3A 95-23

Unalakleet River
Test Net Project, 1993

by

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Regional Information Report[1] No. 3A95-23

Alaska Department of Fish and Game
Commercial Fisheries Management and Devlopment Division,AYK Region
333 Raspberry Road
Anchorage, Alaska 99518-1599

December 1995

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INTRODUCTION

The Unalakleet River system empties into Norton Sound approximately 130 miles from the Nulato Hills westward to the Bering Sea and drains an area of 1,087 square miles. Five major tributaries comprise the system, all of which support spawning salmon.

The town of Unalakleet is situated at the mouth of the Unalakleet River, the most important salmon producing river in Norton Sound. Historically, the people of the area have depended on the salmon runs, both for subsistence needs and as the basis of their cash economy.

Attempts to assess salmon escapement have included aerial surveys, in season subsistence surveys, test fishing, counting towers, and side scan sonar. In season subsistence surveys have been used to assess timing, magnitude and the duration of the chinook salmon return (Bue and Lean 1988, 1990 and Lean 1986a, 1987a). A counting tower was used on the North River, an important tributary, for three years (Lean 1985a, 1986b, 1987b). Hydroacoustic counting techniques have been used unsuccessfully in three prior years (Lean and Peterson 1983, 1984; Lean 1985b). Test fishing with set gill nets in the river has been utilized since 1981 to provide an index of return strength by species (Lean and Peterson 1982, 1983, 1984, 1985; Lean 1986a, 1987a, 1989, 1991; Bue and Lean 1988, 1990; Bue 1994a, 1994b). This report presents test fishing results from the 1993 season.

METHODS

Project Deployment

Test fishing began June 7 and ended September 8. The same site has been used since 1981 and is located approximately three miles upstream from the Unalakleet River mouth on the north bank (Figure 1). Chinook salmon subsistence fishermen were interviewed daily from June 6 to July 1.

Test Fishing

Similar gear for set gillnet test fishing has been used since 1981. Nets with mesh size 5 7/8" stretch measure and 20 fathoms in length were fished exclusively this season. All nets were made of multi-filament nylon #63 (210/18) twine, light green in color with cork lines of 1/2 inch braided nylon stretch measure and "Spongex" floats at 30 inch intervals. Lead lines consisted of braided lead core line with a weight of 95 pounds per 100 feet. All nets were hung at a 2:1 ratio.

An effort has been made over the past twelve seasons to use standard technique in setting the nets. The net is set in a line between a willow bush that serves as the on shore anchor and the downstream point of an island offshore from the net site. The standard nets have been cut to 20 fathoms length which causes the net to cover the northern half of that river channel.

The test net was fished throughout the season with one day, usually Sunday, taken off each week. Test fishing days were 24 hours in duration and began at 9:00 a.m. The gill net was usually picked twice daily, and occasionally more often to prevent fish or debris saturation. Occasionally the net was left unchecked for more than 24 hours to collect data on days off during peak migration periods.

All fish caught in the test net were delivered to a local subsistence fisher, as per agreement for the use of her family's traditional set net site. When this person did not want fish, she would decide who to give them to among the village elders. From the daily catch and time fished, a daily catch per unit effort (CPUE) of catch/100 fathom/hours could be calculated for each species. Cumulative CPUE (calculated as cumulative catch/100 fathom/cumulative hours) was calculated beginning with the first chinook salmon captured, and the tenth pink, coho, and chum salmon, to compensate for fishing time expended prior to the beginning of the salmon runs.

Catch Sampling

Commercial catch sampling goals were 150 chinook salmon from both Unalakleet and Shaktoolik Subdistricts, 300 coho salmon and 450 chum salmon from the Unalakleet Subdistrict. Chum salmon were to be collected in three strata sampling periods from June 25 to July 28 at the rate of 150 samples per period.

Age, sex and length data were collected from all chinook, coho and chum salmon caught in the test net. Pink salmon were only counted. Data were recorded on standard "mark sense" data entry forms. Scales were mounted on gum cards and pressed on acetate cards. Aging was done by a biologist in Kotzebue by projecting the scale impression on a microfiche reader. Three scales were taken from each chinook and coho to compensate for regenerated and unreadable scales. Only one scale was required from chum salmon. Test fish catch sampling was done outside the bunk house and the fish were distributed to subsistence users soon after.

Subsistence Survey

One to eight subsistence fishermen were interviewed daily from June 6 to July 1 as an additional index of the chinook run. Fishermen were chosen for reliability and willingness to share catch information. Mean daily catches and locations were compared daily in an effort to track the movement and magnitude of the chinook run.

RESULTS

Test Fishing

A total of 91 chinook (69% male, 31% female), 138 coho (52% male, 48% female), 194 pink and 635 chum (66% male, 34% female) salmon were captured in the test nets from June 7 to September 8. Peak daily CPUE's occurred on June 24, July 3, and July 7 for chinook, August 18 for coho, July 12 for pinks and on June 19,

July 26, and August 24 for chum salmon. Daily CPUE data is presented in Appendices Tables 1-4 and sample data is located in Tables 1-6.

Appendices 1-4 show the standardized cumulative CPUