	
			Sample Size	0	11	8	0
	7/8-11 (7/8-13)	M	Mean Length		582	609	
			Std. Error		3	5	
			Range		515- 660	555- 660	
			Sample Size	0	75	40	0
		F	Mean Length		556	573	
			Std. Error		5	6	
			Range		510- 595	535- 630	
			Sample Size	0	25	16	0
	7/15-16 (7/14-19)	M	Mean Length		584	602	
			Std. Error		4	5	
			Range		540- 655	530- 670	
			Sample Size	0	59	42	0
		F	Mean Length		561	568	
			Std. Error		3	4	
			Range		510- 620	515- 615	
			Sample Size	0	74	31	0
	7/23-24 (7/20-26)	M	Mean Length	548	581	588	
			Std. Error	3	4	5	
			Range	545- 550	530- 645	510- 655	
			Sample Size	2	57	43	0
		F	Mean Length	508	542	558	
			Std. Error	11	4	4	
			Range	475- 525	480- 610	510- 605	
			Sample Size	4	46	39	0

Appendix C.14. Mean length (mm) of Aniak River chum salmon escapement based on samples collected with a beach seine, and abundance estimates based on the use of Didson sonar equipment. [a] (page 16 of 19)

Year	Sample Dates (Stratum Dates)	Sex		Age Class 0.2	0.3	0.4	0.5
	7/28 (7/27-31)	M	Mean Length		580	576	
			Std. Error		6	9	
			Range		535- 640	515- 615	
			Sample Size	0	30	12	0
		F	Mean Length	543	556	570	
			Std. Error	18	7	9	
			Range	525- 560	510- 885	520- 640	
			Sample Size	2	49	12	0
	Season	M	Mean Length	548	582	599	
			Range	545- 550	515- 660	510- 670	
			Sample Size	2	256	163	0
		F	Mean Length	518	555	566	
			Range	475- 560	480- 885	510- 640	
			Sample Size	6	212	107	0
2007	7/3,5,7 (6/22-7/8)	M	Mean Length		575	602	581
			Std. Error		4	6	7
			Range		525- 630	545- 680	555- 600
			Sample Size	0	29	37	7
		F	Mean Length	510	559	572	605
			Std. Error	-	3	4	10
			Range	510- 510	495- 625	485- 635	595- 615
			Sample Size	1	68	43	2
	7/10,11,13 (7/9-15)	M	Mean Length		584	594	620
			Std. Error		4	5	-
			Range		520- 640	535- 650	620- 620
			Sample Size	0	50	31	1
		F	Mean Length		561	552	
			Std. Error		4	5	
			Range		500- 665	510- 620	
			Sample Size	0	52	25	0
	7/18-19 (7/16-22)	M	Mean Length		582	591	630
			Std. Error		4	7	-
			Range		520- 670	535- 650	630- 630
			Sample Size	0	51	19	1
		F	Mean Length	535	547	560	
			Std. Error	4	3	4	
			Range	525- 545	500- 600	520- 590	
			Sample Size	5	51	21	0

Appendix C.14. Mean length (mm) of Aniak River chum salmon escapement based on samples collected with a beach seine, and abundance estimates based on the use of Didson sonar equipment. [a] (page 17 of 19)

Year	Sample Dates (Stratum Dates)	Sex		Age Class 0.2	0.3	0.4	0.5
	7/24,26 (7/23-31)	M	Mean Length	580	573	588	
			Std. Error	-	6	7	
			Range	580- 580	355- 640	540- 650	
			Sample Size	1	49	18	0
		F	Mean Length	544	550	563	568
			Std. Error	9	3	7	18
			Range	510- 565	500- 600	510- 630	550- 585
			Sample Size	6	81	18	2
	Season	M	Mean Length	580	579	594	596
			Range	580- 580	355- 670	535- 680	555- 630
			Sample Size	1	179	105	9
		F	Mean Length	539	554	561	579
			Range	510- 565	495- 665	485- 635	550- 615
			Sample Size	12	252	107	4
2008	7/8,10,14 (6/15-7/15)	M	Mean Length		579	597	635
			Std. Error		7	4	-
			Range		555-632	540-653	635-635
			Sample Size	0	10	58	1
		F	Mean Length		550	568	573
			Std. Error		6	3	9
			Range		520-590	485-615	532-610
			Sample Size	0	13	57	9
	7/16,19,22-23 (7/16-24)	M	Mean Length		574	593	612
			Std. Error		5	4	31
			Range		532-627	525-662	551-650
			Sample Size	0	22	56	3
		F	Mean Length		553	569	556
			SE		4	3	-
			Range		506-590	528-611	556-556
			Sample Size	0	25	57	1
	7/27-28 (7/25-9/20)	M	Mean Length		572	583	600
			Std. Error		5	4	5
			Range		524-654	535-640	584-605
			Sample Size	0	42	36	4
		F	Mean Length		552	553	523
			Std. Error		4	3	16
			Range		500-615	514-602	550-554
			Sample Size	0	42	43	3

Appendix C.14. Mean length (mm) of Aniak River chum salmon escapement based on samples collected with a beach seine, and abundance estimates based on the use of Didson sonar equipment. [a] (page 18 of 19)

Year	Sample Dates (Stratum Dates)	Sex		Age Class 0.2	0.3	0.4	0.5
	Season[a]	M	Mean Length		574	593	610
			Range		524-654	525-662	551-650
			Sample Size	0	74	150	8
		F	Mean Length		552	565	563
			Range		500-615	485-615	500-610
			Sample Size	0	80	157	13
2009	7/5,7,9,12 (6/15-7/14)	M	Mean Length		591	597	570
			Std. Error		5	6	-
			Range		510- 645	550- 620	570- 570
			Sample Size	0	32	15	1
		F	Mean Length	530	563	557	
			Std. Error	20	5	8	
			Range	510- 550	495- 605	520- 595	
			Sample Size	2	28	13	0
	7/15,17,19,21 (7/15-21)	M	Mean Length	533	592	580	550
			Std. Error	8	4	6	15
			Range	525- 540	535- 645	520- 625	520- 570
			Sample Size	2	55	21	3
		F	Mean Length	551	548	550	
			Std. Error	14	3	7	
			Range	505- 585	465- 610	505- 605	
			Sample Size	5	78	19	0
	7/23,25 (7/22-31)	M	Mean Length	568	583	595	578
			Std. Error	8	3	6	3
			Range	545- 585	500- 635	555- 660	575- 580
			Sample Size	4	65	23	2
		F	Mean Length	533	555	546	530
			Std. Error	14	3	5	.
			Range	490- 575	500- 610	520- 590	530- 530
			Sample Size	6	93	16	1
	Season	M	Mean Length	557	589	592	564
			Range	525- 585	500- 645	520- 660	520- 580
			Sample Size	6	152	59	6
		F	Mean Length	538	555	552	530
			Range	490- 585	465- 610	505- 605	530- 530
			Sample Size	13	199	48	1

Appendix C.14. Mean length (mm) of Aniak River chum salmon escapement based on samples collected with a beach seine, and abundance estimates based on the use of Didson sonar equipment. [a] (page 19 of 19)

Year	Sample Dates (Stratum Dates)	Sex		Age Class 0.2	0.3	0.4	0.5
	Grand Total [d]	M	Mean Length	558	588	608	598
			Range	445- 635	335- 705	505- 700	530- 650
			Sample size	172	3,677	1,602	46
		F	Mean Length	540	556	570	567
			Range	445- 610	450- 885	475- 665	500- 610
			Sample size	272	3,930	1,356	31

[a] Use of DIDSON sonar equipment began in 2004, but annual abundance estimates from prior to 2004 have been converted to "DIDSON equivalents" (Molyneaux and Brannian 2007).

[b] For the 1995 "Season" the mean lengths are weighted by the sample size.

[c] "Season" mean lengths are weighted by the escapement passage in each stratum.

[d] "Grand Total" mean lengths are simple averages of the "Season" mean lengths.

Appendix C.15. Age and sex of chum salmon at the Tuluksak River weir based on escapement samples collected with a fish trap. [ab] (page 1 of 8)

Year	Sample Dates (Stratum Dates)	Sample Size	Sex	Age Class 0.2 Esc.	0.2 %	0.3 Esc.	0.3 %	0.4 Esc.	0.4 %	0.5 Esc.	0.5 %	Total Esc.	Total %
1991	6/19,23,26-7/3	159	M	0	0.0	42	9.4	269	59.7	6	1.3	317	70.4
	(6/19-7/3)		F	0	0.0	31	6.9	102	22.6	0	0.0	133	29.6
			Subtotal	0	0.0	73	16.3	370	82.3	6	1.3	450	100.0
	7/7-8	138	M	0	0.0	435	26.8	670	41.3	11	0.7	1,116	68.8
	(7/7-13)		F	23	1.4	258	15.9	224	13.8	0	0.0	506	31.2
			Subtotal	23	1.4	693	42.7	894	55.1	11	0.7	1,622	100.0
	7/14-15	134	M	35	2.2	472	29.9	272	17.2	0	0.0	778	49.3
	(7/14-20)		F	58	3.7	518	32.8	224	14.2	0	0.0	801	50.7
			Subtotal	93	5.9	990	62.7	496	31.4	0	0.0	1,579	100.0
	7/21	129	M	17	1.6	421	38.8	152	14.0	0	0.0	589	54.3
	(7/21-27)		F	34	3.1	328	30.2	135	12.4	0	0.0	496	45.7
			Subtotal	51	4.7	749	69.0	286	26.4	0	0.0	1,085	100.0
	7/28-30	145	M	0	0.0	508	40.0	193	15.2	0	0.0	701	55.2
	(7/28-8/3)		F	36	2.8	411	32.4	123	9.7	0	0.0	569	44.8
			Subtotal	36	2.8	919	72.4	316	24.9	0	0.0	1,270	100.0
	8/4-6	148	M	0	0.0	306	30.4	54	5.4	0	0.0	360	35.8
	(8/4-10)		F	81	8.1	488	48.6	74	7.4	0	0.0	645	64.2
			Subtotal	81	8.1	794	79.0	129	12.8	0	0.0	1,005	100.0
	8/11-13	153	M	3	0.7	93	20.3	15	3.3	0	0.0	111	24.2
	(8/11-17)		F	24	5.2	281	61.4	42	9.2	0	0.0	346	75.8
			Subtotal	27	5.9	373	81.7	57	12.5	0	0.0	457	100.0
	8/18-21	77	M	0	0.0	48	23.4	13	6.5	0	0.0	62	29.9
	(8/18-9/14)		F	11	5.2	116	55.8	19	9.1	0	0.0	145	70.1
			Subtotal	11	5.2	164	79.2	32	15.6	0	0.0	207	100.0
	Season	1,083	M	55	0.7	2,325	30.3	1,638	21.3	17	0.2	4,034	52.6
			F	266	3.5	2,431	31.7	943	12.3	0	0.0	3,641	47.4
			Total	322	4.2	4,755	62.0	2,581	33.6	17	0.2	7,675	100.0
1992	6/25-27	133	M	0	0.0	16	8.3	120	61.7	6	3.0	142	72.9
	(6/25-27)		F	0	0.0	16	8.3	37	18.8	0	0.0	53	27.1
			Subtotal	0	0.0	32	16.6	157	80.5	6	3.0	195	100.0
	6/28-29	144	M	0	0.0	148	15.3	544	56.3	41	4.2	732	75.7
	(6/28-7/4)		F	0	0.0	80	8.3	155	16.0	0	0.0	235	24.3
			Subtotal	0	0.0	228	23.6	699	72.3	41	4.2	967	100.0
	7/5-6	136	M	0	0.0	205	14.7	553	39.7	10	0.7	768	55.1
	(7/5-11)		F	0	0.0	235	16.9	369	26.5	21	1.5	625	44.9
			Subtotal	0	0.0	440	31.6	922	66.2	31	2.2	1,393	100.0
	7/12-13	151	M	0	0.0	477	21.2	894	39.7	74	3.3	1,446	64.2
	(7/12-18)		F	0	0.0	387	17.2	403	17.9	16	0.7	806	35.8
			Subtotal	0	0.0	865	38.4	1,297	57.6	90	4.0	2,252	100.0
	7/20-21	153	M	0	0.0	643	21.6	429	14.4	60	2.0	1129	37.9
	(7/19-25)		F	39	1.3	1111	37.3	700	23.5	0	0.0	1850	62.1
			Subtotal	39	1.3	1755	58.9	1129	37.9	60	2.0	2,979	100.0
	7/27-28	153	M	12	0.7	405	22.9	209	11.8	12	0.7	635	35.9
	(7/26-8/1)		F	12	0.7	763	43.1	359	20.3	0	0.0	1,135	64.1
			Subtotal	25	1.4	1,168	66.0	568	32.1	12	0.7	1,770	100.0

Appendix C.15. Age and sex of chum salmon at the Tuluksak River weir based on escapement samples collected with a fish trap. [ab] (page 2 of 8)

Year	Sample Dates (Stratum Dates)	Sample Size	Sex	Age Class 0.2 Esc.	0.2 %	0.3 Esc.	0.3 %	0.4 Esc.	0.4 %	0.5 Esc.	0.5 %	Total Esc.	Total %
	8/3-4,6	151	M	0	0.0	271	29.1	90	9.7	0	0.0	362	38.8
	(8/2-8)		F	28	3.0	404	43.3	139	14.9	0	0.0	570	61.2
			Subtotal	28	3.0	675	72.4	229	24.6	0	0.0	932	100.0
	8/9-11	151	M	0	0.0	100	21.9	21	4.6	0	0.0	121	26.5
	(8/9-15)		F	18	4.0	265	58.3	51	11.3	0	0.0	334	73.5
			Subtotal	18	4.0	365	80.2	72	15.9	0	0.0	455	100.0
	8/16-18,24,31	34	M	0	0.0	71	29.4	7	2.9	0	0.0	78	32.4
	(8/16-31)		F	7	2.9	127	52.9	28	11.8	0	0.0	162	67.6
			Subtotal	7	2.9	198	82.3	35	14.7	0	0.0	240	100.0
	Season	1,206	M	12	0.1	2,337	20.9	2,868	25.6	203	1.8	5,412	48.4
			F	104	0.9	3,389	30.3	2,242	20.0	37	0.3	5,771	51.6
			Total	117	1.0	5,726	51.2	5,110	45.7	239	2.1	11,183	100.0
1993	6/18-19,21-26	51	M	0	0.0	3	5.9	28	49.0	12	21.6	44	76.5
	(6/12-26)		F	0	0.0	1	2.0	10	17.6	2	3.9	13	23.5
			Subtotal	0	0.0	5	7.9	38	66.6	15	25.5	57	100.0
	6/27-7/1	150	M	0	0.0	39	8.0	237	48.0	72	14.7	349	70.7
	(6/27-7/3)		F	0	0.0	20	4.0	89	18.0	36	7.3	144	29.3
			Total	0	0.0	59	12.0	325	66.0	108	22.0	493	100.0
	7/5-6	154	M	0	0.0	243	14.9	636	39.0	127	7.8	1,006	61.7
	(7/4-10)		F	0	0.0	179	11.0	360	22.1	85	5.2	624	38.3
			Total	0	0.0	422	25.9	996	61.1	212	13.0	1,630	100.0
	7/11-12	148	M	0	0.0	431	14.2	1,107	36.5	164	5.4	1,702	56.1
	(7/11-17)		F	0	0.0	388	12.8	922	30.4	21	0.7	1,331	43.9
			Total	0	0.0	819	27.0	2,029	66.9	185	6.1	3,033	100.0
	7/18,21	144	M	0	0.0	596	16.0	1,239	33.3	78	2.1	1,913	51.4
	(7/18-24)		F	78	2.1	700	18.8	983	26.4	52	1.4	1,809	48.6
			Total	78	2.1	1,295	34.8	2,222	59.7	130	3.5	3,722	100.0
	7/25	146	M	17	0.7	449	18.5	699	28.8	0	0.0	1,163	47.9
	(7/25-31)		F	34	1.4	599	24.7	599	24.7	34	1.4	1,264	52.1
			Total	51	2.1	1,048	43.2	1,298	53.5	34	1.4	2,427	100.0
	8/1-2	146	M	11	0.7	296	18.5	274	17.1	11	0.7	592	37.0
	(8/1-7)		F	77	4.8	570	35.6	350	21.9	11	0.7	1,008	63.0
			Total	88	5.5	866	54.1	624	39.0	22	1.4	1,600	100.0
	8/8-11	146	M	3	0.7	48	9.6	24	4.8	0	0.0	75	15.1
	(8/8-14)		F	27	5.5	273	54.8	120	24.0	3	0.7	424	85.0
			Total	31	6.2	321	64.4	144	28.8	3	0.7	499	100.1
	8/15-17	47	M	0	0.0	18	8.5	13	6.4	0	0.0	31	14.9
	(8/15-21)		F	18	8.5	101	48.9	57	27.7	0	0.0	176	85.1
			Total	18	8.5	119	57.4	71	34.1	0	0.0	207	100.0
	8/22-28,9/1,8-9	31	M	0	0.0	4	3.2	4	3.2	0	0.0	9	6.5
	(8/22-9/10)		F	18	12.9	61	45.2	48	35.5	0	0.0	127	93.5
			Total	18	12.9	66	48.4	53	38.7	0	0.0	136	100.0
	Season	1,163	M	32	0.2	2,127	15.4	4,261	30.9	465	3.4	6,882	49.9
			F	252	1.8	2,893	21.0	3,539	25.6	245	1.8	6,922	50.1
			Total	283	2.1	5,020	36.4	7,800	56.5	710	5.1	13,804	100.0

Appendix C.15. Age and sex of chum salmon at the Tuluksak River weir based on escapement samples collected with a fish trap. [ab] (page 3 of 8)

Year	Sample Dates (Stratum Dates)	Sample Size	Sex	Age Class 0.2 Esc.	0.2 %	0.3 Esc.	0.3 %	0.4 Esc.	0.4 %	0.5 Esc.	0.5 %	Total Esc.	Total %
1994	6/29-7/5	176	M	0	0.0	168	13.1	632	49.4	73	5.7	872	68.2
	(6/29-7/9)		F	0	0.0	81	6.3	284	22.2	43	3.4	407	31.8
			Subtotal	0	0.0	248	19.4	916	71.6	116	9.1	1,279	100.0
	7/10-11	133	M	0	0.0	631	18	1,237	35.3	186	5.3	2,054	58.6
	(7/10-16)		F	0	0.0	449	12.8	869	24.8	133	3.8	1,451	41.4
			Subtotal	0	0.0	1080	30.8	2,107	60.1	319	9.1	3,505	100.0
	7/17-18	142	M	0	0.0	1,464	26.1	1,184	21.1	118	2.1	2,766	49.3
	(7/17-23)		F	0	0.0	1,302	23.2	1,380	24.6	157	2.8	2,844	50.7
			Subtotal	0	0.0	2,766	49.3	2,564	45.7	275	4.9	5,610	100.0
	7/24	137	M	0	0.0	977	26.3	461	12.4	26	0.7	1,464	39.4
	(7/24-30)		F	0	0.0	1,571	42.3	676	18.2	0	0.0	2,251	60.6
			Subtotal	0	0.0	2,548	68.6	1,137	30.6	26	0.7	3,715	100.0
	7/31-8/2	150	M	16	1.3	336	27.3	107	8.7	9	0.7	467	38.0
	(7/31-8/6)		F	41	3.3	574	46.7	147	12.0	0	0.0	762	62.0
			Subtotal	57	4.6	909	74.0	254	20.7	9	0.7	1,229	100.0
	8/7-10,14-17,21	113	M	0	0.0	85	16.8	54	10.6	0	0.0	139	27.4
	9/4-5,7		F	31	6.2	256	50.4	81	15.9	0	0.0	368	72.6
	(8/7-9/11)		Subtotal	31	6.2	341	67.2	134	26.5	0	0.0	507	100.0
	Season	851	M	16	0.1	3,660	23.1	3,674	23.2	411	2.6	7,762	49.0
			F	72	0.5	4,232	26.7	3,437	21.7	334	2.1	8,083	51.0
			Total	88	0.6	7,892	49.8	7,112	44.9	745	4.7	15,845	100.0
2001	7/11-12	68	M	0	0.0	1,011	22.1	2,224	48.5	0	0.0	3,236	70.6
	(6/29-7/14)		F	0	0.0	877	19.1	472	10.3	0	0.0	1,348	29.4
			Subtotal	0	0.0	1,888	41.2	2,696	58.8	0	0.0	4,584	100.0
	7/16-19	185	M	0	0.0	1,952	42.2	801	17.3	0	0.0	2,754	59.5
	(7/15-21)		F	0	0.0	1,452	31.3	426	9.2	0	0.0	1,877	40.5
			Subtotal	0	0.0	3,404	73.5	1,227	26.5	0	0.0	4,631	100.0
	7/23-25	155	M	0	0.0	2,407	45.2	378	7.1	0	0.0	2,785	52.3
	(7/22-28)		F	34	0.6	2,303	43.2	206	3.9	0	0.0	2,544	47.7
			Subtotal	34	0.6	4,710	88.4	584	11	0	0.0	5,329	100.0
	7/30-31	147	M	15	0.7	1,146	53.7	87	4.1	0	0.0	1,247	58.5
	(7/29-8/3)		F	0	0.0	812	38.1	73	3.4	0	0.0	885	41.5
			Subtotal	15	0.7	1,958	91.8	160	7.5	0	0.0	2,132	100.0
	8/6-9	129	M	0	0.0	696	35.6	30	1.5	0	0.0	726	37.2
	(8/4-11)		F	30	1.6	1,179	60.5	15	0.8	0	0.0	1,225	62.8
			Subtotal	30	1.6	1,875	96.1	45	2.3	0	0.0	1,951	100.0
	8/13-15,27	124	M	0	0.0	140	20.2	11	1.6	0	0.0	151	21.8
	(8/12-9/10)		F	0	0.0	531	76.6	11	1.6	0	0.0	542	78.2
			Subtotal	0	0.0	671	96.8	22	3.2	0	0.0	693	100.0
	Season	808	M	14	0.1	7,352	38.1	3,532	18.3	0	0.0	10,898	56.4
			F	65	0.3	7,154	37.0	1,203	6.2	0	0.0	8,422	43.6
			Total	79	0.4	14,506	75.1	4,735	24.5	0	0.0	19,320	100.0

Appendix C.15. Age and sex of chum salmon at the Tuluksak River weir based on escapement samples collected with a fish trap. [ab] (page 4 of 8)

Year	Sample Dates (Stratum Dates)	Sample Size	Sex	Age Class 0.2 Esc.	0.2 %	0.3 Esc.	0.3 %	0.4 Esc.	0.4 %	0.5 Esc.	0.5 %	Total Esc.	Total %
2002	6/26-28	46	M	0	0.0	39	8.7	186	41.3	19	4.3	245	54.3
	(6/10-29)		F	0	0.0	88	19.6	108	23.9	10	2.2	206	45.7
			Subtotal	0	0.0	127	28.3	294	65.2	29	6.5	451	100.0
	7/1-5	98	M	0	0.0	248	26.6	258	27.5	0	0.0	506	54.1
	(6/30-7/6)		F	0	0.0	200	21.4	229	24.5	0	0.0	429	45.9
			Subtotal	0	0.0	448	48.0	487	52.0	0	0.0	935	100.0
	7/8-11	169	M	0	0.0	494	29.0	454	26.6	0	0.0	948	55.6
	(7/7-13)		F	0	0.0	515	30.2	242	14.2	0	0.0	757	44.4
			Subtotal	0	0.0	1,009	59.2	696	40.8	0	0.0	1,705	100.0
	7/15-16	178	M	0	0.0	906	28.1	1,033	32.0	18	0.6	1,957	60.7
	(7/14-19)		F	18	0.6	761	23.6	489	15.2	0	0.0	1,268	39.3
			Subtotal	18	0.6	1,667	51.7	1,522	47.2	18	0.6	3,225	100.0
	7/22-24,26	171	M	89	5.3	563	33.3	287	17.0	0	0.0	938	55.6
	(7/20-27)		F	59	3.5	464	27.5	227	13.4	0	0.0	751	44.4
			Subtotal	148	8.8	1,027	60.8	514	30.4	0	0.0	1,689	100.0
	7/29-8/1	148	M	138	12.2	299	26.3	169	14.8	8	0.7	614	54.1
	(7/28-8/3)		F	161	14.2	261	23.0	100	8.8	0	0.0	522	45.9
			Subtotal	299	26.4	560	49.3	269	23.6	8	0.7	1,136	100.0
	8/5-8	105	M	87	15.2	103	18.1	27	4.7	5	1.0	223	39.0
	(8/4-14)		F	82	14.3	218	38.1	49	8.6	0	0.0	348	61.0
			Subtotal	169	29.5	321	56.2	76	13.3	5	1.0	571	100.0
	8/19-21	13	M	19	7.7	57	23.1	38	15.4	0	0.0	114	46.2
	(8/15-9/10)		F	76	30.8	57	23.1	0	0.0	0	0.0	132	53.8
			Subtotal	95	38.5	114	46.2	38	15.4	0	0.0	246	100.0
	Season	928	M	333	3.3	2,710	27.2	2,451	24.6	51	0.5	5,545	55.7
			F	396	4.0	2,564	25.8	1,444	14.5	10	0.1	4,413	44.3
			Total	729	7.3	5,274	53.0	3,895	39.1	61	0.6	9,958	100.0
2003	6/26,7/1-6	117	M	0	0.0	363	59.0	63	10.2	11	1.7	436	70.9
	(6/16-7/6)		F	5	0.9	126	20.5	37	6.0	10	1.7	179	29.1
			Subtotal	5	0.9	489	79.5	100	16.2	21	3.4	615	100.0
	7/7-10,12	175	M	5	0.6	388	46.9	81	9.7	9	1.1	483	58.3
	(7/7-12)		F	9	1.1	308	37.1	28	3.4	0	0.0	346	41.7
			Subtotal	14	1.7	696	84.0	109	13.1	9	1.1	829	100.0
	7/13-15	198	M	0	0.0	479	49.5	68	7.1	5	0.5	552	57.1
	(7/13-17)		F	10	1.0	356	36.9	39	4.0	10	1.0	415	42.9
			Subtotal	10	1.0	835	86.4	107	11.1	15	1.5	967	100.0
	7/20-22	187	M	0	0.0	1,302	60.4	127	5.9	12	0.5	1,440	66.8
	(7/18-24)		F	23	1.1	668	31.0	23	1.1	0	0.0	714	33.2
			Subtotal	23	1.1	1,970	91.4	150	7.0	12	0.5	2,154	100.0
	7/27-28	194	M	64	1.6	2,813	67.5	236	5.7	21	0.5	3,134	75.3
	(7/25-31)		F	43	1.0	966	23.2	22	0.5	0	0.0	1,031	24.7
			Subtotal	107	2.6	3,779	90.7	258	6.2	21	0.5	4,165	100.0
	8/3-4	187	M	43	2.1	1,237	62.0	85	4.3	21	1.1	1,386	69.5
	(8/1-7)		F	32	1.6	576	28.9	0	0.0	0	0.0	608	30.5
			Subtotal	75	3.7	1,813	90.9	85	4.3	21	1.1	1,994	100.0

Appendix C.15. Age and sex of chum salmon at the Tuluksak River weir based on escapement samples collected with a fish trap. [ab] (page 5 of 8)

Year	Sample Dates (Stratum Dates)	Sample Size	Sex	Age Class 0.2 Esc.	0.2 %	0.3 Esc.	0.3 %	0.4 Esc.	0.4 %	0.5 Esc.	0.5 %	Total Esc.	Total %
	8/10	45	M	20	2.2	521	57.8	20	2.2	20	2.2	581	64.4
	(8/8-9/14)		F	20	2.2	300	33.3	0	0.0	0	0.0	320	35.6
			Subtotal	40	4.4	821	91.1	20	2.2	20	2.2	901	100.0
	Season	1,103	M	132	1.2	7,101	61.1	680	5.8	99	0.8	8,013	68.9
			F	142	1.2	3,301	28.4	149	1.3	20	0.2	3,612	31.1
			Total	274	2.4	10,402	89.5	829	7.1	119	1.0	11,625	100.0
2004	6/23-24,26-30	245	M	7	0.4	188	11.0	913	53.5	21	1.2	1,129	66.1
	(6/20-7/2)		F	7	0.4	139	8.2	432	25.3	0	0.0	578	33.9
			Subtotal	14	0.8	327	19.2	1,345	78.8	21	1.2	1,707	100.0
	7/4-5	192	M	23	1.0	376	17.2	958	43.7	0	0.0	1,357	62.0
	(7/3-8)		F	34	1.6	365	16.7	433	19.8	0	0.0	832	38.0
			Subtotal	57	2.6	741	33.9	1,391	63.5	0	0.0	2,189	100.0
	7/12-13	181	M	181	10.5	382	22.1	534	31.0	10	0.6	1,107	64.1
	(7/9-16)		F	86	5.0	296	17.1	239	13.8	0	0.0	621	35.9
			Subtotal	267	15.5	678	39.2	773	44.8	10	0.6	1,728	100.0
	7/19	187	M	310	9.6	534	16.6	706	21.9	0	0.0	1,550	48.1
	(7/17-23)		F	431	13.4	878	27.3	362	11.3	0	0.0	1,671	51.9
			Subtotal	741	23.0	1,412	43.9	1,068	33.2	0	0.0	3,221	100.0
	7/26-28	186	M	348	20.4	412	24.2	274	16.1	0	0.0	1,034	60.8
	(7/24-31)		F	311	18.3	247	14.5	110	6.5	0	0.0	668	39.2
			Subtotal	659	38.7	659	38.7	384	22.6	0	0.0	1,702	100.0
	8/2-4,10,23-24,9/4	195	M	224	17.9	186	14.9	173	13.9	0	0.0	583	46.7
	(8/1-9/10)		F	327	26.2	218	17.4	122	9.7	0	0.0	666	53.3
			Subtotal	551	44.1	404	32.3	295	23.6	0	0.0	1,249	100.0
	Season	1,186	M	1,093	9.3	2,078	17.6	3,559	30.2	30	0.3	6,760	57.3
			F	1,196	10.1	2,143	18.2	1,697	14.4	0	0.0	5,036	42.7
			Total	2,289	19.4	4,221	35.8	5,256	44.6	30	0.3	11,796	100.0
2005	6/27-29,7/2	139	M	7	0.7	401	39.6	87	8.6	22	2.2	517	51.1
	(6/24-7/3)		F	0	0.0	451	44.6	37	3.6	7	0.7	495	48.9
			Subtotal	7	0.7	852	84.2	124	12.2	29	2.9	1,012	100.0
	7/4-7	184	M	0	0.0	1,875	56.0	54	1.6	0	0.0	1,930	57.6
	(7/4-9)		F	36	1.1	1,293	38.6	73	2.2	18	0.5	1,420	42.4
			Subtotal	36	1.1	3,168	94.6	127	3.8	18	0.5	3,350	100.0
	7/11-12	176	M	50	0.5	6,035	68.8	249	2.8	50	0.6	6,384	72.7
	(7/10-15)		F	199	2.3	2,194	25.0	0	0.0	0	0.0	2,394	27.3
			Subtotal	249	2.8	8,229	93.8	249	2.8	50	0.6	8,778	100.0
	7/19-20	177	M	64	0.6	5,465	48.0	257	2.3	0	0.0	5,786	50.8
	(7/16-23)		F	322	2.8	5,272	46.4	0	0.0	0	0.0	5,594	49.2
			Subtotal	386	3.4	10,737	94.4	257	2.3	0	0.0	11,380	100.0
	7/26-27	195	M	131	1.6	4,828	56.9	130	1.5	0	0.0	5,089	60.0
	(7/24-31)		F	391	4.6	3,002	35.4	0	0.0	0	0.0	3,393	40.0
			Subtotal	522	6.2	7,830	92.3	130	1.5	0	0.0	8,482	100.0
	8/2-4	168	M	39	2.4	957	57.8	30	1.8	0	0.0	1,026	61.9
	(8/1-6)		F	79	4.7	553	33.3	0	0.0	0	0.0	632	38.1
			Subtotal	118	7.1	1,510	91.1	30	1.8	0	0.0	1,658	100.0
	8/9-25	108	M	19	1.9	566	54.6	0	0.0	0	0.0	585	56.5

Appendix C.15. Age and sex of chum salmon at the Tuluksak River weir based on escapement samples collected with a fish trap. [ab] (page 6 of 8)

Year	Sample Dates (Stratum Dates)	Sample Size	Sex	Age Class 0.2 Esc.	0.2 %	0.3 Esc.	0.3 %	0.4 Esc.	0.4 %	0.5 Esc.	0.5 %	Total Esc.	Total %
	(8/7-9/9)		F	115	11.1	326	31.5	10	0.9	0	0.0	451	43.5
			Subtotal	134	13.0	892	86.1	10	0.9	0	0.0	1,036	100.0
	Season	1,147	M	311	0.9	20,127	56.4	808	2.3	72	0.2	21,318	59.7
			F	1,143	3.2	13,091	36.7	119	0.3	25	0.1	14,378	40.3
			Total	1,454	4.1	33,218	93.1	927	2.6	97	0.3	35,696	100.0
2006	7/3-5	151	M	0	0.0	1,003	21.2	1,849	39.1	0	0.0	2,852	60.3
	(6/24-7/7)		F	0	0.0	439	9.3	1,442	30.4	0	0.0	1,881	39.7
			Subtotal	0	0.0	1,442	30.5	3,291	69.5	0	0.0	4,733	100.0
	7/9-10	179	M	0	0.0	846	19.6	1,692	39.1	24	0.6	2,562	59.2
	(7/8-13)		F	97	2.2	749	17.3	918	21.2	0	0.0	1,764	40.8
			Subtotal	97	2.2	1,595	36.9	2,610	60.3	24	0.6	4,326	100.0
	7/16-17	188	M	67	1.1	1,500	23.9	1,801	28.7	0	0.0	3,367	53.7
	(7/14-20)		F	33	0.5	1,567	25.0	1,300	20.8	0	0.0	2,901	46.3
			Subtotal	100	1.6	3,067	48.9	3,101	49.5	0	0.0	6,268	100.0
	7/23	173	M	0	0.0	1,103	25.4	1,128	26.0	0	0.0	2,231	51.4
	(7/21-27)		F	175	4.0	1,078	24.9	852	19.7	0	0.0	2,105	48.6
			Subtotal	175	4.0	2,181	50.3	1,980	45.7	0	0.0	4,336	100.0
	7/30	178	M	31	1.1	912	33.7	410	15.2	0	0.0	1,353	50.0
	(7/28-8/3)		F	106	4.0	775	28.7	471	17.4	0	0.0	1,352	50.0
			Subtotal	137	5.1	1,687	62.4	881	32.6	0	0.0	2,705	100.0
	8/6-9/5	187	M	53	1.6	491	15.0	333	10.2	0	0.0	877	26.7
	(8/4-9/10)		F	228	7.0	1,421	43.3	754	23.0	0	0.0	2,403	73.3
			Subtotal	281	8.6	1,912	58.3	1,087	33.2	0	0.0	3,280	100.0
	Season	1,056	M	150	0.6	5,855	22.8	7,213	28.1	24	0.1	13,242	51.6
			F	640	2.5	6,028	23.5	5,738	22.4	0	0.0	12,406	48.4
			Total	790	3.1	11,883	46.3	12,951	50.5	24	0.1	25,648	100.0
2007	7/1-4	182	M	0	0.0	320	43.4	222	30.2	32	4.4	574	78.0
	(6/20-7/6)		F	4	0.5	101	13.7	49	6.6	8	1.1	162	22.0
			Subtotal	4	0.5	421	57.1	271	36.8	40	5.5	736	100.0
	7/8-9	188	M	0	0.0	1,031	47.9	527	24.5	46	2.1	1,603	74.5
	(7/7-12)		F	34	1.6	355	16.5	149	6.9	11	0.6	550	25.5
			Subtotal	34	1.6	1,386	64.4	676	31.4	57	2.7	2,153	100.0
	7/15	177	M	49	1.1	2,326	54.3	606	14.1	49	1.1	3,029	70.6
	(7/13-18)		F	145	3.4	751	17.5	339	7.9	24	0.6	1,260	29.4
			Subtotal	194	4.5	3,077	71.8	945	22.0	73	1.7	4,289	100.0
	7/22	183	M	100	2.2	2,520	55.2	773	16.9	125	2.7	3,518	77.0
	(7/19-25)		F	100	2.2	749	16.4	200	4.4	0	0.0	1,048	23.0
			Subtotal	200	4.4	3,269	71.6	973	21.3	125	2.7	4,566	100.0
	7/29-30	185	M	0	0.0	1,725	50.3	352	10.3	37	1.1	2,114	61.6
	(7/26-8/2)		F	56	1.6	1,075	31.3	167	4.8	19	0.5	1,317	38.4
			Subtotal	56	1.6	2,800	81.6	519	15.1	56	1.6	3,431	100.0

Appendix C.15. Age and sex of chum salmon at the Tuluksak River weir based on escapement samples collected with a fish trap. [ab] (page 7 of 8)

Year	Sample Dates (Stratum Dates)	Sample Size	Sex	Age Class 0.2 Esc.	0.2 %	0.3 Esc.	0.3 %	0.4 Esc.	0.4 %	0.5 Esc.	0.5 %	Total Esc.	Total %
	8/5	108	M	20	1.0	684	32.4	156	7.4	20	0.9	880	41.7
	(8/3-9/10)		F	19	0.9	1,173	55.6	39	1.9	0	0.0	1,231	58.3
			Subtotal	39	1.9	1,857	88.0	195	9.3	20	0.9	2,111	100.0
	Season	1,023	M	168	0.9	8,606	49.8	2,637	15.3	308	1.8	11,718	67.8
			F	359	2.1	4,204	24.3	942	5.4	62	0.3	5,568	32.2
			Total	527	3.0	12,810	74.1	3,579	20.7	370	2.1	17,286	100.0
2008	6/30-7/4	157	M	0	0.0	1	0.6	127	65.6	10	5.1	138	71.3
	(6/15-7/4)		F	0	0.0	4	1.9	46	23.6	6	3.2	56	28.7
			Subtotal	0	0.0	5	2.5	173	89.2	16	8.3	194	100.0
	7/5-7	198	M	6	0.5	6	0.5	689	61.1	23	2.0	723	64.1
	(7/5-10)		F	0	0.0	11	1.0	370	32.8	23	2.0	404	35.9
			Subtotal	6	0.5	17	1.5	1,059	93.9	46	4.0	1,127	100.0
	7/13-14	181	M	20	0.6	197	5.5	2,011	56.4	99	2.8	2,326	65.2
	(7/1-18)		F	0	0.0	118	3.3	1,064	29.8	59	1.6	1,242	34.8
			Subtotal	20	0.6	315	8.8	3,075	86.2	158	4.4	3,568	100.0
	7/21	190	M	16	0.5	313	10.0	1,665	53.1	132	4.2	2,127	67.9
	(7/19-24)		F	0	0.0	215	6.8	742	23.7	49	1.6	1,006	32.1
			Subtotal	16	0.5	528	16.8	2,407	76.8	181	5.8	3,133	100.0
	7/27	173	M	14	0.6	275	11.5	728	30.6	28	1.2	1,043	43.9
	(7/25-8/1)		F	27	1.1	329	13.9	933	39.3	41	1.7	1,332	56.1
			Subtotal	41	1.7	604	25.4	1,661	69.9	69	2.9	2,375	100.0
	8/3-4	202	M	6	0.5	108	9.4	312	27.2	23	2.0	449	39.1
	(8/2-8/6)		F	0	0.0	187	16.3	500	43.6	11	1.0	698	60.9
			Subtotal	6	0.5	295	25.7	812	70.8	34	3.0	1,147	100.0
	8/10-13,17	195	M	0	0.0	120	12.3	225	23.1	20	2.1	365	37.4
	(8/7-9/20)		F	5	0.5	220	22.6	369	37.9	15	1.5	609	62.6
			Subtotal	5	0.5	340	34.9	594	61.0	35	3.6	974	100.0
	Season	1,296	M	61	0.5	1,020	8.1	5,757	46.0	333	2.7	7,171	57.3
			F	33	0.2	1,084	8.7	4,025	32.1	205	1.6	5,347	42.7
			Total	94	0.7	2,104	16.8	9,782	78.1	538	4.3	12,518	100.0
2009	6/30-7/20	527	M	101	2.3	2,258	50.8	396	8.9	135	3.0	2,889	65.1
	(6/26-7/20)		F	93	2.1	1,238	27.9	177	4.0	42	1.0	1,550	34.9
			Subtotal	194	4.4	3,496	78.7	573	12.9	177	4.0	4,439	100.0
	7/26,27	177	M	132	2.8	2,816	60.5	447	9.6	0	0.0	3,396	72.9
	(7/21-28)		F	79	1.7	1,053	22.6	132	2.8	0	0.0	1,263	27.1
			Subtotal	211	4.5	3,869	83.1	579	12.4	0	0.0	4,659	100.0
	8/2-17	418	M	44	1.0	2,433	53.4	295	6.5	54	1.2	2,825	62.0
	(7/29-9/9)		F	43	0.9	1,451	31.8	196	4.3	44	1.0	1,735	38.0
			Subtotal	87	1.9	3,884	85.2	491	10.8	98	2.2	4,560	100.0
	Season	1,122	M	277	2.0	7,507	55.0	1,138	8.3	189	1.4	9,110	66.7
			F	215	1.6	3,742	27.4	505	3.7	86	0.6	4,548	33.3
			Total	492	3.6	11,249	82.4	1,643	12.0	275	2.0	13,658	100.0

Appendix C.15. Age and sex of chum salmon at the Tuluksak River weir based on escapement samples collected with a fish trap. [ab] (page 8 of 8)

Year	Sample Dates (Stratum Dates)	Sample Size	Sex	Age Class 0.2 Esc.	0.2 %	0.3 Esc.	0.3 %	0.4 Esc.	0.4 %	0.5 Esc.	0.5 %	Total Esc.	Total %
	Grand Total [c]	13,972	M	2,654	1.3	72,804	35.3	40,216	19.5	2,202	1.1	117,864	57.2
			F	4,883	2.4	56,256	27.3	25,983	12.6	1,023	0.5	88,148	42.8
			Total	7,537	3.7	129,060	62.6	66,198	32.1	3,225	1.6	206,012	100.0

[a] The number of fish in each stratum age and sex category are derived from the sample percentages; discrepancies in sums are attributed to rounding errors.

[b] The number of fish in "Season" summaries are the strata sums; "Season" percentages are derived from the sums.

[c] The number of fish in the "Grand total" are the sum of the "Season" totals.

Appendix C.16. Mean length (mm) of chum salmon at the Tuluksak River weir based on escapement samples collected with a fish trap. [a] (page 1 of 21)

Year	Sample Dates (Stratum Dates)	Sex		Age Class 0.2	0.3	0.4	0.5
1991	6/19,23,26-7/3 (6/19-7/3)	M	Mean Length		583	601	625
			Std. Error		9	3	15
			Range		490- 620	530- 685	610- 640
			Sample Size	0	15	95	2
		F	Mean Length		554	571	
			Std. Error		7	5	
			Range		525- 590	480- 635	
			Sample Size	0	11	36	0
	7/7-8 (7/7-13)	M	Mean Length		571	583	550
			Std. Error		5	4	-
			Range		480- 630	525- 660	550- 550
			Sample Size	0	37	57	1
		F	Mean Length	528	543	548	
			Std. Error	13	5	6	
			Range	515- 540	485- 585	505- 585	
			Sample Size	2	22	19	0
	7/14-15 (7/14-20)	M	Mean Length	577	569	583	
			Std. Error	15	5	5	
			Range	555- 605	505- 665	540- 620	
			Sample Size	3	40	23	0
		F	Mean Length	509	540	557	
			Std. Error	17	4	5	
			Range	450- 550	490- 585	505- 595	
			Sample Size	5	44	19	0
	7/21 (7/21-27)	M	Mean Length	520	548	559	
			Std. Error	15	4	7	
			Range	505- 535	480- 605	510- 625	
			Sample Size	2	50	18	0
		F	Mean Length	515	528	524	
			Std. Error	17	4	7	
			Range	485- 550	475- 590	480- 585	
			Sample Size	4	39	15	0
	7/28-30 (7/28-8/3)	M	Mean Length		537	548	
			Std. Error		3	6	
			Range		490- 585	505- 600	
			Sample Size	0	57	22	0
		F	Mean Length	510	505	529	
			Std. Error	16	4	6	
			Range	470- 545	450- 570	470- 565	
			Sample Size	4	47	14	0

Appendix C.16. Mean length (mm) of chum salmon at the Tuluksak River weir based on escapement samples collected with a fish trap. [a] (page 2 of 21)

Year	Sample Dates (Stratum Dates)	Sex		Age Class 0.2	0.3	0.4	0.5
	8/4-6 (8/4-10)	M	Mean Length		533	553	
			Std. Error		5	11	
			Range		400- 605	490- 580	
			Sample Size	0	45	8	0
		F	Mean Length	485	500	515	
			Std. Error	7	3	6	
			Range	440- 525	440- 550	475- 545	
			Sample Size	12	72	11	0
	8/11-13 (8/11-17)	M	Mean Length	450	512	538	
			Std. Error	-	6	26	
			Range	450- 450	430- 580	475- 630	
			Sample Size	1	31	5	0
		F	Mean Length	463	480	491	
			Std. Error	11	3	7	
			Range	430- 525	430- 555	445- 520	
			Sample Size	8	94	14	0
	8/18-21 (8/18-9/14)	M	Mean Length		508	500	
			Std. Error		10	18	
			Range		415- 580	450- 550	
			Sample Size	0	18	5	0
		F	Mean Length	465	477	469	
			Std. Error	12	4	9	
			Range	435- 490	425- 530	440- 510	
			Sample Size	4	43	7	0
	Season	M	Mean Length	552	550	577	576
			Range	450- 605	400- 665	450- 685	550- 640
			Sample size	6	293	233	3
		F	Mean Length	498	515	540	
			Range	430- 550	425- 590	440- 635	
			Sample size	39	372	135	0
1992	6/25-27 (6/25-27)	M	Mean Length		593	601	617
			Std. Error		5	3	9
			Range		566- 623	457- 673	591- 631
			Sample Size	0	11	82	4
		F	Mean Length		577	565	
			Std. Error		9	4	
			Range		503- 618	527- 608	
			Sample Size	0	11	25	0

Appendix C.16. Mean length (mm) of chum salmon at the Tuluksak River weir based on escapement samples collected with a fish trap. [a] (page 3 of 21)

Year	Sample Dates (Stratum Dates)	Sex		Age Class 0.2	0.3	0.4	0.5
	6/28-29 (6/28-7/4)	M	Mean Length		599	594	612
			Std. Error		6	3	10
			Range		547- 659	517- 648	590- 644
			Sample Size	0	22	81	6
		F	Mean Length		559	573	
			Std. Error		10	4	
			Range		477- 624	532- 624	
			Sample Size	0	12	23	0
	7/5-6 (7/5-11)	M	Mean Length		591	600	602
			Std. Error		6	3	-
			Range		538- 641	546- 658	602- 602
			Sample Size	0	20	54	1
		F	Mean Length		560	566	560
			Std. Error		4	4	12
			Range		524- 604	529- 608	548- 571
			Sample Size	0	23	36	2
	7/12-13 (7/12-18)	M	Mean Length		563	589	578
			Std. Error		7	6	7
			Range		451- 627	511- 890	551- 590
			Sample Size	0	32	60	5
		F	Mean Length		553	550	555
			Std. Error		6	5	-
			Range		495- 620	452- 589	555- 555
			Sample Size	0	26	27	1
	7/20-21 (7/19-25)	M	Mean Length		564	557	570
			Std. Error		6	7	15
			Range		505- 660	440- 605	555- 600
			Sample Size	0	33	22	3
		F	Mean Length	518	537	548	
			Std. Error	3	4	4	
			Range	515- 520	480- 650	455- 585	
			Sample Size	2	57	36	0
	7/27-28 (7/26-8/1)	M	Mean Length	505	545	560	635
			Std. Error	-	4	8	-
			Range	505- 505	505- 605	500- 630	635- 635
			Sample Size	1	35	18	1
		F	Mean Length	500	523	533	
			Std. Error	-	3	5	
			Range	500- 500	425- 590	470- 595	
			Sample Size	1	66	31	0

Appendix C.16. Mean length (mm) of chum salmon at the Tuluksak River weir based on escapement samples collected with a fish trap. [a] (page 4 of 21)

Year	Sample Dates (Stratum Dates)	Sex		Age Class 0.2	0.3	0.4	0.5
	8/3-4,6 (8/2-8)	M	Mean Length		534	542	
			Std. Error		4	6	
			Range		465- 589	511- 571	
			Sample Size	0	39	13	0
		F	Mean Length	504	515	522	
			Std. Error	7	3	6	
			Range	487- 518	463-574	482- 566	
			Sample Size	4	58	20	0
	8/9-11 (8/9 - 15)	M	Mean Length		530	540	
			Std. Error		5	12	
			Range		435- 582	509- 575	
			Sample Size	0	33	7	0
		F	Mean Length	485	515	512	
			Std. Error	7	3	6	
			Range	454- 500	472- 616	458- 550	
			Sample Size	6	88	17	0
	8/16-18,24,31 (8/16-31)	M	Mean Length		538	537	
			Std. Error		10	-	
			Range		498- 590	537- 537	
			Sample Size	0	10	1	0
		F	Mean Length	464	496	513	
			Std. Error	0	5	6	
			Range	464- 464	468-544	500- 526	
			Sample Size	1	18	4	0
	Season	M	Mean Length	505	565	584	588
			Range	505- 505	435- 660	440- 890	551- 644
			Sample size	1	235	338	20
		F	Mean Length	502	532	548	558
			Range	545- 520	425- 650	452- 624	548- 571
			Sample size	14	359	219	3
1993	6/18-19,21-26 (6/12-26)	M	Mean Length		563	591	602
			Std. Error		19	4	8
			Range		540- 600	555- 630	560-640
			Sample Size	0	3	25	11
		F	Mean Length		540	555	555
			Std. Error		-	8	35
			Range		540- 540	530- 595	520- 590
			Sample Size	0	1	9	2

Appendix C.16. Mean length (mm) of chum salmon at the Tuluksak River weir based on escapement samples collected with a fish trap. [a] (page 5 of 21)

Year	Sample Dates (Stratum Dates)	Sex		Age Class 0.2	0.3	0.4	0.5
	6/27-30,7/1 (6/27-7/3)	M	Mean Length		574	584	600
			Std. Error		7	3	6
			Range		540- 610	515- 650	545- 650
			Sample Size	0	12	72	22
		F	Mean Length		532	555	559
			Std. Error		9	5	10
			Range		490- 550	485- 610	515- 620
			Sample Size	0	6	27	11
	7/5-6 (7/4-10)	M	Mean Length		561	570	587
			Std. Error		5	4	8
			Range		484- 605	515- 680	555- 645
			Sample Size	0	23	60	12
		F	Mean Length		552	553	543
			Std. Error		5	3	6
			Range		525- 595	525- 595	510- 560
			Sample Size	0	17	34	8
	7/11-12 (7/11-17)	M	Mean Length		561	572	559
			Std. Error		6	3	8
			Range		515- 610	530- 635	525- 590
			Sample Size	0	21	54	8
		F	Mean Length		539	539	570
			Std. Error		7	3	-
			Range		500- 615	485- 590	570- 570
			Sample Size	0	19	45	1
	7/18,21 (7/18-24)	M	Mean Length		560	575	600
			Std. Error		8	5	13
			Range		500- 625	510- 635	580- 625
			Sample Size	0	23	48	3
		F	Mean Length	507	533	534	543
			Std. Error	20	5	5	18
			Range	480- 545	490- 585	485- 590	525- 560
			Sample Size	3	27	38	2
	7/25 (7/25-31)	M	Mean Length	480	543	559	
			Std. Error	-	5	4	
			Range	480-480	490- 585	490- 625	
			Sample Size	1	27	42	0
		F	Mean Length	478	523	525	503
			Std. Error	13	5	4	18
			Range	465- 490	475- 595	460- 570	485- 520
			Sample Size	2	36	36	2

Appendix C.16. Mean length (mm) of chum salmon at the Tuluksak River weir based on escapement samples collected with a fish trap. [a] (page 6 of 21)

Year	Sample Dates (Stratum Dates)	Sex		Age Class 0.2	0.3	0.4	0.5
	8/1-2 (8/1-7)	M	Mean Length	515	527	541	565
			Std. Error	-	4	6	-
			Range	515- 515	460- 565	480- 600	565- 565
			Sample Size	1	27	25	1
		F	Mean Length	501	509	508	500
			Std. Error	15	4	5	-
			Range	450- 560	445- 585	435- 580	500- 500
			Sample Size	7	52	32	1
	8/8-11 (8/8-14)	M	Mean Length	475	520	539	
			Std. Error	-	7	8	
			Range	475- 475	475- 570	505- 565	
			Sample Size	1	14	7	0
		F	Mean Length	469	500	513	545
			Std. Error	8	3	5	-
			Range	430- 505	460- 565	425- 570	545- 545
			Sample Size	8	80	35	1
	8/15-17 (8/15-21)	M	Mean Length		534	598	
			Std. Error		6	9	
			Range		525- 550	580- 610	
			Sample Size	0	4	3	0
		F	Mean Length	474	492	514	
			Std. Error	15	4	6	
			Range	430- 495	460- 525	485- 550	
			Sample Size	4	23	13	0
	8/22-28,9/1,8-9 (8/22-9/10)	M	Mean Length		530	560	
			Std. Error		-	-	
			Range		530 -530	560- 560	
			Sample Size	0	1	1	0
		F	Mean Length	476	498	493	
			Std. Error	5	9	8	
			Range	470- 490	445- 580	430- 530	
			Sample Size	4	13	11	0
	Season	M	Mean Length	492	551	569	581
			Range	475- 515	460- 625	480- 680	525- 650
			Sample size	3	155	337	57
		F	Mean Length	493	523	532	540
			Range	430- 560	445- 615	425- 610	485- 620
			Sample size	28	274	280	28

Appendix C.16. Mean length (mm) of chum salmon at the Tuluksak River weir based on escapement samples collected with a fish trap. [a] (page 7 of 21)

Year	Sample Dates (Stratum Dates)	Sex		Age Class 0.2	0.3	0.4	0.5
1994	6/29-7/5 (6/29-7/9)	M	Mean Length		578	597	594
			Std. Error		7	3	12
			Range		515- 655	535- 655	550- 655
			Sample Size	0	23	87	10
		F	Mean Length		529	555	556
			Std. Error		6	4	11
			Range		500- 565	510- 625	515- 590
			Sample Size	0	11	39	6
	7/10-11 (7/10-16)	M	Mean Length		577	587	588
			Std. Error		6	5	9
			Range		515- 630	490- 560	550- 610
			Sample Size	0	24	47	7
		F	Mean Length		547	549	551
			Std. Error		7	5	12
			Range		495- 590	485- 600	530- 590
			Sample Size	0	17	33	5
	7/17-18 (7/17-23)	M	Mean Length		564	573	578
			Std. Error		5	5	19
			Range		510- 640	530- 620	540- 600
			Sample Size	0	37	30	3
		F	Mean Length		525	540	531
			Std. Error		5	4	3
			Range		465- 605	490- 595	525- 540
			Sample Size	0	33	35	4
	7/24 (7/24-30)	M	Mean Length		562	568	585
			Std. Error		5	7	-
			Range		510- 650	525- 620	585- 585
			Sample Size	0	36	17	1
		F	Mean Length		532	535	
			Std. Error		4	6	
			Range		435- 595	490- 585	
			Sample Size	0	58	25	0
	7/31-8/2 (7/31-8/6)	M	Mean Length	543	558	570	525
			Std. Error	18	5	10	-
			Range	525- 560	475- 630	520- 630	525- 525
			Sample Size	2	41	13	1
		F	Mean Length	516	528	541	
			Std. Error	8	3	6	
			Range	500- 540	440- 595	505- 615	
			Sample Size	5	70	18	0

Appendix C.16. Mean length (mm) of chum salmon at the Tuluksak River weir based on escapement samples collected with a fish trap. [a] (page 8 of 21)

Year	Sample Dates (Stratum Dates)	Sex		Age Class 0.2	0.3	0.4	0.5
	8/7-10,14-17,21 9/4-5,7 (8/7-9/11)	M	Mean Length		553	554	
			Std. Error		7	8	
			Range		515- 605	520- 605	
			Sample Size	0	19	12	0
		F	Mean Length	486	515	517	
			Std. Error	9	4	5	
			Range	465- 535	430- 565	490- 565	
			Sample Size	7	57	18	0
	Season	M	Mean Length	543	566	581	585
			Range	525- 560	475- 655	490- 655	525- 655
			Sample size	2	180	206	22
		F	Mean Length	503	530	542	542
			Range	465- 540	430- 605	484- 625	515- 590
			Sample size	12	246	168	15
2001	7/11-12 (6/29-7/14)	M	Mean Length		603	615	
			Std. Error		7	5	
			Range		555- 650	565- 690	
			Sample Size	0	15	33	0
		F	Mean Length		570	593	
			Std. Error		6	7	
			Range		530- 620	560- 620	
			Sample Size	0	13	7	0
	7/16-19 (7/15-21)	M	Mean Length		571	602	
			Std. Error		4	7	
			Range		500- 690	520- 680	
			Sample Size	0	78	32	0
		F	Mean Length		556	573	
			Std. Error		4	8	
			Range		490- 630	490- 620	
			Sample Size	0	58	17	0
	7/23-25 (7/22-28)	M	Mean Length		568	595	
			Std. Error		3	9	
			Range		510- 650	560- 655	
			Sample Size	0	70	11	0
		F	Mean Length	495	540	559	
			Std. Error		3	14	
			Range	495- 495	490- 600	510- 605	
			Sample Size	1	67	6	0

Appendix C.16. Mean length (mm) of chum salmon at the Tuluksak River weir based on escapement samples collected with a fish trap. [a] (page 9 of 21)

Year	Sample Dates (Stratum Dates)	Sex		Age Class 0.2	0.3	0.4	0.5
	7/30-31 (7/29-8/3)	M	Mean Length	520	562	603	
			Std. Error	-	3	18	
			Range	520- 520	480- 620	535- 655	
			Sample Size	1	79	6	0
		F	Mean Length		540	552	
			Std. Error		3	16	
			Range		490- 610	490- 575	
			Sample Size	0	56	5	0
	8/6-9 (8/4-11)	M	Mean Length		570	595	
			Std. Error		4	35	
			Range		500- 630	560- 630	
			Sample Size	0	46	2	0
		F	Mean Length	498	539	580	
			Std. Error	23	2	-	
			Range	475- 520	490- 585	580- 580	
			Sample Size	2	78	1	0
	8/13-15,27 (8/12-9/10)	M	Mean Length		553	610	
			Std. Error		6	30	
			Range		495- 610	580- 640	
			Sample Size	0	25	2	0
		F	Mean Length		533	518	
			Std. Error		3	33	
			Range		465- 605	485- 550	
			Sample Size	0	95	2	0
	Season	M	Mean Length	520	572	609	
			Range	520- 520	480- 690	520- 690	
			Sample Size	1	313	86	0
		F	Mean Length	496	546	577	
			Range	475- 520	465- 630	485- 620	
			Sample Size	3	367	38	0
2002	6/26-28 (6/10-29)	M	Mean Length		605	610	645
			Std. Error		10	8	5
			Range		580- 630	540- 710	640- 650
			Sample Size	0	4	19	2
		F	Mean Length		571	592	550
			Std. Error		7	11	-
			Range		540- 600	520- 640	550- 550
			Sample Size	0	9	11	1

Appendix C.16. Mean length (mm) of chum salmon at the Tuluksak River weir based on escapement samples collected with a fish trap. [a] (page 10 of 21)

Year	Sample Dates (Stratum Dates)	Sex		Age Class 0.2	0.3	0.4	0.5
	7/1-5 (6/30-7/6)	M	Mean Length		603	612	
			Std. Error		4	6	
			Range		570- 635	520- 670	
			Sample Size	0	26	27	0
		F	Mean Length		574	578	
			Std. Error		5	6	
			Range		530- 610	540- 640	
			Sample Size	0	21	24	0
	7/8-11 (7/7-13)	M	Mean Length		589	591	
			Std. Error		4	4	
			Range		520- 680	530- 640	
			Sample Size	0	49	45	0
		F	Mean Length		557	553	
			Std. Error		3	5	
			Range		500- 625	500- 605	
			Sample Size	0	51	24	0
	7/15-16 (7/14-19)	M	Mean Length		581	604	650
			Std. Error		4	4	-
			Range		520- 650	540- 710	650- 650
			Sample Size	0	50	57	1
		F	Mean Length	545	550	569	
			Std. Error	-	4	6	
			Range	545- 545	500- 610	520- 660	
			Sample Size	1	42	27	0
	7/22-24,26 (7/20-27)	M	Mean Length	540	572	575	
			Std. Error	7	5	7	
			Range	520- 570	450- 670	500- 655	
			Sample Size	9	57	29	0
		F	Mean Length	508	535	536	
			Std. Error	14	4	6	
			Range	470- 560	480- 590	480- 580	
			Sample Size	6	47	23	0
	7/29-8/1 (7/28-8/3)	M	Mean Length	530	553	555	520
			Std. Error	4	6	9	-
			Range	510- 570	510- 680	485- 640	520- 520
			Sample Size	18	39	22	1
		F	Mean Length	495	516	536	
			Std. Error	7	4	9	
			Range	400- 560	470- 580	490- 620	
			Sample Size	21	34	13	0

Appendix C.16. Mean length (mm) of chum salmon at the Tuluksak River weir based on escapement samples collected with a fish trap. [a] (page 11 of 21)

Year	Sample Dates (Stratum Dates)	Sex		Age Class 0.2	0.3	0.4	0.5
	8/5-8 (8/4-14)	M	Mean Length	520	551	552	540
			Std. Error	9	7	18	-
			Range	440- 590	500- 620	520- 620	540- 540
			Sample Size	16	19	5	1
		F	Mean Length	485	519	540	
			Std. Error	12	5	9	
			Range	420- 590	450- 600	500- 580	
			Sample Size	15	40	9	0
	8/19-21 (8/15-9/10)	M	Mean Length	490	510	510	
			Std. Error	-	15	10	
			Range	490- 490	490- 540	500- 520	
			Sample Size	1	3	2	0
		F	Mean Length	480	555		
			Std. Error	13	13		
			Range	450- 510	540- 580		
			Sample Size	4	3	0	0
	Season	M	Mean Length	528	577	594	617
			Range	440- 590	450- 680	485- 710	520- 650
			Sample Size	44	247	206	5
		F	Mean Length	494	545	561	550
			Range	400- 590	450- 625	480- 660	550- 550
			Sample Size	47	247	131	1
2003	6/26,7/1-6 (6/16-7/6)	M	Mean Length		590	595	620
			Std. Error		3	12	25
			Range		530- 670	540- 675	595- 645
			Sample Size	0	69	12	2
		F	Mean Length	550	563	581	580
			Std. Error	-	6	6	15
			Range	550- 550	515- 630	560- 600	565- 595
			Sample Size	1	24	7	2
	7/7-10,12 (7/7-12)	M	Mean Length	580	589	600	553
			Std. Error	-	4	10	13
			Range	580- 580	490- 715	525- 685	540- 565
			Sample Size	1	82	17	2
		F	Mean Length	510	556	585	
			Std. Error	35	4	6	
			Range	475- 545	360- 610	560- 600	
			Sample Size	2	65	6	0

Appendix C.16. Mean length (mm) of chum salmon at the Tuluksak River weir based on escapement samples collected with a fish trap. [a] (page 12 of 21)

Year	Sample Dates (Stratum Dates)	Sex		Age Class 0.2	0.3	0.4	0.5
	7/13-15 (7/13-17)	M	Mean Length		578	605	640
			Std. Error		3	10	-
			Range		505- 640	540- 675	640- 640
			Sample Size	0	98	14	1
		F	Mean Length	545	544	544	550
			Std. Error	30	3	12	30
			Range	515- 575	495- 595	500- 600	520- 580
			Sample Size	2	73	8	2
	7/20-22 (7/18-24)	M	Mean Length		570	577	550
			Std. Error		3	11	-
			Range		475- 675	510- 640	550- 550
			Sample Size	0	113	11	1
		F	Mean Length	515	531	560	
			Std. Error	5	3	5	
			Range	510- 520	450- 600	555- 565	
			Sample Size	2	58	2	0
	7/27-28 (7/25-31)	M	Mean Length	538	554	584	565
			Std. Error	8	3	8	-
			Range	530- 555	490- 630	540- 615	565- 565
			Sample Size	3	131	11	1
		F	Mean Length	503	531	545	
			Std. Error	18	4	-	
			Range	485- 520	465- 570	545- 545	
			Sample Size	2	45	1	0
	8/3-4 (8/1-7)	M	Mean Length	523	559	594	650
			Std. Error	15	3	15	-
			Range	480- 550	475- 650	555- 660	650- 650
			Sample Size	4	116	8	2
		F	Mean Length	537	542		
			Std. Error	22	4		
			Range	505- 580	480- 620		
			Sample Size	3	54	0	0
	8/10 (8/8-9/14)	M	Mean Length	540	540	540	625
			Std. Error	-	5	-	-
			Range	540- 540	500- 620	540- 540	625- 625
			Sample Size	1	26	1	1
		F	Mean Length	490	533		
			Std. Error	-	7		
			Range	490- 490	495- 590		
			Sample Size	1	15	0	0

Appendix C.16. Mean length (mm) of chum salmon at the Tuluksak River weir based on escapement samples collected with a fish trap. [a] (page 13 of 21)

Year	Sample Dates (Stratum Dates)	Sex		Age Class 0.2	0.3	0.4	0.5
	Season	M	Mean Length	535	562	588	602
			Range	480- 580	475- 715	510- 685	540- 650
			Sample Size	9	635	74	10
		F	Mean Length	516	538	564	566
			Range	475- 580	360- 630	500- 600	520- 595
			Sample Size	13	334	24	4
2004	6/23-24,26-30 (6/20-7/2)	M	Mean Length	570	591	605	580
			Std. Error	-	6	2	21
			Range	570- 570	540- 650	545- 665	550- 620
			Sample Size	1	27	131	3
		F	Mean Length	525	571	573	
			Std. Error	-	5	3	
			Range	525- 525	535- 615	530- 615	
			Sample Size	1	20	62	0
	7/4-5 (7/3-8)	M	Mean Length	543	580	600	
			Std. Error	23	6	3	
			Range	520- 565	510- 655	540- 670	
			Sample Size	2	33	84	0
		F	Mean Length	528	556	563	
			Std. Error	7	4	4	
			Range	515- 540	515- 600	520- 610	
			Sample Size	3	32	38	0
	7/12-13 (7/9-16)	M	Mean Length	536	571	594	575
			Std. Error	5	5	4	-
			Range	500- 575	510- 650	520- 670	575- 575
			Sample Size	19	40	56	1
		F	Mean Length	522	543	561	
			Std. Error	9	5	10	
			Range	470- 550	510- 610	500- 770	
			Sample Size	9	31	25	0
	7/19 (7/17-23)	M	Mean Length	544	562	577	
			Std. Error	3	4	5	
			Range	520- 570	500- 605	490- 640	
			Sample Size	18	31	41	0
		F	Mean Length	512	545	546	
			Std. Error	5	4	7	
			Range	475- 550	470- 605	465- 600	
			Sample Size	25	51	21	0

Appendix C.16. Mean length (mm) of chum salmon at the Tuluksak River weir based on escapement samples collected with a fish trap. [a] (page 14 of 21)

Year	Sample Dates (Stratum Dates)	Sex		Age Class 0.2	0.3	0.4	0.5
	7/26-28 (7/24-31)	M	Mean Length	531	571	576	
			Std. Error	4	6	7	
			Range	460- 580	500- 695	470- 650	
			Sample Size	38	45	30	0
		F	Mean Length	514	529	554	
			Std. Error	4	6	9	
			Range	450- 560	455- 610	480- 600	
			Sample Size	34	27	12	0
	8/2-4,10,23-24,9/4 (8/1-9/10)	M	Mean Length	523	555	572	
			Std. Error	5	5	7	
			Range	450- 570	470- 600	500- 650	
			Sample Size	35	29	27	0
		F	Mean Length	501	517	537	
			Std. Error	3	4	8	
			Range	450- 545	460- 565	450- 595	
			Sample Size	51	34	19	0
	Season	M	Mean Length	534	571	593	578
			Range	450- 580	470- 695	470- 670	550- 620
			Sample Size	113	205	369	4
		F	Mean Length	511	543	559	
			Range	450- 560	455- 615	450- 770	
			Sample Size	123	195	177	0
2005	6/27-29,7/2 (6/24-7/3)	M	Mean Length	515	583	613	607
			Std. Error	-	4	9	12
			Range	515- 515	510- 650	570- 660	595- 630
			Sample Size	1	55	12	3
		F	Mean Length		555	571	540
			Std. Error		3	12	-
			Range		510- 640	540- 600	540- 540
			Sample Size	0	62	5	1
	7/4-7 (7/4-9)	M	Mean Length		595	635	
			Std. Error		3	33	
			Range		525- 650	575- 690	
			Sample Size	0	103	3	0
		F	Mean Length	500	565	588	580
			Std. Error	5	3	13	-
			Range	495- 505	490- 630	550- 610	580- 580
			Sample Size	2	71	4	1

Appendix C.16. Mean length (mm) of chum salmon at the Tuluksak River weir based on escapement samples collected with a fish trap. [a] (page 15 of 21)

Year	Sample Dates (Stratum Dates)	Sex		Age Class 0.2	0.3	0.4	0.5
	7/11-12 (7/10-15)	M	Mean Length	520	584	600	590
			Std. Error	-	3	8	-
			Range	520- 520	510- 675	575- 620	590- 590
			Sample Size	1	121	5	1
		F	Mean Length	524	562		
			Std. Error	2	5		
			Range	520- 530	500- 620		
			Sample Size	4	44	0	0
	7/19-20 (7/16-23)	M	Mean Length	510	577	570	
			Std. Error	-	3	8	
			Range	510- 510	525- 695	555- 590	
			Sample Size	1	85	4	0
		F	Mean Length	533	552		
			Std. Error	8	3		
			Range	515- 555	475- 620		
			Sample Size	5	82	0	0
	7/26-27 (7/24-31)	M	Mean Length	522	565	608	
			Std. Error	14	3	25	
			Range	495- 540	475- 670	560- 640	
			Sample Size	3	111	3	0
		F	Mean Length	513	535		
			Std. Error	9	4		
			Range	465- 555	470- 600		
			Sample Size	9	69	0	0
	8/2-4 (8/1-6)	M	Mean Length	519	562	590	
			Std. Error	9	3	20	
			Range	500- 540	445- 640	570- 630	
			Sample Size	4	97	3	0
		F	Mean Length	504	524		
			Std. Error	8	5		
			Range	460- 540	435- 610		
			Sample Size	8	56	0	0
	8/9-25 (8/7-9/9)	M	Mean Length	523	559		
			Std. Error	8	4		
			Range	515- 530	485- 640		
			Sample Size	2	59	0	0
		F	Mean Length	510	524	560	
			Std. Error	10	6	-	
			Range	455- 565	460- 595	560- 560	
			Sample Size	12	34	1	0

Appendix C.16. Mean length (mm) of chum salmon at the Tuluksak River weir based on escapement samples collected with a fish trap. [a] (page 16 of 21)

Year	Sample Dates (Stratum Dates)	Sex		Age Class 0.2	0.3	0.4	0.5
	Season	M	Mean Length	519	577	595	595
			Range	495- 540	445- 695	555- 690	590- 630
			Sample Size	12	631	30	4
		F	Mean Length	519	549	580	569
			Range	455- 565	435- 640	540- 610	540- 580
			Sample Size	40	418	10	2
2006	7/3-5 (6/24-7/7)	M	Mean Length		591	598	
			Std. Error		5	4	
			Range		540- 640	525- 670	
			Sample Size	0	32	59	0
		F	Mean Length		550	571	
			Std. Error		6	4	
			Range		530- 610	510- 665	
			Sample Size	0	14	46	0
	7/9-10 (7/8-13)	M	Mean Length		560	569	575
			Std. Error		7	3	-
			Range		480- 655	490- 630	575- 575
			Sample Size	0	35	70	1
		F	Mean Length	508	526	535	
			Std. Error	19	5	5	
			Range	470- 560	465- 575	465- 590	
			Sample Size	4	31	38	0
	7/16-17 (7/14-20)	M	Mean Length	513	554	571	
			Std. Error	13	4	4	
			Range	500- 525	505- 630	505- 650	
			Sample Size	2	45	54	0
		F	Mean Length	490	529	541	
			Std. Error	-	5	5	
			Range	490- 490	445- 610	475- 610	
			Sample Size	1	47	39	0
	7/23 (7/21-27)	M	Mean Length		571	583	
			Std. Error		5	6	
			Range		505- 650	485- 670	
			Sample Size	0	44	45	0
		F	Mean Length	499	522	530	
			Std. Error	9	4	6	
			Range	460- 540	470- 585	470- 590	
			Sample Size	7	43	34	0

Appendix C.16. Mean length (mm) of chum salmon at the Tuluksak River weir based on escapement samples collected with a fish trap. [a] (page 17 of 21)

Year	Sample Dates (Stratum Dates)	Sex		Age Class 0.2	0.3	0.4	0.5
	7/30 (7/28-8/3)	M	Mean Length	535	564	574	
			Std. Error	5	4	6	
			Range	530- 540	475- 630	500- 630	
			Sample Size	2	60	27	0
		F	Mean Length	481	518	529	
			Std. Error	18	4	5	
			Range	400- 530	420- 570	440- 580	
			Sample Size	7	51	31	0
	8/6-9/5 (8/4-9/10)	M	Mean Length	508	559	564	
			Std. Error	4	6	7	
			Range	500- 515	490- 620	515- 635	
			Sample Size	3	28	19	0
		F	Mean Length	484	506	526	
			Std. Error	4	3	4	
			Range	460- 515	450- 560	450- 575	
			Sample Size	13	81	43	0
	Season	M	Mean Length	516	566	579	575
			Range	500- 540	475- 655	485- 670	575- 575
			Sample Size	7	244	274	1
		F	Mean Length	491	522	543	
			Range	400- 560	420- 610	440- 665	
			Sample Size	32	267	231	0
2007	7/1-4 (6/20-7/6)	M	Mean Length		580	590	608
			Std. Error		3	3	7
			Range		510- 640	540- 640	575- 625
			Sample Size	0	79	55	8
		F	Mean Length	540	560	555	590
			Std. Error	-	5	5	20
			Range	540- 540	500- 600	530- 580	570- 610
			Sample Size	1	25	12	2
	7/8-9 (7/7-12)	M	Mean Length		571	589	584
			Std. Error		3	5	17
			Range		490- 650	490- 670	560- 635
			Sample Size	0	90	46	4
		F	Mean Length	547	543	566	575
			Std. Error	6	6	5	-
			Range	535- 555	480- 610	530- 590	575- 575
			Sample Size	3	31	13	1

Appendix C.16. Mean length (mm) of chum salmon at the Tuluksak River weir based on escapement samples collected with a fish trap. [a] (page 18 of 21)

Year	Sample Dates (Stratum Dates)	Sex		Age Class 0.2	0.3	0.4	0.5
	7/15 (7/13-18)	M	Mean Length	548	559	571	588
			Std. Error	13	2	5	3
			Range	535- 560	500- 630	515- 635	585- 590
			Sample Size	2	96	25	2
		F	Mean Length	526	532	551	570
			Std. Error	12	4	8	-
			Range	480- 555	500- 585	485- 590	570- 570
			Sample Size	6	31	14	1
	7/22 (7/19-25)	M	Mean Length	550	557	579	575
			Std. Error	11	3	5	14
			Range	520- 570	470- 650	515- 650	545- 610
			Sample Size	4	101	31	5
		F	Mean Length	539	530	524	
			Std. Error	7	6	10	
			Range	520- 550	470- 600	490- 565	
			Sample Size	4	30	8	0
	7/29-30 (7/26-8/2)	M	Mean Length		555	563	558
			Std. Error		3	8	3
			Range		490- 620	515- 625	555- 560
			Sample Size	0	93	19	2
		F	Mean Length	520	531	534	555
			Std. Error	9	4	10	-
			Range	505- 535	425- 590	470- 575	555- 555
			Sample Size	3	58	9	1
	8/5 (8/3-9/10)	M	Mean Length	550	549	549	550
			Std. Error	-	6	19	-
			Range	550- 550	470- 630	470- 640	550- 550
			Sample Size	1	35	8	1
		F	Mean Length	500	519	520	
			Std. Error	-	4	10	
			Range	500- 500	450- 590	510- 530	
			Sample Size	1	60	2	0
	Season	M	Mean Length	549	559	576	578
			Range	520- 570	470- 650	470- 670	545- 635
			Sample Size	7	494	184	22
		F	Mean Length	529	529	543	569
			Range	480- 555	425- 610	470- 590	555- 610
			Sample Size	18	235	58	5

Appendix C.16. Mean length (mm) of chum salmon at the Tuluksak River weir based on escapement samples collected with a fish trap. [a] (page 19 of 21)

Year	Sample Dates (Stratum Dates)	Sex		Age Class 0.2	0.3	0.4	0.5
2008	6/30-7/4 (6/15-7/4)	M	Mean Length		565	586	593
			Std. Error		-	2	9
			Range		565-565	530-655	560-640
			Sample Size	0	1	103	8
		F	Mean Length		545	561	556
			Std. Error		23	3	13
			Range		515-590	490-595	520-585
			Sample Size	0	3	37	5
	7/5-7 (7/5-10)	M	Mean Length	565	590	590	584
			Std. Error	-	-	2	13
			Range	565-565	590-590	520-670	555-610
			Sample Size	1	1	121	4
		F	Mean Length		558	563	568
			Std. Error		38	3	9
			Range		520-595	510-620	550-590
			Sample Size	0	2	65	4
	7/13-14 (7/11-18)	M	Mean Length	530	573	582	609
			Std. Error	-	8	3	21
			Range	530-530	540-625	525-660	555-660
			Sample Size	1	10	102	5
		F	Mean Length		550	563	578
			Std. Error		10	3	7
			Range		515-590	505-605	565-590
			Sample Size	0	6	54	3
	7/21 (7/19-7/24)	M	Mean Length	565	559	582	590
			Std. Error	-	6	3	12
			Range	565-565	510-610	525-670	540-650
			Sample Size	1	19	101	8
		F	Mean Length		546	561	560
			Std. Error		6	3	13
			Range		500-585	500-605	535-580
			Sample Size	0	13	45	3
	7/27 (7/25-8/1)	M	Mean Length	555	553	589	570
			Std. Error	-	7	5	20
			Range	555-555	505-640	540-685	550-590
			Sample Size	1	20	53	2
		F	Mean Length	500	538	556	543
			Std. Error	-	6	3	19
			Range	500-500	490-600	515-610	510-575
			Sample Size	2	24	68	3

Appendix C.16. Mean length (mm) of chum salmon at the Tuluksak River weir based on escapement samples collected with a fish trap. [a] (page 20 of 21)

Year	Sample Dates (Stratum Dates)	Sex		Age Class 0.2	0.3	0.4	0.5
	8/3-4 (8/2-8/6)	M	Mean Length	515	550	560	548
			Std. Error	-	5	4	10
			Range	515-515	505-590	485-615	520-565
			Sample Size	1	19	55	4
		F	Mean Length		527	535	525
			Std. Error		4	3	5
			Range		490-565	490-595	520-530
			Sample Size	0	33	88	2
	8/10-13,17 (8/7-9/20)	M	Mean Length		549	551	565
			Std. Error		6	6	20
			Range		470-590	465-6358	520-610
			Sample Size	0	24	45	4
		F	Mean Length	520	523	525	535
			Std. Error	-	3	3	5
			Range	520-520	480-580	455-595	525-540
			Sample Size	1	44	74	3
	Season	M	Mean Length	547	558	582	589
			Range	515-565	470-640	465-685	520-660
			Sample Size	5	94	580	35
		F	Mean Length	503	536	554	559
			Range	500-520	480-600	455-620	510-590
			Sample Size	3	125	431	23
2009	6/30-7/20 (6/26-7/20)	M	Mean Length	554	568	582	592
			Std. Error	8	2	6	6
			Range	512- 590	468- 662	503- 676	530- 630
			Sample Size	12	268	47	16
		F	Mean Length	531	539	552	558
			Std. Error	9	2	6	14
			Range	480- 570	470- 630	503- 614	528- 605
			Sample Size	11	147	21	5
	7/26,27 (7/21-28)	M	Mean Length	502	560	553	
			Std. Error	26	3	11	
			Range	407- 556	482- 623	495- 660	
			Sample Size	5	107	17	0
		F	Mean Length	505	525	529	
			Std. Error	10	6	13	
			Range	490- 525	408- 580	502- 572	
			Sample Size	3	40	5	0

Appendix C.16. Mean length (mm) of chum salmon at the Tuluksak River weir based on escapement samples collected with a fish trap. [a] (page 21 of 21)

Year	Sample Dates (Stratum Dates)	Sex		Age Class 0.2	0.3	0.4	0.5
	8/2-17 (7/29-9/9)	M	Mean Length	550	551	550	562
			Std. Error	15	2	6	14
			Range	518- 590	465- 624	495- 623	530- 602
			Sample Size	4	223	27	5
		F	Mean Length	467	517	517	562
			Std. Error	8	3	7	17
			Range	455- 490	410- 606	480- 582	534- 600
			Sample Size	4	133	18	4
	Season	M	Mean Length	528	559	563	584
			Range	407- 590	465- 662	495- 676	530- 630
			Sample Size	21	598	91	21
		F	Mean Length	508	526	532	560
			Range	455- 570	408- 630	480- 614	528- 605
			Sample Size	18	320	44	9
	Grand Total [b]	M	Mean Length	528	564	584	587
			Range	407- 605	400- 665	470- 890	530- 655
			Sample size	231	4,324	3,008	204
		F	Mean Length	505	533	552	557
			Range	430- 570	408- 650	425- 635	440- 635
			Sample size	390	3,759	1,946	90

[a] "Season" mean lengths are weighted by the escapement passage in each stratum.

[b] "Grand Total" mean lengths are simple averages of the "Season" mean lengths.

Appendix C.17. Age and sex of chum salmon at the Kwethluk River weir based on escapement samples collected with a fish trap. [ab] (page 1 of 6)

Year	Sample Dates (Stratum Dates)	Sample Size	Sex	Age Class 0.2 Esc.	0.2 %	0.3 Esc.	0.3 %	0.4 Esc.	0.4 %	0.5 Esc.	0.5 %	Total Esc.	Total %
1992	6/24-25	153	M	0	0.0	124	9.2	730	54.2	88	6.5	942	69.9
	(6/24-26)		F	0	0.0	62	4.6	317	23.5	27	2.0	405	30.1
			Subtotal	0	0.0	186	13.8	1,047	77.7	114	8.5	1,347	100.0
	6/28	145	M	0	0.0	422	13.1	1,397	43.4	45	1.4	1,863	57.9
	(6/28-7/4)		F	0	0.0	222	6.9	1,088	33.8	45	1.4	1,355	42.1
			Subtotal	0	0.0	644	20	2,484	77.2	90	2.8	3,218	100.0
	7/5	152	M	0	0.0	927	16.4	1,453	25.7	187	3.3	2,567	45.4
	(7/5-11)		F	0	0.0	1,374	24.3	1,634	28.9	74	1.3	3,088	54.6
			Subtotal	0	0.0	2,302	40.7	3,088	54.6	260	4.6	5,655	100.0
	7/13	155	M	0	0.0	1,426	24.5	786	13.5	151	2.6	2,363	40.6
	(7/12-18)		F	111	1.9	2,328	40.0	937	16.1	76	1.3	3,458	59.4
			Subtotal	111	1.9	3,755	64.5	1,723	29.6	227	3.9	5,821	100.0
	7/19	151	M	0	0.0	1,541	27.2	640	11.3	0	0.0	2,175	38.4
	(7/19-25)		F	187	3.3	2,362	41.7	940	16.6	0	0.0	3,489	61.6
			Subtotal	187	3.3	3,902	68.9	1,580	27.9	0	0.0	5,664	100.0
	7/27	152	M	0	0.0	1,505	30.9	385	7.9	0	0.0	1,889	38.8
	(7/26-8/1)		F	97	2.0	2,371	48.7	511	10.5	0	0.0	2,980	61.2
			Subtotal	97	2.0	3,876	79.6	896	18.4	0	0.0	4,869	100.0
	8/3-4	151	M	19	0.7	730	26.5	127	4.6	0	0.0	875	31.8
	(8/2-8)		F	127	4.6	1,569	57.0	182	6.6	0	0.0	1,878	68.2
			Subtotal	146	5.3	2,299	83.5	308	11.2	0	0.0	2,753	100.0
	8/10-11,14-15	91	M	0	0.0	199	17.6	62	5.5	0	0.0	261	23.1
	(8/9-15)		F	25	2.2	757	67.0	75	6.6	12	1.1	869	76.9
			Subtotal	25	2.2	956	84.6	137	12.1	12	1.1	1,130	100.0
	8/16-17,20	48	M	0	0.0	82	25.0	7	2.1	0	0.0	88	27.1
	(8/16-20)		F	0	0.0	217	66.7	20	6.2	0	0.0	238	72.9
			Subtotal	0	0.0	299	91.7	27	8.3	0	0.0	326	100.0
	Season	1,198	M	19	0.1	6,954	22.6	5,586	18.1	471	1.5	13,024	42.3
			F	546	1.8	11,263	36.6	5,704	18.5	234	0.8	17,759	57.7
			Total	566	1.8	18,218	59.2	11,290	36.7	704	2.3	30,783	100.0
2000	6/26-28	65	M	0	0.0	82	16.9	216	44.6	15	3.1	312	64.6
	(6/23-30)		F	0	0.0	44	9.3	126	26.2	0	0.0	171	35.4
			Subtotal	0	0.0	126	26.2	342	70.8	15	3.1	483	100.0
	7/3-5	125	M	0	0.0	403	24.0	711	42.4	13	0.8	1,127	67.2
	(7/1-7)		F	0	0.0	134	8.0	416	24.8	0	0.0	550	32.8
			Subtotal	0	0.0	537	32.0	1,127	67.2	13	0.8	1,677	100.0
	7/10-12	174	M	0	0.0	982	27.6	654	18.4	20	0.6	1,657	46.6
	(7/8-15)		F	0	0.0	1,186	33.3	716	20.1	0	0.0	1,902	53.4
			Subtotal	0	0.0	2,168	60.9	1,370	38.5	20	0.6	3,559	100.0
	7/17-20	176	M	0	0.0	833	34.6	409	17.1	0	0.0	1,242	51.7
	(7/16-22)		F	14	0.6	778	32.4	369	15.3	0	0.0	1,161	48.3
			Subtotal	14	0.6	1,611	67.0	778	32.4	0	0.0	2,403	100.0
	7/24-27	195	M	10	0.5	782	39.0	216	10.8	0	0.0	1,009	50.3

Appendix C.17. Age and sex of chum salmon at the Kwethluk River weir based on escapement samples collected with a fish trap. [ab] (page 2 of 6)

Year	Sample Dates (Stratum Dates)	Sample Size	Sex	Age Class 0.2 Esc.	0.2 %	0.3 Esc.	0.3 %	0.4 Esc.	0.4 %	0.5 Esc.	0.5 %	Total Esc.	Total %
	(7/23-29)		F	0	0.0	865	43.1	134	6.6	0	0.0	998	49.7
			Subtotal	10	0.5	1,647	82.1	350	17.4	0	0.0	2,007	100.0
	7/31-8/1	207	M	16	1.5	291	26.6	74	6.8	6	0.5	386	35.3
	(7/30-8/4)		F	21	1.9	608	55.5	74	6.7	5	0.5	709	64.7
			Subtotal	37	3.4	899	82.1	148	13.5	11	1.0	1,095	100.0
	8/7-8,20,29	53	M	0	0.0	132	28.3	35	7.6	0	0.0	167	35.8
	(8/5-9/15)		F	26	5.7	220	47.2	53	11.3	0	0.0	300	64.2
			Subtotal	26	5.7	352	75.5	88	18.9	0	0.0	467	100.0
	Season	995	M	26	0.2	3,504	30.0	2,316	19.8	54	0.5	5,900	50.5
			F	61	0.5	3,837	32.8	1,888	16.2	5	0.0	5,791	49.5
			Total	87	0.7	7,341	62.8	4,204	36.0	59	0.5	11,691	100.0
2002	7/1-3	146	M	0	0.0	1,628	38.3	1,105	26.0	87	2.0	2,820	66.4
	(6/28-7/5)		F	29	0.7	785	18.5	581	13.7	29	0.7	1,424	33.6
			Subtotal	29	0.7	2,413	56.8	1,686	39.7	116	2.7	4,244	100.0
	7/7-8,11	192	M	86	1.1	2,913	35.4	1,199	14.6	43	0.5	4,242	51.6
	(7/6-13)		F	43	0.5	3,042	37.0	900	10.9	0	0.0	3,984	48.4
			Subtotal	129	1.6	5,955	72.4	2,099	25.5	43	0.5	8,226	100.0
	7/15	173	M	40	0.6	2,256	32.9	792	11.6	119	1.8	3,206	46.8
	(7/14-18)		F	0	0.0	2,732	39.9	791	11.5	119	1.7	3,642	53.2
			Subtotal	40	0.6	4,988	72.8	1,583	23.1	238	3.5	6,848	100.0
	7/22	181	M	207	2.8	3,023	40.4	828	11.1	0	0.0	4,059	54.1
	(7/19-25)		F	166	2.2	2,941	39.2	332	4.4	0	0.0	3,437	45.9
			Subtotal	373	5.0	5,964	79.6	1,160	15.5	0	0.0	7,496	100.0
	7/29	182	M	344	7.7	1,720	38.4	492	11.0	25	0.6	2,580	57.7
	(7/26-8/1)		F	123	2.7	1,474	33.0	270	6.0	24	0.5	1,892	42.3
			Subtotal	467	10.4	3,194	71.4	762	17.0	49	1.1	4,472	100.0
	8/5-7	176	M	198	6.8	827	28.4	149	5.1	17	0.6	1,190	40.9
	(8/2-13)		F	513	17.6	975	33.5	231	8.0	0	0.0	1,720	59.1
			Subtotal	711	24.4	1,802	61.9	380	13.1	17	0.6	2,910	100.0
	8/19-20	16	M	91	18.8	121	25.0	0	0.0	0	0.0	212	43.8
	(8/14-9/19)		F	30	6.2	243	50.0	0	0.0	0	0.0	273	56.2
			Subtotal	121	25.0	364	75.0	0	0.0	0	0.0	485	100.0
	Season	1,066	M	966	2.8	12,488	36.0	4,564	13.2	290	0.8	18,309	52.8
			F	903	2.6	12,191	35.2	3,106	8.9	172	0.5	16,372	47.2
			Total	1,869	5.4	24,679	71.2	7,670	22.1	462	1.3	34,681	100.0
2003	6/22-28	162	M	0	0.0	161	37.0	108	24.7	14	3.1	282	64.8
	(6/20-29)		F	0	0.0	99	22.9	48	11.1	5	1.2	153	35.2
			Subtotal	0	0.0	260	59.9	156	35.8	19	4.3	435	100.0

Appendix C.17. Age and sex of chum salmon at the Kwethluk River weir based on escapement samples collected with a fish trap. [ab] (page 3 of 6)

Year	Sample Dates (Stratum Dates)	Sample Size	Sex	Age Class 0.2 Esc.	0.2 %	0.3 Esc.	0.3 %	0.4 Esc.	0.4 %	0.5 Esc.	0.5 %	Total Esc.	Total %
	6/30-7/2	197	M	6	0.5	492	41.1	328	27.4	6	0.5	832	69.5
	(6/30-7/4)		F	0	0.0	280	23.4	73	6.1	12	1.0	365	30.5
			Subtotal	6	0.5	772	64.5	401	33.5	18	1.5	1,197	100.0
	7/7-8	207	M	0	0.0	1,653	43.0	724	18.8	56	1.4	2,433	63.3
	(7/5-11)		F	19	0.5	1,021	26.6	353	9.2	18	0.5	1,411	36.7
			Subtotal	19	0.5	2,674	69.6	1,077	28.0	74	1.9	3,844	100.0
	7/14	196	M	42	0.5	4,659	56.6	545	6.6	126	1.5	5,373	65.3
	(7/12-17)		F	84	1.0	2,309	28.1	420	5.1	42	0.5	2,854	34.7
			Subtotal	126	1.5	6,968	84.7	965	11.7	168	2.0	8,227	100.0
	7/21	194	M	52	0.5	4,484	44.8	825	8.2	0	0.0	5,361	53.6
	(7/18-24)		F	51	0.5	4,227	42.3	309	3.1	52	0.5	4,639	46.4
			Subtotal	103	1.0	8,711	87.1	1,134	11.3	52	0.5	10,000	100.0
	7/28	197	M	46	0.5	3,580	39.6	551	6.1	46	0.5	4,223	46.7
	(7/25-31)		F	184	2.0	4,453	49.2	183	2.0	0	0.0	4,820	53.3
			Subtotal	230	2.5	8,033	88.8	734	8.1	46	0.5	9,043	100.0
	8/4	194	M	61	1.0	2,576	43.3	245	4.1	0	0.0	2,883	48.5
	(8/1-7)		F	92	1.6	2,821	47.4	154	2.6	0	0.0	3,066	51.5
			Subtotal	153	2.6	5,397	90.7	399	6.7	0	0.0	5,949	100.0
	8/11-12	183	M	51	1.7	1,345	43.2	85	2.8	0	0.0	1,482	47.5
	(8/8-9/14)		F	119	3.8	1,397	44.8	119	3.8	0	0.0	1,635	52.5
			Subtotal	170	5.5	2,742	88.0	204	6.6	0	0.0	3,117	100.0
	Season	1,530	M	258	0.6	18,952	45.3	3,412	8.1	247	0.6	22,868	54.7
			F	549	1.3	16,606	39.7	1,659	4.0	130	0.3	18,944	45.3
			Total	807	1.9	35,558	85.0	5,071	12.1	377	0.9	41,812	100.0
2004	6/28-29	205	M	45	0.5	1,355	14.6	3,975	42.9	0	0.0	5,375	58.0
	(6/25-7/4)		F	0	0.0	1,084	11.7	2,755	29.8	45	0.5	3,885	42.0
			Subtotal	45	0.5	2,439	26.3	6,730	72.7	45	0.5	9,260	100.0
	7/7-9	175	M	406	5.1	1,939	24.6	2,074	26.3	0	0.0	4,419	56.0
	(7/5-12)		F	361	4.6	1,623	20.5	1,488	18.8	0	0.0	3,472	44.0
			Subtotal	767	9.7	3,562	45.1	3,562	45.1	0	0.0	7,891	100.0
	7/15	175	M	714	11.4	2,034	32.6	1,463	23.4	0	0.0	4,212	67.4
	(7/13-18)		F	321	5.2	1,107	17.7	607	9.7	0	0.0	2,034	32.6
			Subtotal	1,035	16.6	3,141	50.3	2,070	33.1	0	0.0	6,246	100.0
	7/20-21	173	M	814	13.9	1,492	25.4	1,152	19.7	0	0.0	3,458	59.0
	(7/19-24)		F	678	11.5	1,322	22.6	407	6.9	0	0.0	2,407	41.0
			Subtotal	1,492	25.4	2,814	48.0	1,559	26.6	0	0.0	5,865	100.0
	7/26	176	M	767	17.0	997	22.2	613	13.6	0	0.0	2,377	52.8
	(7/25-30)		F	741	16.5	971	21.6	409	9.1	0	0.0	2,121	47.2
			Subtotal	1,508	33.5	1,968	43.8	1,022	22.7	0	0.0	4,498	100.0

Appendix C.17. Age and sex of chum salmon at the Kwethluk River weir based on escapement samples collected with a fish trap. [ab] (page 4 of 6)

Year	Sample Dates (Stratum Dates)	Sample Size	Sex	Age Class 0.2 Esc.	0.2 %	0.3 Esc.	0.3 %	0.4 Esc.	0.4 %	0.5 Esc.	0.5 %	Total Esc.	Total %
	8/2-4	175	M	749	24.0	606	19.5	303	9.7	0	0.0	1,658	53.1
	(7/31-8/7)		F	659	21.1	482	15.4	321	10.3	0	0.0	1,462	46.9
			Subtotal	1,408	45.1	1,088	34.9	624	20.0	0	0.0	3,120	100.0
	8/9-10	146	M	149	13.0	149	13.0	86	7.5	0	0.0	383	33.6
	(8/8-13)		F	375	32.9	305	26.7	78	6.9	0	0.0	759	66.4
			Subtotal	524	45.9	454	39.7	164	14.4	0	0.0	1,142	100.0
	8/16-18	84	M	74	11.9	59	9.5	37	5.9	0	0.0	171	27.4
	(8/14-9/10)		F	238	38.1	186	29.8	30	4.8	0	0.0	453	72.6
			Subtotal	312	50.0	245	39.3	67	10.7	0	0.0	624	100.0
	Season	1,309	M	3,717	9.6	8,631	22.4	9,705	25.1	0	0.0	22,053	57.1
			F	3,374	8.7	7,079	18.3	6,095	15.8	45	0.1	16,593	42.9
			Total	7,091	18.3	15,710	40.7	15,800	40.9	45	0.1	38,646	100.0
2005	Season	0	M	No Saqmples									
			F	Weir Not Installed									
			Total										
2006	7/5-7	198	M	0	0.0	2,746	21.7	5,173	40.9	0	0.0	7,919	62.6
	(6/20-7/7)		F	0	0.0	1,724	13.7	3,002	23.7	0	0.0	4,726	37.4
			Subtotal	0	0.0	4,470	35.4	8,175	64.6	0	0.0	12,645	100.0
	7/9-12	189	M	0	0.0	3,458	26.4	4,289	32.8	0	0.0	7,747	59.3
	(7/8-14)		F	0	0.0	2,836	21.7	2,490	19.1	0	0.0	5,326	40.7
			Subtotal	0	0.0	6,294	48.1	6,779	51.9	0	0.0	13,073	100.0
	7/16	184	M	0	0.0	4,125	35.9	3,063	26.6	125	1.1	7,313	63.6
	(7/15-20)		F	125	1.1	1,938	16.8	2,125	18.5	0	0.0	4,187	36.4
			Subtotal	125	1.1	6,063	52.7	5,188	45.1	125	1.1	11,500	100.0
	7/23-25	190	M	70	1.6	1,245	27.9	986	22.1	47	1.1	2,348	52.6
	(7/21-27)		F	24	0.5	1,385	31.0	705	15.8	0	0.0	2,114	47.4
			Subtotal	94	2.1	2,630	58.9	1,691	37.9	47	1.1	4,462	100.0
	7/30-8/1	218	M	86	3.2	578	21.5	406	15.2	0	0.0	1,070	39.9
	(7/28-8/3)		F	148	5.5	1,082	40.4	381	14.2	0	0.0	1,610	60.1
			Subtotal	234	8.7	1,660	61.9	787	29.4	0	0.0	2,680	100.0
	8/6-8	199	M	61	3.0	502	24.6	348	17.1	0	0.0	911	44.7
	(8/4-10)		F	154	7.6	676	33.2	297	14.6	0	0.0	1,127	55.3
			Subtotal	215	10.6	1,178	57.8	645	31.7	0	0.0	2,038	100.0
	8/13,15,22,	23	M	0	0.0	332	30.4	237	21.7	0	0.0	570	52.2
	27-28,9/3		F	47	4.3	380	34.8	95	8.7	0	0.0	522	47.8
	(8/11-9/19)		Subtotal	47	4.3	712	65.2	332	30.4	0	0.0	1,092	100.0
	Season	1,201	M	218	0.5	12,986	27.3	14,502	30.5	172	0.4	27,878	58.7
			F	497	1.0	10,021	21.1	9,094	19.2	0	0.0	19,612	41.3
			Total	715	1.5	23,007	48.4	23,596	49.7	172	0.4	47,490	100.0

Appendix C.17. Age and sex of chum salmon at the Kwethluk River weir based on escapement samples collected with a fish trap. [ab] (page 5 of 6)

Year	Sample Dates (Stratum Dates)	Sample Size	Sex	Age Class 0.2 Esc.	0.2 %	0.3 Esc.	0.3 %	0.4 Esc.	0.4 %	0.5 Esc.	0.5 %	Total Esc.	Total %
2007	7/2-7	178	M	0	0.0	989	24.2	1,173	28.7	322	7.9	2,484	60.7
	(6/20-7/7)		F	23	0.6	828	20.2	713	17.4	46	1.1	1,610	39.3
			Subtotal	23	0.6	1,817	44.4	1,886	46.1	368	9.0	4,094	100.0
	7/8	188	M	0	0.0	3,259	33.5	1,397	14.4	310	3.2	4,966	51.1
	(7/8-12)		F	0	0.0	3,053	31.4	1,604	16.5	104	1.1	4,760	48.9
			Subtotal	0	0.0	6,312	64.9	3,001	30.9	414	4.3	9,726	100.0
	7/15-16	196	M	74	0.5	6,148	42.3	2,444	16.8	297	2.1	8,963	61.7
	(7/13-19)		F	222	1.5	4,000	27.6	1,111	7.7	222	1.5	5,555	38.3
			Subtotal	296	2.0	10,148	69.9	3,555	24.5	519	3.6	14,518	100.0
	7/22	186	M	122	1.1	4,893	43.0	1,468	12.9	0	0.0	6,483	57.0
	(7/20-25)		F	245	2.1	3,792	33.3	673	5.9	183	1.6	4,893	43.0
			Subtotal	367	3.2	8,685	76.3	2,141	18.8	183	1.6	11,376	100.0
	7/29	186	M	0	0.0	4,521	44.1	1,379	13.5	166	1.6	6,065	59.1
	(7/26-8/2)		F	165	1.6	3,419	33.3	496	4.8	110	1.1	4,191	40.9
			Subtotal	165	1.6	7,940	77.4	1,875	18.3	276	2.7	10,256	100.0
	8/6-7	188	M	0	0.0	1,463	28.2	249	4.8	0	0.0	1,711	33.0
	(8/3-9)		F	138	2.7	2,759	53.2	524	10.1	55	1.1	3,477	67.0
			Subtotal	138	2.7	4,222	81.4	773	14.9	55	1.1	5,188	100.0
	8/12-14	168	M	0	0.0	446	31.6	68	4.8	0	0.0	513	36.3
	(8/10-16)		F	0	0.0	825	58.3	67	4.7	8	0.6	901	63.7
			Subtotal	0	0.0	1,271	89.9	135	9.5	8	0.6	1,414	100.0
	8/19-20,26,9/2	46	M	0	0.0	114	17.4	57	8.7	14	2.2	186	28.3
	(8/17-9/10)		F	14	2.2	401	60.9	57	8.7	0	0.0	472	71.7
			Subtotal	14	2.2	515	78.3	114	17.4	14	2.2	658	100.0
	Season	1,336	M	196	0.4	21,833	38.2	8,233	14.4	1,108	1.9	31,372	54.8
			F	808	1.4	19,076	33.3	5,246	9.2	729	1.3	25,858	45.2
			Total	1,004	1.8	40,909	71.5	13,479	23.6	1,837	3.2	57,230	100.0
2008	7/6- 9	163	M	0	0.0	275	6.8	1,777	43.6	0	0.0	2,053	50.3
	(6/15- 7/10)		F	0	0.0	451	11.0	1,477	36.2	100	2.5	2,027	49.7
			Subtotal	0	0.0	726	17.8	3,254	79.8	100	2.5	4,080	100.0
	7/13- 14	185	M	0	0.0	310	8.6	1,899	53.0	0	0.0	2,209	61.6
	(7/11-16)		F	19	0.5	136	3.8	1,182	32.9	39	1.1	1,376	38.4
			Subtotal	19	0.5	446	12.4	3,081	85.9	39	1.1	3,585	100.0
	7/20,22-25	193	M	48	1.1	481	10.4	2,090	45.1	144	3.1	2,763	59.6
	(7/17-25)		F	24	0.5	432	9.3	1,370	29.5	48	1.0	1,874	40.4
			Subtotal	72	1.6	913	19.7	3,460	74.6	192	4.1	4,637	100.0
	7/27- 28	198	M	0	0.0	396	12.6	1,631	52.0	16	0.5	2,043	65.2
	(7/26-29)		F	16	0.5	158	5.1	871	27.8	47	1.5	1,093	34.8
			Subtotal	16	0.5	554	17.7	2,502	79.8	63	2.0	3,136	100.0

Appendix C.17. Age and sex of chum salmon at the Kwethluk River weir based on escapement samples collected with a fish trap. [ab] (page 6 of 6)

Year	Sample Dates (Stratum Dates)	Sample Size	Sex	Age Class 0.2 Esc.	0.2 %	0.3 Esc.	0.3 %	0.4 Esc.	0.4 %	0.5 Esc.	0.5 %	Total Esc.	Total %
	8/3	203	M	35	1.0	774	21.7	1,003	28.1	35	1.0	1,848	51.7
	(7/30-8/7)		F	18	0.5	669	18.7	1,039	29.0	0	0.0	1,725	48.3
			Subtotal	53	1.5	1,443	40.4	2,042	57.1	35	1.0	3,573	100.0
	8/10-11,13,15	41	M	25	2.4	126	12.2	253	24.4	0	0.0	405	39.0
	(8/8-9/10)		F	51	4.9	253	24.4	329	31.7	0	0.0	632	61.0
			Subtotal	76	7.3	379	36.6	582	56.1	0	0.0	1,037	100.0
	Season	983	M	109	0.6	2,363	11.8	8,654	43.2	195	1.0	11,321	56.5
			F	127	0.6	2,099	10.5	6,267	31.2	235	1.1	8,727	43.5
			Total	236	1.2	4,462	22.3	14,921	74.4	430	2.1	20,048	100.0
2009	6/21-7/13	326	M	130	1.2	3,927	37.1	941	8.9	97	0.9	5,096	48.2
	(6/21-7/15)		F	97	0.9	4,122	39.0	1,071	10.1	195	1.9	5,485	51.8
			Subtotal	227	2.1	8,049	76.1	2,012	19.0	292	2.8	10,581	100.0
	7/19,26	319	M	215	1.6	6,060	44.2	1,203	8.8	86	0.6	7,564	55.2
	(7/16-28)		F	301	2.2	4,856	35.4	946	6.9	43	0.3	6,145	44.8
			Subtotal	516	3.8	10,916	79.6	2,149	15.7	129	0.9	13,709	100.0
	8/2	158	M	35	0.7	2,640	47.5	352	6.3	35	0.7	3,063	55.1
	(7/29-8/5)		F	35	0.6	2,148	38.6	282	5.1	35	0.6	2,500	44.9
			Subtotal	70	1.3	4,788	86.1	634	11.4	70	1.3	5,563	100.0
	8/8-10,16	201	M	33	1.5	704	32.3	270	12.4	0	0.0	1,006	46.3
	(8/6-9/9)		F	32	1.5	1,006	46.3	130	6.0	0	0.0	1,169	53.7
			Subtotal	65	3.0	1,710	78.6	400	18.4	0	0.0	2,175	100.0
	Season	1,004	M	412	1.3	13,331	41.6	2,767	8.6	218	0.7	16,729	52.2
			F	466	1.4	12,132	37.9	2,428	7.6	273	0.8	15,299	47.8
			Total	878	2.7	25,463	79.5	5,195	16.2	491	1.5	32,028	100.0
	Grand [a]	10,622	M	5,921	1.9	101,042	32.1	59,739	19.0	2,755	0.9	169,454	53.9
	Total [c]		F	7,331	2.3	94,304	30.0	41,487	13.2	1,823	0.6	144,955	46.1
			Total	13,253	4.2	195,347	62.1	101,226	32.2	4,577	1.5	314,409	100.0

[a] The number of fish in each stratum age and sex category are derived from the sample percentages; discrepancies in sums are attributed to rounding errors.

[b] The number of fish in "Season" summaries are the strata sums; "Season" percentages are derived from the sums.

[c] The number of fish in the "Grand total" are the sum of the "Season" totals.

Appendix C.18. Mean length (mm) of chum salmon at the Kwethluk River weir based on escapement samples collected with a fish trap. [a] (page 1 of 15)

Year	Sample Dates (Stratum Dates)	Sex		Age Class 0.2	0.3	0.4	0.5
1992	6/24-25 (6/24-26)	M	Mean Length		585	593	595
			Std. Error		7	3	8
			Range		550-640	515-650	555-630
			Sample Size	0	14	83	10
		F	Mean Length		534	561	557
			Std. Error		6	4	12
			Range		505-550	505-625	535-575
			Sample Size	0	7	36	3
	6/28 (6/28-7/4)	M	Mean Length		570	582	603
			Std. Error		6	4	33
			Range		510-610	520-650	570-635
			Sample Size	0	19	63	2
		F	Mean Length		541	552	540
			Std. Error		8	4	10
			Range		490-575	490-605	530-550
			Sample Size	0	10	49	2
	7/5 (7/5-11)	M	Mean Length		579	582	552
			Std. Error		7	5	11
			Range		500-655	525-650	530-595
			Sample Size	0	25	39	5
		F	Mean Length		518	542	560
			Std. Error		4	4	45
			Range		480-575	485-590	515-605
			Sample Size	0	37	44	2
	7/13 (7/12-18)	M	Mean Length		556	570	579
			Std. Error		6	6	16
			Range		490-630	500-630	530-600
			Sample Size	0	38	21	4
		F	Mean Length	500	517	528	538
			Std. Error	10	3	5	18
			Range	485-520	460-590	490-580	520-555
			Sample Size	3	62	25	2
	7/19 (7/19-25)	M	Mean Length		547	557	
			Std. Error		5	8	
			Range		490-620	500-610	
			Sample Size	0	41	17	0
		F	Mean Length	496	513	513	
			Std. Error	12	4	4	
			Range	465-540	435-570	480-550	
			Sample Size	5	63	25	0

Appendix C.18. Mean length (mm) of chum salmon at the Kwethluk River weir based on escapement samples collected with a fish trap. [a] (page 2 of 15)

Year	Sample Dates (Stratum Dates)	Sex		Age Class 0.2	0.3	0.4	0.5
	7/27 (7/26-8/1)	M	Mean Length		538	544	
			Std. Error		4	9	
			Range		470-590	500-585	
			Sample Size	0	47	12	0
		F	Mean Length	490	513	511	
			Std. Error	15	4	8	
			Range	475-520	380-580	435-555	
			Sample Size	3	74	16	0
	8/3-4 (8/2-8)	M	Mean Length	480	530	546	
			Std. Error	-	5	11	
			Range	480-480	460-600	500-580	
			Sample Size	1	40	7	0
		F	Mean Length	491	498	523	
			Std. Error	4	3	9	
			Range	470-505	460-590	475-560	
			Sample Size	7	86	10	0
	8/10-11,14-15 (8/9-15)	M	Mean Length		514	527	
			Std. Error		8	26	
			Range		475-565	440-580	
			Sample Size	0	16	5	0
		F	Mean Length	498	487	500	560
			Std. Error	18	3	10	-
			Range	480-515	450-540	470-540	560-560
			Sample Size	2	61	6	1
	8/16-17,20 (8/16-20)	M	Mean Length		514	515	
			Std. Error		10	-	
			Range		450-595	515-515	
			Sample Size	0	12	1	0
		F	Mean Length		489	525	
			Std. Error		5	26	
			Range		435-560	475-565	
			Sample Size	0	32	3	0
	Season	M	Mean Length	480	550	575	573
			Range	480- 480	450- 655	440- 650	530- 635
			Sample size	1	252	248	21
		F	Mean Length	495	511	534	548
			Range	465- 540	380- 590	435-625	515- 605
			Sample size	20	432	214	10

Appendix C.18. Mean length (mm) of chum salmon at the Kwethluk River weir based on escapement samples collected with a fish trap. [a] (page 3 of 15)

Year	Sample Dates (Stratum Dates)	Sex		Age Class 0.2	0.3	0.4	0.5
2000	6/26-28 (6/23-30)	M	Mean Length		594	622	630
			Std. Error		7	6	50
			Range		555- 630	555- 680	580- 680
			Sample Size	0	11	29	2
		F	Mean Length		574	592	
			Std. Error		12	7	
			Range		540- 620	525- 635	
			Sample Size	0	6	17	0
	7/3-5 (7/1-7)	M	Mean Length		581	611	610
			Std. Error		5	4	-
			Range		525- 625	545- 670	610- 610
			Sample Size	0	30	53	1
		F	Mean Length		552	569	
			Std. Error		9	4	
			Range		510- 595	510- 610	
			Sample Size	0	10	31	0
	7/10-12 (7/8-15)	M	Mean Length		585	606	625
			Std. Error		3	4	-
			Range		525- 635	555- 640	625- 625
			Sample Size	0	48	32	1
		F	Mean Length		551	556	
			Std. Error		3	4	
			Range		505- 630	505- 615	
			Sample Size	0	58	35	0
	7/17-20 (7/16-22)	M	Mean Length		585	600	
			Std. Error		4	7	
			Range		465- 660	530- 675	
			Sample Size	0	61	30	0
		F	Mean Length	535	544	567	
			Std. Error	-	3	4	
			Range	535- 535	480- 600	515- 595	
			Sample Size	1	57	27	0
	7/24-27 (7/23-29)	M	Mean Length	540	579	593	
			Std. Error	-	3	8	
			Range	540- 540	495- 640	510- 660	
			Sample Size	1	76	21	0
		F	Mean Length		543	566	
			Std. Error		3	7	
			Range		485- 620	510- 595	
			Sample Size	0	84	13	0

Appendix C.18. Mean length (mm) of chum salmon at the Kwethluk River weir based on escapement samples collected with a fish trap. [a] (page 4 of 15)

Year	Sample Dates (Stratum Dates)	Sex		Age Class 0.2	0.3	0.4	0.5
	7/31-8/1 (7/30-8/4)	M	Mean Length	552	579	598	590
			Std. Error	19	4	12	-
			Range	530- 590	500- 645	540- 675	590- 590
			Sample Size	3	55	14	1
		F	Mean Length	536	542	569	555
			Std. Error	11	2	8	-
			Range	520- 570	460- 595	500- 630	555- 555
			Sample Size	4	115	14	1
	8/7-8,20,29 (8/5-9/15)	M	Mean Length		565	610	
			Std. Error		8	10	
			Range		520- 615	585- 625	
			Sample Size	0	15	4	0
		F	Mean Length	512	524	553	
			Std. Error	14	6	12	
			Range	485- 530	465- 595	525- 605	
			Sample Size	3	25	6	0
	Season	M	Mean Length	547	582	606	619
			Range	530- 590	465- 660	510- 680	580- 680
			Sample Size	4	296	183	5
		F	Mean Length	525	545	564	555
			Range	485- 570	460- 630	500- 635	555- 555
			Sample Size	8	355	143	1
2002	7/1-3 (6/28-7/5)	M	Mean Length		601	623	627
			Std. Error		3	4	9
			Range		550- 650	580- 660	610- 640
			Sample Size	0	56	38	3
		F	Mean Length	530	583	585	610
			Std. Error	-	5	8	-
			Range	530- 530	515- 625	520- 660	610- 610
			Sample Size	1	27	20	1
	7/7-8,11 (7/6-13)	M	Mean Length	578	597	617	630
			Std. Error	13	3	6	-
			Range	565- 590	530- 695	560- 690	630- 630
			Sample Size	2	68	28	1
		F	Mean Length	555	572	588	
			Std. Error	-	3	6	
			Range	555- 555	520- 625	550- 655	
			Sample Size	1	71	21	0

Appendix C.18. Mean length (mm) of chum salmon at the Kwethluk River weir based on escapement samples collected with a fish trap. [a] (page 5 of 15)

Year	Sample Dates (Stratum Dates)	Sex		Age Class 0.2	0.3	0.4	0.5
	7/15 (7/14-18)	M	Mean Length	565	598	618	658
			Std. Error	-	3	7	7
			Range	565- 565	555- 665	540- 670	645- 670
			Sample Size	1	57	20	3
		F	Mean Length		569	577	575
			Std. Error		2	5	9
			Range		510- 605	520- 615	560- 590
			Sample Size	0	69	20	3
	7/22 (7/19-25)	M	Mean Length	546	592	595	
			Std. Error	8	3	9	
			Range	525- 570	510- 640	510- 650	
			Sample Size	5	73	20	0
		F	Mean Length	558	566	570	
			Std. Error	12	3	11	
			Range	540- 590	510- 605	530- 615	
			Sample Size	4	71	8	0
	7/29 (7/26-8/1)	M	Mean Length	563	592	594	620
			Std. Error	8	3	9	-
			Range	505- 615	535- 660	540- 690	620- 620
			Sample Size	14	70	20	1
		F	Mean Length	543	554	563	555
			Std. Error	11	3	5	-
			Range	510- 570	490- 615	540- 590	555- 555
			Sample Size	5	60	11	1
	8/5-7 (8/2-13)	M	Mean Length	572	581	592	550
			Std. Error	8	4	20	.
			Range	520- 635	500- 640	500- 655	550- 550
			Sample Size	12	50	9	1
		F	Mean Length	528	540	549	
			Std. Error	5	4	10	
			Range	490- 580	470- 630	480- 625	
			Sample Size	31	59	14	0
	8/19-20 (8/14-9/19)	M	Mean Length	547	571		
			Std. Error	39	19		
			Range	500- 625	530- 610		
			Sample Size	3	4	0	0
		F	Mean Length	495	501		
			Std. Error	-	26		
			Range	495- 495	350- 590		
			Sample Size	1	8	0	0

Appendix C.18. Mean length (mm) of chum salmon at the Kwethluk River weir based on escapement samples collected with a fish trap. [a] (page 6 of 15)

Year	Sample Dates (Stratum Dates)	Sex		Age Class 0.2	0.3	0.4	0.5
	Season	M	Mean Length	561	595	611	635
			Range	500- 635	500- 695	500- 690	550- 670
			Sample Size	37	378	135	9
		F	Mean Length	536	564	578	578
			Range	490- 590	350- 630	480- 660	555- 610
			Sample Size	43	365	94	5
2003	6/22-28 (6/20-29)	M	Mean Length		582	614	608
			Std. Error		3	5	12
			Range		510- 650	545- 665	580- 635
			Sample Size	0	60	40	5
		F	Mean Length		568	583	590
			Std. Error		5	7	15
			Range		495- 620	535- 650	575- 605
			Sample Size	0	37	18	2
	6/30-7/2 (6/30-7/4)	M	Mean Length	580	589	596	580
			Std. Error	-	3	4	-
			Range	580- 580	520- 640	515- 655	580- 580
			Sample Size	1	81	54	1
		F	Mean Length		561	571	545
			Std. Error		3	4	20
			Range		505- 625	550- 590	525- 565
			Sample Size	0	46	12	2
	7/7-8 (7/5-11)	M	Mean Length		579	597	603
			Std. Error		3	4	4
			Range		530- 650	540- 650	595- 610
			Sample Size	0	89	39	3
		F	Mean Length	560	559	565	605
			Std. Error	-	4	4	-
			Range	560- 560	505- 635	535- 595	605- 605
			Sample Size	1	55	19	1
	7/14 (7/12-17)	M	Mean Length	545	575	608	623
			Std. Error	-	2	6	18
			Range	545- 545	525- 670	580- 645	590- 650
			Sample Size	1	111	13	3
		F	Mean Length	513	553	562	605
			Std. Error	13	3	6	-
			Range	500- 525	500- 645	535- 590	605- 605
			Sample Size	2	55	10	1

Appendix C.18. Mean length (mm) of chum salmon at the Kwethluk River weir based on escapement samples collected with a fish trap. [a] (page 7 of 15)

Year	Sample Dates (Stratum Dates)	Sex		Age Class 0.2	0.3	0.4	0.5
	7/21 (7/18-24)	M	Mean Length	550	570	586	
			Std. Error	-	3	7	
			Range	550- 550	505- 635	520- 620	
			Sample Size	1	87	16	0
		F	Mean Length	580	547	559	550
			Std. Error	-	3	9	.
			Range	580- 580	490- 610	525- 590	550- 550
			Sample Size	1	82	6	1
	7/28 (7/25-31)	M	Mean Length	535	564	598	600
			Std. Error	-	4	12	-
			Range	535- 535	495- 645	525- 685	600- 600
			Sample Size	1	78	12	1
		F	Mean Length	529	543	553	
			Std. Error	7	2	12	
			Range	510- 545	505- 610	530- 580	
			Sample Size	4	97	4	0
	8/4 (8/1-7)	M	Mean Length	565	556	583	
			Std. Error	25	3	13	
			Range	540- 590	485- 645	515- 630	
			Sample Size	2	84	8	0
		F	Mean Length	508	536	534	
			Std. Error	2	3	5	
			Range	505- 510	445- 590	520- 550	
			Sample Size	3	92	5	0
	8/11-12 (8/8-9/14)	M	Mean Length	510	552	574	
			Std. Error	3	3	28	
			Range	505- 515	495- 615	480- 645	
			Sample Size	3	79	5	0
		F	Mean Length	494	524	530	
			Std. Error	9	3	11	
			Range	465- 535	470- 605	500- 580	
			Sample Size	7	82	7	0
	Season	M	Mean Length	543	568	595	613
			Range	505- 590	485- 670	480- 685	580- 650
			Sample Size	9	669	187	13
		F	Mean Length	521	544	557	577
			Range	465- 580	445- 645	500- 650	525- 605
			Sample Size	18	546	81	7

Appendix C.18. Mean length (mm) of chum salmon at the Kwethluk River weir based on escapement samples collected with a fish trap. [a] (page 8 of 15)

Year	Sample Dates (Stratum Dates)	Sex		Age Class 0.2	0.3	0.4	0.5
2004	6/28-29 (6/25-7/4)	M	Mean Length	585	569	597	
			Std. Error	-	4	3	
			Range	585- 585	505- 605	515- 670	
			Sample Size	1	30	88	0
		F	Mean Length		562	572	570
			Std. Error		5	3	-
			Range		515- 615	510- 635	570- 570
			Sample Size	0	24	61	1
	7/7-9 (7/5-12)	M	Mean Length	551	569	588	
			Std. Error	5	4	5	
			Range	525- 570	535- 640	510- 645	
			Sample Size	9	43	46	0
		F	Mean Length	528	544	553	
			Std. Error	9	4	4	
			Range	480- 565	480- 590	505- 595	
			Sample Size	8	36	33	0
	7/15 (7/13-18)	M	Mean Length	545	567	588	
			Std. Error	5	4	3	
			Range	505- 585	500- 630	545- 625	
			Sample Size	20	57	41	0
		F	Mean Length	534	550	563	
			Std. Error	4	4	5	
			Range	520- 555	495- 580	520- 610	
			Sample Size	9	31	17	0
	7/20-21 (7/19-24)	M	Mean Length	545	568	582	
			Std. Error	5	4	5	
			Range	495- 580	505- 640	510- 635	
			Sample Size	24	44	34	0
		F	Mean Length	529	544	557	
			Std. Error	3	5	7	
			Range	500- 560	465- 625	520- 610	
			Sample Size	20	39	12	0
	7/26 (7/25-30)	M	Mean Length	544	567	591	
			Std. Error	4	5	8	
			Range	510- 585	495- 635	500- 640	
			Sample Size	30	39	24	0
		F	Mean Length	528	547	561	
			Std. Error	4	5	8	
			Range	485- 565	485- 610	495- 605	
			Sample Size	29	38	16	0

Appendix C.18. Mean length (mm) of chum salmon at the Kwethluk River weir based on escapement samples collected with a fish trap. [a] (page 9 of 15)

Year	Sample Dates (Stratum Dates)	Sex		Age Class 0.2	0.3	0.4	0.5
	8/2-4 (7/31-8/7)	M	Mean Length	539	565	593	
			Std. Error	4	5	7	
			Range	475- 605	505- 660	530- 640	
			Sample Size	42	34	17	0
		F	Mean Length	520	546	537	
			Std. Error	4	6	6	
			Range	475- 565	490- 615	495- 585	
			Sample Size	37	27	18	0
	8/9-10 (8/8-13)	M	Mean Length	541	554	567	
			Std. Error	5	6	12	
			Range	505- 580	500- 595	495- 625	
			Sample Size	19	19	11	0
		F	Mean Length	518	536	544	
			Std. Error	3	4	12	
			Range	475- 570	490- 615	480- 595	
			Sample Size	48	39	10	0
	8/16-18 (8/14-9/10)	M	Mean Length	537	558	547	
			Std. Error	9	13	15	
			Range	495- 585	520- 620	500- 580	
			Sample Size	10	8	5	0
		F	Mean Length	518	526	543	
			Std. Error	4	5	7	
			Range	480- 560	470- 590	525- 560	
			Sample Size	32	25	4	0
	Season	M	Mean Length	544	567	591	
			Range	475- 605	495- 660	495- 670	
			Sample Size	155	274	266	0
		F	Mean Length	525	547	562	570
			Range	475- 570	465- 625	480- 635	570- 570
			Sample Size	183	259	171	1
2005	Season	M	Mean Length				
			Range				
			Sample Size		No Samples Weir Not Installed		
		F	Mean Length				
			Range				
			Sample Size				

Appendix C.18. Mean length (mm) of chum salmon at the Kwethluk River weir based on escapement samples collected with a fish trap. [a] (page 10 of 15)

Year	Sample Dates (Stratum Dates)	Sex		Age Class 0.2	0.3	0.4	0.5
2006	7/5-7 (6/20-7/7)	M	Mean Length		582	597	
			Std. Error		4	4	
			Range		515- 635	510- 675	
			Sample Size	0	43	81	0
		F	Mean Length		556	569	
			Std. Error		5	4	
			Range		495- 595	520- 630	
			Sample Size	0	27	47	0
	7/9-12 (7/8-14)	M	Mean Length		576	585	
			Std. Error		4	5	
			Range		525- 655	455- 680	
			Sample Size	0	50	62	0
		F	Mean Length		554	561	
			Std. Error		4	4	
			Range		515- 620	500- 615	
			Sample Size	0	41	36	0
	7/16 (7/15-20)	M	Mean Length		578	588	623
			Std. Error		4	5	8
			Range		520- 660	525- 655	615- 630
			Sample Size	0	66	49	2
		F	Mean Length	550	557	569	
			Std. Error	10	4	4	
			Range	540- 560	520- 590	520- 620	
			Sample Size	2	31	34	0
	7/23-25 (7/21-27)	M	Mean Length	503	567	585	638
			Std. Error	6	4	5	13
			Range	495- 515	500- 635	530- 655	625- 650
			Sample Size	3	53	42	2
		F	Mean Length	525	541	555	
			Std. Error	-	4	6	
			Range	525- 525	495- 620	500- 620	
			Sample Size	1	59	30	0
	7/30-8/1 (7/28-8/3)	M	Mean Length	526	565	573	
			Std. Error	6	4	6	
			Range	505- 545	500- 635	510- 635	
			Sample Size	7	47	33	0
		F	Mean Length	512	528	529	
			Std. Error	7	3	5	
			Range	490- 565	470- 605	475- 595	
			Sample Size	12	88	31	0

Appendix C.18. Mean length (mm) of chum salmon at the Kwethluk River weir based on escapement samples collected with a fish trap. [a] (page 11 of 15)

Year	Sample Dates (Stratum Dates)	Sex		Age Class 0.2	0.3	0.4	0.5
	8/6-8 (8/4-10)	M	Mean Length	508	566	570	
			Std. Error	10	5	4	
			Range	485- 555	500- 665	520- 610	
			Sample Size	6	49	34	0
		F	Mean Length	518	532	548	
			Std. Error	5	4	4	
			Range	475- 545	460- 605	500- 590	
			Sample Size	15	66	29	0
	8/13,15,22,27-28,9/3 (8/11-9/19)	M	Mean Length		544	553	
			Std. Error		17	15	
			Range		490- 595	515- 595	
			Sample Size	0	7	5	0
		F	Mean Length	495	515	533	
			Std. Error	-	8	3	
			Range	495- 495	475- 555	530- 535	
			Sample Size	1	8	2	0
	Season	M	Mean Length	513	575	589	627
			Range	485- 555	490- 665	455- 680	615- 650
			Sample Size	16	315	306	4
		F	Mean Length	523	547	563	
			Range	475- 565	460- 620	475- 630	
			Sample Size	31	320	209	0
2007	7/2-7 (6/20-7/7)	M	Mean Length		593	613	620
			Std. Error		6	6	10
			Range		530- 725	525- 715	535- 680
			Sample Size	0	43	51	14
		F	Mean Length	540	555	569	595
			Std. Error	-	8	8	25
			Range	540- 540	460- 700	450- 645	570- 620
			Sample Size	1	36	31	2
	7/8 (7/8-12)	M	Mean Length		575	593	598
			Std. Error		4	6	18
			Range		510- 630	520- 670	535- 650
			Sample Size	0	63	27	6
		F	Mean Length		539	567	543
			Std. Error		3	5	13
			Range		485- 600	520- 630	530- 555
			Sample Size	0	59	31	2

Appendix C.18. Mean length (mm) of chum salmon at the Kwethluk River weir based on escapement samples collected with a fish trap. [a] (page 12 of 15)

Year	Sample Dates (Stratum Dates)	Sex		Age Class 0.2	0.3	0.4	0.5
	7/15-16	M	Mean Length	605	571	581	593
	(7/13-19)		Std. Error	-	4	7	13
			Range	605- 605	450- 640	500- 655	560- 620
			Sample Size	1	83	33	4
		F	Mean Length	528	528	540	555
			Std. Error	11	5	10	9
			Range	515- 550	410- 600	470- 605	540- 570
			Sample Size	3	54	15	3
	7/22	M	Mean Length	573	576	584	
	(7/20-25)		Std. Error	23	3	8	
			Range	550- 595	515- 695	500- 660	
			Sample Size	2	80	24	0
		F	Mean Length	533	536	552	573
			Std. Error	11	3	6	19
			Range	500- 550	485- 590	520- 585	535- 595
			Sample Size	4	62	11	3
	7/29	M	Mean Length		559	566	577
	(7/26-8/2)		Std. Error		3	6	3
			Range		495- 660	505- 620	570- 580
			Sample Size	0	82	25	3
		F	Mean Length	538	539	534	533
			Std. Error	18	3	9	8
			Range	505- 565	500- 660	490- 575	525- 540
			Sample Size	3	62	9	2
	8/6-7	M	Mean Length		570	575	
	(8/3-9)		Std. Error		5	8	
			Range		510- 640	535- 615	
			Sample Size	0	53	9	0
		F	Mean Length	514	540	540	563
			Std. Error	8	2	7	13
			Range	495- 535	485- 595	495- 610	550- 575
			Sample Size	5	100	19	2
	8/12-14	M	Mean Length		577	557	
	(8/10-16)		Std. Error		7	11	
			Range		465- 715	500- 600	
			Sample Size	0	53	8	0
		F	Mean Length		532	533	535
			Std. Error		3	8	-
			Range		455- 620	500- 565	535- 535
			Sample Size	0	98	8	1

Appendix C.18. Mean length (mm) of chum salmon at the Kwethluk River weir based on escapement samples collected with a fish trap. [a] (page 13 of 15)

Year	Sample Dates (Stratum Dates)	Sex		Age Class 0.2	0.3	0.4	0.5
	8/19-20,26,9/2 (8/17-9/10)	M	Mean Length		554	623	545
			Std. Error		12	21	-
			Range		485- 600	575- 660	545- 545
			Sample Size	0	8	4	1
		F	Mean Length	505	528	554	
			Std. Error	-	6	9	
			Range	505- 505	485- 595	540- 580	
			Sample Size	1	28	4	0
	Season	M	Mean Length	585	571	585	599
			Range	550- 605	450- 725	500- 715	535- 680
			Sample Size	3	465	181	28
		F	Mean Length	529	536	553	557
			Range	495- 565	410- 700	450- 645	525- 620
			Sample Size	17	499	128	15
2008	7/6- 9 (6/15- 7/10)	M	Mean Length		630	620	
			Std. Error		11	5	
			Range		560- 700	520- 690	
			Sample Size	0	11	71	0
		F	Mean Length		568	577	573
			Std. Error		8	5	19
			Range		520- 630	450- 660	550- 630
			Sample Size	0	18	59	4
	7/13- 14 (7/11-16)	M	Mean Length		598	610	
			Std. Error		7	3	
			Range		535- 632	545- 675	
			Sample Size	0	16	98	0
		F	Mean Length	535	570	573	568
			Std. Error	-	7	3	8
			Range	535- 535	542- 595	524- 625	560- 575
			Sample Size	1	7	61	2
	7/20,22-25 (7/17-25)	M	Mean Length	565	593	602	603
			Std. Error	40	6	3	10
			Range	525- 605	540- 630	530- 665	575- 635
			Sample Size	2	20	87	6
		F	Mean Length	500	564	564	585
			Std. Error	-	10	4	30
			Range	500- 500	455- 635	505- 625	555- 615
			Sample Size	1	18	57	2

Appendix C.18. Mean length (mm) of chum salmon at the Kwethluk River weir based on escapement samples collected with a fish trap. [a] (page 14 of 15)

Year	Sample Dates (Stratum Dates)	Sex		Age Class 0.2	0.3	0.4	0.5
	7/27- 28 (7/26-29)	M	Mean Length		585	599	635
			Std. Error		6	3	-
			Range		535- 645	505- 685	635- 635
			Sample Size	0	25	103	1
		F	Mean Length	555	562	578	538
			Std. Error	-	11	4	22
			Range	555- 555	515- 605	525- 620	495- 565
			Sample Size	1	10	55	3
	8/3 (7/30-8/7)	M	Mean Length	505	561	567	588
			Std. Error	15	5	5	13
			Range	490- 520	495- 635	455- 635	575- 600
			Sample Size	2	44	57	2
		F	Mean Length	490	544	546	
			Std. Error	-	6	4	
			Range	490- 490	480- 615	490- 610	
			Sample Size	1	38	59	0
	8/10-11,13,15 (8/8-9/10)	M	Mean Length	540	567	592	
			Std. Error	-	29	9	
			Range	540- 540	510- 670	535- 650	
			Sample Size	1	5	10	0
		F	Mean Length	535	524	542	
			Std. Error	20	5	5	
			Range	515- 555	500- 550	495- 560	
			Sample Size	2	10	13	0
	Season	M	Mean Length	540	585	603	603
			Range	490- 605	495- 700	455- 690	575- 635
			Sample Size	5	121	426	9
		F	Mean Length	525	554	567	567
			Range	490- 555	455- 635	450- 660	495- 630
			Sample Size	6	101	304	11
2009	6/21-7/13 (6/21-7/15)	M	Mean Length	554	576	582	588
			Std. Error	7	3	6	4
			Range	535- 565	505- 665	525- 675	580- 595
			Sample Size	4	121	29	3
		F	Mean Length	550	546	549	542
			Std. Error	18	2	5	13
			Range	525- 585	485- 605	510- 625	510- 590
			Sample Size	3	127	33	6

Appendix C.18. Mean length (mm) of chum salmon at the Kwethluk River weir based on escapement samples collected with a fish trap. [a] (page 15 of 15)

Year	Sample Dates (Stratum Dates)	Sex		Age Class 0.2	0.3	0.4	0.5
	7/19,26 (7/16-28)	M	Mean Length	537	571	582	588
			Std. Error	14	2	5	23
			Range	500- 570	490- 650	510- 630	565- 610
			Sample Size	5	141	28	2
		F	Mean Length	542	547	545	560
			Std. Error	10	3	6	-
			Range	515- 580	485- 615	485- 600	560- 560
			Sample Size	7	113	22	1
	8/2 (7/29-8/5)	M	Mean Length	505	555	571	600
			Std. Error	.	3	9	-
			Range	505- 505	490- 620	515- 605	600- 600
			Sample Size	1	75	10	1
		F	Mean Length	525	529	546	610
			Std. Error	-	2	7	-
			Range	525- 525	490- 580	515- 585	610- 610
			Sample Size	1	61	8	1
	8/8-10,16 (8/6-9/9)	M	Mean Length	518	554	575	
			Std. Error	12	3	6	
			Range	500- 540	465- 610	520- 650	
			Sample Size	3	65	25	0
		F	Mean Length	535	534	545	
			Std. Error	23	3	7	
			Range	490- 565	460- 600	505- 580	
			Sample Size	3	93	12	0
	Season	M	Mean Length	538	568	580	590
			Range	500- 570	465- 665	510- 675	565- 610
			Sample Size	13	402	92	6
		F	Mean Length	542	542	547	553
			Range	490- 585	460- 615	485- 625	510- 610
			Sample Size	14	394	75	8
	Grand Total [b]	M	Mean Length	539	573	593	607
			Range	495- 585	465- 700	510- 710	575- 640
			Sample Size	243	3,172	2,024	95
		F	Mean Length	525	543	558	563
			Range	490- 585	455- 640	450- 675	495- 645
			Sample size	340	3,271	1,419	58

[a] "Season" mean lengths are weighted by the escapement passage in each stratum.

[b] "Grand Total" mean lengths are simple averages of the "Season" mean lengths.

Appendix C.19. Age and sex of chum salmon at the Kanektok River tower based on escapement samples collected with a beach seine. [ab] (page 1 of 4)

Year	Sample Dates (Stratum Dates)	Sample Size	Sex	Age Class 0.2 Esc.	0.2 %	0.3 Esc.	0.3 %	0.4 Esc.	0.4 %	0.5 Esc.	0.5 %	Total Esc.	Total %
1997	6/19,22	26	M	0	0.0	0	0.0	1,188	73.1	0	0.0	1,188	73.1
	(6/11-22)		F	0	0.0	63	3.8	375	23.1	0	0.0	438	26.9
			Subtotal	0	0.0	63	3.8	1,563	96.2	0	0.0	1,626	100.0
	6/24-26	68	M	0	0.0	106	4.4	1,203	50.0	0	0.0	1,309	54.4
	(6/23-6/26)		F	0	0.0	142	5.9	885	36.8	71	2.9	1,097	45.6
			Subtotal	0	0.0	248	10.3	2,088	86.8	71	2.9	2,406	100.0
	6/28,30	139	M	0	0.0	678	8.6	4,071	51.8	170	2.2	4,920	62.6
	(6/27-7/2)		F	0	0.0	396	5.1	2,545	32.4	0	0.0	2,940	37.4
			Subtotal	0	0.0	1,074	13.7	6,616	84.2	170	2.2	7,860	100.0
	7/5-6	107	M	0	0.0	1,037	12.1	4,226	49.5	319	3.7	5,582	65.4
	(7/3-6)		F	0	0.0	877	10.3	2,073	24.3	0	0.0	2,950	34.6
			Subtotal	0	0.0	1,914	22.4	6,299	73.8	319	3.7	8,532	100.0
	7/8-9	96	M	0	0.0	842	15.6	2,526	46.9	0	0.0	3,368	62.5
	(7/7-11)		F	0	0.0	673	12.5	1,347	25.0	0	0.0	2,020	37.5
			Subtotal	0	0.0	1,515	28.1	3,873	71.9	0	0.0	5,388	100.0
	7/14-15	206	M	36	0.5	1,193	16.0	3,072	41.3	36	0.5	4,337	58.3
	(7/12-17)		F	36	0.5	1,084	14.6	1,952	26.2	36	0.5	3,109	41.7
			Subtotal	72	1.0	2,277	30.6	5,024	67.5	72	1.0	7,446	100.0
	7/21-23	188	M	0	0.0	1,890	24.5	2,054	26.6	82	1.1	4,025	52.1
	(7/18-25)		F	82	1.1	2,300	29.8	1,314	17.0	0	0.0	3,697	47.9
			Subtotal	82	1.1	4,190	54.3	3,368	43.6	82	1.1	7,722	100.0
	7/28-8/1	207	M	68	1.0	2,127	30.4	1,519	21.7	0	0.0	3,714	53.1
	(7/26-8/3)		F	135	1.9	1,925	27.6	1,182	16.9	34	0.5	3,276	46.9
			Subtotal	203	2.9	4,052	58.0	2,701	38.6	34	0.5	6,990	100.0
	8/5-8	27	M	82	3.7	900	40.8	164	7.4	0	0.0	1,145	51.9
	(8/4-9)		F	0	0.0	736	33.3	327	14.8	0	0.0	1,063	48.1
			Subtotal	82	3.7	1,636	74.1	491	22.2	0	0.0	2,208	100.0
	8/11-12,18-19	32	M	31	3.1	251	25.0	156	15.6	0	0.0	438	43.8
	(8/10-21)		F	0	0.0	501	50.0	63	6.3	0	0.0	564	56.2
			Subtotal	31	3.1	752	75.0	219	21.9	0	0.0	1,002	100.0
	Season	1,096	M	217	0.4	9,023	17.6	20,180	39.4	607	1.2	30,027	58.7
			F	253	0.5	8,697	17.0	12,063	23.6	141	0.3	21,153	41.3
			Total	470	0.9	17,720	34.6	32,243	63.0	748	1.5	51,180	100.0
2002	7/3-4	152	M	0	0.0	561	17.8	1,100	34.9	21	0.7	1,681	53.3
	(7/1-5)		F	0	0.0	394	12.5	1,038	32.9	41	1.3	1,474	46.7
			Subtotal	0	0.0	955	30.3	2,138	67.8	62	2.0	3,155	100.0
	7/6-7,9-11	204	M	0	0.0	1,192	12.3	3,768	38.7	239	2.4	5,198	53.4
	(7/6-13)		F	48	0.5	1,336	13.7	3,004	30.9	143	1.5	4,531	46.6
			Subtotal	48	0.5	2,528	26.0	6,772	69.6	382	3.9	9,729	100.0
	7/16-17,19	131	M	0	0.0	2,150	16.8	2,345	18.3	0	0.0	4,496	35.1
	(7/14-20)		F	0	0.0	3,030	23.7	5,180	40.5	98	0.8	8,307	64.9
			Subtotal	0	0.0	5,180	40.5	7,525	58.8	98	0.8	12,803	100.0

Appendix C.19. Age and sex of chum salmon at the Kanektok River tower based on escapement samples collected with a beach seine. [ab] (page 2 of 4)

Year	Sample Dates (Stratum Dates)	Sample Size	Sex	Age Class 0.2 Esc.	0.2 %	0.3 Esc.	0.3 %	0.4 Esc.	0.4 %	0.5 Esc.	0.5 %	Total Esc.	Total %
	7/22,24-27	154	M	128	1.3	1,978	20.1	1,851	18.8	64	0.6	4,021	40.9
	(7/21-28)		F	191	1.9	3,829	39.0	1,787	18.2	0	0.0	5,807	59.1
			Subtotal	319	3.2	5,807	59.1	3,638	37.0	64	0.6	9,828	100.0
	7/30-8/1,3	97	M	201	3.1	1,407	21.7	871	13.4	0	0.0	2,479	38.1
	(7/29-9/20)		F	469	7.2	2,211	34.0	1,340	20.6	0	0.0	4,020	61.9
			Subtotal	670	10.3	3,618	55.7	2,211	34.0	0	0.0	6,499	100.0
	Season [b]	738	M	329	0.8	7,288	17.4	9,935	23.6	323	0.7	17,875	42.5
			F	708	1.7	10,800	25.7	12,349	29.4	282	0.7	24,139	57.5
			Total	1,037	2.5	18,088	43.1	22,284	53.0	605	1.4	42,014	100.0
2003	7/5,8-10,12-13	191	M	0	0.0	2,943	40.8	641	8.9	151	2.1	3,736	51.8
	(6/24-7/13)		F	0	0.0	2,717	37.7	604	8.4	151	2.1	3,471	48.2
			Subtotal	0	0.0	5,660	78.5	1,245	17.3	302	4.2	7,207	100.0
	7/15-20	183	M	57	0.5	4,446	42.6	855	8.2	114	1.1	5,472	52.5
	(7/14-20)		F	114	1.1	4,161	39.9	570	5.5	114	1.1	4,959	47.5
			Subtotal	171	1.6	8,607	82.5	1,425	13.7	228	2.2	10,431	100.0
	7/21-24	180	M	0	0.0	3,098	41.1	335	4.5	84	1.1	3,517	46.7
	(7/21-26)		F	0	0.0	3,684	48.9	335	4.4	0	0.0	4,019	53.3
			Subtotal	0	0.0	6,782	90.0	670	8.9	84	1.1	7,536	100.0
	7/28-30,8/2	179	M	0	0.0	6,988	46.9	333	2.2	166	1.1	7,488	50.3
	(7/27-9/18)		F	166	1.1	6,739	45.3	499	3.4	0	0.0	7,404	49.7
			Subtotal	166	1.1	13,727	92.2	832	5.6	166	1.1	14,892	100.0
	Season [b]	733	M	57	0.1	17,476	43.6	2,164	5.4	515	1.3	20,212	50.4
			F	280	0.7	17,301	43.2	2,008	5.0	265	0.6	19,854	49.6
			Total	337	0.8	34,777	86.8	4,172	10.4	780	1.9	40,066	100.0
2004	7/6-11	126	M	0	0.0	1,967	12.7	6,025	38.9	0	0.0	7,992	51.6
	(6/29-7/13)		F	369	2.4	3,566	23.0	3,443	22.2	123	0.8	7,501	48.4
			Subtotal	369	2.4	5,533	35.7	9,468	61.1	123	0.8	15,493	100.0
	7/14-15,17,19	99	M	347	3.1	3,240	28.3	3,703	32.3	0	0.0	7,290	63.6
	(7/14-20)		F	232	2.0	2,083	18.2	1,851	16.2	0	0.0	4,165	36.4
			Subtotal	579	5.1	5,323	46.5	5,554	48.5	0	0.0	11,455	100.0
	7/22-24	169	M	178	2.4	2,269	30.2	1,112	14.8	0	0.0	3,559	47.3
	(721-26)		F	267	3.5	2,847	37.8	846	11.2	0	0.0	3,960	52.7
			Subtotal	445	5.9	5,116	68.0	1,958	26.0	0	0.0	7,519	100.0
	7/28-31	185	M	280	4.3	1,754	27.0	807	12.4	0	0.0	2,842	43.8
	(7/27-8/2)		F	316	4.9	2,245	34.6	1,087	16.8	0	0.0	3,648	56.2
			Subtotal	596	9.2	3,999	61.6	1,894	29.2	0	0.0	6,490	100.0
	8/4-13	157	M	169	3.2	1,218	22.9	879	16.6	0	0.0	2,266	42.7
	(8/3-9/20)		F	474	8.9	1,894	35.7	677	12.7	0	0.0	3,045	57.3
			Subtotal	643	12.1	3,112	58.6	1,556	29.3	0	0.0	5,311	100.0
	Season	736	M	975	2.1	10,448	22.6	12,526	27.1	0	0.0	23,949	51.8
			F	1,656	3.6	12,636	27.3	7,904	17.1	123	0.3	22,319	48.2
			Total	2,631	5.7	23,084	49.9	20,430	44.2	123	0.3	46,268	100.0

Appendix C.19. Age and sex of chum salmon at the Kanektok River tower based on escapement samples collected with a beach seine. [ab] (page 3 of 4)

Year	Sample Dates (Stratum Dates)	Sample Size	Sex	Age Class 0.2 Esc.	0.2 %	0.3 Esc.	0.3 %	0.4 Esc.	0.4 %	0.5 Esc.	0.5 %	Total Esc.	Total %
2005	6/25-7/8	0	M										
			F										
			Subtotal									3,139	
	7/11-12,14-15	157	M	0	0.0	8,545	52.9	1,750	10.8	0	0.0	10,295	63.7
	(7/9-17)		F	0	0.0	4,735	29.3	1,133	7.0	0	0.0	5,868	36.3
			Subtotal	0	0.0	13,280	82.2	2,883	17.8	0	0.0	16,163	100.0
	7/20	176	M	70	0.6	7,152	58.5	764	6.2	69	0.6	8,055	65.9
	(7/18-23)		F	208	1.7	3,680	30.1	278	2.3	0	0.0	4,166	34.1
			Subtotal	278	2.3	10,832	88.6	1,042	8.5	69	0.6	12,221	100.0
	7/27	176	M	75	0.6	7,443	56.2	451	3.4	75	0.6	8,044	60.8
	(7/24-31)		F	151	1.1	4,812	36.4	150	1.1	75	0.5	5,188	39.2
			Subtotal	226	1.7	12,255	92.6	601	4.5	150	1.1	13,232	100.0
	8/4-5	172	M	29	0.6	2,830	55.8	413	8.1	0	0.0	3,272	64.5
	(8/1-7)		F	118	2.3	1,592	31.4	88	1.8	0	0.0	1,798	35.5
			Subtotal	147	2.9	4,422	87.2	501	9.9	0	0.0	5,070	100.0
	8/10-11	163	M	95	3.1	1,806	58.3	133	4.3	0	0.0	2,034	65.6
	(8/8-14)		F	38	1.2	1,026	33.1	0	0.0	0	0.0	1,064	34.4
			Subtotal	133	4.3	2,832	91.4	133	4.3	0	0.0	3,098	100.0
	8/17,19-21	50	M	13	2.0	315	48.0	26	4.0	0	0.0	355	54.0
	(8/15-9/18)		F	13	2.0	276	42.0	13	2.0	0	0.0	302	46.0
			Subtotal	26	4.0	591	90.0	39	6.0	0	0.0	657	100.0
	Season [d]	894	M										
			F										
			Total									53,580	
2006	Season		M	No Weir									
			F										
			Total										
2007	7/4-6	174	M	0	0.0	2,596	23.0	3,570	31.6	260	2.3	6,425	56.9
	(6/19-7/8)		F	0	0.0	1,817	16.1	3,050	27.0	0	0.0	4,868	43.1
			Subtotal	0	0.0	4,413	39.1	6,620	58.6	260	2.3	11,293	100.0
	7/10-12	182	M	0	0.0	3,579	17.0	4,964	23.6	462	2.2	9,004	42.9
	(7/9-14)		F	0	0.0	7,388	35.2	4,617	22.0	0	0.0	12,006	57.1
			Subtotal	0	0.0	10,967	52.2	9,581	45.6	462	2.2	21,010	100.0
	7/16,18	134	M	0	0.0	8,339	30.6	4,881	17.9	610	2.2	13,830	50.7
	(7/15-20)		F	0	0.0	8,135	29.8	5,288	19.4	0	0.0	13,424	49.3
			Subtotal	0	0.0	16,474	60.4	10,169	37.3	610	2.2	27,254	100.0
	7/23	180	M	0	0.0	11,557	42.8	3,752	13.9	451	1.7	15,760	58.3
	(7/21-26)		F	0	0.0	6,304	23.3	4,503	16.7	450	1.6	11,257	41.7
			Subtotal	0	0.0	17,861	66.1	8,255	30.6	901	3.3	27,017	100.0

Appendix C.19. Age and sex of chum salmon at the Kanektok River tower based on escapement samples collected with a beach seine. [ab] (page 4 of 4)

Year	Sample Dates (Stratum Dates)	Sample Size	Sex	Age Class 0.2 Esc.	0.2 %	0.3 Esc.	0.3 %	0.4 Esc.	0.4 %	0.5 Esc.	0.5 %	Total Esc.	Total %
	7/30-31	177	M	0	0.0	10,918	39.6	2,652	9.6	156	0.6	13,726	49.7
	(7/27-8/3)		F	156	0.6	8,423	30.5	5,147	18.6	156	0.5	13,882	50.3
			Subtotal	156	0.6	19,341	70.1	7,799	28.2	312	1.1	27,608	100.0
	8/6,8	211	M	0	0.0	5,141	37.9	1,864	13.7	0	0.0	7,005	51.7
	(8/4-11)		F	0	0.0	5,206	38.4	1,349	10.0	0	0.0	6,555	48.3
			Subtotal	0	0.0	10,347	76.3	3,213	23.7	0	0.0	13,560	100.0
	8/15,21-22	63	M	0	0.0	2,780	50.8	174	3.2	0	0.0	2,954	54.0
	(8/12-9/11)		F	0	0.0	2,085	38.1	347	6.3	87	1.6	2,519	46.0
			Subtotal	0	0.0	4,865	88.9	521	9.5	87	1.6	5,473	100.0
	Season	1,121	M	0	0.0	44,911	33.7	21,856	16.4	1,938	1.5	68,705	51.6
			F	156	0.1	39,358	29.6	24,303	18.3	693	0.5	64,510	48.4
			Total	156	0.1	84,269	63.3	46,159	34.7	2,631	2.0	133,215	100.0
2008	Season [d]	725	M		0.0		19.5		25.3		1.8		46.6
			F		0.6		26.4		23.2		3.1		53.4
			Total		0.6		45.8		48.6		4.9	53,771	100.0
2009	7/9-12	99	M	0	0.0	6,164	40.4	2,928	19.2	154	1.0	9,245	60.6
	(7/5-12)		F	0	0.0	4,160	27.3	1,387	9.1	462	3.0	6,010	39.4
			Subtotal	0	0.0	10,324	67.7	4,315	28.3	616	4.0	15,255	100.0
	7/13-19	189	M	199	1.1	7,380	39.1	4,189	22.2	100	0.5	11,868	63.0
	(7/13-20)		F	0	0.0	5,086	27.0	1,895	10.1	0	0.0	6,981	37.0
			Subtotal	199	1.1	12,466	66.1	6,084	32.3	100	0.5	18,849	100.0
	7/23-24	133	M	0	0.0	3,518	49.6	1,599	22.5	160	2.3	5,278	74.4
	(7/21-28)		F	0	0.0	1,333	18.8	480	6.8	0	0.0	1,812	25.6
			Subtotal	0	0.0	4,851	68.4	2,079	29.3	160	2.3	7,090	100.0
	7/29-31	210	M	50	0.5	4,681	44.7	1,843	17.6	149	1.4	6,723	64.3
	(7/29-8/11)		F	50	0.5	2,789	26.7	846	8.1	50	0.5	3,735	35.7
			Subtotal	100	1.0	7,470	71.4	2,689	25.7	199	1.9	10,458	100.0
	Season	631	M	249	0.5	21,743	42.1	10,558	20.5	563	1.1	33,114	64.1
			F	50	0.1	13,368	25.9	4,608	8.9	512	1.0	18,538	35.9
			Total	299	0.6	35,111	68.0	15,166	29.4	1,075	2.1	51,652	100.0
	Grand	5,055	M	1,827	0.5	110,889	30.4	77,219	21.2	3,946	1.1	193,882	53.2
	Total [c]		F	3,103	0.9	102,160	28.0	63,235	17.4	2,016	0.6	170,513	46.8
			Total	4,930	1.4	213,049	58.5	140,454	38.5	5,962	1.6	364,395	100.0

[a] The number of fish in each stratum age and sex category are derived from the sample percentages; discrepancies in sums are attributed to rounding errors.

[b] The number of fish in "Season" summaries are the strata sums; "Season" percentages are derived from the sums.

[c] The number of fish in the "Grand total" are the sum of the "Season" totals.

[d] Sampling dates do not meet criteria for estimating escapement percentages for some or all of the strata; "Season" is not included in the "Grand Total".

Appendix C.20. Mean length (mm) of chum salmon at the Kanektok River tower based on escapement samples collected with a beach seine. [a] (page 1 of 11)

Year	Sample Dates (Stratum Dates)	Sex		Age Class 0.2	0.3	0.4	0.5
1997	6/19,22 (6/11-22)	M	Mean Length			631	
			Std. Error			5	
			Range			575- 665	
			Sample Size	0	0	19	0
		F	Mean Length		569	578	
			Std. Error		-	7	
			Range		569- 569	559- 604	
			Sample Size	0	1	6	0
	6/24-26 (6/23-26)	M	Mean Length		580	620	
			Std. Error		5	5	
			Range		570- 585	565- 668	
			Sample Size	0	3	34	0
		F	Mean Length		581	587	597
			Std. Error		15	4	4
			Range		545- 610	543- 628	593- 600
			Sample Size	0	4	25	2
	6/28,30 (6/27-7/2)	M	Mean Length		605	631	626
			Std. Error		9	4	34
			Range		557- 655	520- 700	562- 680
			Sample Size	0	12	72	3
		F	Mean Length		594	599	
			Std. Error		11	5	
			Range		562- 640	540- 677	
			Sample Size	0	7	45	0
	7/5-6 (7/3-6)	M	Mean Length		587	621	626
			Std. Error		7	4	9
			Range		550- 628	552- 690	605- 648
			Sample Size	0	13	53	4
		F	Mean Length		548	580	
			Std. Error		9	4	
			Range		487- 598	528- 624	
			Sample Size	0	11	26	0
	7/8-9 (7/7-11)	M	Mean Length		589	621	
			Std. Error		8	5	
			Range		542- 646	565- 695	
			Sample Size	0	15	45	0
		F	Mean Length		560	594	
			Std. Error		8	4	
			Range		483- 593	558- 635	
			Sample Size	0	12	24	0

Appendix C.20. Mean length (mm) of chum salmon at the Kanektok River tower based on escapement samples collected with a beach seine. [a] (page 2 of 11)

Year	Sample Dates (Stratum Dates)	Sex		Age Class 0.2	0.3	0.4	0.5
	7/14-15 (7/12-17)	M	Mean Length	520	579	601	597
			Std. Error	-	5	3	-
			Range	520- 520	510- 648	515- 680	597- 597
			Sample Size	1	33	85	1
		F	Mean Length	523	549	573	575
			Std. Error	-	4	4	-
			Range	523- 523	500- 590	510- 685	575- 575
			Sample Size	1	30	54	1
	7/21-23 (7/18-25)	M	Mean Length		577	602	595
			Std. Error		4	5	-
			Range		527- 650	515- 680	595- 595
			Sample Size	0	46	50	2
		F	Mean Length	567	554	575	
			Std. Error	57	3	4	
			Range	510- 623	503- 608	525- 615	
			Sample Size	2	56	32	0
	7/28-8/1 (7/26-8/3)	M	Mean Length	505	577	602	
			Std. Error	20	4	5	
			Range	485- 525	505- 670	540- 665	
			Sample Size	2	63	45	0
		F	Mean Length	533	543	558	610
			Std. Error	27	4	4	-
			Range	485- 605	480- 608	490- 615	610- 610
			Sample Size	4	57	35	1
	8/5-8 (8/4-9)	M	Mean Length	580	585	596	
			Std. Error	-	11	28	
			Range	580- 580	527- 638	568- 624	
			Sample Size	1	11	2	0
		F	Mean Length		544	550	
			Std. Error		9	16	
			Range		500- 596	521- 578	
			Sample Size	0	9	4	0
	8/11-12,18-19 (8/10-21)	M	Mean Length	520	582	601	
			Std. Error	-	8	13	
			Range	520- 520	547- 620	560- 635	
			Sample Size	1	8	5	0
		F	Mean Length		520	560	
			Std. Error		6	20	
			Range		475- 580	540- 580	
			Sample Size	0	16	2	0

Appendix C.20. Mean length (mm) of chum salmon at the Kanektok River tower based on escapement samples collected with a beach seine. [a] (page 3 of 11)

Year	Sample Dates (Stratum Dates)	Sex		Age Class 0.2	0.3	0.4	0.5
	Season	M	Mean Length	538	583	617	620
			Range	485- 580	505- 670	515- 700	562- 680
			Sample size	5	204	410	10
		F	Mean Length	542	550	581	594
			Range	485- 623	475- 640	490- 685	575- 610
			Sample size	7	203	253	4
2002	7/3-4 (7/1-5)	M	Mean Length		604	631	632
			Std. Error		5	4	-
			Range		549- 658	519- 698	632- 632
			Sample Size	0	27	53	1
		F	Mean Length		591	593	594
			Std. Error		7	4	10
			Range		520- 658	533- 685	584- 604
			Sample Size	0	19	50	2
	7/6-7,9-11 (7/6-13)	M	Mean Length		595	622	624
			Std. Error		7	3	13
			Range		483- 652	565- 689	590- 670
			Sample Size	0	25	79	5
		F	Mean Length	540	569	583	594
			Std. Error	-	4	3	22
			Range	540- 540	528- 613	518- 626	550- 622
			Sample Size	1	28	63	3
	7/16-17,19 (7/14-20)	M	Mean Length		586	610	
			Std. Error		6	6	
			Range		517- 629	565- 681	
			Sample Size	0	22	24	0
		F	Mean Length		548	573	596
			Std. Error		5	4	-
			Range		498- 592	511- 633	596- 596
			Sample Size	0	31	53	1
	7/22,24-27 (7/21-28)	M	Mean Length	585	592	605	635
			Std. Error	6	6	6	-
			Range	579- 590	518- 665	550- 679	635- 635
			Sample Size	2	31	29	1
		F	Mean Length	556	568	582	
			Std. Error	20	3	5	
			Range	517- 583	504- 614	521- 634	
			Sample Size	3	60	28	0

Appendix C.20. Mean length (mm) of chum salmon at the Kanektok River tower based on escapement samples collected with a beach seine. [a] (page 4 of 11)

Year	Sample Dates (Stratum Dates)	Sex		Age Class 0.2	0.3	0.4	0.5
	7/30-8/1,3 (7/29-9/20)	M	Mean Length	577	583	602	
			Std. Error	21	6	8	
			Range	541- 615	545- 641	553- 638	
			Sample Size	3	21	13	0
		F	Mean Length	540	559	555	
			Std. Error	5	4	4	
			Range	525- 562	510- 603	527- 603	
			Sample Size	7	33	20	0
	Season	M	Mean Length	580	590	615	627
			Range	541- 615	483- 665	519- 698	590- 670
			Sample Size	5	126	198	7
		F	Mean Length	545	562	576	595
			Range	517- 583	498- 658	511- 685	550- 622
			Sample Size	11	171	214	6
2003	7/5,8-10,12-13 (6/24 - 7/13)	M	Mean Length		592	587	620
			Std. Error		3	8	4
			Range		526- 670	524- 638	608- 629
			Sample Size	0	78	17	4
		F	Mean Length		562	569	579
			Std. Error		3	8	11
			Range		510- 611	506- 621	561- 601
			Sample Size	0	72	16	4
	7/15-20 (7/14-20)	M	Mean Length	551	580	593	589
			Std. Error	-	3	8	26
			Range	551- 551	512- 623	520- 625	563- 615
			Sample Size	1	78	15	2
		F	Mean Length	487	552	553	587
			Std. Error	10	3	9	22
			Range	477- 497	496- 623	492- 597	565- 608
			Sample Size	2	73	10	2
	7/21-24 (7/21-26)	M	Mean Length		568	585	613
			Std. Error		3	5	13
			Range		515- 632	567- 606	600- 626
			Sample Size	0	74	8	2
		F	Mean Length		546	555	
			Std. Error		3	10	
			Range		480- 618	521- 599	
			Sample Size	0	88	8	0

Appendix C.20. Mean length (mm) of chum salmon at the Kanektok River tower based on escapement samples collected with a beach seine. [a] (page 5 of 11)

Year	Sample Dates (Stratum Dates)	Sex		Age Class 0.2	0.3	0.4	0.5
	7/28-30,8/2 (7/27-9/18)	M	Mean Length		569	570	603
			Std. Error		3	10	36
			Range		510- 645	546- 595	567- 638
			Sample Size	0	84	4	2
		F	Mean Length	515	550	560	
			Std. Error	4	3	17	
			Range	511- 518	496- 600	510- 617	
			Sample Size	2	81	6	0
	Season	M	Mean Length	551	576	587	606
			Range	551- 551	510- 670	520- 638	563- 638
			Sample Size	1	314	44	10
		F	Mean Length	503	552	560	582
			Range	477- 518	480- 623	492- 621	561- 608
			Sample Size	4	314	40	6
2004	7/6-11 (6/29-7/13)	M	Mean Length		591	610	
			Std. Error		5	4	
			Range		552- 620	559- 673	
			Sample Size	0	16	49	0
		F	Mean Length	508	553	566	545
			Std. Error	9	5	4	-
			Range	492- 521	477- 616	519- 596	545- 545
			Sample Size	3	29	28	1
	7/14-15,17,19 (7/14-20)	M	Mean Length	534	584	597	
			Std. Error	10	5	5	
			Range	515- 551	530- 657	535- 666	
			Sample Size	3	28	32	0
		F	Mean Length	539	552	570	
			Std. Error	7	6	6	
			Range	532- 545	496- 592	530- 615	
			Sample Size	2	18	16	0
	7/22-24 (721-26)	M	Mean Length	552	572	595	
			Std. Error	13	4	5	
			Range	514- 577	483- 648	555- 660	
			Sample Size	4	51	25	0
		F	Mean Length	534	545	560	
			Std. Error	4	3	6	
			Range	519- 545	490- 590	512- 611	
			Sample Size	6	64	19	0

Appendix C.20. Mean length (mm) of chum salmon at the Kanektok River tower based on escapement samples collected with a beach seine. [a] (page 6 of 11)

Year	Sample Dates (Stratum Dates)	Sex		Age Class 0.2	0.3	0.4	0.5
	7/28-31 (7/27-8/2)	M	Mean Length	544	573	588	
			Std. Error	12	4	7	
			Range	505- 599	530- 640	531- 638	
			Sample Size	8	50	23	0
		F	Mean Length	529	546	557	
			Std. Error	7	3	5	
			Range	509- 558	498- 597	496- 634	
			Sample Size	9	64	31	0
	8/4-13 (8/3-9/20)	M	Mean Length	534	566	593	
			Std. Error	14	4	6	
			Range	507- 589	486- 610	512- 646	
			Sample Size	5	36	26	0
		F	Mean Length	526	541	555	
			Std. Error	4	3	6	
			Range	495- 554	502- 601	508- 600	
			Sample Size	14	56	20	0
	Season	M	Mean Length	540	579	602	
			Range	505- 599	483- 657	512- 673	
			Sample Size	20	181	155	0
		F	Mean Length	526	548	564	545
			Range	492- 558	477- 616	496- 634	545- 545
			Sample Size	34	231	114	1
2005	7/11-12,14-15 (7/9-17)	M	Mean Length		584	610	
			Std. Error		4	7	
			Range		513- 694	556- 664	
			Sample Size	0	83	17	0
		F	Mean Length		555	584	
			Std. Error		5	15	
			Range		506- 633	500- 684	
			Sample Size	0	46	11	0
	7/20 (7/18-23)	M	Mean Length	539	582	596	619
			Std. Error	-	3	10	-
			Range	539- 539	521- 644	560- 648	619- 619
			Sample Size	1	103	11	1
		F	Mean Length	531	555	562	
			Std. Error	11	4	17	
			Range	520- 552	489- 600	533- 607	
			Sample Size	3	53	4	0

Appendix C.20. Mean length (mm) of chum salmon at the Kanektok River tower based on escapement samples collected with a beach seine. [a] (page 7 of 11)

Year	Sample Dates (Stratum Dates)	Sex		Age Class 0.2	0.3	0.4	0.5
	7/27 (7/24-31)	M	Mean Length	563	579	600	575
			Std. Error	-	3	13	-
			Range	563- 563	505- 626	561- 653	575- 575
			Sample Size	1	99	6	1
		F	Mean Length	566	553	560	512
			Std. Error	46	3	-	-
			Range	520- 611	493- 602	560- 560	512- 512
			Sample Size	2	64	2	1
	8/4-5 (8/1-7)	M	Mean Length	494	578	592	
			Std. Error	-	3	7	
			Range	494- 494	478- 655	540- 625	
			Sample Size	1	96	14	0
		F	Mean Length	524	560	568	
			Std. Error	15	6	12	
			Range	490- 553	514- 840	547- 587	
			Sample Size	4	54	3	0
	8/10-11 (8/8-14)	M	Mean Length	523	564	604	
			Std. Error	12	3	14	
			Range	500- 569	511- 637	568- 674	
			Sample Size	5	95	7	0
		F	Mean Length	544	553		
			Std. Error	18	3		
			Range	526- 562	505- 605		
			Sample Size	2	54	0	0
	8/17,19-21 (8/15-9/18)	M	Mean Length	518	561	609	
			Std. Error	-	5	7	
			Range	518- 518	523- 595	602- 615	
			Sample Size	1	24	2	0
		F	Mean Length	507	553	532	
			Std. Error	-	5	-	
			Range	507- 507	515- 592	532- 532	
			Sample Size	1	21	1	0
	Season [d]	M	Mean Length	534	580	603	596
			Range	494- 569	478- 694	540- 674	575- 619
			Sample Size	9	500	57	2
		F	Mean Length	540	555	577	512
			Range	490- 611	489- 840	500- 684	512- 512
			Sample Size	12	292	21	1

Appendix C.20. Mean length (mm) of chum salmon at the Kanektok River tower based on escapement samples collected with a beach seine. [a] (page 8 of 11)

Year	Sample Dates (Stratum Dates)	Sex		Age Class 0.2	0.3	0.4	0.5
2006	Season	M	Mean Length				
			Range				
			Sample Size				
					No Weir		
		F	Mean Length				
			Range				
			Sample Size				
2007	7/4-6 (6/19-7/8)	M	Mean Length		598	610	608
			Std. Error		4	5	22
			Range		516- 642	533- 680	548- 642
			Sample Size	0	40	55	4
		F	Mean Length		560	574	
			Std. Error		5	5	
			Range		516- 641	501- 660	
			Sample Size	0	28	47	0
	7/10-12 (7/9-14)	M	Mean Length		576	588	593
			Std. Error		4	6	12
			Range		520- 623	503- 669	566- 615
			Sample Size	0	31	43	4
		F	Mean Length		549	555	
			Std. Error		3	5	
			Range		471- 608	500- 615	
			Sample Size	0	64	40	0
	7/16,18 (7/15-20)	M	Mean Length		573	597	597
			Std. Error		5	7	16
			Range		506- 643	535- 692	567- 622
			Sample Size	0	41	24	3
		F	Mean Length		552	557	
			Std. Error		4	5	
			Range		516- 663	503- 596	
			Sample Size	0	40	26	0
	7/23 (7/21-26)	M	Mean Length		576	569	560
			Std. Error		4	7	27
			Range		506- 645	517- 676	508- 595
			Sample Size	0	77	25	3
		F	Mean Length		541	551	542
			Std. Error		5	5	24
			Range		474- 606	504- 597	494- 572
			Sample Size	0	42	30	3

Appendix C.20. Mean length (mm) of chum salmon at the Kanektok River tower based on escapement samples collected with a beach seine. [a] (page 9 of 11)

Year	Sample Dates (Stratum Dates)	Sex		Age Class 0.2	0.3	0.4	0.5
	7/30-31 (7/27-8/3)	M	Mean Length		582	594	602
			Std. Error		3	7	-
			Range		504- 663	542- 640	602- 602
			Sample Size	0	70	17	1
		F	Mean Length	550	546	558	620
			Std. Error	-	2	4	-
			Range	550- 550	500- 586	495- 597	620- 620
			Sample Size	1	54	33	1
	8/6,8 (8/4-11)	M	Mean Length		562	571	
			Std. Error		3	6	
			Range		481- 620	506- 621	
			Sample Size	0	80	29	0
		F	Mean Length		544	542	
			Std. Error		3	7	
			Range		492- 591	480- 610	
			Sample Size	0	81	21	0
	8/15,21-22 (8/12-9/11)	M	Mean Length		564	521	
			Std. Error		4	20	
			Range		495- 600	501- 541	
			Sample Size	0	32	2	0
		F	Mean Length		542	540	530
			Std. Error		5	9	-
			Range		490- 575	520- 563	530- 530
			Sample Size	0	24	4	1
	Season	M	Mean Length		576	589	589
			Range		481- 663	501- 692	508- 642
			Sample Size	0	371	195	15
		F	Mean Length	550	547	557	558
			Range	550- 550	471- 663	480- 660	494- 620
			Sample Size	1	333	201	5
2008	Season [d]	M	Mean Length		582	601	602
			Range		510-668	506-687	550-631
			Sample Size	0	144	162	10
		F	Mean Length	539	554	568	563
			Range	485-560	459-614	483-625	529-622
			Sample Size	8	225	161	15

Appendix C.20. Mean length (mm) of chum salmon at the Kanektok River tower based on escapement samples collected with a beach seine. [a] (page 10 of 11)

Year	Sample Dates (Stratum Dates)	Sex		Age Class 0.2	0.3	0.4	0.5
2009	7/9-12 (7/5-12)	M	Mean Length		602	601	650
			Std. Error		5	7	-
			Range		543- 666	534- 659	650- 650
			Sample Size	0	40	19	1
		F	Mean Length		568	580	553
			Std. Error		6	9	24
			Range		502- 630	528- 621	517- 598
			Sample Size	0	27	9	3
	7/13-19 (7/13-20)	M	Mean Length	557	592	618	618
			Std. Error	15	3	5	-
			Range	542- 572	510- 687	529- 682	618- 618
			Sample Size	2	74	42	1
		F	Mean Length		562	568	
			Std. Error		4	4	
			Range		491- 629	523- 598	
			Sample Size	0	51	19	0
	7/23-24 (7/21-28)	M	Mean Length		607	627	587
			Std. Error		3	6	12
			Range		540- 650	572- 708	570- 610
			Sample Size	0	66	30	3
		F	Mean Length		575	602	
			Std. Error		5	12	
			Range		527- 624	551- 666	
			Sample Size	0	25	9	0
	7/29-31 (7/29-8/11)	M	Mean Length	554	592	618	598
			Std. Error	-	3	3	22
			Range	554- 554	530- 650	581- 670	558- 635
			Sample Size	1	94	37	3
		F	Mean Length	528	567	575	535
			Std. Error	-	4	7	-
			Range	528- 528	509- 628	542- 657	535- 535
			Sample Size	1	56	17	1
	Season	M	Mean Length	556	597	615	613
			Range	542- 572	510- 687	529- 708	558- 650
			Sample Size	3	274	128	8
		F	Mean Length	528	566	576	551
			Range	528- 528	491- 630	523- 666	517- 598
			Sample Size	1	159	54	4

Appendix C.20. Mean length (mm) of chum salmon at the Kanektok River tower based on escapement samples collected with a beach seine. [a] (page 11 of 11)

Year	Sample Dates (Stratum Dates)	Sex		Age Class 0.2	0.3	0.4	0.5
	Grand Total [c]	M	Mean Length	553	584	604	611
			Range	485- 580	505- 670	515- 700	562- 680
			Sample size	34	1,470	1,130	50
		F	Mean Length	532	554	569	571
			Range	485- 623	475- 640	490- 685	575- 610
			Sample size	58	1,411	876	26

[a] "Season" mean lengths are weighted by the escapement passage in each stratum.

[b] "Season" mean lengths are weighted by the escapement passage in each stratum.

[c] "Grand Total" mean lengths are simple averages of the "Season" mean lengths.

[d] Sampling dates do not meet criteria for estimating escapement percentages for some or all of the strata; "Season" is not included in the "Grand Total"

Appendix C.21. Age and sex of chum salmon at the Middle Fork Goodnews River weir based on escapement samples collected with a fish trap.[ab] (page 1 of 9)

Year	Sample Dates (Stratum Dates)	Sample Size	Sex	Age Class 0.2 Esc.	0.2 %	0.3 Esc.	0.3 %	0.4 Esc.	0.4 %	0.5 Esc.	0.5 %	Total Esc.	Total %
1990	6/28	17	M	0	0.0	88	35.3	103	41.2	0	0.0	190	76.5
	(6/28-7/2)		F	0	0.0	15	5.9	44	17.6	0	0.0	59	23.5
			Subtotal	0	0.0	103	41.2	146	58.8	0	0.0	249	100.0
	7/6,10,12	76	M	0	0.0	900	35.5	835	32.9	67	2.6	1,802	71.1
	(7/3-14)		F	0	0.0	433	17.1	299	11.8	0	0.0	733	28.9
			Subtotal	0	0.0	1,334	52.6	1,134	44.7	67	2.6	2,535	100.0
	7/17,20-21	46	M	0	0.0	1,261	34.8	552	15.2	79	2.2	1,892	52.2
	(7/15-24)		F	0	0.0	1,656	45.6	79	2.2	0	0.0	1,734	47.8
			Subtotal	0	0.0	2,917	80.4	631	17.4	79	2.2	3,626	100.0
	Season	139	M	0	0.0	2,250	35.1	1,489	23.2	146	2.3	3,883	60.6
			F	0	0.0	2,103	32.8	422	6.6	0	0.0	2,527	39.4
			Total	0	0.0	4,353	67.9	1,911	29.8	146	2.3	6,410	100.0
1991	7/7-10,12	123	M	0	0.0	1,952	35.8	1,331	24.4	0	0.0	3,282	60.2
	(6/28-7/13)		F	0	0.0	1,419	26.0	754	13.8	0	0.0	2,174	39.8
			Subtotal	0	0.0	3,371	61.8	2,085	38.2	0	0.0	5,456	100.0
	7/14-18,20-21	102	M	0	0.0	2,171	36.3	1,408	23.5	0	0.0	3,579	59.8
	(7/14-22)		F	0	0.0	1,408	23.5	997	16.7	0	0.0	2,405	40.2
			Subtotal	0	0.0	3,579	59.8	2,405	40.2	0	0.0	5,984	100.0
	7/23-25,28	66	M	0	0.0	7,799	48.5	1,706	10.6	0	0.0	9,505	59.1
	(7/23-8/26)		F	0	0.0	5,361	33.3	1,219	7.6	0	0.0	6,580	40.9
			Subtotal	0	0.0	13,160	81.8	2,925	18.2	0	0.0	16,085	100.0
	Season	291	M	0	0.0	11,921	43.3	4,445	16.1	0	0.0	16,366	59.5
			F	0	0.0	8,189	29.8	2,970	10.8	0	0.0	11,159	40.5
			Total	0	0.0	20,110	73.1	7,415	26.9	0	0.0	27,525	100.0
1992[c]	(6/24-7/19)	0	M										
			F										
			Subtotal									12,633	
	7/22	195	M	0	0.0	416	8.2	1,766	34.9	52	1.0	2,233	44.1
	(7/20-25)		F	0	0.0	649	12.8	2,155	42.5	26	0.5	2,831	55.8
			Subtotal	0	0.0	1,065	21.0	3,921	77.4	78	1.5	5,064	99.9
	7/28-29,31	298	M	0	0.0	392	9.3	1,045	24.2	0	0.0	1,437	33.5
	(7/26-8/15)		F	0	0.0	1,016	23.3	1,858	42.9	15	0.3	2,889	66.6
			Subtotal	0	0.0	1,408	32.6	2,903	67.1	15	0.3	4,326	100.1
	Season	493	M										
			F										
			Total									22,023	
1993[c]	7/13-14	42	M	130	2.4	1,044	19.1	1,826	33.3	652	11.9	3,653	66.8
	(6/22-7/15)		F	0	0.0	522	9.5	1,044	19.1	261	4.8	1,827	33.4
			Subtotal	130	2.4	1,566	28.6	2,870	52.4	913	16.7	5,480	100.2

Appendix C.21. Age and sex of chum salmon at the Middle Fork Goodnews River weir based on escapement samples collected with a fish trap.[ab] (page 2 of 9)

Year	Sample Dates (Stratum Dates)	Sample Size	Sex	Age Class 0.2 Esc.	0.2 %	0.3 Esc.	0.3 %	0.4 Esc.	0.4 %	0.5 Esc.	0.5 %	Total Esc.	Total %
	(7/16-22)	0	M										
			F										
			Subtotal									4,051	
	7/27-29	194	M	76	1.5	1,070	21.7	993	20.1	102	2.1	2,241	45.5
	(7/23-8/10)		F	0	0.0	1,171	23.7	1,452	29.4	76	1.5	2,700	54.6
			Subtotal	76	1.5	2,241	45.4	2,445	49.5	178	3.6	4,941	100.1
	Season	236	M										
			F										
			Total									14,472	
1994 [c]	7/1-3	49	M	0	0.0	422	22.4	806	42.8	115	6.1	1,344	71.4
	(6/22-7/5)		F	0	0.0	269	14.3	269	14.3	0	0.0	537	28.6
			Subtotal	0	0.0	691	36.7	1,075	57.1	115	6.1	1,881	100.0
	7/7-8,10	158	M	0	0.0	3,270	33.5	1,851	19.0	247	2.5	5,368	55.1
	(7/6-13)		F	0	0.0	2,036	20.9	2,154	22.1	185	1.9	4,380	44.9
			Subtotal	0	0.0	5,306	54.4	4,005	41.1	432	4.4	9,748	100.0
	(7/14-8/15)	0	M										
			F										
			Subtotal									23,505	
	Season	207	M										
			F										
			Total									35,134	
1995 [c]	7/1	69	M	0	0.0	328	7.2	2,499	55.1	65	1.4	2,893	63.8
	(6/19-7/3)		F	0	0.0	263	5.8	1,184	26.1	196	4.3	1,642	36.2
			Subtotal	0	0.0	591	13.0	3,683	81.2	260	5.7	4,536	100.0
	7/6	75	M	0	0.0	144	4.0	1,533	42.7	0	0.0	1,676	46.7
	(7/4-8)		F	0	0.0	287	8.0	1,626	45.3	0	0.0	1,913	53.3
			Subtotal	0	0.0	431	12.0	3,158	88.0	0	0.0	3,589	100.0
	7/11-12	85	M	0	0.0	427	5.9	2,989	41.2	0	0.0	3,416	47.1
	(7/9-13)		F	0	0.0	1,109	15.3	2,646	36.5	85	1.2	3,841	52.9
			Subtotal	0	0.0	1,536	21.2	5,636	77.7	85	1.2	7,256	100.0
	7/15-16	51	M	133	2.0	1,200	17.6	3,067	45.1	0	0.0	4,400	64.7
	(7/14-19)		F	133	2.0	800	11.8	1,334	19.6	133	2.0	2,401	35.3
			Subtotal	267	3.9	2,000	29.4	4,401	64.7	133	2.0	6,801	100.0
	(7/20-8/28)	0	M										
			F										
			Subtotal									11,517	
	Season	280	M										
			F										
			Total									33,699	

Appendix C.21. Age and sex of chum salmon at the Middle Fork Goodnews River weir based on escapement samples collected with a fish trap.[ab] (page 3 of 9)

Year	Sample Dates (Stratum Dates)	Sample Size	Sex	Age Class 0.2 Esc.	0.2 %	0.3 Esc.	0.3 %	0.4 Esc.	0.4 %	0.5 Esc.	0.5 %	Total Esc.	Total %
1996[c]	(6/19-7/3)	0	M										0.0
			F										0.0
			Subtotal									3,477	0.0
	7/7,9	155	M	0	0.0	6,573	43.2	1,079	7.1	91	0.6	7,743	50.9
	(7/4-12)		F	0	0.0	5,296	34.8	1,961	12.9	198	1.3	7,455	49.0
			Subtotal	0	0.0	11,868	78.1	3,041	20.0	289	1.9	15,204	100.0
	(7/13-21)	0	M										
			F										
			Subtotal									8,008	
	7/22-23	156	M	0	0.0	5,858	43.6	1,035	7.7	175	1.3	7,067	52.6
	(7/19-8/23)		F	0	0.0	5,509	41.0	605	4.5	255	1.9	6,369	47.4
			Subtotal	0	0.0	11,367	84.6	1,639	12.2	430	3.2	13,436	100.0
	Season	311	M										
			F										
			Total									40,125	
1997	7/7-8	69	M	0	0.0	558	11.6	2,303	47.8	0	0.0	2,861	59.4
	(6/13-7/9)		F	0	0.0	279	5.8	1,675	34.8	0	0.0	1,954	40.6
			Subtotal	0	0.0	837	17.4	3,978	82.6	0	0.0	4,815	100.0
	7/12-15	187	M	18	0.5	333	10.2	1,402	42.8	18	0.5	1,770	54.0
	(7/10-17)		F	0	0.0	421	12.8	1,086	33.1	0	0.0	1,507	46.0
			Subtotal	18	0.5	754	23.0	2,488	75.9	18	0.5	3,277	100.0
	7/21-22	192	M	25	0.5	737	15.6	1,548	32.8	25	0.5	2,335	49.5
	(7/18-24)		F	24	0.5	1,057	22.4	1,303	27.6	0	0.0	2,384	50.5
			Subtotal	49	1.0	1,794	38.0	2,851	60.4	25	0.5	4,719	100.0
	7/28	78	M	0	0.0	1,208	26.9	1,437	32.0	0	0.0	2,645	59.0
	(7/25-9/6)		F	0	0.0	862	19.3	978	21.8	0	0.0	1,840	41.0
			Subtotal	0	0.0	2,070	46.2	2,415	53.8	0	0.0	4,485	100.0
	Season	526	M	42	0.3	2,836	16.4	6,691	38.7	42	0.2	9,611	55.6
			F	25	0.1	2,619	15.1	5,041	29.1	0	0.0	7,685	44.4
			Total	67	0.4	5,455	31.5	11,732	67.8	42	0.2	17,296	100.0
1998	7/9-11	203	M	0	0.0	5,858	48.8	1,417	11.8	0	0.0	7,275	60.6
	(6/15-7/13)		F	0	0.0	3,722	31.0	948	7.9	60	0.5	4,730	39.4
			Subtotal	0	0.0	9,580	79.8	2,365	19.7	60	0.5	12,005	100.0
	7/16-17	194	M	29	0.5	2,751	46.9	334	5.7	0	0.0	3,115	53.1
	(7/14-20)		F	0	0.0	2,299	39.2	452	7.7	0	0.0	2,751	46.9
			Subtotal	29	0.5	5,051	86.1	786	13.4	0	0.0	5,866	100.0
	7/23-25[d]	200	M	24	0.4	2,240	37.6	184	3.1	0	0.0	2,448	41.1
	(7/21-27)		F	35	0.6	3,205	53.9	263	4.4	0	0.0	3,503	58.9
			Subtotal	60	1.0	5,445	91.5	446	7.5	0	0.0	5,951	100.0

Appendix C.21. Age and sex of chum salmon at the Middle Fork Goodnews River weir based on escapement samples collected with a fish trap.[ab] (page 4 of 9)

Year	Sample Dates (Stratum Dates)	Sample Size	Sex	Age Class 0.2 Esc.	0.2 %	0.3 Esc.	0.3 %	0.4 Esc.	0.4 %	0.5 Esc.	0.5 %	Total Esc.	Total %
	7/30	108	M	0	0.0	1,505	29.6	142	2.8	0	0.0	1,647	32.4
	(7/28-9/10)		F	0	0.0	3,294	64.8	142	2.8	0	0.0	3,436	67.6
			Subtotal	0	0.0	4,798	94.4	285	5.6	0	0.0	5,083	100.0
	Season	705	M	54	0.2	12,354	42.7	2,077	7.2	0	0.0	14,485	50.1
			F	35	0.1	12,520	43.3	1,805	6.2	60	0.2	14,420	49.9
			Total	89	0.3	24,874	86.1	3,882	13.4	60	0.2	28,905	100.0
1999[e]	7/8-11,13	275	M	0	0.0	2,318	32.0	1,686	23.3	26	0.4	4,030	55.6
	(6/25-7/15)		F	0	0.0	1,817	25.1	1,396	19.2	0	0.0	3,213	44.4
			Subtotal	0	0.0	4,135	57.1	3,082	42.5	26	0.4	7,243	100.0
	7/18-20	194	M	0	0.0	1,386	24.7	953	17.0	29	0.5	2,368	42.3
	(7/16-23)		F	0	0.0	2,340	41.8	895	16.0	0	0.0	3,235	57.7
			Subtotal	0	0.0	3,726	66.5	1,848	33.0	29	0.5	5,603	100.0
	7/26-27,29	203	M	0	0.0	2,569	38.4	824	12.3	0	0.0	3,393	50.7
	(7/24-9/26)		F	0	0.0	2,339	35.0	955	14.3	0	0.0	3,294	49.3
			Subtotal	0	0.0	4,908	73.4	1,779	26.6	0	0.0	6,687	100.0
	Season	672	M	0	0.0	6,273	32.1	3,462	17.7	55	0.3	9,791	50.1
			F	0	0.0	6,496	33.3	3,247	16.6	0	0.0	9,742	49.9
			Total	0	0.0	12,769	65.4	6,709	34.3	55	0.3	19,533	100.0
2000[c]	(7/6-10)	0	M										
			F										
			Subtotal									4,499	
	7/12-14	122	M	0	0.0	834	22.9	1,162	32.0	0	0.0	1,996	54.9
	(7/11-16)		F	0	0.0	686	18.9	953	26.2	0	0.0	1,639	45.1
			Subtotal	0	0.0	1,520	41.8	2,115	58.2	0	0.0	3,635	100.0
	7/19-20	100	M	23	1.0	459	20.0	803	35.0	0	0.0	1,285	56.0
	(7/17-22)		F	0	0.0	780	34.0	230	10.0	0	0.0	1,010	44.0
			Subtotal	23	1.0	1,239	54.0	1,033	45.0	0	0.0	2,295	100.0
	7/25,27-29	196	M	34	1.0	706	20.9	723	21.4	0	0.0	1,463	43.4
	(7/23-9/22)		F	69	2.1	1,084	32.2	757	22.5	0	0.0	1,911	56.6
			Subtotal	103	3.1	1,790	53.1	1,480	43.9	0	0.0	3,374	100.0
	Season	418	M										
			F										
			Total									13,803	
2001	7/5,7-9	203	M	0	0.0	955	19.7	1,744	36.0	24	0.5	2,723	56.2
	(6/26-7/13)		F	0	0.0	932	19.2	1,194	24.6	0	0.0	2,126	43.8
			Subtotal	0	0.0	1,887	38.9	2,938	60.6	24	0.5	4,849	100.0

Appendix C.21. Age and sex of chum salmon at the Middle Fork Goodnews River weir based on escapement samples collected with a fish trap.[ab] (page 5 of 9)

Year	Sample Dates (Stratum Dates)	Sample Size	Sex	Age Class 0.2 Esc.	0.2 %	0.3 Esc.	0.3 %	0.4 Esc.	0.4 %	0.5 Esc.	0.5 %	Total Esc.	Total %
	7/18-20	192	M	54	0.5	3,296	31.8	1,080	10.4	0	0.0	4,430	42.7
	(7/14-22)		F	0	0.0	3,998	38.5	1,945	18.8	0	0.0	5,943	57.3
			Subtotal	54	0.5	7,294	70.3	3,025	29.2	0	0.0	10,373	100.0
	7/25-27	196	M	32	0.5	2,622	41.3	486	7.7	0	0.0	3,140	49.5
	(7/23-30)		F	65	1.0	2,427	38.3	712	11.2	0	0.0	3,204	50.5
			Subtotal	97	1.5	5,049	79.6	1,198	18.9	0	0.0	6,344	100.0
	8/2-5	177	M	0	0.0	1,427	27.1	208	4.0	0	0.0	1,635	31.1
	(7/31-9/30)		F	30	0.6	3,271	62.2	327	6.2	0	0.0	3,628	68.9
			Subtotal	30	0.6	4,698	89.3	535	10.2	0	0.0	5,263	100.0
	Season	768	M	86	0.3	8,300	31.0	3,518	13.1	24	0.1	11,928	44.5
			F	95	0.4	10,628	39.6	4,178	15.6	0	0.0	14,901	55.5
			Total	181	0.7	18,928	70.6	7,696	28.7	24	0.1	26,829	100.0
2002	6/30-7/1	183	M	0	0.0	876	10.9	3,417	42.6	87	1.1	4,381	54.6
	(6/22-7/6)		F	0	0.0	1,008	12.6	2,585	32.3	44	0.5	3,636	45.4
			Subtotal	0	0.0	1,884	23.5	6,002	74.9	131	1.6	8,017	100.0
	7/11	182	M	47	0.5	989	11.5	2,449	28.6	235	2.7	3,721	43.4
	(7/7-15)		F	0	0.0	1,601	18.7	3,250	37.9	0	0.0	4,851	56.6
			Subtotal	47	0.5	2,590	30.2	5,699	66.5	235	2.7	8,572	100.0
	7/19-21	174	M	158	1.7	1,578	17.3	1,946	21.3	53	0.6	3,735	40.8
	(7/16-24)		F	105	1.2	2,841	31.0	2,473	27.0	0	0.0	5,419	59.2
			Subtotal	263	2.9	4,419	48.3	4,419	48.3	53	0.6	9,154	100.0
	7/27-30	186	M	270	5.9	857	18.8	686	15.0	0	0.0	1,813	39.8
	(7/25-9/18)		F	294	6.5	1,495	32.8	956	21.0	0	0.0	2,744	60.2
			Subtotal	564	12.4	2,352	51.6	1,642	36.0	0	0.0	4,557	100.0
	Season	725	M	475	1.6	4,301	14.2	8,499	28.0	376	1.2	13,650	45.0
			F	399	1.3	6,944	22.9	9,262	30.6	44	0.2	16,650	55.0
			Total	874	2.9	11,245	37.1	17,761	58.6	420	1.4	30,300	100.0
2003	6/27,7/4,7	59	M	0	0.0	653	35.6	218	11.8	93	5.1	963	52.5
	(6/18-7/8)		F	0	0.0	621	33.9	186	10.2	62	3.4	870	47.5
			Subtotal	0	0.0	1,274	69.5	404	22.0	155	8.5	1,833	100.0
	7/9-11	155	M	0	0.0	2,112	43.9	559	11.6	155	3.2	2,826	58.7
	(7/9-15)		F	0	0.0	1,646	34.2	280	5.8	62	1.3	1,988	41.3
			Subtotal	0	0.0	3,758	78.1	839	17.4	217	4.5	4,814	100.0
	7/17-19	184	M	0	0.0	3,182	54.9	252	4.4	63	1.1	3,498	60.3
	(7/16-22)		F	32	0.5	2,017	34.8	252	4.3	0	0.0	2,300	39.7
			Subtotal	32	0.5	5,199	89.7	504	8.7	63	1.1	5,798	100.0

Appendix C.21. Age and sex of chum salmon at the Middle Fork Goodnews River weir based on escapement samples collected with a fish trap.[ab] (page 6 of 9)

Year	Sample Dates (Stratum Dates)	Sample Size	Sex	Age Class 0.2 Esc.	0.2 %	0.3 Esc.	0.3 %	0.4 Esc.	0.4 %	0.5 Esc.	0.5 %	Total Esc.	Total %
	7/24-26	168	M	55	0.6	3,502	38.1	875	9.5	55	0.6	4,487	48.8
	(7/23-9/18)		F	54	0.6	4,541	49.4	110	1.2	0	0.0	4,705	51.2
			Subtotal	109	1.2	8,043	87.5	985	10.7	55	0.6	9,192	100.0
	Season	566	M	55	0.3	9,449	43.7	1,904	8.8	366	1.7	11,774	54.4
			F	86	0.4	8,825	40.8	827	3.8	124	0.6	9,863	45.6
			Total	141	0.7	18,274	84.5	2,731	12.6	490	2.3	21,637	100.0
2004	6/28-7/1	180	M	0	0.0	1,180	27.8	1,251	29.5	0	0.0	2,431	57.2
	(6/21-7/4)		F	0	0.0	1,133	26.6	684	16.1	0	0.0	1,817	42.8
			Subtotal	0	0.0	2,313	54.4	1,935	45.6	0	0.0	4,248	100.0
	7/6-9	211	M	37	0.5	2,520	32.2	1,853	23.7	0	0.0	4,409	56.4
	(7/5-11)		F	74	0.9	1,630	20.9	1,704	21.8	0	0.0	3,409	43.6
			Subtotal	111	1.4	4,150	53.1	3,557	45.5	0	0.0	7,818	100.0
	7/13-15	161	M	28	0.6	1,321	29.2	1,096	24.2	0	0.0	2,445	54.0
	(7/12-17)		F	113	2.5	1,461	32.3	506	11.2	0	0.0	2,080	46.0
			Subtotal	141	3.1	2,782	61.5	1,602	35.4	0	0.0	4,525	100.0
	7/20-22	185	M	199	2.7	1,946	26.5	1,112	15.1	40	0.5	3,297	44.9
	(7/18-25)		F	238	3.2	2,503	34.0	1,311	17.9	0	0.0	4,052	55.1
			Subtotal	437	5.9	4,449	60.5	2,423	33.0	40	0.5	7,349	100.0
	7/28-31	190	M	67	1.6	1,030	24.2	515	12.1	0	0.0	1,612	37.9
	(7/26-8/2)		F	202	4.7	1,723	40.5	716	16.8	0	0.0	2,641	62.1
			Subtotal	269	6.3	2,753	64.7	1,231	28.9	0	0.0	4,253	100.0
	8/3,5-6	193	M	47	2.6	387	21.3	104	5.7	0	0.0	538	29.5
	(8/3-7)		F	113	6.2	840	46.1	330	18.1	0	0.0	1,284	70.5
			Subtotal	160	8.8	1,227	67.4	434	23.8	0	0.0	1,822	100.0
	8/9,11,16,23	100	M	36	3.0	204	17.0	84	7.0	0	0.0	325	27.0
	(8/8-9/20)		F	156	13.0	626	52.0	96	8.0	0	0.0	878	73.0
			Subtotal	192	16.0	830	69.0	180	15.0	0	0.0	1,203	100.0
	Season	1,220	M	414	1.3	8,588	27.5	6,015	19.3	40	0.1	15,057	48.2
			F	896	2.9	9,917	31.8	5,348	17.1	0	0.0	16,161	51.8
			Total	1,310	4.2	18,505	59.3	11,363	36.4	40	0.1	31,218	100.0
2005	7/4-7	169	M	0	0.0	3,179	36.7	1,025	11.9	0	0.0	4,204	48.5
	(6/26-7/9)		F	51	0.6	3,947	45.5	462	5.3	0	0.0	4,460	51.5
			Subtotal	51	0.6	7,126	82.2	1,487	17.2	0	0.0	8,664	100.0
	7/12-13,16	162	M	0	0.0	2,447	29.6	1,172	14.2	0	0.0	3,619	43.8
	(7/10-18)		F	0	0.0	4,128	50.0	510	6.2	0	0.0	4,638	56.2
			Subtotal	0	0.0	6,575	79.6	1,682	20.4	0	0.0	8,257	100.0

Appendix C.21. Age and sex of chum salmon at the Middle Fork Goodnews River weir based on escapement samples collected with a fish trap.[ab] (page 7 of 9)

Year	Sample Dates (Stratum Dates)	Sample Size	Sex	Age Class 0.2 Esc.	0.2 %	0.3 Esc.	0.3 %	0.4 Esc.	0.4 %	0.5 Esc.	0.5 %	Total Esc.	Total %
	7/20-22	180	M	22	0.5	1,759	45.6	279	7.2	21	0.6	2,080	53.9
	(7/19-24)		F	64	1.7	1,565	40.5	150	3.9	0	0.0	1,780	46.1
			Subtotal	86	2.2	3,324	86.1	429	11.1	21	0.6	3,860	100.0
	7/26-29	189	M	16	0.5	1,500	48.7	163	5.3	0	0.0	1,679	54.5
	(7/25-8/1)		F	82	2.7	1,239	40.2	82	2.6	0	0.0	1,402	45.5
			Subtotal	98	3.2	2,739	88.9	245	7.9	0	0.0	3,081	100.0
	8/5-6,8,11	207	M	41	1.5	847	29.9	109	3.9	0	0.0	997	35.3
	(8/2-9/20)		F	123	4.3	1,653	58.5	55	1.9	0	0.0	1,831	64.7
			Subtotal	164	5.8	2,500	88.4	164	5.8	0	0.0	2,828	100.0
	Season	907	M	79	0.3	9,730	36.4	2,749	10.3	21	0.1	12,579	47.1
			F	320	1.2	12,534	47.0	1,257	4.7	0	0.0	14,111	52.9
			Total	399	1.5	22,264	83.4	4,006	15.0	21	0.1	26,690	100.0
2006	7/6-7	186	M	0	0.0	3,546	27.4	2,224	17.2	0	0.0	5,770	44.6
	(6/26-7/10)		F	0	0.0	4,727	36.6	2,364	18.3	70	0.5	7,161	55.4
			Subtotal	0	0.0	8,273	64.0	4,588	35.5	70	0.5	12,931	100.0
	7/13-15	179	M	76	0.6	4,444	33.0	2,787	20.7	0	0.0	7,306	54.2
	(7/11-18)		F	75	0.5	3,239	24.0	2,862	21.2	0	0.0	6,177	45.8
			Subtotal	151	1.1	7,683	57.0	5,649	41.9	0	0.0	13,483	100.0
	7/21-22	174	M	163	1.1	4,649	32.8	1,794	12.7	0	0.0	6,607	46.6
	(7/19-25)		F	82	0.6	6,281	44.2	1,224	8.6	0	0.0	7,586	53.4
			Subtotal	245	1.7	10,930	77.0	3,018	21.3	0	0.0	14,193	100.0
	7/28-29	178	M	0	0.0	2,712	33.7	542	6.7	0	0.0	3,254	40.4
	(7/26-8/3)		F	136	1.7	3,706	46.1	949	11.8	0	0.0	4,791	59.6
			Subtotal	136	1.7	6,418	79.8	1,491	18.5	0	0.0	8,045	100.0
	8/7	59	M	0	0.0	2,050	33.9	205	3.4	0	0.0	2,255	37.3
	(8/4-9/18)		F	205	3.4	2,767	45.8	717	11.9	102	1.7	3,792	62.7
			Subtotal	205	3.4	4,817	79.7	922	15.3	102	1.7	6,047	100.0
	Season	776	M	238	0.4	17,401	31.8	7,554	13.8	0	0.0	25,193	46.1
			F	498	0.9	20,720	37.9	8,116	14.8	172	0.3	29,506	53.9
			Total	736	1.3	38,121	69.7	15,670	28.6	172	0.3	54,699	100.0
2007	7/4,6-8,10	112	M	0	0.0	1,476	25.9	1,679	29.5	0	0.0	3,155	55.4
	(6/25-7/10)		F	0	0.0	1,272	22.3	1,221	21.4	51	0.9	2,544	44.6
			Subtotal	0	0.0	2,748	48.2	2,900	50.9	51	0.9	5,699	100.0
	7/12,15	145	M	0	0.0	1,743	22.0	2,887	36.6	109	1.4	4,739	60.0
	(7/11-17)		F	54	0.7	1,689	21.4	1,417	17.9	0	0.0	3,160	40.0
			Subtotal	54	0.7	3,432	43.4	4,304	54.5	109	1.4	7,899	100.0

Appendix C.21. Age and sex of chum salmon at the Middle Fork Goodnews River weir based on escapement samples collected with a fish trap.[ab] (page 8 of 9)

Year	Sample Dates (Stratum Dates)	Sample Size	Sex	Age Class 0.2 Esc.	0.2 %	0.3 Esc.	0.3 %	0.4 Esc.	0.4 %	0.5 Esc.	0.5 %	Total Esc.	Total %
	7/19-20	176	M	0	0.0	2,353	23.3	2,296	22.7	115	1.1	4,764	47.2
	(7/18-22)		F	0	0.0	2,927	29.0	2,410	23.9	0	0.0	5,337	52.8
			Subtotal	0	0.0	5,280	52.3	4,706	46.6	115	1.1	10,101	100.0
	7/25	192	M	0	0.0	2,849	29.7	1,350	14.1	0	0.0	4,198	43.8
	(7/23-27)		F	100	1.0	3,049	31.8	2,199	22.9	50	0.5	5,398	56.2
			Subtotal	100	1.0	5,898	61.5	3,549	37.0	50	0.5	9,596	100.0
	7/30	180	M	0	0.0	1,882	23.3	1,389	17.2	0	0.0	3,271	40.6
	(7/28-8/4)		F	0	0.0	3,047	37.8	1,748	21.7	0	0.0	4,795	59.4
			Subtotal	0	0.0	4,929	61.1	3,137	38.9	0	0.0	8,066	100.0
	8/9-11	60	M	0	0.0	1,717	21.7	2,113	26.7	0	0.0	3,830	48.3
	(8/5-9/18)		F	264	3.3	2,641	33.3	1,057	13.3	132	1.7	4,094	51.7
			Subtotal	264	3.3	4,358	55.0	3,170	40.0	132	1.7	7,924	100.0
	Season	865	M	0	0.0	12,020	24.4	11,714	23.8	224	0.4	23,957	48.6
			F	419	0.8	14,625	29.7	10,051	20.4	233	0.5	25,328	51.4
			Total	419	0.8	26,645	54.1	21,765	44.2	457	0.9	49,285	100.0
2008	7/6-10	224	M	0	0.0	1,276	12.9	2,904	29.5	616	6.2	4,795	48.7
	(6/26-7/12)		F	44	0.4	1,671	17.0	3,079	31.2	264	2.7	5,059	51.3
			Subtotal	44	0.4	2,947	29.9	5,983	60.7	880	8.9	9,854	100.0
	7/14	178	M	0	0.0	1,135	12.9	2,122	24.2	395	4.5	3,652	41.6
	(7/13-18)		F	0	0.0	2,369	27.0	2,319	26.4	444	5.1	5,132	58.4
			Subtotal	0	0.0	3,504	39.9	4,441	50.6	839	9.6	8,784	100.0
	7/22-25	180	M	0	0.0	1,214	18.3	1,582	23.9	184	2.8	2,979	45.0
	(7/19-25)		F	0	0.0	1,729	26.1	1,802	27.2	110	1.6	3,642	55.0
			Subtotal	0	0.0	2,943	44.4	3,384	51.1	294	4.4	6,621	100.0
	7/27	163	M	0	0.0	1,838	21.5	1,943	22.7	158	1.8	3,938	46.0
	('7/26-31)		F	53	0.6	1,995	23.3	2,573	30.1	0	0.0	4,621	54.0
			Subtotal	53	0.6	3,833	44.8	4,516	52.8	158	1.8	8,559	100.0
	8/4-5	179	M	0	0.0	583	7.3	269	3.4	90	1.1	941	11.7
	('8/1-8)		F	0	0.0	4,392	54.7	2,465	30.7	224	2.8	7,082	88.3
			Subtotal	0	0.0	4,975	62.0	2,734	34.1	314	3.9	8,023	100.0
	8/11-22	317	M	16	0.6	405	16.4	265	10.7	47	1.9	732	29.7
	(8/9-9/15)		F	31	1.3	1,286	52.1	405	16.4	15	0.6	1,738	70.3
			Subtotal	47	1.9	1,691	68.5	670	27.1	62	2.5	2,470	100.0
	Season [g]	1,241	M	15	0.0	6,450	14.6	9,084	20.5	1,489	3.3	17,038	38.5
			F	128	0.3	13,443	30.3	12,644	28.5	1,058	2.4	27,273	61.5
			Total	143	0.3	19,893	44.9	21,728	49.0	2,547	5.7	44,311	100.0
2009	7/10-13,18,26	196	M		0.5		21.4		16.8		2.6		41.3
	(6/28-9/21)		F		2.1		32.2		22.5		2.0		58.7
	Season [c]		Total		2.6		53.6		39.3		4.6	19,715	100.0

Appendix C.21. Age and sex of chum salmon at the Middle Fork Goodnews River weir based on escapement samples collected with a fish trap.[ab] (page 9 of 9)

Year	Sample Dates (Stratum Dates)	Sample Size	Sex	Age Class 0.2 Esc.	0.2 %	0.3 Esc.	0.3 %	0.4 Esc.	0.4 %	0.5 Esc.	0.5 %	Total Esc.	Total %
	Grand Total [f]	9,401	M	1,458	0.4	111,873	29.1	69,202	18.0	2,783	0.7	185,312	48.2
			F	2,901	0.8	129,563	33.7	65,168	16.9	1,691	0.4	199,326	51.8
			Total	4,359	1.1	241,436	62.8	134,369	34.9	4,474	1.2	384,638	100.0

[a] The number of fish in each stratum age and sex category are derived from the sample percentages; discrepancies in sums are attributed to rounding errors.

[b] The number of fish in "Season" summaries are the strata sums; "Season" percentages are derived from the sums.

[c] Sampling dates do not meet criteria for estimating escapement percentages for some or all of the strata; "Season" is not included in the "Grand Total".

[d] Sex composition estimated by interpolating from adjacent strata.

[e] Flooding knocked the weir out from 8/4 to 8/14. No estimates were made for fish passage during the flood.

[f] The number of fish in the "Grand total" are the sum of the "Season" totals; percentages are derived from those sums.

[g] Discrepancies in end of "Season" totals are attributed to rounding errors.

Appendix C.22. Mean length (mm) of chum salmon at the Middle Fork Goodnews River weir based on escapement samples collected with a fish trap. (page 1 of 18)

Year	Sample Dates (Stratum Dates)	Sex		Age Class 0.2	0.3	0.4	0.5
1990	6/28 (6/28-7/2)	M	Mean Length		584	619	
			Std. Error		9	13	
			Range		555- 610	584- 668	
			Sample Size	0	6	7	0
		F	Mean Length		560	571	
			Std. Error		-	23	
			Range		560- 560	534- 613	
			Sample Size	0	1	3	0
	7/6,10,12 (7/3-14)	M	Mean Length		574	606	637
			Std. Error		5	5	12
			Range		510- 632	551- 658	625- 648
			Sample Size	0	27	25	2
		F	Mean Length		553	571	
			Std. Error		7	6	
			Range		510- 598	553- 600	
			Sample Size	0	13	9	0
	7/17,20,21 (7/15-24)	M	Mean Length		587	619	690
			Std. Error		8	12	-
			Range		530- 664	582- 658	690- 690
			Sample Size	0	16	7	1
		F	Mean Length		555	590	
			Std. Error		8	-	
			Range		478- 620	590- 590	
			Sample Size	0	21	1	0
	Season	M	Mean Length		582	612	665
			Range		510- 664	551- 668	625- 690
			Sample Size	0	49	39	3
		F	Mean Length		555	574	
			Range		478- 620	534- 613	
			Sample Size	0	35	13	0
1991	7/7-10,12 (6/28-7/13)	M	Mean Length		586	607	
			Std. Error		4	6	
			Range		537- 658	536- 668	
			Sample Size	0	44	30	0
		F	Mean Length		546	555	
			Std. Error		4	6	
			Range		485- 582	496- 589	
			Sample Size	0	32	17	0

Appendix C.22. Mean length (mm) of chum salmon at the Middle Fork Goodnews River weir based on escapement samples collected with a fish trap. (page 2 of 18)

Year	Sample Dates (Stratum Dates)	Sex		Age Class 0.2	0.3	0.4	0.5
	7/14-18,20-21 (7/14-22)	M	Mean Length		583	601	
			Std. Error		5	8	
			Range		521- 650	548- 678	
			Sample Size	0	37	24	0
		F	Mean Length		548	566	
			Std. Error		6	7	
			Range		485- 648	498- 601	
			Sample Size	0	24	17	0
	7/23-25,28 (7/23-8/26)	M	Mean Length		570	570	
			Std. Error		4	11	
			Range		523- 615	530- 610	
			Sample Size	0	32	7	0
		F	Mean Length		537	546	
			Std. Error		5	13	
			Range		496- 585	515- 588	
			Sample Size	0	22	5	0
	Season	M	Mean Length		575	591	
			Range		521- 658	530- 678	
			Sample Size	0	113	61	0
		F	Mean Length		540	555	
			Range		485- 648	496- 601	
			Sample Size	0	78	39	0
1992 [a]	7/22 (7/20-25)	M	Mean Length		564	580	599
			Std. Error		11	4	27
			Range		487- 682	511- 655	572- 626
			Sample Size	0	16	68	2
		F	Mean Length		522	541	586
			Std. Error		5	3	-
			Range		462- 568	482- 607	586- 586
			Sample Size	0	25	83	1
	7/28-29,31 (7/26-8/15)	M	Mean Length		549	567	
			Std. Error		7	4	
			Range		505- 661	480- 662	
			Sample Size	0	27	72	0
		F	Mean Length		522	534	530
			Std. Error		3	2	-
			Range		465- 591	475- 594	530- 530
			Sample Size	0	70	128	1

Appendix C.22. Mean length (mm) of chum salmon at the Middle Fork Goodnews River weir based on escapement samples collected with a fish trap. (page 3 of 18)

Year	Sample Dates (Stratum Dates)	Sex		Age Class 0.2	0.3	0.4	0.5
	Season [a]	M	Mean Length		557	575	599
			Range		487- 682	480- 662	572- 626
			Sample Size	0	43	140	2
		F	Mean Length		522	538	566
			Range		462- 591	475- 607	530- 586
			Sample Size	0	95	211	2
1993 [a]	7/13-14 (6/22-7/15)	M	Mean Length	560	591	597	614
			Std. Error	-	6	7	20
			Range	560- 560	565- 625	550- 635	565- 680
			Sample Size	1	8	14	5
		F	Mean Length		580	544	583
			Std. Error		13	12	28
			Range		545- 605	480- 570	555- 610
			Sample Size	0	4	8	2
	7/27-29 (7/23-8/10)	M	Mean Length	525	547	571	559
			Std. Error	8	5	5	31
			Range	510- 538	483- 615	484- 653	518- 652
			Sample Size	3	42	39	4
		F	Mean Length		516	529	549
			Std. Error		3	3	14
			Range		465- 560	472- 588	528- 577
			Sample Size	0	46	57	3
	Season [a]	M	Mean Length	547	569	588	607
			Range	510- 560	483- 625	484- 653	518- 680
			Sample Size	4	50	53	9
		F	Mean Length		536	535	575
			Std. Error		4	5	22
			Range		465- 605	472- 588	528- 610
			Sample Size	0	50	65	5
1994 [a]	7/1-3 (6/22-7/5)	M	Mean Length		602	612	620
			Std. Error		11	8	17
			Range		535- 645	570- 680	590- 650
			Sample Size	0	9	17	3
		F	Mean Length		548	564	
			Std. Error		8	17	
			Range		525- 570	520- 600	
			Sample Size	0	7	4	0

Appendix C.22. Mean length (mm) of chum salmon at the Middle Fork Goodnews River weir based on escapement samples collected with a fish trap. (page 4 of 18)

Year	Sample Dates (Stratum Dates)	Sex		Age Class 0.2	0.3	0.4	0.5
	7/7-8,10 (7/6-13)	M	Mean Length		599	605	610
			Std. Error		4	6	9
			Range		535- 670	555- 655	585- 625
			Sample Size	0	52	30	4
		F	Mean Length		555	567	565
			Std. Error		4	5	5
			Range		490- 600	500- 695	555- 570
			Sample Size	0	32	35	3
	Season [a]	M	Mean Length		599	607	613
			Range		535- 670	555- 680	585- 650
			Sample Size	0	61	47	7
		F	Mean Length		554	567	565
			Range		490- 600	500- 695	555- 570
			Sample Size	0	39	39	3
1995 [a]	7/1	M	Mean Length		588	618	670
			Std. Error		9	5	-
			Range		570- 620	560- 690	670- 670
			Sample Size	0	5	38	1
		F	Mean Length		583	582	575
			Std. Error		10	9	8
			Range		560- 600	520- 690	560- 585
			Sample Size	0	4	18	3
	7/6	M	Mean Length		602	619	
			Std. Error		11	5	
			Range		580- 615	560- 665	
			Sample Size	0	3	32	0
		F	Mean Length		574	581	
			Std. Error		15	4	
			Range		530- 630	540- 640	
			Sample Size	0	6	34	0
	7/11-12	M	Mean Length		599	599	
			Std. Error		13	5	
			Range		575- 645	540- 655	
			Sample Size	0	5	35	0
		F	Mean Length		556	570	610
			Std. Error		9	4	-
			Range		485- 610	530- 615	610- 610
			Sample Size	0	13	31	1

Appendix C.22. Mean length (mm) of chum salmon at the Middle Fork Goodnews River weir based on escapement samples collected with a fish trap. (page 5 of 18)

Year	Sample Dates (Stratum Dates)	Sex		Age Class 0.2	0.3	0.4	0.5
	7/15-16	M	Mean Length	500	594	592	
			Std. Error	-	9	10	
			Range	500- 500	550- 620	500- 670	
			Sample Size	1	9	23	0
		F	Mean Length	520	554	557	530
			Std. Error	-	15	12	-
			Range	520- 520	510- 605	510- 625	530- 530
			Sample Size	1	6	10	1
1996 [a]	7/7,9	M	Mean Length		613	616	605
			Std. Error		4	9	-
			Range		525- 705	550- 650	605- 605
			Sample Size	0	67	11	1
		F	Mean Length		566	588	583
			Std. Error		3	4	13
			Range		515- 635	560- 630	570- 595
			Sample Size	0	54	20	2
	7/22-23	M	Mean Length		612	621	605
			Std. Error		4	12	20
			Range		550- 675	520- 672	585- 625
			Sample Size	0	68	12	2
		F	Mean Length		570	571	593
			Std. Error		3	6	6
			Range		520- 648	553- 600	585- 605
			Sample Size	0	64	7	3
1997	7/7-8 (6/13-7/9)	M	Mean Length		589	614	
			Std. Error		14	5	
			Range		515- 630	570- 670	
			Sample Size	0	8	33	0
		F	Mean Length		548	584	
			Std. Error		15	4	
			Range		510- 580	545- 615	
			Sample Size	0	4	24	0
	7/12-15 (7/10-17)	M	Mean Length	495	595	614	640
			Std. Error	-	5	3	-
			Range	495- 495	545- 640	550- 695	640- 640
			Sample Size	1	19	80	1
		F	Mean Length		560	573	
			Std. Error		6	4	
			Range		505- 640	510- 640	
			Sample Size	0	24	62	0

Appendix C.22. Mean length (mm) of chum salmon at the Middle Fork Goodnews River weir based on escapement samples collected with a fish trap. (page 6 of 18)

Year	Sample Dates (Stratum Dates)	Sex		Age Class 0.2	0.3	0.4	0.5
	7/21-22 (7/18-24)	M	Mean Length	535	571	600	620
			Std. Error	-	5	5	-
			Range	535- 535	520- 625	515- 695	620- 620
			Sample Size	1	30	63	1
		F	Mean Length	510	553	567	
			Std. Error	-	4	3	
			Range	510- 510	500- 605	515- 620	
			Sample Size	1	43	53	0
	7/28 (7/25-9/6)	M	Mean Length		598	624	
			Std. Error		6	5	
			Range		550- 650	575- 680	
			Sample Size	0	21	25	0
		F	Mean Length		568	581	
			Std. Error		7	6	
			Range		500- 595	540- 640	
			Sample Size	0	15	17	0
	Season [b]	M	Mean Length	518	589	613	628
			Range	495- 535	515- 650	515- 695	620- 640
			Sample Size	2	78	201	2
		F	Mean Length	510	558	577	
			Range	510- 510	500- 640	510- 640	
			Sample Size	1	86	156	0
1998	7/9-11 (6/15-7/13)	M	Mean Length		593	613	
			Std. Error		2	5	
			Range		525- 650	580- 675	
			Sample Size	0	99	24	0
		F	Mean Length		566	595	640
			Std. Error		3	7	-
			Range		520- 620	550- 650	640- 640
			Sample Size	0	63	16	1
	7/16-17 (7/14-23)	M	Mean Length	575	592	626	
			Std. Error	-	4	10	
			Range	575- 575	480- 685	590- 710	
			Sample Size	1	91	11	0
		F	Mean Length		553	568	
			Std. Error		4	13	
			Range		475- 640	470- 630	
			Sample Size	0	76	15	0

Appendix C.22. Mean length (mm) of chum salmon at the Middle Fork Goodnews River weir based on escapement samples collected with a fish trap. (page 7 of 18)

Year	Sample Dates (Stratum Dates)	Sex		Age Class 0.2	0.3	0.4	0.5
	7/30 (7/24-9/10)	M	Mean Length		585	620	
			Std. Error		5	15	
			Range		540- 635	601- 650	
			Sample Size	0	32	3	0
		F	Mean Length		553	570	
			Std. Error		3	12	
			Range		501-600	550- 590	
			Sample Size	0	70	3	0
	Season [b]	M	Mean Length	575	591	617	
			Range	575- 575	480- 685	580- 710	
			Sample Size	1	222	38	0
		F	Mean Length		557	582	640
			Range		475- 640	470- 650	640- 640
			Sample Size	0	209	34	1
1999 [c]	7/8-11,13 (6/25-7/15)	M	Mean Length		607	632	605
			Std. Error		3	4	-
			Range		500- 675	555- 690	605- 605
			Sample Size	0	88	64	1
		F	Mean Length		576	585	
			Std. Error		2	3	
			Range		535- 615	540- 625	
			Sample Size	0	69	53	0
	7/18-20 (7/16-23)	M	Mean Length		599	606	615
			Std. Error		4	5	-
			Range		550- 635	535- 665	615- 615
			Sample Size	0	48	33	1
		F	Mean Length		566	597	
			Std. Error		2	4	
			Range		510- 615	560- 675	
			Sample Size	0	81	31	0
	7/26-27,29 (7/24-9/26)	M	Mean Length		588	606	
			Std. Error		3	8	
			Range		525- 665	540- 675	
			Sample Size	0	78	25	0
		F	Mean Length		550	558	
			Std. Error		3	4	
			Range		475- 615	510- 600	
			Sample Size	0	71	29	0

Appendix C.22. Mean length (mm) of chum salmon at the Middle Fork Goodnews River weir based on escapement samples collected with a fish trap. (page 8 of 18)

Year	Sample Dates (Stratum Dates)	Sex		Age Class 0.2	0.3	0.4	0.5
	Season	M	Mean Length		597	619	610
			Range		500- 675	535- 690	605- 615
			Sample Size	0	214	122	2
		F	Mean Length		563	581	
			Range		475- 615	510- 675	
			Sample Size	0	221	113	0
2000[a]	7/12-14 (7/11-16)	M	Mean Length		604	624	
			Std. Error		5	5	
			Range		570- 665	560- 700	
			Sample Size	0	28	39	0
		F	Mean Length		575	599	
			Std. Error		3	4	
			Range		545- 605	530- 645	
			Sample Size	0	23	31	0
	7/19-20 (7/17-22)	M	Mean Length	535	600	625	
			Std. Error	-	5	6	
			Range	535- 535	545- 645	570- 705	
			Sample Size	1	20	35	0
		F	Mean Length		575	586	
			Std. Error		4	7	
			Range		535- 620	555- 615	
			Sample Size	0	34	10	0
	7/25,27-29 (7/23-9/22)	M	Mean Length	573	596	619	
			Std. Error	3	4	5	
			Range	570- 575	530- 650	555- 685	
			Sample Size	2	41	42	0
		F	Mean Length	543	565	578	
			Std. Error	3	3	3	
			Range	535- 550	520- 650	525- 625	
			Sample Size	4	63	44	0
2001	7/5,7-9 (6/26-7/13)	M	Mean Length		604	635	645
			Std. Error		5	4	
			Range		530- 650	510- 700	645- 645
			Sample Size	0	40	73	1
		F	Mean Length		579	598	
			Std. Error		4	3	
			Range		515- 625	550- 660	
			Sample Size	0	39	50	0

Appendix C.22. Mean length (mm) of chum salmon at the Middle Fork Goodnews River weir based on escapement samples collected with a fish trap. (page 9 of 18)

Year	Sample Dates (Stratum Dates)	Sex		Age Class 0.2	0.3	0.4	0.5
	7/18-20 (7/14-22)	M	Mean Length	575	597	619	
			Std. Error	-	4	8	
			Range	575- 575	525- 670	550- 700	
			Sample Size	1	61	20	0
		F	Mean Length		569	583	
			Std. Error		3	5	
			Range		505- 630	515- 700	
			Sample Size	0	74	36	0
	7/25-27 (7/23-30)	M	Mean Length	585	594	624	
			Std. Error	-	3	6	
			Range	585- 585	525- 660	585- 680	
			Sample Size	1	81	15	0
		F	Mean Length	553	569	575	
			Std. Error	8	3	6	
			Range	545- 560	520- 615	540- 620	
			Sample Size	2	75	22	0
	8/2-5 (7/31-9/30)	M	Mean Length		585	607	
			Std. Error		4	12	
			Range		535- 650	565- 660	
			Sample Size	0	48	7	0
		F	Mean Length	550	557	563	
			Std. Error	-	2	8	
			Range	550- 550	500- 620	525- 610	
			Sample Size	1	110	11	0
	Season	M	Mean Length	579	595	627	645
			Range	575- 585	525- 670	510- 700	645- 645
			Sample Size	2	230	115	1
		F	Mean Length	552	566	584	
			Range	545- 560	500- 630	515- 700	
			Sample Size	3	298	119	0
2002	6/30-7/1 (6/22-7/6)	M	Mean Length		600	632	650
			Std. Error		4	3	37
			Range		560- 628	546- 700	613- 687
			Sample Size	0	20	78	2
		F	Mean Length		583	598	575
			Std. Error		7	4	-
			Range		535- 670	527- 660	575- 575
			Sample Size	0	23	59	1

Appendix C.22. Mean length (mm) of chum salmon at the Middle Fork Goodnews River weir based on escapement samples collected with a fish trap. (page 10 of 18)

Year	Sample Dates (Stratum Dates)	Sex		Age Class 0.2	0.3	0.4	0.5
	7/11 (7/7-15)	M	Mean Length	575	599	613	642
			Std. Error	-	5	4	22
			Range	575- 575	565- 635	550- 675	570- 705
			Sample Size	1	21	52	5
		F	Mean Length		575	587	
			Std. Error		3	2	
			Range		530- 620	550- 635	
			Sample Size	0	34	69	0
	7/19-21 (7/16-24)	M	Mean Length	592	613	643	713
			Std. Error	21	8	8	-
			Range	555- 627	540- 688	550- 728	713- 713
			Sample Size	3	30	37	1
		F	Mean Length	579	579	602	
			Std. Error	29	4	5	
			Range	550- 607	515- 669	535- 674	
			Sample Size	2	54	47	0
	7/27-30 (7/25-9/18)	M	Mean Length	588	595	614	
			Std. Error	12	6	6	
			Range	555- 688	505- 682	555- 674	
			Sample Size	11	35	28	0
		F	Mean Length	567	567	575	
			Std. Error	7	4	5	
			Range	517- 609	475- 685	500- 640	
			Sample Size	12	61	39	0
	Season	M	Mean Length	588	604	628	654
			Range	555- 688	505- 688	546- 728	570- 713
			Sample Size	15	106	195	8
		F	Mean Length	570	576	593	575
			Range	517- 609	475- 685	500- 674	575- 575
			Sample Size	14	172	214	1
2003	6/27,7/4,7 (6/18-7/8)	M	Mean Length		608	634	633
			Std. Error		5	13	8
			Range		555- 655	600- 690	625- 650
			Sample Size	0	21	7	3
		F	Mean Length		572	608	648
			Std. Error		6	19	48
			Range		520- 645	563- 690	600- 695
			Sample Size	0	20	6	2

Appendix C.22. Mean length (mm) of chum salmon at the Middle Fork Goodnews River weir based on escapement samples collected with a fish trap. (page 11 of 18)

Year	Sample Dates (Stratum Dates)	Sex		Age Class 0.2	0.3	0.4	0.5
	7/9-11 (7/9-15)	M	Mean Length		592	623	619
			Std. Error		4	5	8
			Range		520- 685	575- 675	600- 640
			Sample Size	0	68	18	5
		F	Mean Length		563	574	568
			Std. Error		3	9	8
			Range		515- 610	530- 600	560- 575
			Sample Size	0	53	9	2
	7/17-19 (7/16-22)	M	Mean Length		585	623	610
			Std. Error		3	6	5
			Range		505- 660	605- 655	605- 615
			Sample Size	0	101	8	2
		F	Mean Length	530	555	575	
			Std. Error	-	3	6	
			Range	530- 530	510- 610	550- 600	
			Sample Size	1	64	8	0
	7/24-26 (7/23-9/18)	M	Mean Length	530	570	585	570
			Std. Error	-	3	9	-
			Range	530- 530	500- 640	525- 660	570- 570
			Sample Size	1	64	16	1
		F	Mean Length	500	543	559	
			Std. Error	-	3	29	
			Range	500- 500	500- 620	530- 588	
			Sample Size	1	83	2	0
	Season	M	Mean Length	530	582	607	614
			Range	530- 530	500- 685	525- 690	570- 650
			Sample Size	1	254	49	11
		F	Mean Length	511	551	580	608
			Range	500- 530	500- 645	530- 690	560- 695
			Sample Size	2	220	25	4
2004	6/28-7/1 (6/21-7/4)	M	Mean Length		612	624	
			Std. Error		5	4	
			Range		530- 680	550- 695	
			Sample Size	0	50	53	0
		F	Mean Length		576	589	
			Std. Error		3	4	
			Range		530- 620	535- 635	
			Sample Size	0	48	29	0

Appendix C.22. Mean length (mm) of chum salmon at the Middle Fork Goodnews River weir based on escapement samples collected with a fish trap. (page 12 of 18)

Year	Sample Dates (Stratum Dates)	Sex		Age Class 0.2	0.3	0.4	0.5
	7/6-9 (7/5-11)	M	Mean Length	570	601	612	
			Std. Error	-	4	5	
			Range	570- 570	520- 690	520- 695	
			Sample Size	1	68	50	0
		F	Mean Length	543	560	574	
			Std. Error	3	3	4	
			Range	540- 545	515- 600	515- 640	
			Sample Size	2	44	46	0
	7/13-15 (7/12-17)	M	Mean Length	570	597	618	
			Std. Error	-	4	5	
			Range	570- 570	520- 650	555- 680	
			Sample Size	1	47	39	0
		F	Mean Length	553	566	581	
			Std. Error	17	3	8	
			Range	530- 600	520- 630	540- 690	
			Sample Size	4	52	18	0
	7/20-22 (7/18-25)	M	Mean Length	592	585	608	580
			Std. Error	17	4	8	-
			Range	540- 635	515- 665	490- 680	580- 580
			Sample Size	5	49	28	1
		F	Mean Length	535	560	561	
			Std. Error	7	3	8	
			Range	510- 550	500- 610	340- 610	
			Sample Size	6	63	33	0
	7/28-31 (7/26-8/2)	M	Mean Length	545	597	596	
			Std. Error	15	4	7	
			Range	525- 575	550- 670	545- 675	
			Sample Size	3	46	23	0
		F	Mean Length	537	551	554	
			Std. Error	3	3	6	
			Range	520- 560	485- 610	445- 630	
			Sample Size	9	77	32	0
	8/3,5-6 (8/3-7)	M	Mean Length	538	586	604	
			Std. Error	12	5	7	
			Range	510- 580	510- 660	565- 645	
			Sample Size	5	41	11	0
		F	Mean Length	529	549	553	
			Std. Error	6	3	4	
			Range	500- 565	490- 610	505- 600	
			Sample Size	12	89	35	0

Appendix C.22. Mean length (mm) of chum salmon at the Middle Fork Goodnews River weir based on escapement samples collected with a fish trap. (page 13 of 18)

Year	Sample Dates (Stratum Dates)	Sex		Age Class 0.2	0.3	0.4	0.5
	8/9,11,16,23 (8/8-9/20)	M	Mean Length	532	571	584	
			Std. Error	15	8	10	
			Range	510- 560	500- 630	550- 625	
			Sample Size	3	17	7	0
		F	Mean Length	517	545	544	
			Std. Error	9	4	12	
			Range	470- 580	495- 625	505- 590	
			Sample Size	13	52	8	0
	Season	M	Mean Length	570	596	613	580
			Range	510- 635	500- 690	490- 695	580- 580
			Sample Size	18	318	211	1
		F	Mean Length	534	559	569	
			Range	470- 600	485- 630	340- 690	
			Sample Size	46	425	201	0
2005	7/4-7 (6/26-7/9)	M	Mean Length		595	616	
			Std. Error		4	8	
			Range		510- 670	530- 680	
			Sample Size	0	62	20	0
		F	Mean Length	540	556	569	
			Std. Error	-	3	13	
			Range	540- 540	485- 690	530- 645	
			Sample Size	1	77	9	0
	7/12-13,16 (7/10-18)	M	Mean Length		587	620	
			Std. Error		5	8	
			Range		535- 670	535- 700	
			Sample Size	0	48	23	0
		F	Mean Length		551	584	
			Std. Error		3	9	
			Range		490- 640	550- 630	
			Sample Size	0	81	10	0
	7/20-22 (7/19-24)	M	Mean Length	525	591	606	635
			Std. Error	-	4	11	-
			Range	525- 525	530- 660	540- 650	635- 635
			Sample Size	1	82	13	1
		F	Mean Length	508	551	564	
			Std. Error	9	4	9	
			Range	495- 525	485- 625	535- 595	
			Sample Size	3	73	7	0

Appendix C.22. Mean length (mm) of chum salmon at the Middle Fork Goodnews River weir based on escapement samples collected with a fish trap. (page 14 of 18)

Year	Sample Dates (Stratum Dates)	Sex		Age Class 0.2	0.3	0.4	0.5
	7/26-29 (7/25-8/1)	M	Mean Length	510	592	610	
			Std. Error	-	3	15	
			Range	510- 510	480- 660	515- 680	
			Sample Size	1	92	10	0
		F	Mean Length	544	547	554	
			Std. Error	5	3	14	
			Range	530- 555	480- 625	505- 580	
			Sample Size	5	76	5	0
	8/5-6,8,11 (8/2-9/20)	M	Mean Length	542	567	549	
			Std. Error	30	4	11	
			Range	500- 600	485- 635	490- 580	
			Sample Size	3	62	8	0
		F	Mean Length	514	541	566	
			Std. Error	7	3	10	
			Range	480- 545	425- 620	540- 590	
			Sample Size	9	121	4	0
	Season	M	Mean Length	531	589	614	635
			Range	500- 600	480- 670	490- 700	635- 635
			Sample Size	5	346	74	1
		F	Mean Length	525	551	574	
			Range	480- 555	425- 690	505- 645	
			Sample Size	18	428	35	0
2006	7/6-7 (6/26-7/10)	M	Mean Length		599	603	
			Std. Error		4	4	
			Range		550- 680	545- 665	
			Sample Size	0	51	32	0
		F	Mean Length		550	570	540
			Std. Error		3	5	-
			Range		505- 620	475- 620	540- 540
			Sample Size	0	68	34	1
	7/13-15 (7/11-18)	M	Mean Length	525	586	603	
			Std. Error	-	3	6	
			Range	525- 525	525- 635	525- 685	
			Sample Size	1	59	37	0
		F	Mean Length	535	551	565	
			Std. Error	-	4	5	
			Range	535- 535	510- 610	505- 635	
			Sample Size	1	43	38	0

Appendix C.22. Mean length (mm) of chum salmon at the Middle Fork Goodnews River weir based on escapement samples collected with a fish trap. (page 15 of 18)

Year	Sample Dates (Stratum Dates)	Sex		Age Class 0.2	0.3	0.4	0.5
	7/21-22 (7/19-25)	M	Mean Length	528	587	597	
			Std. Error	13	3	7	
			Range	515- 540	500- 640	535- 640	
			Sample Size	2	57	22	0
		F	Mean Length	570	561	556	
			Std. Error	-	4	8	
			Range	570- 570	440- 630	495- 600	
			Sample Size	1	77	15	0
	7/28-29 (7/26-8/3)	M	Mean Length		598	590	
			Std. Error		5	9	
			Range		525- 670	535- 635	
			Sample Size	0	60	12	0
		F	Mean Length	525	563	561	
			Std. Error	13	3	5	
			Range	505- 550	505- 645	525- 605	
			Sample Size	3	82	21	0
	8/7 (8/4-9/18)	M	Mean Length		575	565	
			Std. Error		7	5	
			Range		530- 645	560- 570	
			Sample Size	0	20	2	0
		F	Mean Length	525	561	559	520
			Std. Error	15	6	11	-
			Range	510- 540	500- 610	505- 600	520- 520
			Sample Size	2	27	7	1
	Season	M	Mean Length	527	589	599	
			Range	515- 540	500- 680	525- 685	
			Sample Size	3	247	105	0
		F	Mean Length	534	557	564	528
			Range	505- 570	440- 645	475- 635	520- 540
			Sample Size	7	297	115	2
2007	7/4,6-8,10 (6/25-7/10)	M	Mean Length		585	607	
			Std. Error		5	6	
			Range		515- 635	540- 675	
			Sample Size	0	29	33	0
		F	Mean Length		572	554	600
			Std. Error		3	6	-
			Range		545- 605	460- 600	600- 600
			Sample Size	0	25	24	1

Appendix C.22. Mean length (mm) of chum salmon at the Middle Fork Goodnews River weir based on escapement samples collected with a fish trap. (page 16 of 18)

Year	Sample Dates (Stratum Dates)	Sex		Age Class 0.2	0.3	0.4	0.5
	7/12,15 (7/11-17)	M	Mean Length		577	596	595
			Std. Error		6	4	33
			Range		516- 639	530- 651	562- 628
			Sample Size	0	32	53	2
		F	Mean Length	558	564	554	
			Std. Error	-	6	5	
			Range	558- 558	443- 612	503- 595	
			Sample Size	1	31	26	0
	7/19-20 (7/18-22)	M	Mean Length		592	608	595
			Std. Error		6	5	13
			Range		502- 665	554- 683	582- 607
			Sample Size	0	40	40	2
		F	Mean Length		558	568	
			Std. Error		4	5	
			Range		482- 610	497- 640	
			Sample Size	0	51	42	0
	7/25 (7/23-27)	M	Mean Length		561	580	
			Std. Error		4	6	
			Range		499- 631	518- 645	
			Sample Size	0	57	27	0
		F	Mean Length	552	539	549	518
			Std. Error	1	3	4	-
			Range	550- 553	489- 579	488- 613	518- 518
			Sample Size	2	61	44	1
	7/30 (7/28-8/4)	M	Mean Length		578	590	
			Std. Error		4	5	
			Range		515- 633	516- 652	
			Sample Size	0	42	31	0
		F	Mean Length		551	559	
			Std. Error		3	4	
			Range		511- 627	488- 607	
			Sample Size	0	68	39	0
	8/9-11 (8/5-9/18)	M	Mean Length		585	584	
			Std. Error		10	10	
			Range		515- 640	505- 655	
			Sample Size	0	13	16	0
		F	Mean Length	525	553	540	545
			Std. Error	10	5	10	-
			Range	515- 535	505- 600	500- 595	545- 545
			Sample Size	2	20	8	1

Appendix C.22. Mean length (mm) of chum salmon at the Middle Fork Goodnews River weir based on escapement samples collected with a fish trap. (page 17 of 18)

Year	Sample Dates (Stratum Dates)	Sex		Age Class 0.2	0.3	0.4	0.5
	Season	M	Mean Length		578	595	595
			Range		499- 665	505- 683	562- 628
			Sample Size	0	213	200	4
		F	Mean Length	536	554	556	551
			Range	515- 558	443- 627	460- 640	518- 600
			Sample Size	5	256	183	3
2008	7/6-10 (6/26-7/12)	M	Mean Length		596	609	636
			Std. Error		4	4	7
			Range		550- 645	540- 696	599- 692
			Sample Size	0	29	66	14
		F	Mean Length	513	559	574	583
			Std. Error	-	5	3	9
			Range	513- 513	439- 610	490- 615	549- 607
			Sample Size	1	38	70	6
	7/14 (7/13-18)	M	Mean Length		598	612	601
			Std. Error		5	5	8
			Range		552- 642	537- 692	559- 634
			Sample Size	0	23	43	8
		F	Mean Length		559	575	584
			Std. Error		3	4	6
			Range		517- 610	515- 634	540- 599
			Sample Size	0	48	47	9
	7/22-25 (7/19-25)	M	Mean Length		593	611	604
			Std. Error		5	6	13
			Range		532- 654	503- 691	569- 637
			Sample Size	0	33	43	5
		F	Mean Length		559	573	554
			Std. Error		3	4	27
			Range		518- 600	519- 633	500- 581
			Sample Size	0	47	49	3
	7/27 (7/26-31)	M	Mean Length		599	608	586
			Std. Error		4	5	23
			Range		553- 643	526- 652	554- 631
			Sample Size	0	35	37	3
		F	Mean Length	507	571	582	
			Std. Error	-	4	4	
			Range	507- 507	492- 626	537- 641	
			Sample Size	1	38	49	0

Appendix C.22. Mean length (mm) of chum salmon at the Middle Fork Goodnews River weir based on escapement samples collected with a fish trap. (page 18 of 18)

Year	Sample Dates (Stratum Dates)	Sex		Age Class 0.2	0.3	0.4	0.5
	8/4-5 (8/1-8)	M	Mean Length		558	581	572
			Std. Error		11	8	34
			Range		510- 650	553- 600	538- 605
			Sample Size	0	13	6	2
		F	Mean Length		554	556	567
			Std. Error		2	3	8
			Range		501- 612	503- 613	537- 584
			Sample Size	0	98	55	5
	8/11-22 (8/9-9/15)	M	Mean Length	582	577	575	578
			Std. Error	10	4	5	12
			Range	572- 592	498- 634	529- 643	522- 606
			Sample Size	2	52	34	6
		F	Mean Length	508	541	543	531
			Std. Error	9	2	4	4
			Range	485- 524	465- 627	469- 603	527- 534
			Sample Size	4	165	52	2
	Season	M	Mean Length	582	592	608	612
			Range	572- 592	498- 654	503- 696	522- 692
			Sample Size	2	185	229	38
		F	Mean Length	509	558	571	577
			Range	485- 524	439- 627	469- 641	500- 607
			Sample Size	6	434	322	25
2009	7/10-13,18,26 (6/28-9/21)	M	Mean Length	550	585	607	632
			Range	550- 550	510- 648	513- 677	596- 690
			Sample Size	1	42	33	5
	Season [a]	F	Mean Length	546	568	572	566
			Range	500- 573	510- 635	478- 625	542- 590
			Sample Size	4	63	44	4
	Grand Total [d]	M	Mean Length	556	589	611	624
			Range	495- 592	480- 685	503- 710	522- 692
			Sample size	47	2,575	1,639	71
		F	Mean Length	531	557	574	580
			Range	485- 560	475- 640	469- 675	500- 645
			Sample size	102	3,159	1,569	36

[a] Sampling dates do not meet criteria for estimating escapement percentages for some or all of the strata.

[b] "Season" mean lengths are weighted by the escapement passage in each stratum.

[c] Flooding knocked the weir out from 8/4 to 8/14. No estimates were made for fish passage during the flood.

[d] "Grand Total" mean lengths are simple averages of the "Season" mean lengths.

APPENDIX D: HISTORICAL AGE, SEX, AND LENGTH OF CHUM SALMON SAMPLED FROM KUSKOKWIM AREA COMMERCIAL, TEST, AND SUBSISTENCE FISHERIES.

Appendix D.1. Age and sex of chum salmon from the District 1 commercial fishery. [ab] (page 1 of 18)

Year	Sample Dates	Sample Size	Sex	Age Class 0.2 Catch	0.2 %	0.3 Catch	0.3 %	0.4 Catch	0.4 %	0.5 Catch	0.5 %	Total Catch	Total %
1972	6/20,23,27	26	M	0	0.0	173	11.5	1,269	84.6	0	0.0	1,442	96.2
	(6/15-16,19-20,		F	0	0.0	0	0.0	58	3.9	0	0.0	58	3.8
	22-23,26-27)		Subtotal	0	0.0	173	11.5	1,327	88.5	0	0.0	1,500	100.0
	6/30	100	M	0	0.0	1,480	15.0	3,057	31.0	0	0.0	4,537	46.0
	(6/29-30)		F	197	2.0	1,282	13.0	3,847	39.0	0	0.0	5,326	54.0
			Subtotal	197	2.0	2,762	28.0	6,904	70.0	0	0.0	9,863	100.0
	7/4	102	M	187	1.0	2,619	13.7	4,303	22.5	0	0.0	7,110	37.3
	(7/3-4)		F	0	0.0	5,239	27.5	6,736	35.3	0	0.0	11,974	62.7
			Subtotal	187	1.0	7,858	41.2	11,039	57.8	0	0.0	19,084	100.0
	7/7	110	M	0	0.0	4,148	20.9	5,952	30.0	0	0.0	10,100	50.9
	(7/6-7)		F	361	1.8	3,427	17.3	5,951	30.0	0	0.0	9,739	49.1
			Subtotal	361	1.8	7,575	38.2	11,903	60.0	0	0.0	19,839	100.0
	7/11	135	M	560	3.7	2,241	14.8	3,922	25.9	0	0.0	6,724	44.4
	(7/10-11,13)		F	336	2.2	4,258	28.2	3,810	25.2	0	0.0	8,404	55.6
			Subtotal	896	5.9	6,499	43.0	7,732	51.1	0	0.0	15,128	100.0
	7/14,8/9-10	69	M	190	2.9	1,234	18.8	1,139	17.4	0	0.0	2,562	39.1
	(7/14,8/3-4,7-11,		F	379	5.8	2,277	34.8	1,328	20.3	0	0.0	3,985	60.9
	14-18,21-22)		Subtotal	569	8.7	3,511	53.6	2,467	37.7	0	0.0	6,547	100.0
	Season	542	M	937	1.3	11,895	16.5	19,642	27.3	0	0.0	32,474	45.1
			F	1,274	1.8	16,483	22.9	21,730	30.2	0	0.0	39,487	54.9
			Total	2,211	3.1	28,378	39.4	41,372	57.5	0	0.0	71,961	100.0
1973	6/26	106	M	0	0.0	6,092	28.3	2,843	13.2	406	1.9	9,342	43.4
	(6/6-8,11,12,14,		F	0	0.0	6,905	32.1	5,077	23.6	203	0.9	12,185	56.6
	15,18,19,25,26)		Subtotal	0	0.0	12,997	60.4	7,920	36.8	609	2.8	21,527	100.0
	6/29	107	M	0	0.0	18,618	39.2	12,412	26.1	1,330	2.8	32,359	68.2
	(6/28-29)		F	0	0.0	9,752	20.6	4,876	10.3	443	0.9	15,072	31.8
			Subtotal	0	0.0	28,370	59.8	17,288	36.4	1,773	3.7	47,431	100.0
	7/3	98	M	0	0.0	7,010	32.6	3,943	18.4	219	1.0	11,172	52.0
	(7/2-3)		F	0	0.0	6,134	28.6	3,943	18.3	219	1.0	10,296	48.0
			Subtotal	0	0.0	13,144	61.2	7,886	36.7	438	2.0	21,468	100.0
	7/6	110	M	283	0.9	6,776	21.8	4,235	13.6	283	0.9	11,575	37.3
	(7/5-6)		F	282	0.9	13,269	42.7	5,646	18.2	282	0.9	19,481	62.7
			Subtotal	565	1.8	20,045	64.5	9,881	31.8	565	1.8	31,056	100.0
	7/10	113	M	0	0.0	7,391	28.3	6,236	23.9	924	3.5	14,551	55.8
	(7/9-10,8/2,3,6-10,		F	0	0.0	7,853	30.1	3,696	14.2	0	0.0	11,549	44.2
	13-16,20,21,23)		Subtotal	0	0.0	15,244	58.4	9,932	38.1	924	3.5	26,100	100.0
	Season	534	M	283	0.2	45,888	31.1	29,669	20.1	3,161	2.1	79,000	53.5
			F	282	0.2	43,913	29.7	23,239	15.7	1,148	0.8	68,582	46.5
			Total	565	0.4	89,801	60.8	52,908	35.8	4,309	2.9	147,582	100.0
1974	6/27	21	M	0	0.0	2,638	9.5	9,233	33.3	3,957	14.3	15,829	57.1
	(6/10-11,13,		F	0	0.0	1,319	4.8	10,553	38.1	0	0.0	11,872	42.9
	14,17-18,27)		Subtotal	0	0.0	3,957	14.3	19,786	71.4	3,957	14.3	27,701	100.0
	7/2	26	M	0	0.0	14,880	26.9	17,006	30.8	2,126	3.8	34,012	61.5
	(7/1-2)		F	0	0.0	12,755	23.1	8,503	15.4	0	0.0	21,257	38.5
			Subtotal	0	0.0	27,635	50.0	25,509	46.2	2,126	3.8	55,269	100.0

Appendix D.1. Age and sex of chum salmon from the District 1 commercial fishery. [ab] (page 2 of 18)

Year	Sample Dates	Sample Size	Sex	Age Class 0.2 Catch	0.2 %	0.3 Catch	0.3 %	0.4 Catch	0.4 %	0.5 Catch	0.5 %	Total Catch	Total %
	7/5	28	M	0	0.0	5,790	21.5	7,720	28.6	0	0.0	13,510	50.0
	(7/4-6)		F	0	0.0	5,790	21.4	7,719	28.5	0	0.0	13,509	50.0
			Subtotal	0	0.0	11,580	42.9	15,439	57.1	0	0.0	27,019	100.0
	7/9	25	M	2,025	4.0	12,153	24.0	6,076	12.0	2,025	4.0	22,280	44.0
	(7/8-9)		F	0	0.0	16,204	32.0	12,153	24.0	0	0.0	28,357	56.0
			Subtotal	2,025	4.0	28,357	56.0	18,229	36.0	2,025	4.0	50,637	100.0
	7/18	56	M	0	0.0	2,234	33.9	235	3.6	118	1.8	2,587	39.3
	(7/18)		F	118	1.8	3,293	50.0	588	8.9	0	0.0	3,998	60.7
			Subtotal	118	1.8	5,527	83.9	823	12.5	118	1.8	6,585	100.0
	8/8	7	M	0	0.0	300	14.3	0	0.0	0	0.0	300	14.3
	(8/1-2,5-8,12-15,19,		F	0	0.0	1,802	85.7	0	0.0	0	0.0	1,802	85.7
	20-22,27-28,9/2)		Subtotal	0	0.0	2,102	100.0	0	0.0	0	0.0	2,102	100.0
	Season	163	M	2,025	1.2	37,996	22.5	40,271	23.8	8,226	4.9	88,518	52.3
			F	118	0.1	41,161	24.3	39,516	23.3	0	0.0	80,795	47.7
			Total	2,143	1.3	79,157	46.8	79,787	47.1	8,226	4.9	169,313	100.0
1975	6/20,30	162	M	0	0.0	13,823	39.5	3,024	8.6	0	0.0	16,847	48.1
	(6/13-7/1)		F	0	0.0	16,846	48.2	1,296	3.7	0	0.0	18,142	51.9
			Subtotal	0	0.0	30,669	87.7	4,320	12.3	0	0.0	34,989	100.0
	7/3	98	M	0	0.0	15,814	45.9	2,460	7.1	0	0.0	18,274	53.1
	(7/3-4)		F	703	2.0	14,759	42.9	0	0.0	703	2.0	16,165	46.9
			Subtotal	703	2.0	30,573	88.8	2,460	7.1	703	2.0	34,439	100.0
	7/7	63	M	0	0.0	12,917	33.3	9,842	25.4	0	0.0	22,759	58.7
	(7/7)		F	0	0.0	11,072	28.6	4,921	12.7	0	0.0	15,993	41.3
			Subtotal	0	0.0	23,989	61.9	14,763	38.1	0	0.0	38,752	100.0
	7/10	89	M	0	0.0	15,201	38.2	447	1.1	0	0.0	15,648	39.3
	(7/10-11)		F	447	1.1	23,696	59.6	0	0.0	0	0.0	24,143	60.7
			Subtotal	447	1.1	38,897	97.8	447	1.1	0	0.0	39,791	100.0
	7/14	66	M	318	1.5	4,767	22.7	636	3.1	0	0.0	5,720	27.3
	(7/13-14)		F	318	1.5	14,300	68.2	635	3.0	0	0.0	15,254	72.7
			Subtotal	636	3.0	19,067	90.9	1,271	6.1	0	0.0	20,974	100.0
	8/1	47	M	0	0.0	982	23.4	0	0.0	0	0.0	982	23.4
	(8/1,4)		F	89	2.1	3,034	72.3	89	2.1	0	0.0	3,213	76.6
			Subtotal	89	2.1	4,016	95.7	89	2.1	0	0.0	4,195	100.0
	8/5,11	2	M	0	0.0	3,211	50.0	0	0.0	0	0.0	3,211	50.0
	(8/5-27)		F	0	0.0	3,210	50.0	0	0.0	0	0.0	3,210	50.0
			Subtotal	0	0.0	6,421	100.0	0	0.0	0	0.0	6,421	100.0
	Season	527	M	318	0.2	66,714	37.2	16,408	9.1	0	0.0	83,440	46.5
			F	1,557	0.8	86,920	48.4	6,942	3.9	703	0.4	96,121	53.5
			Total	1,875	1.0	153,634	85.6	23,350	13.0	703	0.4	179,561	100.0
1976			M	Fish ticket data base and scale cards dates do not match.									
			F	Numbers in data base are smaller than the number of fish sampled.									
			Total										

Appendix D.1. Age and sex of chum salmon from the District 1 commercial fishery. [ab] (page 3 of 18)

Year	Sample Dates	Sample Size	Sex	Age Class 0.2 Catch	0.2 %	0.3 Catch	0.3 %	0.4 Catch	0.4 %	0.5 Catch	0.5 %	Total Catch	Total %
1977	6/15,20	40	M	0	0.0	1,173	50.0	645	27.5	0	0.0	1,818	77.5
	(6/15,20)		F	0	0.0	411	17.5	117	5.0	0	0.0	528	22.5
			Subtotal	0	0.0	1,584	67.5	762	32.5	0	0.0	2,346	100.0
	6/27	110	M	365	0.9	15,316	38.2	1,458	3.6	0	0.0	17,140	42.7
	(6/27)		F	0	0.0	19,328	48.2	3,647	9.1	0	0.0	22,974	57.3
			Subtotal	365	0.9	34,644	86.4	5,105	12.7	0	0.0	40,114	100.0
	6/30	117	M	1,001	1.7	27,015	46.2	2,501	4.3	0	0.0	30,517	52.1
	(6/30)		F	500	0.9	26,514	45.3	1,001	1.7	0	0.0	28,015	47.9
			Subtotal	1,501	2.6	53,529	91.5	3,502	6.0	0	0.0	58,532	100.0
	7/4	114	M	1,630	4.4	12,709	34.2	1,304	3.5	0	0.0	15,642	42.1
	(7/4)		F	1,955	5.2	17,597	47.4	1,629	4.4	326	0.9	21,507	57.9
			Subtotal	3,585	9.6	30,306	81.6	2,933	7.9	326	0.9	37,149	100.0
	7/7	118	M	2,407	4.2	19,256	33.9	1,444	2.6	0	0.0	23,108	40.7
	(7/7)		F	4,814	8.5	26,478	46.6	2,407	4.2	0	0.0	33,698	59.3
			Subtotal	7,221	12.7	45,734	80.5	3,851	6.8	0	0.0	56,806	100.0
	7/14	115	M	2,152	8.7	6,672	27.0	0	0.0	0	0.0	8,824	35.7
	(7/14)		F	2,583	10.4	12,698	51.3	646	2.6	0	0.0	15,926	64.3
			Subtotal	4,735	19.1	19,370	78.3	646	2.6	0	0.0	24,750	100.0
	8/1,9,15	65	M	1,273	10.8	2,182	18.5	0	0.0	0	0.0	3,454	29.2
	(8/1,2,8-10,15,		F	3,454	29.2	4,909	41.5	0	0.0	0	0.0	8,364	70.8
	16,18,22,25,29)		Subtotal	4,727	40.0	7,091	60.0	0	0.0	0	0.0	11,818	100.0
	Season	679	M	8,826	3.8	84,323	36.4	7,353	3.2	0	0.0	100,502	43.4
			F	13,307	5.8	107,934	46.6	9,447	4.1	326	0.1	131,013	56.6
			Total	22,133	9.6	192,257	83.0	16,800	7.3	326	0.1	231,515	100.0
1978	6/9,16	50	M	158	2.0	1,425	18.0	5,382	68.0	317	4.0	7,282	92.0
	(6/9,14,16)		F	0	0.0	158	2.0	475	6.0	0	0.0	633	8.0
			Subtotal	158	2.0	1,583	20.0	5,857	74.0	317	4.0	7,915	100.0
	6/22-23	114	M	0	0.0	1,651	11.4	8,890	61.4	127	0.9	10,668	73.7
	(6/22-23)		F	0	0.0	381	2.6	3,429	23.7	0	0.0	3,810	26.3
			Subtotal	0	0.0	2,032	14.0	12,319	85.1	127	0.9	14,478	100.0
	6/26	116	M	0	0.0	18,501	42.2	12,459	28.5	0	0.0	30,960	70.7
	(6/26)		F	0	0.0	8,306	19.0	4,531	10.3	0	0.0	12,837	29.3
			Subtotal	0	0.0	26,807	61.2	16,990	38.8	0	0.0	43,797	100.0
	6/29	114	M	643	1.8	12,215	33.3	5,786	15.8	0	0.0	18,643	50.9
	(6/29)		F	643	1.7	10,607	29.0	6,750	18.4	0	0.0	18,000	49.1
			Subtotal	1,286	3.5	22,822	62.3	12,536	34.2	0	0.0	36,643	100.0
	7/3	103	M	258	1.0	10,054	37.9	2,062	7.8	0	0.0	12,373	46.6
	(7/3)		F	1,031	3.9	10,053	37.8	3,094	11.6	0	0.0	14,178	53.4
			Subtotal	1,289	4.9	20,107	75.7	5,156	19.4	0	0.0	26,551	100.0
	7/6	119	M	404	0.8	10,897	22.7	4,036	8.4	0	0.0	15,336	31.9
	(7/6)		F	807	1.7	25,830	53.8	6,054	12.6	0	0.0	32,691	68.1
			Subtotal	1,211	2.5	36,727	76.5	10,090	21.0	0	0.0	48,027	100.0
	7/10	116	M	3,347	6.9	3,765	7.8	1,674	3.4	0	0.0	8,786	18.1
	(7/10)		F	5,858	12.1	29,288	60.3	4,602	9.5	0	0.0	39,748	81.9
			Subtotal	9,205	19.0	33,053	68.1	6,276	12.9	0	0.0	48,534	100.0

Appendix D.1. Age and sex of chum salmon from the District 1 commercial fishery. [ab] (page 4 of 18)

Year	Sample Dates	Sample Size	Sex	Age Class 0.2 Catch	0.2 %	0.3 Catch	0.3 %	0.4 Catch	0.4 %	0.5 Catch	0.5 %	Total Catch	Total %
	7/13	105	M	567	3.8	3,829	25.7	567	3.8	0	0.0	4,964	33.3
	(7/13)		F	709	4.8	8,084	54.3	1,135	7.6	0	0.0	9,927	66.7
			Subtotal	1,276	8.6	11,913	80.0	1,702	11.4	0	0.0	14,891	100.0
	8/1	40	M	296	5.0	2,664	45.0	296	5.0	0	0.0	3,256	55.0
	(8/1,4,8,11,15,		F	148	2.5	2,220	37.5	296	5.0	0	0.0	2,664	45.0
	18,22,25,29)		Subtotal	444	7.5	4,884	82.5	592	10.0	0	0.0	5,920	100.0
	Season	877	M	5,673	2.3	65,000	26.3	41,152	16.7	444	0.2	112,268	45.5
			F	9,196	3.7	94,927	38.5	30,365	12.3	0	0.0	134,488	54.5
			Total	14,869	6.0	159,927	64.8	71,517	29.0	444	0.2	246,756	100.0
1979	Season	0	M	Fish ticket total 129,556, AMR reports total as 172,573.									
			F										
			Total										
1980	6/12,18	34	M	0	0.0	6,003	79.4	445	5.9	0	0.0	6,447	85.3
	(6/12,18)		F	0	0.0	1,111	14.7	0	0.0	0	0.0	1,112	14.7
			Subtotal	0	0.0	7,114	94.1	445	5.9	0	0.0	7,559	100.0
	6/23	111	M	0	0.0	48,003	46.8	1,846	1.8	0	0.0	49,849	48.6
	(6/23)		F	923	0.9	50,772	49.6	923	0.9	0	0.0	52,619	51.4
			Subtotal	923	0.9	98,775	96.4	2,769	2.7	0	0.0	102,468	100.0
	6/26	115	M	0	0.0	53,941	40.9	2,295	1.7	0	0.0	56,236	42.6
	(6/26)		F	0	0.0	75,747	57.4	0	0.0	0	0.0	75,747	57.4
			Subtotal	0	0.0	129,688	98.3	2,295	1.7	0	0.0	131,983	100.0
	7/2	114	M	0	0.0	49,336	40.3	1,073	0.9	0	0.0	50,409	41.2
	(7/2)		F	0	0.0	71,859	58.8	0	0.0	0	0.0	71,859	58.8
			Subtotal	0	0.0	121,195	99.1	1,073	0.9	0	0.0	122,268	100.0
	7/9	111	M	0	0.0	34,171	37.8	0	0.0	0	0.0	34,171	37.8
	(7/9)		F	0	0.0	56,139	62.2	0	0.0	0	0.0	56,139	62.2
			Subtotal	0	0.0	90,310	100.0	0	0.0	0	0.0	90,310	100.0
	8/4,14,18,21,25	22	M	285	4.5	1,708	27.3	0	0.0	0	0.0	1,992	31.8
	(8/4,7,11,14,18,		F	1,138	18.2	3,130	50.0	0	0.0	0	0.0	4,269	68.2
	21,25,28)		Subtotal	1,423	22.7	4,838	77.3	0	0.0	0	0.0	6,261	100.0
	Season	507	M	285	0.1	193,162	41.9	5,659	1.2	0	0.0	199,105	43.2
			F	2,061	0.4	258,759	56.2	923	0.2	0	0.0	261,744	56.8
			Total	2,346	0.5	451,921	98.1	6,582	1.4	0	0.0	460,849	100.0
1981	6/10,16	94	M	0	0.0	750	5.3	11,701	83.0	0	0.0	12,451	88.3
	(6/10,16)		F	0	0.0	150	1.1	1,500	10.6	0	0.0	1,650	11.7
			Subtotal	0	0.0	900	6.4	13,201	93.6	0	0.0	14,101	100.0
	6/22	113	M	0	0.0	6,125	8.0	40,152	52.2	0	0.0	46,277	60.2
	(6/22)		F	0	0.0	6,125	7.9	24,500	31.9	0	0.0	30,625	39.8
			Subtotal	0	0.0	12,250	15.9	64,652	84.1	0	0.0	76,902	100.0
	6/25	118	M	0	0.0	10,942	13.5	31,460	39.0	0	0.0	42,403	52.5
	(6/25-26)		F	684	0.8	9,575	11.9	28,041	34.7	0	0.0	38,299	47.5
			Subtotal	684	0.8	20,517	25.4	59,501	73.7	0	0.0	80,702	100.0

Appendix D.1. Age and sex of chum salmon from the District 1 commercial fishery. [ab] (page 5 of 18)

Year	Sample Dates	Sample Size	Sex	Age Class 0.2 Catch	0.2 %	0.3 Catch	0.3 %	0.4 Catch	0.4 %	0.5 Catch	0.5 %	Total Catch	Total %
	6/29	119	M	0	0.0	11,809	22.7	11,809	22.7	437	0.8	24,055	46.2
	(6/29)		F	0	0.0	15,307	29.4	12,683	24.4	0	0.0	27,991	53.8
			Subtotal	0	0.0	27,116	52.1	24,492	47.1	437	0.8	52,046	100.0
	7/2	114	M	0	0.0	8,204	14.0	10,768	18.4	0	0.0	18,972	32.5
	(7/2)		F	513	0.9	18,972	32.5	19,997	34.2	0	0.0	39,481	67.5
			Subtotal	513	0.9	27,176	46.5	30,765	52.6	0	0.0	58,453	100.0
	7/6	111	M	986	1.8	8,381	15.3	12,325	22.5	0	0.0	21,691	39.6
	(7/6)		F	493	0.9	17,747	32.4	14,789	27.0	0	0.0	33,029	60.4
			Subtotal	1,479	2.7	26,128	47.7	27,114	49.5	0	0.0	54,720	100.0
	7/9	107	M	3,091	4.7	14,217	21.5	13,598	20.6	0	0.0	30,906	46.7
	(7/9)		F	1,236	1.8	19,161	29.0	14,835	22.4	0	0.0	35,232	53.3
			Subtotal	4,327	6.5	33,378	50.5	28,433	43.0	0	0.0	66,138	100.0
	8/3,10,13	79	M	56	1.3	1,176	26.6	392	8.9	0	0.0	1,623	36.7
	(8/3,6,10,13,17,		F	224	5.0	2,071	46.8	504	11.4	0	0.0	2,799	63.3
	20,24,27,31)		Subtotal	280	6.3	3,247	73.4	896	20.3	0	0.0	4,422	100.0
	Season	855	M	4,132	1.0	61,603	15.1	132,204	32.4	437	0.1	198,377	48.7
			F	3,150	0.8	89,108	21.9	116,849	28.7	0	0.0	209,107	51.3
			Total	7,282	1.8	150,711	37.0	249,053	61.1	437	0.1	407,484	100.0
1982	6/14,17	102	M	70	1.0	2,175	30.4	4,280	59.8	70	1.0	6,595	92.2
	(6/14,17)		F	0	0.0	421	5.9	140	2.0	0	0.0	561	7.8
			Subtotal	70	1.0	2,596	36.3	4,420	61.8	70	1.0	7,156	100.0
	6/21,24	114	M	202	0.9	6,258	27.2	7,873	34.2	404	1.8	14,736	64.0
	(6/21,24)		F	0	0.0	5,652	24.6	2,624	11.4	0	0.0	8,276	36.0
			Subtotal	202	0.9	11,910	51.8	10,497	45.6	404	1.8	23,012	100.0
	6/28	105	M	1,006	1.0	32,189	30.5	12,071	11.4	0	0.0	45,266	42.9
	(6/28)		F	0	0.0	34,201	32.4	24,142	22.9	2,012	1.9	60,354	57.1
			Subtotal	1,006	1.0	66,390	62.9	36,213	34.3	2,012	1.9	105,620	100.0
	7/2	105	M	741	1.9	11,849	30.5	4,073	10.5	741	1.9	17,403	44.8
	(7/2)		F	0	0.0	15,551	40.0	5,924	15.2	0	0.0	21,475	55.2
			Subtotal	741	1.9	27,400	70.5	9,997	25.7	741	1.9	38,878	100.0
	7/5	114	M	0	0.0	10,596	35.9	2,068	7.0	259	0.9	12,922	43.9
	(7/5)		F	0	0.0	12,664	43.0	3,618	12.3	258	0.9	16,541	56.1
			Subtotal	0	0.0	23,260	78.9	5,686	19.3	517	1.8	29,463	100.0
	7/8	166	M	0	0.0	9,409	32.5	2,265	7.8	0	0.0	11,675	40.4
	(7/8)		F	0	0.0	14,637	50.6	2,614	9.1	0	0.0	17,250	59.6
			Subtotal	0	0.0	24,046	83.1	4,879	16.9	0	0.0	28,925	100.0
	7/12	109	M	189	0.9	8,146	39.4	2,084	10.1	0	0.0	10,420	50.5
	(7/12)		F	0	0.0	8,336	40.4	1,894	9.2	0	0.0	10,230	49.5
			Subtotal	189	0.9	16,482	79.8	3,978	19.3	0	0.0	20,650	100.0
	7/29,8/2,5,9	73	M	68	1.4	815	16.4	475	9.6	0	0.0	1,358	27.4
	(7/29,8/2,5,9,12,		F	339	6.8	2,579	52.1	679	13.7	0	0.0	3,597	72.6
	16,19,23,26,30)		Subtotal	407	8.2	3,394	68.5	1,154	23.3	0	0.0	4,955	100.0
	Season	888	M	2,276	0.9	81,436	31.5	35,188	13.6	1,473	0.5	120,373	46.5
			F	339	0.1	94,041	36.3	41,635	16.1	2,270	0.9	138,286	53.5
			Total	2,615	1.0	175,477	67.8	76,823	29.7	3,743	1.4	258,659	100.0

Appendix D.1. Age and sex of chum salmon from the District 1 commercial fishery. [ab] (page 6 of 18)

Year	Sample Dates	Sample Size	Sex	Age Class 0.2 Catch	0.2 %	0.3 Catch	0.3 %	0.4 Catch	0.4 %	0.5 Catch	0.5 %	Total Catch	Total %
1983	6/13	74	M	0	0.0	67	8.1	516	62.1	0	0.0	583	70.3
	(6/13)		F	0	0.0	34	4.1	213	25.7	0	0.0	247	29.7
			Subtotal	0	0.0	101	12.2	729	87.8	0	0.0	830	100.0
	6/16	65	M	0	0.0	211	21.6	542	55.4	0	0.0	753	76.9
	(6/16)		F	0	0.0	45	4.6	181	18.4	0	0.0	226	23.1
			Subtotal	0	0.0	256	26.2	723	73.8	0	0.0	979	100.0
	6/20	211	M	0	0.0	6,715	23.2	7,674	26.6	685	2.4	15,074	52.1
	(6/20)		F	0	0.0	5,618	19.5	8,222	28.4	0	0.0	13,841	47.9
			Subtotal	0	0.0	12,333	42.7	15,896	55.0	685	2.4	28,915	100.0
	6/23	227	M	0	0.0	3,037	12.3	9,112	37.0	108	0.4	12,258	49.8
	(6/23)		F	0	0.0	4,448	18.1	7,702	31.3	217	0.9	12,367	50.2
			Subtotal	0	0.0	7,485	30.4	16,814	68.3	325	1.3	24,625	100.0
	6/27	235	M	0	0.0	7,245	16.1	15,824	35.3	953	2.1	24,021	53.6
	(6/27)		F	0	0.0	8,007	17.9	12,773	28.5	0	0.0	20,781	46.4
			Subtotal	0	0.0	15,252	34.0	28,597	63.8	953	2.1	44,802	100.0
	6/30	196	M	0	0.0	11,267	20.4	12,676	22.9	563	1.0	24,506	44.4
	(6/30)		F	282	0.5	14,929	27.0	15,492	28.1	0	0.0	30,703	55.6
			Subtotal	282	0.5	26,196	47.4	28,168	51.0	563	1.0	55,209	100.0
	7/4	229	M	0	0.0	9,804	21.0	10,213	21.8	409	0.9	20,426	43.7
	(7/4)		F	204	0.4	13,073	27.9	12,664	27.1	408	0.8	26,350	56.3
			Subtotal	204	0.4	22,877	48.9	22,877	48.9	817	1.7	46,776	100.0
	7/7	187	M	395	1.1	8,500	23.0	6,524	17.7	198	0.5	15,617	42.2
	(7/7)		F	0	0.0	13,838	37.4	7,512	20.3	0	0.0	21,350	57.8
			Subtotal	395	1.1	22,338	60.4	14,036	38.0	198	0.5	36,967	100.0
	7/11	226	M	364	1.8	6,096	29.7	3,548	17.3	0	0.0	10,008	48.7
	(7/11)		F	455	2.2	6,459	31.4	3,639	17.7	0	0.0	10,553	51.3
			Subtotal	819	4.0	12,555	61.1	7,187	35.0	0	0.0	20,561	100.0
	8/1,8	55	M	162	1.8	2,590	29.1	809	9.1	0	0.0	3,561	40.0
	(8/1,4,8,11,		F	324	3.7	4,371	49.1	648	7.3	0	0.0	5,342	60.0
	15,18,22,26)		Subtotal	486	5.5	6,961	78.2	1,457	16.4	0	0.0	8,903	100.0
	Season	1,705	M	921	0.3	55,533	20.7	67,438	25.1	2,916	1.1	126,808	47.2
			F	1,265	0.5	70,822	26.3	69,047	25.7	626	0.2	141,759	52.8
			Total	2,186	0.8	126,355	47.0	136,485	50.8	3,542	1.3	268,567	100.0
1984	6/18	207	M	0	0.0	1,262	21.7	1,962	33.8	140	2.4	3,364	58.0
	(6/18)		F	0	0.0	1,626	28.0	813	14.0	0	0.0	2,439	42.0
			Subtotal	0	0.0	2,887	49.8	2,775	47.8	140	2.4	5,803	100.0
	6/21	190	M	0	0.0	9,303	42.1	2,326	10.5	465	2.1	12,094	54.7
	(6/21)		F	0	0.0	9,070	41.1	698	3.2	233	1.1	10,000	45.3
			Subtotal	0	0.0	18,373	83.2	3,023	13.7	698	3.2	22,094	100.0
	6/25	197	M	99	0.5	10,545	53.3	500	2.5	301	1.5	11,445	57.9
	(6/25)		F	0	0.0	7,632	38.6	593	3.0	99	0.5	8,324	42.1
			Subtotal	99	0.5	18,177	91.9	1,093	5.5	399	2.0	19,773	100.0
	6/28	209	M	0	0.0	30,188	45.0	3,854	5.7	0	0.0	34,042	50.7
	(6/28)		F	0	0.0	29,546	44.0	3,533	5.3	0	0.0	33,078	49.3
			Subtotal	0	0.0	59,734	89.0	7,386	11.0	0	0.0	67,120	100.0

Appendix D.1. Age and sex of chum salmon from the District 1 commercial fishery. [ab] (page 7 of 18)

Year	Sample Dates	Sample Size	Sex	Age Class 0.2 Catch	0.2 %	0.3 Catch	0.3 %	0.4 Catch	0.4 %	0.5 Catch	0.5 %	Total Catch	Total %
	7/2	203	M	349	0.5	21,319	30.5	2,097	3.0	349	0.5	24,114	34.5
	(7/2)		F	0	0.0	42,358	60.6	3,425	4.9	0	0.0	45,783	65.5
			Subtotal	349	0.5	63,676	91.1	5,522	7.9	349	0.5	69,897	100.0
	7/5	200	M	275	0.5	15,670	28.5	1,375	2.5	0	0.0	17,319	31.5
	(7/5)		F	275	0.5	34,913	63.5	2,474	4.5	0	0.0	37,662	68.5
			Subtotal	550	1.0	50,583	92.0	3,849	7.0	0	0.0	54,981	100.0
	7/9	212	M	0	0.0	11,526	31.6	1,541	4.2	339	0.9	13,406	36.8
	(7/9)		F	339	0.9	20,964	57.5	1,724	4.7	0	0.0	23,026	63.2
			Subtotal	339	0.9	32,490	89.2	3,265	9.0	339	0.9	36,440	100.0
	7/12	207	M	0	0.0	7,269	30.0	234	1.0	234	1.0	7,738	31.9
	(7/12)		F	117	0.5	15,359	63.3	1,055	4.3	0	0.0	16,531	68.1
			Subtotal	117	0.5	22,628	93.2	1,290	5.3	234	1.0	24,269	100.0
	7/16	209	M	118	0.5	5,086	21.5	781	3.3	118	0.5	6,103	25.8
	(7/16,30,8/2,6,9,13		F	1,024	4.3	15,051	63.6	1,355	5.7	118	0.5	17,549	74.2
	16,20,23,27,30,9/3)		Subtotal	1,142	4.8	20,137	85.1	2,136	9.0	237	1.0	23,654	100.0
	Season	1,834	M	842	0.3	112,166	34.6	14,670	4.5	1,947	0.6	129,624	40.0
			F	1,755	0.5	176,518	54.5	15,670	4.8	450	0.1	194,393	60.0
			Total	2,597	0.8	288,684	89.1	30,340	9.4	2,397	0.7	324,031	100.0
1985	6/20	222	M	99	0.5	1,245	6.3	8,004	40.5	0	0.0	9,347	47.3
	(6/20)		F	0	0.0	2,055	10.4	8,359	42.3	0	0.0	10,415	52.7
			Subtotal	99	0.5	3,300	16.7	16,363	82.8	0	0.0	19,762	100.0
	6/24	176	M	0	0.0	4,864	11.4	13,377	31.3	244	0.6	18,484	43.2
	(6/24)		F	0	0.0	7,058	16.5	17,240	40.3	0	0.0	24,298	56.8
			Subtotal	0	0.0	11,922	27.9	30,616	71.6	244	0.6	42,778	100.0
	6/27	207	M	0	0.0	8,478	17.9	10,993	23.2	228	0.5	19,698	41.5
	(6/27)		F	0	0.0	10,105	21.3	17,412	36.7	228	0.5	27,745	58.5
			Subtotal	0	0.0	18,583	39.2	28,404	59.9	455	1.0	47,443	100.0
	7/1	211	M	427	0.9	12,153	25.6	13,292	28.0	0	0.0	25,872	54.5
	(7/1)		F	679	1.4	8,322	17.5	12,594	26.5	0	0.0	21,595	45.5
			Subtotal	1,106	2.3	20,474	43.1	25,886	54.5	0	0.0	47,471	100.0
	7/4	213	M	0	0.0	5,630	19.7	6,831	23.9	143	0.5	12,604	44.1
	(7/4)		F	143	0.5	7,374	25.8	8,460	29.6	0	0.0	15,977	55.9
			Subtotal	143	0.5	13,004	45.5	15,291	53.5	143	0.5	28,581	100.0
	8/1	34	M	151	2.9	457	8.8	1,066	20.6	0	0.0	1,673	32.3
	(8/1,5,8,12,15,		F	0	0.0	2,588	50.0	910	17.6	0	0.0	3,498	67.6
	19,22,26,29)		Subtotal	151	2.9	3,044	58.9	1,976	38.2	0	0.0	5,173	100.0
	Season	1,063	M	677	0.4	32,827	17.2	53,561	28.0	614	0.3	87,679	45.9
			F	822	0.4	37,502	19.6	64,975	34.0	228	0.1	103,526	54.1
			Total	1,498	0.8	70,329	36.8	118,536	62.0	842	0.4	191,208	100.0
1986	6/26	203	M	0	0.0	19,719	28.6	5,792	8.4	0	0.0	25,510	37.0
	(6/26)		F	0	0.0	31,578	45.8	11,514	16.7	345	0.5	43,437	63.0
			Subtotal	0	0.0	51,297	74.4	17,306	25.1	345	0.5	68,947	100.0
	6/30	216	M	304	0.5	21,942	36.1	8,145	13.4	0	0.0	30,390	50.0
	(6/30)		F	0	0.0	21,942	36.1	8,145	13.4	304	0.5	30,390	50.0
			Subtotal	304	0.5	43,883	72.2	16,289	26.8	304	0.5	60,780	100.0

Appendix D.1. Age and sex of chum salmon from the District 1 commercial fishery. [ab] (page 8 of 18)

Year	Sample Dates	Sample Size	Sex	Age Class 0.2 Catch	0.2 %	0.3 Catch	0.3 %	0.4 Catch	0.4 %	0.5 Catch	0.5 %	Total Catch	Total %
	7/3	218	M	0	0.0	30,793	46.8	10,580	16.1	316	0.5	41,689	63.3
	(7/3)		F	0	0.0	18,698	28.4	5,135	7.8	316	0.5	24,150	36.7
			Subtotal	0	0.0	49,491	75.2	15,716	23.9	632	1.0	65,839	100.0
	7/7	211	M	280	0.5	19,874	35.5	5,038	9.0	280	0.5	25,472	45.5
	(7/7)		F	0	0.0	24,129	43.1	6,382	11.4	0	0.0	30,511	54.5
			Subtotal	280	0.5	44,003	78.6	11,421	20.4	280	0.5	55,983	100.0
	7/10	216	M	253	0.5	16,564	31.5	2,933	5.6	0	0.0	19,750	37.5
	(7/10,31,8/4,7,		F	474	0.9	27,326	51.9	5,107	9.7	0	0.0	32,908	62.5
	11,13,15,21,28)		Subtotal	727	1.4	43,891	83.4	8,040	15.3	0	0.0	52,652	100.0
	Season	1,064	M	837	0.3	108,892	35.8	32,488	10.7	596	0.2	142,812	46.9
			F	474	0.2	123,673	40.7	36,283	11.9	965	0.3	161,395	53.1
			Total	1,310	0.4	232,564	76.5	68,771	22.6	1,561	0.5	304,201	100.0
1987	6/18	36	M	0	0.0	1,178	8.3	3,534	25.0	0	0.0	4,712	33.3
	(6/18)		F	0	0.0	2,356	16.7	7,069	50.0	0	0.0	9,425	66.7
			Subtotal	0	0.0	3,534	25.0	10,603	75.0	0	0.0	14,137	100.0
	6/24	220	M	0	0.0	5,940	10.9	19,306	35.4	495	0.9	25,742	47.3
	(6/24)		F	0	0.0	9,406	17.3	18,564	34.1	743	1.4	28,712	52.7
			Subtotal	0	0.0	15,346	28.2	37,870	69.5	1,238	2.3	54,454	100.0
	6/30; 7/3	215	M	0	0.0	46,818	26.1	35,113	19.5	1,672	0.9	83,603	46.5
	(6/30; 7/3)		F	836	0.5	45,145	25.1	50,162	27.9	0	0.0	96,143	53.5
			Subtotal	836	0.5	91,963	51.2	85,275	47.4	1,672	0.9	179,746	100.0
	7/7	213	M	968	0.9	21,289	20.6	19,354	18.8	0	0.0	41,611	40.4
	(7/7)		F	484	0.5	33,869	32.9	27,095	26.3	0	0.0	61,448	59.6
			Subtotal	1,452	1.4	55,158	53.5	46,449	45.1	0	0.0	103,059	100.0
	7/11	214	M	1,011	1.4	15,502	21.5	13,143	18.2	674	0.9	30,330	42.1
	(7/11)		F	674	0.9	24,264	33.6	16,513	22.9	337	0.5	41,788	57.9
			Subtotal	1,685	2.3	39,766	55.1	29,656	41.1	1,011	1.4	72,118	100.0
	7/15	198	M	1,090	1.5	17,072	23.7	11,261	15.7	363	0.5	29,786	41.4
	(7/15)		F	363	0.5	27,607	38.4	14,166	19.7	0	0.0	42,137	58.6
			Subtotal	1,453	2.0	44,679	62.1	25,427	35.4	363	0.5	71,923	100.0
	7/20	216	M	987	1.4	18,095	25.5	8,883	12.5	0	0.0	27,964	39.4
	(7/20,8/6,13,17,19,		F	1,974	2.8	30,925	43.5	9,869	13.9	329	0.5	43,098	60.6
	21,24,27,31,9/3,7)		Subtotal	2,961	4.2	49,020	69.0	18,752	26.4	329	0.5	71,062	100.0
	Season	1,312	M	4,055	0.7	125,894	22.2	110,594	19.5	3,204	0.6	243,748	43.0
			F	4,331	0.8	173,573	30.7	143,439	25.3	1,409	0.2	322,751	57.0
			Total	8,386	1.5	299,467	52.9	254,033	44.8	4,613	0.8	566,499	100.0
1988	6/16	207	M	0	0.0	21,305	29.5	14,660	20.3	1,372	1.9	37,337	51.7
	(6/16)		F	0	0.0	17,766	24.6	15,383	21.3	1,733	2.4	34,882	48.3
			Subtotal	0	0.0	39,070	54.1	30,043	41.6	3,105	4.3	72,219	100.0
	6/20	180	M	0	0.0	28,407	25.0	26,475	23.3	659	0.6	55,541	48.9
	(6/20)		F	0	0.0	37,236	32.8	20,192	17.8	659	0.6	58,087	51.1
			Subtotal	0	0.0	65,643	57.8	46,667	41.1	1,318	1.2	113,628	100.0
	6/24	207	M	0	0.0	39,417	32.9	13,299	11.1	1,677	1.4	54,393	45.4
	(6/24)		F	0	0.0	48,642	40.6	15,575	13.0	1,198	1.0	65,415	54.6
			Subtotal	0	0.0	88,059	73.5	28,874	24.1	2,875	2.4	119,808	100.0

Appendix D.1. Age and sex of chum salmon from the District 1 commercial fishery. [ab] (page 9 of 18)

Year	Sample Dates	Sample Size	Sex	Age Class 0.2 Catch	0.2 %	0.3 Catch	0.3 %	0.4 Catch	0.4 %	0.5 Catch	0.5 %	Total Catch	Total %
	6/28	209	M	1,494	1.0	67,726	44.0	32,453	21.1	0	0.0	101,673	66.0
	(6/28)		F	0	0.0	37,583	24.4	14,016	9.1	770	0.5	52,369	34.0
			Subtotal	1,494	1.0	105,308	68.4	46,470	30.2	770	0.5	154,027	100.0
	7/2	164	M	0	0.0	88,264	47.0	19,487	10.4	1,071	0.6	108,822	57.9
	(7/2)		F	0	0.0	69,905	37.2	9,208	4.9	0	0.0	79,113	42.1
			Subtotal	0	0.0	158,169	84.2	28,695	15.3	1,071	0.6	187,916	100.0
	7/5	206	M	1,590	1.0	73,222	44.7	11,917	7.3	0	0.0	86,728	52.9
	(7/5)		F	820	0.5	63,600	38.8	12,786	7.8	0	0.0	77,205	47.1
			Subtotal	2,410	1.5	136,822	83.5	24,702	15.1	0	0.0	163,917	100.0
	7/8	170	M	833	0.6	62,031	44.7	9,853	7.1	0	0.0	72,717	52.4
	(7/8)		F	833	0.6	59,533	42.9	5,690	4.1	0	0.0	66,055	47.6
			Subtotal	1,665	1.2	121,564	87.6	15,542	11.2	0	0.0	138,772	100.0
	7/11	202	M	646	0.5	60,574	44.1	6,144	4.5	0	0.0	67,364	49.0
	(7/11)		F	0	0.0	66,663	48.5	3,436	2.5	0	0.0	70,100	51.0
			Subtotal	646	0.5	127,237	92.6	9,580	7.0	0	0.0	137,450	100.0
	7/14	207	M	585	0.5	27,712	23.7	8,419	7.2	0	0.0	36,716	31.4
	(7/14)		F	1,169	1.0	73,432	62.8	5,028	4.3	585	0.5	80,214	68.6
			Subtotal	1,754	1.5	101,144	86.5	13,447	11.5	585	0.5	116,930	100.0
	7/18	202	M	601	1.0	21,436	37.1	3,430	5.9	0	0.0	25,467	44.1
	(7/18)		F	1,155	2.0	27,720	48.0	3,118	5.4	289	0.5	32,282	55.9
			Subtotal	1,756	3.0	49,156	85.1	6,549	11.3	289	0.5	57,749	100.0
	7/21	210	M	0	0.0	16,610	41.9	1,895	4.8	0	0.0	18,505	46.7
	(7/21)		F	0	0.0	19,251	48.6	1,895	4.8	0	0.0	21,146	53.3
			Subtotal	0	0.0	35,861	90.5	3,790	9.6	0	0.0	39,643	100.0
	7/25,28	240	M	249	0.4	23,698	39.6	3,492	5.8	499	0.8	27,939	46.7
	(7/25,28,8/1,4,8,10,		F	748	1.3	28,687	47.9	2,495	4.2	0	0.0	31,930	53.3
	12,15,18,20,27,31)		Subtotal	998	1.7	52,385	87.5	5,987	10.0	499	0.8	59,869	100.0
	Season	2,404	M	5,997	0.4	530,403	38.9	151,525	11.1	5,279	0.4	693,204	50.9
			F	4,725	0.3	550,017	40.4	108,821	8.0	5,234	0.4	668,797	49.1
			Total	10,722	0.8	1,080,420	79.3	260,346	19.1	10,512	0.8	1,361,928	100.0
1989	6/19	147	M	0	0.0	6,268	15.0	11,617	27.8	293	0.7	18,178	43.5
	(6/19)		F	0	0.0	5,683	13.6	17,092	40.9	836	2.0	23,611	56.5
			Subtotal	0	0.0	11,952	28.6	28,709	68.7	1,128	2.7	41,789	100.0
	6/23	(est.)	M	0	0.0	11,128	17.0	17,988	27.4	230	0.4	29,346	44.7
	(6/23)		F	0	0.0	10,241	15.6	25,407	38.7	657	1.0	36,304	55.3
			Subtotal	0	0.0	21,369	32.6	43,395	66.1	886	1.4	65,650	100.0
	6/26	74	M	0	0.0	6,118	18.9	8,741	27.0	0	0.0	14,859	45.9
	(6/26)		F	0	0.0	5,698	17.6	11,816	36.5	0	0.0	17,514	54.1
			Subtotal	0	0.0	11,816	36.5	20,557	63.5	0	0.0	32,373	100.0
	6/30	75	M	0	0.0	19,349	14.7	50,940	38.7	1,711	1.3	72,001	54.7
	(6/30)		F	0	0.0	21,061	16.0	38,567	29.3	0	0.0	59,628	45.3
			Subtotal	0	0.0	40,410	30.7	89,508	68.0	1,711	1.3	131,629	100.0
	7/3	79	M	0	0.0	15,072	16.5	24,298	26.6	0	0.0	39,370	43.1
	(7/3)		F	0	0.0	12,697	13.9	38,091	41.7	1,187	1.3	51,975	56.9
			Subtotal	0	0.0	27,769	30.4	62,389	68.3	1,187	1.3	91,345	100.0

Appendix D.1. Age and sex of chum salmon from the District 1 commercial fishery. [ab] (page 10 of 18)

Year	Sample Dates	Sample Size	Sex	Age Class 0.2 Catch	0.2 %	0.3 Catch	0.3 %	0.4 Catch	0.4 %	0.5 Catch	0.5 %	Total Catch	Total %
	7/5	65	M	0	0.0	17,145	20.0	31,719	37.0	0	0.0	48,864	57.0
	(7/5)		F	0	0.0	11,830	13.8	25,032	29.2	0	0.0	36,863	43.0
			Subtotal	0	0.0	28,976	33.8	56,751	66.2	0	0.0	85,727	100.0
	7/8	(est.)	M	0	0.0	20,301	17.1	39,589	33.3	0	0.0	59,890	50.3
	(7/8)		F	0	0.0	26,492	22.3	31,910	26.8	774	0.7	59,176	49.7
			Subtotal	0	0.0	46,793	39.3	71,499	60.1	774	0.7	119,066	100.0
	7/11	78	M	0	0.0	11,005	14.1	23,026	29.5	0	0.0	34,031	43.6
	(7/11)		F	0	0.0	23,962	30.7	19,045	24.4	1,015	1.3	44,022	56.4
			Subtotal	0	0.0	34,968	44.8	42,071	53.9	1,015	1.3	78,053	100.0
	7/14	71	M	622	1.4	6,882	15.5	8,747	19.7	0	0.0	16,251	36.6
	(7/14)		F	0	0.0	19,403	43.7	8,125	18.3	622	1.4	28,150	63.4
			Subtotal	622	1.4	26,285	59.2	16,872	38.0	622	1.4	44,401	100.0
	7/18	66	M	0	0.0	6,239	16.7	8,480	22.7	560	1.5	15,280	40.9
	(7/18,27,8/3,7,9,12,		F	560	1.5	11,880	31.8	9,639	25.8	0	0.0	22,079	59.1
	15,18,23,26,29,9/1)		Subtotal	560	1.5	18,119	48.5	18,119	48.5	560	1.5	37,359	100.0
	Season	655	M	622	0.1	119,509	16.4	225,146	31.0	2,794	0.4	348,070	47.9
			F	560	0.1	148,948	20.5	224,723	30.9	5,090	0.7	379,322	52.1
			Total	1,182	0.2	268,457	36.9	449,869	61.8	7,884	1.1	727,392	100.0
1990	6/20	28	M	0	0.0	9,728	32.1	16,244	53.6	1,091	3.6	27,063	89.3
	(6/20)		F	0	0.0	3,243	10.7	0	0.0	0	0.0	3,243	10.7
			Subtotal	0	0.0	12,971	42.8	16,244	53.6	1,091	3.6	30,306	100.0
	6/25	101	M	0	0.0	18,685	31.7	20,395	34.6	2,358	4.0	41,438	70.3
	(6/25)		F	0	0.0	10,492	17.8	7,014	11.9	0	0.0	17,506	29.7
			Subtotal	0	0.0	29,177	49.5	27,409	46.5	2,358	4.0	58,944	100.0
	6/29	77	M	974	1.3	17,529	23.4	8,765	11.7	974	1.3	28,241	37.7
	(6/29)		F	974	1.3	39,853	53.2	5,843	7.8	0	0.0	46,670	62.3
			Subtotal	1,948	2.6	57,382	76.6	14,608	19.5	974	1.3	74,911	100.0
	7/5	77	M	0	0.0	31,608	36.4	16,933	19.5	0	0.0	48,541	55.9
	(7/5)		F	0	0.0	29,263	33.7	9,031	10.4	0	0.0	38,294	44.1
			Subtotal	0	0.0	60,871	70.1	25,964	29.9	0	0.0	86,835	100.0
	7/9	77	M	0	0.0	26,144	28.6	5,942	6.5	0	0.0	32,085	35.1
	(7/9)		F	0	0.0	43,969	48.1	14,169	15.5	1,188	1.3	59,326	64.9
			Subtotal	0	0.0	70,112	76.7	20,110	22.0	1,188	1.3	91,411	100.0
	7/14	59	M	0	0.0	24,340	30.5	4,070	5.1	0	0.0	28,410	35.6
	(7/14)		F	0	0.0	40,540	50.8	10,853	13.6	0	0.0	51,393	64.4
			Subtotal	0	0.0	64,880	81.3	14,923	18.7	0	0.0	79,803	100.0
	8/1	82	M	109	1.2	3,092	34.1	0	0.0	0	0.0	3,200	35.3
	(8/1)		F	109	1.2	5,313	58.6	444	4.9	0	0.0	5,866	64.7
			Subtotal	218	2.4	8,404	92.7	444	4.9	0	0.0	9,066	100.0
	8/6	57	M	289	3.5	2,322	28.1	149	1.8	0	0.0	2,760	33.4
	(8/6,10,13,16,20,27)		F	289	3.5	4,346	52.6	868	10.5	0	0.0	5,503	66.6
			Subtotal	578	7.0	6,668	80.7	1,016	12.3	0	0.0	8,263	100.0
	Season	558	M	1,372	0.3	133,447	30.4	72,496	16.5	4,423	1.0	211,738	48.2
			F	1,372	0.3	177,018	40.3	48,222	11.0	1,188	0.3	227,801	51.8
			Total	2,744	0.6	310,466	70.6	120,718	27.5	5,611	1.3	439,539	100.0

Appendix D.1. Age and sex of chum salmon from the District 1 commercial fishery. [ab] (page 11 of 18)

Year	Sample Dates	Sample Size	Sex	Age Class 0.2 Catch	0.2 %	0.3 Catch	0.3 %	0.4 Catch	0.4 %	0.5 Catch	0.5 %	Total Catch	Total %
1991	6/20	154	M	0	0.0	1,981	14.9	3,360	25.3	0	0.0	5,341	40.3
	(6/20)		F	0	0.0	2,498	18.8	5,427	40.9	0	0.0	7,925	59.7
			Subtotal	0	0.0	4,479	33.8	8,787	66.2	0	0.0	13,266	100.0
	6/24	145	M	211	0.7	8,026	26.2	7,394	24.1	0	0.0	15,631	51.0
	(6/24)		F	0	0.0	7,394	24.1	7,605	24.8	0	0.0	14,999	49.0
			Subtotal	211	0.7	15,420	50.3	14,999	49.0	0	0.0	30,632	100.0
	7/1	172	M (est.)	0	0.0	16,386	32.7	11,392	22.7	0	0.0	27,320	54.5
	(7/1)		F (est.)	0	0.0	13,219	26.4	9,336	18.6	0	0.0	22,799	45.5
			Subtotal	0	0.0	29,070	58.0	21,051	42.0	0	0.0	50,121	100.0
	7/6	169	M	237	0.6	14,697	36.7	8,059	20.1	237	0.6	23,230	58.0
	(7/6)		F	711	1.8	11,141	27.8	4,978	12.4	0	0.0	16,830	42.0
			Subtotal	948	2.4	25,838	64.5	13,037	32.5	237	0.6	40,060	100.0
	7/13	136	M	386	0.7	14,684	27.9	6,569	12.5	0	0.0	21,639	41.2
	(7/13)		F	1,159	2.2	19,321	36.8	10,433	19.9	0	0.0	30,913	58.8
			Subtotal	1,546	2.9	34,004	64.7	17,002	32.4	0	0.0	52,552	100.0
	7/18	153	M	1,545	2.0	23,176	29.4	10,300	13.1	0	0.0	35,021	44.4
	(7/18)		F	2,060	2.6	31,416	39.9	10,300	13.1	0	0.0	43,776	55.6
			Subtotal	3,605	4.6	54,591	69.3	20,601	26.1	0	0.0	78,797	100.0
	7/22	158	M	0	0.0	17,233	26.6	8,206	12.7	0	0.0	25,439	39.2
	(7/22,25)		F	821	1.3	26,670	41.1	11,899	18.4	0	0.0	39,390	60.8
			Subtotal	821	1.3	43,904	67.7	20,105	31.0	0	0.0	64,830	100.0
	7/29	146	M	535	1.4	9,365	24.0	3,479	8.9	0	0.0	13,379	34.2
	(7/25,29)		F	535	1.4	20,069	51.4	5,084	13.0	0	0.0	25,688	65.8
			Subtotal	1,070	2.7	29,434	75.3	8,563	21.9	0	0.0	39,067	100.0
	8/1	146	M	90	0.7	2,781	21.2	718	5.5	0	0.0	3,588	27.4
	(8/1)		F	90	0.7	7,267	55.5	2,153	16.4	0	0.0	9,510	72.6
			Subtotal	179	1.4	10,048	76.7	2,871	21.9	0	0.0	13,098	100.0
	8/5	142	M	128	2.1	1,565	25.7	518	8.5	0	0.0	2,211	36.3
	(8/5)		F	85	1.4	3,149	51.7	646	10.6	0	0.0	3,880	63.7
			Subtotal	213	3.5	4,714	77.4	1,163	19.1	0	0.0	6,091	100.0
	8/8	109	M	0	0.0	1,950	33.5	489	8.4	0	0.0	2,439	41.9
	(8/8,12,14,19,26)		F	76	1.3	2,666	45.8	640	11.0	0	0.0	3,381	58.1
			Subtotal	76	1.3	4,615	79.3	1,129	19.4	0	0.0	5,820	100.0
	Season	1,630	M	3,133	0.8	111,844	28.4	60,483	15.3	237	0.1	175,238	44.4
			F	5,537	1.4	144,809	36.7	68,501	17.4	0	0.0	219,091	55.6
			Total	8,669	2.2	256,117	64.9	129,308	32.8	237	0.1	394,334	100.0
1992	6/18	181	M	0	0.0	7,029	21.5	14,451	44.2	915	2.8	22,396	68.5
	(6/18)		F	0	0.0	4,708	14.4	5,231	16.0	360	1.1	10,299	31.5
			Subtotal	0	0.0	11,738	35.9	19,682	60.2	1,275	3.9	32,695	100.0
	6/22	188	M	0	0.0	14,037	18.9	26,914	36.2	1,154	1.6	42,104	56.6
	(6/22)		F	0	0.0	11,045	14.8	20,959	28.2	335	0.5	32,339	43.5
			Subtotal	0	0.0	25,083	33.7	47,873	64.3	1,489	2.0	74,429	100.0
	6/25	182	M	0	0.0	11,519	20.9	14,550	26.4	606	1.1	26,675	48.4
	(6/25)		F	0	0.0	9,976	18.1	18,463	33.5	0	0.0	28,439	51.6
			Subtotal	0	0.0	21,494	39.0	33,013	59.9	606	1.1	55,114	100.0

Appendix D.1. Age and sex of chum salmon from the District 1 commercial fishery. [ab] (page 12 of 18)

Year	Sample Dates	Sample Size	Sex	Age Class 0.2 Catch	0.2 %	0.3 Catch	0.3 %	0.4 Catch	0.4 %	0.5 Catch	0.5 %	Total Catch	Total %
	6/29	191	M	0	0.0	14,294	17.8	19,748	24.6	802	1.0	34,845	43.4
	(6/29)		F	0	0.0	20,150	25.1	24,409	30.4	802	1.0	45,360	56.6
			Subtotal	0	0.0	34,443	42.9	44,157	55.1	1,604	2.0	80,213	100.0
	7/6	191	M	0	0.0	26,875	31.9	14,583	17.3	429	0.5	41,888	49.8
	(7/6)		F	0	0.0	23,339	27.7	17,614	20.9	1,356	1.6	42,308	50.3
			Subtotal	0	0.0	50,214	59.6	32,197	38.2	1,785	2.1	84,196	100.0
	8/3	154	M	0	0.0	1,857	28.6	463	7.1	0	0.0	2,320	35.8
	(8/3,6,11,14,17,		F	41	0.6	3,369	51.9	716	11.0	41	0.6	4,167	64.2
	20,24,27,31)		Subtotal	41	0.6	5,226	80.5	1,180	18.2	41	0.6	6,489	100.0
	Season	1,677	M	0	0.0	75,612	22.7	90,709	27.2	3,907	1.2	170,228	51.1
			F	41	0.0	72,587	21.8	87,393	26.2	2,893	0.9	162,913	48.9
			Total	41	0.0	148,199	44.5	178,102	53.5	6,800	2.0	333,136	100.0
1993	6/25	194	M	0	0.0	4,914	14.4	13,547	39.7	1,399	4.1	19,860	58.2
	(6/25)		F	171	0.5	4,402	12.9	8,633	25.3	1,058	3.1	14,263	41.8
			Subtotal	171	0.5	9,316	27.3	22,180	65.0	2,457	7.2	34,123	100.0
	7/31	124	M	275	3.2	1,667	19.4	1,315	15.3	0	0.0	3,258	37.9
	(7/31,8/3,6,11,14,		F	138	1.6	2,776	32.3	2,218	25.8	206	2.4	5,337	62.1
	17,20,24,27,31)		Subtotal	413	4.8	4,444	51.7	3,533	41.1	206	2.4	8,595	100.0
	Season	318	M	275	0.6	6,581	15.4	14,862	34.8	1,399	3.3	23,117	54.1
			F	308	0.7	7,178	16.8	10,851	25.4	1,264	3.0	19,601	45.9
			Total	583	1.4	13,759	32.2	25,712	60.2	2,663	6.2	42,718	100.0
1994	6/24	173	M	0	0.0	21,193	24.3	22,676	26.0	3,489	4.0	47,357	54.3
	(6/24)		F	0	0.0	22,152	25.4	16,658	19.1	1,047	1.2	39,857	45.7
			Subtotal	0	0.0	43,345	49.7	39,334	45.1	4,535	5.2	87,214	100.0
	7/14	195	M	218	0.5	11,855	27.2	3,138	7.2	0	0.0	15,211	34.9
	(7/14)		F	218	0.5	22,359	51.3	5,143	11.8	654	1.5	28,374	65.1
			Subtotal	436	1.0	34,214	78.5	8,281	19.0	654	1.5	43,585	100.0
	7/19	190	M	301	0.5	18,993	31.6	3,186	5.3	0	0.0	22,479	37.4
	(7/19)		F	301	0.5	31,014	51.6	6,010	10.0	301	0.5	37,625	62.6
			Subtotal	601	1.0	50,007	83.2	9,196	15.3	301	0.5	60,104	100.0
	7/23	188	M	191	0.5	17,434	45.7	1,640	4.3	0	0.0	19,265	50.5
	(7/23)		F	420	1.1	16,633	43.6	1,831	4.8	0	0.0	18,884	49.5
			Subtotal	610	1.6	34,067	89.3	3,472	9.1	0	0.0	38,149	100.0
	7/26	192	M	117	0.5	4,802	21.4	1,406	6.3	0	0.0	6,325	28.2
	(7/26)		F	117	0.5	14,038	62.5	1,990	8.9	0	0.0	16,144	71.9
			Subtotal	234	1.0	18,839	83.9	3,396	15.1	0	0.0	22,460	100.0
	7/29	190	M	0	0.0	2,971	26.4	709	6.3	0	0.0	3,679	32.7
	(7/29)		F	56	0.5	6,515	57.9	1,001	8.9	0	0.0	7,573	67.3
			Subtotal	56	0.5	9,485	84.3	1,710	15.2	0	0.0	11,252	100.0
	8/4	128	M	0	0.0	1,059	26.6	311	7.8	0	0.0	1,370	34.4
	(8/4)		F	0	0.0	2,051	51.5	562	14.1	0	0.0	2,613	65.6
			Subtotal	0	0.0	3,111	78.1	872	21.9	0	0.0	3,983	100.0

Appendix D.1. Age and sex of chum salmon from the District 1 commercial fishery. [ab] (page 13 of 18)

Year	Sample Dates	Sample Size	Sex	Age Class 0.2 Catch	0.2 %	0.3 Catch	0.3 %	0.4 Catch	0.4 %	0.5 Catch	0.5 %	Total Catch	Total %
	8/9	133	M	0	0.0	887	33.1	121	4.5	0	0.0	1,007	37.6
	(8/9,12,15,18,22,25,		F	0	0.0	1,431	53.4	241	9.0	0	0.0	1,672	62.4
	27,9/1)		Subtotal	0	0.0	2,317	86.5	362	13.5	0	0.0	2,679	100.0
	Season	1,389	M	826	0.3	79,194	29.4	33,186	12.3	3,489	1.3	116,694	43.3
			F	1,111	0.4	116,192	43.1	33,437	12.4	2,001	0.7	152,741	56.7
			Total	1,937	0.7	195,386	72.5	66,622	24.7	5,489	2.0	269,426	100.0
1995	6/22	190	M	0	0.0	12,412	25.3	14,501	29.5	787	1.6	27,700	56.4
	(6/22)		F	246	0.5	10,593	21.6	10,618	21.6	0	0.0	21,457	43.7
			Subtotal	246	0.5	23,005	46.8	25,119	51.1	787	1.6	49,157	100.0
	6/26	184	M	503	0.5	21,257	22.8	12,147	13.0	503	0.5	34,410	36.9
	(6/26)		F	0	0.0	27,312	29.3	31,392	33.7	0	0.0	58,704	63.0
			Subtotal	503	0.5	48,569	52.1	43,539	46.7	503	0.5	93,152	100.0
	6/29	189	M	1,337	1.6	25,659	30.7	20,310	24.3	2,675	3.2	39,216	46.9
	(6/29)		F	0	0.0	18,555	22.2	14,125	16.9	919	1.1	44,348	53.1
			Subtotal	1,337	1.6	44,214	52.9	34,435	41.2	3,594	4.3	83,580	100.0
	7/3	195	M	2,772	3.1	28,438	31.8	19,227	21.5	447	0.5	50,884	56.9
	(7/3)		F	447	0.5	23,877	26.7	14,219	15.9	0	0.0	38,543	43.1
			Subtotal	3,219	3.6	52,315	58.5	33,446	37.4	447	0.5	89,427	100.0
	7/6	178	M	1,373	1.7	23,277	28.7	10,042	12.4	487	0.6	35,180	43.3
	(7/6)		F	2,275	2.8	30,126	37.1	13,698	16.9	0	0.0	46,099	56.7
			Subtotal	3,648	4.5	53,403	65.7	23,740	29.2	487	0.6	81,246	100.0
	7/10	179	M	1,917	2.2	21,238	24.6	8,205	9.5	1,451	1.7	32,811	38.0
	(7/10)		F	2,418	2.8	34,271	39.7	16,894	19.6	0	0.0	53,583	62.0
			Subtotal	4,336	5.0	55,509	64.3	25,099	29.1	1,451	1.7	86,368	100.0
	7/14	180	M	1,682	3.9	10,784	25.0	5,750	13.3	475	1.1	18,691	43.3
	(7/14)		F	1,436	3.3	14,373	33.3	8,627	20.0	0	0.0	24,437	56.7
			Subtotal	3,119	7.2	25,157	58.3	14,378	33.3	475	1.1	43,137	100.0
	7/18	177	M	1,678	4.5	10,532	28.2	4,434	11.9	0	0.0	16,644	44.6
	(7/18)		F	634	1.7	13,060	35.0	6,948	18.6	0	0.0	20,642	55.4
			Subtotal	2,312	6.2	23,592	63.3	11,382	30.5	0	0.0	37,294	100.0
	7/21	185	M	907	4.3	7,620	36.2	1,818	8.6	231	1.1	10,576	50.3
	(7/21)		F	907	4.3	6,141	29.2	3,413	16.2	0	0.0	10,461	49.7
			Subtotal	1,814	8.6	13,762	65.4	5,230	24.9	231	1.1	21,039	100.0
	8/4	72	M	60	5.6	149	13.9	194	18.1	0	0.0	403	37.6
	(8/4)		F	74	6.9	372	34.7	208	19.4	15	1.4	669	62.4
			Subtotal	134	12.5	521	48.6	402	37.5	15	1.4	1,072	100.0
	8/8,12	82	M	305	11.0	441	15.9	306	11.0	33	1.2	1,084	39.0
	(8/8,12,16,19,22,26		F	169	6.1	814	29.3	678	24.4	33	1.2	1,695	61.0
	29,9/1)		Subtotal	474	17.1	1,255	45.2	983	35.4	66	2.4	2,778	100.0
	Season	1,811	M	12,535	2.1	161,807	27.5	96,934	16.5	7,089	1.2	267,600	45.5
			F	8,607	1.5	179,495	30.5	120,819	20.5	968	0.2	320,637	54.5
			Total	21,142	3.6	341,302	58.0	217,753	37.0	8,056	1.4	588,250	100.0
1996	6/17	190	M	0	0.0	4,685	40.5	2,616	22.6	304	2.6	7,605	65.8
	(6/17)		F	0	0.0	1,278	11.1	2,434	21.1	243	2.1	3,955	34.2
			Subtotal	0	0.0	5,963	51.6	5,050	43.7	548	4.7	11,560	100.0

Appendix D.1. Age and sex of chum salmon from the District 1 commercial fishery. [ab] (page 14 of 18)

Year	Sample Dates	Sample Size	Sex	Age Class 0.2 Catch	0.2 %	0.3 Catch	0.3 %	0.4 Catch	0.4 %	0.5 Catch	0.5 %	Total Catch	Total %
	6/20	188	M	146	0.5	10,218	37.2	5,985	21.8	584	2.1	16,932	61.7
	(6/20)		F	0	0.0	5,547	20.2	4,817	17.6	146	0.5	10,510	38.3
			Subtotal	146	0.5	15,765	57.4	10,802	39.4	730	2.7	27,442	100.0
	6/24	189	M	0	0.0	7,611	39.2	2,777	14.3	103	0.5	10,490	54.0
	(6/24)		F	0	0.0	5,862	30.2	2,777	14.3	309	1.6	8,948	46.0
			Subtotal	0	0.0	13,473	69.3	5,554	28.6	411	2.1	19,438	100.0
	7/2	193	M	0	0.0	6,177	29.5	1,626	7.8	325	1.6	8,128	38.9
	(7/2)		F	0	0.0	8,886	42.5	3,576	17.1	325	1.6	12,787	61.1
			Subtotal	0	0.0	15,063	72.0	5,202	24.9	650	3.1	20,915	100.0
	7/5	196	M	0	0.0	5,764	32.7	2,341	13.3	450	2.6	8,555	48.5
	(7/5)		F	0	0.0	6,394	36.2	2,612	14.8	90	0.5	9,096	51.5
			Subtotal	0	0.0	12,158	68.9	4,953	28.1	540	3.1	17,651	100.0
	7/8	193	M	0	0.0	6,235	33.2	974	5.2	195	1.0	7,404	39.4
	(7/8)		F	97	0.5	8,865	47.2	2,046	10.9	390	2.1	11,397	60.6
			Subtotal	97	0.5	15,099	80.3	3,020	16.1	584	3.1	18,801	100.0
	7/12	199	M	0	0.0	7,714	29.1	1,995	7.5	266	1.0	9,975	37.7
	(7/12)		F	0	0.0	12,502	47.2	3,591	13.6	399	1.5	16,493	62.3
			Subtotal	0	0.0	20,217	76.4	5,586	21.1	665	2.5	26,468	100.0
	7/19	198	M	0	0.0	9,672	33.8	2,598	9.1	0	0.0	12,270	42.9
	(7/16,19)		F	144	0.5	13,714	48.0	2,310	8.1	144	0.5	16,312	57.1
			Subtotal	144	0.5	23,385	81.8	4,908	17.2	144	0.5	28,582	100.0
	7/22	196	M	0	0.0	5,846	40.3	814	5.6	74	0.5	6,734	46.4
	(7/22)		F	148	1.0	6,142	42.3	1,480	10.2	0	0.0	7,770	53.6
			Subtotal	148	1.0	11,988	82.7	2,294	15.8	74	0.5	14,504	100.0
	7/25	184	M	0	0.0	3,041	33.7	539	6.0	0	0.0	3,580	39.7
	(7/25)		F	49	0.5	4,512	50.0	687	7.6	147	1.6	5,395	59.8
			Subtotal	49	0.5	7,602	84.2	1,226	13.6	147	1.6	9,024	100.0
	7/29	191	M	0	0.0	1,153	21.5	112	2.1	0	0.0	1,265	23.6
	(7/29,31)		F	0	0.0	3,570	66.5	478	8.9	56	1.0	4,104	76.4
			Subtotal	0	0.0	4,722	88.0	590	11.0	56	1.0	5,369	100.0
	8/3	52	M	0	0.0	827	26.9	177	5.8	0	0.0	1,005	32.7
	(8/3,7,10,13,16,		F	0	0.0	1,714	55.8	355	11.5	0	0.0	2,068	67.3
	20,23,26)		Subtotal	0	0.0	2,541	82.7	532	17.3	0	0.0	3,073	100.0
	Season	2,169	M	146	0.1	68,941	34.0	22,556	11.1	2,301	1.1	93,944	46.3
			F	439	0.2	78,985	38.9	27,161	13.4	2,249	1.1	108,834	53.7
			Total	585	0.3	147,975	73.0	49,716	24.5	4,551	2.2	202,827	100.0
1997 [c]	6/23	197	M	133	1.0	3,721	28.4	3,256	24.9	199	1.5	7,309	55.8
	(6/23)		F	0	0.0	2,326	17.8	3,389	25.9	67	0.5	5,781	44.2
			Subtotal	133	1.0	6,047	46.2	6,645	50.8	266	2.0	13,090	100.0
	7/31	115	M	71	3.5	591	28.7	143	7.0	18	0.9	824	40.0
	(7/31)		F	54	2.6	967	47.0	215	10.4	0	0.0	1,236	60.0
			Subtotal	125	6.1	1,558	75.7	358	17.4	18	0.9	2,060	100.0
	8/6	43	M	86	4.7	560	30.2	43	2.3	86	4.7	776	41.9
	(8/6,12,18)		F	216	11.6	690	37.2	129	7.0	43	2.3	1,077	58.1
			Subtotal	302	16.3	1,250	67.4	172	9.3	129	7.0	1,853	100.0

Appendix D.1. Age and sex of chum salmon from the District 1 commercial fishery. [ab] (page 15 of 18)

Year	Sample Dates	Sample Size	Sex	Age Class 0.2 Catch	0.2 %	0.3 Catch	0.3 %	0.4 Catch	0.4 %	0.5 Catch	0.5 %	Total Catch	Total %
	Season	355	M	291	1.7	4,872	28.7	3,442	20.2	303	1.8	8,909	52.4
			F	269	1.6	3,983	23.4	3,733	22.0	110	0.6	8,094	47.6
			Total	560	3.3	8,855	52.1	7,175	42.2	413	2.4	17,003	100.0
1998 [c]	6/24	191	M	0	0.0	14,448	44.5	2,380	7.3	170	0.5	16,998	52.4
	(6/24)		F	0	0.0	12,919	39.8	2,550	7.9	0	0.0	15,469	47.6
			Subtotal	0	0.0	27,367	84.3	4,930	15.2	170	0.5	32,467	100.0
	6/29	177	M	377	0.6	24,150	36.1	4,528	6.8	0	0.0	29,055	43.5
	(6/29)		F	0	0.0	32,451	48.6	5,283	7.9	0	0.0	37,734	56.5
			Subtotal	377	0.6	56,601	84.7	9,811	14.7	0	0.0	66,789	100.0
	7/3	196	M	263	0.5	21,009	40.8	2,363	4.6	0	0.0	23,635	45.9
	(7/3)		F	262	0.5	23,897	46.4	3,677	7.1	0	0.0	27,836	54.1
			Subtotal	525	1.0	44,906	87.2	6,040	11.7	0	0.0	51,471	100.0
	7/11	189	M	0	0.0	7,935	27.0	467	1.6	0	0.0	8,402	28.6
	(7/11)		F	156	0.5	19,138	65.1	1,711	5.8	0	0.0	21,005	71.4
			Subtotal	156	0.5	27,073	92.1	2,178	7.4	0	0.0	29,407	100.0
	7/22	199	M	158	1.0	5,824	37.2	472	3.0	0	0.0	6,454	41.2
	(7/22)		F	157	1.0	8,658	55.3	394	2.5	0	0.0	9,209	58.8
			Subtotal	315	2.0	14,482	92.5	866	5.5	0	0.0	15,663	100.0
	7/27	218	M	69	0.9	2,752	36.7	69	0.9	0	0.0	2,890	38.5
	(7/27)		F	172	2.3	4,129	55.0	275	3.7	34	0.5	4,610	61.5
			Subtotal	241	3.2	6,881	91.7	344	4.6	34	0.5	7,500	100.0
	8/1	208	M	13	0.5	965	34.6	54	1.9	0	0.0	1,032	37.0
	(8/1)		F	67	2.4	1,474	52.9	214	7.7	0	0.0	1,755	63.0
			Subtotal	80	2.9	2,439	87.5	268	9.6	0	0.0	2,787	100.0
	8/6,11	55	M	29	1.8	616	38.2	29	1.8	0	0.0	675	41.8
	(8/6,11,17,22,29)		F	0	0.0	851	52.7	88	5.5	0	0.0	939	58.2
			Subtotal	29	1.8	1,467	90.9	117	7.3	0	0.0	1,614	100.0
	Season	1,433	M	909	0.4	77,700	37.4	10,362	5.0	170	0.1	89,141	42.9
			F	815	0.4	103,516	49.8	14,192	6.8	34	0.0	118,557	57.1
			Total	1,724	0.8	181,216	87.2	24,554	11.8	204	0.1	207,698	100.0
1999 [c]	6/30	209	M	0	0.0	6,734	29.7	4,453	19.6	0	0.0	11,187	49.3
	(6/30)		F	0	0.0	6,408	28.2	5,105	22.5	0	0.0	11,513	50.7
			Subtotal	0	0.0	13,142	57.9	9,558	42.1	0	0.0	22,700	100.0
	8/7	59	M	0	0.0	104	33.9	41	13.6	0	0.0	145	47.5
	(8/7)		F	5	1.7	109	35.6	47	15.2	0	0.0	161	52.5
			Subtotal	5	1.7	213	69.5	88	28.8	0	0.0	306	100.0
	Season	268	M	0	0.0	6,838	29.7	4,495	19.5	0	0.0	11,332	49.3
			F	5	0.0	6,517	28.3	5,151	22.4	0	0.0	11,674	50.7
			Total	5	0.0	13,355	58.0	9,646	41.9	0	0.0	23,006	100.0
2000 [c]	7/5	196	M	169	1.5	3,882	35.2	1,181	10.7	57	0.5	5,288	48.0
	(7/5)		F	56	0.5	4,219	38.3	1,407	12.8	56	0.5	5,738	52.0
			Subtotal	225	2.0	8,101	73.5	2,588	23.5	113	1.0	11,026	100.0

Appendix D.1. Age and sex of chum salmon from the District 1 commercial fishery. [ab] (page 16 of 18)

Year	Sample Dates	Sample Size	Sex	Age Class 0.2 Catch	0.2 %	0.3 Catch	0.3 %	0.4 Catch	0.4 %	0.5 Catch	0.5 %	Total Catch	Total %
	8/1	57	M	29	5.3	143	26.3	19	3.5	0	0.0	191	35.1
	(8/1,4-5,8-9,12,14		F	28	5.2	267	49.1	57	10.5	0	0.0	353	64.9
	17-18,21-22,25)		Subtotal	57	10.5	410	75.4	76	14.0	0	0.0	544	100.0
	Season	253	M	197	1.7	4,025	34.8	1,200	10.4	57	0.5	5,479	47.4
			F	85	0.7	4,486	38.8	1,464	12.6	56	0.5	6,091	52.6
			Total	282	2.4	8,511	73.6	2,664	23.0	113	1.0	11,570	100.0
2001 [c]	8/3	118	M		2.5		22.9		4.3		0.0		29.7
	(8/3, 6)		F		0.9		59.3		9.3		0.8		70.3
			Subtotal		3.4		82.2		13.6		0.8	448	100.0
	(8/8,11,13,15,	0	M										
	17,20,22,25)		F										
			Subtotal									824	
	Season[d]	118	M										
			F										
			Total									1,272	
2002 [c]	8/2	93	M		7.5		30.1		2.2		0.0		39.8
	(8/2,5)		F		15.1		43.0		2.1		0.0		60.2
			Subtotal		22.6		73.1		4.3		0.0	707	100.0
	8/8,9,12,13	0	M										
			F										
			Subtotal									1,193	
	Season [d]		M										
			F										
			Total									1,900	
2003 [c]	7/31	118	M		0.0		44.9		4.2		0.0		49.2
	(7/31-9/3)		F		0.8		47.5		2.6		0.0		50.8
	Season [d]		Subtotal		0.8		92.4		6.8		0.0	118	100.0
2004 [c]	6/30	177	M	589	11.3	1,355	26.0	884	16.9	0	0.0	2,828	54.2
	(6/30, 7/2)		F	236	4.5	1,208	23.2	942	18.1	0	0.0	2,386	45.8
			Subtotal	825	15.8	2,563	49.2	1,826	35.0	0	0.0	5,214	100.0
	7/6	200	M	1,018	14.5	1,861	26.5	983	14.0	0	0.0	3,862	55.0
	(7/6, 7/7)		F	422	6.0	1,439	20.5	1,299	18.5	0	0.0	3,160	45.0
			Subtotal	1,440	20.5	3,300	47.0	2,282	32.5	0	0.0	7,022	100.0
	7/28	178	M	1,210	32.0	467	12.4	319	8.4	0	0.0	1,996	52.8
	(7/28, 30, 8/2)		F	765	20.2	637	16.8	382	10.1	0	0.0	1,784	47.2
			Subtotal	1,975	52.2	1,104	29.2	701	18.5	0	0.0	3,780	100.0
	8/3	182	M	970	22.0	728	16.5	388	8.8	0	0.0	2,085	47.3
	(8/3,5,6,9,10,12,		F	1,067	24.2	921	20.9	339	7.7	0	0.0	2,328	52.7
	13,16,17,19,20,23,		Subtotal	2,037	46.2	1,649	37.4	727	16.5	0	0.0	4,413	100.0
	24,27,30,9/2,4,6,8)												
	Season	737	M	3,788	18.5	4,410	21.6	2,573	12.6	0	0.0	10,771	52.7
			F	2,488	12.2	4,206	20.6	2,964	14.5	0	0.0	9,658	47.3
			Total	6,276	30.7	8,616	42.2	5,537	27.1	0	0.0	20,429	100.0

Appendix D.1. Age and sex of chum salmon from the District 1 commercial fishery. [ab] (page 17 of 18)

Year	Sample Dates	Sample Size	Sex	Age Class 0.2 Catch	0.2 %	0.3 Catch	0.3 %	0.4 Catch	0.4 %	0.5 Catch	0.5 %	Total Catch	Total %
2005 [c]	6/24	184	M	0	0.0	6,850	50.6	810	6.0	0	0.0	7,660	56.5
	(6/24)		F	74	0.5	5,304	39.1	516	3.8	0	0.0	5,893	43.5
			Subtotal	74	0.5	12,154	89.7	1,326	9.8	0	0.0	13,553	100.0
	6/28	188	M	0	0.0	4,131	39.4	726	6.9	0	0.0	4,857	46.3
	(6/28, 30)		F	0	0.0	5,248	50.0	335	3.2	56	0.5	5,638	53.7
			Subtotal	0	0.0	9,379	89.4	1,061	10.1	56	0.5	10,495	100.0
	7/1	209	M	0	0.0	13,083	46.9	534	1.9	0	0.0	13,617	48.8
	(7/1)		F	267	1.0	13,350	47.8	667	2.4	0	0.0	14,284	51.2
			Subtotal	267	1.0	26,433	94.7	1,201	4.3	0	0.0	27,901	100.0
	8/4	198	M	173	1.0	5,643	32.9	261	1.5	0	0.0	6,077	35.4
	(8/2,4,5,8,9,11,		F	87	0.5	10,766	62.6	260	1.5	0	0.0	11,113	64.6
	15,22,25,29,9/1)		Subtotal	260	1.5	16,409	95.5	521	3.0	0	0.0	17,190	100.0
	Season	779	M	174	0.3	29,707	43.0	2,330	3.3	0	0.0	32,211	46.6
			F	427	0.6	34,666	50.1	1,779	2.6	56	0.1	36,928	53.4
			Total	601	0.9	64,373	93.1	4,109	5.9	56	0.1	69,139	100.0
2006 [c]	6/26	189	M	0	0.0	9,716	27.0	11,050	30.7	0	0.0	20,765	57.7
	(6/26-28)		F	0	0.0	7,239	20.1	8,001	22.2	0	0.0	15,241	42.3
			Subtotal	0	0.0	16,955	47.1	19,051	52.9	0	0.0	36,006	100.0
	8/1	203	M	40	0.5	1,907	23.7	1,112	13.8	0	0.0	3,059	37.9
	(8/1,3,4,7,8,10,11,		F	119	1.5	3,138	38.9	1,748	21.7	0	0.0	5,005	62.1
	14,15,17,18,21,22,		Subtotal	159	2.0	5,045	62.6	2,860	35.5	0	0.0	8,064	100.0
	24,25,28,30)												
	Season	392	M	40	0.1	11,623	26.4	12,162	27.6	0	0.0	23,824	54.1
			F	119	0.3	10,377	23.5	9,749	22.1	0	0.0	20,246	45.9
			Total	159	0.4	22,000	49.9	21,911	49.7	0	0.0	44,070	100.0
2007 [c]	8/1	201	M		0.0		35.3		9.5		1.0		45.8
	(8/1-24)		F		0.5		40.3		11.9		1.5		54.2
	Season		Total		0.5		75.6		21.4		2.5	10,763	100.0
2008 [c]	6/20	228	M	0	0.0	1,585	12.3	6,452	50.0	453	3.5	8,489	65.8
	(6/20)		F	0	0.0	679	5.2	3,452	26.8	283	2.2	4,414	34.2
			Subtotal	0	0.0	2,264	17.5	9,904	76.8	736	5.7	12,903	100.0
	6/24	223	M	0	0.0	1,000	15.3	3,295	50.2	88	1.3	4,383	66.8
	(6/24)		F	0	0.0	383	5.8	1,794	27.4	0	0.0	2,177	33.2
			Subtotal	0	0.0	1,383	21.1	5,089	77.6	88	1.3	6,560	100.0
	6/27	204	M	0	0.0	727	9.3	2,601	33.3	191	2.5	3,519	45.1
	(6/27)		F	0	0.0	574	7.4	3,367	43.2	345	4.4	4,285	54.9
			Subtotal	0	0.0	1,301	16.7	5,968	76.5	536	6.9	7,804	100.0
	8/4	210	M	47	1.5	495	15.2	727	22.4	62	1.9	1,331	41.0
	(7/12,19,22,30,8/4,6,8,		F	46	1.4	866	26.7	990	30.5	15	0.5	1,918	59.0
	11,13,15,118,20,22,25)		Subtotal	93	2.9	1,361	41.9	1,717	52.9	77	2.4	3,249	100.0
	Season	865	M	47	0.2	3,806	12.5	13,075	42.8	794	2.6	17,722	58.1
			F	46	0.1	2,502	8.2	9,603	31.5	643	2.1	12,794	41.9
			Total	93	0.3	6,308	20.7	22,678	74.3	1,437	4.7	30,516	100.0

Appendix D.1. Age and sex of chum salmon from the District 1 commercial fishery. [ab] (page 18 of 18)

Year	Sample Dates	Sample Size	Sex	Age Class 0.2 Catch	0.2 %	0.3 Catch	0.3 %	0.4 Catch	0.4 %	0.5 Catch	0.5 %	Total Catch	Total %
2009 [c]	6/23	260	M	0	0.0	6,085	25.8	7,085	30.0	363	1.5	13,533	57.3
	(6/23,26)		F	91	0.4	5,541	23.4	4,178	17.7	273	1.2	10,082	42.7
			Subtotal	91	0.4	11,626	49.2	11,263	47.7	636	2.7	23,615	100.0
	7/1	187	M	100	0.5	8,301	44.4	4,001	21.4	500	2.7	12,902	69.0
	(7/1)		F	0	0.0	4,301	23.0	1,500	8.0	0	0.0	5,801	31.0
			Subtotal	100	0.5	12,602	67.4	5,501	29.4	500	2.7	18,703	100.0
	7/11	259	M	174	2.3	2,606	34.8	869	11.6	29	0.4	3,678	49.0
	(7/11)		F	87	1.2	2,896	38.6	782	10.4	58	0.8	3,822	51.0
			Subtotal	261	3.5	5,502	73.4	1,651	22.0	87	1.2	7,500	100.0
	7/14	220	M	62	1.4	2,162	47.7	515	11.4	62	1.4	2,800	61.8
	(7/14)		F	20	0.4	1,236	27.3	412	9.1	62	1.3	1,730	38.2
			Subtotal	82	1.8	3,398	75.0	927	20.5	124	2.7	4,530	100.0
	7/18	273	M	411	1.9	8,796	39.2	1,727	7.7	247	1.1	11,180	49.8
	(7/18,28,8/1,4,6,		F	658	2.9	9,207	41.0	1,315	5.9	82	0.4	11,262	50.2
	8,11,13,16,18,22)		Subtotal	1,069	4.8	18,003	80.2	3,042	13.6	329	1.5	22,442	100.0
	Season	1,199	M	746	1.0	27,951	36.4	14,195	18.5	1,201	1.6	44,093	57.4
			F	856	1.1	23,179	30.2	8,187	10.6	474	0.6	32,697	42.6
			Total	1,602	2.1	51,130	66.6	22,382	29.1	1,675	2.2	76,790	100.0
	Grand	31,442	M	63,183	0.7	2,541,598	29.3	1,438,027	16.6	56,460	0.6	4,088,043	47.1
	Total [e]		F	67,741	0.8	3,083,996	35.5	1,406,810	16.2	30,385	0.3	4,599,924	52.9
			Total	130,924	1.5	5,625,107	64.7	2,845,161	32.7	86,844	1.0	8,687,957	100.0

[a] The number of fish in each stratum age and sex category are derived from the sample percentages; discrepancies in sums are attributed to rounding errors.

[b] The number of fish in "Season" summaries are the strata sums; "Season" percentages are derived from the sums.

[c] Sex of all fish was confirmed by visual inspection of gonads.

[d] Sampling dates do not meet criteria for estimating commercial harvest percentages for some or all of the strata; "Season" is not included in the "Grand total".

[e] The number of fish in the "Grand total" are the sum of the "Season" totals; percentages are derived from those sums.

[f] Fishing periods were unrestcited mesh size; no chum salmon were sampled for ASL composition.

Appendix D.2. Mean length (mm) of chum salmon from the District 1 commercial fishery. (page 1 of 52)

Year	Sample Dates (Stratum Dates)	Sex		Age Class 0.2	0.3	0.4	0.5
1972	6/20,23,27 (6/15-16,19-20, 22-23,26-27)	M	Mean Length		685	651	
			Std. Error		5	19	
			Range		680- 689	530- 995	
			Sample Size	0	2	22	0
		F	Mean Length			590	
			Std. Error			-	
			Range			590- 590	
			Sample Size	0	0	1	0
	6/30 (6/29-30)	M	Mean Length		589	617	
			Std. Error		7	9	
			Range		559- 645	543- 810	
			Sample Size	0	15	31	0
		F	Mean Length	565	565	595	
			Std. Error	23	5	8	
			Range	542- 588	539- 606	539- 884	
			Sample Size	2	13	39	0
	7/4 (7/3-4	M	Mean Length	545	582	603	
			Std. Error	-	5	6	
			Range	545- 545	554- 623	555- 664	
			Sample Size	1	14	23	0
		F	Mean Length		567	577	
			Std. Error		3	4	
			Range		525- 600	523- 630	
			Sample Size	0	28	36	0
	7/7 (7/6-7)	M	Mean Length		592	598	
			Std. Error		7	6	
			Range		511- 672	506- 673	
			Sample Size	0	23	33	0
		F	Mean Length	564	561	575	
			Std. Error	6	7	3	
			Range	558- 569	457- 610	540- 620	
			Sample Size	2	19	33	0
	7/11 (7/10-11,13)	M	Mean Length	556	580	607	
			Std. Error	15	7	4	
			Range	514- 595	522- 620	562- 681	
			Sample Size	5	20	35	0
		F	Mean Length	533	560	580	
			Std. Error	32	3	4	
			Range	493- 597	524- 593	534- 637	
			Sample Size	3	38	34	0

Appendix D.2. Mean length (mm) of chum salmon from the District 1 commercial fishery. (page 2 of 52)

Year	Sample Dates (Stratum Dates)	Sex		Age Class 0.2	0.3	0.4	0.5
	7/14,8/9-10 (7/14,8/3-4,7-11, 14-18,21-22)	M	Mean Length	577	565	584	
			Std. Error	24	10	6	
			Range	553- 600	500- 618	552- 615	
			Sample Size	2	13	12	0
		F	Mean Length	535	570	597	
			Std. Error	2	8	6	
			Range	530- 542	450- 615	564- 639	
			Sample Size	4	24	14	0
	Season	M	Mean Length	558	586	607	
			Range	514- 600	500- 689	506- 995	
			Sample Size	8	87	156	0
		F	Mean Length	547	564	582	
			Range	493- 597	450- 615	523- 884	
			Sample Size	11	122	157	0
1973	6/26 (6/6-8,11,12,14, 15,18,19,25,26)	M	Mean Length		597	615	664
			Std. Error		5	7	26
			Range		552- 680	560- 642	638- 690
			Sample Size	0	30	14	2
		F	Mean Length		565	589	600
			Std. Error		5	5	-
			Range		507- 624	547- 646	600- 600
			Sample Size	0	34	25	1
	6/29 (6/28-29)	M	Mean Length		585	599	606
			Std. Error		4	5	13
			Range		543- 646	544- 651	591- 632
			Sample Size	0	42	28	3
		F	Mean Length		559	589	626
			Std. Error		5	7	-
			Range		521- 621	555- 623	626- 626
			Sample Size	0	22	11	1
	7/3 (7/2-3)	M	Mean Length		589	597	606
			Std. Error		6	8	-
			Range		535- 659	554- 673	606- 606
			Sample Size	0	32	18	1
		F	Mean Length		575	592	615
			Std. Error		3	7	-
			Range		535- 613	546- 653	615- 615
			Sample Size	0	28	18	1

Appendix D.2. Mean length (mm) of chum salmon from the District 1 commercial fishery. (page 3 of 52)

Year	Sample Dates (Stratum Dates)	Sex		Age Class 0.2	0.3	0.4	0.5
	7/6 (7/5-6)	M	Mean Length	514	589	592	605
			Std. Error	-	5	7	-
			Range	514- 514	534- 642	540- 638	605- 605
			Sample Size	1	24	15	1
		F	Mean Length	516	557	567	560
			Std. Error	-	4	5	-
			Range	516- 516	504- 595	535- 617	560- 560
			Sample Size	1	47	20	1
	7/10 (7/9-10,8/2,3,6-10, 13-16,20,21,23)	M	Mean Length		590	619	621
			Std. Error		6	14	7
			Range		546- 671	567- 965	604- 637
			Sample Size	0	32	27	4
		F	Mean Length		565	595	
			Std. Error		4	6	
			Range		523- 616	562- 633	
			Sample Size	0	34	16	0
	Season	M	Mean Length	514	589	603	618
			Range	514- 514	534- 680	540- 965	591- 690
			Sample Size	1	160	102	11
		F	Mean Length	516	563	585	603
			Range	516- 516	504- 624	535- 653	560- 626
			Sample Size	1	165	90	4
1974	6/27 (6/10-11,13, 14,17-18,27)	M	Mean Length		524	572	607
			Std. Error		37	3	12
			Range		487- 561	562- 587	593- 632
			Sample Size	0	2	7	3
		F	Mean Length		569	564	
			Std. Error		-	10	
			Range		569- 569	525- 610	
			Sample Size	0	1	8	0
	7/2 (7/1-2)	M	Mean Length		535	566	629
			Std. Error		4	9	-
			Range		518- 547	515- 588	629- 629
			Sample Size	0	7	8	1
		F	Mean Length		528	570	
			Std. Error		11	1	
			Range		492- 557	567- 573	
			Sample Size	0	6	4	0

Appendix D.2. Mean length (mm) of chum salmon from the District 1 commercial fishery. (page 4 of 52)

Year	Sample Dates (Stratum Dates)	Sex		Age Class 0.2	0.3	0.4	0.5
	7/5 (7/4-6)	M	Mean Length		526	589	
			Std. Error		13	11	
			Range		480- 573	545- 647	
			Sample Size	0	6	8	0
		F	Mean Length		530	578	
			Std. Error		7	19	
			Range		503- 557	499- 694	
			Sample Size	0	6	8	0
	7/9 (7/8-9)	M	Mean Length	517	549	579	655
			Std. Error	-	11	16	-
			Range	517- 517	520- 573	550- 603	655- 655
			Sample Size	1	6	3	1
		F	Mean Length		545	573	
			Std. Error		6	14	
			Range		524- 577	530- 620	
			Sample Size	0	8	6	0
	7/18 (7/18)	M	Mean Length		537	559	600
			Std. Error		5	52	-
			Range		495- 572	507- 610	600- 600
			Sample Size	0	19	2	1
		F	Mean Length	511	535	568	
			Std. Error	-	5	6	
			Range	511- 511	478- 578	545- 575	
			Sample Size	1	28	5	0
	8/8 (8/1-2,5-8,12-15,19, 20-22,27-28,9/2)	M	Mean Length		502		
			Std. Error		.		
			Range		502- 502		
			Sample Size	0	1	0	0
		F	Mean Length		527		
			Std. Error		9		
			Range		508- 567		
			Sample Size	0	6	0	0
	Season	M	Mean Length	517	537	574	625
			Range	517- 517	480- 573	507- 647	593- 655
			Sample Size	1	41	28	6
		F	Mean Length	511	537	571	
			Range	511- 511	478- 578	499- 694	
			Sample Size	1	55	31	0

Appendix D.2. Mean length (mm) of chum salmon from the District 1 commercial fishery. (page 5 of 52)

Year	Sample Dates (Stratum Dates)	Sex		Age Class 0.2	0.3	0.4	0.5
1975	6/20,30 (6/13-7/1)	M	Mean Length		578	593	
			Std. Error		4	6	
			Range		508- 690	560- 640	
			Sample Size	0	64	14	0
		F	Mean Length		555	561	
			Std. Error		3	8	
			Range		505- 628	535- 588	
			Sample Size	0	78	6	0
	7/3 (7/3-4)	M	Mean Length		597	635	
			Std. Error		4	4	
			Range		535- 648	622- 650	
			Sample Size	0	45	7	0
		F	Mean Length	564	582		583
			Std. Error	1	4		8
			Range	562- 565	535- 662		575- 590
			Sample Size	2	42	0	2
	7/7 (7/7)	M	Mean Length		583	594	
			Std. Error		5	5	
			Range		537- 630	555- 620	
			Sample Size	0	21	16	0
		F	Mean Length		563	573	
			Std. Error		7	9	
			Range		520- 625	535- 610	
			Sample Size	0	18	8	0
	7/10 (7/10-11)	M	Mean Length		590	603	
			Std. Error		4	-	
			Range		550- 660	603- 603	
			Sample Size	0	34	1	0
		F	Mean Length	540	560		
			Std. Error	-	3		
			Range	540- 540	515- 610		
			Sample Size	1	53	0	0

Appendix D.2. Mean length (mm) of chum salmon from the District 1 commercial fishery. (page 6 of 52)

Year	Sample Dates (Stratum Dates)	Sex		Age Class 0.2	0.3	0.4	0.5
	7/14 (7/13-14)	M	Mean Length	530	587	612	
			Std. Error	-	6	4	
			Range	530- 530	560- 650	608- 615	
			Sample Size	1	15	2	0
		F	Mean Length	520	569	585	
			Std. Error	-	3	5	
			Range	520- 520	520- 612	580- 590	
			Sample Size	1	45	2	0
	8/1 (8/1,4)	M	Mean Length		564		
			Std. Error		10		
			Range		508- 610		
			Sample Size	0	11	0	0
		F	Mean Length	519	568	630	
			Std. Error	-	5	-	
			Range	519- 519	528- 625	630- 630	
			Sample Size	1	34	1	0
	8/5,11 (8/5-27)	M	Mean Length		515		
			Std. Error		-		
			Range		515- 515		
			Sample Size	0	1	0	0
		F	Mean Length		596		
			Std. Error		-		
			Range		596- 596		
			Sample Size	0	1	0	0
	Season	M	Mean Length	530	583	601	
			Range	530- 530	508- 690	555- 650	
			Sample Size	1	191	40	0
		F	Mean Length	545	566	573	583
			Range	519- 565	505- 662	535- 630	575- 590
			Sample Size	5	271	17	2
1976	Season	M					
			Fish ticket data base and scale card dates do not match. Numbers in data base are smaller than the number of fish sampled on that day.				
		F					

Appendix D.2. Mean length (mm) of chum salmon from the District 1 commercial fishery. (page 7 of 52)

Year	Sample Dates (Stratum Dates)	Sex		Age Class 0.2	0.3	0.4	0.5
1977	6/15,20 [f] (6/15,20)	M	Mean Length		617	660	
			Std. Error		10	12	
			Range		545- 700	594- 720	
			Sample Size	0	20	11	0
		F	Mean Length		591	628	
			Std. Error		20	13	
			Range		545- 697	615- 640	
			Sample Size	0	7	2	0
	6/27 (6/27)	M	Mean Length	541	582	566	
			Std. Error	-	3	7	
			Range	541- 541	538- 626	552- 581	
			Sample Size	1	42	4	0
		F	Mean Length		553	571	
			Std. Error		2	7	
			Range		516- 593	541- 596	
			Sample Size	0	53	10	0
	6/30 (6/30)	M	Mean Length	556	607	635	
			Std. Error	1	4	9	
			Range	555- 556	552- 663	604- 659	
			Sample Size	2	54	5	0
		F	Mean Length	586	576	615	
			Std. Error	-	3	52	
			Range	586- 586	509- 616	563- 667	
			Sample Size	1	53	2	0
	7/4 (7/4)	M	Mean Length	562	597	594	
			Std. Error	12	6	15	
			Range	530- 585	520- 670	565- 620	
			Sample Size	5	39	4	0
		F	Mean Length	549	583	592	620
			Std. Error	7	4	8	-
			Range	520- 570	530- 635	570- 615	620- 620
			Sample Size	6	54	5	1

Appendix D.2. Mean length (mm) of chum salmon from the District 1 commercial fishery. (page 8 of 52)

Year	Sample Dates (Stratum Dates)	Sex		Age Class 0.2	0.3	0.4	0.5
	7/7 (7/7)	M	Mean Length	552	603	583	
			Std. Error	7	4	6	
			Range	534- 568	557- 664	575- 594	
			Sample Size	5	40	3	0
		F	Mean Length	558	579	598	
			Std. Error	7	3	8	
			Range	535- 608	544- 627	576- 620	
			Sample Size	10	55	5	0
	7/14 (7/14)	M	Mean Length	553	594		
			Std. Error	4	6		
			Range	523- 575	510- 661		
			Sample Size	10	31	0	0
		F	Mean Length	548	561	593	
			Std. Error	6	3	17	
			Range	510- 583	505- 630	559- 615	
			Sample Size	12	59	3	0
	8/1,9,15 (8/1,2,8-10,15, 16,18,22,25,29)	M	Mean Length	565	600		
			Std. Error	8	11		
			Range	528- 590	544- 666		
			Sample Size	7	12	0	0
		F	Mean Length	541	563		
			Std. Error	5	4		
			Range	488- 579	513- 613		
			Sample Size	19	27	0	0
	Season	M	Mean Length	556	599	606	
			Range	523- 590	510- 700	552- 720	
			Sample Size	30	238	27	0
		F	Mean Length	551	571	588	620
			Range	488- 608	505- 697	541- 667	620- 620
			Sample Size	48	308	27	1
1978	6/9,16 (6/9,14,16)	M	Mean Length	555	623	650	665
			Std. Error	-	15	4	25
			Range	555- 555	550- 680	605- 710	640- 690
			Sample Size	1	9	34	2
		F	Mean Length		590	607	
			Std. Error		-	15	
			Range		590- 590	580- 630	
			Sample Size	0	1	3	0

Appendix D.2. Mean length (mm) of chum salmon from the District 1 commercial fishery. (page 9 of 52)

Year	Sample Dates (Stratum Dates)	Sex		Age Class 0.2	0.3	0.4	0.5
	6/22-23 (6/22-23)	M	Mean Length		583	630	780
			Std. Error		18	6	-
			Range		450- 655	460- 710	780- 780
			Sample Size	0	13	70	1
		F	Mean Length		595	638	
			Std. Error		23	7	
			Range		550- 625	550- 710	
			Sample Size	0	3	27	0
	6/26 (6/26)	M	Mean Length		587	597	
			Std. Error		4	6	
			Range		510- 655	520- 675	
			Sample Size	0	49	33	0
		F	Mean Length		574	600	
			Std. Error		5	8	
			Range		545- 620	550- 650	
			Sample Size	0	22	12	0
	6/29 (6/29)	M	Mean Length	520	571	580	
			Std. Error	20	5	7	
			Range	500- 540	530- 630	520- 610	
			Sample Size	2	38	18	0
		F	Mean Length	535	573	591	
			Std. Error	5	5	7	
			Range	530- 540	535- 640	560- 670	
			Sample Size	2	33	21	0
	7/3 (7/3)	M	Mean Length	560	575	566	
			Std. Error	-	5	6	
			Range	560- 560	500- 670	543- 598	
			Sample Size	1	39	8	0
		F	Mean Length	530	562	571	
			Std. Error	17	3	7	
			Range	490- 574	530- 602	535- 613	
			Sample Size	4	39	12	0

Appendix D.2. Mean length (mm) of chum salmon from the District 1 commercial fishery. (page 10 of 52)

Year	Sample Dates (Stratum Dates)	Sex		Age Class 0.2	0.3	0.4	0.5
	7/6 (7/6)	M	Mean Length	500	579	594	
			Std. Error	-	5	14	
			Range	500- 500	540- 647	500- 640	
			Sample Size	1	27	10	0
		F	Mean Length	547	570	583	
			Std. Error	46	3	7	
			Range	501- 593	511- 636	547- 639	
			Sample Size	2	64	15	0
	7/10 (7/10)	M	Mean Length	510	584	616	
			Std. Error	10	9	10	
			Range	462- 547	550- 628	587- 637	
			Sample Size	8	9	4	0
		F	Mean Length	522	563	580	
			Std. Error	6	3	6	
			Range	470- 556	512- 622	545- 618	
			Sample Size	14	70	11	0
	7/13 (7/13)	M	Mean Length	513	559	602	
			Std. Error	5	7	7	
			Range	501- 523	485- 612	581- 612	
			Sample Size	4	27	4	0
		F	Mean Length	510	561	585	
			Std. Error	5	4	10	
			Range	494- 520	491- 640	549- 637	
			Sample Size	5	57	8	0
	8/1 (8/1,4,8,11,15, 18,22,25,29)	M	Mean Length	529	540	569	
			Std. Error	15	5	62	
			Range	514- 544	508- 572	507- 630	
			Sample Size	2	18	2	0
		F	Mean Length	500	536	590	
			Std. Error	-	6	3	
			Range	500- 500	492- 587	587- 593	
			Sample Size	1	15	2	0
	Season	M	Mean Length	515	578	608	698
			Range	462- 560	450- 680	460- 710	640- 780
			Sample Size	19	229	183	3
		F	Mean Length	525	566	592	
			Range	470- 593	491- 640	535- 710	
			Sample Size	28	304	111	0

Appendix D.2. Mean length (mm) of chum salmon from the District 1 commercial fishery. (page 11 of 52)

Year	Sample Dates (Stratum Dates)	Sex		Age Class 0.2	0.3	0.4	0.5
1980	6/12,18 (6/12,18)	M	Mean Length		576	635	
			Std. Error		6	12	
			Range		534- 643	623- 647	
			Sample Size	0	27	2	0
		F	Mean Length		549		
			Std. Error		9		
			Range		523- 569		
			Sample Size	0	5	0	0
	6/23 (6/23)	M	Mean Length		563	615	
			Std. Error		3	29	
			Range		523- 612	586- 643	
			Sample Size	0	52	2	0
		F	Mean Length	496	551	545	
			Std. Error	-	3	-	
			Range	496- 496	513- 610	545- 545	
			Sample Size	1	55	1	0
	6/26 (6/26)	M	Mean Length		573	648	
			Std. Error		3	6	
			Range		511- 621	642- 653	
			Sample Size	0	47	2	0
		F	Mean Length		553		
			Std. Error		3		
			Range		506- 607		
			Sample Size	0	66	0	0
	7/2 (7/2)	M	Mean Length		562	592	
			Std. Error		3	-	
			Range		530- 599	592- 592	
			Sample Size	0	46	1	0
		F	Mean Length		544		
			Std. Error		2		
			Range		506- 589		
			Sample Size	0	67	0	0

Appendix D.2. Mean length (mm) of chum salmon from the District 1 commercial fishery. (page 12 of 52)

Year	Sample Dates (Stratum Dates)	Sex		Age Class 0.2	0.3	0.4	0.5
	7/9 (7/9)	M	Mean Length		563		
			Std. Error		4		
			Range		520- 626		
			Sample Size	0	42	0	0
		F	Mean Length		543		
			Std. Error		3		
			Range		492- 603		
			Sample Size	0	69	0	0
	8/4,14,18,21,25 (8/4,7,11,14,18, 21,25,28)	M	Mean Length	598	562		
			Std. Error	-	6		
			Range	598- 598	541- 581		
			Sample Size	1	6	0	0
		F	Mean Length	520	550		
			Std. Error	9	8		
			Range	496- 539	516- 580		
			Sample Size	4	11	0	0
	Season	M	Mean Length	598	566	625	
			Range	598- 598	511- 643	586- 653	
			Sample Size	1	220	7	0
		F	Mean Length	509	548	545	
			Range	496- 539	492- 610	545- 545	
			Sample Size	5	273	1	0
1981	6/10,16 (6/10,16)	M	Mean Length		626	648	
			Std. Error		13	3	
			Range		590- 670	588- 727	
			Sample Size	0	5	78	0
		F	Mean Length		568	615	
			Std. Error		-	10	
			Range		568- 568	574- 683	
			Sample Size	0	1	10	0
	6/22 (6/22)	M	Mean Length		580	609	
			Std. Error		8	4	
			Range		545- 617	547- 692	
			Sample Size	0	9	59	0
		F	Mean Length		545	581	
			Std. Error		9	4	
			Range		496- 586	532- 625	
			Sample Size	0	9	36	0

Appendix D.2. Mean length (mm) of chum salmon from the District 1 commercial fishery. (page 13 of 52)

Year	Sample Dates (Stratum Dates)	Sex		Age Class 0.2	0.3	0.4	0.5
	6/25 (6/25-26)	M	Mean Length		592	601	
			Std. Error		7	4	
			Range		544- 638	539- 662	
			Sample Size	0	16	46	0
		F	Mean Length	518	560	569	
			Std. Error	-	7	3	
			Range	518- 518	508- 597	526- 631	
			Sample Size	1	14	41	0
	6/29 (6/29)	M	Mean Length		576	594	654
			Std. Error		6	6	-
			Range		520- 640	542- 661	654- 654
			Sample Size	0	27	27	1
		F	Mean Length		559	574	
			Std. Error		4	4	
			Range		516- 606	525- 620	
			Sample Size	0	35	29	0
	7/2 (7/2)	M	Mean Length		566	602	
			Std. Error		9	8	
			Range		500- 610	532- 660	
			Sample Size	0	16	21	0
		F	Mean Length	530	556	573	
			Std. Error	-	4	4	
			Range	530- 530	518- 634	520- 610	
			Sample Size	1	37	39	0
	7/6 (7/6)	M	Mean Length	557	568	611	
			Std. Error	25	6	8	
			Range	532- 582	508- 604	512- 708	
			Sample Size	2	17	25	0
		F	Mean Length	524	559	582	
			Std. Error	-	4	4	
			Range	524- 524	498- 620	522- 654	
			Sample Size	1	36	30	0

Appendix D.2. Mean length (mm) of chum salmon from the District 1 commercial fishery. (page 14 of 52)

Year	Sample Dates (Stratum Dates)	Sex		Age Class 0.2	0.3	0.4	0.5
	7/9 (7/9)	M	Mean Length	511	569	592	
			Std. Error	8	6	7	
			Range	481- 524	517- 609	530- 652	
			Sample Size	5	23	22	0
		F	Mean Length	531	549	566	
			Std. Error	31	4	4	
			Range	500- 562	500- 582	525- 600	
			Sample Size	2	31	24	0
	8/3,10,13 (8/3,6,10,13,17, 20,24,27,31)	M	Mean Length	522	562	597	
			Std. Error	-	6	11	
			Range	522- 522	510- 602	552- 638	
			Sample Size	1	21	7	0
		F	Mean Length	530	538	547	
			Std. Error	9	4	15	
			Range	506- 550	494- 608	501- 630	
			Sample Size	4	37	9	0
	Season	M	Mean Length	522	576	607	654
			Range	481- 582	500- 670	512- 727	654- 654
			Sample Size	8	134	285	1
		F	Mean Length	527	555	574	
			Range	500- 562	494- 634	501- 683	
			Sample Size	9	200	218	0
1982	6/14,17 (6/14,17)	M	Mean Length	555	615	636	670
			Std. Error	-	6	4	-
			Range	555- 555	524- 676	554- 710	670- 670
			Sample Size	1	31	61	1
		F	Mean Length		587	533	
			Std. Error		8	13	
			Range		568- 619	520- 545	
			Sample Size	0	6	2	0
	6/21,24 (6/21,24)	M	Mean Length	571	612	635	696
			Std. Error	-	5	6	4
			Range	571- 571	539- 660	564- 702	692- 700
			Sample Size	1	31	39	2
		F	Mean Length		574	594	
			Std. Error		5	6	
			Range		518- 613	555- 637	
			Sample Size	0	28	13	0

Appendix D.2. Mean length (mm) of chum salmon from the District 1 commercial fishery. (page 15 of 52)

Year	Sample Dates (Stratum Dates)	Sex		Age Class 0.2	0.3	0.4	0.5
	6/28 (6/28)	M	Mean Length	682	589	608	
			Std. Error	-	4	9	
			Range	682- 682	534- 660	555- 657	
			Sample Size	1	32	12	0
		F	Mean Length		564	570	578
			Std. Error		3	4	32
			Range		528- 616	527- 616	546- 610
			Sample Size	0	34	24	2
	7/2 (7/2)	M	Mean Length	561	583	603	640
			Std. Error	6	5	11	35
			Range	555- 567	518- 642	540- 664	605- 675
			Sample Size	2	32	11	2
		F	Mean Length		561	571	
			Std. Error		4	6	
			Range		521- 613	515- 610	
			Sample Size	0	42	16	0
	7/5 (7/5)	M	Mean Length		587	600	588
			Std. Error		4	12	-
			Range		545- 636	564- 667	588- 588
			Sample Size	0	41	8	1
		F	Mean Length		562	572	547
			Std. Error		3	8	-
			Range		516- 614	503- 621	547- 547
			Sample Size	0	49	14	1
	7/8 (7/8)	M	Mean Length		590	596	
			Std. Error		3	10	
			Range		520- 625	550- 650	
			Sample Size	0	54	13	0
		F	Mean Length		561	576	
			Std. Error		2	7	
			Range		510- 628	537- 630	
			Sample Size	0	84	15	0

Appendix D.2. Mean length (mm) of chum salmon from the District 1 commercial fishery. (page 16 of 52)

Year	Sample Dates (Stratum Dates)	Sex		Age Class 0.2	0.3	0.4	0.5
	7/12 (7/12)	M	Mean Length	517	584	603	
			Std. Error	-	5	7	
			Range	517- 517	525- 642	556- 637	
			Sample Size	1	43	11	0
		F	Mean Length		566	566	
			Std. Error		3	7	
			Range		506- 621	540- 615	
			Sample Size	0	44	10	0
	7/29,8/2,5,9 (7/29,8/2,5,9,12, 16,19,23,26,30)	M	Mean Length	552	578	593	
			Std. Error	-	8	6	
			Range	552- 552	533- 625	573- 615	
			Sample Size	1	12	7	0
		F	Mean Length	547	558	564	
			Std. Error	5	4	7	
			Range	532- 561	525- 610	536- 598	
			Sample Size	5	38	10	0
	Season	M	Mean Length	611	590	615	648
			Range	517- 682	518- 676	540- 710	588- 700
			Sample Size	7	276	162	6
		F	Mean Length	547	563	572	574
			Range	532- 561	506- 628	503- 637	546- 610
			Sample Size	5	325	104	3
1983	6/13 (6/13)	M	Mean Length		619	654	
			Std. Error		25	4	
			Range		517- 697	595- 702	
			Sample Size	0	6	46	0
		F	Mean Length		578	609	
			Std. Error		29	6	
			Range		520- 610	557- 656	
			Sample Size	0	3	19	0
	6/16 (6/16)	M	Mean Length		645	643	
			Std. Error		7	6	
			Range		604- 702	556- 691	
			Sample Size	0	14	36	0
		F	Mean Length		578	635	
			Std. Error		6	13	
			Range		567- 589	554- 694	
			Sample Size	0	3	12	0

Appendix D.2. Mean length (mm) of chum salmon from the District 1 commercial fishery. (page 17 of 52)

Year	Sample Dates (Stratum Dates)	Sex		Age Class 0.2	0.3	0.4	0.5
	6/20 (6/20)	M	Mean Length		594	625	635
			Std. Error		4	4	21
			Range		520- 651	542- 688	559- 685
			Sample Size	0	49	56	5
		F	Mean Length		592	593	
			Std. Error		4	3	
			Range		526- 641	547- 652	
			Sample Size	0	41	60	0
	6/23 (6/23)	M	Mean Length		590	611	670
			Std. Error		6	3	-
			Range		527- 659	527- 685	670- 670
			Sample Size	0	28	84	1
		F	Mean Length		563	588	579
			Std. Error		4	4	4
			Range		512- 616	489- 693	575- 582
			Sample Size	0	41	71	2
	6/27 (6/27)	M	Mean Length		593	607	628
			Std. Error		5	3	11
			Range		533- 689	518- 681	607- 670
			Sample Size	0	38	83	5
		F	Mean Length		568	586	
			Std. Error		4	3	
			Range		525- 625	532- 658	
			Sample Size	0	42	67	0
	6/30 (6/30)	M	Mean Length		596	619	620
			Std. Error		8	4	31
			Range		352- 650	560- 674	589- 651
			Sample Size	0	40	45	2
		F	Mean Length	552	569	597	
			Std. Error	-	4	3	
			Range	552- 552	504- 630	555- 653	
			Sample Size	1	53	55	0

Appendix D.2. Mean length (mm) of chum salmon from the District 1 commercial fishery. (page 18 of 52)

Year	Sample Dates (Stratum Dates)	Sex		Age Class 0.2	0.3	0.4	0.5
	7/4 (7/4)	M	Mean Length		580	601	622
			Std. Error		4	4	13
			Range		520- 624	547- 662	609- 634
			Sample Size	0	48	50	2
		F	Mean Length	540	557	576	578
			Std. Error	-	3	2	16
			Range	540- 540	489- 610	525- 621	562- 593
			Sample Size	1	64	62	2
	7/7 (7/7)	M	Mean Length	531	581	610	632
			Std. Error	25	5	5	-
			Range	506- 555	510- 635	545- 672	632- 632
			Sample Size	2	43	33	1
		F	Mean Length		561	577	
			Std. Error		3	4	
			Range		506- 638	520- 645	
			Sample Size	0	70	38	0
	7/11 (7/11)	M	Mean Length	536	577	592	
			Std. Error	5	3	5	
			Range	528- 551	521- 630	524- 643	
			Sample Size	4	67	39	0
		F	Mean Length	519	551	569	
			Std. Error	12	3	3	
			Range	482- 556	480- 621	530- 623	
			Sample Size	5	71	40	0
	8/1,8 (8/1,4,8,11, 15,18,22,26)	M	Mean Length	516	575	604	
			Std. Error	-	6	8	
			Range	516- 516	531- 625	575- 618	
			Sample Size	1	16	5	0
		F	Mean Length	526	538	563	
			Std. Error	6	6	16	
			Range	520- 531	470- 595	532- 602	
			Sample Size	2	27	4	0
	Season	M	Mean Length	530	587	611	629
			Range	506- 555	352- 702	518- 702	559- 685
			Sample Size	7	349	477	16
		F	Mean Length	531	563	586	578
			Range	482- 556	470- 641	489- 694	562- 593
			Sample Size	9	415	428	4

Appendix D.2. Mean length (mm) of chum salmon from the District 1 commercial fishery. (page 19 of 52)

Year	Sample Dates (Stratum Dates)	Sex		Age Class 0.2	0.3	0.4	0.5
1984	6/18 (6/18)	M	Mean Length		592	640	664
			Std. Error		5	4	17
			Range		530- 652	540- 710	610- 715
			Sample Size	0	45	70	5
		F	Mean Length		565	604	
			Std. Error		3	6	
			Range		519- 615	550- 680	
			Sample Size	0	58	29	0
	6/21 (6/21)	M	Mean Length		592	643	640
			Std. Error		3	8	25
			Range		520- 673	582- 696	580- 701
			Sample Size	0	81	20	4
		F	Mean Length		566	569	570
			Std. Error		3	7	30
			Range		508- 616	542- 589	540- 600
			Sample Size	0	78	6	2
	6/25 (6/25)	M	Mean Length	560	590	635	614
			Std. Error	-	2	11	29
			Range	560- 560	532- 678	605- 666	579- 671
			Sample Size	1	105	5	3
		F	Mean Length		564	578	577
			Std. Error		2	6	-
			Range		497- 630	554- 600	577- 577
			Sample Size	0	76	6	1
	6/28 (6/28)	M	Mean Length		593	633	
			Std. Error		3	9	
			Range		510- 701	585- 685	
			Sample Size	0	94	12	0
		F	Mean Length		568	590	
			Std. Error		3	7	
			Range		510- 661	537- 627	
			Sample Size	0	92	11	0
	7/2 (7/2)	M	Mean Length	546	587	581	592
			Std. Error	-	3	13	-
			Range	546- 546	526- 658	542- 625	592- 592
			Sample Size	1	62	6	1
		F	Mean Length		563	564	
			Std. Error		2	4	
			Range		511- 626	545- 574	
			Sample Size	0	123	10	0

Appendix D.2. Mean length (mm) of chum salmon from the District 1 commercial fishery. (page 20 of 52)

Year	Sample Dates (Stratum Dates)	Sex		Age Class 0.2	0.3	0.4	0.5
	7/5 (7/5)	M	Mean Length	549	580	630	
			Std. Error	-	4	6	
			Range	549- 549	519- 652	612- 650	
			Sample Size	1	57	5	0
		F	Mean Length	549	561	595	
			Std. Error	-	2	9	
			Range	549- 549	510- 635	558- 650	
			Sample Size	1	126	9	0
	7/9 (7/9)	M	Mean Length		580	616	585
			Std. Error		3	13	11
			Range		505- 645	561- 695	574- 595
			Sample Size	0	66	9	2
		F	Mean Length	556	555	571	
			Std. Error	10	2	14	
			Range	546- 566	506- 635	501- 674	
			Sample Size	2	122	10	0
	7/12 (7/12)	M	Mean Length		582	604	618
			Std. Error		3	19	43
			Range		516- 654	585- 623	575- 661
			Sample Size	0	61	2	2
		F	Mean Length	559	556	561	
			Std. Error	-	2	5	
			Range	559- 559	481- 614	535- 579	
			Sample Size	1	130	9	0
	7/16 (7/16,30,8/2,6, 9,13,16,20,23, 27,30,9/3)	M	Mean Length	582	572	595	554
			Std. Error	-	5	12	-
			Range	582- 582	492- 632	549- 623	554- 554
			Sample Size	1	45	7	1
		F	Mean Length	540	554	582	536
			Std. Error	6	2	8	-
			Range	512- 571	504- 615	539- 623	536- 536
			Sample Size	9	132	12	1
	Season	M	Mean Length	556	587	625	613
			Range	546- 582	492- 701	540- 710	554- 715
			Sample Size	4	616	136	18
		F	Mean Length	546	562	579	569
			Range	512- 571	481- 661	501- 680	536- 600
			Sample Size	13	937	102	4

Appendix D.2. Mean length (mm) of chum salmon from the District 1 commercial fishery. (page 21 of 52)

Year	Sample Dates (Stratum Dates)	Sex		Age Class 0.2	0.3	0.4	0.5
1985	6/20 (6/20)	M	Mean Length	557	604	611	
			Std. Error	-	6	3	
			Range	557- 557	555- 633	540- 675	
			Sample Size	1	14	90	0
		F	Mean Length		580	583	
			Std. Error		4	3	
			Range		540- 631	511- 656	
			Sample Size	0	23	93	0
	6/24 (6/24)	M	Mean Length		592	607	590
			Std. Error		6	4	-
			Range		534- 640	535- 665	590- 590
			Sample Size	0	20	54	1
		F	Mean Length		568	580	
			Std. Error		4	3	
			Range		525- 600	523- 681	
			Sample Size	0	29	71	0
	6/27 (6/27)	M	Mean Length		592	609	642
			Std. Error		5	5	-
			Range		535- 645	554- 722	642- 642
			Sample Size	0	37	48	1
		F	Mean Length		562	568	616
			Std. Error		3	3	.
			Range		523- 591	520- 635	616- 616
			Sample Size	0	45	76	1
	7/1 (7/1)	M	Mean Length	565	588	603	
			Std. Error	10	4	4	
			Range	555- 575	511- 662	546- 692	
			Sample Size	2	54	59	0
		F	Mean Length	562	576	586	
			Std. Error	22	4	4	
			Range	525- 601	530- 644	531- 677	
			Sample Size	3	37	56	0
	7/4 (7/4)	M	Mean Length		584	598	645
			Std. Error		4	4	-
			Range		530- 660	543- 677	645- 645
			Sample Size	0	42	51	1
		F	Mean Length	500	564	573	
			Std. Error	-	3	3	
			Range	500- 500	505- 629	515- 652	
			Sample Size	1	55	63	0

Appendix D.2. Mean length (mm) of chum salmon from the District 1 commercial fishery. (page 22 of 52)

Year	Sample Dates (Stratum Dates)	Sex		Age Class 0.2	0.3	0.4	0.5
	8/1 (8/1,5,8,12,15, 19,22,26,29)	M	Mean Length	522	571	588	
			Std. Error	-	23	13	
			Range	522- 522	532- 611	555- 640	
			Sample Size	1	3	7	0
		F	Mean Length		548	569	
			Std. Error		6	6	
			Range		511- 596	555- 590	
			Sample Size	0	17	6	0
	Season	M	Mean Length	555	589	605	622
			Range	522- 575	511- 662	535- 722	590- 645
			Sample Size	4	170	309	3
		F	Mean Length	552	567	577	616
			Range	500- 601	505- 644	511- 681	616- 616
			Sample Size	4	206	365	1
1986	6/26 (6/26)	M	Mean Length		589	623	
			Std. Error		4	9	
			Range		527- 650	533- 686	
			Sample Size	0	58	16	0
		F	Mean Length		573	587	632
			Std. Error		2	4	
			Range		515- 631	547- 630	632- 632
			Sample Size	0	93	34	1
	6/30 (6/30)	M	Mean Length		594	605	
			Std. Error		3	5	
			Range		526- 663	557- 685	
			Sample Size	0	78	29	0
		F	Mean Length	517	571	586	604
			Std. Error	-	4	6	-
			Range	517- 517	505- 677	537- 672	604- 604
			Sample Size	1	78	29	1
	7/3 (7/3)	M	Mean Length		587	609	559
			Std. Error		3	5	-
			Range		524- 645	551- 675	559- 559
			Sample Size	0	102	35	1
		F	Mean Length		573	586	563
			Std. Error		3	6	-
			Range		522- 636	534- 635	563- 563
			Sample Size	0	62	17	1

Appendix D.2. Mean length (mm) of chum salmon from the District 1 commercial fishery. (page 23 of 52)

Year	Sample Dates (Stratum Dates)	Sex		Age Class 0.2	0.3	0.4	0.5
	7/7 (7/7)	M	Mean Length	551	585	603	570
			Std. Error	-	3	5	-
			Range	551- 551	506- 655	565- 643	570- 570
			Sample Size	1	74	19	1
		F	Mean Length		564	580	
			Std. Error		3	5	
			Range		510- 650	530- 631	
			Sample Size	0	91	24	0
	7/10 (7/10,31,8/4,7, 11,13,15,21,28)	M	Mean Length	531	589	609	
			Std. Error	-	4	11	
			Range	531- 531	512- 675	540- 679	
			Sample Size	1	69	12	0
		F	Mean Length	532	557	561	
			Std. Error	1	3	6	
			Range	531- 532	502- 645	524- 632	
			Sample Size	2	112	21	0
	Season	M	Mean Length	541	589	610	564
			Range	531- 551	506- 675	533- 686	559- 570
			Sample Size	2	381	111	2
		F	Mean Length	526	567	582	601
			Range	517- 532	502- 677	524- 672	563- 632
			Sample Size	3	436	125	3
1987	6/18 (6/18)	M	Mean Length		572	622	
			Std. Error		10	8	
			Range		555- 590	570- 655	
			Sample Size	0	3	9	0
		F	Mean Length		571	597	
			Std. Error		9	7	
			Range		535- 600	540- 660	
			Sample Size	0	6	18	0
	6/24 (6/24)	M	Mean Length		606	603	632
			Std. Error		6	4	32
			Range		558- 656	454- 689	600- 664
			Sample Size	0	24	78	2
		F	Mean Length		578	589	603
			Std. Error		5	3	23
			Range		505- 635	534- 685	558- 628
			Sample Size	0	38	75	3

Appendix D.2. Mean length (mm) of chum salmon from the District 1 commercial fishery. (page 24 of 52)

Year	Sample Dates (Stratum Dates)	Sex		Age Class 0.2	0.3	0.4	0.5
	6/30,7/3 (6/30,7/3)	M	Mean Length		589	605	645
			Std. Error		4	4	16
			Range		516- 662	542- 700	629- 661
			Sample Size	0	56	42	2
		F	Mean Length	562	571	583	
			Std. Error	-	4	4	
			Range	562- 562	510- 620	415- 682	
			Sample Size	1	54	60	0
	7/7 (7/7)	M	Mean Length	564	582	604	
			Std. Error	14	5	5	
			Range	550- 578	518- 692	530- 672	
			Sample Size	2	44	40	0
		F	Mean Length	545	560	580	
			Std. Error	-	3	3	
			Range	545- 545	502- 624	527- 648	
			Sample Size	1	69	54	0
	7/11 (7/11)	M	Mean Length	549	580	613	660
			Std. Error	9	5	6	51
			Range	532- 562	517- 654	548- 730	609- 711
			Sample Size	3	46	39	2
		F	Mean Length	540	567	580	636
			Std. Error	2	3	3	-
			Range	538- 542	506- 639	525- 635	636- 636
			Sample Size	2	72	49	1
	7/15 (7/15)	M	Mean Length	562	571	596	603
			Std. Error	13	5	5	-
			Range	538- 582	516- 676	549- 646	603- 603
			Sample Size	3	47	31	1
		F	Mean Length	509	556	575	
			Std. Error	-	2	3	
			Range	509- 509	520- 641	534- 622	
			Sample Size	1	76	39	0
	7/20 (7/20,8/6,13,17, 19,21,24,27,31, 9/3,7)	M	Mean Length	552	583	577	
			Std. Error	29	5	5	
			Range	515- 610	520- 681	527- 641	
			Sample Size	3	55	27	0
		F	Mean Length	536	562	577	572
			Std. Error	11	4	6	-
			Range	490- 570	473- 644	518- 642	572- 572
			Sample Size	6	94	30	1

Appendix D.2. Mean length (mm) of chum salmon from the District 1 commercial fishery. (page 25 of 52)

Year	Sample Dates (Stratum Dates)	Sex		Age Class 0.2	0.3	0.4	0.5
	Season	M	Mean Length	557	584	603	641
			Range	515- 610	516- 692	454- 730	600- 711
			Sample Size	11	275	266	7
		F	Mean Length	540	565	582	604
			Range	490- 570	473- 644	415- 685	558- 636
			Sample Size	11	409	325	5
1988	6/16 (6/16)	M	Mean Length		602	615	605
			Std. Error		2	5	25
			Range		565- 661	542- 686	542- 662
			Sample Size	0	61	42	4
		F	Mean Length		576	582	574
			Std. Error		4	4	8
			Range		523- 635	512- 658	551- 598
			Sample Size	0	51	44	5
	6/20 (6/20)	M	Mean Length		601	613	603
			Std. Error		4	4	-
			Range		548- 645	531- 670	603- 603
			Sample Size	0	45	42	1
		F	Mean Length		581	584	537
			Std. Error		3	4	-
			Range		535- 645	539- 626	537- 537
			Sample Size	0	59	32	1
	6/24 (6/24)	M	Mean Length		598	604	590
			Std. Error		3	5	16
			Range		543- 666	568- 635	574- 606
			Sample Size	0	55	20	2
		F	Mean Length		570	566	597
			Std. Error		4	6	17
			Range		504- 730	518- 612	580- 613
			Sample Size	0	68	25	2
	6/28 (6/28)	M	Mean Length	542	595	602	
			Std. Error	11	3	5	
			Range	531- 553	539- 689	533- 692	
			Sample Size	2	92	43	0
		F	Mean Length		566	585	578
			Std. Error		3	6	-
			Range		520- 619	550- 632	578- 578
			Sample Size	0	51	18	1

Appendix D.2. Mean length (mm) of chum salmon from the District 1 commercial fishery. (page 26 of 52)

Year	Sample Dates (Stratum Dates)	Sex		Age Class 0.2	0.3	0.4	0.5
	7/2 (7/2)	M	Mean Length		593	582	609
			Std. Error		3	5	-
			Range		528- 697	552- 627	609- 609
			Sample Size	0	77	17	1
		F	Mean Length		573	575	
			Std. Error		3	11	
			Range		532- 634	536- 627	
			Sample Size	0	61	8	0
	7/5 (7/5)	M	Mean Length	572	592	599	
			Std. Error	13	3	11	
			Range	559- 584	546- 664	530- 665	
			Sample Size	2	92	15	0
		F	Mean Length	562	568	578	
			Std. Error	-	2	5	
			Range	562- 562	534- 636	532- 606	
			Sample Size	1	80	16	0
	7/8 (7/8)	M	Mean Length	507	577	579	
			Std. Error		3	7	
			Range	507- 507	530- 640	542- 624	
			Sample Size	1	76	12	0
		F	Mean Length	520	554	554	
			Std. Error	-	3	8	
			Range	520- 520	485- 702	522- 580	
			Sample Size	1	73	7	0
	7/11 (7/11)	M	Mean Length	550	576	577	
			Std. Error	-	3	11	
			Range	550- 550	530- 642	515- 630	
			Sample Size	1	89	9	0
		F	Mean Length		552	566	
			Std. Error		2	1	
			Range		493- 589	562- 569	
			Sample Size	0	98	5	0
	7/14 (7/14)	M	Mean Length	555	588	583	
			Std. Error	-	4	8	
			Range	555- 555	539- 649	520- 635	
			Sample Size	1	49	15	0
		F	Mean Length	556	557	592	600
			Std. Error	18	2	10	-
			Range	538- 574	508- 620	537- 630	600- 600
			Sample Size	2	130	9	1

Appendix D.2. Mean length (mm) of chum salmon from the District 1 commercial fishery. (page 27 of 52)

Year	Sample Dates (Stratum Dates)	Sex		Age Class 0.2	0.3	0.4	0.5
	7/18 (7/18)	M	Mean Length	612	573	587	
			Std. Error	3	4	8	
			Range	609- 615	486- 637	551- 634	
			Sample Size	2	75	12	0
		F	Mean Length	521	553	562	571
			Std. Error	3	2	6	-
			Range	514- 528	501- 618	528- 612	571- 571
			Sample Size	4	97	11	1
	7/21 (7/21)	M	Mean Length		571	568	
			Std. Error		3	6	
			Range		516- 638	546- 596	
			Sample Size	0	88	10	0
		F	Mean Length		552	579	
			Std. Error		2	9	
			Range		506- 602	538- 648	
			Sample Size	0	102	10	0
	7/25, 28 (7/25,28,8/1,4, 8,10,12,15,18, 20,27,31)	M	Mean Length	579	569	564	579
			Std. Error	-	2	7	26
			Range	579- 579	515- 641	520- 627	552- 605
			Sample Size	1	95	14	2
		F	Mean Length	517	549	571	
			Std. Error	18	2	12	
			Range	482- 540	487- 619	510- 625	
			Sample Size	3	115	10	0
	Season	M	Mean Length	556	587	597	599
			Range	507- 615	486- 697	515- 692	542- 662
			Sample Size	10	894	251	10
		F	Mean Length	536	563	577	578
			Range	482- 574	485- 730	510- 658	537- 613
			Sample Size	11	985	195	11
1989	6/19 (6/19)	M	Mean Length		604	633	608
			Std. Error		7	6	-
			Range		539- 655	547- 698	608- 608
			Sample Size	0	22	40	1
		F	Mean Length		561	591	577
			Std. Error		5	3	5
			Range		523- 594	544- 670	571- 587
			Sample Size	0	20	60	3

Appendix D.2. Mean length (mm) of chum salmon from the District 1 commercial fishery. (page 28 of 52)

Year	Sample Dates (Stratum Dates)	Sex		Age Class 0.2	0.3	0.4	0.5
	6/23 (6/23)	M	Mean Length		591	622	608
			Std. Error				
			Range				
			Sample Size	0	0	0	0
		F	Mean Length		570	587	577
			Std. Error				
			Range				
			Sample Size	0	0	0	0
	Note: No sample data, mean lengths are averages from 6/19 and 6/26 catch data.						
	6/26 (6/26)	M	Mean Length		579	612	
			Std. Error		5	6	
			Range		550- 609	564- 660	
			Sample Size	0	14	20	0
		F	Mean Length		580	582	
			Std. Error		6	6	
			Range		547- 614	525- 645	
			Sample Size	0	13	27	0
	6/30 (6/30)	M	Mean Length		589	611	611
			Std. Error		12	4	-
			Range		533- 660	569- 652	611- 611
			Sample Size	0	11	29	1
		F	Mean Length		572	574	
			Std. Error		6	8	
			Range		539- 611	443- 609	
			Sample Size	0	12	22	0
	7/3 (7/3)	M	Mean Length		576	599	
			Std. Error		8	5	
			Range		534- 633	550- 644	
			Sample Size	0	13	21	0
		F	Mean Length		549	572	584
			Std. Error		5	4	-
			Range		525- 577	514- 620	584- 584
			Sample Size	0	11	33	1
	7/5 (7/5)	M	Mean Length		586	619	
			Std. Error		8	5	
			Range		550- 662	575- 688	
			Sample Size	0	13	24	0
		F	Mean Length		567	590	
			Std. Error		7	7	
			Range		538- 586	542- 633	

Appendix D.2. Mean length (mm) of chum salmon from the District 1 commercial fishery. (page 29 of 52)

Year	Sample Dates (Stratum Dates)	Sex		Age Class 0.2	0.3	0.4	0.5
			Sample Size	0	9	19	0
	7/8 (7/8)	M	Mean Length		575	604	
			Std. Error				
			Range				
			Sample Size	0	0	0	0
		F	Mean Length		565	582	573
			Std. Error				
			Range				
			Sample Size	0	0	0	0
	Note: No sample data, mean lengths are averages from 7/5 and 7/11 catch data.						
	7/11 (7/11)	M	Mean Length		565	590	
			Std. Error		9	5	
			Range		516- 630	544- 645	
			Sample Size	0	12	22	0
		F	Mean Length		562	574	573
			Std. Error		5	6	-
			Range		513- 614	525- 623	573- 573
			Sample Size	0	24	19	1
	7/14 (7/14)	M	Mean Length	500	573	592	
			Std. Error	-	14	6	
			Range	500- 500	513- 654	543- 622	
			Sample size	1	11	14	0
		F	Mean Length		548	565	550
			Std. Error		3	6	-
			Range		505- 586	538- 597	550- 550
			Sample size	0	31	13	1
	7/18 (7/18,27,8/3,7, 9,12,15,18,23, 26,29,9/1)	M	Mean Length		571	598	568
			Std. Error		8	9	-
			Range		507- 602	544- 679	568- 568
			Sample Size	0	11	15	1
		F	Mean Length	576	561	570	
			Std. Error	-	5	5	
			Range	576- 576	510- 599	538- 620	
			Sample Size	1	21	17	0
	Season	M	Mean Length	500	581	608	602
			Range	500- 500	507- 665	538- 698	568- 611
			Sample size	1	107	185	3
		F	Mean Length	576	562	579	574
			Range	576- 576	505- 614	443- 670	550- 587
			Sample size	1	141	210	6

Appendix D.2. Mean length (mm) of chum salmon from the District 1 commercial fishery. (page 30 of 52)

Year	Sample Dates (Stratum Dates)	Sex		Age Class 0.2	0.3	0.4	0.5
1990	6/20 (6/20)	M	Mean Length		607	607	605
			Std. Error		8	7	-
			Range		570- 640	565- 660	605- 605
			Sample Size	0	9	15	1
		F	Mean Length		543		
			Std. Error		9		
			Range		525- 554		
			Sample Size	0	3	0	0
	6/25 (6/25)	M	Mean Length		586	603	625
			Std. Error		4	5	24
			Range		542- 640	526- 660	587- 695
			Sample Size	0	32	35	4
		F	Mean Length		570	587	
			Std. Error		7	6	
			Range		540- 645	553- 617	
			Sample Size	0	18	12	0
	6/29 (6/29)	M	Mean Length	560	570	607	590
			Std. Error	-	6	12	-
			Range	560- 560	523- 611	565- 685	590- 590
			Sample Size	1	18	9	1
		F	Mean Length	505	563	580	
			Std. Error	-	4	13	
			Range	505- 505	510- 611	545- 642	
			Sample Size	1	41	6	0
	7/5 (7/5)	M	Mean Length		588	619	
			Std. Error		7	10	
			Range		529- 652	559- 680	
			Sample Size	0	28	15	0
		F	Mean Length		575	572	
			Std. Error		6	11	
			Range		509- 649	514- 613	
			Sample Size	0	26	8	0
	7/9 (7/9)	M	Mean Length		587	610	
			Std. Error		6	19	
			Range		528- 644	537- 642	
			Sample Size	0	22	5	0
		F	Mean Length		548	578	594
			Std. Error		5	9	-
			Range		482- 598	532- 646	594- 594
			Sample Size	0	37	12	1

Appendix D.2. Mean length (mm) of chum salmon from the District 1 commercial fishery. (page 31 of 52)

Year	Sample Dates (Stratum Dates)	Sex		Age Class 0.2	0.3	0.4	0.5
	7/14 (7/14)	M	Mean Length		582	627	
			Std. Error		6	23	
			Range		530- 627	582- 660	
			Sample Size	0	18	3	0
		F	Mean Length		553	559	
			Std. Error		6	9	
			Range		500- 645	535- 610	
			Sample Size	0	30	8	0
	8/1 (8/1)	M	Mean Length	568	562		
			Std. Error	-	4		
			Range	568- 568	524- 622		
			Sample Size	1	28	0	0
		F	Mean Length	469	541	571	
			Std. Error	-	4	18	
			Range	469- 469	482- 627	532- 620	
			Sample Size	1	48	4	0
	8/6 (8/6,10,13,16, 20,27)	M	Mean Length	492	559	633	
			Std. Error	9	10	-	
			Range	483- 500	507- 635	633- 633	
			Sample size	2	16	1	0
		F	Mean Length	519	533	546	
			Std. Error	13	4	16	
			Range	506- 532	497- 572	499- 598	
			Sample size	2	30	6	0
	Season	M	Mean Length	546	587	610	612
			Range	483- 568	507- 652	526 -685	587- 695
			Sample size	4	171	83	6
		F	Mean Length	505	558	574	594
			Range	469- 532	482- 649	499- 646	594- 594
			Sample size	4	233	56	1
1991	6/20 (6/20)	M	Mean Length		586	604	
			Std. Error		5	4	
			Range		540- 660	518- 670	
			Sample Size	0	23	39	0
		F	Mean Length		561	581	
			Std. Error		4	3	
			Range		505- 593	510- 682	
			Sample Size	0	29	63	0

Appendix D.2. Mean length (mm) of chum salmon from the District 1 commercial fishery. (page 32 of 52)

Year	Sample Dates (Stratum Dates)	Sex		Age Class 0.2	0.3	0.4	0.5
	6/24 (6/24)	M	Mean Length		581	597	
			Std. Error				
			Range				
			Sample Size	0	0	0	0
		F	Mean Length		558	575	
			Std. Error				
			Range				
			Sample Size	0	0	0	0
	Note: No data, mean lengths are extrapolated from 6/20 and 7/6.						
	7/1 (7/1)	M	Mean Length		575	591	
			Std. Error				
			Range				
			Sample Size	0	0	0	0
		F	Mean Length		555	570	
			Std. Error				
			Range				
			Sample Size	0	0	0	0
	Note: No data, mean lengths are extrapolated from 6/20 and 7/6.						
	7/6 (7/6)	M	Mean Length	513	570	584	607
			Std. Error	-	3	5	-
			Range	513- 513	521- 629	542- 663	607- 607
			Sample Size	1	62	34	1
		F	Mean Length	501	553	564	
			Std. Error	-	4	6	
			Range	501- 501	514- 649	520- 639	
			Sample Size	1	45	21	0
	7/13 (7/13)	M	Mean Length	494	561	573	
			Std. Error	-	5	6	
			Range	494- 494	507- 628	531- 625	
			Sample Size	1	38	17	0
		F	Mean Length	537	540	555	
			Std. Error	4	4	5	
			Range	531- 544	484- 627	515- 609	
			Sample Size	3	50	27	0
	7/18 (7/18)	M	Mean Length	527	554	563	
			Std. Error	16	3	5	
			Range	502- 557	510- 589	523- 598	
			Sample Size	3	45	20	0
		F	Mean Length	544	540	548	
			Std. Error	11	3	5	
			Range	516- 570	500- 617	503- 600	
			Sample Size	4	61	20	0

Appendix D.2. Mean length (mm) of chum salmon from the District 1 commercial fishery. (page 33 of 52)

Year	Sample Dates (Stratum Dates)	Sex		Age Class 0.2	0.3	0.4	0.5
	7/22 (7/22,25)	M	Mean Length		550	576	
			Std. Error		4	8	
			Range		476- 603	521- 644	
			Sample Size	0	42	20	0
		F	Mean Length	492	535	547	
			Std. Error	26	3	6	
			Range	466- 517	472- 605	504- 628	
			Sample Size	2	65	29	0
	7/29 (7/25,29)	M	Mean Length	511	552	565	
			Std. Error	14	4	9	
			Range	497- 525	513- 599	503- 621	
			Sample Size	2	35	13	0
		F	Mean Length	509	532	554	
			Std. Error	14	3	9	
			Range	495- 523	487- 599	504- 620	
			Sample Size	2	75	19	0
	8/1 (8/1)	M	Mean Length	523	552	571	
			Std. Error	-	5	14	
			Range	523- 523	483- 619	497- 616	
			Sample Size	1	31	8	0
		F	Mean Length	493	534	552	
			Std. Error	-	3	7	
			Range	493- 493	488- 588	510- 625	
			Sample Size	1	81	24	0
	8/5 (8/5)	M	Mean Length	533	551	568	
			Std. Error	7	5	14	
			Range	519- 543	503- 615	510- 661	
			Sample size	3	35	12	0
		F	Mean Length	520	536	556	
			Std. Error	2	3	9	
			Range	518- 522	477- 593	487- 603	
			Sample size	2	71	15	0
	8/8 (8/8,12,14,19,26)	M	Mean Length		540	548	
			Std. Error		4	9	
			Range		483- 623	501- 624	
			Sample Size	0	51	13	0
		F	Mean Length	508	527	524	
			Std. Error	19	3	6	
			Range	489- 527	475- 613	480- 559	
			Sample Size	2	70	17	0

Appendix D.2. Mean length (mm) of chum salmon from the District 1 commercial fishery. (page 34 of 52)

Year	Sample Dates (Stratum Dates)	Sex		Age Class 0.2	0.3	0.4	0.5
	Season	M	Mean Length	519	564	601	607
			Range	494- 557	476- 660	497- 660	607- 607
			Sample size	11	362	176	1
		F	Mean Length	524	549	587	
			Range	466- 570	472- 649	480- 682	
			Sample size	17	547	235	0
1992	6/18 (6/18)	M	Mean Length		565	577	593
			Std. Error		4	3	17
			Range		535- 625	500- 652	551- 650
			Sample Size	0	39	80	5
		F	Mean Length		546	547	568
			Std. Error		4	4	14
			Range		500- 585	520- 595	554- 581
			Sample Size	0	26	29	2
	6/22 (6/22)	M	Mean Length		561	575	613
			Std. Error		5	3	15
			Range		500- 623	512- 623	590- 641
			Sample Size	0	35	68	3
		F	Mean Length		551	555	561
			Std. Error		3	3	-
			Range		522- 583	511- 600	561- 561
			Sample Size	0	28	53	1
	6/25 (6/25)	M	Mean Length		567	572	575
			Std. Error		5	4	45
			Range		488-672	522- 651	530- 620
			Sample Size	0	38	48	2
		F	Mean Length		536	552	
			Std. Error		4	3	
			Range		496- 569	500- 628	
			Sample Size	0	32	61	0
	6/29 (6/29)	M	Mean Length		560	573	600
			Std. Error		5	4	7
			Range		500- 621	510- 641	593- 606
			Sample Size	0	34	47	2
		F	Mean Length		535	546	517
			Std. Error		3	3	5
			Range		500- 605	499- 627	512- 521
			Sample Size	0	48	58	2

Appendix D.2. Mean length (mm) of chum salmon from the District 1 commercial fishery. (page 35 of 52)

Year	Sample Dates (Stratum Dates)	Sex		Age Class 0.2	0.3	0.4	0.5
	7/6 (7/6)	M	Mean Length		557	558	578
			Std. Error		4	5	-
			Range		497- 625	506- 606	578- 578
			Sample Size	0	61	33	1
		F	Mean Length		536	544	563
			Std. Error		3	4	14
			Range		486- 584	497- 640	548- 591
			Sample Size	0	53	40	3
	8/3 (8/3,6,11,14,17 20,24,27,31)	M	Mean Length		523	532	
			Std. Error		6	6	
			Range		448- 635	507- 580	
			Sample Size	0	44	11	0
		F	Mean Length	491	516	534	558
			Std. Error	-	2	7	-
			Range	491- 491	469- 576	506- 618	558- 558
			Sample Size	1	80	17	1
	Season	M	Mean Length		560	571	595
			Range		448- 672	500- 652	530- 650
			Sample size	0	251	287	13
		F	Mean Length	491	538	549	551
			Range	491- 491	469- 605	497- 640	512- 591
			Sample size	1	267	258	9
1993	6/25 (6/25)	M	Mean Length		555	572	595
			Std. Error		4	3	12
			Range		509- 599	502- 652	561- 644
			Sample Size	0	28	77	8
		F	Mean Length	540	541	560	568
			Std. Error	-	4	3	11
			Range	540- 540	502- 573	521- 607	535- 600
			Sample Size	1	25	49	6
	7/31 (7/31,8/3,6,11,14, 17,20,24,27,31)	M	Mean Length	502	532	550	
			Std. Error	7	7	5	
			Range	488- 516	483- 597	515- 580	
			Sample Size	4	24	19	0
		F	Mean Length	497	525	530	517
			Std. Error	10	3	3	5
			Range	487- 507	476- 573	508- 565	511- 526
			Sample Size	2	40	32	3

Appendix D.2. Mean length (mm) of chum salmon from the District 1 commercial fishery. (page 36 of 52)

Year	Sample Dates (Stratum Dates)	Sex		Age Class 0.2	0.3	0.4	0.5
	Season	M	Mean Length	502	549	570	595
			Range	488- 516	483- 599	502- 652	561- 644
			Sample size	4	52	96	8
		F	Mean Length	521	535	553	559
			Range	487- 540	476- 573	508- 607	511- 600
			Sample size	3	65	81	9
1994	6/24 (6/24)	M	Mean Length		566	564	564
			Std. Error		4	4	7
			Range		524- 639	509- 617	545- 592
			Sample Size	0	42	45	7
		F	Mean Length		543	549	565
			Std. Error		4	5	7
			Range		485- 609	497- 618	558- 571
			Sample Size	0	44	33	2
	7/14 (7/14)	M	Mean Length	559	559	577	
			Std. Error	-	3	7	
			Range	599- 599	510- 615	526- 608	
			Sample Size	1	53	14	0
		F	Mean Length	519	546	555	567
			Std. Error	-	2	3	15
			Range	519- 519	495- 598	534- 590	543- 596
			Sample Size	1	100	23	3
	7/19 (7/19)	M	Mean Length	514	556	556	
			Std. Error	-	4	10	
			Range	514- 514	499- 621	505- 607	
			Sample Size	1	60	10	0
		F	Mean Length	521	538	547	580
			Std. Error	-	2	4	-
			Range	521- 521	481- 596	508- 571	580- 580
			Sample Size	1	98	19	1
	7/23 (7/23)	M	Mean Length	522	549	556	
			Std. Error	-	3	9	
			Range	522- 522	497- 633	518- 585	
			Sample Size	1	86	8	0
		F	Mean Length	540	529	526	
			Std. Error	16	3	11	
			Range	524- 556	426- 604	477- 562	
			Sample Size	2	82	9	0

Appendix D.2. Mean length (mm) of chum salmon from the District 1 commercial fishery. (page 37 of 52)

Year	Sample Dates (Stratum Dates)	Sex		Age Class 0.2	0.3	0.4	0.5
	7/26 (7/26)	M	Mean Length	518	547	552	
			Std. Error	-	5	8	
			Range	518- 518	499- 615	520- 621	
			Sample Size	1	40	12	0
		F	Mean Length	530	522	522	
			Std. Error	-	3	7	
			Range	530- 530	409- 575	473- 580	
			Sample Size	1	120	17	0
	7/29 (7/29)	M	Mean Length		544	556	
			Std. Error		4	9	
			Range		468- 604	509- 615	
			Sample Size	0	50	12	0
		F	Mean Length	507	527	542	
			Std. Error	-	3	7	
			Range	507- 507	457- 605	484- 595	
			Sample Size	1	110	17	0
	8/4 (8/4)	M	Mean Length		555	535	
			Std. Error		5	7	
			Range		510- 604	506- 586	
			Sample Size	0	34	10	0
		F	Mean Length		534	534	
			Std. Error		4	6	
			Range		428- 625	503- 596	
			Sample Size	0	66	18	0
	8/9 (8/9,12,15,18, 22,25,27,9/1)	M	Mean Length		552	542	
			Std. Error		4	13	
			Range		498- 615	508- 599	
			Sample Size	0	44	6	0
		F	Mean Length		532	535	
			Std. Error		3	8	
			Range		465- 617	491- 574	
			Sample Size	0	71	12	0
	Season	M	Mean Length	528	557	563	564
			Range	514- 559	468- 639	505- 621	545- 592
			Sample size	4	409	117	7
		F	Mean Length	528	536	546	568
			Range	507- 556	409- 625	447- 618	543- 596
			Sample size	6	691	148	6

Appendix D.2. Mean length (mm) of chum salmon from the District 1 commercial fishery. (page 38 of 52)

Year	Sample Dates (Stratum Dates)	Sex		Age Class 0.2	0.3	0.4	0.5
1995	6/22	M	Mean Length		580	591	592
	(6/22)		Std. Error		4	4	27
			Range		542- 634	511- 675	543- 637
			Sample Size	0	48	56	3
		F	Mean Length	542	557	526	
			Std. Error	-	4	11	
			Range	542- 542	504- 660	477- 562	
			Sample Size	1	41	41	0
	6/26	M	Mean Length	543	568	575	608
	(6/26)		Std. Error	-	4	5	-
			Range	543- 543	524- 623	531- 662	608- 608
			Sample Size	1	42	24	1
		F	Mean Length		547	557	
			Std. Error		3	3	
			Range		505- 598	512- 609	
			Sample Size	0	54	62	0
	6/29	M	Mean Length	545	576	578	587
	(6/29)		Std. Error	11	3	4	16
			Range	528- 565	535- 620	506- 625	529- 642
			Sample Size	3	58	46	6
		F	Mean Length		546	563	579
			Std. Error		4	5	12
			Range		502- 632	515- 637	567- 590
			Sample Size	0	42	32	2
	7/3	M	Mean Length	541	563	582	520
	(7/3)		Std. Error	3	3	4	-
			Range	533- 552	526- 630	532- 635	520- 520
			Sample Size	6	62	42	1
		F	Mean Length	571	533	559	
			Std. Error	-	3	4	
			Range	571- 571	510- 592	508- 602	
			Sample Size	1	52	31	0
	7/6	M	Mean Length	501	560	575	572
	(7/6)		Std. Error	7	3	8	-
			Range	491- 514	513- 622	529- 669	572- 572
			Sample Size	3	51	22	1
		F	Mean Length	523	543	548	
			Std. Error	5	3	5	
			Range	512- 543	446- 614	487- 597	
			Sample Size	5	66	30	0

Appendix D.2. Mean length (mm) of chum salmon from the District 1 commercial fishery. (page 39 of 52)

Year	Sample Dates (Stratum Dates)	Sex		Age Class 0.2	0.3	0.4	0.5
	7/10 (7/10)	M	Mean Length	530	573	586	579
			Std. Error	6	4	7	15
			Range	518- 543	527- 647	530- 633	557- 607
			Sample Size	4	44	17	3
		F	Mean Length	513	556	563	
			Std. Error	4	3	4	
			Range	503- 523	515- 635	521- 616	
			Sample Size	5	71	35	0
	7/14 (7/14)	M	Mean Length	508	555	562	565
			Std. Error	8	4	6	24
			Range	477- 539	499-640	512- 627	541- 588
			Sample Size	7	45	24	2
		F	Mean Length	503	531	540	
			Std. Error	9	2	4	
			Range	477- 529	488- 582	497- 593	
			Sample Size	6	60	36	0
	7/18 (7/18)	M	Mean Length	523	561	554	
			Std. Error	11	4	4	
			Range	488- 582	522- 624	516- 582	
			Sample Size	8	50	21	0
		F	Mean Length	523	540	548	
			Std. Error	14	3	4	
			Range	495- 538	507- 594	505- 605	
			Sample Size	3	62	33	0
	7/21 (7/21)	M	Mean Length	511	551	564	600
			Std. Error	8	3	6	8
			Range	474- 540	487- 633	520- 605	592- 607
			Sample Size	8	67	16	2
		F	Mean Length	523	533	551	
			Std. Error	8	3	5	
			Range	492- 562	493- 582	508- 605	
			Sample Size	8	54	30	0
	8/4 (8/4)	M	Mean Length	531	553	566	
			Std. Error	16	11	12	
			Range	492- 565	497- 609	509- 657	
			Sample Size	4	10	13	0
		F	Mean Length	527	547	563	587
			Std. Error	4	5	6	-
			Range	518- 541	497- 597	532- 621	587- 587
			Sample Size	5	25	14	1

Appendix D.2. Mean length (mm) of chum salmon from the District 1 commercial fishery. (page 40 of 52)

Year	Sample Dates (Stratum Dates)	Sex		Age Class 0.2	0.3	0.4	0.5
	8/8, 12 (8/8,12,16,19,22, 26,29,9/1)	M	Mean Length	544	563	599	598
			Std. Error	13	7	10	-
			Range	497- 610	528-596	562- 637	598- 598
			Sample Size	9	13	9	1
		F	Mean Length	525	546	556	562
			Std. Error	5	6	7	-
			Range	512- 534	483- 601	491- 609	562- 562
			Sample Size	4	24	20	1
	Season	M	Mean Length	527	566	579	581
			Range	474- 610	487- 647	506- 675	520- 642
			Sample size	53	490	290	20
		F	Mean Length	520	545	553	578
			Range	477- 571	446- 660	487- 637	562- 590
			Sample size	38	551	364	4
1996	6/17 (6/17)	M	Mean Length		588	602	598
			Std. Error		3	4	8
			Range		529- 649	548- 680	580- 629
			Sample Size	0	77	43	5
		F	Mean Length		561	571	574
			Std. Error		4	3	12
			Range		530- 584	517- 620	539- 597
			Sample Size	0	21	40	4
	6/20 (6/20)	M	Mean Length	560	585	591	607
			Std. Error	-	3	4	19
			Range	560- 560	528- 670	535- 659	568- 648
			Sample Size	1	70	41	4
		F	Mean Length		562	571	543
			Std. Error		2	5	-
			Range		529- 590	518- 661	543- 543
			Sample Size	0	38	32	1
	6/24 (6/24)	M	Mean Length		585	602	602
			Std. Error		3	6	-
			Range		509- 651	551- 684	602- 602
			Sample Size	0	74	27	1
		F	Mean Length		553	566	573
			Std. Error		3	5	9
			Range		500-614	530- 612	558- 588
			Sample Size	0	56	27	3

Appendix D.2. Mean length (mm) of chum salmon from the District 1 commercial fishery. (page 41 of 52)

Year	Sample Dates (Stratum Dates)	Sex		Age Class 0.2	0.3	0.4	0.5
	7/2 (7/2)	M	Mean Length		580	586	591
			Std. Error		4	8	10
			Range		524- 692	540- 667	573- 607
			Sample Size	0	56	15	3
		F	Mean Length		551	565	579
			Std. Error		3	4	25
			Range		481- 613	524- 616	532- 616
			Sample Size	0	82	33	3
	7/5 (7/5)	M	Mean Length		561	564	590
			Std. Error		4	5	3
			Range		487- 647	527- 638	584- 599
			Sample Size	0	64	25	5
		F	Mean Length		539	546	563
			Std. Error		3	4	-
			Range		492- 598	489- 594	563- 563
			Sample Size	0	71	29	1
	7/8 (7/8)	M	Mean Length		579	582	576
			Std. Error		3	10	4
			Range		535- 667	544- 633	572- 580
			Sample Size	0	63	10	2
		F	Mean Length	552	553	559	563
			Std. Error	-	2	4	12
			Range	552- 552	508- 594	511- 588	528- 578
			Sample Size	1	91	21	4
	7/12 (7/12)	M	Mean Length		571	593	603
			Std. Error		4	9	34
			Range		514- 633	512- 649	569- 636
			Sample Size	0	58	15	2
		F	Mean Length		555	562	554
			Std. Error		2	4	16
			Range		512- 610	527- 616	524- 578
			Sample Size	0	93	27	3
	7/19 (7/16,19)	M	Mean Length		573	590	
			Std. Error		3	7	
			Range		506- 643	553- 645	
			Sample Size	0	67	18	0
		F	Mean Length	522	553	551	541
			Std. Error	-	2	4	-
			Range	522- 522	512- 595	520- 582	541- 541
			Sample Size	1	94	16	1

Appendix D.2. Mean length (mm) of chum salmon from the District 1 commercial fishery. (page 42 of 52)

Year	Sample Dates (Stratum Dates)	Sex		Age Class 0.2	0.3	0.4	0.5
	7/22 (7/22)	M	Mean Length		570	571	581
			Std. Error		3	7	-
			Range		518- 639	534- 610	581- 581
			Sample Size	0	79	11	1
		F	Mean Length	520	545	549	
			Std. Error	19	3	5	
			Range	501- 538	446- 623	513- 594	
			Sample Size	2	82	20	0
	7/25 (7/25)	M	Mean Length		562	562	
			Std. Error		4	12	
			Range		488- 675	493- 607	
			Sample Size	0	61	11	0
		F	Mean Length	500	540	549	541
			Std. Error	-	3	6	28
			Range	500- 500	477- 606	521- 612	487- 583
			Sample Size	1	92	14	3
	7/29 (7/29,31)	M	Mean Length		567	593	
			Std. Error		5	7	
			Range		520- 640	575- 610	
			Sample Size	0	40	4	0
		F	Mean Length		549	563	541
			Std. Error		2	6	17
			Range		460- 668	511- 620	524- 557
			Sample Size	0	127	17	2
	8/3 (8/3,7,10,13,16, 20,23,26)	M	Mean Length		562	593	
			Std. Error		6	27	
			Range		506- 591	542- 632	
			Sample Size	0	13	3	0
		F	Mean Length		547	559	
			Std. Error		4	10	
			Range		499- 619	519- 591	
			Sample Size	0	29	6	0
	Season	M	Mean Length	560	576	589	596
			Range	560- 560	487- 692	493- 684	568- 648
			Sample size	1	722	223	23
		F	Mean Length	525	551	561	562
			Range	500- 552	446- 668	489- 661	487- 616
			Sample size	5	876	282	25

Appendix D.2. Mean length (mm) of chum salmon from the District 1 commercial fishery. (page 43 of 52)

Year	Sample Dates (Stratum Dates)	Sex		Age Class 0.2	0.3	0.4	0.5
1997 [b]	6/23 (6/23)	M	Mean Length	530	581	603	604
			Std. Error	30	4	3	16
			Range	500- 560	531- 648	549- 645	572- 624
			Sample Size	2	56	49	3
		F	Mean Length		560	578	611
			Std. Error		4	3	-
			Range		526- 610	514- 631	611- 611
			Sample Size	0	35	51	1
	7/31 (7/31)	M	Mean Length	535	552	579	571
			Std. Error	22	4	12	-
			Range	503- 599	501- 627	546- 656	571- 571
			Sample Size	4	33	8	1
		F	Mean Length	529	536	554	
			Std. Error	16	3	10	
			Range	498- 550	490- 599	508- 600	
			Sample Size	3	54	12	0
	8/6 (8/6,12,18)	M	Mean Length	551	552	562	594
			Std. Error	10	8	-	6
			Range	541- 561	490- 581	562- 562	588- 599
			Sample Size	2	13	1	2
		F	Mean Length	527	547	569	590
			Std. Error	18	7	11	-
			Range	483- 590	491- 601	547- 583	590- 590
			Sample Size	5	16	3	1
	Season	M	Mean Length	537	574	602	599
			Range	500- 599	490- 648	546- 656	571- 624
			Sample Size	8	102	58	6
		F	Mean Length	528	552	577	603
			Range	483- 590	490- 610	508- 631	590- 611
			Sample Size	8	105	66	2
1998 [b]	6/24 (6/24)	M	Mean Length		580	599	602
			Std. Error		3	7	-
			Range		514- 648	542- 629	602- 602
			Sample Size	0	85	14	1
		F	Mean Length		562	573	
			Std. Error		2	6	
			Range		507- 636	542- 606	
			Sample Size	0	76	15	0

Appendix D.2. Mean length (mm) of chum salmon from the District 1 commercial fishery. (page 44 of 52)

Year	Sample Dates (Stratum Dates)	Sex		Age Class 0.2	0.3	0.4	0.5
	6/29 (6/29)	M	Mean Length	591	566	585	
			Std. Error	-	3	6	
			Range	591- 591	506- 614	555- 621	
			Sample Size	1	64	12	0
		F	Mean Length		545	559	
			Std. Error		2	9	
			Range		510- 635	514- 633	
			Sample Size	0	86	14	0
	7/3 (7/3)	M	Mean Length	454	570	583	
			Std. Error	-	3	9	
			Range	454- 454	525- 623	542- 611	
			Sample Size	1	80	9	0
		F	Mean Length	530	547	563	
			Std. Error	-	2	4	
			Range	530- 530	500- 603	536- 593	
			Sample Size	1	90	14	0
	7/11 (7/11)	M	Mean Length		570	559	
			Std. Error		3	13	
			Range		520- 630	537- 581	
			Sample Size	0	51	3	0
		F	Mean Length	526	544	555	
			Std. Error	-	2	7	
			Range	526- 526	491- 605	524- 599	
			Sample Size	1	123	11	0
	7/22 (7/22)	M	Mean Length	509	566	580	
			Std. Error	4	3	5	
			Range	505- 512	509- 668	562- 598	
			Sample Size	2	74	6	0
		F	Mean Length	508	543	559	
			Std. Error	8	2	10	
			Range	500- 516	489- 610	530- 592	
			Sample Size	2	110	5	0
	7/27 (7/27)	M	Mean Length	525	555	572	
			Std. Error	10	3	21	
			Range	515- 535	497- 611	551- 593	
			Sample Size	2	80	2	0
		F	Mean Length	526	540	539	559
			Std. Error	6	2	6	-
			Range	516- 543	485- 590	521- 569	559- 559
			Sample Size	5	120	8	1

Appendix D.2. Mean length (mm) of chum salmon from the District 1 commercial fishery. (page 45 of 52)

Year	Sample Dates (Stratum Dates)	Sex		Age Class 0.2	0.3	0.4	0.5
	8/1 (8/1)	M	Mean Length	507	556	598	
			Std. Error	-	3	19	
			Range	507- 507	493- 610	564- 641	
			Sample Size	1	72	4	0
		F	Mean Length	523	540	554	
			Std. Error	4	2	7	
			Range	514- 537	486- 613	497- 593	
			Sample Size	5	110	16	0
	8/6,11 (8/6,11,17,22,29)	M	Mean Length	525	568	593	
			Std. Error	-	7	-	
			Range	525- 525	496- 619	593- 593	
			Sample Size	1	21	1	0
		F	Mean Length		548	536	
			Std. Error		4	13	
			Range		500- 591	510- 551	
			Sample Size	0	29	3	0
	Season	M	Mean Length	529	570	586	602
			Range	454- 591	493- 668	537- 641	602- 602
			Sample Size	8	527	51	1
		F	Mean Length	524	547	562	559
			Range	500- 543	485- 636	497- 633	559- 559
			Sample Size	14	744	86	1
1999 [b]	6/30 (6/30)	M	Mean Length		578	596	
			Std. Error		3	5	
			Range		532- 640	539- 647	
			Sample Size	0	62	41	0
		F	Mean Length		564	572	
			Std. Error		3	3	
			Range		525- 608	527- 616	
			Sample Size	0	59	47	0
	8/1 (8/1)	M	Mean Length		561	581	
			Std. Error		7	11	
			Range		514- 650	522- 622	
			Sample Size	0	20	8	0
		F	Mean Length	536	546	546	
			Std. Error	-	5	11	
			Range	536- 536	502- 577	482- 592	

Appendix D.2. Mean length (mm) of chum salmon from the District 1 commercial fishery. (page 46 of 52)

Year	Sample Dates (Stratum Dates)	Sex		Age Class 0.2	0.3	0.4	0.5
			Sample Size	1	21	9	0
	Season	M	Mean Length		578	596	
			Range		514- 650	522- 647	
			Sample Size	0	82	49	0
		F	Mean Length	536	564	572	
			Range	536- 536	502- 608	482- 616	
			Sample Size	1	80	56	0
2000 [b]	7/5 (7/5)	M	Mean Length	551	582	584	537
			Std. Error	13	3	7	-
			Range	535- 576	523- 639	513- 640	537- 537
			Sample Size	3	69	21	1
		F	Mean Length	511	553	570	623
			Std. Error	-	2	4	-
			Range	511- 511	519- 591	540- 604	623- 623
			Sample Size	1	75	25	1
	8/1 (8/1,4-5,8-9,12 14,17-18,21-22,25)	M	Mean Length	519	555	606	
			Std. Error	6	6	39	
			Range	506- 527	512- 607	567- 645	
			Sample Size	3	15	2	0
		F	Mean Length	536	550	522	
			Std. Error	14	4	12	
			Range	513- 560	512- 597	484- 556	
			Sample Size	3	28	6	0
	Season	M	Mean Length	547	581	584	537
			Range	506- 576	512- 639	513- 645	537- 537
			Sample Size	6	84	23	1
		F	Mean Length	519	553	568	623
			Range	511- 560	512- 597	484- 604	623- 623
			Sample Size	4	103	31	1
2001 [b]	Season [c]	M	Mean Length	506	564	576	
			Range	499- 521	507- 618	540- 603	
			Sample Size	3	27	5	0
		F	Mean Length	521	537	545	550
			Range	521- 521	486- 607	514- 605	550- 550
			Sample Size	1	70	11	1

Appendix D.2. Mean length (mm) of chum salmon from the District 1 commercial fishery. (page 47 of 52)

Year	Sample Dates (Stratum Dates)	Sex		Age Class 0.2	0.3	0.4	0.5
2002 [b]	Season [c]	M	Mean Length	528	567	567	
			Range	510- 559	505- 641	550- 584	
			Sample Size	7	28	2	0
		F	Mean Length	526	544	510	
			Range	484- 565	500- 582	494- 526	
			Sample Size	14	40	2	0
2003 [b]	Season [c]	M	Mean Length		545	565	
			Range		498- 602	519- 613	
			Sample Size	0	53	5	0
		F	Mean Length	502	538	527	
			Range	502- 502	479- 589	510- 552	
			Sample Size	1	56	3	0
2004 [b]	6/30 (6/30,7/2)	M	Mean Length	542	572	588	
			Std. Error	4	3	5	
			Range	511- 580	481- 614	530- 668	
			Sample Size	20	46	30	0
		F	Mean Length	528	550	559	
			Std. Error	7	4	5	
			Range	496- 557	497- 590	515- 669	
			Sample Size	8	41	32	0
	7/6 (7/6,7)	M	Mean Length	546	562	571	
			Std. Error	5	3	4	
			Range	506- 609	502- 615	528- 624	
			Sample Size	29	53	28	0
		F	Mean Length	540	550	565	
			Std. Error	6	4	4	
			Range	500- 586	496- 672	520- 619	
			Sample Size	12	41	37	0
	7/28 (7/28,30,8/2)	M	Mean Length	535	551	560	
			Std. Error	4	6	8	
			Range	465- 586	502- 610	519- 604	
			Sample Size	57	22	15	0
		F	Mean Length	523	533	546	
			Std. Error	4	4	6	
			Range	450- 583	492- 575	507- 610	
			Sample Size	36	30	18	0

Appendix D.2. Mean length (mm) of chum salmon from the District 1 commercial fishery. (page 48 of 52)

Year	Sample Dates (Stratum Dates)	Sex		Age Class 0.2	0.3	0.4	0.5
	8/3	M	Mean Length	534	562	558	
	(8/3,5,6,9,10,12,		Std. Error	4	6	6	
	13,16,17,19,20,23,		Range	470- 600	490- 630	525- 625	
	24,27,30,9/2,4,6,8)		Sample Size	40	30	16	0
		F	Mean Length	522	543	556	
			Std. Error	3	3	8	
			Range	490- 570	480- 600	510- 630	
			Sample Size	44	38	14	0
	Season	M	Mean Length	539	564	574	
			Range	465- 609	481- 630	519- 668	
			Sample Size	146	151	89	0
		F	Mean Length	526	546	560	
			Range	450- 586	480- 672	507- 669	
			Sample Size	100	150	101	0
2005 [b]	6/24	M	Mean Length		573	596	
	(6/24)		Std. Error		3	7	
			Range		510- 650	557- 627	
			Sample Size	0	93	11	0
		F	Mean Length	548	557	562	
			Std. Error	-	3	10	
			Range	548- 548	498- 608	531- 610	
			Sample Size	1	72	7	0
	6/28	M	Mean Length		571	608	
	(6/28, 30)		Std. Error		3	8	
			Range		515- 635	558- 660	
			Sample Size	0	74	13	0
		F	Mean Length		552	576	570
			Std. Error		2	13	-
			Range		510- 600	532- 621	570- 570
			Sample Size	0	94	6	1
	7/1	M	Mean Length		568	597	
	(7/1)		Std. Error		3	23	
			Range		498- 660	562- 657	
			Sample Size	0	98	4	0
		F	Mean Length	527	551	561	
			Std. Error	29	2	16	
			Range	498- 555	498- 618	511- 610	
			Sample Size	2	100	5	0

Appendix D.2. Mean length (mm) of chum salmon from the District 1 commercial fishery. (page 49 of 52)

Year	Sample Dates (Stratum Dates)	Sex		Age Class 0.2	0.3	0.4	0.5
	8/4 (8/2,4,5,8,9,11, 15,22,25,29,9/1)	M	Mean Length	510	558	549	
			Std. Error	6	4	27	
			Range	504- 515	488- 640	499- 592	
			Sample Size	2	65	3	0
		F	Mean Length	478	537	532	
			Std. Error	-	3	23	
			Range	478- 478	475- 616	488- 566	
			Sample Size	1	124	3	0
	Season	M	Mean Length	509	568	594	
			Range	504- 515	488- 660	499- 660	
			Sample Size	2	330	31	0
		F	Mean Length	520	548	560	570
			Range	478- 555	475- 618	488- 621	570- 570
			Sample Size	4	390	21	1
2006 [b]	6/26 (6/26-28)	M	Mean Length		581	588	
			Std. Error		3	4	
			Range		525- 627	518- 658	
			Sample Size	0	51	58	0
		F	Mean Length		569	571	
			Std. Error		3	4	
			Range		533- 610	518- 663	
			Sample Size	0	38	42	0
	8/1 (8/1,3,4,7,8,10,11, 14,15,17,18,21,22, 24,25,28,30)	M	Mean Length	535	561	564	
			Std. Error	-	4	6	
			Range	535- 535	500- 625	504- 653	
			Sample Size	1	48	28	0
		F	Mean Length	511	540	547	
			Std. Error	14	3	4	
			Range	486- 534	488- 617	485- 606	
			Sample Size	3	79	44	0
	Season	M	Mean Length	535	578	586	
			Range	535- 535	500- 627	504- 658	
			Sample Size	1	99	86	0
		F	Mean Length	511	560	566	
			Range	486- 534	488- 617	485- 663	
			Sample Size	3	117	86	0

Appendix D.2. Mean length (mm) of chum salmon from the District 1 commercial fishery. (page 50 of 52)

Year	Sample Dates (Stratum Dates)	Sex		Age Class 0.2	0.3	0.4	0.5
2007 [b]	8/1 (8/1-24)	M	Mean Length		547	562	536
			Range		459- 605	519- 625	504- 567
			Sample Size	0	71	19	2
	Season [c]	F	Mean Length	494	528	541	552
			Range	494- 494	487- 567	505- 585	550- 555
			Sample Size	1	81	24	3
2008 [b]	6/20 (6/20)	M	Mean Length		557	573	580
			Std. Error		5	3	10
			Range		513-611	502-636	540-628
			Sample Size	0	28	114	8
		F	Mean Length		541	554	553
			Std. Error		6	2	13
			Range		521-594	506-599	519-593
			Sample Size	0	12	61	5
	6/24 (6/24)	M	Mean Length		556	575	598
			Std. Error		3	2	20
			Range		521-590	500-633	574-637
			Sample Size	0	34	112	3
		F	Mean Length		549	564	
			Std. Error		6	3	
			Range		518-595	522-616	
			Sample Size	0	13	61	0
	6/27 (6/27)	M	Mean Length		571	590	582
			Std. Error		4	3	12
			Range		545-602	540-646	540-610
			Sample Size	0	19	68	5
		F	Mean Length		558	561	559
			Std. Error		5	2	7
			Range		519-585	525-623	523-594
			Sample Size	0	15	88	9
	8/4 (7/12,1922,30, 8/4,6,8,11,13, 15,118,20,22,25)	M	Mean Length	532	539	557	578
			Std. Error	14	5	5	19
			Range	504-551	493-610	495-632	535-624
			Sample Size	3	32	47	4
		F	Mean Length	534	524	542	538
			Std. Error	7	2	3	-
			Range	521-544	495-568	493-595	538-538
			Sample Size	3	56	64	1

Appendix D.2. Mean length (mm) of chum salmon from the District 1 commercial fishery. (page 51 of 52)

Year	Sample Dates (Stratum Dates)	Sex		Age Class 0.2	0.3	0.4	0.5
	Season	M	Mean Length	532	557	576	582
			Range	504-551	493-611	495-646	535-637
			Sample Size	3	113	341	20
		F	Mean Length	534	540	557	556
			Range	521-544	495-595	493-623	519-594
			Sample Size	3	96	274	15
2009 [b]	6/23 (6/23,26)	M	Mean Length		575	579	582
			Std. Error		3	3	21
			Range		525- 632	514- 675	532- 634
			Sample Size	0	67	78	4
		F	Mean Length	537	557	560	549
			Std. Error	-	3	3	9
			Range	537- 537	508- 619	510- 603	534- 566
			Sample Size	1	61	46	3
	7/1 (7/1)	M	Mean Length	533	574	584	586
			Std. Error	-	3	4	3
			Range	533- 533	501- 633	528- 652	578- 594
			Sample Size	1	83	40	5
		F	Mean Length		562	574	
			Std. Error		4	7	
			Range		521- 666	523- 634	
			Sample Size	0	43	15	0
	7/11 (7/11)	M	Mean Length	525	571	577	541
			Std. Error	6	2	5	-
			Range	500- 545	524- 619	508- 631	541- 541
			Sample Size	6	90	30	1
		F	Mean Length	546	550	561	563
			Std. Error	4	2	4	22
			Range	540- 554	491- 614	525- 604	541- 584
			Sample Size	3	100	27	2
	7/14 (7/14)	M	Mean Length	528	560	578	579
			Std. Error	16	3	6	18
			Range	496- 550	502- 759	521- 628	551- 614
			Sample Size	3	105	25	3
		F	Mean Length	530	543	549	567
			Std. Error	-	3	6	2
			Range	530- 530	489- 599	492- 591	563- 570
			Sample Size	1	60	20	3

Appendix D.2. Mean length (mm) of chum salmon from the District 1 commercial fishery. (page 52 of 52)

Year	Sample Dates (Stratum Dates)	Sex		Age Class 0.2	0.3	0.4	0.5
	7/18 (7/18,28,8/1,4,6, 8,11,13,16,18,22)	M	Mean Length	564	565	567	573
			Std. Error	10	3	5	6
			Range	533- 595	497- 636	525- 608	563- 585
			Sample Size	5	107	21	3
		F	Mean Length	538	540	555	537
			Std. Error	10	2	6	-
			Range	501- 593	489- 590	509- 590	537- 537
			Sample Size	8	112	16	1
	Season	M	Mean Length	548	570	579	581
			Range	496- 595	497- 759	508- 675	532- 634
			Sample Size	15	452	194	16
		F	Mean Length	538	550	561	551
			Range	501- 593	489- 666	492- 634	534- 584
			Sample Size	13	376	124	9
	Grand Total [d]	M	Mean Length	539	575	596	607
			Range	454- 615	448- 701	493- 722	520- 695
			Sample size	381	8,765	4,919	208
		F	Mean Length	529	555	570	580
			Range	466- 601	409- 730	443- 685	487- 632
			Sample size	389	10,943	4,775	127

[a] "Season" mean lengths are weighted by the commercial harvest in each stratum.

[b] Sex of all fish was confirmed by visual inspection of gonads.

[c] Sampling dates do not meet criteria for estimating escapement percentages for some or all of the strata; Season is not included in "Grand Total".

[d] "Grand Total" mean lengths are simple averages of the "Season" mean lengths.

Appendix D.3. Age and sex of chum salmon from the District 4 commercial fishery. [ab] (page 1 of 15)

Year	Sample Dates (Stratum Dates)	Sample Size	Sex	Age Class 0.2 Catch	0.2 %	0.3 Catch	0.3 %	0.4 Catch	0.4 %	0.5 Catch	0.5 %	Total Catch	Total %
1984	6/18,21	71	M	0	0.0	1,327	21.1	973	15.5	0	0.0	2,300	36.6
	(6/18,21)		F	0	0.0	2,919	46.5	1,061	16.9	0	0.0	3,980	63.4
			Subtotal	0	0.0	4,246	67.6	2,034	32.4	0	0.0	6,280	100.0
	6/26	76	M	0	0.0	2,530	25.0	1,598	15.8	0	0.0	4,127	40.8
	(6/26,28)		F	0	0.0	3,328	32.9	2,396	23.7	266	2.6	5,992	59.2
			Subtotal	0	0.0	5,858	57.9	3,994	39.5	266	2.6	10,119	100.0
	7/2	117	M	0	0.0	2,269	37.6	1,032	17.1	0	0.0	3,301	54.7
	(7/2)		F	0	0.0	2,115	35.0	567	9.4	52	0.9	2,733	45.3
			Subtotal	0	0.0	4,384	72.6	1,599	26.5	52	0.9	6,034	100.0
	7/5	65	M	0	0.0	1,022	36.9	469	16.9	0	0.0	1,490	53.8
	(7/5)		F	0	0.0	1,107	40.0	170	6.2	0	0.0	1,278	46.2
			Subtotal	0	0.0	2,129	76.9	639	23.1	0	0.0	2,768	100.0
	7/9,11	51	M	0	0.0	3,392	33.3	998	9.8	0	0.0	4,390	43.1
	(7/9,11)		F	0	0.0	4,191	41.2	1,596	15.7	0	0.0	5,787	56.9
			Subtotal	0	0.0	7,583	74.5	2,594	25.5	0	0.0	10,177	100.0
	7/13	39	M	0	0.0	4,124	48.7	217	2.6	0	0.0	4,341	51.3
	(7/13,16,18)		F	0	0.0	3,906	46.2	217	2.5	0	0.0	4,123	48.7
			Subtotal	0	0.0	8,030	94.9	434	5.1	0	0.0	8,464	100.0
	(7/23,27)	45	M	146	2.2	2,779	42.2	293	4.5	0	0.0	3,218	48.9
	7/20,23,25,27,30,		F	0	0.0	3,072	46.7	292	4.4	0	0.0	3,364	51.1
	8/1,3,6,8,10,13,		Subtotal	146	2.2	5,851	88.9	585	8.9	0	0.0	6,582	100.0
	15,17,20,24,27)												
	Season	464	M	146	0.3	17,442	34.6	5,578	11.1	0	0.0	23,167	45.9
			F	0	0.0	20,638	40.9	6,301	12.5	318	0.6	27,257	54.1
			Total	146	0.3	38,080	75.5	11,879	23.6	318	0.6	50,424	100.0
1985	6/20,24	65	M	0	0.0	1,115	18.4	1,581	26.2	0	0.0	2,696	44.6
	(6/20,24,27)		F	0	0.0	651	10.8	2,696	44.6	0	0.0	3,347	55.4
			Subtotal	0	0.0	1,766	29.2	4,277	70.8	0	0.0	6,043	100.0
	7/1	38	M	0	0.0	1,252	23.7	1,252	23.7	139	2.6	2,643	50.0
	(7/1,4)		F	0	0.0	974	18.4	1,669	31.6	0	0.0	2,643	50.0
			Subtotal	0	0.0	2,226	42.1	2,921	55.3	139	2.6	5,286	100.0
	7/8	78	M	0	0.0	870	26.9	538	16.7	0	0.0	1,408	43.6
	(7/8)		F	0	0.0	1,160	35.9	663	20.5	0	0.0	1,823	56.4
			Subtotal	0	0.0	2,030	62.8	1,201	37.2	0	0.0	3,231	100.0
	7/11	168	M	0	0.0	729	28.6	607	23.8	0	0.0	1,337	52.4
	(7/11)		F	0	0.0	669	26.2	547	21.4	0	0.0	1,215	47.6
			Subtotal	0	0.0	1,398	54.8	1,154	45.2	0	0.0	2,552	100.0
	7/15	108	M	0	0.0	823	25.0	579	17.6	0	0.0	1,401	42.6
	(7/15,8/1,5,12,24,		F	0	0.0	1,188	36.1	700	21.3	0	0.0	1,889	57.4
	16,19,21,23,26,28,		Subtotal	0	0.0	2,011	61.1	1,279	38.9	0	0.0	3,290	100.0
	30,9/2)												

Appendix D.3. Age and sex of chum salmon from the District 4 commercial fishery. [ab] (page 2 of 15)

Year	Sample Dates (Stratum Dates)	Sample Size	Sex	Age Class 0.2 Catch	0.2 %	0.3 Catch	0.3 %	0.4 Catch	0.4 %	0.5 Catch	0.5 %	Total Catch	Total %
	Season	457	M	0	0.0	4,789	23.5	4,557	22.3	139	0.7	9,486	46.5
			F	0	0.0	4,641	22.7	6,276	30.8	0	0.0	10,916	53.5
			Total	0	0.0	9,430	46.2	10,833	53.1	139	0.7	20,402	100.0
1986	6/19,23	25	M	0	0.0	2,451	28.0	2,801	32.0	0	0.0	5,252	60.0
	(6/19,23)		F	0	0.0	1,400	16.0	2,101	24.0	0	0.0	3,501	40.0
			Subtotal	0	0.0	3,851	44.0	4,902	56.0	0	0.0	8,753	100.0
	7/3	48	M	0	0.0	1,901	25.0	1,584	20.8	0	0.0	3,485	45.8
	(6/30,7/3)		F	0	0.0	2,692	35.4	1,426	18.8	0	0.0	4,118	54.2
			Subtotal	0	0.0	4,593	60.4	3,010	39.6	0	0.0	7,603	100.0
	7/7	116	M	0	0.0	703	19.0	607	16.4	0	0.0	1,311	35.3
	(7/7)		F	0	0.0	1,567	42.2	831	22.4	0	0.0	2,397	64.7
			Subtotal	0	0.0	2,270	61.2	1,438	38.8	0	0.0	3,708	100.0
	7/10	132	M	0	0.0	1,452	24.3	953	15.9	0	0.0	2,404	40.2
	(7/10,14)		F	0	0.0	2,767	46.2	816	13.6	0	0.0	3,584	59.8
			Subtotal	0	0.0	4,219	70.5	1,769	29.5	0	0.0	5,988	100.0
	7/21	77	M	0	0.0	806	22.1	474	13.0	0	0.0	1,279	35.1
	(7/17,21,31,8/4,6,		F	0	0.0	1,658	45.4	710	19.5	0	0.0	2,369	64.9
	8,11,13,15,18,20,		Subtotal	0	0.0	2,464	67.5	1,184	32.5	0	0.0	3,648	100.0
	22,27,29,9/1)												
	Season	398	M	0	0.0	7,312	24.6	6,419	21.6	0	0.0	13,731	46.2
			F	0	0.0	10,085	34.0	5,884	19.8	0	0.0	15,969	53.8
			Total	0	0.0	17,397	58.6	12,303	41.4	0	0.0	29,700	100.0
1987 [c]	(6/18)	0	M										
			F										
			Subtotal									1,162	
	(6/22)	0	M										
			F										
			Subtotal									1,051	
	(6/25)	0	M										
			F										
			Total									1,711	
	6/30	123	M	0	0.0	504	24.4	621	30.1	0	0.0	1,125	54.5
	(6/30)		F	0	0.0	487	23.6	454	21.9	0	0.0	941	45.5
			Subtotal	0	0.0	991	48.0	1,075	52.0	0	0.0	2,066	100.0
	7/4	118	M	0	0.0	332	17.0	797	40.7	0	0.0	1,129	57.6
	(7/4)		F	0	0.0	216	11.0	614	31.3	0	0.0	830	42.4
			Subtotal	0	0.0	548	28.0	1,411	72.0	0	0.0	1,959	100.0
	(8/3,6,10,13,	0	M										
	17,19,21,24,26		F										
	28,31,9/2,4)		Total									608	

Appendix D.3. Age and sex of chum salmon from the District 4 commercial fishery. [ab] (page 3 of 15)

Year	Sample Dates (Stratum Dates)	Sample Size	Sex	Age Class 0.2 Catch	0.2 %	0.3 Catch	0.3 %	0.4 Catch	0.4 %	0.5 Catch	0.5 %	Total Catch	Total %
	Season	241	M										
			F										
			Total									8,557	
1988	6/14	57	M	0	0.0	134	12.3	364	33.3	58	5.3	556	50.9
	(6/13-14)		F	0	0.0	191	17.5	345	31.6	0	0.0	536	49.1
			Subtotal	0	0.0	325	29.8	709	64.9	58	5.3	1,092	100.0
	6/17	27	M	0	0.0	125	14.8	157	18.5	31	3.7	314	37.0
	(6/16-17)		F	0	0.0	220	25.9	314	37.0	0	0.0	533	63.0
			Subtotal	0	0.0	345	40.7	471	55.6	31	3.7	847	100.0
	6/20	56	M	0	0.0	160	21.4	134	17.9	13	1.8	307	41.1
	(6/20-21)		F	0	0.0	227	30.4	186	25.0	27	3.6	439	58.9
			Subtotal	0	0.0	386	51.8	320	42.9	40	5.4	746	100.0
	6/28	58	M	0	0.0	1,785	32.8	658	12.1	0	0.0	2,443	44.8
	(6/28)		F	93	1.7	1,880	34.5	1,035	19.0	0	0.0	3,008	55.2
			Subtotal	93	1.7	3,665	67.3	1,693	31.1	0	0.0	5,449	100.0
	7/2	58	M	74	1.7	1,045	24.1	898	20.7	0	0.0	2,017	46.5
	(7/2)		F	0	0.0	1,722	39.7	599	13.8	0	0.0	2,320	53.5
			Subtotal	74	1.7	2,767	63.8	1,496	34.5	0	0.0	4,337	100.0
	7/5	52	M	0	0.0	1,017	30.8	1,206	36.5	63	1.9	2,286	69.2
	(7/5)		F	0	0.0	573	17.3	381	11.5	63	1.9	1,017	30.8
			Subtotal	0	0.0	1,590	48.1	1,587	48.0	127	3.8	3,303	100.0
	7/8	53	M	140	3.8	1,454	39.6	415	11.3	0	0.0	2,009	54.7
	(7/8)		F	0	0.0	1,179	32.1	415	11.3	70	1.9	1,663	45.3
			Subtotal	140	3.8	2,633	71.7	830	22.6	70	1.9	3,672	100.0
	7/11	59	M	0	0.0	1,146	39.0	250	8.5	0	0.0	1,396	47.5
	(7/11)		F	0	0.0	1,246	42.4	299	10.2	0	0.0	1,544	52.5
			Subtotal	0	0.0	2,392	81.4	548	18.7	0	0.0	2,940	100.0
	7/14	57	M	0	0.0	705	40.4	429	24.6	0	0.0	1,135	64.9
	(7/14)		F	31	1.8	490	28.1	92	5.3	0	0.0	613	35.1
			Subtotal	31	1.8	1,196	68.4	521	29.8	0	0.0	1,748	100.0
	7/18	54	M	0	0.0	1,444	53.7	99	3.7	51	1.9	1,594	59.3
	(7/18,21)		F	0	0.0	946	35.2	150	5.6	0	0.0	1,095	40.7
			Subtotal	0	0.0	2,390	88.8	249	9.2	51	1.9	2,690	100.0
	7/25	42	M	0	0.0	297	26.2	0	0.0	0	0.0	297	26.2
	(7/25,27)		F	54	4.8	674	59.5	80	7.1	27	2.4	836	73.8
			Subtotal	54	4.8	971	85.7	80	7.1	27	2.4	1,133	100.0
	8/1,3	20	M	0	0.0	316	25.0	63	5.0	0	0.0	379	30.0
	(7/31,8/1,3,5,8,		F	0	0.0	884	70.0	0	0.0	0	0.0	884	70.0
	10,12,15,17,19,22,		Subtotal	0	0.0	1,200	95.0	63	5.0	0	0.0	1,263	100.0
	24,26,29,31,9/5,7)												
	Season	593	M	213	0.7	9,629	33.0	4,671	16.0	217	0.7	14,731	50.4
			F	178	0.6	10,231	35.0	3,896	13.3	187	0.6	14,491	49.6
			Total	391	1.3	19,860	68.0	8,567	29.3	404	1.4	29,220	100.0

Appendix D.3. Age and sex of chum salmon from the District 4 commercial fishery. [ab] (page 4 of 15)

Year	Sample Dates (Stratum Dates)	Sample Size	Sex	Age Class 0.2 Catch	0.2 %	0.3 Catch	0.3 %	0.4 Catch	0.4 %	0.5 Catch	0.5 %	Total Catch	Total %
1989	6/23	90	M	0	0.0	588	12.2	1,497	31.1	107	2.2	2,192	45.6
	(6/15,19,23)		F	0	0.0	1,120	23.3	1,390	28.9	107	2.2	2,617	54.4
			Subtotal	0	0.0	1,709	35.5	2,887	60.0	214	4.4	4,809	100.0
	6/26	79	M	0	0.0	194	12.7	407	26.6	0	0.0	601	39.3
	(6/26)		F	0	0.0	503	32.9	425	27.8	0	0.0	928	60.7
			Subtotal	0	0.0	697	45.6	832	54.4	0	0.0	1,529	100.0
	6/30	74	M	0	0.0	863	17.6	1,456	29.7	0	0.0	2,319	47.3
	(6/30)		F	0	0.0	794	16.2	1,790	36.5	0	0.0	2,584	52.7
			Subtotal	0	0.0	1,657	33.8	3,246	66.2	0	0.0	4,903	100.0
	7/3	71	M	0	0.0	3,083	26.8	2,428	21.1	0	0.0	5,511	47.9
	(7/3,5,7)		F	0	0.0	2,428	21.1	3,405	29.6	161	1.4	5,994	52.1
			Subtotal	0	0.0	5,511	47.9	5,833	50.7	161	1.4	11,505	100.0
	7/12	138	M	0	0.0	2,400	27.5	1,328	15.2	63	0.7	3,790	43.5
	(7/10,12,14)		F	0	0.0	2,903	33.3	1,961	22.5	63	0.7	4,927	56.5
			Subtotal	0	0.0	5,303	60.8	3,289	37.7	126	1.4	8,717	100.0
	7/18	136	M	0	0.0	1,477	23.5	1,200	19.1	0	0.0	2,677	42.6
	(7/18,21)		F	0	0.0	2,036	32.4	1,571	25.0	0	0.0	3,607	57.4
			Subtotal	0	0.0	3,513	55.9	2,771	44.1	0	0.0	6,284	100.0
	7/24	79	M	0	0.0	177	35.4	158	31.6	0	0.0	335	67.1
	(7/24)		F	0	0.0	107	21.5	57	11.4	0	0.0	164	32.9
			Subtotal	0	0.0	284	56.9	215	43.0	0	0.0	499	100.0
	7/27	36	M	0	0.0	511	44.4	415	36.1	0	0.0	926	80.6
	(7/27,31,8/2,4,7,		F	0	0.0	128	11.1	95	8.3	0	0.0	223	19.4
	9,11,14,16,18,		Subtotal	0	0.0	638	55.6	511	44.4	0	0.0	1,149	100.0
	21,23,25,9/1,8)												
	Season	703	M	0	0.0	9,293	23.6	8,888	22.6	170	0.4	18,351	46.6
			F	0	0.0	10,019	25.4	10,695	27.1	331	0.8	21,044	53.4
			Total	0	0.0	19,312	49.0	19,583	49.7	500	1.3	39,395	100.0
1990	6/14	74	M	0	0.0	603	28.4	488	23.0	0	0.0	1,091	51.4
	(6/14)		F	0	0.0	546	25.7	488	22.9	0	0.0	1,034	48.6
			Subtotal	0	0.0	1,149	54.1	976	45.9	0	0.0	2,125	100.0
	6/18,21	73	M	0	0.0	1,325	21.9	1,325	21.9	0	0.0	2,649	43.8
	(6/18,21,25)		F	0	0.0	2,318	38.4	993	16.5	83	1.4	3,395	56.2
			Subtotal	0	0.0	3,643	60.3	2,318	38.4	83	1.4	6,044	100.0
	7/2	44	M	0	0.0	1,435	31.8	922	20.5	205	4.5	2,562	56.8
	(7/2)		F	0	0.0	1,332	29.6	615	13.6	0	0.0	1,947	43.2
			Subtotal	0	0.0	2,767	61.4	1,537	34.1	205	4.5	4,509	100.0
	7/7	77	M	117	1.3	3,271	36.4	934	10.4	0	0.0	4,322	48.1
	(7/7)		F	0	0.0	3,972	44.1	701	7.8	0	0.0	4,673	51.9
			Subtotal	117	1.3	7,243	80.5	1,635	18.2	0	0.0	8,995	100.0
	7/9	80	M	0	0.0	4,244	32.5	1,143	8.8	0	0.0	5,387	41.3
	(7/9,11,13)		F	0	0.0	6,693	51.3	979	7.5	0	0.0	7,672	58.7
			Subtotal	0	0.0	10,937	83.8	2,122	16.3	0	0.0	13,059	100.0

Appendix D.3. Age and sex of chum salmon from the District 4 commercial fishery. [ab] (page 5 of 15)

Year	Sample Dates (Stratum Dates)	Sample Size	Sex	Age Class 0.2 Catch	0.2 %	0.3 Catch	0.3 %	0.4 Catch	0.4 %	0.5 Catch	0.5 %	Total Catch	Total %
	7/20	76	M	0	0.0	3,032	40.8	489	6.6	0	0.0	3,521	47.4
	(7/16,19-21)		F	0	0.0	3,424	46.0	489	6.6	0	0.0	3,913	52.6
			Subtotal	0	0.0	6,456	86.8	978	13.2	0	0.0	7,434	100.0
	7/25, 27	95	M	75	2.1	892	25.3	75	2.1	0	0.0	1,040	29.5
	(7/23-28)		F	74	2.1	2,118	60.0	297	8.4	0	0.0	2,490	70.5
			Subtotal	149	4.2	3,010	85.3	372	10.5	0	0.0	3,530	100.0
	7/30,8/1	99	M	20	1.0	776	38.4	61	3.0	20	1.0	878	43.4
	(7/30,8/1-3,6,8,13,		F	82	4.1	918	45.4	143	7.1	0	0.0	1,143	56.6
	16,18,20,23,27)		Subtotal	102	5.1	1,694	83.8	204	10.1	20	1.0	2,021	100.0
	Season	618	M	212	0.5	15,577	32.6	5,437	11.4	225	0.4	21,451	45.0
			F	156	0.3	21,321	44.7	4,706	9.9	83	0.2	26,266	55.0
			Total	368	0.8	36,898	77.3	10,143	21.3	308	0.6	47,717	100.0
1991	7/1	53	M	0	0.0	1,772	30.2	774	13.2	0	0.0	2,546	43.4
	(6/13,20,24,27,7/1)		F	111	1.9	2,323	39.6	886	15.1	0	0.0	3,321	56.6
			Subtotal	111	1.9	4,095	69.8	1,660	28.3	0	0.0	5,867	100.0
	7/4	29	M	0	0.0	721	27.6	721	27.6	0	0.0	1,442	55.2
	(7/4)		F	0	0.0	629	24.1	541	20.7	0	0.0	1,170	44.8
			Subtotal	0	0.0	1,350	51.7	1,262	48.3	0	0.0	2,612	100.0
	7/6	22	M	0	0.0	897	40.9	298	13.6	0	0.0	1,195	54.5
	(7/6)		F	0	0.0	997	45.5	0	0.0	0	0.0	997	45.5
			Subtotal	0	0.0	1,894	86.4	298	13.6	0	0.0	2,192	100.0
	7/8	74	M	0	0.0	741	24.3	702	23.0	0	0.0	1,443	47.3
	(7/8)		F	0	0.0	906	29.7	702	23.0	0	0.0	1,607	52.7
			Subtotal	0	0.0	1,647	54.0	1,403	46.0	0	0.0	3,050	100.0
	7/11	75	M	0	0.0	7,627	34.7	3,803	17.3	0	0.0	11,430	52.0
	(7/11,13,15)		F	286	1.3	6,748	30.7	3,517	16.0	0	0.0	10,550	48.0
			Subtotal	286	1.3	14,375	65.4	7,319	33.3	0	0.0	21,980	100.0
	7/19	80	M	0	0.0	4,651	42.5	688	6.3	0	0.0	5,338	48.8
	(7/17,19)		F	0	0.0	4,793	43.8	819	7.5	0	0.0	5,612	51.3
			Subtotal	0	0.0	9,444	86.3	1,506	13.8	0	0.0	10,948	100.0
	7/24	69	M	46	1.4	1,035	31.9	188	5.8	0	0.0	1,269	39.1
	(7/22,24)		F	46	1.4	1,552	47.8	377	11.6	0	0.0	1,975	60.9
			Subtotal	92	2.8	2,586	79.7	565	17.4	0	0.0	3,244	100.0
	7/26	83	M	17	1.2	418	28.9	17	1.2	0	0.0	453	31.3
	(7/26)		F	17	1.2	907	62.7	69	4.8	0	0.0	993	68.7
			Subtotal	35	2.4	1,325	91.6	87	6.0	0	0.0	1,446	100.0
	7/29	77	M	0	0.0	477	33.8	128	9.1	0	0.0	605	42.9
	(7/29)		F	36	2.6	697	49.4	73	5.2	0	0.0	807	57.1
			Subtotal	36	2.6	1,175	83.2	201	14.3	0	0.0	1,412	100.0
	7/31	68	M	0	0.0	156	23.5	39	5.9	0	0.0	196	29.4
	(7/31)		F	10	1.5	372	55.9	88	13.2	0	0.0	469	70.6
			Subtotal	10	1.5	528	79.4	127	19.1	0	0.0	665	100.0
	8/2	26	M	0	0.0	249	23.1	0	0.0	0	0.0	249	23.1
	(8/2,5,9,14,16,19,		F	0	0.0	828	76.9	0	0.0	0	0.0	828	76.9
	21,23,26,28,9/2)		Subtotal	0	0.0	1,077	100.0	0	0.0	0	0.0	1,077	100.0

Appendix D.3. Age and sex of chum salmon from the District 4 commercial fishery. [ab] (page 6 of 15)

Year	Sample Dates (Stratum Dates)	Sample Size	Sex	Age Class 0.2 Catch	0.2 %	0.3 Catch	0.3 %	0.4 Catch	0.4 %	0.5 Catch	0.5 %	Total Catch	Total %
	Season	656	M	63	0.1	18,743	34.4	7,358	13.5	0	0.0	26,165	48.0
			F	507	0.9	20,752	38.1	7,071	13.0	0	0.0	28,330	52.0
			Total	570	1.0	39,496	72.5	14,429	26.5	0	0.0	54,493	100.0
1992	6/18	53	M	0	0.0	334	7.5	1,175	26.4	169	3.8	1,678	37.7
	(6/15,18)		F	0	0.0	85	1.9	2,688	60.4	0	0.0	2,772	62.3
			Subtotal	0	0.0	418	9.4	3,863	86.8	169	3.8	4,450	100.0
	6/29	128	M	0	0.0	2,424	11.7	6,796	32.8	0	0.0	9,220	44.5
	(6/24,29,7/1)		F	0	0.0	4,049	19.5	7,447	35.9	0	0.0	11,495	55.5
			Subtotal	0	0.0	6,473	31.2	14,243	68.7	0	0.0	20,720	100.0
	7/6	184	M	0	0.0	4,769	18.5	8,971	34.8	284	1.1	14,024	54.4
	(7/3,6,7,8,10)		F	0	0.0	3,635	14.1	7,708	29.9	412	1.6	11,755	45.6
			Subtotal	0	0.0	8,404	32.6	16,679	64.7	696	2.7	25,779	100.0
	7/15	181	M	135	0.6	4,577	20.4	5,205	23.2	135	0.6	10,050	44.8
	(7/13,15,17,20,22,		F	0	0.0	6,071	27.1	6,183	27.6	135	0.6	12,388	55.2
	24,27,29,31,8/3,5,		Subtotal	135	0.6	10,647	47.5	11,387	50.8	269	1.2	22,434	100.0
	7,10,12,14,17,19,21												
	24,26,28,31,9/2,4)												
	Season	546	M	135	0.2	12,104	16.5	22,147	30.2	587	0.8	34,972	47.7
			F	0	0.0	13,839	18.9	24,025	32.7	547	0.7	38,411	52.3
			Total	135	0.2	25,942	35.4	46,172	62.9	1,134	1.5	73,383	100.0
1993	6/28	69	M	0	0.0	923	17.4	1,613	30.4	308	5.8	2,844	53.6
	(6/21,24,28)		F	0	0.0	617	11.6	1,307	24.6	537	10.1	2,461	46.4
			Subtotal	0	0.0	1,540	29.0	2,920	55.0	845	15.9	5,306	100.0
	6/30	72	M	0	0.0	348	13.9	590	23.6	278	11.1	1,215	48.6
	(6/30)		F	0	0.0	243	9.7	798	31.9	243	9.7	1,285	51.4
			Subtotal	0	0.0	591	23.6	1,389	55.5	521	20.8	2,501	100.0
	7/2	49	M	0	0.0	639	8.2	2,235	28.6	319	4.1	3,193	40.8
	(7/2,5)		F	0	0.0	1,119	14.3	2,394	30.6	1,119	14.3	4,631	59.2
			Subtotal	0	0.0	1,758	22.5	4,629	59.2	1,438	18.4	7,823	100.0
	7/9, 12	92	M	122	1.1	2,407	21.7	2,894	26.1	0	0.0	5,423	48.9
	(7/7,9,12)		F	122	1.1	2,773	25.0	2,174	19.6	599	5.4	5,667	51.1
			Subtotal	244	2.2	5,179	46.7	5,068	45.7	599	5.4	11,090	100.0
	7/16	116	M	128	0.9	4,533	31.9	2,328	16.4	366	2.6	7,355	51.7
	(7/14,16,19,21,23,26,		F	0	0.0	3,684	25.9	2,944	20.7	242	1.7	6,870	48.3
	28,30,8/2,6,9,11,16,		Subtotal	128	0.9	8,217	57.8	5,272	37.1	607	4.3	14,223	100.0
	18,20,23,25,28,9/3)												
	Season	398	M	250	0.6	8,849	21.6	9,661	23.6	1,270	3.1	20,031	48.9
			F	122	0.3	8,435	20.6	9,617	23.5	2,740	6.7	20,914	51.1
			Total	372	0.9	17,285	42.2	19,278	47.1	4,010	9.8	40,943	100.0
1994 [c]	(6/15,20)	0	M										
			F										
			Subtotal									539	

Appendix D.3. Age and sex of chum salmon from the District 4 commercial fishery. [ab] (page 7 of 15)

Year	Sample Dates (Stratum Dates)	Sample Size	Sex	Age Class 0.2 Catch	0.2 %	0.3 Catch	0.3 %	0.4 Catch	0.4 %	0.5 Catch	0.5 %	Total Catch	Total %
	(7/1)	0	M										
			F										
			Subtotal									13,544	
	(7/4)	0	M										
			F										
			Subtotal									3,120	
	7/6	107	M	0	0.0	1,417	34.6	1,073	26.2	37	0.9	2,526	61.7
	(7/6)		F	0	0.0	917	22.4	651	15.9	0	0.0	1,568	38.3
			Subtotal	0	0.0	2,334	57.0	1,724	42.1	37	0.9	4,094	100.0
	7/8	69	M	0	0.0	2,281	27.5	1,203	14.5	0	0.0	3,484	42.0
	(7/8)		F	0	0.0	3,611	43.5	1,080	13.0	119	1.4	4,810	58.0
			Subtotal	0	0.0	5,893	71.0	2,283	27.5	119	1.4	8,296	100.0
	7/11	112	M	0	0.0	661	28.6	351	15.2	20	0.9	1,032	44.6
	(7/11)		F	0	0.0	724	31.3	557	24.1	0	0.0	1,281	55.4
			Subtotal	0	0.0	1,385	59.9	908	39.3	20	0.9	2,313	100.0
	7/13	259	M	0	0.0	3,438	35.1	1,175	12.0	39	0.4	4,652	47.5
	(7/13)		F	0	0.0	3,780	38.6	1,361	13.9	0	0.0	5,142	52.5
			Subtotal	0	0.0	7,218	73.7	2,537	25.9	39	0.4	9,794	100.0
	(7/15)	0	M										
			F										
			Subtotal									5,791	
	(7/18)	0	M										
			F										
			Subtotal									3,023	
	(7/20)	0	M										
			F										
			Subtotal									4,684	
	(7/22)	0	M										
			F										
			Subtotal									2,696	
	(7/25)	0	M										
			F										
			Subtotal									1,103	
	(7/27,29,8/1,3,	0	M										
	5,8,10,12,15,19,		F										
	22,24,26,31,9/2)		Subtotal									2,304	
	Season	547	M										
			F										
			Total									61,301	
1995	6/24	57	M	0	0.0	1,822	7.0	7,745	29.8	0	0.0	9,566	36.8
	(6/13,17,20,24,		F	460	1.8	5,469	21.1	10,480	40.4	0	0.0	16,408	63.2
	26,29,7/3)		Subtotal	460	1.8	7,290	28.1	18,224	70.2	0	0.0	25,967	100.0
	7/12	181	M	1,070	2.8	7,061	18.2	4,498	11.6	217	0.6	12,847	33.1
	(7/5,7,10,12,14)		F	2,567	6.6	15,864	40.9	7,283	18.8	217	0.6	25,931	66.9
			Subtotal	3,637	9.4	22,926	59.1	11,781	30.4	434	1.1	38,778	100.0

Appendix D.3. Age and sex of chum salmon from the District 4 commercial fishery. [ab] (page 8 of 15)

Year	Sample Dates (Stratum Dates)	Sample Size	Sex	Age Class 0.2 Catch	0.2 %	0.3 Catch	0.3 %	0.4 Catch	0.4 %	0.5 Catch	0.5 %	Total Catch	Total %
	7/17	174	M	198	3.4	765	13.2	332	5.7	34	0.6	1,329	23.0
	(7/17,19)		F	631	10.9	2,297	39.7	1,528	26.4	0	0.0	4,455	77.0
			Subtotal	828	14.3	3,061	52.9	1,860	32.2	34	0.6	5,785	100.0
	7/21	186	M	707	6.5	3,057	28.0	1,703	15.6	58	0.5	5,525	50.5
	(7/19,21,24,26,28,31,		F	588	5.4	3,174	29.0	1,528	14.0	118	1.1	5,408	49.5
	8/2,4,7,9,11,14,16,		Subtotal	1,295	11.9	6,230	57.0	3,231	29.6	176	1.6	10,932	100.0
	18,21,23,25,28,30,9/1)												
	Season	598	M	1,975	2.4	12,704	15.6	14,278	17.5	309	0.4	29,267	35.9
			F	4,245	5.2	26,803	32.9	20,818	25.6	335	0.4	52,202	64.1
			Total	6,221	7.6	39,507	48.5	35,097	43.1	644	0.8	81,462	100.0
1996 [c]	(6/22)	0	M										
			F										
			Subtotal									6,984	
	(6/25)	0	M										
			F										
			Subtotal									6,662	
	(6/29)	0	M										
			F										
			Subtotal									8,441	
	(7/3)	0	M										
			F										
			Subtotal									10,073	
	(7/6)	0	M										
			F										
			Subtotal									5,073	
	(7/9)	0	M										
			F										
			Subtotal									8,768	
	7/11	199	M	0	0.0	2,755	34.7	359	4.5	0	0.0	3,115	39.2
	(7/11)		F	0	0.0	4,153	52.3	639	8.0	40	0.5	4,832	60.8
			Subtotal	0	0.0	6,909	86.9	998	12.6	40	0.5	7,947	100.0
	(7/13)	0	M										
			F										
			Subtotal									4,748	
	7/15,17	217	M	0	0.0	5,484	36.9	548	3.7	0	0.0	6,032	40.6
	(7/15,17)		F	0	0.0	7,952	53.5	823	5.5	69	0.5	8,843	59.4
			Subtotal	0	0.0	13,435	90.3	1,371	9.2	69	0.5	14,875	100.0
	(7/20)	0	M										
			F										
			Subtotal									3,355	
	7/24	199	M	8	0.5	537	34.2	71	4.5	0	0.0	616	39.2
	(7/24)		F	8	0.5	860	54.8	79	5.0	8	0.5	955	60.8
			Subtotal	16	1.0	1,397	88.9	150	9.5	8	0.5	1,571	100.0

Appendix D.3. Age and sex of chum salmon from the District 4 commercial fishery. [ab] (page 9 of 15)

Year	Sample Dates (Stratum Dates)	Sample Size	Sex	Age Class 0.2 Catch	0.2 %	0.3 Catch	0.3 %	0.4 Catch	0.4 %	0.5 Catch	0.5 %	Total Catch	Total %
	(7/27)	0	M										
			F										
			Subtotal									1,885	
	(7/29)	0	M										
			F										
			Subtotal									1,034	
	(7/31,8/2,5,7,	0	M										
	9,12,14,16,		F										
	19,21,23,26)		Subtotal									1,589	
	Season	615	M										
			F										
			Total									83,005	
1997 [d]	6/19	170	M	0	0.0	81	7.1	509	44.7	7	0.6	596	52.4
	(6/13,16,19)		F	0	0.0	60	5.3	483	42.4	0	0.0	543	47.6
			Subtotal	0	0.0	141	12.4	992	87.1	7	0.6	1,139	100.0
	6/26	169	M	0	0.0	457	9.5	1,913	39.7	29	0.6	2,399	49.7
	(6/23,26,30)		F	0	0.0	371	7.7	2,028	42.0	28	0.6	2,427	50.3
			Subtotal	0	0.0	828	17.2	3,941	81.7	57	1.2	4,826	100.0
	7/7	191	M	73	0.5	1,974	14.1	4,460	31.9	73	0.5	6,580	47.1
	(7/2,4,7,9)		F	0	0.0	2,339	16.8	4,971	35.6	73	0.5	7,384	52.9
			Subtotal	73	0.5	4,313	30.9	9,431	67.5	146	1.0	13,964	100.0
	7/11	197	M	63	1.5	839	20.3	755	18.3	105	2.6	1,761	42.6
	(7/11,14)		F	0	0.0	1,069	25.9	1,258	30.4	42	1.0	2,370	57.4
			Subtotal	63	1.5	1,908	46.2	2,013	48.7	147	3.6	4,131	100.0
	7/18	198	M	39	0.5	1,620	21.2	1,736	22.7	0	0.0	3,395	44.4
	(7/16,18,21)		F	38	0.5	1,852	24.3	2,354	30.8	0	0.0	4,244	55.6
			Subtotal	77	1.0	3,472	45.5	4,090	53.5	0	0.0	7,639	100.0
	7/25	143	M	172	3.5	1,171	23.8	826	16.8	35	0.7	2,203	44.8
	(7/23,25,28,30)		F	103	2.1	1,652	33.5	930	18.9	34	0.7	2,720	55.2
			Subtotal	275	5.6	2,823	57.3	1,756	35.7	69	1.4	4,923	100.0
	8/6	153	M	24	1.3	357	19.6	214	11.8	0	0.0	596	32.7
	(8/1,6,8,13,15,18,		F	47	2.6	560	30.7	608	33.3	12	0.7	1,227	67.3
	20,22,25,28,9/3)		Subtotal	71	3.9	917	50.3	822	45.1	12	0.7	1,823	100.0
	Season	1,221	M	371	1.0	6,498	16.9	10,414	27.1	248	0.6	17,531	45.6
			F	189	0.5	7,905	20.6	12,630	32.8	190	0.5	20,914	54.4
			Total	560	1.5	14,403	37.5	23,044	59.9	438	1.1	38,445	100.0
1998 [d]	6/15	52	M	0	0.0	230	48.1	111	23.1	0	0.0	341	71.2
	(6/15,18)		F	0	0.0	65	13.4	64	13.4	9	1.9	138	28.8
			Subtotal	0	0.0	295	61.5	175	36.5	9	1.9	479	100.0
	6/22	127	M	0	0.0	2,114	55.1	333	8.7	30	0.8	2,477	64.6
	(6/22,25)		F	0	0.0	1,027	26.8	332	8.6	0	0.0	1,359	35.4
			Subtotal	0	0.0	3,141	81.9	665	17.3	30	0.8	3,836	100.0

Appendix D.3. Age and sex of chum salmon from the District 4 commercial fishery. [ab] (page 10 of 15)

Year	Sample Dates (Stratum Dates)	Sample Size	Sex	Age Class 0.2 Catch	0.2 %	0.3 Catch	0.3 %	0.4 Catch	0.4 %	0.5 Catch	0.5 %	Total Catch	Total %
	7/2	193	M	0	0.0	5,642	41.5	846	6.2	71	0.5	6,559	48.2
	(6/29,7/2,6)		F	0	0.0	5,995	44.0	917	6.8	141	1.1	7,053	51.8
			Subtotal	0	0.0	11,637	85.5	1,763	13.0	212	1.6	13,612	100.0
	7/10	195	M	0	0.0	5,244	37.4	359	2.6	0	0.0	5,604	40.0
	(7/8,10,13)		F	0	0.0	7,687	54.9	719	5.1	0	0.0	8,405	60.0
			Subtotal	0	0.0	12,931	92.3	1,078	7.7	0	0.0	14,009	100.0
	7/17	196	M	0	0.0	2,430	28.0	265	3.0	0	0.0	2,696	31.1
	(7/15,17,20)		F	177	0.0	5,480	63.3	309	3.6	0	0.0	5,965	68.9
			Subtotal	177	0.0	7,910	91.3	574	6.6	0	0.0	8,661	100.0
	7/27	94	M	48	0.1	957	21.3	48	1.1	0	0.0	1,053	23.4
	(7/22,24,27,29,31,		F	96	0.1	3,254	72.3	48	1.0	48	1.1	3,445	76.6
	8/3,5,7,10,12,14,		Subtotal	144	0.2	4,211	93.6	96	2.1	48	1.1	4,498	100.0
	17,21,24,26,28,31)												
	Season	857	M	48	0.1	16,619	36.9	1,962	4.3	101	0.2	18,729	41.5
			F	272	0.6	23,506	52.1	2,389	5.3	198	0.5	26,366	58.5
			Total	320	0.7	40,125	89.0	4,351	9.6	299	0.7	45,095	100.0
1999 [d]	6/24	196	M	0	0.0	798	35.2	601	26.5	12	0.5	1,410	62.2
	(6/21,24)		F	0	0.0	404	17.9	451	19.9	0	0.0	856	37.8
			Subtotal	0	0.0	1,202	53.1	1,052	46.4	12	0.5	2,266	100.0
	6/28	206	M	0	0.0	2,591	29.6	2,124	24.3	0	0.0	4,715	53.9
	(6/28,7/1)		F	0	0.0	1,996	22.8	2,039	23.3	0	0.0	4,035	46.1
			Subtotal	0	0.0	4,587	52.4	4,163	47.6	0	0.0	8,750	100.0
	7/9	207	M	0	0.0	4,446	31.9	1,684	12.1	0	0.0	6,130	44.0
	(7/5,9,14)		F	0	0.0	5,794	41.5	1,954	14.0	67	0.5	7,815	56.0
			Subtotal	0	0.0	10,240	73.4	3,638	26.1	67	0.5	13,945	100.0
	7/19	205	M	64	0.5	3,395	25.9	384	2.9	0	0.0	3,843	29.3
	(7/16,19,21,23,		F	0	0.0	7,237	55.1	2,050	15.6	0	0.0	9,287	70.7
	26,28,30,8/2,4,		Subtotal	64	0.5	10,632	81.0	2,434	18.5	0	0.0	13,130	100.0
	11,16,18)												
	Season	814	M	64	0.2	11,230	29.5	4,793	12.6	12	0.0	16,099	42.3
			F	0	0.0	15,432	40.5	6,493	17.0	67	0.2	21,992	57.7
			Total	64	0.2	26,662	70.0	11,286	29.6	79	0.2	38,091	100.0
2000 [d]	6/15	103	M	0	0.0	30	7.7	172	44.7	4	1.0	206	53.4
	(6/15)		F	0	0.0	4	1.0	172	44.6	3	0.9	179	46.6
			Subtotal	0	0.0	34	8.7	344	89.3	7	1.9	385	100.0
	6/19	150	M	0	0.0	495	17.3	1,294	45.3	0	0.0	1,789	62.7
	(6/19,22)		F	0	0.0	304	10.7	704	24.7	57	2.0	1,065	37.3
			Subtotal	0	0.0	799	28.0	1,998	70.0	57	2.0	2,854	100.0
	6/26	199	M	33	0.5	1,680	25.6	1,976	30.2	33	0.5	3,722	56.8
	(6/26,29)		F	0	0.0	1,054	16.1	1,746	26.6	33	0.5	2,832	43.2
			Subtotal	33	0.5	2,734	41.7	3,722	56.8	66	1.0	6,554	100.0

Appendix D.3. Age and sex of chum salmon from the District 4 commercial fishery. [ab] (page 11 of 15)

Year	Sample Dates (Stratum Dates)	Sample Size	Sex	Age Class 0.2 Catch	0.2 %	0.3 Catch	0.3 %	0.4 Catch	0.4 %	0.5 Catch	0.5 %	Total Catch	Total %
	7/6	196	M	0	0.0	2,124	20.4	1,805	17.4	0	0.0	3,928	37.8
	(7/3,6,8)		F	0	0.0	3,769	36.2	2,707	26.0	0	0.0	6,477	62.2
			Subtotal	0	0.0	5,893	56.6	4,512	43.4	0	0.0	10,405	100.0
	7/13	191	M	0	0.0	1,551	26.7	1,064	18.3	31	0.5	2,645	45.5
	(7/11,13,15)		F	0	0.0	2,158	37.2	973	16.8	30	0.5	3,161	54.5
			Subtotal	0	0.0	3,709	63.9	2,037	35.1	61	1.0	5,806	100.0
	7/21	204	M	89	0.0	1,093	24.0	491	10.8	0	0.0	1,672	36.8
	(7/17,21,8/29)		F	22	0.5	2,230	49.0	624	13.7	0	0.0	2,877	63.2
			Subtotal	111	0.5	3,323	73.0	1,115	24.5	0	0.0	4,549	100.0
	Season	1,043	M	122	0.4	6,971	22.8	6,801	22.2	67	0.2	13,961	45.7
			F	22	0.1	9,519	31.2	6,926	22.7	124	0.4	16,592	54.3
			Total	144	0.5	16,490	54.0	13,727	44.9	191	0.6	30,553	100.0
2001 [d]	7/5	185	M	0	0.0	1,687	19.4	1,828	21.1	0	0.0	3,515	40.5
	(6/21,25,28,7/2,5)		F	47	0.5	1,922	22.2	3,187	36.7	0	0.0	5,155	59.5
			Subtotal	47	0.5	3,609	41.6	5,015	57.8	0	0.0	8,670	100.0
	7/12	195	M	0	0.0	1,412	25.1	1,153	20.5	0	0.0	2,565	45.6
	(7/9,12,16)		F	0	0.0	1,730	30.8	1,297	23.1	29	0.5	3,056	54.4
			Subtotal	0	0.0	3,142	55.9	2,450	43.6	29	0.5	5,621	100.0
	7/23	196	M	0	0.0	625	21.5	357	12.2	0	0.0	983	33.7
	(7/18,23,8/1,3,6,		F	30	1.0	1,206	41.3	700	24.0	0	0.0	1,935	66.3
	10,13,15,18,20,		Subtotal	30	1.0	1,831	62.8	1,057	36.2	0	0.0	2,918	100.0
	22,24)												
	Season	576	M	0	0.0	3,725	21.7	3,338	19.4	0	0.0	7,063	41.0
			F	77	0.4	4,857	28.2	5,184	30.1	29	0.2	10,146	59.0
			Total	77	0.4	8,582	49.9	8,522	49.5	29	0.2	17,209	100.0
2002 [d]	7/8	178	M	386	1.7	4,895	21.3	2,447	10.7	515	2.2	8,244	36.0
	(6/14,17,20,26,7/1,		F	129	0.5	7,858	34.3	6,570	28.6	129	0.6	14,686	64.0
	3,5,8,10)		Subtotal	515	2.2	12,753	55.6	9,017	39.3	644	2.8	22,930	100.0
	7/17	178	M	159	2.8	1,270	22.5	603	10.7	0	0.0	2,032	36.0
	(7/12,15,17,19)		F	285	5.1	2,286	40.4	1,048	18.5	0	0.0	3,619	64.0
			Subtotal	444	7.9	3,556	62.9	1,651	29.2	0	0.0	5,651	100.0
	8/1	93	M	109	14.0	143	18.3	92	11.8	8	1.1	352	45.2
	(8/1,5,7,9,12,14,16,		F	109	14.0	268	34.4	51	6.5	0	0.0	428	54.8
	19,21,23,26)		Subtotal	218	28.0	411	52.7	143	18.3	8	1.1	780	100.0
	Season	449	M	654	2.2	6,308	21.5	3,143	10.7	523	1.8	10,629	36.2
			F	524	1.8	10,412	35.4	7,668	26.1	129	0.4	18,732	63.8
			Total	1,178	4.0	16,720	56.9	10,811	36.8	652	2.2	29,361	100.0
2003 [d]	7/7	73	M	0	0.0	2,819	37.0	1,149	15.1	0	0.0	3,968	52.1
	(6/14,17,19,		F	0	0.0	3,028	39.7	522	6.8	104	1.4	3,654	47.9
	24,7/1,4,7)		Subtotal	0	0.0	5,847	76.7	1,671	21.9	104	1.4	7,622	100.0

Appendix D.3. Age and sex of chum salmon from the District 4 commercial fishery. [ab] (page 12 of 15)

Year	Sample Dates (Stratum Dates)	Sample Size	Sex	Age Class 0.2 Catch	0.2 %	0.3 Catch	0.3 %	0.4 Catch	0.4 %	0.5 Catch	0.5 %	Total Catch	Total %
	7/13	74	M	148	1.4	4,567	41.9	0	0.0	0	0.0	4,714	43.2
	(7/9,11,14)		F	147	1.3	5,745	52.7	147	1.4	147	1.4	6,187	56.8
			Subtotal	295	2.7	10,312	94.6	147	1.4	147	1.4	10,901	100.0
	7/16	96	M	0	0.0	4,186	44.8	487	5.2	0	0.0	4,673	50.0
	(7/16-8/27)		F	0	0.0	4,186	44.8	389	4.2	97	1.0	4,672	50.0
			Subtotal	0	0.0	8,372	89.6	876	9.4	97	1.0	9,345	100.0
	Season	243	M	148	0.6	11,571	41.5	1,635	5.9	0	0.0	13,354	47.9
			F	147	0.5	12,959	46.5	1,059	3.8	349	1.3	14,514	52.1
			Total	295	1.1	24,530	88.0	2,694	9.7	349	1.3	27,868	100.0
2004 [d]	6/17	74	M	0	0.0	271	12.2	963	43.3	0	0.0	1,233	55.4
	(6/15,17,22)		F	0	0.0	150	6.7	842	37.8	0	0.0	993	44.6
			Subtotal	0	0.0	421	18.9	1,805	81.1	0	0.0	2,226	100.0
	6/24	72	M	318	2.8	2,384	20.8	4,133	36.1	159	1.4	6,994	61.1
	(6/24,29,7/1,5,7)		F	0	0.0	795	7.0	3,656	32.0	0	0.0	4,451	38.9
			Subtotal	318	2.8	3,179	27.8	7,789	68.1	159	1.4	11,445	100.0
	7/12	79	M	615	5.0	3,076	25.3	2,461	20.3	0	0.0	6,151	50.6
	(7/9,12,14,16,8/2,		F	154	1.3	3,691	30.4	2,153	17.7	0	0.0	5,998	49.4
	4,6,9,11,13,16,18		Subtotal	769	6.3	6,767	55.7	4,614	38.0	0	0.0	12,149	100.0
	20,23,25,27)												
	Season	225	M	933	3.6	5,731	22.2	7,556	29.3	159	0.6	14,379	55.7
			F	154	0.6	4,636	18.0	6,651	25.7	0	0.0	11,441	44.3
			Total	1,087	4.2	10,367	40.2	14,207	55.0	159	0.6	25,820	100.0
2005 [d]	6/21	167	M	0	0.0	577	49.1	162	13.8	14	1.2	752	64.1
	(6/14,16,21,23)		F	0	0.0	323	27.5	91	7.8	7	0.6	422	35.9
			Subtotal	0	0.0	900	76.6	253	21.6	21	1.8	1,174	100.0
	6/28	132	M	27	0.8	1,470	41.7	374	10.6	27	0.8	1,898	53.8
	(6/28,30)		F	26	0.7	1,443	40.9	134	3.8	26	0.7	1,630	46.2
			Subtotal	53	1.5	2,913	82.6	508	14.4	53	1.5	3,528	100.0
	7/5,7	248	M	14	0.4	1,642	47.2	337	9.7	14	0.4	2,007	57.7
	(7/5,7,12)		F	0	0.0	1,305	37.5	168	4.8	0	0.0	1,473	42.3
			Subtotal	14	0.4	2,947	84.7	505	14.5	14	0.4	3,480	100.0
	7/14,19,8/1	185	M	0	0.0	1,553	48.1	157	4.9	0	0.0	1,710	53.0
	(7/12,14,19,8/1)		F	0	0.0	1,362	42.2	157	4.8	0	0.0	1,519	47.0
			Subtotal	0	0.0	2,915	90.3	314	9.7	0	0.0	3,229	100.0
	8/3,5,10	226	M	0	0.0	619	29.2	56	2.6	0	0.0	675	31.9
	(8/3,5,8,10,12,15		F	9	0.4	1,340	63.3	85	4.0	9	0.4	1,443	68.1
	17,19,22,26,30)		Subtotal	9	0.4	1,959	92.5	141	6.6	9	0.4	2,118	100.0
	Season	958	M	41	0.3	5,860	43.3	1,086	8.0	55	0.4	7,042	52.0
			F	36	0.3	5,773	42.7	635	4.7	43	0.3	6,487	48.0
			Total	77	0.6	11,633	86.0	1,721	12.7	98	0.7	13,529	100.0

Appendix D.3. Age and sex of chum salmon from the District 4 commercial fishery. [ab] (page 13 of 15)

Year	Sample Dates (Stratum Dates)	Sample Size	Sex	Age Class 0.2 Catch	0.2 %	0.3 Catch	0.3 %	0.4 Catch	0.4 %	0.5 Catch	0.5 %	Total Catch	Total %
2006 [d]	6/20	184	M	0	0.0	1,306	17.9	2,573	35.3	40	0.5	3,919	53.8
	(6/15,20)		F	0	0.0	1,148	15.8	2,216	30.5	0	0.0	3,364	46.2
			Subtotal	0	0.0	2,454	33.7	4,789	65.8	40	0.5	7,283	100.0
	6/22	142	M	0	0.0	1,020	23.9	1,351	31.7	30	0.7	2,401	56.3
	(6/22)		F	0	0.0	570	13.4	1,290	30.3	0	0.0	1,860	43.7
			Subtotal	0	0.0	1,590	37.3	2,641	62.0	30	0.7	4,261	100.0
	6/27	163	M	93	1.2	1,852	24.5	2,407	31.9	46	0.6	4,398	58.3
	(6/27,30)		F	0	0.0	1,018	13.5	2,130	28.2	0	0.0	3,148	41.7
			Subtotal	93	1.2	2,870	38.0	4,537	60.1	46	0.6	7,546	100.0
	7/3	188	M	40	1.1	617	16.5	1,175	31.4	0	0.0	1,832	48.9
	(7/3,5)		F	60	1.6	757	20.2	1,095	29.2	0	0.0	1,912	51.1
			Subtotal	100	2.7	1,374	36.7	2,270	60.6	0	0.0	3,744	100.0
	7/10	189	M	102	2.6	1,124	29.1	817	21.2	20	0.5	2,064	53.4
	(7/7,10)		F	61	1.6	1,083	28.0	654	16.9	0	0.0	1,798	46.6
			Subtotal	163	4.2	2,207	57.1	1,471	38.1	20	0.5	3,862	100.0
	7/17	147	M	166	2.7	1,123	18.3	1,039	17.0	0	0.0	2,329	38.1
	(7/17,19,21)		F	291	4.8	1,954	32.0	1,539	25.2	0	0.0	3,784	61.9
			Subtotal	457	7.5	3,077	50.3	2,578	42.2	0	0.0	6,113	100.0
	7/26	130	M	255	6.9	1,019	27.7	283	7.7	28	0.8	1,586	43.1
	(7/24,26)		F	226	6.2	1,161	31.5	708	19.2	0	0.0	2,095	56.9
			Subtotal	481	13.1	2,180	59.2	991	26.9	28	0.8	3,681	100.0
	7/31	177	M	150	5.6	451	17.0	256	9.6	0	0.0	857	32.2
	(7/31,8/2,4,7,9,11,		F	346	13.0	887	33.3	571	21.5	0	0.0	1,804	67.8
	14,16,18,21,23,25,		Subtotal	496	18.6	1,338	50.3	827	31.1	0	0.0	2,661	100.0
	28,30,9/1)												
	Season	1,320	M	806	2.1	8,512	21.8	9,901	25.3	165	0.4	19,384	49.5
			F	985	2.5	8,579	21.9	10,204	26.1	0	0.0	19,767	50.5
			Total	1,791	4.6	17,091	43.7	20,105	51.4	165	0.4	39,151	100.0
2007	6/19	47	M	0	0.0	519	34.0	422	27.6	65	4.3	1,006	66.0
	(6/14,19)		F	0	0.0	292	19.2	194	12.8	32	2.1	519	34.0
			Subtotal	0	0.0	811	53.2	616	40.4	97	6.4	1,525	100.0
	6/21	188	M	0	0.0	928	36.7	646	25.6	108	4.3	1,682	66.5
	(6/21)		F	0	0.0	377	14.9	431	17.0	40	1.6	848	33.5
			Subtotal	0	0.0	1,305	51.6	1,077	42.6	148	5.9	2,530	100.0
	6/28	172	M	0	0.0	2,862	32.6	1,431	16.3	102	1.2	4,396	50.0
	(6/26,28,7/2)		F	0	0.0	2,607	29.6	1,687	19.2	102	1.1	4,396	50.0
			Subtotal	0	0.0	5,469	62.2	3,118	35.5	204	2.3	8,792	100.0
	7/6	193	M	0	0.0	2,698	43.5	1,221	19.7	97	1.6	4,015	64.8
	(7/4,6,8)		F	0	0.0	1,542	24.9	578	9.3	64	1.0	2,184	35.2
			Subtotal	0	0.0	4,240	68.4	1,799	29.0	161	2.6	6,199	100.0

Appendix D.3. Age and sex of chum salmon from the District 4 commercial fishery. [ab] (page 14 of 15)

Year	Sample Dates (Stratum Dates)	Sample Size	Sex	Age Class 0.2 Catch	0.2 %	0.3 Catch	0.3 %	0.4 Catch	0.4 %	0.5 Catch	0.5 %	Total Catch	Total %
	7/12	195	M	0	0.0	2,673	43.1	668	10.7	32	0.5	3,373	54.4
	(7/10,12,14)		F	0	0.0	2,386	38.4	446	7.2	0	0.0	2,832	45.6
			Subtotal	0	0.0	5,059	81.5	1,114	17.9	32	0.5	6,205	100.0
	7/18	191	M	0	0.0	6,072	37.2	684	4.2	0	0.0	6,757	41.4
	(7/16,18,20,24)		F	0	0.0	8,211	50.2	1,198	7.3	171	1.0	9,579	58.6
			Subtotal	0	0.0	14,283	87.4	1,882	11.5	171	1.0	16,336	100.0
	7/26	148	M	0	0.0	5,441	27.7	531	2.7	0	0.0	5,972	30.4
	(7/26-8/31)		F	0	0.0	11,811	60.1	1,592	8.1	265	1.4	13,669	69.6
			Subtotal	0	0.0	17,252	87.8	2,123	10.8	265	1.4	19,641	100.0
	Season	1,134	M	0	0.0	21,195	34.6	5,603	9.2	403	0.7	27,201	44.4
			F	0	0.0	27,226	44.5	6,126	10.0	676	1.1	34,027	55.6
			Total	0	0.0	48,421	79.1	11,729	19.2	1,079	1.8	61,228	100.0
2008 [d]	6/24	194	M	0	0.0	3,324	13.4	11,762	47.4	895	3.6	15,981	64.4
	(6/14,17,24,26,		F	0	0.0	1,534	6.2	7,031	28.4	256	1.0	8,821	35.6
	7/1,5,8,10)		Subtotal	0	0.0	4,858	19.6	18,793	75.8	1,151	4.6	24,802	100.0
	7/23	201	M	285	1.0	4,997	17.4	6,853	23.9	571	2.0	12,706	44.3
	(7/12,14,16,		F	143	0.5	8,423	29.4	6,995	24.4	428	1.5	15,989	55.7
	18,'21,23,28)		Subtotal	428	1.5	13,420	46.8	13,848	48.3	999	3.5	28,695	100.0
	8/6	190	M	0	0.0	577	16.3	782	22.1	37	1.0	1,396	39.5
	(7/30,8/1,4,6,8,		F	19	0.5	856	24.2	1,079	30.5	186	5.3	2,140	60.5
	10,12,14,16,18,		Subtotal	19	0.5	1,433	40.5	1,861	52.6	223	6.3	3,536	100.0
	20,22,25,27,28)												
	Season	585	M	286	0.5	8,898	16.5	19,396	34.0	1,503	2.7	30,082	52.7
			F	161	0.3	10,813	19.0	15,106	26.5	870	1.5	26,951	47.3
			Total	447	0.8	19,711	34.6	34,502	60.5	2,373	4.2	57,033	100.0
2009 [d]	6/25	239	M	53	0.8	2,391	37.6	1,435	22.6	106	1.7	3,985	62.8
	(6/15,17,22,25)		F	0	0.0	1,568	24.7	797	12.5	0	0.0	2,365	37.2
			Subtotal	53	0.8	3,959	62.3	2,232	35.1	106	1.7	6,350	100.0
	7/6	217	M	250	1.8	2,437	18.0	3,250	24.0	250	1.9	6,187	45.6
	(6/30,7/6)		F	375	2.8	3,875	28.5	3,000	22.1	125	0.9	7,375	54.4
			Subtotal	625	4.6	6,312	46.5	6,250	46.1	375	2.8	13,562	100.0
	7/8	214	M	50	0.5	2,932	27.6	1,789	16.8	50	0.5	4,820	45.3
	(7/8)		F	99	0.9	4,074	38.3	1,590	15.0	49	0.4	5,813	54.7
			Subtotal	149	1.4	7,006	65.9	3,379	31.8	99	0.9	10,633	100.0
	7/10	220	M	150	1.4	3,508	31.8	1,704	15.5	100	0.9	5,463	49.5
	(7/10)		F	201	1.8	3,609	32.7	1,704	15.4	50	0.5	5,563	50.5
			Subtotal	351	3.2	7,117	64.5	3,408	30.9	150	1.4	11,026	100.0
	7/13	211	M	940	1.9	14,571	29.4	4,700	9.5	0	0.0	20,211	40.8
	(7/13,15-17,20,22,24,		F	235	0.5	24,206	48.8	4,700	9.5	235	0.5	29,376	59.2
	25,27,29,31,8/3,5,7,		Subtotal	1,175	2.4	38,777	78.2	9,400	19.0	235	0.5	49,587	100.0
	10,12,14,17,19,21,24)												
	Season	1,101	M	1,443	1.6	25,839	28.3	12,878	14.1	506	0.6	40,666	44.6
			F	910	1.0	37,331	41.0	11,791	13.0	460	0.5	50,492	55.4
			Total	2,353	2.6	63,170	69.3	24,669	27.1	966	1.1	91,158	100.0

Appendix D.3. Age and sex of chum salmon from the District 4 commercial fishery. [ab] (page 15 of 15)

Year	Sample Dates (Stratum Dates)	Sample Size	Sex	Age Class 0.2 Catch	0.2 %	0.3 Catch	0.3 %	0.4 Catch	0.4 %	0.5 Catch	0.5 %	Total Catch	Total %
	Grand	15,957	M	7,911	0.8	255,399	26.0	177,501	18.1	6,659	0.7	447,471	45.6
	Total [e]		F	8,685	0.9	325,712	33.2	192,151	19.6	7,676	0.8	534,222	54.4
			Total	16,596	1.7	581,112	59.2	369,651	37.7	14,335	1.5	981,680	100.0

[a] The number of fish in each stratum age and sex category are derived from the sample percentages; discrepancies in sums are attributed to rounding errors.

[b] The number of fish in "Season" summaries are the strata sums; "Season" percentages are derived from the sums.

[c] Sampling dates do not meet criteria for estimating commercial harvest percentages for some or all of the strata; "Season" is not included in the "Grand total".

[d] Sex of all fish was confirmed by visual inspection of gonads.

[e] The number of fish in the "Grand total" are the sum of the "Season" totals; percentages are derived from those sums.

Appendix D.4. Mean length (mm) of chum salmon from the District 4 commercial fishery. [a] (page 1 of 40)

Year	Sample Dates (Stratum Dates)	Sex		Age Class 0.2	0.3	0.4	0.5
1984	6/18,21 (6/18,21)	M	Mean Length		626	638	
			Std. Error		8	9	
			Range		565- 675	592- 675	
			Sample Size	0	15	11	0
		F	Mean Length		587	602	
			Std. Error		4	5	
			Range		540- 650	572- 625	
			Sample Size	0	33	12	0
	6/26 (6/26,28)	M	Mean Length		601	618	
			Std. Error		8	10	
			Range		545- 685	555- 675	
			Sample Size	0	19	12	0
		F	Mean Length		588	609	623
			Std. Error		6	9	3
			Range		540- 675	555- 690	620- 625
			Sample Size	0	25	18	2
	7/2 (7/2)	M	Mean Length		600	621	
			Std. Error		4	7	
			Range		540- 655	570- 735	
			Sample Size	0	44	20	0
		F	Mean Length		579	609	600
			Std. Error		3	7	-
			Range		530- 620	575- 655	600- 600
			Sample Size	0	41	11	1
	7/5 (7/5)	M	Mean Length		597	638	
			Std. Error		5	9	
			Range		555- 640	595- 685	
			Sample Size	0	24	11	0
		F	Mean Length		575	574	
			Std. Error		5	2	
			Range		525- 625	570- 580	
			Sample Size	0	26	4	0

Appendix D.4. Mean length (mm) of chum salmon from the District 4 commercial fishery. [a] (page 2 of 40)

Year	Sample Dates (Stratum Dates)	Sex		Age Class 0.2	0.3	0.4	0.5
	7/9,11	M	Mean Length		587	618	
	(7/9,11)		Std. Error		6	5	
			Range		533- 630	609- 634	
			Sample Size	0	17	5	0
		F	Mean Length		562	576	
			Std. Error		7	8	
			Range		500- 626	544- 602	
			Sample Size	0	21	8	0
	7/13	M	Mean Length		581	613	
	(7/13,16,18)		Std. Error		6	-	
			Range		539- 641	613- 613	
			Sample Size	0	19	1	0
		F	Mean Length		579	624	
			Std. Error		5	-	
			Range		542- 629	624- 624	
			Sample Size	0	18	1	0
	7/23, 27	M	Mean Length	516	576	598	
	7/20,23,25,27,30,		Std. Error	-	5	31	
	8/1,3,6,8,10,13,		Range	516- 516	522- 617	566- 629	
	15,17,20,24,27)		Sample Size	1	19	2	0
		F	Mean Length		553	542	
			Std. Error		5	3	
			Range		511- 604	539- 545	
			Sample Size	0	21	2	0
	Season	M	Mean Length	516	591	623	
			Range	516- 516	522- 685	555- 735	
			Sample Size	1	157	62	0
		F	Mean Length		574	596	619
			Range		500- 675	539- 690	600- 625
			Sample Size	0	185	56	3

Appendix D.4. Mean length (mm) of chum salmon from the District 4 commercial fishery. [a] (page 3 of 40)

Year	Sample Dates (Stratum Dates)	Sex		Age Class 0.2	0.3	0.4	0.5
1985	6/20,24	M	Mean Length		608	619	
	(6/20,24,27)		Std. Error		10	6	
			Range		550- 665	560- 665	
			Sample Size	0	12	17	0
		F	Mean Length		599	607	
			Std. Error		15	3	
			Range		545- 655	570- 650	
			Sample Size	0	7	29	0
	7/1	M	Mean Length		608	631	635
	(7/1,4)		Std. Error		10	11	-
			Range		580- 675	575- 690	635- 635
			Sample Size	0	9	9	1
		F	Mean Length		582	591	
			Std. Error		8	8	
			Range		560- 610	550- 650	
			Sample Size	0	7	12	0
	7/8	M	Mean Length		596	618	
	(7/8)		Std. Error		5	8	
			Range		560- 635	585- 670	
			Sample Size	0	21	13	0
		F	Mean Length		576	591	
			Std. Error		4	4	
			Range		535- 610	565- 640	
			Sample Size	0	28	16	0
	7/11	M	Mean Length		596	621	
	(7/11)		Std. Error		4	6	
			Range		535- 655	520- 700	
			Sample Size	0	48	40	0
		F	Mean Length		568	583	
			Std. Error		3	4	
			Range		530- 620	545- 630	
			Sample Size	0	44	36	0

Appendix D.4. Mean length (mm) of chum salmon from the District 4 commercial fishery. [a] (page 4 of 40)

Year	Sample Dates (Stratum Dates)	Sex		Age Class 0.2	0.3	0.4	0.5
	7/15 (7/15,8/1,5,12, 14,16,19,21,23, 26,28,30,9/2)	M	Mean Length		586	612	
			Std. Error		6	5	
			Range		525- 635	545- 655	
			Sample Size	0	27	19	0
		F	Mean Length		561	567	
			Std. Error		3	6	
			Range		515- 615	505- 610	
			Sample Size	0	39	23	0
	Season	M	Mean Length		600	621	635
			Range		525- 675	520- 700	635- 635
			Sample Size	0	117	98	1
		F	Mean Length		576	595	
			Range		515- 655	505- 650	
			Sample Size	0	125	116	0
1986	6/19,23 (6/19,23)	M	Mean Length		586	604	
			Std. Error		9	16	
			Range		545- 615	540- 675	
			Sample Size	0	7	8	0
		F	Mean Length		578	583	
			Std. Error		15	6	
			Range		535- 600	560- 600	
			Sample Size	0	4	6	0
	7/3 (6/30,7/3)	M	Mean Length		604	606	
			Std. Error		10	7	
			Range		515- 645	570- 640	
			Sample Size	0	12	10	0
		F	Mean Length		572	569	
			Std. Error		5	4	
			Range		530- 595	555- 590	
			Sample Size	0	17	9	0

Appendix D.4. Mean length (mm) of chum salmon from the District 4 commercial fishery. [a] (page 5 of 40)

Year	Sample Dates (Stratum Dates)	Sex		Age Class 0.2	0.3	0.4	0.5
	7/7 (7/7)	M	Mean Length		593	618	
			Std. Error		7	6	
			Range		530- 640	585- 695	
			Sample Size	0	22	19	0
		F	Mean Length		568	582	
			Std. Error		3	4	
			Range		520- 625	545- 625	
			Sample Size	0	49	26	0
	7/10 (7/10,14)	M	Mean Length		594	620	
			Std. Error		4	6	
			Range		550- 630	585- 675	
			Sample Size	0	32	21	0
		F	Mean Length		578	581	
			Std. Error		3	3	
			Range		525- 630	550- 600	
			Sample Size	0	61	18	0
	7/21 (7/17,21,31,8/4 6,8,11,13,15,18, 20,22,27,29,9/1)	M	Mean Length		591	603	
			Std. Error		7	11	
			Range		550- 655	550- 655	
			Sample Size	0	17	10	0
		F	Mean Length		564	578	
			Std. Error		4	8	
			Range		525- 615	515- 635	
			Sample Size	0	35	15	0
	Season	M	Mean Length		594	608	
			Range		515- 655	540- 695	
			Sample Size	0	90	68	0
		F	Mean Length		572	579	
			Range		520- 630	515- 635	
			Sample Size	0	166	74	0

Appendix D.4. Mean length (mm) of chum salmon from the District 4 commercial fishery. [a] (page 6 of 40)

Year	Sample Dates (Stratum Dates)	Sex		Age Class 0.2	0.3	0.4	0.5
1987 [b]	6/30	M	Mean Length		592	631	
	(6/30)		Std. Error		6	5	
			Range		530- 660	575- 720	
			Sample Size	0	30	37	0
		F	Mean Length		572	585	
			Std. Error		4	5	
			Range		525- 620	530- 630	
			Sample Size	0	29	27	0
	7/4	M	Mean Length		589	606	
	(7/4)		Std. Error		6	4	
			Range		545- 680	560- 675	
			Sample Size	0	20	48	0
		F	Mean Length		575	594	
			Std. Error		6	4	
			Range		540- 630	540- 635	
			Sample Size	0	13	37	0
1988	6/14	M	Mean Length		619	639	625
	(6/13-14)		Std. Error		11	8	10
			Range		581- 662	576- 710	608- 643
			Sample Size	0	7	19	3
		F	Mean Length		585	601	
			Std. Error		9	5	
			Range		554- 647	562- 638	
			Sample Size	0	10	18	0
	6/17	M	Mean Length		619	621	605
	(6/16-17)		Std. Error		7	11	-
			Range		598- 630	590- 660	605- 605
			Sample Size	0	4	5	1
		F	Mean Length		596	590	
			Std. Error		7	6	
			Range		570- 630	563- 625	
			Sample Size	0	7	10	0

Appendix D.4. Mean length (mm) of chum salmon from the District 4 commercial fishery. [a] (page 7 of 40)

Year	Sample Dates (Stratum Dates)	Sex		Age Class 0.2	0.3	0.4	0.5
	6/20	M	Mean Length		604	621	575
	(6/20-21)		Std. Error		9	10	-
			Range		563- 658	575- 665	575- 575
			Sample Size	0	12	10	1
		F	Mean Length		582	594	598
			Std. Error		6	6	28
			Range		550- 635	538- 634	570- 625
			Sample Size	0	17	14	2
	6/28	M	Mean Length		602	630	
	(6/28)		Std. Error		6	8	
			Range		560- 655	610- 660	
			Sample Size	0	19	7	0
		F	Mean Length	540	575	584	
			Std. Error	-	5	10	
			Range	540- 540	530- 625	530- 640	
			Sample Size	1	20	11	0
	7/2	M	Mean Length	540	590	596	
	(7/2)		Std. Error	-	7	7	
			Range	540- 540	555- 640	560- 640	
			Sample Size	1	14	12	0
		F	Mean Length		562	575	
			Std. Error		3	7	
			Range		530- 595	545- 605	
			Sample Size	0	23	8	0
	7/5	M	Mean Length		579	595	560
	(7/5)		Std. Error		7	6	-
			Range		515- 620	565- 670	560- 560
			Sample Size	0	16	19	1
		F	Mean Length		557	576	625
			Std. Error		8	6	-
			Range		520- 580	560- 590	625- 625
			Sample Size	0	9	6	1

Appendix D.4. Mean length (mm) of chum salmon from the District 4 commercial fishery. [a] (page 8 of 40)

Year	Sample Dates (Stratum Dates)	Sex		Age Class 0.2	0.3	0.4	0.5
	7/8	M	Mean Length	545	587	609	
	(7/8)		Std. Error	10	6	12	
			Range	535- 555	545- 635	570- 655	
			Sample Size	2	21	6	0
		F	Mean Length		575	580	560
			Std. Error		5	7	-
			Range		540- 610	560- 610	560- 560
			Sample Size	0	17	6	1
	7/11	M	Mean Length		582	583	
	(7/11)		Std. Error		6	8	
			Range		545- 635	570- 610	
			Sample Size	0	23	5	0
		F	Mean Length		563	565	
			Std. Error		3	14	
			Range		535- 590	515- 610	
			Sample Size	0	25	6	0
	7/14	M	Mean Length		589	599	
	(7/14)		Std. Error		5	7	
			Range		545- 655	555- 640	
			Sample Size	0	23	14	0
		F	Mean Length	570	567	590	
			Std. Error	-	5	3	
			Range	570- 570	535- 595	585- 595	
			Sample Size	1	16	3	0
	7/18	M	Mean Length		585	600	585
	(7/18,21)		Std. Error		4	70	-
			Range		550- 640	530- 670	585- 585
			Sample Size	0	29	2	1
		F	Mean Length		560	595	
			Std. Error		4	13	
			Range		520- 590	580- 620	
			Sample Size	0	19	3	0

Appendix D.4. Mean length (mm) of chum salmon from the District 4 commercial fishery. [a] (page 9 of 40)

Year	Sample Dates (Stratum Dates)	Sex		Age Class 0.2	0.3	0.4	0.5
	7/25 (7/25,27)	M	Mean Length		574		
			Std. Error		8		
			Range		520- 600		
			Sample Size	0	11	0	0
		F	Mean Length	543	554	565	535
			Std. Error	28	4	13	-
			Range	515- 570	510- 595	550- 590	535- 535
			Sample Size	2	25	3	1
	8/1, 3 (7/31,8/1,3,5,8, 10,12,15,17,19,22 24,26,29,31,9/5,7)	M	Mean Length		577	575	
			Std. Error		18	-	
			Range		525- 620	575- 575	
			Sample Size	0	5	1	0
		F	Mean Length		559		
			Std. Error		8		
			Range		525- 635		
			Sample Size	0	14	0	0
	Season	M	Mean Length	543	589	606	591
			Range	535- 555	515- 662	530- 710	560- 643
			Sample Size	3	184	100	7
		F	Mean Length	546	566	583	584
			Range	515- 570	510- 647	515- 640	535- 625
			Sample Size	4	202	88	5
1989	6/23 (6/15,19,23)	M	Mean Length		603	643	617
			Std. Error		7	5	12
			Range		560- 650	592- 689	605- 629
			Sample Size	0	11	28	2
		F	Mean Length		580	595	614
			Std. Error		4	6	26
			Range		551- 609	552- 669	588- 639
			Sample Size	0	21	26	2

Appendix D.4. Mean length (mm) of chum salmon from the District 4 commercial fishery. [a] (page 10 of 40)

Year	Sample Dates (Stratum Dates)	Sex		Age Class 0.2	0.3	0.4	0.5
	6/26	M	Mean Length		622	644	
	(6/26)		Std. Error		10	5	
			Range		579- 658	582- 693	
			Sample Size	0	9	21	0
		F	Mean Length		582	603	
			Std. Error		3	5	
			Range		542- 611	555- 652	
			Sample Size	0	26	22	0
	6/30	M	Mean Length		609	642	
	(6/30)		Std. Error		8	7	
			Range		563- 678	594- 717	
			Sample Size	0	13	22	0
		F	Mean Length		578	589	
			Std. Error		8	5	
			Range		540- 622	549- 631	
			Sample Size	0	12	27	0
	7/3	M	Mean Length		590	624	
	(7/3,5,7)		Std. Error		7	8	
			Range		548- 659	586- 691	
			Sample Size	0	19	15	0
		F	Mean Length		577	590	583
			Std. Error		8	4	-
			Range		535- 648	551- 628	583- 583
			Sample Size	0	15	21	1
	7/12	M	Mean Length		583	615	620
	(7/10,12,14)		Std. Error		5	6	-
			Range		528- 662	548- 672	620- 620
			Sample Size	0	38	21	1
		F	Mean Length		554	583	596
			Std. Error		3	6	-
			Range		507- 598	536- 666	596- 596
			Sample Size	0	46	31	1

Appendix D.4. Mean length (mm) of chum salmon from the District 4 commercial fishery. [a] (page 11 of 40)

Year	Sample Dates (Stratum Dates)	Sex		Age Class 0.2	0.3	0.4	0.5
	7/18 (7/18,21)	M	Mean Length		576	599	
			Std. Error		5	6	
			Range		534- 632	561- 662	
			Sample Size	0	32	26	0
		F	Mean Length		551	568	
			Std. Error		4	5	
			Range		504- 599	507- 628	
			Sample Size	0	44	34	0
	7/24 (7/24)	M	Mean Length		570	584	
			Std. Error		6	10	
			Range		462- 621	503- 685	
			Sample Size	0	28	25	0
		F	Mean Length		544	554	
			Std. Error		5	9	
			Range		515- 585	522- 598	
			Sample Size	0	17	9	0
	7/27 (7/27,31,8/2,4,7, 9,11,14,16,18, 21,23,25,9/1,8)	M	Mean Length		541	582	
			Std. Error		8	7	
			Range		470- 591	526- 635	
			Sample Size	0	16	13	0
		F	Mean Length		547	570	
			Std. Error		15	17	
			Range		510- 574	537- 595	
			Sample Size	0	4	3	0
	Season	M	Mean Length		586	624	618
			Range		462- 678	503- 717	605- 629
			Sample Size	0	166	171	3
		F	Mean Length		565	586	595
			Range		504- 648	507- 669	583- 639
			Sample Size	0	185	173	4

Appendix D.4. Mean length (mm) of chum salmon from the District 4 commercial fishery. [a] (page 12 of 40)

Year	Sample Dates (Stratum Dates)	Sex		Age Class 0.2	0.3	0.4	0.5
1990	6/14	M	Mean Length		597	638	
	(6/14)		Std. Error		5	7	
			Range		554- 642	597- 699	
			Sample Size	0	21	17	0
		F	Mean Length		587	602	
			Std. Error		4	7	
			Range		558- 625	540- 655	
			Sample Size	0	19	17	0
	6/18, 21	M	Mean Length		612	642	
	(6/18,21,25)		Std. Error		8	7	
			Range		560- 679	590- 690	
			Sample Size	0	16	16	0
		F	Mean Length		583	616	651
			Std. Error		4	5	-
			Range		529- 625	590- 645	651- 651
			Sample Size	0	28	12	1
	7/2	M	Mean Length		607	638	659
	(7/2)		Std. Error		7	11	12
			Range		537- 632	602- 687	647- 670
			Sample Size	0	14	9	2
		F	Mean Length		588	585	
			Std. Error		6	15	
			Range		560- 623	517- 619	
			Sample Size	0	13	6	0
	7/7	M	Mean Length	594	601	626	
	(7/7)		Std. Error	-	7	8	
			Range	594- 594	527- 695	590- 650	
			Sample Size	1	28	8	0
		F	Mean Length		577	595	
			Std. Error		5	16	
			Range		516- 655	532- 640	
			Sample Size	0	34	6	0

Appendix D.4. Mean length (mm) of chum salmon from the District 4 commercial fishery. [a] (page 13 of 40)

Year	Sample Dates (Stratum Dates)	Sex		Age Class 0.2	0.3	0.4	0.5
	7/9	M	Mean Length		575	616	
	(7/9,11,13)		Std. Error		5	7	
			Range		519- 620	600- 655	
			Sample Size	0	26	7	0
		F	Mean Length		562	574	
			Std. Error		7	8	
			Range		325- 635	543- 600	
			Sample Size	0	41	6	0
	7/20	M	Mean Length		577	613	
	(7/16,19-21)		Std. Error		5	10	
			Range		525- 655	584- 635	
			Sample Size	0	31	5	0
		F	Mean Length		562	592	
			Std. Error		4	13	
			Range		515- 630	547- 630	
			Sample Size	0	35	5	0
	7/25, 27	M	Mean Length	565	569	575	
	(7/23-28)		Std. Error	15	6	15	
			Range	550- 580	515- 640	560- 590	
			Sample Size	2	24	2	0
		F	Mean Length	538	555	571	
			Std. Error	11	3	13	
			Range	527- 548	515- 610	533- 634	
			Sample Size	2	57	8	0
	7/30; 8/1	M	Mean Length	535	575	595	632
	(7/30,8/1-3,6,8		Std. Error	-	4	13	-
	13,16,18,20,23,27)		Range	535- 535	530- 620	570- 615	632- 632
			Sample Size	1	38	3	1
		F	Mean Length	506	554	564	
			Std. Error	9	4	11	
			Range	490- 530	510- 640	525- 600	
			Sample Size	4	45	7	0

Appendix D.4. Mean length (mm) of chum salmon from the District 4 commercial fishery. [a] (page 14 of 40)

Year	Sample Dates (Stratum Dates)	Sex		Age Class 0.2	0.3	0.4	0.5
	Season	M	Mean Length	578	588	629	656
			Range	535- 594	515- 695	560- 699	632- 670
			Sample Size	4	198	67	3
		F	Mean Length	521	569	592	651
			Range	490- 548	325- 655	517- 655	651- 651
			Sample Size	6	272	67	1
1991	7/1 (6/13,20,24, 27,7/1)	M	Mean Length		571	613	
			Std. Error		8	10	
			Range		517- 617	579- 642	
			Sample Size	0	16	7	0
		F	Mean Length	543	556	588	
			Std. Error	-	5	8	
			Range	543- 543	511- 590	557- 610	
			Sample Size	1	21	8	0
	7/4 (7/4)	M	Mean Length		545	581	
			Std. Error		13	8	
			Range		488- 610	542- 621	
			Sample Size	0	8	8	0
		F	Mean Length		559	567	
			Std. Error		9	15	
			Range		527- 601	515- 622	
			Sample Size	0	7	6	0
	7/6 (7/6)	M	Mean Length		559	605	
			Std. Error		12	8	
			Range		482- 605	597- 620	
			Sample Size	0	9	3	0
		F	Mean Length		555		
			Std. Error		9		
			Range		517- 603		
			Sample Size	0	10	0	0

Appendix D.4. Mean length (mm) of chum salmon from the District 4 commercial fishery. [a] (page 15 of 40)

Year	Sample Dates (Stratum Dates)	Sex		Age Class 0.2	0.3	0.4	0.5
	7/8	M	Mean Length		595	596	
	(7/8)		Std. Error		8	6	
			Range		554- 695	546- 639	
			Sample Size	0	18	17	0
		F	Mean Length		564	572	
			Std. Error		4	7	
			Range		532- 618	520- 617	
			Sample Size	0	22	17	0
	7/11	M	Mean Length		587	610	
	(7/11,13,15)		Std. Error		5	9	
			Range		550- 641	564- 674	
			Sample Size	0	26	13	0
		F	Mean Length	508	560	570	
			Std. Error	-	4	8	
			Range	508- 508	512- 590	530- 615	
			Sample Size	1	23	12	0
	7/19	M	Mean Length		567	580	
	(7/17,19)		Std. Error		4	19	
			Range		520- 630	530- 645	
			Sample Size	0	34	5	0
		F	Mean Length		538	552	
			Std. Error		4	13	
			Range		495- 590	495- 590	
			Sample Size	0	35	6	0
	7/24	M	Mean Length	497	565	588	
	(7/22,24)		Std. Error	-	6	3	
			Range	497- 497	521- 618	580- 595	
			Sample Size	1	22	4	0
		F	Mean Length	490	542	549	
			Std. Error	-	3	9	
			Range	490- 490	511- 593	495- 576	
			Sample Size	1	33	8	0

Appendix D.4. Mean length (mm) of chum salmon from the District 4 commercial fishery. [a] (page 16 of 40)

Year	Sample Dates (Stratum Dates)	Sex		Age Class 0.2	0.3	0.4	0.5
	7/26	M	Mean Length	525	564	530	
	(7/26)		Std. Error	-	7	-	
			Range	525- 525	503- 624	530- 530	
			Sample Size	1	24	1	0
		F	Mean Length	486	541	558	
			Std. Error	-	3	15	
			Range	486- 486	497- 585	514- 580	
			Sample Size	1	52	4	0
	7/29	M	Mean Length		563	601	
	(7/29)		Std. Error		5	10	
			Range		525- 629	566- 650	
			Sample Size	0	26	7	0
		F	Mean Length	507	535	570	
			Std. Error	8	4	16	
			Range	499- 515	479- 571	542- 612	
			Sample Size	2	38	4	0
	7/31	M	Mean Length		568	566	
	(7/31)		Std. Error		10	19	
			Range		500- 629	521- 610	
			Sample Size	0	16	4	0
		F	Mean Length	494	545	562	
			Std. Error	-	4	8	
			Range	494- 494	477- 594	525- 592	
			Sample Size	1	38	9	0
	8/2	M	Mean Length		564		
	(8/2,5,9,14,		Std. Error		11		
	16,19,21,23,		Range		520- 592		
	26,28,9/2)		Sample Size	0	6	0	0
		F	Mean Length		542		
			Std. Error		5		
			Range		510- 585		
			Sample Size	0	20	0	0

Appendix D.4. Mean length (mm) of chum salmon from the District 4 commercial fishery. [a] (page 17 of 40)

Year	Sample Dates (Stratum Dates)	Sex		Age Class 0.2	0.3	0.4	0.5
	Season	M	Mean Length	505	575	602	
			Range	497- 525	482- 695	521- 674	
			Sample Size	2	205	69	0
		F	Mean Length	513	550	569	
			Range	486- 543	477- 618	495- 622	
			Sample Size	7	299	74	0
1992	6/18	M	Mean Length		625	613	579
	(6/15,18)		Std. Error		14	9	14
			Range		599- 664	574- 699	564- 593
			Sample Size	0	4	14	2
		F	Mean Length		593	597	
			Std. Error		-	5	
			Range		593- 593	545- 661	
			Sample Size	0	1	32	0

Appendix D.4. Mean length (mm) of chum salmon from the District 4 commercial fishery. [a] (page 18 of 40)

Year	Sample Dates (Stratum Dates)	Sex		Age Class 0.2	0.3	0.4	0.5
	6/29	M	Mean Length		615	620	
	(6/24,29,7/1)		Std. Error		7	4	
			Range		571- 655	535- 714	
			Sample Size	0	15	42	0
		F	Mean Length		577	596	
			Std. Error		5	4	
			Range		539- 646	555- 652	
			Sample Size	0	25	45	0
	Note: 300 mm added to each length in this stratum to correct fish measuring board calibration error.						
	7/6	M	Mean Length		591	615	619
	(7/3,6,7,8,10)		Std. Error		5	4	24
			Range		530- 663	537- 697	595- 642
			Sample Size	0	34	64	2
		F	Mean Length		583	582	610
			Std. Error		4	3	22
			Range		552- 622	504- 633	566- 638
			Sample Size	0	26	54	3
	7/15	M	Mean Length	515	571	592	597
	(7/13,15,17,20,22,		Std. Error	-	5	5	-
	24,27,29,31,8/3,5,		Range	515- 515	518- 625	526- 650	597- 597
	7,10,12,14,17,19,21,		Sample Size	1	37	42	1
	24,26,28,31,9/2,4)						
		F	Mean Length		556	567	556
			Std. Error		3	3	-
			Range		510- 601	526- 627	556- 556
			Sample Size	0	49	50	1
	Season	M	Mean Length	515	589	611	602
			Range	515- 515	518- 664	526- 714	564- 642
			Sample Size	1	90	162	5
		F	Mean Length		570	584	597
			Range		510- 646	504- 661	556- 638
			Sample Size	0	101	181	4

Appendix D.4. Mean length (mm) of chum salmon from the District 4 commercial fishery. [a] (page 19 of 40)

Year	Sample Dates (Stratum Dates)	Sex		Age Class 0.2	0.3	0.4	0.5
1993	6/28 (6/21,24,28)	M	Mean Length		552	574	568
			Std. Error		7	5	7
			Range		519- 590	525- 607	552- 587
			Sample Size	0	12	21	4
		F	Mean Length		549	568	574
			Std. Error		7	6	12
			Range		513- 573	529- 639	527- 632
			Sample Size	0	8	17	7
	6/30 (6/30)	M	Mean Length		557	582	571
			Std. Error		7	11	11
			Range		525- 593	508- 665	530- 616
			Sample Size	0	10	17	8
		F	Mean Length		530	556	567
			Std. Error		8	4	13
			Range		506- 569	514- 602	527- 623
			Sample Size	0	7	23	7
	7/2 (7/2,5)	M	Mean Length		575	561	607
			Std. Error		7	8	19
			Range		562- 596	485- 607	588- 626
			Sample Size	0	4	14	2
		F	Mean Length		537	556	557
			Std. Error		7	4	8
			Range		523- 577	534- 592	530- 583
			Sample Size	0	7	15	7
	7/9,12 (7/7,9,12)	M	Mean Length	516	548	560	
			Std. Error	-	7	6	
			Range	516- 516	503- 626	520- 621	
			Sample Size	1	20	24	0
		F	Mean Length	495	539	545	553
			Std. Error	-	4	6	12
			Range	495- 495	503- 573	508- 593	527- 596
			Sample Size	1	23	18	5

Appendix D.4. Mean length (mm) of chum salmon from the District 4 commercial fishery. [a] (page 20 of 40)

Year	Sample Dates (Stratum Dates)	Sex		Age Class 0.2	0.3	0.4	0.5
	7/16 (7/14,16,19,21,23, 26,28,30,8/2,6,9, 11,16,18,20,23,25, 28,9/3)	M	Mean Length	541	541	551	564
			Std. Error	-	4	4	14
			Range	541- 541	503- 592	511- 587	542- 591
			Sample Size	1	37	19	3
		F	Mean Length		522	534	524
			Std. Error		3	4	8
			Range		484- 555	492- 573	516- 531
			Sample Size	0	30	24	2
	Season	M	Mean Length	529	547	562	577
			Range	516- 541	503- 626	485- 665	530- 626
			Sample Size	2	83	95	17
		F	Mean Length	495	532	548	557
			Range	495- 495	484- 577	492- 639	516- 632
			Sample Size	1	75	97	28
1994 [b]	7/6 (7/6)	M	Mean Length		567	572	529
			Std. Error		5	6	-
			Range		521- 651	505- 637	529- 529
			Sample Size	0	37	28	1
		F	Mean Length		537	559	
			Std. Error		5	6	
			Range		495- 593	521- 603	
			Sample Size	0	24	17	0
	7/8 (7/8)	M	Mean Length		554	562	
			Std. Error		5	10	
			Range		524- 590	499- 609	
			Sample Size	0	19	10	0
		F	Mean Length		536	531	565
			Std. Error		3	9	-
			Range		511- 569	500- 585	565- 565
			Sample Size	0	30	9	1

Appendix D.4. Mean length (mm) of chum salmon from the District 4 commercial fishery. [a] (page 21 of 40)

Year	Sample Dates (Stratum Dates)	Sex		Age Class 0.2	0.3	0.4	0.5
	7/11 (7/11)	M	Mean Length		567	570	545
			Std. Error		4	8	-
			Range		524- 613	527- 619	545- 545
			Sample Size	0	32	17	1
		F	Mean Length		539	547	
			Std. Error		4	3	
			Range		488- 606	519- 585	
			Sample Size	0	35	27	0
	7/13 (7/13)	M	Mean Length		560	568	573
			Std. Error		2	4	-
			Range		508- 614	513- 607	573- 573
			Sample Size	0	91	31	1
		F	Mean Length		534	545	
			Std. Error		2	4	
			Range		483- 583	493- 593	
			Sample Size	0	100	36	0
1995	6/24 (6/13,17,20, 24,26,29,7/3)	M	Mean Length		584	602	
			Std. Error		16	6	
			Range		547- 627	563- 652	
			Sample Size	0	4	17	0
		F	Mean Length	525	578	580	
			Std. Error	-	6	6	
			Range	525- 525	535- 611	545-656	
			Sample Size	1	12	23	0
	7/12 (7/5,7,10,12,14)	M	Mean Length	529	598	603	636
			Std. Error	8	5	7	-
			Range	513- 551	544- 657	541- 653	636- 636
			Sample Size	5	33	21	1
		F	Mean Length	551	565	581	600
			Std. Error	6	3	4	-
			Range	504- 578	520- 648	540- 623	600- 600
			Sample Size	12	74	34	1

Appendix D.4. Mean length (mm) of chum salmon from the District 4 commercial fishery. [a] (page 22 of 40)

Year	Sample Dates (Stratum Dates)	Sex		Age Class 0.2	0.3	0.4	0.5
	7/17 (7/17,19)	M	Mean Length	556	585	601	623
			Std. Error	10	5	10	-
			Range	528- 591	530- 626	561- 650	623- 623
			Sample Size	6	23	10	1
		F	Mean Length	529	561	575	
			Std. Error	5	3	4	
			Range	489- 571	501- 604	525- 620	
			Sample Size	19	69	46	0
	7/21 (7/19,21,24,26,28, 31,8/2,4,7,9,11,14, 16,18,21,23,25,28, 30,9/1)	M	Mean Length	524	568	579	577
			Std. Error	11	4	6	-
			Range	454- 575	512- 640	492- 636	577- 577
			Sample Size	12	52	29	1
		F	Mean Length	533	546	555	548
			Std. Error	5	3	5	11
			Range	511- 562	504- 594	502- 613	537- 559
			Sample Size	10	54	26	2
	Season	M	Mean Length	530	588	599	624
			Range	454- 591	530- 657	492- 653	577- 636
			Sample Size	23	112	77	3
		F	Mean Length	542	565	578	582
			Range	489- 578	501- 648	502- 656	537- 600
			Sample Size	42	209	129	3
1996[b]	7/11 (7/11)	M	Mean Length		589	622	
			Std. Error		4	8	
			Range		516- 677	572- 657	
			Sample Size	0	69	9	0
		F	Mean Length		561	568	561
			Std. Error		2	7	-
			Range		513- 623	499- 605	561- 561
			Sample Size	0	104	16	1

Appendix D.4. Mean length (mm) of chum salmon from the District 4 commercial fishery. [a] (page 23 of 40)

Year	Sample Dates (Stratum Dates)	Sex		Age Class 0.2	0.3	0.4	0.5
	7/15,17	M	Mean Length		593	606	
	(7/15,17)		Std. Error		3	10	
			Range		531- 666	569- 655	
			Sample Size	0	80	7	0
		F	Mean Length		560	581	561
			Std. Error		2	7	-
			Range		499- 615	544- 634	561- 561
			Sample Size	0	116	12	1
	7/24	M	Mean Length	527	584	594	
	(7/24)		Std. Error	-	3	14	
			Range	527- 527	525- 669	529- 650	
			Sample Size	1	67	9	0
		F	Mean Length	551	564	571	550
			Std. Error	-	3	6	-
			Range	551- 551	485- 619	542- 597	550- 550
			Sample Size	1	109	10	1
1997 [c]	6/19	M	Mean Length		609	629	694
	(6/13,16,19)		Std. Error		9	3	-
			Range		549- 664	548- 691	694- 694
			Sample Size	0	12	76	1
		F	Mean Length		584	595	
			Std. Error		7	3	
			Range		558- 618	533- 655	
			Sample Size	0	9	72	0
	6/26	M	Mean Length		584	620	623
	(6/23,26,30)		Std. Error		5	4	-
			Range		554- 627	521- 698	623- 623
			Sample Size	0	16	67	1
		F	Mean Length		580	587	580
			Std. Error		11	3	-
			Range		537- 683	532- 641	580- 580
			Sample Size	0	13	70	1

Appendix D.4. Mean length (mm) of chum salmon from the District 4 commercial fishery. [a] (page 24 of 40)

Year	Sample Dates (Stratum Dates)	Sex		Age Class 0.2	0.3	0.4	0.5
	7/7	M	Mean Length	537	592	612	610
	(7/2,4,7,9)		Std. Error	-	6	4	-
			Range	537- 537	525- 650	545- 680	610- 610
			Sample Size	1	27	61	1
		F	Mean Length		562	590	568
			Std. Error		5	3	-
			Range		510- 628	531- 692	568- 568
			Sample Size	0	32	68	1
	7/11	M	Mean Length	537	568	603	615
	(7/11,14)		Std. Error	8	4	6	10
			Range	522- 551	514- 628	512- 677	604- 655
			Sample Size	3	40	36	5
		F	Mean Length		549	580	581
			Std. Error		3	3	18
			Range		497- 590	532- 643	563- 598
			Sample Size	0	51	60	2
	7/18	M	Mean Length	517	569	602	
	(7/16,18,21)		Std. Error	-	3	4	
			Range	517- 517	519- 623	502- 658	
			Sample Size	1	42	45	0
		F	Mean Length	542	562	578	
			Std. Error	-	4	3	
			Range	542- 542	501- 608	522- 635	
			Sample Size	1	48	61	0
	7/25	M	Mean Length	494	559	582	573
	(7/23,25,28,30)		Std. Error	15	5	6	-
			Range	464- 531	500- 666	531- 635	573- 573
			Sample Size	5	34	24	1
		F	Mean Length	516	542	556	551
			Std. Error	16	3	5	-
			Range	488- 545	498- 596	521- 612	551- 551
			Sample Size	3	48	27	1

Appendix D.4. Mean length (mm) of chum salmon from the District 4 commercial fishery. [a] (page 25 of 40)

Year	Sample Dates (Stratum Dates)	Sex		Age Class 0.2	0.3	0.4	0.5
	8/6 (8/1-9/3)	M	Mean Length	511	569	603	
			Std. Error	6	6	9	
			Range	505- 517	512- 629	528- 662	
			Sample Size	2	30	18	0
		F	Mean Length	530	538	557	590
			Std. Error	10	4	4	-
			Range	511- 549	480- 599	495- 616	590- 590
			Sample Size	4	47	51	1
	Season	M	Mean Length	513	576	610	611
			Range	464- 551	500- 666	502- 698	573- 694
			Sample Size	12	201	327	9
		F	Mean Length	525	555	582	571
			Range	488- 549	480- 683	495- 692	551- 598
			Sample Size	8	248	409	6
1998 [c]	6/15 (6/15,18)	M	Mean Length		594	620	
			Std. Error		5	7	
			Range		552- 640	560- 655	
			Sample Size	0	25	12	0
		F	Mean Length		577	578	594
			Std. Error		8	6	-
			Range		535- 597	558- 605	594- 594
			Sample Size	0	7	7	1
	6/22 (6/22,25)	M	Mean Length		595	614	591
			Std. Error		3	12	-
			Range		546- 680	531- 691	591- 591
			Sample Size	0	70	11	1
		F	Mean Length		559	584	
			Std. Error		4	7	
			Range		521- 631	550- 620	
			Sample Size	0	34	11	0

Appendix D.4. Mean length (mm) of chum salmon from the District 4 commercial fishery. [a] (page 26 of 40)

Year	Sample Dates (Stratum Dates)	Sex		Age Class 0.2	0.3	0.4	0.5
	7/2	M	Mean Length		586	616	612
	(6/29,7/2,6)		Std. Error		3	9	-
			Range		532- 655	570- 666	612- 612
			Sample Size	0	80	12	1
		F	Mean Length		567	578	559
			Std. Error		2	9	16
			Range		532- 605	523- 617	543- 575
			Sample Size	0	85	13	2
	7/10	M	Mean Length		589	607	
	(7/8,10,13)		Std. Error		3	7	
			Range		530- 643	592- 624	
			Sample Size	0	73	5	0
		F	Mean Length		562	572	
			Std. Error		2	8	
			Range		514- 625	522- 607	
			Sample Size	0	107	10	0
	7/17	M	Mean Length		585	586	
	(7/15,17,20)		Std. Error		4	4	
			Range		531- 644	571- 598	
			Sample Size	0	55	6	0
		F	Mean Length	539	558	577	
			Std. Error	10	2	12	
			Range	526- 569	502- 614	546- 638	
			Sample Size	4	124	7	0
	7/27	M	Mean Length	526	569	564	
	(7/22,24,27,29,31,		Std. Error	-	7	-	
	8/3,5,7,10,12,14,		Range	526- 526	520- 616	564- 564	
	17,21,24,26,28,31)		Sample Size	1	20	1	0
		F	Mean Length	511	547	527	548
			Std. Error	1	2	-	-
			Range	510- 511	493- 580	527- 527	548- 548
			Sample Size	2	68	1	1

Appendix D.4. Mean length (mm) of chum salmon from the District 4 commercial fishery. [a] (page 27 of 40)

Year	Sample Dates (Stratum Dates)	Sex		Age Class 0.2	0.3	0.4	0.5
	Season	M	Mean Length	526	587	609	606
			Range	526- 526	520- 680	531- 691	591- 612
			Sample Size	1	323	47	2
		F	Mean Length	529	560	576	558
			Range	510- 569	493- 631	522- 638	543- 594
			Sample Size	6	425	49	4
1999 [c]	6/24 (6/21,24)	M	Mean Length		599	612	643
			Std. Error		3	4	-
			Range		549- 698	526- 673	643- 643
			Sample Size	0	69	52	1
		F	Mean Length		573	591	
			Std. Error		5	5	
			Range		518- 674	531- 695	
			Sample Size	0	35	39	0
	6/28 (6/28,7/1)	M	Mean Length		598	614	
			Std. Error		3	4	
			Range		546- 652	552- 667	
			Sample Size	0	61	50	0
		F	Mean Length		570	591	
			Std. Error		3	3	
			Range		510- 610	551- 642	
			Sample Size	0	47	48	0
	7/9 (7/5,9,14)	M	Mean Length		594	599	
			Std. Error		4	5	
			Range		503- 668	521- 640	
			Sample Size	0	66	25	0
		F	Mean Length		568	578	607
			Std. Error		2	5	-
			Range		522- 613	521- 625	607- 607
			Sample Size	0	86	29	1

Appendix D.4. Mean length (mm) of chum salmon from the District 4 commercial fishery. [a] (page 28 of 40)

Year	Sample Dates (Stratum Dates)	Sex		Age Class 0.2	0.3	0.4	0.5
	7/19	M	Mean Length	559	579	582	
	(7/16,19,21,23,		Std. Error	-	4	8	
	26,28,30,8/2,		Range	559- 559	500- 625	553- 605	
	4,11,16,18)		Sample Size	1	53	6	0
		F	Mean Length		563	575	
			Std. Error		2	5	
			Range		506- 637	516- 640	
			Sample Size	0	113	32	0
	Season	M	Mean Length	559	591	606	643
			Range	559- 559	500- 698	521- 673	643- 643
			Sample Size	1	249	133	1
		F	Mean Length		566	582	607
			Range		506- 674	516- 695	607- 607
			Sample Size	0	281	148	1
2000 [c]	6/15	M	Mean Length		617	636	636
	(6/15)		Std. Error		12	6	-
			Range		575- 668	543- 718	636- 636
			Sample Size	0	8	46	1
		F	Mean Length			603	606
			Std. Error			3	-
			Range			558- 660	606- 606
			Sample Size	0	0	46	1
	6/19	M	Mean Length		604	638	
	(6/19,22)		Std. Error		6	4	
			Range		544- 675	574- 732	
			Sample Size	0	26	68	0
		F	Mean Length		581	609	596
			Std. Error		8	3	10
			Range		527- 640	571- 658	578- 613
			Sample Size	0	16	37	3
	6/26	M	Mean Length	550	591	634	563
	(6/26,29)		Std. Error	-	4	4	-
			Range	550- 550	519- 645	546- 714	563- 563
			Sample Size	1	51	60	1
		F	Mean Length		575	592	574
			Std. Error		4	4	-
			Range		534- 620	540- 649	574- 574
			Sample Size	0	32	53	1

Appendix D.4. Mean length (mm) of chum salmon from the District 4 commercial fishery. [a] (page 29 of 40)

Year	Sample Dates (Stratum Dates)	Sex		Age Class 0.2	0.3	0.4	0.5
	7/6	M	Mean Length		603	623	
	(7/3,6,8)		Std. Error		4	4	
			Range		554- 681	582- 664	
			Sample Size	0	40	34	0
		F	Mean Length		569	589	
			Std. Error		2	4	
			Range		502- 608	544- 654	
			Sample Size	0	71	51	0
	7/13	M	Mean Length	.	602	626	608
	(7/11,13,15)		Std. Error		4	5	-
			Range		532- 678	569- 673	608- 608
			Sample Size	0	51	35	1
		F	Mean Length		573	590	543
			Std. Error		3	5	-
			Range		509- 693	551- 676	543- 543
			Sample Size	0	71	32	1
	7/21	M	Mean Length	548	584	597	
	(7/17,8/29)		Std. Error	13	3	9	
			Range	514- 576	546- 640	542- 700	
			Sample Size	4	49	22	0
		F	Mean Length	550	557	586	
			Std. Error	-	2	6	
			Range	550- 550	498- 610	501- 637	
			Sample Size	1	100	28	0
	Season	M	Mean Length	548	597	628	587
			Range	514- 576	519- 681	542- 732	563- 636
			Sample Size	5	225	265	3
		F	Mean Length	550	568	592	577
			Range	550- 550	498- 693	501- 676	543- 613
			Sample Size	1	291	247	6

Appendix D.4. Mean length (mm) of chum salmon from the District 4 commercial fishery. [a] (page 30 of 40)

Year	Sample Dates (Stratum Dates)	Sex		Age Class 0.2	0.3	0.4	0.5
2001 [c]	7/5 (6/21,25,28,7/2,5)	M	Mean Length		579	599	
			Std. Error		4	6	
			Range		529- 622	521- 678	
			Sample Size	0	36	39	0
		F	Mean Length	521	551	580	
			Std. Error	-	4	3	
			Range	521- 521	509- 589	522- 636	
			Sample Size	1	41	68	0
	7/12 (7/9,12,16)	M	Mean Length		579	600	
			Std. Error		4	6	
			Range		523- 648	535- 674	
			Sample Size	0	49	40	0
		F	Mean Length		554	575	554
			Std. Error		2	4	-
			Range		511- 591	531- 629	554- 554
			Sample Size	0	60	45	1
	7/23 (7/18,23,8/1,3,6, 10,13,15,18,20, 22,24)	M	Mean Length		576	607	
			Std. Error		4	8	
			Range		521- 634	532- 672	
			Sample Size	0	42	24	0
		F	Mean Length	528	557	582	
			Std. Error	2	3	4	
			Range	526- 530	506- 610	532- 691	
			Sample Size	2	81	47	0
	Season	M	Mean Length		579	600	
			Range		521- 648	521- 678	
			Sample Size	0	127	103	0
		F	Mean Length	524	554	579	554
			Range	521- 530	506- 610	522- 691	554- 554
			Sample Size	3	182	160	1
2002 [c]	7/8 (6/14,17,20,26,7/1, 3,5,8,10)	M	Mean Length	550	592	598	609
			Std. Error	19	4	5	9
			Range	515- 582	549- 650	561- 632	583- 623
			Sample Size	3	38	19	4
		F	Mean Length	526	568	576	594
			Std. Error	-	3	4	-
			Range	526- 526	512- 624	520- 659	594- 594
			Sample Size	1	61	51	1

Appendix D.4. Mean length (mm) of chum salmon from the District 4 commercial fishery. [a] (page 31 of 40)

Year	Sample Dates (Stratum Dates)	Sex		Age Class 0.2	0.3	0.4	0.5
	7/17 (7/12,15,17,19)	M	Mean Length	553	579	607	
			Std. Error	16	4	6	
			Range	503- 595	529- 622	558- 648	
			Sample Size	5	40	19	0
		F	Mean Length	540	558	567	
			Std. Error	9	3	4	
			Range	502- 569	446- 604	506- 606	
			Sample Size	9	72	33	0
	8/1 (8/1,5,7,9,12,14,16, 19,21,23,26)	M	Mean Length	544	581	622	589
			Std. Error	7	7	9	-
			Range	499- 580	525- 632	576- 682	589- 589
			Sample Size	13	17	11	1
		F	Mean Length	544	561	570	
			Std. Error	5	5	15	
			Range	517- 577	504- 606	519- 627	
			Sample Size	13	32	6	0
	Season	M	Mean Length	550	589	601	608
			Range	499- 595	525- 650	558- 682	583- 623
			Sample Size	21	95	49	5
		F	Mean Length	538	565	575	594
			Range	502- 577	446- 624	506- 659	594- 594
			Sample Size	23	165	90	1
2003 [c]	7/7 (6/14,17,19, 24,7/1,4,7)	M	Mean Length		579	605	
			Std. Error		5	11	
			Range		530- 620	555- 685	
			Sample Size	0	27	11	0
		F	Mean Length		562	555	630
			Std. Error		5	10	-
			Range		490- 600	525- 585	630- 630
			Sample Size	0	29	5	1
	7/13 (7/9,11,14)	M	Mean Length	565	559		
			Std. Error	-	4		
			Range	565- 565	515- 617		
			Sample Size	1	31	0	0
		F	Mean Length	558	546	572	583
			Std. Error	-	4	-	-
			Range	558- 558	505- 595	572- 572	583- 583
			Sample Size	1	39	1	1

Appendix D.4. Mean length (mm) of chum salmon from the District 4 commercial fishery. [a] (page 32 of 40)

Year	Sample Dates (Stratum Dates)	Sex		Age Class 0.2	0.3	0.4	0.5
	7/16 (7/16-8/27)	M	Mean Length		573	594	
			Std. Error		4	14	
			Range		520- 660	552- 635	
			Sample Size	0	43	5	0
		F	Mean Length		546	566	550
			Std. Error		3	8	-
			Range		495- 595	550- 585	550- 550
			Sample Size	0	43	4	1
	Season	M	Mean Length	565	569	602	
			Range	565- 565	515- 660	552- 685	
			Sample Size	1	101	16	0
		F	Mean Length	558	549	562	588
			Range	558- 558	490- 600	525- 585	550- 630
			Sample Size	1	111	10	3
2004 [c]	6/17 (6/15,17,22)	M	Mean Length		580	599	
			Std. Error		7	5	
			Range		535- 605	555- 680	
			Sample Size	0	9	32	0
		F	Mean Length		569	581	
			Std. Error		8	4	
			Range		540- 580	525- 615	
			Sample Size	0	5	28	0
	6/24 (6/24,29,7/1,5,7)	M	Mean Length	485	600	612	549
			Std. Error	21	6	5	-
			Range	464- 505	564- 641	555- 649	549- 549
			Sample Size	2	15	26	1
		F	Mean Length		571	581	
			Std. Error		8	4	
			Range		543- 596	543- 623	
			Sample Size	0	5	23	0

Appendix D.4. Mean length (mm) of chum salmon from the District 4 commercial fishery. [a] (page 33 of 40)

Year	Sample Dates (Stratum Dates)	Sex		Age Class 0.2	0.3	0.4	0.5
	7/12	M	Mean Length	559	587	589	
	(7/9,12,14,16,8/2,		Std. Error	23	6	7	
	4,6,9,11,13,16,18		Range	490- 590	545- 635	540- 655	
	20,23,25,27)		Sample Size	4	20	16	0
		F	Mean Length	570	561	580	
			Std. Error	-	5	3	
			Range	570- 570	510- 620	565- 605	
			Sample Size	1	24	14	0
	Season	M	Mean Length	533	592	603	549
			Range	464- 590	535- 641	540- 680	549- 549
			Sample Size	6	44	74	1
		F	Mean Length	570	563	581	
			Range	570- 570	510- 620	525- 623	
			Sample Size	1	34	65	0
2005 [c]	6/21	M	Mean Length		567	575	589
	(6/14,16,21,23)		Std. Error		3	6	47
			Range		501- 675	517- 643	542- 636
			Sample Size	0	82	23	2
		F	Mean Length		547	563	594
			Std. Error		3	10	-
			Range		507- 589	497- 608	594- 594
			Sample Size	0	46	13	1
	6/28	M	Mean Length	524	579	575	629
	(6/28,30)		Std. Error	-	5	6	-
			Range	524- 524	519- 652	523- 610	629- 629
			Sample Size	1	55	14	1
		F	Mean Length	487	551	582	557
			Std. Error	-	5	14	-
			Range	487- 487	489- 672	537- 618	557- 557
			Sample Size	1	54	5	1
	7/5,7	M	Mean Length	490	567	584	554
	(7/5,7,12)		Std. Error	-	3	6	-
			Range	490- 490	503- 636	529- 646	554- 554
			Sample Size	1	117	24	1
		F	Mean Length		552	567	
			Std. Error		3	11	
			Range		497- 678	504- 632	
			Sample Size	0	93	12	0

Appendix D.4. Mean length (mm) of chum salmon from the District 4 commercial fishery. [a] (page 34 of 40)

Year	Sample Dates (Stratum Dates)	Sex		Age Class 0.2	0.3	0.4	0.5
	7/14,19,8/1 (7/12,14,19,8/1)	M	Mean Length		567	599	
			Std. Error		3	12	
			Range		490- 637	560- 646	
			Sample Size	0	89	9	0
		F	Mean Length		544	568	
			Std. Error		3	4	
			Range		476- 611	543- 585	
			Sample Size	0	78	9	0
	8/3,5,10 (8/3,5,8,10,12,15 17,19,22,26,30)	M	Mean Length		564	578	
			Std. Error		3	12	
			Range		511- 625	539- 618	
			Sample Size	0	66	6	0
		F	Mean Length	511	541	550	544
			Std. Error	-	2	15	-
			Range	511- 511	489- 657	492- 614	544- 544
			Sample Size	1	143	9	1
	Season	M	Mean Length	512	570	581	600
			Range	490- 524	490- 675	517- 646	542- 636
			Sample Size	2	409	76	4
		F	Mean Length	493	547	567	560
			Range	487- 511	476- 678	492- 632	544- 594
			Sample Size	2	414	48	3
2006 [c]	6/20 (6/15,20)	M	Mean Length		573	585	641
			Std. Error		5	4	-
			Range		525- 637	524- 662	641- 641
			Sample Size	0	33	65	1
		F	Mean Length		557	566	
			Std. Error		5	3	
			Range		510- 604	510- 615	
			Sample Size	0	29	56	0
	6/22 (6/22)	M	Mean Length		573	579	610
			Std. Error		4	4	.
			Range		528- 638	508- 637	610- 610
			Sample Size	0	34	45	1
		F	Mean Length		548	563	
			Std. Error		6	4	
			Range		494- 594	527- 642	
			Sample Size	0	19	43	0

Appendix D.4. Mean length (mm) of chum salmon from the District 4 commercial fishery. [a] (page 35 of 40)

Year	Sample Dates (Stratum Dates)	Sex		Age Class 0.2	0.3	0.4	0.5
	6/27	M	Mean Length	542	564	578	589
	(6/27,30)		Std. Error	4	4	4	-
			Range	538- 545	511- 652	536- 650	589- 589
			Sample Size	2	40	52	1
		F	Mean Length		546	557	
			Std. Error		5	3	
			Range		497- 590	519- 595	
			Sample Size	0	22	46	0
	7/3	M	Mean Length	543	573	583	
	(7/3,5)		Std. Error	35	4	4	
			Range	508- 577	532- 622	528- 664	
			Sample Size	2	31	59	0
		F	Mean Length	534	542	562	
			Std. Error	12	4	4	
			Range	511- 552	501- 595	500- 650	
			Sample Size	3	38	55	0
	7/10	M	Mean Length	530	566	589	582
	(7/7,10)		Std. Error	15	4	6	-
			Range	496- 564	465- 652	523- 661	582- 582
			Sample Size	5	55	40	1
		F	Mean Length	557	552	566	
			Std. Error	11	3	4	
			Range	535- 570	500- 610	522- 631	
			Sample Size	3	53	32	0
	7/17	M	Mean Length	524	548	575	
	(7/17,19,21)		Std. Error	8	5	8	
			Range	506- 546	474- 597	518- 665	
			Sample Size	4	27	25	0
		F	Mean Length	521	539	545	
			Std. Error	9	4	4	
			Range	482- 554	482- 600	506- 592	
			Sample Size	7	47	37	0

Appendix D.4. Mean length (mm) of chum salmon from the District 4 commercial fishery. [a] (page 36 of 40)

Year	Sample Dates (Stratum Dates)	Sex		Age Class 0.2	0.3	0.4	0.5
	7/26 (7/24,26)	M	Mean Length	540	558	564	576
			Std. Error	6	5	11	-
			Range	500- 564	501- 616	502- 622	576- 576
			Sample Size	9	36	10	1
		F	Mean Length	515	544	549	
			Std. Error	11	5	5	
			Range	476- 579	490- 621	510- 595	
			Sample Size	8	41	25	0
	7/31 (7/31,8/2,4,7,9,11, 14,16,18,21,23,25, 28,30,9/1)	M	Mean Length	507	539	553	
			Std. Error	11	5	11	
			Range	469- 578	479- 620	500- 647	
			Sample Size	10	30	17	0
		F	Mean Length	507	531	541	
			Std. Error	5	4	4	
			Range	475- 567	478- 642	483- 620	
			Sample Size	23	59	38	0
	Season	M	Mean Length	529	563	580	602
			Range	469- 578	465- 652	500- 665	576- 641
			Sample Size	32	286	313	5
		F	Mean Length	518	545	558	
			Range	475- 579	478- 642	483- 650	
			Sample Size	44	308	332	0
2007	6/19 (6/14,19)	M	Mean Length		576	577	581
			Std. Error		6	9	7
			Range		546- 631	526- 624	574- 588
			Sample Size	0	16	13	2
		F	Mean Length		565	563	582
			Std. Error		9	8	-
			Range		511- 590	525- 576	582- 582
			Sample Size	0	9	6	1
	6/21 (6/21)	M	Mean Length		552	556	580
			Std. Error		5	4	9
			Range		425- 775	439- 629	550- 607
			Sample Size	0	69	48	8
		F	Mean Length		540	546	579
			Std. Error		4	4	7
			Range		502- 576	494- 600	565- 589
			Sample Size	0	28	32	3

Appendix D.4. Mean length (mm) of chum salmon from the District 4 commercial fishery. [a] (page 37 of 40)

Year	Sample Dates (Stratum Dates)	Sex		Age Class 0.2	0.3	0.4	0.5
	6/28	M	Mean Length		560	568	610
	(6/26,28,7/2)		Std. Error		4	6	30
			Range		500- 634	483- 623	580- 639
			Sample Size	0	56	28	2
		F	Mean Length		542	551	578
			Std. Error		3	5	8
			Range		479- 600	505- 636	570- 585
			Sample Size	0	51	33	2
	7/6	M	Mean Length		562	575	566
	(7/4,6,8)		Std. Error		3	5	13
			Range		508- 633	516- 633	547- 590
			Sample Size	0	84	38	3
		F	Mean Length		545	552	575
			Std. Error		4	4	45
			Range		488- 585	512- 582	530- 619
			Sample Size	0	48	18	2
	7/12	M	Mean Length		553	563	521
	(7/10,12,14)		Std. Error		3	7	-
			Range		415- 606	506- 633	521- 521
			Sample Size	0	84	21	1
		F	Mean Length		538	538	
			Std. Error		3	6	
			Range		430- 610	507- 574	
			Sample Size	0	75	14	0
	7/18	M	Mean Length		554	558	
	(7/16,18,20,24)		Std. Error		3	8	
			Range		480- 613	520- 605	
			Sample Size	0	71	8	0
		F	Mean Length		533	531	552
			Std. Error		3	7	4
			Range		427- 600	480- 579	548- 556
			Sample Size	0	96	14	2

Appendix D.4. Mean length (mm) of chum salmon from the District 4 commercial fishery. [a] (page 38 of 40)

Year	Sample Dates (Stratum Dates)	Sex		Age Class 0.2	0.3	0.4	0.5
	7/26 (7/26-8/31)	M	Mean Length		553	560	
			Std. Error		4	18	
			Range		490- 630	532- 612	
			Sample Size	0	41	4	0
		F	Mean Length		535	536	521
			Std. Error		2	8	14
			Range		486- 590	470- 570	506- 535
			Sample Size	0	89	12	2
	Season	M	Mean Length		556	566	580
			Range		415- 775	439- 633	521- 639
			Sample Size	0	421	160	16
		F	Mean Length		536	542	549
			Range		427- 610	470- 636	506- 619
			Sample Size	0	396	129	12
2008 [c]	6/24 (6/14,17,24,26,) 7/1,5,8,10)	M	Mean Length		604	610	602
			Std. Error		5	3	21
			Range		565-667	546-664	501-645
			Sample Size	0	25	92	7
		F	Mean Length		566	593	622
			Std. Error		5	2	12
			Range		541-597	561-646	610-633
			Sample Size	0	12	55	2
	7/23 (7/12,14,16,) 18,21,23,28)	M	Mean Length	529	577	579	572
			Std. Error	1	5	5	10
			Range	528-530	515-633	504-653	547-594
			Sample Size	2	35	48	4
		F	Mean Length	535	553	558	554
			Std. Error	-	3	4	24
			Range	535-535	511-591	495-625	511-595
			Sample Size	1	59	49	3
	8/6 (7/30,8/1,4,6,8, 10,12,14,16,18, 20,22,25,27,28)	M	Mean Length		574	592	585
			Std. Error		5	4	6
			Range		481-621	520-648	579-590
			Sample Size	0	31	42	2
		F	Mean Length	539	568	570	561
			Std. Error	-	4	3	8
			Range	539-539	519-633	510-634	534-611
			Sample Size	1	46	58	10

Appendix D.4. Mean length (mm) of chum salmon from the District 4 commercial fishery. [a] (page 39 of 40)

Year	Sample Dates (Stratum Dates)	Sex		Age Class 0.2	0.3	0.4	0.5
	Season	M	Mean Length	529	587	598	590
			Range	528-530	481-667	504-664	501-645
			Sample Size	2	91	182	13
		F	Mean Length	535	556	575	575
			Range	535-539	511-633	495-646	511-633
			Sample Size	2	117	162	15
2009 [c]	6/25	M	Mean Length	574	595	612	595
	(6/15,17,22,25)		Std. Error	4	3	4	15
			Range	570- 578	506- 654	564- 689	554- 623
			Sample Size	2	90	54	4
		F	Mean Length		576	583	
			Std. Error		3	4	
			Range		530- 620	545- 624	
			Sample Size	0	59	30	0
	7/6	M	Mean Length	578	576	592	582
	(6/30,7/6)		Std. Error	14	4	3	23
			Range	537- 603	514- 638	537- 637	527- 637
			Sample Size	4	39	52	4
		F	Mean Length	576	555	565	584
			Std. Error	29	3	3	26
			Range	534- 717	515- 600	529- 608	558- 609
			Sample Size	6	62	48	2
	7/8	M	Mean Length	575	586	597	604
	(7/8)		Std. Error	-	3	4	-
			Range	575- 575	501- 644	540- 678	604- 604
			Sample Size	1	59	36	1
		F	Mean Length	558	558	570	596
			Std. Error	33	3	4	-
			Range	525- 590	506- 604	528- 614	596- 596
			Sample Size	2	82	32	1
	7/10	M	Mean Length	526	581	591	623
	(7/10)		Std. Error	8	3	5	24
			Range	514- 540	515- 632	530- 650	599- 646
			Sample Size	3	70	34	2
		F	Mean Length	537	563	572	594
			Std. Error	8	3	4	-
			Range	516- 555	509- 613	521- 630	594- 594

Appendix D.4. Mean length (mm) of chum salmon from the District 4 commercial fishery. [a] (page 40 of 40)

Year	Sample Dates (Stratum Dates)	Sex		Age Class 0.2	0.3	0.4	0.5
			Sample Size	4	72	34	1
	7/13	M	Mean Length	521	588	585	
	(7/13,15-17,20,22,24,		Std. Error	11	4	5	
	25,27,29,31,8/3,5,7,		Range	490- 542	537- 672	546- 636	
	10,12,14,17,19,21,24)		Sample Size	4	62	20	0
		F	Mean Length	545	556	553	550
			Std. Error	-	3	5	-
			Range	545- 545	500- 641	510- 594	550- 550
			Sample Size	1	103	20	1
	Season	M	Mean Length	535	586	592	595
			Range	490- 603	501- 672	530- 689	527- 646
			Sample Size	14	320	196	11
		F	Mean Length	557	558	563	569
			Range	516- 717	500- 641	510- 630	550- 609
			Sample Size	13	378	164	5
	Grand Total [d]	M	Mean Length	534	582	603	604
			Range	454- 675	462- 710	492- 735	527- 694
			Sample Size	133	4,294	2,910	109
		F	Mean Length	532	559	576	583
			Range	486- 717	325- 683	492- 695	516-651
			Sample Size	164	5,169	3,068	105

[a] "Season" mean lengths are weighted by the commercial harvest in each stratum.

[b] Sampling dates do not meet criteria for estimating escapement percentages for some or all of the strata; Season is not included in "Grand Total".

[c] Sex of all fish was confirmed by visual inspection of gonads.

[d] "Grand Total" mean lengths are simple averages of the "Season" mean lengths.

Appendix D.5. Age and sex of chum salmon from the District 5 commercial fishery.[ab] (page 1 of 14)

Year	Sample Dates (Stratum Dates)	Sample Size	Sex	Age Class 0.2 Catch	0.2 %	0.3 Catch	0.3 %	0.4 Catch	0.4 %	0.5 Catch	0.5 %	Total Catch	Total %
1984 [c]	(6/18,21)	0	M										
			F										
			Total									1,092	
	(6/25)	0	M										
			F										
			Total									2,351	
	(6/28)	0	M										
			F										
			Total									1,981	
	(7/2)	0	M										
			F										
			Total									1,889	
	(7/5)	0	M										
			F										
			Total									1,720	
	(7/9)	0	M										
			F										
			Total									1,371	
	7/13	114	M	0	0.0	325	30.7	158	14.9	37	3.5	519	49.1
	(7/13)		F	0	0.0	380	36.0	157	14.9	0	0.0	538	50.9
			Subtotal	0	0.0	705	66.7	315	29.8	37	3.5	1,057	100.0
	7/16	151	M	0	0.0	362	29.8	201	16.6	16	1.3	579	47.7
	(7/16)		F	16	1.3	427	35.1	185	15.2	8	0.7	636	52.3
			Subtotal	16	1.3	789	64.9	386	31.8	24	2.0	1,215	100.0
	7/20	176	M	0	0.0	205	31.2	90	13.6	8	1.2	302	46.0
	(7/20)		F	0	0.0	295	44.9	52	8.0	7	1.1	355	54.0
			Subtotal	0	0.0	500	76.1	142	21.6	15	2.3	657	100.0
	(7/23)	0	M										
			F										
			Total									253	
	7/25	18	M	0	0.0	80	38.9	46	22.2	0	0.0	125	61.1
	(7/25)		F	0	0.0	45	22.2	34	16.7	0	0.0	80	38.9
			Subtotal	0	0.0	125	61.1	80	38.9	0	0.0	205	100.0
	(7/27,30,81/,3,6,	0	M										
	8,10,13,15,17,20,		F										
	22,24,27,29,9/3,5)		Total									549	
	Season	459	M										
			F										
			Total									14,340	
1985 [c]	(6/19,23,26)	0	M										

Appendix D.5. Age and sex of chum salmon from the District 5 commercial fishery.[ab] (page 2 of 14)

Year	Sample Dates (Stratum Dates)	Sample Size	Sex	Age Class 0.2 Catch	0.2 %	0.3 Catch	0.3 %	0.4 Catch	0.4 %	0.5 Catch	0.5 %	Total Catch	Total %
			F										
			Subtotal									1,677	
	7/2	33	M	0	0.0	237	33.3	65	9.1	0	0.0	301	42.4
	(7/2)		F	0	0.0	150	21.2	258	36.4	0	0.0	409	57.6
			Subtotal	0	0.0	387	54.5	323	45.5	0	0.0	710	100.0
	7/9	71	M	0	0.0	401	42.3	174	18.3	0	0.0	575	60.6
	(7/9)		F	0	0.0	214	22.5	160	16.9	0	0.0	374	39.4
			Subtotal	0	0.0	615	64.8	334	35.2	0	0.0	949	100.0
	7/11	37	M	0	0.0	182	32.4	76	13.5	0	0.0	258	45.9
	(7/11)		F	0	0.0	213	37.9	91	16.2	0	0.0	304	54.1
			Subtotal	0	0.0	395	70.3	167	29.7	0	0.0	562	100.0
	7/15	105	M	0	0.0	139	18.1	110	14.3	0	0.0	248	32.4
	(7/15)		F	0	0.0	248	32.4	263	34.3	7	1.0	519	67.6
			Subtotal	0	0.0	387	50.5	373	48.6	7	1.0	767	100.0
	8/1	24	M	0	0.0	15	12.5	15	12.5	0	0.0	30	25.0
	(8/1,5,8,12,14,16,		F	0	0.0	49	41.7	40	33.3	0	0.0	89	75.0
	19,21,26,28,30,9/2)		Subtotal	0	0.0	64	54.2	55	45.8	0	0.0	119	100.0
	Season	270	M										
			F										
			Total									4,784	
1986	6/19	27	M	0	0.0	519	25.9	667	33.4	0	0.0	1,186	59.3
	(6/19,23,26)		F	0	0.0	370	18.5	371	18.5	74	3.7	815	40.7
			Subtotal	0	0.0	889	44.4	1,038	51.9	74	3.7	2,001	100.0
	7/8	77	M	0	0.0	1,142	53.2	223	10.4	0	0.0	1,365	63.6
	(7/8)		F	0	0.0	446	20.8	334	15.6	0	0.0	780	36.4
			Subtotal	0	0.0	1,588	74.0	557	26.0	0	0.0	2,145	100.0
	7/11	110	M	12	0.9	477	35.5	135	10.0	12	0.9	636	47.3
	(7/11)		F	25	1.8	563	41.8	110	8.2	12	0.9	710	52.7
			Subtotal	37	2.7	1,040	77.3	245	18.2	24	1.8	1,346	100.0
	7/14	45	M	0	0.0	332	33.3	89	8.9	0	0.0	421	42.2
	(7/14)		F	0	0.0	487	48.9	88	8.9	0	0.0	575	57.8
			Subtotal	0	0.0	819	82.2	177	17.8	0	0.0	996	100.0
	7/17	94	M	0	0.0	1,276	33.0	452	11.7	0	0.0	1,728	44.7
	(7/17,19,21,23,25,28,		F	0	0.0	1,563	40.4	576	14.9	0	0.0	2,139	55.3
	30,8/1,4,6,8,11,13,15,		Subtotal	0	0.0	2,839	73.4	1,028	26.6	0	0.0	3,867	100.0
	18,20,22,25,29,9/2,4)												

Appendix D.5. Age and sex of chum salmon from the District 5 commercial fishery.[ab] (page 3 of 14)

Year	Sample Dates (Stratum Dates)	Sample Size	Sex	Age Class 0.2 Catch	0.2 %	0.3 Catch	0.3 %	0.4 Catch	0.4 %	0.5 Catch	0.5 %	Total Catch	Total %
	Season	353	M	12	0.1	3,746	36.2	1,566	15.1	12	0.1	5,335	51.5
			F	25	0.3	3,429	33.1	1,479	14.3	87	0.9	5,020	48.5
			Total	37	0.4	7,175	69.3	3,045	29.4	99	1.0	10,355	100.0
1987	6/24	90	M	0	0.0	337	23.3	432	30.0	0	0.0	769	53.3
	(6/18,24)		F	0	0.0	224	15.6	449	31.1	0	0.0	673	46.7
			Subtotal	0	0.0	561	38.9	881	61.1	0	0.0	1,442	100.0
	6/30	40	M	0	0.0	1,280	25.0	1,025	20.0	0	0.0	2,305	45.0
	(6/30,7/3)		F	0	0.0	1,921	37.5	896	17.5	0	0.0	2,817	55.0
			Subtotal	0	0.0	3,201	62.5	1,921	37.5	0	0.0	5,122	100.0
	7/7	75	M	0	0.0	1,433	32.0	776	17.3	0	0.0	2,209	49.3
	(7/7)		F	0	0.0	1,612	36.0	657	14.7	0	0.0	2,269	50.7
			Subtotal	0	0.0	3,045	68.0	1,433	32.0	0	0.0	4,478	100.0
	7/11	112	M	0	0.0	2,759	47.3	781	13.4	0	0.0	3,540	60.7
	(7/11)		F	0	0.0	1,561	26.8	729	12.5	0	0.0	2,290	39.3
			Subtotal	0	0.0	4,320	74.1	1,510	25.9	0	0.0	5,830	100.0
	7/15	113	M	0	0.0	1,615	46.0	435	12.4	0	0.0	2,050	58.4
	(7/15,20,8/3,10,13,		F	0	0.0	1,149	32.8	310	8.8	0	0.0	1,459	41.6
	17,19,21,24,26,28,		Subtotal	0	0.0	2,764	78.8	745	21.2	0	0.0	3,509	100.0
	31,9/2,4)												
	Season	430	M	0	0.0	7,423	36.4	3,449	16.9	0	0.0	10,872	53.3
			F	0	0.0	6,468	31.8	3,041	14.9	0	0.0	9,509	46.7
			Total	0	0.0	13,891	68.2	6,490	31.8	0	0.0	20,381	100.0
1988	6/16	40	M	0	0.0	27	2.5	573	52.5	27	2.5	627	57.5
	(6/16)		F	0	0.0	27	2.5	436	40.0	0	0.0	464	42.5
			Subtotal	0	0.0	55	5.0	1,009	92.5	27	2.5	1,091	100.0
	6/20	54	M	0	0.0	196	5.6	1,751	50.0	129	3.7	2,076	59.3
	(6/20)		F	0	0.0	65	1.9	1,231	35.2	129	3.7	1,425	40.7
			Subtotal	0	0.0	261	7.5	2,981	85.2	258	7.4	3,501	100.0
	6/23	37	M	0	0.0	211	2.7	2,538	32.4	211	2.7	2,961	37.8
	(6/23)		F	0	0.0	634	8.1	4,238	54.1	0	0.0	4,872	62.2
			Subtotal	0	0.0	846	10.8	6,776	86.5	211	2.7	7,833	100.0
	6/28	57	M	0	0.0	440	5.3	3,378	40.4	0	0.0	3,818	45.6
	(6/28)		F	0	0.0	293	3.5	4,260	50.9	0	0.0	4,553	54.4
			Subtotal	0	0.0	733	8.8	7,638	91.3	0	0.0	8,369	100.0
	7/2	87	M	0	0.0	838	12.6	2,667	40.2	76	1.1	3,580	54.0
	(7/2,5)		F	0	0.0	990	14.9	2,057	31.0	0	0.0	3,047	46.0
			Subtotal	0	0.0	1,828	27.6	4,724	71.3	76	1.1	6,627	100.0

Appendix D.5. Age and sex of chum salmon from the District 5 commercial fishery.[ab] (page 4 of 14)

Year	Sample Dates (Stratum Dates)	Sample Size	Sex	Age Class 0.2 Catch	0.2 %	0.3 Catch	0.3 %	0.4 Catch	0.4 %	0.5 Catch	0.5 %	Total Catch	Total %
	7/8	75	M	51	2.7	203	10.7	403	21.3	0	0.0	657	34.7
	(7/8)		F	0	0.0	328	17.3	909	48.0	0	0.0	1,237	65.3
			Subtotal	51	2.7	530	28.0	1,313	69.3	0	0.0	1,894	100.0
	7/11	119	M	30	0.8	535	14.3	786	21.0	0	0.0	1,352	36.1
	(7/11,14,18,25,29,		F	30	0.8	977	26.1	1,385	37.0	0	0.0	2,392	63.9
	8/1,3,5,8,10,12,15,		Subtotal	60	1.6	1,513	40.4	2,172	58.0	0	0.0	3,744	100.0
	17,19,22,24,26,29,												
	31,9/2,5,7,9)												
	Season	469	M	81	0.2	2,451	7.4	12,095	36.6	444	1.3	15,071	45.6
			F	30	0.1	3,315	10.0	14,516	43.9	129	0.4	17,990	54.4
			Total	111	0.3	5,765	17.4	26,612	80.5	573	1.7	33,059	100.0
1989	6/19	70	M	0	0.0	191	34.3	183	32.9	16	2.9	390	70.0
	(6/19)		F	0	0.0	40	7.1	111	20.0	16	2.8	167	30.0
			Subtotal	0	0.0	231	41.4	294	52.9	32	5.7	557	100.0
	6/23	70	M	0	0.0	334	15.7	912	42.9	122	5.7	1,367	64.3
	(6/23,26)		F	0	0.0	395	18.6	334	15.7	30	1.4	760	35.7
			Subtotal	0	0.0	729	34.3	1,246	58.6	152	7.1	2,127	100.0
	6/30	51	M	0	0.0	834	31.4	886	33.3	104	3.9	1,824	68.6
	(6/30,7/3)		F	0	0.0	365	13.7	469	17.7	0	0.0	834	31.4
			Subtotal	0	0.0	1,199	45.1	1,355	51.0	104	3.9	2,658	100.0
	7/7	72	M	0	0.0	1,420	29.2	1,556	32.0	0	0.0	2,976	61.1
	(7/5,7,10)		F	0	0.0	812	16.6	1,082	22.2	0	0.0	1,894	38.9
			Subtotal	0	0.0	2,232	45.8	2,638	54.2	0	0.0	4,870	100.0
	7/14	66	M	0	0.0	595	30.3	446	22.7	0	0.0	1,041	53.0
	(7/14)		F	0	0.0	357	18.2	565	28.8	0	0.0	922	47.0
			Subtotal	0	0.0	952	48.5	1,011	51.5	0	0.0	1,963	100.0
	7/21												
	(7/21,24)	89	M	0	0.0	263	34.8	144	19.1	0	0.0	407	53.9
			F	8	1.1	221	29.2	119	15.7	0	0.0	348	46.1
			Subtotal	8	1.1	484	64.0	263	34.8	0	0.0	755	100.0
	7/27,31	125	M	6	0.8	127	18.4	122	17.6	0	0.0	255	36.8
	(7/27,31,8/2,4,7,		F	0	0.0	211	30.4	221	32.0	6	0.8	437	63.2
	9,11,14,16,18,21,		Subtotal	6	0.8	338	48.8	343	49.6	6	0.8	692	100.0
	23,25,28,30,9/1)												
	Season	543	M	6	0.0	3,765	27.6	4,249	31.2	242	1.8	8,260	60.6
			F	8	0.1	2,399	17.6	2,902	21.3	52	0.4	5,362	39.4
			Total	14	0.1	6,164	45.2	7,151	52.5	294	2.2	13,622	100.0

Appendix D.5. Age and sex of chum salmon from the District 5 commercial fishery.[ab] (page 5 of 14)

Year	Sample Dates (Stratum Dates)	Sample Size	Sex	Age Class 0.2 Catch	0.2 %	0.3 Catch	0.3 %	0.4 Catch	0.4 %	0.5 Catch	0.5 %	Total Catch	Total %
1990	6/20	16	M	0	0.0	298	68.8	81	18.8	0	0.0	379	87.5
	(6/20)		F	0	0.0	54	12.5	0	0.0	0	0.0	54	12.5
			Subtotal	0	0.0	352	81.3	81	18.8	0	0.0	433	100.0
	6/25	53	M	0	0.0	430	32.1	303	22.6	0	0.0	734	54.7
	(6/25)		F	0	0.0	405	30.2	202	15.1	0	0.0	607	45.3
			Subtotal	0	0.0	835	62.3	506	37.7	0	0.0	1,341	100.0
	6/29	72	M	0	0.0	378	30.6	257	20.8	0	0.0	635	51.4
	(6/29)		F	0	0.0	515	41.7	85	6.9	0	0.0	600	48.6
			Subtotal	0	0.0	893	72.3	342	27.7	0	0.0	1,235	100.0
	7/5	110	M	56	0.9	3,206	51.8	842	13.6	0	0.0	4,103	66.3
	(7/2,5,7,9)		F	0	0.0	1,690	27.3	396	6.4	0	0.0	2,086	33.7
			Subtotal	56	0.9	4,895	79.1	1,238	20.0	0	0.0	6,189	100.0
	7/16	64	M	0	0.0	710	25.0	309	10.9	0	0.0	1,019	35.9
	(7/11,13,16,18)		F	0	0.0	1,686	59.4	133	4.7	0	0.0	1,819	64.1
			Subtotal	0	0.0	2,395	84.4	443	15.6	0	0.0	2,838	100.0
	7/23	44	M	0	0.0	368	31.8	132	11.4	26	2.3	526	45.5
	(7/20-21,23-28,		F	0	0.0	500	43.2	132	11.4	0	0.0	632	54.5
	30-31,8/1-3,6,8,		Subtotal	0	0.0	869	75.0	263	22.7	26	2.3	1,158	100.0
	10,13,20,27,29)												
	Season	359	M	56	0.4	5,390	40.9	1,924	14.6	26	0.2	7,396	56.1
			F	0	0.0	4,850	36.8	949	7.2	0	0.0	5,798	43.9
			Total	56	0.4	10,240	77.6	2,873	21.8	26	0.2	13,194	100.0
1991	6/20	56	M	2	1.8	59	42.9	24	17.9	0	0.0	86	62.5
	(6/20)		F	0	0.0	22	16.1	29	21.4	0	0.0	51	37.5
			Subtotal	2	1.8	81	59.0	54	39.3	0	0.0	137	100.0
	6/27	63	M	0	0.0	241	31.7	241	31.7	0	0.0	481	63.5
	(6/27)		F	0	0.0	144	19.0	133	17.5	0	0.0	277	36.5
			Subtotal	0	0.0	385	50.7	373	49.2	0	0.0	758	100.0
	7/1	117	M	0	0.0	327	38.5	116	13.7	0	0.0	443	52.2
	(7/1)		F	8	0.9	283	33.3	116	13.7	0	0.0	407	47.9
			Subtotal	8	0.9	610	71.8	233	27.4	0	0.0	850	100.0
	7/6	43	M	0	0.0	978	32.6	348	11.6	0	0.0	1,326	44.2
	(7/6,8)		F	0	0.0	1,256	41.9	419	14.0	0	0.0	1,675	55.8
			Subtotal	0	0.0	2,233	74.5	767	25.6	0	0.0	2,999	100.0
	7/11	36	M	0	0.0	656	33.3	110	5.6	0	0.0	766	38.9
	(7/11)		F	0	0.0	1,095	55.6	110	5.6	0	0.0	1,205	61.1
			Subtotal	0	0.0	1,752	88.9	220	11.2	0	0.0	1,971	100.0

Appendix D.5. Age and sex of chum salmon from the District 5 commercial fishery.[ab] (page 6 of 14)

Year	Sample Dates (Stratum Dates)	Sample Size	Sex	Age Class 0.2 Catch	0.2 %	0.3 Catch	0.3 %	0.4 Catch	0.4 %	0.5 Catch	0.5 %	Total Catch	Total %
	7/13	74	M	32	1.4	1,020	44.6	371	16.2	0	0.0	1,423	62.2
	(7/13-14)		F	0	0.0	711	31.1	155	6.8	0	0.0	866	37.8
			Subtotal	32	1.4	1,731	75.7	526	23.0	0	0.0	2,288	100.0
	7/22	97	M	144	3.1	2,018	43.3	47	1.0	0	0.0	2,209	47.4
	(7/17-20,22,23)		F	48	1.0	2,211	47.4	192	4.1	0	0.0	2,451	52.6
			Subtotal	192	4.1	4,229	90.7	239	5.1	0	0.0	4,661	100.0
	7/26,31	79	M	0	0.0	620	27.8	226	10.1	0	0.0	846	38.0
	(7/24-27,29-31,8/1,		F	85	3.8	1,043	46.8	254	11.4	0	0.0	1,382	62.0
	2,5,9,14,16,19,21)		Subtotal	85	3.8	1,664	74.7	479	21.5	0	0.0	2,228	100.0
	Season	565	M	179	1.1	5,919	37.2	1,482	9.3	0	0.0	7,580	47.7
			F	140	0.9	6,765	42.6	1,408	8.9	0	0.0	8,314	52.3
			Total	319	2.0	12,685	79.8	2,890	18.2	0	0.0	15,892	100.0
1992	6/22	24	M	0	0.0	165	4.2	1,477	37.5	165	4.2	1,807	45.8
	(6/22,25)		F	0	0.0	0	0.0	1,971	50.0	165	4.2	2,136	54.2
			Subtotal	0	0.0	165	4.2	3,448	87.5	330	8.4	3,942	100.0
	7/2	53	M	0	0.0	290	3.8	2,164	28.3	0	0.0	2,454	32.1
	(6/29,7/2,6)		F	0	0.0	434	5.7	4,763	62.3	0	0.0	5,197	67.9
			Subtotal	0	0.0	724	9.5	6,927	90.6	0	0.0	7,649	100.0
	7/13	68	M	0	0.0	321	7.4	1,848	42.6	0	0.0	2,170	50.0
	(7/9,10,13,14)		F	0	0.0	764	17.6	1,406	32.4	0	0.0	2,170	50.0
			Subtotal	0	0.0	1,085	25.0	3,254	75.0	0	0.0	4,339	100.0
	7/16	66	M	0	0.0	100	9.1	381	34.8	0	0.0	481	43.9
	(7/16,17)		F	0	0.0	183	16.7	431	39.4	0	0.0	614	56.1
			Subtotal	0	0.0	283	25.8	812	74.2	0	0.0	1,095	100.0
	7/20	14	M	0	0.0	125	21.4	84	14.3	0	0.0	209	35.7
	(7/20,21)		F	0	0.0	84	14.3	251	42.9	42	7.1	377	64.3
			Subtotal	0	0.0	209	35.7	335	57.2	42	7.1	586	100.0
	7/23	165	M	0	0.0	66	12.1	152	27.9	0	0.0	218	40.0
	(7/23,24)		F	0	0.0	79	14.5	241	44.2	7	1.2	327	60.0
			Subtotal	0	0.0	145	26.6	393	72.1	7	1.2	545	100.0
	7/30	28	M	0	0.0	52	14.3	130	35.7	0	0.0	182	50.0
	(7/27,28,30,31,		F	0	0.0	26	7.1	156	42.9	0	0.0	182	50.0
	8/3,6,10,14,20,		Subtotal	0	0.0	78	21.4	286	78.6	0	0.0	364	100.0
	24,27,28,31,9/4)												
	Season	418	M	0	0.0	1,119	6.0	6,236	33.7	165	0.9	7,520	40.6
			F	0	0.0	1,569	8.5	9,220	49.8	213	1.2	11,002	59.4
			Total	0	0.0	2,688	14.5	15,456	83.5	378	2.0	18,520	100.0

Appendix D.5. Age and sex of chum salmon from the District 5 commercial fishery.[ab] (page 7 of 14)

Year	Sample Dates (Stratum Dates)	Sample Size	Sex	Age Class 0.2 Catch	0.2 %	0.3 Catch	0.3 %	0.4 Catch	0.4 %	0.5 Catch	0.5 %	Total Catch	Total %
1993 [c]	(6/28,30)	0	M										
			F										
			Subtotal									1,619	
	(7/2,5)	0	M										
			F										
			Subtotal									1,492	
	(7/7)	0	M										
			F										
			Subtotal									1,036	
	7/9	191	M	5	0.5	177	17.3	225	22.0	65	6.3	472	46.1
	(7/9)		F	0	0.0	241	23.6	273	26.7	38	3.7	552	53.9
			Subtotal	5	0.5	419	40.9	498	48.7	102	10.0	1,024	100.0
	(7/12)	0	M										
			F										
			Subtotal									1,501	
	(7/14)	0	M										
			F										
			Subtotal									1,372	
	(7/16)	0	M										
			F										
			Subtotal									1,105	
	(7/19,21,23,26,	0	M										
	28,30,8/2,4,6,9,13,		F										
	16,18,23,26,28,9/1)		Subtotal									1,508	
	Season	191	M										
			F										
			Total									10,657	
1994 [c]	(6/27)	0	M										
			F										
			Subtotal									2,364	
	(6/30)	0	M										
			F										
			Subtotal									2,907	
	(7/4)	0	M										
			F										
			Subtotal									4,075	

Appendix D.5. Age and sex of chum salmon from the District 5 commercial fishery.[ab] (page 8 of 14)

Year	Sample Dates (Stratum Dates)	Sample Size	Sex	Age Class 0.2 Catch	0.2 %	0.3 Catch	0.3 %	0.4 Catch	0.4 %	0.5 Catch	0.5 %	Total Catch	Total %
	7/6	189	M	0	0.0	774	19.0	282	6.9	22	0.5	1,079	26.5
	(7/6)		F	0	0.0	1,920	47.1	970	23.8	106	2.6	2,996	73.5
			Total	0	0.0	2,694	66.1	1,253	30.7	128	3.1	4,076	100.0
	(7/8)	0	M										
			F										
			Subtotal									2,669	
	7/11-12	192	M	57	1.0	974	17.7	401	7.3	0	0.0	1,432	26.0
	(7/11-12)		F	29	0.5	2,835	51.6	1,145	20.8	57	1.0	4,066	74.0
			Total	86	1.6	3,809	69.3	1,546	28.1	57	1.0	5,498	100.0
	(7/14-15)	0	M										
			F										
			Subtotal									3,296	
	(7/19)	0	M										
			F										
			Subtotal									1,470	
	7/21	131	M	0	0.0	116	20.6	47	8.4	9	1.5	172	30.5
	(7/21)		F	4	0.8	301	53.4	69	12.2	17	3.1	391	69.5
			Total	4	0.8	417	74.0	116	20.6	26	4.6	563	100.0
	(7/23,25,27,29, 8/2-3,5,8,10,12, 15,17,19,22,29, 31,9/2,5,7)	0	M										
			F										
			Subtotal									1,559	
	Season	512	M										
			F										
			Total									28,477	
1995 [c]	(6/29)	0	M										
			F										
			Subtotal									1,242	
	(7/3)	0	M										
			F										
			Subtotal									2,540	
	(7/5)	0	M										
			F										
			Subtotal									1,324	
	7/7	176	M	24	0.6	585	13.6	928	21.6	24	0.6	1,562	36.4
	(7/7-8)		F	98	2.3	708	16.5	1,880	43.8	49	1.1	2,735	63.6
			Subtotal	122	2.8	1,293	30.1	2,808	65.4	73	1.7	4,297	100.0

Appendix D.5. Age and sex of chum salmon from the District 5 commercial fishery.[ab] (page 9 of 14)

Year	Sample Dates (Stratum Dates)	Sample Size	Sex	Age Class 0.2 Catch	0.2 %	0.3 Catch	0.3 %	0.4 Catch	0.4 %	0.5 Catch	0.5 %	Total Catch	Total %
	(7/10-11)	0	M										
			F										
			Subtotal									4,835	
	(7/13-14)	0	M										
			F										
			Subtotal									1,361	
	7/17	179	M	118	5.6	355	16.8	448	21.2	23	1.1	945	44.7
	(7/17-18)		F	71	3.4	437	20.7	662	31.3	0	0.0	1,170	55.3
			Subtotal	190	9.0	792	37.5	1,110	52.5	23	1.1	2,115	100.0
	(7/20-21)	0	M										
			F										
			Subtotal									1,187	
	(7/24,26,28,31,	0	M										
	8/2,7,11,14,16,		F										
	18,21,25,28,9/1)		Subtotal									931	
	Season	355	M										
			F										
			Total									19,832	
1996 [c]	(6/28)	0	M										
			F										
			Subtotal									1,605	
	(7/2)	0	M										
			F										
			Subtotal									2,208	
	(7/5)	0	M										
			F										
			Subtotal									1,717	
	(7/8)	0	M										
			F										
			Subtotal									1,809	
	(7/11)	0	M										
			F										
			Subtotal									1,009	
	7/15	190	M	0	0.0	296	23.2	34	2.6	7	0.5	337	26.3
	(7/15)		F	0	0.0	841	65.8	81	6.3	20	1.6	942	73.7
			Total	0	0.0	1,138	88.9	114	8.9	27	2.1	1,279	100.0

Appendix D.5. Age and sex of chum salmon from the District 5 commercial fishery.[ab] (page 10 of 14)

Year	Sample Dates (Stratum Dates)	Sample Size	Sex	Age Class 0.2 Catch	0.2 %	0.3 Catch	0.3 %	0.4 Catch	0.4 %	0.5 Catch	0.5 %	Total Catch	Total %
	(7/18,25,27,30,	0	M										
	8/5,8,10,12,14,		F										
	16,19,21,23,26)		Subtotal									1,466	
	Season	190	M										
			F										
			Total									11,093	
1997 [d]	6/27	191	M	0	0.0	177	11.5	644	41.9	8	0.5	829	53.9
	(6/27,30)		F	0	0.0	121	7.9	579	37.7	8	0.5	708	46.1
			Subtotal	0	0.0	298	19.4	1,223	79.6	16	1.0	1,537	100.0
	7/4	105	M	33	1.0	463	13.3	1,190	34.3	0	0.0	1,686	48.6
	(7/2,4,7)		F	0	0.0	165	4.8	1,620	46.7	0	0.0	1,785	51.4
			Subtotal	33	1.0	628	18.1	2,810	81.0	0	0.0	3,471	100.0
	7/11	170	M	0	0.0	500	14.7	859	25.3	20	0.6	1,378	40.6
	(7/9,11,14)		F	0	0.0	739	21.8	1,278	37.6	0	0.0	2,018	59.4
			Subtotal	0	0.0	1,239	36.5	2,137	62.9	20	0.6	3,396	100.0
	7/18	216	M	21	0.9	392	17.6	773	34.7	10	0.5	1,195	53.7
	(7/16,18,21)		F	0	0.0	381	17.1	649	29.2	0	0.0	1,031	46.3
			Subtotal	21	0.9	773	34.7	1,422	63.9	10	0.5	2,226	100.0
	7/25	123	M	18	1.6	277	25.2	259	23.6	0	0.0	554	50.4
	(7/23,25,28,8/1,		F	0	0.0	304	27.6	241	21.9	0	0.0	545	49.6
	4,8,11,15,20,22,25)		Subtotal	18	1.6	581	52.8	500	45.5	0	0.0	1,099	100.0
	Season	805	M	72	0.6	1,808	15.4	3,725	31.8	38	0.3	5,643	48.1
			F	0	0.0	1,710	14.6	4,368	37.2	8	0.1	6,086	51.9
			Total	72	0.6	3,518	30.0	8,093	69.0	46	0.4	11,729	100.0
1998 [d]	6/30	197	M	0	0.0	2,304	55.9	335	8.1	21	0.5	2,660	64.5
	(6/30,7/3)		F	0	0.0	1,173	28.4	272	6.6	21	0.5	1,466	35.5
			Subtotal	0	0.0	3,477	84.3	607	14.7	42	1.0	4,126	100.0
	7/6	136	M	25	0.7	1,397	41.2	250	7.3	0	0.0	1,672	49.3
	(7/6,8)		F	0	0.0	1,298	38.2	399	11.8	25	0.7	1,722	50.7
			Subtotal	25	0.7	2,695	79.4	649	19.1	25	0.7	3,394	100.0
	7/13	100	M	0	0.0	1,830	40.0	137	3.0	0	0.0	1,967	43.0
	(7/10,13,15)		F	46	1.0	2,241	49.0	320	7.0	0	0.0	2,607	57.0
			Subtotal	46	1.0	4,071	89.0	457	10.0	0	0.0	4,574	100.0
	7/20	36	M	0	0.0	916	44.5	57	2.8	0	0.0	973	47.2
	(7/17,20,22,24,27,		F	0	0.0	973	47.2	115	5.5	0	0.0	1,088	52.8
	29,31,8/3,5,7,10,12,		Subtotal	0	0.0	1,889	91.7	172	8.3	0	0.0	2,061	100.0
	14,18,28,31,9/2,4)												

Appendix D.5. Age and sex of chum salmon from the District 5 commercial fishery.[ab] (page 11 of 14)

Year	Sample Dates (Stratum Dates)	Sample Size	Sex	Age Class 0.2 Catch	0.2 %	0.3 Catch	0.3 %	0.4 Catch	0.4 %	0.5 Catch	0.5 %	Total Catch	Total %
	Season	469	M	25	0.2	6,447	45.5	779	5.5	21	0.2	7,272	51.4
			F	46	0.3	5,685	40.2	1,106	7.8	46	0.3	6,883	48.6
			Total	71	0.5	12,132	85.7	1,885	13.3	67	0.5	14,155	100.0
1999 [d]	7/7,9	192	M	0	0.0	2,167	37.0	611	10.4	31	0.5	2,808	47.9
	(7/2, 7, 9)		F	0	0.0	2,229	38.0	824	14.1	0	0.0	3,053	52.1
			Subtotal	0	0.0	4,396	75.0	1,435	24.5	31	0.5	5,861	100.0
	7/12	189	M	0	0.0	1,642	40.7	299	7.4	0	0.0	1,940	48.1
	(7/12,14,16)		F	0	0.0	1,535	38.1	554	13.8	0	0.0	2,090	51.9
			Subtotal	0	0.0	3,177	78.8	853	21.2	0	0.0	4,030	100.0
	7/21	74	M	23	1.4	384	23.0	45	2.7	0	0.0	452	27.0
	(7/19,21,23,26,		F	0	0.0	948	56.7	271	16.2	0	0.0	1,219	73.0
	28,30,8/2,4,6,9,		Subtotal	23	1.4	1,332	79.7	316	18.9	0	0.0	1,671	100.0
	11,16,18,25)												
	Season	455	M	23	0.2	4,193	36.3	954	8.2	31	0.3	5,200	45.0
			F	0	0.0	4,712	40.7	1,650	14.3	0	0.0	6,362	55.0
			Total	23	0.2	8,905	77.0	2,604	22.5	31	0.3	11,562	100.0
2000 [d]	6/29	201	M	0	0.0	277	10.9	669	26.4	0	0.0	946	37.3
	(6/26,29)		F	0	0.0	505	19.9	1,072	42.3	13	0.5	1,590	62.7
			Subtotal	0	0.0	782	30.8	1,741	68.7	13	0.5	2,536	100.0
	7/6	208	M	0	0.0	766	24.1	689	21.6	0	0.0	1,455	45.7
	(7/3,6,8)		F	0	0.0	613	19.2	1,118	35.1	0	0.0	1,731	54.3
			Subtotal	0	0.0	1,379	43.3	1,807	56.7	0	0.0	3,186	100.0
	7/11	189	M	0	0.0	284	16.4	256	14.8	9	0.6	549	31.7
	(7/11-8/24)		F	0	0.0	722	41.8	448	25.9	9	0.5	1,179	68.3
			Subtotal	0	0.0	1,006	58.2	704	40.7	18	1.1	1,728	100.0
	Season	598	M	0	0.0	1,327	17.8	1,614	21.7	9	0.1	2,950	39.6
			F	0	0.0	1,840	24.7	2,639	35.4	22	0.3	4,500	60.4
			Total	0	0.0	3,167	42.5	4,253	57.1	31	0.4	7,450	100.0
2001 [d]	7/6	110	M	0	0.0	277	17.3	438	27.3	0	0.0	715	44.5
	(6/29,7/6)		F	0	0.0	423	26.3	467	29.1	0	0.0	890	55.5
			Subtotal	0	0.0	700	43.6	905	56.4	0	0.0	1,605	100.0
	7/10	153	M	0	0.0	41	13.7	20	6.5	0	0.0	61	20.3
	(7/10)		F	0	0.0	167	55.6	72	24.2	0	0.0	239	79.7
			Subtotal	0	0.0	208	69.3	92	30.7	0	0.0	300	100.0

Appendix D.5. Age and sex of chum salmon from the District 5 commercial fishery.[ab] (page 12 of 14)

Year	Sample Dates (Stratum Dates)	Sample Size	Sex	Age Class 0.2 Catch	0.2 %	0.3 Catch	0.3 %	0.4 Catch	0.4 %	0.5 Catch	0.5 %	Total Catch	Total %
	7/13	196	M	4	0.5	175	25.0	79	11.2	0	0.0	258	36.7
	(7/13)		F	0	0.0	312	44.4	132	18.9	0	0.0	444	63.3
			Subtotal	4	0.5	487	69.4	211	30.1	0	0.0	702	100.0
	7/20	188	M	2	0.5	83	24.5	20	5.9	0	0.0	104	30.9
	(7/20,23,8/1,6,		F	0	0.0	197	58.5	36	10.6	0	0.0	233	69.1
	8,10,15,18,22,24)		Subtotal	2	0.5	280	83.0	56	16.5	0	0.0	337	100.0
	Season	647	M	5	0.2	576	19.6	556	18.9	0	0.0	1,138	38.6
			F	0	0.0	1,099	37.3	708	24.0	0	0.0	1,806	61.4
			Total	5	0.2	1,675	56.9	1,264	42.9	0	0.0	2,944	100.0
2002[d]	6/27	49	M	0	0.0	511	30.6	340	20.4	0	0.0	852	51.0
	(6/27,7/1)		F	0	0.0	341	20.4	477	28.6	0	0.0	817	49.0
			Subtotal	0	0.0	852	51.0	817	49.0	0	0.0	1,669	100.0
	7/5	185	M	12	0.5	437	20.5	357	16.7	12	0.5	817	38.4
	(7/5,10,12,8/1,7,		F	0	0.0	622	29.2	645	30.3	46	2.2	1,313	61.6
	10,15,17,20,24)		Subtotal	12	0.5	1,059	49.7	1,002	47.0	58	2.7	2,130	100.0
	Season	234	M	12	0.3	949	25.0	697	18.4	12	0.3	1,669	43.9
			F	0	0.0	962	25.3	1,122	29.5	46	1.2	2,130	56.1
			Total	12	0.3	1,911	50.3	1,819	47.9	58	1.5	3,799	100.0
2003[d]	7/7	96	M	0	0.0	1,148	52.1	160	7.3	0	0.0	1,308	59.4
	(6/26,30,7/2,4,7)		F	0	0.0	757	34.4	92	4.2	46	2.1	895	40.6
			Subtotal	0	0.0	1,905	86.5	252	11.5	46	2.1	2,203	100.0
	7/9	95	M	0	0.0	973	49.5	104	5.3	62	3.2	1,139	57.9
	(7/9,11)		F	0	0.0	746	37.9	41	2.1	42	2.1	829	42.1
			Subtotal	0	0.0	1,719	87.4	145	7.4	104	5.3	1,968	100.0
	7/14	105	M	0	0.0	623	43.8	54	3.8	0	0.0	677	47.6
	(7/14,16,18,8/1,		F	0	0.0	677	47.6	68	4.8	0	0.0	745	52.4
	4,6,8,11,13,15,		Subtotal	0	0.0	1,300	91.4	122	8.6	0	0.0	1,422	100.0
	18,20,22,25,28)												
	Season	296	M	0	0.0	2,744	49.0	318	5.7	62	1.1	3,125	55.9
			F	0	0.0	2,180	39.0	201	3.6	87	1.6	2,468	44.1
			Total	0	0.0	4,924	88.0	519	9.3	149	2.7	5,593	100.0
2004[d]	6/29	63	M	51	1.6	1,229	38.1	922	28.6	0	0.0	2,202	68.3
	(6/24,29,7/1,5)		F	0	0.0	614	19.0	409	12.7	0	0.0	1,024	31.7
			Subtotal	51	1.6	1,843	57.1	1,331	41.3	0	0.0	3,226	100.0

Appendix D.5. Age and sex of chum salmon from the District 5 commercial fishery.[ab] (page 13 of 14)

Year	Sample Dates (Stratum Dates)	Sample Size	Sex	Age Class 0.2 Catch	0.2 %	0.3 Catch	0.3 %	0.4 Catch	0.4 %	0.5 Catch	0.5 %	Total Catch	Total %
	7/7	13	M										
	(7/7,9,12,14,16		F										
	8/2,4,6,9,11,13		Subtotal									2,788	
	16,18,20,23,25,27)												
	Season[c]	76	M		4.4		31.1		26.0		0.0		61.6
			F		0.0		24.5		14.0		0.0		38.4
			Total		4.4		55.6		40.0		0.0	6,014	100.0
2005[d]	6/28	19	M										
	(6/21,23,28)		F										
			Subtotal									10,602	
	7/5	86	M	92	1.2	4,306	54.6	916	11.6	0	0.0	5,313	67.4
	(6/30-8/30)		F	0	0.0	2,015	25.6	550	7.0	0	0.0	2,565	32.6
			Subtotal	92	1.2	6,321	80.2	1,466	18.6	0	0.0	7,878	100.0
	Season[c]	105	M										
			F										
			Total									18,480	
2006[d]	6/27	193	M		0.0		40.9		20.2		0.0		61.1
	(6/22-9/1)		F		0.0		18.2		20.7		0.0		38.9
	Season[c]		Total		0.0		59.1		40.9		0.0	11,568	100.0
2007	6/21	92	M	0	0.0	842	34.8	815	33.7	53	2.2	1,710	70.7
	(6/19,21,25,27)		F	0	0.0	210	8.7	500	20.6	0	0.0	710	29.3
			Subtotal	0	0.0	1,052	43.5	1,315	54.3	53	2.2	2,420	100.0
	7/4	188	M	0	0.0	416	34.0	410	33.5	7	0.6	832	68.1
	(6/29,7/2,4,6,8)		F	0	0.0	176	14.4	208	17.0	6	0.5	390	31.9
			Subtotal	0	0.0	592	48.4	618	50.5	13	1.1	1,222	100.0
	712	151	M	0	0.0	293	33.1	164	18.5	12	1.3	468	53.0
	(7/10,12,14)		F	0	0.0	246	27.8	170	19.2	0	0.0	416	47.0
			Subtotal	0	0.0	539	60.9	334	37.7	12	1.3	884	100.0
	7/18	112	M	0	0.0	695	23.2	481	16.1	0	0.0	1,176	39.3
	(7/16-8/31)		F	27	0.9	1,069	35.7	722	24.1	0	0.0	1,817	60.7
			Subtotal	27	0.9	1,764	58.9	1,203	40.2	0	0.0	2,993	100.0
	Season	543	M	0	0.0	2,245	29.9	1,870	24.9	71	0.9	4,186	55.7
			F	27	0.4	1,701	22.6	1,599	21.2	6	0.1	3,333	44.3
			Total	27	0.4	3,946	52.5	3,469	46.1	77	1.0	7,519	100.0
2008	Season	0	M										
			F					No Samples Taken					
			Total										

Appendix D.5. Age and sex of chum salmon from the District 5 commercial fishery.[ab] (page 14 of 14)

Year	Sample Dates (Stratum Dates)	Sample Size	Sex	Age Class 0.2 Catch	0.2 %	0.3 Catch	0.3 %	0.4 Catch	0.4 %	0.5 Catch	0.5 %	Total Catch	Total %
2009 [d]	6/22	97	M	0	0.0	503	24.7	1,006	49.5	42	2.1	1,550	76.3
	(6/22,25)		F	0	0.0	105	5.2	377	18.5	0	0.0	482	23.7
			Subtotal	0	0.0	608	29.9	1,383	68.0	42	2.1	2,032	100.0
	6/30	282	M	7	0.4	651	32.6	679	34.0	36	1.8	1,373	68.8
	(6/30)		F	0	0.0	248	12.4	361	18.1	14	0.7	623	31.2
			Subtotal	7	0.4	899	45.0	1,040	52.1	50	2.5	1,996	100.0
	7/6	244	M	61	2.5	556	22.5	889	36.1	41	1.7	1,546	62.7
	(7/6)		F	20	0.8	253	10.3	617	25.0	30	1.2	920	37.3
			Subtotal	81	3.3	809	32.8	1,506	61.1	71	2.9	2,466	100.0
	7/8	213	M	63	3.7	410	24.4	489	29.1	71	4.2	1,033	61.5
	(7/8)		F	8	0.5	308	18.3	331	19.7	0	0.0	647	38.5
			Subtotal	71	4.2	718	42.7	820	48.8	71	4.2	1,680	100.0
	7/10	217	M	14	0.9	395	26.3	479	31.8	42	2.8	930	61.8
	(7/10)		F	7	0.5	250	16.6	305	20.3	14	0.9	576	38.2
			Subtotal	21	1.4	645	42.9	784	52.1	56	3.7	1,506	100.0
	7/13	215	M	170	2.3	1,937	26.5	1,937	26.5	68	0.9	4,111	56.3
	(7/13,15-17,20,22,24,		F	0	0.0	1,189	16.3	1,970	27.0	34	0.5	3,194	43.7
	25,27,29,31,8/3,5,7,		Subtotal	170	2.3	3,126	42.8	3,907	53.5	102	1.4	7,305	100.0
	10,12,14,19,21,24)												
	Season	1,268	M	315	1.9	4,452	26.2	5,479	32.3	298	1.8	10,544	62.1
			F	35	0.2	2,352	13.9	3,962	23.3	93	0.5	6,441	37.9
			Total	350	2.1	6,804	40.1	9,441	55.6	391	2.3	16,985	100.0
	Grand	8,452	M	785	0.4	54,554	26.4	46,993	22.7	1,431	0.7	103,760	50.2
	Total [e]		F	311	0.2	51,035	24.7	50,870	24.6	789	0.4	103,004	49.8
			Total	1,097	0.5	105,589	51.1	97,864	47.3	2,220	1.1	206,759	100.0

[a] The number of fish in each stratum age and sex category are derived from the sample percentages; discrepancies in sums are attributed to rounding errors.

[b] The number of fish in "Season" summaries are the strata sums; "Season" percentages are derived from the sums.

[c] Sampling dates do not meet criteria for estimating commercial harvest percentages for some or all of the strata; "Season is not included in the "Grand total".

[d] Sex of all fish was confirmed by visual inspection of gonads.

[e] The number of fish in the "Grand total" are the sum of the "Season" totals; percentages are derived from those sums.

Appendix D.6. Mean length (mm) of chum salmon from the District 5 commercial fishery. (page 1 of 25)

Year	Sample Dates (Stratum Dates)	Sex		Age Class 0.2	0.3	0.4	0.5
1984 [a]	7/13 (7/13)	M	Mean Length		582	596	604
			Std. Error		5	9	11
			Range		524- 635	559- 685	589- 635
			Sample Size	0	35	17	4
		F	Mean Length		556	579	
			Std. Error		4	3	
			Range		513- 603	558- 605	
			Sample Size	0	41	17	0
	7/16 (7/16)	M	Mean Length		591	603	617
			Std. Error		5	6	7
			Range		520- 680	515- 637	610- 624
			Sample Size	0	45	25	2
		F	Mean Length	533	570	588	610
			Std. Error	27	3	6	-
			Range	506- 560	505- 642	530- 656	610- 610
			Sample Size	2	53	23	1
	7/20 (7/20)	M	Mean Length		586	598	645
			Std. Error		4	6	30
			Range		504- 689	539- 655	615- 675
			Sample Size	0	55	24	2
		F	Mean Length		565	574	595
			Std. Error		3	9	50
			Range		486- 629	537- 663	545- 645
			Sample Size	0	79	14	2
	7/25 (7/25)	M	Mean Length		587	601	
			Std. Error		12	20	
			Range		551- 642	564- 650	
			Sample Size	0	7	4	0
		F	Mean Length		574	607	
			Std. Error		12	11	
			Range		553- 609	588- 625	
			Sample Size	0	4	3	0
1985 [a]	7/2 (7/2)	M	Mean Length		609	617	
			Std. Error		7	9	
			Range		577- 652	599- 626	
			Sample Size	0	11	3	0
		F	Mean Length		589	580	
			Std. Error		12	7	
			Range		545- 630	543- 613	
			Sample Size	0	7	12	0

Appendix D.6. Mean length (mm) of chum salmon from the District 5 commercial fishery. (page 2 of 25)

Year	Sample Dates (Stratum Dates)	Sex		Age Class 0.2	0.3	0.4	0.5
	7/9	M	Mean Length		596	615	
	(7/9)		Std. Error		5	7	
			Range		529- 658	578- 654	
			Sample Size	0	30	13	0
		F	Mean Length		581	591	
			Std. Error		6	11	
			Range		530- 616	550- 682	
			Sample Size	0	16	12	0
	7/11	M	Mean Length		592	608	
	(7/11)		Std. Error		7	6	
			Range		553- 632	593- 621	
			Sample Size	0	12	5	0
		F	Mean Length		572	568	
			Std. Error		5	8	
			Range		525- 602	548- 590	
			Sample Size	0	14	6	0
	7/15	M	Mean Length		583	597	
	(7/15)		Std. Error		8	7	
			Range		512- 652	550- 648	
			Sample Size	0	19	15	0
		F	Mean Length		566	578	627
			Std. Error		4	4	-
			Range		530- 648	525- 632	627- 627
			Sample Size	0	34	36	1
	8/1	M	Mean Length		602	581	
	(8/1,5,8,12,14,16		Std. Error		11	11	
	19,21,26,28,30,9/2)		Range		586- 622	565- 602	
			Sample Size	0	3	3	0
		F	Mean Length		564	582	
			Std. Error		6	6	
			Range		540- 600	561- 604	
			Sample Size	0	10	8	0
1986	6/19	M	Mean Length		605	608	
	(6/19,23,26)		Std. Error		5	10	
			Range		592- 628	565- 643	
			Sample Size	0	7	9	0
		F	Mean Length		586	578	658
			Std. Error		12	9	-
			Range		563- 625	556- 601	658- 658
			Sample Size	0	5	5	1

Appendix D.6. Mean length (mm) of chum salmon from the District 5 commercial fishery. (page 3 of 25)

Year	Sample Dates (Stratum Dates)	Sex		Age Class 0.2	0.3	0.4	0.5
	7/8 (7/8)	M	Mean Length		607	628	
			Std. Error		6	11	
			Range		541- 700	597- 690	
			Sample Size	0	41	8	0
		F	Mean Length		573	599	
			Std. Error		7	7	
			Range		507- 618	560- 644	
			Sample Size	0	16	12	0
	7/11 (7/11)	M	Mean Length	552	593	613	614
			Std. Error	-	4	4	-
			Range	552- 552	547- 669	577- 627	614- 614
			Sample Size	1	39	11	1
		F	Mean Length	547	573	598	610
			Std. Error	17	3	9	-
			Range	530- 563	521- 610	560- 632	610- 610
			Sample Size	2	46	9	1
	7/14 (7/14)	M	Mean Length		595	596	
			Std. Error		7	21	
			Range		537- 635	538- 632	
			Sample Size	0	15	4	0
		F	Mean Length		570	574	
			Std. Error		5	6	
			Range		536- 610	560- 590	
			Sample Size	0	22	4	0
	7/17 (7/17,19,21,23,25, 28,30,8/1,4,6,8,11, 13,15,18,20,22,25, 29,9/2,4)	M	Mean Length		591	616	
			Std. Error		4	8	
			Range		555- 630	575- 660	
			Sample Size	0	31	11	0
		F	Mean Length		567	571	
			Std. Error		3	7	
			Range		535- 600	535- 620	
			Sample Size	0	38	14	0
	Season [c]	M	Mean Length	552	598	613	614
			Range	552- 552	537- 700	538- 690	614- 614
			Sample Size	1	133	43	1
		F	Mean Length	547	571	581	651
			Range	530- 563	507- 625	535- 644	610- 658
			Sample Size	2	127	44	2

Appendix D.6. Mean length (mm) of chum salmon from the District 5 commercial fishery. (page 4 of 25)

Year	Sample Dates (Stratum Dates)	Sex		Age Class 0.2	0.3	0.4	0.5
1987	6/24 (6/18,24)	M	Mean Length		612	635	
			Std. Error		5	6	
			Range		575- 665	584- 725	
			Sample Size	0	21	27	0
		F	Mean Length		602	613	
			Std. Error		11	5	
			Range		564- 700	563- 666	
			Sample Size	0	14	28	0
	6/30 (6/30,7/3)	M	Mean Length		609	645	
			Std. Error		7	8	
			Range		578- 643	612- 680	
			Sample Size	0	10	8	0
		F	Mean Length		573	587	
			Std. Error		10	13	
			Range		523- 675	512- 618	
			Sample Size	0	15	7	0
	7/7 (7/7)	M	Mean Length		583	613	
			Std. Error		7	9	
			Range		520- 650	550- 695	
			Sample Size	0	24	13	0
		F	Mean Length		568	588	
			Std. Error		4	8	
			Range		505- 610	540- 625	
			Sample Size	0	27	11	0
	7/11 (7/11)	M	Mean Length		583	604	
			Std. Error		5	8	
			Range		525- 690	540- 665	
			Sample Size	0	53	15	0
		F	Mean Length		566	582	
			Std. Error		3	5	
			Range		520- 615	560- 635	
			Sample Size	0	30	14	0
	7/15 (7/15,20,8/3,10,13, 17,19,21,24,26,28, 31,9/2,4)	M	Mean Length		578	587	
			Std. Error		3	10	
			Range		535- 645	540- 670	
			Sample Size	0	52	14	0
		F	Mean Length		568	580	
			Std. Error		5	5	
			Range		515- 635	550- 600	
			Sample Size	0	37	10	0

Appendix D.6. Mean length (mm) of chum salmon from the District 5 commercial fishery. (page 5 of 25)

Year	Sample Dates (Stratum Dates)	Sex		Age Class 0.2	0.3	0.4	0.5
	Season [c]	M	Mean Length		588	620	
			Range		520- 690	540- 725	
			Sample Size	0	160	77	0
		F	Mean Length		570	589	
			Range		505- 700	512- 666	
			Sample Size	0	123	70	0
1988	6/16 (6/16)	M	Mean Length		622	638	643
			Std. Error		-	6	-
			Range		622- 622	592- 688	643- 643
			Sample Size	0	1	20	1
		F	Mean Length		617	607	
			Std. Error		-	6	
			Range		617- 617	559- 646	
			Sample Size	0	1	16	0
	6/20 (6/20)	M	Mean Length		644	627	614
			Std. Error		14	5	14
			Range		620- 669	580- 680	600- 628
			Sample Size	0	3	27	2
		F	Mean Length		562	590	617
			Std. Error		-	6	20
			Range		562- 562	538- 633	597- 637
			Sample Size	0	1	19	2
	6/23 (6/23)	M	Mean Length		662	643	640
			Std. Error		-	10	-
			Range		662- 662	585- 712	640- 640
			Sample Size	0	1	12	1
		F	Mean Length		589	603	
			Std. Error		9	5	
			Range		580- 606	557- 640	
			Sample Size	0	3	20	0
	6/28 (6/28)	M	Mean Length		608	620	
			Std. Error		15	6	
			Range		590- 638	561- 660	
			Sample Size	0	3	23	0
		F	Mean Length		595	594	
			Std. Error		5	4	
			Range		590- 600	550- 662	
			Sample Size	0	2	29	0

Appendix D.6. Mean length (mm) of chum salmon from the District 5 commercial fishery. (page 6 of 25)

Year	Sample Dates (Stratum Dates)	Sex		Age Class 0.2	0.3	0.4	0.5
	7/2 (7/2,5)	M	Mean Length		627	619	645
			Std. Error		7	4	-
			Range		600- 660	570- 661	645- 645
			Sample Size	0	11	35	1
		F	Mean Length		587	589	
			Std. Error		8	4	
			Range		502- 632	542- 630	
			Sample Size	0	13	27	0
	7/8 (7/8)	M	Mean Length	545	599	613	
			Std. Error	15	5	7	
			Range	530- 560	570- 615	575- 685	
			Sample Size	2	8	16	0
		F	Mean Length		566	590	
			Std. Error		5	4	
			Range		530- 590	545- 640	
			Sample Size	0	13	36	0
	7/11 (7/11,14,18,25,29, 8/1,3,5,8,10,12,15, 17,19,22,24,26,29, 31,9/2,5,7,9)	M	Mean Length	560	595	611	
			Std. Error	-	7	9	
			Range	560- 560	560- 660	540- 720	
			Sample Size	1	17	25	0
		F	Mean Length	545	567	580	
			Std. Error	-	3	4	
			Range	545- 545	525- 610	510- 625	
			Sample Size	1	31	44	0
	Season [c]	M	Mean Length	551	619	626	633
			Range	530- 560	560- 669	540- 720	600- 645
			Sample Size	3	44	158	5
		F	Mean Length	545	580	595	617
			Range	545- 545	502- 632	510- 662	597- 637
			Sample Size	1	64	191	2
1989	6/19 (6/19)	M	Mean Length		611	641	616
			Std. Error		6	6	6
			Range		562- 674	603- 718	610- 621
			Sample Size	0	24	23	2
		F	Mean Length		595	626	611
			Std. Error		7	5	3
			Range		572- 609	590- 655	608- 613
			Sample Size	0	5	14	2

Appendix D.6. Mean length (mm) of chum salmon from the District 5 commercial fishery. (page 7 of 25)

Year	Sample Dates (Stratum Dates)	Sex		Age Class 0.2	0.3	0.4	0.5
	6/23 (6/23,26)	M	Mean Length		606	630	643
			Std. Error		4	5	21
			Range		583- 626	567- 678	611- 703
			Sample Size	0	11	30	4
		F	Mean Length		569	603	611
			Std. Error		8	8	-
			Range		497- 601	570- 668	611- 611
			Sample Size	0	13	11	1
	6/30 (6/30,7/3)	M	Mean Length		585	616	617
			Std. Error		9	8	7
			Range		535- 650	567- 675	610- 624
			Sample Size	0	15	17	2
		F	Mean Length		567	612	
			Std. Error		9	11	
			Range		540- 599	580- 680	
			Sample Size	0	7	9	0
	7/7 (7/5,7,10)	M	Mean Length		608	621	
			Std. Error		9	7	
			Range		539- 704	569- 695	
			Sample Size	0	21	23	0
		F	Mean Length		575	602	
			Std. Error		5	5	
			Range		551- 601	563- 641	
			Sample Size	0	12	16	0
	7/14 (7/14)	M	Mean Length		580	610	
			Std. Error		7	8	
			Range		534- 641	558- 668	
			Sample Size	0	20	15	0
		F	Mean Length		568	574	
			Std. Error		10	5	
			Range		523- 628	541- 618	
			Sample Size	0	12	19	0
	7/21 (7/21,24)	M	Mean Length		570	594	
			Std. Error		6	7	
			Range		505- 628	521- 634	
			Sample Size	0	31	17	0
		F	Mean Length	547	552	566	
			Std. Error	-	7	9	
			Range	547- 547	430- 631	505- 607	
			Sample Size	1	26	14	0

Appendix D.6. Mean length (mm) of chum salmon from the District 5 commercial fishery. (page 8 of 25)

Year	Sample Dates (Stratum Dates)	Sex		Age Class 0.2	0.3	0.4	0.5
	7/27,31	M	Mean Length	515	570	607	
	(7/27,31,8/2,4,7,		Std. Error	-	7	6	
	9,11,14,16,18,21,		Range	515- 515	488- 621	566- 684	
	23,25,28,30,9/1)		Sample Size	1	23	22	0
		F	Mean Length		554	581	611
			Std. Error		3	4	-
			Range		528- 596	531- 633	611- 611
			Sample Size	0	38	40	1
	Season [c]	M	Mean Length	515	594	620	630
			Range	515- 515	488- 704	521- 718	610- 703
			Sample Size	1	145	147	8
		F	Mean Length	547	568	596	611
			Range	547- 547	430- 631	505- 680	608- 613
			Sample Size	1	113	123	4
1990	6/20	M	Mean Length		591	645	
	(6/20)		Std. Error		6	33	
			Range		566- 630	596- 708	
			Sample Size	0	11	3	0
		F	Mean Length		574		
			Std. Error		26		
			Range		547- 600		
			Sample Size	0	2	0	0
	6/25	M	Mean Length		603	614	
	(6/25)		Std. Error		4	7	
			Range		575- 629	573- 655	
			Sample Size	0	17	12	0
		F	Mean Length		590	592	
			Std. Error		8	11	
			Range		545- 670	547- 629	
			Sample Size	0	16	8	0
	6/29	M	Mean Length		609	639	
	(6/29)		Std. Error		6	9	
			Range		565- 660	587- 720	
			Sample Size	0	22	15	0
		F	Mean Length		581	603	
			Std. Error		4	10	
			Range		545- 633	572- 620	
			Sample Size	0	30	5	0

Appendix D.6. Mean length (mm) of chum salmon from the District 5 commercial fishery. (page 9 of 25)

Year	Sample Dates (Stratum Dates)	Sex		Age Class 0.2	0.3	0.4	0.5
	7/5	M	Mean Length	556	582	595	
	(7/2,5,7,9)		Std. Error	-	4	9	
			Range	556- 556	525- 643	543- 648	
			Sample Size	1	57	15	0
		F	Mean Length		560	560	
			Std. Error		3	13	
			Range		511- 596	521- 606	
			Sample Size	0	30	7	0
	7/16	M	Mean Length		583	613	
	(7/11,13,16,18)		Std. Error		10	15	
			Range		537- 665	560- 670	
			Sample Size	0	16	7	0
		F	Mean Length		575	583	
			Std. Error		4	10	
			Range		532- 618	567- 600	
			Sample Size	0	38	3	0
	7/23	M	Mean Length		577	561	580
	(7/20-21,23-28,		Std. Error		9	16	-
	30-31,8/1-3,6,8,		Range		545- 630	510- 595	580- 580
	10,13,20,27,29)		Sample Size	0	11	5	1
		F	Mean Length		566	563	
			Std. Error		10	7	
			Range		500- 655	540- 575	
			Sample Size	0	15	5	0
	Season [c]	M	Mean Length	556	586	606	580
			Range	556- 556	525- 665	510- 720	580- 580
			Sample Size	1	134	57	1
		F	Mean Length		571	574	
			Range		500- 670	521- 629	
			Sample Size	0	131	28	0
1991	6/20	M	Mean Length	550	595	621	
	(6/20)		Std. Error	-	5	7	
			Range	550- 550	553- 662	585- 660	
			Sample Size	1	24	10	0
		F	Mean Length		602	597	
			Std. Error		9	12	
			Range		570- 642	531- 665	
			Sample Size	0	9	12	0

Appendix D.6. Mean length (mm) of chum salmon from the District 5 commercial fishery. (page 10 of 25)

Year	Sample Dates (Stratum Dates)	Sex		Age Class 0.2	0.3	0.4	0.5
	6/27	M	Mean Length		590	606	
	(6/27)		Std. Error		5	6	
			Range		557- 651	564- 662	
			Sample Size	0	20	20	0
		F	Mean Length		563	607	
			Std. Error		5	8	
			Range		540- 592	580- 657	
			Sample Size	0	12	11	0
	7/1	M	Mean Length		602	617	
	(7/1)		Std. Error		4	9	
			Range		550- 688	557- 685	
			Sample Size	0	45	16	0
		F	Mean Length	568	576	586	
			Std. Error	-	3	6	
			Range	568- 568	547- 610	550- 627	
			Sample Size	1	39	16	0
	7/6	M	Mean Length		592	603	
	(7/6,8)		Std. Error		7	12	
			Range		552- 640	578- 647	
			Sample Size	0	14	5	0
		F	Mean Length		562	600	
			Std. Error		7	5	
			Range		525- 630	587- 612	
			Sample Size	0	18	6	0
	7/11	M	Mean Length		573	602	
	(7/11)		Std. Error		7	38	
			Range		540- 621	564- 640	
			Sample Size	0	12	2	0
		F	Mean Length		555	573	
			Std. Error		5	2	
			Range		520- 593	571- 575	
			Sample Size	0	20	2	0
	7/13	M	Mean Length	593	568	584	
	(7/13-14)		Std. Error	-	3	10	
			Range	593- 593	528- 610	507- 638	
			Sample Size	1	33	12	0
		F	Mean Length		551	578	
			Std. Error		4	11	
			Range		512- 590	546- 608	
			Sample Size	0	23	5	0

Appendix D.6. Mean length (mm) of chum salmon from the District 5 commercial fishery. (page 11 of 25)

Year	Sample Dates (Stratum Dates)	Sex		Age Class 0.2	0.3	0.4	0.5
	7/22 (7/17-20,22,23)	M	Mean Length	537	575	585	
			Std. Error	6	4	-	
			Range	528- 548	516- 672	585- 585	
			Sample Size	3	42	1	0
		F	Mean Length	534	553	573	
			Std. Error	-	3	12	
			Range	534- 534	500- 611	547- 600	
			Sample Size	1	46	4	0
	7/26,31 (7/24-27,29-31, 8/1-2,5,9,14,16, 19,21)	M	Mean Length		559	580	
			Std. Error		5	12	
			Range		525- 612	540- 624	
			Sample Size	0	22	8	0
		F	Mean Length	527	538	547	
			Std. Error	4	4	6	
			Range	522- 535	483- 592	514- 577	
			Sample Size	3	37	9	0
	Season [c]	M	Mean Length	547	577	596	
			Range	528- 593	516- 688	507- 685	
			Sample Size	5	212	74	0
		F	Mean Length	532	554	582	
			Range	522- 568	483- 642	514- 665	
			Sample Size	5	204	65	0
1992	6/22 (6/22,25)	M	Mean Length		631	577	611
			Std. Error		-	8	-
			Range		631- 631	551- 618	611- 611
			Sample Size	0	1	9	1
		F	Mean Length			576	575
			Std. Error			6	-
			Range			546- 606	575- 575
			Sample Size	0	0	12	1
	7/2 (6/29,7/2,6)	M	Mean Length		585	590	
			Std. Error		15	5	
			Range		570- 600	563- 621	
			Sample Size	0	2	15	0
		F	Mean Length		552	570	
			Std. Error		10	4	
			Range		532- 562	525- 622	
			Sample Size	0	3	33	0

Appendix D.6. Mean length (mm) of chum salmon from the District 5 commercial fishery. (page 12 of 25)

Year	Sample Dates (Stratum Dates)	Sex		Age Class 0.2	0.3	0.4	0.5
	7/13	M	Mean Length		565	591	
	(7/9-10,13-14)		Std. Error		9	5	
			Range		536- 589	537- 648	
			Sample Size	0	5	29	0
		F	Mean Length		562	557	
			Std. Error		8	6	
			Range		524- 617	523- 634	
			Sample Size	0	12	22	0
	7/16	M	Mean Length		566	577	
	(7/16-17)		Std. Error		10	6	
			Range		520- 593	527- 633	
			Sample Size	0	6	23	0
		F	Mean Length		535	551	
			Std. Error		8	4	
			Range		490- 576	513- 584	
			Sample Size	0	11	26	0
	7/20	M	Mean Length		568	569	
	(7/20-21)		Std. Error		22	52	
			Range		525- 598	517- 621	
			Sample Size	0	3	2	0
		F	Mean Length		593	552	655
			Std. Error		3	10	-
			Range		590- 596	510- 580	655- 655
			Sample Size	0	2	6	1
	7/23	M	Mean Length		555	582	
	(7/23-24)		Std. Error		6	5	
			Range		500- 600	498- 660	
			Sample Size	0	20	46	0
		F	Mean Length		542	556	593
			Std. Error		5	3	28
			Range		503- 589	491- 606	565- 621
			Sample Size	0	24	73	2
	7/30	M	Mean Length		566	557	
	(7/27,28,30,31,		Std. Error		11	6	
	8/3,6,10,14,20,		Range		550- 598	531- 588	
	24,27,28,31,9/4)		Sample Size	0	4	10	0
		F	Mean Length		534	568	
			Std. Error		10	7	
			Range		524- 544	539- 631	
			Sample Size	0	2	12	0

Appendix D.6. Mean length (mm) of chum salmon from the District 5 commercial fishery. (page 13 of 25)

Year	Sample Dates (Stratum Dates)	Sex		Age Class 0.2	0.3	0.4	0.5
	Season [c]	M	Mean Length		580	585	611
			Range		500- 631	498- 660	611- 611
			Sample Size	0	41	134	1
		F	Mean Length		556	567	591
			Range		490- 617	491- 634	565- 655
			Sample Size	0	54	184	4
1993 [a]	7/9	M	Mean Length	640	572	584	591
	(7/9)		Std. Error	-	4	4	8
			Range	640- 640	505- 610	540- 650	545- 640
			Sample Size	1	33	42	11
		F	Mean Length		558	559	583
			Std. Error		4	3	11
			Range		470- 605	485- 610	565- 635
			Sample Size	0	45	51	6
1994 [a]	7/6	M	Mean Length		596	600	640
	(7/6)		Std. Error		5	10	-
			Range		540- 685	535- 655	640- 640
			Sample Size	0	36	13	1
		F	Mean Length		575	579	600
			Std. Error		3	4	19
			Range		490- 655	530- 655	545- 660
			Sample Size	0	89	45	5
	7/11-12	M	Mean Length	575	585	584	
	(7/11-12)		Std. Error	-	5	6	
			Range	575- 575	535- 650	550- 620	
			Sample Size	1	34	14	0
		F	Mean Length	550	566	562	588
			Std. Error	-	3	4	3
			Range	550- 550	505- 640	505- 610	585- 590
			Sample Size	1	99	40	2
	7/21	M	Mean Length		584	561	534
	(7/21)		Std. Error		7	11	8
			Range		515- 672	507- 627	526- 542
			Sample Size	0	26	11	2
		F	Mean Length	548	544	561	565
			Std. Error	-	3	9	25
			Range	548- 548	482- 590	506- 623	529- 638
			Sample Size	1	70	16	4

Appendix D.6. Mean length (mm) of chum salmon from the District 5 commercial fishery. (page 14 of 25)

Year	Sample Dates (Stratum Dates)	Sex		Age Class 0.2	0.3	0.4	0.5
1995 [a]	7/7 (7/7-8)	M	Mean Length	550	603	609	620
			Std. Error	-	6	6	-
			Range	550- 550	565- 680	540- 670	620- 620
			Sample Size	1	24	38	1
		F	Mean Length	561	563	578	600
			Std. Error	10	5	3	30
			Range	545- 590	525- 610	525- 620	570- 630
			Sample Size	4	29	77	2
	7/17 (7/17-18)	M	Mean Length	562	585	593	605
			Std. Error	8	6	6	35
			Range	515- 610	510- 660	510- 685	570- 640
			Sample size	16	30	38	2
		F	Mean Length	539	562	575	
			Std. Error	10	5	3	
			Range	515- 580	510-615	520- 630	
			Sample size	6	37	56	0
1996 [a]	7/15 (7/15)	M	Mean Length		604	601	615
			Std. Error		4	17	-
			Range		550- 660	545- 645	615- 615
			Sample size	0	44	5	1
		F	Mean Length		569	571	577
			Std. Error		2	8	13
			Range		515- 640	525- 610	555- 600
			Sample size	0	125	12	3
1997 [c]	6/27 [b] (6/27,30)	M	Mean Length		595	618	654
			Std. Error		6	3	-
			Range		551- 661	561- 685	654- 654
			Sample Size	0	22	80	1
		F	Mean Length		567	590	620
			Std. Error		3	3	-
			Range		537- 582	530- 643	620- 620
			Sample Size	0	15	72	1
	7/4 [b] (7/2,4,7)	M	Mean Length	573	573	607	
			Std. Error	-	6	5	
			Range	573- 573	529- 610	539- 656	
			Sample Size	1	14	36	0
		F	Mean Length		559	578	
			Std. Error		8	4	
			Range		540- 585	499- 635	
			Sample Size	0	5	49	0

Appendix D.6. Mean length (mm) of chum salmon from the District 5 commercial fishery. (page 15 of 25)

Year	Sample Dates (Stratum Dates)	Sex		Age Class 0.2	0.3	0.4	0.5
	7/11 (7/9,11,14)	M	Mean Length		583	605	675
			Std. Error		7	4	-
			Range		520- 660	520- 640	675- 675
			Sample Size	0	25	43	1
		F	Mean Length		569	580	
			Std. Error		4	3	
			Range		525- 615	530- 625	
			Sample Size	0	37	64	0
	7/18 (7/16,18,21)	M	Mean Length	553	580	601	560
			Std. Error	3	4	4	-
			Range	550- 555	500- 625	500- 665	560- 560
			Sample Size	2	38	75	1
		F	Mean Length		563	575	
			Std. Error		3	3	
			Range		515- 596	495- 630	
			Sample Size	0	37	63	0
	7/25 (7/23,25,28,8/1,4, 8,11,15,20,22,25)	M	Mean Length	525	565	586	
			Std. Error	10	5	5	
			Range	515- 535	515- 615	525- 630	
			Sample Size	2	31	29	0
		F	Mean Length		552	568	
			Std. Error		5	5	
			Range		475- 605	525- 630	
			Sample Size	0	34	27	0
	Season	M	Mean Length	555	578	606	640
			Range	515- 573	500- 661	500- 685	560- 675
			Sample Size	5	130	263	3
		F	Mean Length		564	579	620
			Range		475- 615	495- 643	620- 620
			Sample Size	0	128	275	1
1998 [c]	6/30 [b] (6/30,7/3)	M	Mean Length		592	614	639
			Std. Error		2	7	-
			Range		534- 637	570- 665	639- 639
			Sample Size	0	110	16	1
		F	Mean Length		577	580	580
			Std. Error		3	6	-
			Range		534- 623	545- 620	580- 580
			Sample Size	0	56	13	1

Appendix D.6. Mean length (mm) of chum salmon from the District 5 commercial fishery. (page 16 of 25)

Year	Sample Dates (Stratum Dates)	Sex		Age Class 0.2	0.3	0.4	0.5
	7/6 [b] (7/6,8)	M	Mean Length	522	594	605	
			Std. Error	-	4	6	
			Range	522- 522	505- 684	576- 634	
			Sample Size	1	56	10	0
		F	Mean Length		566	572	591
			Std. Error		3	5	-
			Range		456- 614	536- 612	591- 591
			Sample Size	0	52	16	1
	7/13 (7/10,13,15)	M	Mean Length		576	587	
			Std. Error		4	11	
			Range		535- 665	565- 600	
			Sample Size	0	40	3	0
		F	Mean Length	565	553	584	
			Std. Error	-	3	9	
			Range	565- 565	500- 595	560- 630	
			Sample Size	1	49	7	0
	7/20 (7/17,20,22,24,27, 29,31,8/3,5,7,10,12, 14,18,28,31,9/2,4)	M	Mean Length		571	585	
			Std. Error		6	-	
			Range		520- 617	585- 585	
			Sample Size	0	16	1	0
		F	Mean Length		548	530	
			Std. Error		5	5	
			Range		520- 587	525- 535	
			Sample Size	0	17	2	0
	Season	M	Mean Length	522	585	604	639
			Range	522- 522	505- 684	565- 665	639- 639
			Sample Size	1	222	30	1
		F	Mean Length	565	560	573	586
			Range	565- 565	456- 623	525- 630	580- 591
			Sample Size	1	174	38	2
1999 [c]	7/7,9 [b] (7/2,7,9)	M	Mean Length		589	615	650
			Std. Error		3	6	-
			Range		519- 651	579- 668	650- 650
			Sample Size	0	71	20	1
		F	Mean Length		568	579	
			Std. Error		2	4	
			Range		505- 610	545- 629	
			Sample Size	0	73	27	0

Appendix D.6. Mean length (mm) of chum salmon from the District 5 commercial fishery. (page 17 of 25)

Year	Sample Dates (Stratum Dates)	Sex		Age Class 0.2	0.3	0.4	0.5
	7/12 [b], (7/12,14,16)	M	Mean Length		589	607	
			Std. Error		3	8	
			Range		528- 645	558- 648	
			Sample Size	0	77	14	0
		F	Mean Length		567	578	
			Std. Error		2	3	
			Range		531- 602	540- 612	
			Sample Size	0	72	26	0
	7/21 (7/19,21,23,26, 28,30,8/2,4,6, 9,11,16,18,25)	M	Mean Length	523	587	614	
			Std. Error	-	5	1	
			Range	523- 523	556- 618	612- 615	
			Sample Size	1	17	2	0
		F	Mean Length		557	573	
			Std. Error		3	10	
			Range		504- 599	522- 630	
			Sample Size	0	42	12	0
	Season	M	Mean Length	523	589	612	650
			Range	523- 523	519- 651	558- 668	650- 650
			Sample Size	1	165	36	1
		F	Mean Length		565	578	
			Range		504- 610	522- 630	
			Sample Size	0	187	65	0
2000 [c]	6/29 (6/26,29)	M	Mean Length		611	632	
			Std. Error		5	5	
			Range		574- 663	532- 723	
			Sample Size	0	22	53	0
		F	Mean Length		589	603	616
			Std. Error		5	3	-
			Range		528- 683	540- 697	616- 616
			Sample Size	0	40	85	1
	7/6 (7/3,6,8)	M	Mean Length		608	624	
			Std. Error		3	4	
			Range		570- 660	570- 700	
			Sample Size	0	50	45	0
		F	Mean Length		578	595	
			Std. Error		4	3	
			Range		505- 620	520- 680	
			Sample Size	0	40	73	0

Appendix D.6. Mean length (mm) of chum salmon from the District 5 commercial fishery. (page 18 of 25)

Year	Sample Dates (Stratum Dates)	Sex		Age Class 0.2	0.3	0.4	0.5
	7/11 (7/11-8/24)	M	Mean Length		610	628	621
			Std. Error		4	6	-
			Range		557- 657	563- 677	621- 621
			Sample Size	0	31	28	1
		F	Mean Length		573	593	559
			Std. Error		2	4	-
			Range		527- 625	552- 663	559- 559
			Sample Size	0	79	49	1
	Season	M	Mean Length		609	628	621
			Range		557- 663	532- 723	621- 621
			Sample Size	0	103	126	1
		F	Mean Length		579	598	592
			Range		505- 683	520- 697	559- 616
			Sample Size	0	159	207	2
2001 [c]	7/6 (6/29,7/6)	M	Mean Length		597	625	
			Std. Error		7	5	
			Range		550- 645	555- 670	
			Sample Size	0	19	30	0
		F	Mean Length		576	588	
			Std. Error		5	4	
			Range		535- 625	540- 650	
			Sample Size	0	29	32	0
	7/10 (7/10)	M	Mean Length		602	617	
			Std. Error		4	6	
			Range		567- 633	587- 652	
			Sample Size	0	21	10	0
		F	Mean Length		565	585	
			Std. Error		2	3	
			Range		513- 619	548- 643	
			Sample Size	0	85	37	0
	7/13 (7/13)	M	Mean Length	565	593	612	
			Std. Error	-	4	5	
			Range	565- 565	517- 696	574- 654	
			Sample Size	1	49	22	0
		F	Mean Length		567	577	
			Std. Error		2	4	
			Range		521- 617	530- 641	
			Sample Size	0	87	37	0

Appendix D.6. Mean length (mm) of chum salmon from the District 5 commercial fishery. (page 19 of 25)

Year	Sample Dates (Stratum Dates)	Sex		Age Class 0.2	0.3	0.4	0.5
	7/20 (7/20,23,8/1,6, 8,10,15,18,22,24)	M	Mean Length	509	580	597	
			Std. Error	-	4	11	
			Range	509- 509	514- 650	534- 671	
			Sample Size	1	46	11	0
		F	Mean Length		554	573	
			Std. Error		2	6	
			Range		509- 606	514- 619	
			Sample Size	0	110	20	0
	Season	M	Mean Length	546	593	622	
			Range	509- 565	514- 696	534- 671	
			Sample Size	2	135	73	0
		F	Mean Length		568	585	
			Range		509- 625	514- 650	
			Sample Size	0	311	126	0
2002 [c]	6/27 (6/27,7/1)	M	Mean Length		594	617	
			Std. Error		6	8	
			Range		561- 638	573- 663	
			Sample Size	0	15	10	0
		F	Mean Length		579	589	
			Std. Error		6	6	
			Range		544- 596	552- 649	
			Sample Size	0	10	14	0
	7/5 (7/5,10,12,8/1,7, 10,15,17,20,24)	M	Mean Length	534	588	609	616
			Std. Error	-	5	6	-
			Range	534- 534	512- 651	535- 670	616- 616
			Sample Size	1	38	31	1
		F	Mean Length		574	585	587
			Std. Error		4	4	5
			Range		521- 690	546- 696	575- 600
			Sample Size	0	54	56	4
	Season	M	Mean Length	534	592	613	616
			Range	534- 534	512- 651	535- 670	616- 616
			Sample Size	1	53	41	1
		F	Mean Length		576	587	587
			Range		521- 690	546- 696	575- 600
			Sample Size	0	64	70	4

Appendix D.6. Mean length (mm) of chum salmon from the District 5 commercial fishery. (page 20 of 25)

Year	Sample Dates (Stratum Dates)	Sex		Age Class 0.2	0.3	0.4	0.5
2003 [c]	7/7 (6/26,30,7/2,4,7)	M	Mean Length		575	595	
			Std. Error		4	13	
			Range		510- 625	550- 645	
			Sample Size	0	50	7	0
		F	Mean Length		557	571	573
			Std. Error		3	15	3
			Range		525- 600	545- 605	570- 575
			Sample Size	0	33	4	2
	7/9 (7/9,11)	M	Mean Length		564	590	592
			Std. Error		4	13	8
			Range		515- 635	560- 625	575- 600
			Sample Size	0	47	5	3
		F	Mean Length		558	553	605
			Std. Error		4	33	30
			Range		515- 610	520- 585	575- 635
			Sample Size	0	36	2	2
	7/14 (7/14,16,18,8/1, 4,6,8,11,13,15, 18,20,22,25,28)	M	Mean Length		557	594	
			Std. Error		4	19	
			Range		500- 640	565- 650	
			Sample Size	0	46	4	0
		F	Mean Length		545	557	
			Std. Error		3	13	
			Range		480- 594	530- 603	
			Sample Size	0	50	5	0
	Season	M	Mean Length		567	593	592
			Range		500- 640	550- 650	575- 600
			Sample Size	0	143	16	3
		F	Mean Length		554	562	588
			Range		480- 610	520- 605	570- 635
			Sample Size	0	119	11	4
2004 [c]	6/29 (6/24,29,7/1,5)	M	Mean Length	559	574	584	
			Std. Error	-	5	7	
			Range	559- 559	537- 640	532- 643	
			Sample Size	1	24	18	0
		F	Mean Length		556	567	
			Std. Error		5	5	
			Range		533- 590	550- 600	
			Sample Size	0	12	8	0

Appendix D.6. Mean length (mm) of chum salmon from the District 5 commercial fishery. (page 21 of 25)

Year	Sample Dates (Stratum Dates)	Sex		Age Class 0.2	0.3	0.4	0.5
	7/7	M	Mean Length	530	580	572	
	(7/7,9,12,14,16		Std. Error	-	6	32	
	8/2,4,6,9,11,13		Range	530- 530	570- 590	530- 635	
	16,18,20,23,25,27)		Sample Size	1	3	3	0
		F	Mean Length		566	538	
			Std. Error		18	28	
			Range		515- 600	510- 565	
			Sample Size	0	4	2	0
	Season [b]	M	Mean Length	536	576	579	
			Range	530- 559	537- 640	530- 643	
			Sample Size	2	27	21	0
		F	Mean Length		562	552	
			Range		515- 600	510- 600	
			Sample Size	0	16	10	0
2005 [c]	6/28	M	Mean Length		566	581	
	(6/21,23,28)		Std. Error		5	30	
			Range		540- 585	547- 640	
			Sample Size	0	10	3	0
		F	Mean Length		563	533	
			Std. Error		5	-	
			Range		551- 580	533- 533	
			Sample Size	0	5	1	0
	7/5	M	Mean Length	526	558	582	
	(6/30-8/30)		Std. Error	-	4	10	
			Range	526- 526	500- 625	545- 639	
			Sample Size	1	47	10	0
		F	Mean Length		546	555	
			Std. Error		5	9	
			Range		498- 595	518- 579	
			Sample Size	0	22	6	0
	Season [b]	M	Mean Length	526	563	581	
			Range	526- 526	500- 625	545- 640	
			Sample Size	1	57	13	0
		F	Mean Length		556	544	
			Range		498- 595	518- 579	
			Sample Size	0	27	7	0

Appendix D.6. Mean length (mm) of chum salmon from the District 5 commercial fishery. (page 22 of 25)

Year	Sample Dates (Stratum Dates)	Sex		Age Class 0.2	0.3	0.4	0.5
2006 [c]	6/27	M	Mean Length		570	577	
	(6/22-9/1)		Range		510- 671	513- 621	
			Sample Size	0	79	39	0
	Season [b]	F	Mean Length		555	567	
			Range		527- 584	509- 609	
			Sample Size	0	35	40	0
2007	6/21	M	Mean Length		583	592	595
	(6/19,21,25,27)		Std. Error		5	6	16
			Range		532- 634	543- 677	579- 611
			Sample Size	0	32	31	2
		F	Mean Length		561	573	
			Std. Error		6	7	
			Range		539- 591	520- 621	
			Sample Size	0	8	19	0
	7/4	M	Mean Length		580	585	571
	(6/29,7/2,4,6,8)		Std. Error		4	4	-
			Range		517- 645	532- 662	571- 571
			Sample Size	0	64	63	1
		F	Mean Length		562	565	580
			Std. Error		5	4	-
			Range		531- 620	515- 615	580- 580
			Sample Size	0	27	32	1
	712	M	Mean Length		557	564	585
	(7/10,12,14)		Std. Error		4	5	13
			Range		511- 611	509- 636	572- 598
			Sample Size	0	50	28	2
		F	Mean Length		532	543	
			Std. Error		4	5	
			Range		483- 593	507- 605	
			Sample Size	0	42	29	0
	7/18	M	Mean Length		551	564	
	(7/16-8/31)		Std. Error		4	5	
			Range		495- 587	525- 593	
			Sample Size	0	26	18	0
		F	Mean Length	536	536	537	
			Std. Error	-	3	5	
			Range	536- 536	503- 580	495- 603	
			Sample Size	1	40	27	0

Appendix D.6. Mean length (mm) of chum salmon from the District 5 commercial fishery. (page 23 of 25)

Year	Sample Dates (Stratum Dates)	Sex		Age Class 0.2	0.3	0.4	0.5
	Season	M	Mean Length		569	581	591
			Range		495- 645	509- 677	571- 611
			Sample Size	0	172	140	5
		F	Mean Length	536	541	553	580
			Range	536- 536	483- 620	495- 621	580- 580
			Sample Size	1	117	107	1
2008	Season	M	Mean Length				
			Range				
			Sample Size				
				No Samples Taken			
		F	Mean Length				
			Range				
			Sample Size				
2009 [c]	6/22 (6/22,25)	M	Mean Length		584	604	595
			Std. Error		7	5	9
			Range		520- 664	545- 725	586- 603
			Sample Size	0	24	48	2
		F	Mean Length		571	582	
			Std. Error		11	6	
			Range		533- 598	526- 631	
			Sample Size	0	5	18	0
	6/30 (6/30)	M	Mean Length	567	584	596	586
			Std. Error	-	5	3	8
			Range	567- 567	449- 889	532- 682	570- 617
			Sample Size	1	92	96	5
		F	Mean Length		580	577	567
			Std. Error		4	3	8
			Range		539- 616	499- 616	559- 575
			Sample Size	0	35	51	2
	7/6 (7/6)	M	Mean Length	551	579	590	607
			Std. Error	7	3	3	3
			Range	525- 569	538- 629	504- 656	599- 615
			Sample Size	6	55	88	4
		F	Mean Length	549	559	573	609
			Std. Error	7	3	3	7
			Range	542- 555	529- 588	515- 622	595- 616
			Sample Size	2	25	61	3

Appendix D.6. Mean length (mm) of chum salmon from the District 5 commercial fishery. (page 24 of 25)

Year	Sample Dates (Stratum Dates)	Sex		Age Class 0.2	0.3	0.4	0.5
	7/8 (7/8)	M	Mean Length	560	577	578	577
			Std. Error	8	4	4	11
			Range	528- 588	516- 632	499- 643	519- 614
			Sample Size	8	52	62	9
		F	Mean Length	598	570	569	
			Std. Error	-	3	3	
			Range	598- 598	531- 613	522- 614	
			Sample Size	1	39	42	0
	7/10 (7/10)	M	Mean Length	557	573	580	586
			Std. Error	18	4	4	12
			Range	539- 575	503- 666	531- 693	541- 621
			Sample Size	2	57	69	6
		F	Mean Length	535	561	571	601
			Std. Error	-	3	3	9
			Range	535- 535	531- 603	519- 629	592- 609
			Sample Size	1	36	44	2
	7/13 (7/13,15-17,20,22,24, 25,27,29,31,8/3,5,7, 10,12,14,19,21,24)	M	Mean Length	543	577	585	612
			Std. Error	19	4	4	12
			Range	496- 592	507- 671	524- 675	600- 623
			Sample Size	5	57	57	2
		F	Mean Length		562	572	583
			Std. Error		3	3	-
			Range		533- 609	522- 615	583- 583
			Sample Size	0	35	58	1
	Season	M	Mean Length	549	579	589	594
			Range	496- 592	449- 889	499- 725	519- 623
			Sample Size	22	337	420	28
		F	Mean Length	557	565	573	592
			Range	535- 598	529- 616	499- 631	559- 616
			Sample Size	4	175	274	8

Appendix D.6. Mean length (mm) of chum salmon from the District 5 commercial fishery. (page 25 of 25)

Year	Sample Dates (Stratum Dates)	Sex		Age Class 0.2	0.3	0.4	0.5
	Grand Total [d]	M	Mean Length	541	588	607	616
			Range	496- 593	449- 889	498- 725	519- 703
			Sample Size	43	2,329	1,835	59
		F	Mean Length	547	565	580	601
			Range	522- 598	430- 700	491- 680	565- 658
			Sample Size	15	2,250	1,878	34

[a] "Season" mean lengths are weighted by the commercial harvest in each stratum.

[b] Sampling dates do not meet criteria for estimating escapement percentages for some or all of the strata; Season is not included in "Grand Total".

[c] Sex of all fish was confirmed by visual inspection of gonads.

[d] "Grand Total" mean lengths are simple averages of the "Season" mean lengths.

Appendix D.7. Age and sex of Chum Salmon caught in the Bethel test fishery with 13.7 cm (5.4) mesh drift gillnets. [a] (page 1 of 6)

Year	Sample Dates	Sample Size	Sex	Age Class 0.2 Catch	0.2 %	0.3 Catch	0.3 %	0.4 Catch	0.4 %	0.5 Catch	0.5 %	Total Catch	Total %
1994	6/2-15	86	M	0	0.0	8	9.3	25	29.1	3	3.5	36	41.9
			F	0	0.0	11	12.8	38	44.2	1	1.2	50	58.1
			Subtotal	0	0.0	19	22.1	63	73.3	4	4.7	86	100.0
	6/16-20	142	M	0	0.0	20	14.1	41	28.9	2	1.4	63	44.4
			F	0	0.0	23	16.2	55	38.7	1	0.7	79	55.6
			Subtotal	0	0.0	43	30.3	96	67.6	3	2.1	142	100.0
	6/21-28	216	M	0	0.0	60	27.8	58	26.8	3	1.4	121	56.0
			F	0	0.0	50	23.1	44	20.4	1	0.5	95	44.0
			Subtotal	0	0.0	110	50.9	102	47.2	4	1.9	216	100.0
	6/29-7/3	109	M	0	0.0	27	24.8	10	9.2	1	0.9	38	34.9
			F	0	0.0	47	43.1	24	22.0	0	0.0	71	65.1
			Subtotal	0	0.0	74	67.9	34	31.2	1	0.9	109	100.0
	7/4-6	258	M	3	1.2	62	24.0	27	10.4	0	0.0	92	35.7
			F	0	0.0	132	51.2	34	13.2	0	0.0	166	64.3
			Subtotal	3	1.2	194	75.2	61	23.6	0	0.0	258	100.0
	7/7-9	410	M	3	0.7	116	28.3	26	6.4	2	0.5	147	35.9
			F	2	0.5	201	49.0	60	14.6	0	0.0	263	64.1
			Subtotal	5	1.2	317	77.3	86	21.0	2	0.5	410	100.0
	7/10-12	133	M	0	0.0	40	30.1	10	7.5	0	0.0	50	37.6
			F	0	0.0	68	51.1	15	11.3	0	0.0	83	62.4
			Subtotal	0	0.0	108	81.2	25	18.8	0	0.0	133	100.0
	7/13-18	126	M	1	0.8	28	22.2	5	4.0	0	0.0	34	27.0
			F	1	0.8	73	58.0	18	14.3	0	0.0	92	73.0
			Subtotal	2	1.6	101	80.2	23	18.3	0	0.0	126	100.0
	7/19-24	98	M	0	0.0	34	34.7	6	6.1	0	0.0	40	40.8
			F	0	0.0	49	50.0	9	9.2	0	0.0	58	59.2
			Subtotal	0	0.0	83	84.7	15	15.3	0	0.0	98	100.0
	7/25-8/16	62	M	0	0.0	7	11.3	4	6.5	0	0.0	11	17.7
			F	0	0.0	41	66.1	10	16.1	0	0.0	51	82.3
			Subtotal	0	0.0	48	77.4	14	22.6	0	0.0	62	100.0
	Season	1,640	M	7	0.4	402	24.5	212	12.9	11	0.7	632	38.5
			F	3	0.2	695	42.4	307	18.7	3	0.2	1,008	61.5
			Total	10	0.6	1,097	66.9	519	31.6	14	0.9	1,640	100.0
1995	6/11-17	47	M	0	0.0	5	10.6	10	21.3	1	2.2	16	34.0
			F	2	4.3	6	12.8	22	46.8	1	2.1	31	66.0
			Subtotal	2	4.3	11	23.4	32	68.1	2	4.3	47	100.0
	6/18-21	119	M	1	0.8	27	22.7	36	30.3	0	0.0	64	53.8
			F	0	0.0	24	20.2	31	26.0	0	0.0	55	46.2
			Subtotal	1	0.8	51	42.9	67	56.3	0	0.0	119	100.0
	6/22-25	174	M	3	1.7	30	17.3	44	25.3	3	1.7	80	46.0
			F	0	0.0	46	26.4	47	27.0	1	0.6	94	54.0
			Subtotal	3	1.7	76	43.7	91	52.3	4	2.3	174	100.0
	6/26-30	153	M	0	0.0	37	24.2	20	13.1	0	0.0	57	37.3
			F	2	1.3	60	39.2	34	22.2	0	0.0	96	62.7
			Subtotal	2	1.3	97	63.4	54	35.3	0	0.0	153	100.0

Appendix D.7. Age and sex of Chum Salmon caught in the Bethel test fishery with 13.7 cm (5.4) mesh drift gillnets. [a] (page 2 of 6)

Year	Sample Dates	Sample Size	Sex	Age Class 0.2 Catch	0.2 %	0.3 Catch	0.3 %	0.4 Catch	0.4 %	0.5 Catch	0.5 %	Total Catch	Total %
	7/1-4	213	M	7	3.3	39	18.3	33	15.5	0	0.0	79	37.1
			F	5	2.3	82	38.5	46	21.6	1	0.5	134	62.9
			Subtotal	12	5.6	121	56.8	79	37.1	1	0.5	213	100.0
	7/5-8	168	M	5	3.0	33	19.7	27	16.1	1	0.6	66	39.3
			F	5	3.0	54	32.1	42	25.0	1	0.6	102	60.7
			Subtotal	10	6.0	87	51.8	69	41.1	2	1.2	168	100.0
	7/9-12	166	M	9	5.4	41	24.7	12	7.2	0	0.0	62	37.3
			F	5	3.0	59	35.5	38	22.9	2	1.2	104	62.7
			Subtotal	14	8.4	100	60.2	50	30.1	2	1.2	166	100.0
	7/13-18	81	M	1	1.2	20	24.7	15	18.5	0	0.0	36	44.4
			F	4	5.0	26	32.1	14	17.3	1	1.2	45	55.6
			Subtotal	5	6.2	46	56.8	29	35.8	1	1.2	81	100.0
	7/19-24	70	M	2	2.9	12	17.1	5	7.2	0	0.0	19	27.1
			F	7	10.0	24	34.3	19	27.1	1	1.4	51	72.9
			Subtotal	9	12.9	36	51.4	24	34.3	1	1.4	70	100.0
	7/25-8/6	57	M	2	3.5	11	19.3	9	15.8	0	0.0	22	38.6
			F	4	7.0	19	33.3	12	21.0	0	0.0	35	61.4
			Subtotal	6	10.5	30	52.6	21	36.8	0	0.0	57	100.0
	Season	1,248	M	30	2.4	255	20.4	211	16.9	5	0.4	501	40.1
			F	34	2.7	400	32.1	305	24.4	8	0.6	747	59.9
			Total	64	5.1	655	52.5	516	41.3	13	1.0	1,248	100.0
2000	6/20-23	46	M	0	0.0	5	10.9	7	15.2	0	0.0	12	26.1
			F	0	0.0	15	32.6	17	37.0	2	4.3	34	73.9
			Subtotal	0	0.0	20	43.5	24	52.2	2	4.3	46	100.0
	6/24-27	62	M	0	0.0	12	19.3	8	12.9	0	0.0	20	32.3
			F	0	0.0	28	45.2	14	22.6	0	0.0	42	67.7
			Subtotal	0	0.0	40	64.5	22	35.5	0	0.0	62	100.0
	6/28-30	76	M	0	0.0	26	34.2	6	7.9	0	0.0	32	42.1
			F	0	0.0	28	36.9	15	19.7	1	1.3	44	57.9
			Subtotal	0	0.0	54	71.1	21	27.6	1	1.3	76	100.0
	7/1-2	133	M	0	0.0	42	31.6	8	6	1	0.8	51	38.3
			F	0	0.0	55	41.3	26	19.6	1	0.7	82	61.7
			Subtotal	0	0.0	97	72.9	34	25.6	2	1.5	133	100.0
	7/3-4	127	M	1	0.8	41	32.3	12	9.4	1	0.8	55	43.3
			F	1	0.8	45	35.4	26	20.5	0	0.0	72	56.7
			Subtotal	2	1.6	86	67.7	38	29.9	1	0.8	127	100.0
	7/5-7	117	M	2	1.7	31	26.5	13	11.1	0	0.0	46	39.3
			F	2	1.7	56	47.9	13	11.1	0	0.0	71	60.7
			Subtotal	4	3.4	87	74.4	26	22.2	0	0.0	117	100.0
	7/8-12	78	M	2	2.6	12	15.4	3	3.8	1	1.3	18	23.1
			F	0	0.0	46	59.0	14	18.0	0	0.0	60	76.9
			Subtotal	2	2.6	58	74.4	17	21.8	1	1.3	78	100.0
	7/13-15	50	M	2	4.0	11	22.0	5	10.0	0	0.0	18	36.0
			F	3	6.0	20	40.0	9	18.0	0	0.0	32	64.0
			Subtotal	5	10.0	31	62.0	14	28.0	0	0.0	50	100.0

Appendix D.7. Age and sex of Chum Salmon caught in the Bethel test fishery with 13.7 cm (5.4) mesh drift gillnets. [a] (page 3 of 6)

Year	Sample Dates	Sample Size	Sex	Age Class 0.2 Catch	0.2 %	0.3 Catch	0.3 %	0.4 Catch	0.4 %	0.5 Catch	0.5 %	Total Catch	Total %
	7/17-20	19	M	1	5.3	5	26.3	1	5.3	0	0.0	7	36.8
			F	2	10.5	10	52.6	0	0.0	0	0.0	12	63.2
			Subtotal	3	15.8	15	78.9	1	5.3	0	0.0	19	100.0
	7/21-31	26	M	0	0.0	8	30.8	1	3.9	0	0.0	10	38.5
			F	5	19.2	8	30.7	1	3.8	0	0.0	16	61.5
			Subtotal	5	19.2	16	61.5	2	7.7	0	0.0	26	100.0
	Season	734	M	8	1.1	193	26.3	64	8.7	3	0.4	269	36.6
			F	13	1.8	311	42.4	135	18.4	4	0.6	465	63.4
			Total	21	2.9	504	68.7	199	27.1	7	1.0	734	100.0
2001	6/5,13,18,20	20	M	0	0.0	1	5.0	4	20.0	0	0.0	5	25.0
			F	0	0.0	7	35.0	8	40.0	0	0.0	15	75.0
			Subtotal	0	0.0	8	40.0	12	60.0	0	0.0	20	100.0
	6/23,28	196	M	0	0.0	42	21.4	25	12.8	0	0.0	67	34.2
			F	1	0.5	67	34.2	61	31.1	0	0.0	129	65.8
			Subtotal	1	0.5	109	55.6	86	43.9	0	0.0	196	100.0
	7/1-5	147	M	0	0.0	37	25.2	14	9.5	0	0.0	51	34.7
			F	0	0.0	68	46.2	28	19.1	0	0.0	96	65.3
			Subtotal	0	0.0	105	71.4	42	28.6	0	0.0	147	100.0
	7/6-11	228	M	1	0.5	72	31.6	11	4.8	0	0.0	84	36.8
			F	1	0.4	118	51.7	25	11.0	0	0.0	144	63.2
			Subtotal	2	0.9	190	83.3	36	15.8	0	0.0	228	100.0
	7/16-22	163	M	2	1.3	55	33.7	10	6.1	1	0.6	68	41.7
			F	2	1.2	85	52.2	8	4.9	0	0.0	95	58.3
			Subtotal	4	2.5	140	85.9	18	11.0	1	0.6	163	100.0
	7/24-8/7	54	M	0	0.0	12	22.2	1	1.9	0	0.0	13	24.1
			F	2	3.7	34	63.0	4	7.4	1	1.9	41	75.9
			Subtotal	2	3.7	46	85.2	5	9.3	1	1.9	54	100.0
	Season	808	M	3	0.4	219	27.1	65	8.0	1	0.1	288	35.6
			F	6	0.7	379	46.9	134	16.6	1	0.1	520	64.4
			Total	9	1.1	598	74.0	199	24.6	2	0.2	808	100.0
2002	6/6-14	55	M	0	0.0	14	25.4	6	10.9	2	3.7	22	40.0
			F	0	0.0	16	29.1	16	29.1	1	1.8	33	60.0
			Subtotal	0	0.0	30	54.5	22	40.0	3	5.5	55	100.0
	6/15-18	70	M	0	0.0	16	22.9	15	21.4	0	0.0	31	44.3
			F	0	0.0	26	37.1	13	18.6	0	0.0	39	55.7
			Subtotal	0	0.0	42	60.0	28	40.0	0	0.0	70	100.0
	6/19-21	90	M	0	0.0	27	30.0	9	10.0	1	1.1	37	41.1
			F	0	0.0	35	38.9	18	20.0	0	0.0	53	58.9
			Subtotal	0	0.0	62	68.9	27	30.0	1	1.1	90	100.0
	6/22-24	96	M	1	1.0	31	32.3	9	9.4	1	1.0	42	43.8
			F	0	0.0	39	40.6	15	15.6	0	0.0	54	56.2
			Subtotal	1	1.0	70	72.9	24	25.0	1	1.0	96	100.0
	6/25-27	110	M	1	0.9	27	24.5	12	10.9	0	0.0	40	36.4
			F	1	0.9	49	44.6	20	18.2	0	0.0	70	63.6
			Subtotal	2	1.8	76	69.1	32	29.1	0	0.0	110	100.0

Appendix D.7. Age and sex of Chum Salmon caught in the Bethel test fishery with 13.7 cm (5.4) mesh drift gillnets. [a] (page 4 of 6)

Year	Sample Dates	Sample Size	Sex	Age Class 0.2 Catch	0.2 %	0.3 Catch	0.3 %	0.4 Catch	0.4 %	0.5 Catch	0.5 %	Total Catch	Total %
	6/29-7/1	78	M	0	0.0	25	32.1	4	5.1	0	0.0	29	37.2
			F	0	0.0	38	48.7	11	14.1	0	0.0	49	62.8
			Subtotal	0	0.0	63	80.8	15	19.2	0	0.0	78	100.0
	7/8-9	98	M	1	1.0	20	20.4	3	3.0	0	0.0	24	24.5
			F	1	1.0	65	66.3	8	8.2	0	0.0	74	75.5
			Subtotal	2	2.0	85	86.7	11	11.2	0	0.0	98	100.0
	7/10-12	109	M	2	1.9	37	33.9	4	3.7	1	0.9	44	40.4
			F	2	1.8	56	51.4	7	6.4	0	0.0	65	59.6
			Subtotal	4	3.7	93	85.3	11	10.1	1	0.9	109	100.0
	7/15-17	189	M	10	5.3	50	26.4	9	4.8	0	0.0	69	36.5
			F	15	7.9	95	50.3	10	5.3	0	0.0	120	63.5
			Subtotal	25	13.2	145	76.7	19	10.1	0	0.0	189	100.0
	7/23-30	99	M	9	9.1	27	27.2	3	3.0	1	1.0	40	40.4
			F	11	11.1	47	47.5	1	1.0	0	0.0	59	59.6
			Subtotal	20	20.2	74	74.7	4	4.0	1	1.0	99	100.0
	Season	994	M	24	2.4	274	27.5	74	7.4	6	0.6	378	38.0
			F	30	3.0	466	46.9	119	12.0	1	0.1	616	62.0
			Total	54	5.4	740	74.4	193	19.4	7	0.7	994	100.0
2003	6/11-18	40	M	1	2.5	10	25.0	14	35.0	1	2.5	26	65.0
			F	0	0.0	7	17.5	7	17.5	0	0.0	14	35.0
			Subtotal	1	2.5	17	42.5	21	52.5	1	2.5	40	100.0
	6/19	81	M	0	0.0	19	23.5	7	8.6	0	0.0	26	32.1
			F	0	0.0	39	48.1	16	19.8	0	0.0	55	67.9
			Subtotal	0	0.0	58	71.6	23	28.4	0	0.0	81	100.0
	6/20-27	72	M	0	0.0	20	27.8	11	15.3	1	1.4	32	44.4
			F	0	0.0	24	33.3	16	22.2	0	0.0	40	55.6
			Subtotal	0	0.0	44	61.1	27	37.5	1	1.4	72	100.0
	6/28-29	46	M	0	0.0	12	26.1	1	2.2	0	0.0	13	28.3
			F	0	0.0	28	60.9	4	8.7	1	2.2	33	71.7
			Subtotal	0	0.0	40	87	5	10.9	1	2.2	46	100.0
	6/30	85	M	0	0.0	28	32.9	7	8.2	0	0.0	35	41.2
			F	0	0.0	44	51.8	6	7.1	0	0.0	50	58.8
			Subtotal	0	0.0	72	84.7	13	15.3	0	0.0	85	100.0
	7/1	49	M	0	0.0	12	24.5	3	6.1	1	2.0	16	32.7
			F	0	0.0	29	59.2	4	8.2	0	0.0	33	67.3
			Subtotal	0	0.0	41	83.7	7	14.3	1	2.0	49	100.0
	7/3	114	M	0	0.0	50	43.8	3	2.6	0	0.0	53	46.5
			F	0	0.0	54	47.4	6	5.3	1	0.9	61	53.5
			Subtotal	0	0.0	104	91.2	9	7.9	1	0.9	114	100.0
	7/5	97	M	0	0.0	31	32.0	3	3.1	0	0.0	34	35.1
			F	2	2.1	53	54.6	8	8.2	0	0.0	63	64.9
			Subtotal	2	2.1	84	86.6	11	11.3	0	0.0	97	100.0
	7/8-17	67	M	0	0.0	23	34.3	5	7.4	0	0.0	28	41.8
			F	0	0.0	36	53.8	3	4.5	0	0.0	39	58.2
			Subtotal	0	0.0	59	88.1	8	11.9	0	0.0	67	100.0

Appendix D.7. Age and sex of Chum Salmon caught in the Bethel test fishery with 13.7 cm (5.4) mesh drift gillnets. [a] (page 5 of 6)

Year	Sample Dates	Sample Size	Sex	Age Class 0.2 Catch	0.2 %	0.3 Catch	0.3 %	0.4 Catch	0.4 %	0.5 Catch	0.5 %	Total Catch	Total %
	7/18-24	95	M	0	0.0	30	31.6	1	1.1	0	0.0	31	32.6
			F	0	0.0	63	66.3	1	1.0	0	0.0	64	67.4
			Subtotal	0	0.0	93	97.9	2	2.1	0	0.0	95	100.0
	Season	746	M	1	0.1	235	31.5	55	7.4	3	0.4	294	39.4
			F	2	0.3	377	50.5	71	9.5	2	0.3	452	60.6
			Total	3	0.4	612	82.0	126	16.9	5	0.7	746	100.0
2004	6/2-17	59	M	0	0.0	11	18.6	14	23.7	0	0.0	25	42.4
			F	0	0.0	6	10.2	28	47.5	0	0.0	34	57.6
			Subtotal	0	0.0	17	28.8	42	71.2	0	0.0	59	100.0
	6/19	18	M	0	0.0	4	22.2	2	11.1	0	0.0	6	33.3
			F	1	5.6	4	22.2	7	38.9	0	0.0	12	66.7
			Subtotal	1	5.6	8	44.4	9	50.0	0	0.0	18	100.0
	6/22-24	69	M	4	5.8	12	17.4	17	24.7	0	0.0	33	47.8
			F	1	1.4	10	14.5	25	36.2	0	0.0	36	52.2
			Subtotal	5	7.2	22	31.9	42	60.9	0	0.0	69	100.0
	6/26	46	M	4	8.7	12	26.1	11	23.9	0	0.0	27	58.7
			F	5	10.9	7	15.2	7	15.2	0	0.0	19	41.3
			Subtotal	9	19.6	19	41.3	18	39.1	0	0.0	46	100.0
	6/28-29	27	M	5	18.5	9	33.3	3	11.1	0	0.0	17	63.0
			F	2	7.4	4	14.8	4	14.8	0	0.0	10	37.0
			Subtotal	7	25.9	13	48.1	7	25.9	0	0.0	27	100.0
	7/1-5	51	M	8	15.7	9	17.6	9	17.7	0	0.0	26	51
			F	2	3.9	13	25.5	10	19.6	0	0.0	25	49
			Subtotal	10	19.6	22	43.1	19	37.3	0	0.0	51	100.0
	7/8-13	90	M	22	24.4	12	13.4	10	11.1	0	0.0	44	48.9
			F	16	17.8	20	22.2	10	11.1	0	0.0	46	51.1
			Subtotal	38	42.2	32	35.6	20	22.2	0	0.0	90	100.0
	7/15-26	79	M	17	21.5	11	13.9	5	6.4	0	0.0	33	41.8
			F	16	20.3	19	24.1	11	13.9	0	0.0	46	58.2
			Subtotal	33	41.8	30	38	16	20.3	0	0.0	79	100.0
	7/28-29,8/8-17	32	M	6	18.8	2	6.3	1	3.2	0	0.0	9	28.1
			F	16	50.0	6	18.7	1	3.1	0	0.0	23	71.9
			Subtotal	22	68.8	8	25.0	2	6.3	0	0.0	32	100.0
	Season	471	M	66	14.0	82	17.4	72	15.3	0	0.0	220	46.7
			F	59	12.5	89	18.9	103	21.9	0	0.0	251	53.3
			Total	125	26.5	171	36.3	175	37.2	0	0.0	471	100.0
2005	6/12-14	19	M	0	0.0	15	78.9	2	10.5	0	0.0	17	89.5
			F	0	0.0	1	5.3	1	5.3	0	0.0	2	10.5
			Subtotal	0	0.0	16	84.2	3	15.8	0	0.0	19	100.0
	6/18-21	91	M	0	0.0	42	46.1	7	7.7	0	0.0	49	53.8
			F	0	0.0	41	45.1	1	1.1	0	0.0	42	46.2
			Subtotal	0	0.0	83	91.2	8	8.8	0	0.0	91	100.0
	6/25-27,29	44	M	0	0.0	16	36.4	2	4.5	0	0.0	18	40.9
			F	1	2.3	25	56.8	0	0.0	0	0.0	26	59.1
			Subtotal	1	2.3	41	93.2	2	4.5	0	0.0	44	100.0

Appendix D.7. Age and sex of Chum Salmon caught in the Bethel test fishery with 13.7 cm (5.4) mesh drift gillnets. [a] (page 6 of 6)

Year	Sample Dates	Sample Size	Sex	Age Class 0.2 Catch	0.2 %	0.3 Catch	0.3 %	0.4 Catch	0.4 %	0.5 Catch	0.5 %	Total Catch	Total %
	7/6,14,16-17	52	M	1	1.9	16	30.8	1	1.9	0	0.0	18	34.6
			F	0	0.0	34	65.4	0	0.0	0	0.0	34	65.4
			Subtotal	1	1.9	50	96.2	1	1.9	0	0.0	52	100.0
	7/19-21	47	M	0	0.0	14	29.8	2	4.2	0	0.0	16	34.0
			F	0	0.0	28	59.6	3	6.4	0	0.0	31	66.0
			Subtotal	0	0.0	42	89.4	5	10.6	0	0.0	47	100.0
	7/23-24,26-27	64	M	0	0.0	24	37.5	0	0.0	0	0.0	24	37.5
			F	0	0.0	40	62.5	0	0.0	0	0.0	40	62.5
			Subtotal	0	0.0	64	100.0	0	0.0	0	0.0	64	100.0
	7/30-31	41	M	0	0.0	14	34.1	1	2.5	0	0.0	15	36.6
			F	0	0.0	25	61.0	1	2.4	0	0.0	26	63.4
			Subtotal	0	0.0	39	95.1	2	4.9	0	0.0	41	100.0
	Season	358	M	1	0.3	141	39.4	15	4.2	0	0.0	157	43.9
			F	1	0.3	194	54.2	6	1.7	0	0.0	201	56.1
			Total	2	0.6	335	93.6	21	5.9	0	0.0	358	100.0
2006	Season		M	No Samples									
			F										
			Total										
	Grand Total [b]	6,999	M	140	2.0	1,801	25.7	768	11.0	29	0.4	2,739	39.1
			F	148	2.1	2,911	41.6	1,180	16.9	19	0.3	4,260	60.9
			Total	288	4.1	4,712	67.3	1,948	27.8	48	0.7	6,999	100.0

[a] The percentages in the "Season" total and the "Grand Total" are weighted by sample size.

[b] The number of fish in the "Grand total" are the sum of the "Season" totals.

Appendix D.8. Mean length (mm) of Chum salmon caught in the Bethel test fishery with 13.7 cm (5.4 in) mesh drift gillnets. [a] (page 1 of 17)

Year	Sample Dates (Stratum Dates)	Sex		Age Class 0.2	0.3	0.4	0.5
1994	6/2-15	M	Mean Length		580	590	624
			Std. Error		6	6	11
			Range		560- 605	514- 665	607- 644
			Sample Size	0	8	25	3
		F	Mean Length		582	578	573
			Std. Error		10	3	-
			Range		525- 645	536- 625	573- 573
			Sample Size	0	11	38	1
	6/16-20	M	Mean Length		583	592	617
			Std. Error		7	4	34
			Range		536- 650	547- 645	583- 651
			Sample Size	0	20	41	2
		F	Mean Length		569	566	560
			Std. Error		4	3	-
			Range		539- 601	513- 607	560- 560
			Sample Size	0	23	54	1
	6/21-28	M	Mean Length		594	588	570
			Std. Error		4	4	23
			Range		537- 679	512- 634	531- 612
			Sample Size	0	60	58	3
		F	Mean Length		558	563	536
			Std. Error		4	4	-
			Range		505- 663	512- 615	536- 536
			Sample Size	0	50	44	1
	6/29-7/3	M	Mean Length		558	567	604
			Std. Error		5	11	-
			Range		500- 607	503- 619	604- 604
			Sample Size	0	27	10	1
		F	Mean Length		536	548	
			Std. Error		5	5	
			Range		484- 620	495- 615	
			Sample Size	0	47	24	0
	7/4-6	M	Mean Length	547	566	568	
			Std. Error	18	4	5	
			Range	511- 569	509- 630	495- 621	
			Sample Size	3	62	27	0
		F	Mean Length		536	545	
			Std. Error		2	5	
			Range		467- 599	490- 609	
			Sample Size	0	132	34	0

Appendix D.8. Mean length (mm) of Chum salmon caught in the Bethel test fishery with 13.7 cm (5.4 in) mesh drift gillnets. [a] (page 2 of 17)

Year	Sample Dates (Stratum Dates)	Sex		Age Class 0.2	0.3	0.4	0.5
	7/7-9	M	Mean Length	537	550	552	573
			Std. Error	31	3	6	17
			Range	483- 592	490- 634	493- 608	556- 590
			Sample Size	3	116	26	2
		F	Mean Length	505	533	532	
			Std. Error	13	2	3	
			Range	492- 518	474- 607	490- 615	
			Sample Size	2	201	60	0
	7/10-12	M	Mean Length		549	566	
			Std. Error		4	10	
			Range		507- 606	517- 624	
			Sample Size	0	40	10	0
		F	Mean Length		529	532	
			Std. Error		3	7	
			Range		487- 604	481- 571	
			Sample Size	0	68	15	0
	7/13-18	M	Mean Length	494	552	536	
			Std. Error	-	4	5	
			Range	494- 494	496- 604	521- 551	
			Sample Size	1	28	5	0
		F	Mean Length	537	530	535	
			Std. Error	-	3	6	
			Range	537- 537	492- 601	512- 597	
			Sample Size	1	73	18	0
	7/19-24	M	Mean Length		560	565	
			Std. Error		4	9	
			Range		514- 615	534- 597	
			Sample Size	0	34	6	0
		F	Mean Length		542	563	
			Std. Error		4	6	
			Range		437- 592	536- 595	
			Sample Size	0	49	9	0
	7/25-8/16	M	Mean Length		548	586	
			Std. Error		5	22	
			Range		533- 573	555- 651	
			Sample Size	0	7	4	0
		F	Mean Length		538	544	
			Std. Error		4	9	
			Range		496- 592	503- 585	
			Sample Size	0	41	10	0

Appendix D.8. Mean length (mm) of Chum salmon caught in the Bethel test fishery with 13.7 cm (5.4 in) mesh drift gillnets. [a] (page 3 of 17)

Year	Sample Dates (Stratum Dates)	Sex		Age Class 0.2	0.3	0.4	0.5
	Season	M	Mean Length	535	563	578	597
			Range	483- 592	490- 679	493- 665	531- 651
			Sample Size	7	402	212	11
		F	Mean Length	516	538	552	556
			Range	492- 537	437- 663	481- 625	536- 573
			Sample Size	3	695	306	3
1995	6/11-17	M	Mean Length		578	588	581
			Std. Error		8	9	-
			Range		559- 600	543- 629	581- 581
			Sample Size	0	5	10	1
		F	Mean Length	520	576	577	578
			Std. Error	13	10	6	-
			Range	507- 533	562- 625	519- 635	578- 578
			Sample Size	2	6	22	1
	6/18-21	M	Mean Length	520	589	596	
			Std. Error	-	7	5	
			Range	520- 520	545- 689	547- 661	
			Sample Size	1	27	36	0
		F	Mean Length		563	566	
			Std. Error		5	5	
			Range		517- 650	510- 640	
			Sample Size	0	24	31	0
	6/22-25	M	Mean Length	562	587	586	599
			Std. Error	9	5	4	9
			Range	551- 581	534- 632	529- 648	582- 610
			Sample Size	3	30	44	3
		F	Mean Length		553	560	535
			Std. Error		3	4	-
			Range		507- 610	499- 624	535- 535
			Sample Size	0	46	47	1
	6/26-30	M	Mean Length		578	577	
			Std. Error		5	7	
			Range		534- 656	542- 659	
			Sample Size	0	37	20	0
		F	Mean Length	528	546	545	
			Std. Error	9	3	3	
			Range	519- 536	501- 628	521- 585	
			Sample Size	2	60	34	0

Appendix D.8. Mean length (mm) of Chum salmon caught in the Bethel test fishery with 13.7 cm (5.4 in) mesh drift gillnets. [a] (page 4 of 17)

Year	Sample Dates (Stratum Dates)	Sex		Age Class 0.2	0.3	0.4	0.5
	7/1-4	M	Mean Length	534	582	594	
			Std. Error	10	4	6	
			Range	501- 570	530- 633	501- 681	
			Sample Size	7	39	33	0
		F	Mean Length	539	551	562	572
			Std. Error	14	3	4	-
			Range	495- 577	422- 609	490- 634	572- 572
			Sample Size	5	82	46	1
	7/5-8	M	Mean Length	554	576	567	560
			Std. Error	10	5	6	-
			Range	527- 574	523- 647	509- 639	560- 560
			Sample Size	5	33	27	1
		F	Mean Length	545	550	557	569
			Std. Error	10	3	4	-
			Range	514- 567	504- 601	509- 618	569- 569
			Sample Size	5	54	42	1
	7/9-12	M	Mean Length	549	570	576	
			Std. Error	12	4	12	
			Range	509- 626	502- 652	525- 658	
			Sample Size	9	41	12	0
		F	Mean Length	530	548	566	577
			Std. Error	11	3	5	14
			Range	489- 549	485- 597	502- 641	563- 590
			Sample Size	5	59	38	2
	7/13-18	M	Mean Length	517	578	586	
			Std. Error	-	7	11	
			Range	517- 517	531- 641	525- 687	
			Sample Size	1	20	15	0
		F	Mean Length	513	547	551	580
			Std. Error	5	4	7	-
			Range	500- 522	505- 596	486- 579	580- 580
			Sample Size	4	26	14	1
	7/19-24	M	Mean Length	530	566	576	
			Std. Error	4	8	13	
			Range	526- 533	535- 639	535- 601	
			Sample Size	2	12	5	0
		F	Mean Length	524	536	546	531
			Std. Error	9	5	7	-
			Range	490- 558	483- 564	483- 590	531- 531
			Sample Size	7	24	19	1

Appendix D.8. Mean length (mm) of Chum salmon caught in the Bethel test fishery with 13.7 cm (5.4 in) mesh drift gillnets. [a] (page 5 of 17)

Year	Sample Dates (Stratum Dates)	Sex		Age Class 0.2	0.3	0.4	0.5
	7/25-8/6	M	Mean Length	537	547	569	
			Std. Error	12	9	11	
			Range	525- 549	489- 601	525- 616	
			Sample Size	2	11	9	0
		F	Mean Length	529	541	562	
			Std. Error	20	5	6	
			Range	509- 589	500- 574	531- 597	
			Sample Size	4	19	12	0
	Season	M	Mean Length	544	577	584	588
			Range	501- 626	489- 689	501- 687	560- 610
			Sample Size	30	255	211	5
		F	Mean Length	529	549	560	565
			Range	489- 589	422- 650	483- 641	531- 590
			Sample Size	34	400	305	8
2000	6/20-23	M	Mean Length		589	621	
			Std. Error		3	17	
			Range		583- 600	558- 691	
			Sample Size	0	5	7	0
		F	Mean Length		557	591	577
			Std. Error		7	6	22
			Range		522- 622	548- 634	555- 599
			Sample Size	0	15	17	2
	6/24-27	M	Mean Length		591	611	
			Std. Error		5	11	
			Range		564- 624	571- 671	
			Sample Size	0	12	8	0
		F	Mean Length		558	572	
			Std. Error		5	6	
			Range		500- 610	540- 615	
			Sample Size	0	28	14	0
	6/28-30	M	Mean Length		576	602	
			Std. Error		4	12	
			Range		540- 611	561- 639	
			Sample Size	0	26	6	0
		F	Mean Length		555	567	537
			Std. Error		3	6	-
			Range		504- 579	515- 614	537- 537
			Sample Size	0	28	15	1

Appendix D.8. Mean length (mm) of Chum salmon caught in the Bethel test fishery with 13.7 cm (5.4 in) mesh drift gillnets. [a] (page 6 of 17)

Year	Sample Dates (Stratum Dates)	Sex		Age Class 0.2	0.3	0.4	0.5
	7/1-2	M	Mean Length		578	589	553
			Std. Error		4	12	-
			Range		531- 619	555- 655	553- 553
			Sample Size	0	42	8	1
		F	Mean Length		553	569	556
			Std. Error		3	5	-
			Range		517- 603	527- 620	556- 556
			Sample Size	0	55	26	1
	7/3-4	M	Mean Length	557	588	604	564
			Std. Error	.	4	9	-
			Range	557- 557	542- 630	553- 649	564- 564
			Sample Size	1	41	12	1
		F	Mean Length	564	563	566	
			Std. Error	-	4	4	
			Range	564- 564	507- 616	534- 616	
			Sample Size	1	45	26	0
	7/5-7	M	Mean Length	564	587	600	
			Std. Error	14	5	12	
			Range	550- 578	533- 634	517- 690	
			Sample Size	2	31	13	0
		F	Mean Length	542	561	576	
			Std. Error	9	3	7	
			Range	533- 550	513- 607	540- 630	
			Sample Size	2	56	13	0
	7/8-12	M	Mean Length	541	566	595	661
			Std. Error	20	7	12	-
			Range	521- 561	508- 600	570- 607	661- 661
			Sample Size	2	12	3	1
		F	Mean Length		545	577	
			Std. Error		4	5	
			Range		500- 632	542- 613	
			Sample Size	0	46	14	0
	7/13-15	M	Mean Length	552	579	588	
			Std. Error	52	7	11	
			Range	500- 603	535- 609	557- 626	
			Sample Size	2	11	5	0
		F	Mean Length	555	546	566	
			Std. Error	13	5	6	
			Range	532- 575	509- 595	540- 603	
			Sample Size	3	20	9	0

Appendix D.8. Mean length (mm) of Chum salmon caught in the Bethel test fishery with 13.7 cm (5.4 in) mesh drift gillnets. [a] (page 7 of 17)

Year	Sample Dates (Stratum Dates)	Sex		Age Class 0.2	0.3	0.4	0.5
	7/17-20	M	Mean Length	519	575	545	
			Std. Error	-	12	-	
			Range	519- 519	552- 614	545- 545	
			Sample Size	1	5	1	0
		F	Mean Length	530	547		
			Std. Error	7	6		
			Range	523- 537	521- 574		
			Sample Size	2	10	0	0
	7/21-31	M	Mean Length		588	625	
			Std. Error		7	-	
			Range		559- 617	625- 625	
			Sample Size	0	8	1	0
		F	Mean Length	527	541	565	
			Std. Error	15	6	-	
			Range	486- 572	516- 563	565- 565	
			Sample Size	5	8	1	0
	Season	M	Mean Length	549	582	601	593
			Range	500- 603	508- 634	517- 691	553- 661
			Sample Size	8	193	64	3
		F	Mean Length	539	555	572	562
			Range	486- 575	500- 632	515- 634	537- 599
			Sample Size	13	311	135	4
2001	6/5,13,18,20	M	Mean Length		622	612	
			Std. Error		-	8	
			Range		622- 622	590- 627	
			Sample Size	0	1	4	0
		F	Mean Length		570	592	
			Std. Error		11	11	
			Range		526- 620	549- 657	
			Sample Size	0	7	8	0
	6/23,28	M	Mean Length		596	606	
			Std. Error		4	4	
			Range		545- 659	575- 644	
			Sample Size	0	42	25	0
		F	Mean Length	554	568	574	
			Std. Error	-	3	3	
			Range	554- 554	506- 637	512- 633	
			Sample Size	1	67	61	0

Appendix D.8. Mean length (mm) of Chum salmon caught in the Bethel test fishery with 13.7 cm (5.4 in) mesh drift gillnets. [a] (page 8 of 17)

Year	Sample Dates (Stratum Dates)	Sex		Age Class 0.2	0.3	0.4	0.5
	7/1-5	M	Mean Length		587	600	
			Std. Error		5	10	
			Range		530- 655	550- 660	
			Sample Size	0	37	14	0
		F	Mean Length		562	570	
			Std. Error		3	4	
			Range		520- 645	520- 620	
			Sample Size	0	68	28	0
	7/6-11	M	Mean Length	542	575	592	
			Std. Error	-	3	10	
			Range	542- 542	500- 627	532- 640	
			Sample Size	1	72	11	0
		F	Mean Length	505	556	572	
			Std. Error		2	4	
			Range	505- 505	494- 631	537- 618	
			Sample Size	1	118	25	0
	7/16-22	M	Mean Length	559	577	585	533
			Std. Error	7	4	10	-
			Range	552- 566	515- 662	530- 639	533- 533
			Sample Size	2	55	10	1
		F	Mean Length	524	550	547	
			Std. Error	9	3	10	
			Range	515- 532	409- 637	498- 583	
			Sample Size	2	85	8	0
	7/24-8/7	M	Mean Length		583	575	
			Std. Error		7	-	
			Range		529- 627	575- 575	
			Sample Size	0	12	1	0
		F	Mean Length	547	546	553	585
			Std. Error	9	5	7	
			Range	538- 556	421- 594	533- 564	585- 585
			Sample Size	2	34	4	1
	Season	M	Mean Length	553	582	599	533
			Range	542- 566	500- 662	530- 660	533- 533
			Sample Size	3	219	65	1
		F	Mean Length	533	557	572	585
			Range	505- 556	409- 645	498- 657	585- 585
			Sample Size	6	379	134	1

Appendix D.8. Mean length (mm) of Chum salmon caught in the Bethel test fishery with 13.7 cm (5.4 in) mesh drift gillnets. [a] (page 9 of 17)

Year	Sample Dates (Stratum Dates)	Sex		Age Class 0.2	0.3	0.4	0.5
2002	6/6-14	M	Mean Length		616	631	656
			Std. Error		6	19	6
			Range		567- 662	558- 698	650- 662
			Sample Size	0	14	6	2
		F	Mean Length		576	591	594
			Std. Error		5	5	-
			Range		550- 614	565- 647	594- 594
			Sample Size	0	16	16	1
	6/15-18	M	Mean Length		597	614	
			Std. Error		8	7	
			Range		543- 643	576- 660	
			Sample Size	0	16	15	0
		F	Mean Length		576	570	
			Std. Error		4	7	
			Range		540- 608	500- 604	
			Sample Size	0	26	13	0
	6/19-21	M	Mean Length		599	626	659
			Std. Error		4	11	-
			Range		537- 633	568- 677	659- 659
			Sample Size	0	27	9	1
		F	Mean Length		572	583	
			Std. Error		3	5	
			Range		538- 619	545- 619	
			Sample Size	0	35	18	0
	6/22-24	M	Mean Length	576	581	628	604
			Std. Error	-	20	11	-
			Range	576- 576	.- 654	567- 686	604- 604
			Sample Size	1	31	9	1
		F	Mean Length		578	588	
			Std. Error		3	4	
			Range		544- 625	563- 618	
			Sample Size	0	39	15	0
	6/25-27	M	Mean Length	615	597	599	
			Std. Error	-	6	10	
			Range	615- 615	532- 693	521- 634	
			Sample Size	1	27	12	0
		F	Mean Length	585	572	574	
			Std. Error	-	3	5	
			Range	585- 585	512- 630	547- 618	
			Sample Size	1	49	20	0

Appendix D.8. Mean length (mm) of Chum salmon caught in the Bethel test fishery with 13.7 cm (5.4 in) mesh drift gillnets. [a] (page 10 of 17)

Year	Sample Dates (Stratum Dates)	Sex		Age Class 0.2	0.3	0.4	0.5
	6/29-7/1	M	Mean Length		596	598	
			Std. Error		5	8	
			Range		555- 657	574- 609	
			Sample Size	0	25	4	0
		F	Mean Length		578	593	
			Std. Error		3	8	
			Range		540- 613	532- 623	
			Sample Size	0	38	11	0
	7/8-9	M	Mean Length	534	595	583	
			Std. Error	-	6	29	
			Range	534- 534	555- 650	526- 624	
			Sample Size	1	20	3	0
		F	Mean Length	555	567	573	
			Std. Error	-	3	10	
			Range	555- 555	524- 603	531- 607	
			Sample Size	1	65	8	0
	7/10-12	M	Mean Length	563	592	610	569
			Std. Error	29	4	13	.
			Range	534- 592	550- 641	575- 634	569- 569
			Sample Size	2	37	4	1
		F	Mean Length	532	569	568	
			Std. Error	8	3	6	
			Range	524- 539	503- 612	546- 584	
			Sample Size	2	56	7	0
	7/15-17	M	Mean Length	563	595	594	
			Std. Error	7	4	14	
			Range	525- 605	512- 675	550- 668	
			Sample Size	10	50	9	0
		F	Mean Length	549	567	561	
			Std. Error	4	2	4	
			Range	521- 575	516- 629	541- 587	
			Sample Size	15	95	10	0
	7/23-30	M	Mean Length	562	588	575	564
			Std. Error	7	5	18	-
			Range	526- 588	524- 644	542- 605	564- 564
			Sample Size	9	27	3	1
		F	Mean Length	535	547	520	
			Std. Error	5	3	-	
			Range	504- 560	504- 588	520- 520	
			Sample Size	11	47	1	0

Appendix D.8. Mean length (mm) of Chum salmon caught in the Bethel test fishery with 13.7 cm (5.4 in) mesh drift gillnets. [a] (page 11 of 17)

Year	Sample Dates (Stratum Dates)	Sex		Age Class 0.2	0.3	0.4	0.5
	Season	M	Mean Length	564	594	610	618
			Range	525- 615	512- 693	521- 698	564- 662
			Sample Size	24	274	74	6
		F	Mean Length	544	569	579	594
			Range	504- 585	503- 630	500- 647	594- 594
			Sample Size	30	466	119	1
2003	6/11-18	M	Mean Length	559	595	603	592
			Std. Error	-	21	5	-
			Range	559- 559	527- 752	578- 646	592- 592
			Sample Size	1	10	14	1
		F	Mean Length		573	594	
			Std. Error		12	8	
			Range		546- 626	567- 627	
			Sample Size	0	7	7	0
	6/19	M	Mean Length		568	613	
			Std. Error		7	11	
			Range		524- 621	564- 642	
			Sample Size	0	19	7	0
		F	Mean Length		561	562	
			Std. Error		3	8	
			Range		522- 616	524- 643	
			Sample Size	0	39	16	0
	6/20-27	M	Mean Length		583	613	627
			Std. Error		6	11	-
			Range		537- 625	566- 688	627- 627
			Sample Size	0	20	11	1
		F	Mean Length		563	579	
			Std. Error		5	8	
			Range		524- 645	534- 657	
			Sample Size	0	24	16	0
	6/28-29	M	Mean Length		567	565	
			Std. Error		7	-	
			Range		520- 595	565- 565	
			Sample Size	0	12	1	0
		F	Mean Length		563	572	595
			Std. Error		5	11	-
			Range		520- 607	548- 600	595- 595
			Sample Size	0	28	4	1

Appendix D.8. Mean length (mm) of Chum salmon caught in the Bethel test fishery with 13.7 cm (5.4 in) mesh drift gillnets. [a] (page 12 of 17)

Year	Sample Dates (Stratum Dates)	Sex		Age Class 0.2	0.3	0.4	0.5
	6/30	M	Mean Length		576	595	
			Std. Error		4	11	
			Range		532- 615	551- 639	
			Sample Size	0	28	7	0
		F	Mean Length		557	559	
			Std. Error		4	7	
			Range		504- 597	542- 594	
			Sample Size	0	44	6	0
	7/1	M	Mean Length		571	610	623
			Std. Error		8	29	-
			Range		531- 622	571- 667	623- 623
			Sample Size	0	12	3	1
		F	Mean Length		552	560	
			Std. Error		5	17	
			Range		505- 621	531- 609	
			Sample Size	0	29	4	0
	7/3	M	Mean Length		576	581	
			Std. Error		4	3	
			Range		516- 626	576- 586	
			Sample Size	0	50	3	0
		F	Mean Length		552	583	560
			Std. Error		3	11	-
			Range		523- 598	550- 616	560- 560
			Sample Size	0	54	6	1
	7/5	M	Mean Length		571	609	
			Std. Error		4	36	
			Range		511- 617	554- 676	
			Sample Size	0	31	3	0
		F	Mean Length	546	545	564	
			Std. Error	20	4	11	
			Range	526- 565	446- 617	532- 616	
			Sample Size	2	53	8	0
	7/8-17	M	Mean Length		574	546	
			Std. Error		8	17	
			Range		527- 693	502- 598	
			Sample Size	0	23	5	0
		F	Mean Length		549	538	
			Std. Error		5	21	
			Range		506- 612	503- 576	
			Sample Size	0	36	3	0

Appendix D.8. Mean length (mm) of Chum salmon caught in the Bethel test fishery with 13.7 cm (5.4 in) mesh drift gillnets. [a] (page 13 of 17)

Year	Sample Dates (Stratum Dates)	Sex		Age Class 0.2	0.3	0.4	0.5
	7/18-24	M	Mean Length		561	584	
			Std. Error		6	0	
			Range		497- 615	584- 584	
			Sample Size	0	30	1	0
		F	Mean Length		535	564	
			Std. Error		3	-	
			Range		488- 615	564- 564	
			Sample Size	0	63	1	0
	Season	M	Mean Length	559	573	599	614
			Range	559- 559	497- 752	502- 688	592- 627
			Sample Size	1	235	55	3
		F	Mean Length	546	551	570	578
			Range	526- 565	446- 645	503- 657	560- 595
			Sample Size	2	377	71	2
2004	6/2-17	M	Mean Length		574	612	
			Std. Error		4	6	
			Range		548- 593	564- 645	
			Sample Size	0	11	14	0
		F	Mean Length		579	577	
			Std. Error		10	5	
			Range		551- 607	517- 638	
			Sample Size	0	6	28	0
	6/19	M	Mean Length		573	634	
			Std. Error		22	38	
			Range		519- 624	596- 671	
			Sample Size	0	4	2	0
		F	Mean Length	515	559	570	
			Std. Error	-	8	7	
			Range	515- 515	540- 577	540- 596	
			Sample Size	1	4	7	0
	6/22-24	M	Mean Length	547	587	596	
			Std. Error	14	9	7	
			Range	520- 579	524- 630	538- 640	
			Sample Size	4	12	17	0
		F	Mean Length	563	556	574	
			Std. Error	-	7	7	
			Range	563- 563	517- 589	425- 620	
			Sample Size	1	10	25	0

Appendix D.8. Mean length (mm) of Chum salmon caught in the Bethel test fishery with 13.7 cm (5.4 in) mesh drift gillnets. [a] (page 14 of 17)

Year	Sample Dates (Stratum Dates)	Sex		Age Class 0.2	0.3	0.4	0.5
	6/26	M	Mean Length	536	584	608	
			Std. Error	7	7	5	
			Range	524- 550	558- 639	579- 625	
			Sample Size	4	12	11	0
		F	Mean Length	544	556	571	
			Std. Error	10	6	5	
			Range	529- 583	528- 575	558- 592	
			Sample Size	5	7	7	0
	6/28-29	M	Mean Length	546	584	560	
			Std. Error	11	6	13	
			Range	515- 581	547- 615	543- 586	
			Sample Size	5	9	3	0
		F	Mean Length	539	566	577	
			Std. Error	4	8	7	
			Range	535- 543	544- 583	565- 593	
			Sample Size	2	4	4	0
	7/1-5	M	Mean Length	535	572	595	
			Std. Error	9	10	10	
			Range	504- 586	530- 621	549- 633	
			Sample Size	8	9	9	0
		F	Mean Length	515	549	565	
			Std. Error	14	5	15	
			Range	500- 529	517- 583	530- 693	
			Sample Size	2	13	10	0
	7/8-13	M	Mean Length	558	561	589	
			Std. Error	5	5	11	
			Range	509- 601	537- 586	537- 644	
			Sample Size	22	12	10	0
		F	Mean Length	529	548	566	
			Std. Error	4	5	8	
			Range	501- 562	513- 590	542- 613	
			Sample Size	16	20	10	0
	7/15-26	M	Mean Length	544	563	602	
			Std. Error	6	7	18	
			Range	496- 578	523- 596	557- 651	
			Sample Size	17	11	5	0
		F	Mean Length	532	549	548	
			Std. Error	4	5	8	
			Range	510- 562	511- 586	519- 600	
			Sample Size	16	19	11	0

Appendix D.8. Mean length (mm) of Chum salmon caught in the Bethel test fishery with 13.7 cm (5.4 in) mesh drift gillnets. [a] (page 15 of 17)

Year	Sample Dates (Stratum Dates)	Sex		Age Class 0.2	0.3	0.4	0.5
	7/28-29,8/8-1	M	Mean Length	549	577	550	
			Std. Error	20	7	-	
			Range	484- 627	570- 584	550- 550	
			Sample Size	6	2	1	0
		F	Mean Length	537	535	557	
			Std. Error	4	21	-	
			Range	517- 558	434- 585	557- 557	
			Sample Size	16	6	1	0
	Season	M	Mean Length	548	575	599	
			Range	484- 627	519- 639	537- 671	
			Sample Size	66	82	72	
		F	Mean Length	533	552	570	
			Range	500- 583	434- 607	425- 693	
			Sample Size	59	89	103	0
2005	6/12-14	M	Mean Length		591	614	
			Std. Error		5	4	
			Range		570- 621	610- 617	
			Sample Size	0	15	2	0
		F	Mean Length		576	566	
			Std. Error		-	-	
			Range		576- 576	566- 566	
			Sample Size	0	1	1	0
	6/18-21	M	Mean Length		590	601	
			Std. Error		6	8	
			Range		521- 679	568- 630	
			Sample Size	0	42	7	0
		F	Mean Length		564	600	
			Std. Error		5	-	
			Range		508- 682	600- 600	
			Sample Size	0	41	1	0
	6/25-27,29	M	Mean Length		566	601	
			Std. Error		8	44	
			Range		525- 636	557- 644	
			Sample Size	0	16	2	0
		F	Mean Length	533	557		
			Std. Error	-	5		
			Range	533- 533	500- 600		
			Sample Size	1	25	0	0

Appendix D.8. Mean length (mm) of Chum salmon caught in the Bethel test fishery with 13.7 cm (5.4 in) mesh drift gillnets. [a] (page 16 of 17)

Year	Sample Dates (Stratum Dates)	Sex		Age Class 0.2	0.3	0.4	0.5
	7/6,14,16-17	M	Mean Length	553	567	593	
			Std. Error	-	13	-	
			Range	553- 553	485- 671	593- 593	
			Sample Size	1	16	1	0
		F	Mean Length		546		
			Std. Error		5		
			Range		504- 632		
			Sample Size	0	34	0	0
	7/19-21	M	Mean Length		571	575	
			Std. Error		10	-	
			Range		513- 635	575- 575	
			Sample Size	0	14	2	0
		F	Mean Length		540	542	
			Std. Error		5	13	
			Range		500- 595	515- 555	
			Sample Size	0	28	3	0
	7/23-24,26-27	M	Mean Length		566		
			Std. Error		6		
			Range		504- 628		
			Sample Size	0	24	0	0
		F	Mean Length		538		
			Std. Error		4		
			Range		497- 595		
			Sample Size	0	40	0	0
	7/30-31	M	Mean Length		570	626	
			Std. Error		8	-	
			Range		517- 627	626- 626	
			Sample Size	0	14	1	0
		F	Mean Length		537	540	
			Std. Error		4	-	
			Range		500- 592	540- 540	
			Sample Size	0	25	1	0
	Season	M	Mean Length	553	577	600	
			Range	553- 553	485- 679	557- 644	
			Sample Size	1	141	15	0
		F	Mean Length	533	548	555	
			Range	533- 533	497- 682	515- 600	
			Sample Size	1	194	6	0

Appendix D.8. Mean length (mm) of Chum salmon caught in the Bethel test fishery with 13.7 cm (5.4 in) mesh drift gillnets. [a] (page 17 of 17)

Year	Sample Dates (Stratum Dates)	Sex		Age Class 0.2	0.3	0.4	0.5
2006	Season	M	Mean Length				
			Range				
			Sample Size		No Samples		
		F	Mean Length				
			Range				
			Sample Size				
	Grand Total [b]	M	Mean Length	553	580	599	589
			Range	500- 603	500- 662	517- 691	533- 661
			Sample size	133	1,399	556	18
		F	Mean Length	537	554	568	577
			Range	486- 575	409- 662	498- 657	535- 599
			Sample size	145	2,216	873	16

[a] The percentages in the "Season" total and the "Grand Total" are weighted by sample size.
[b] "Grand Total" mean lengths are simple averages of the "Season" mean lengths.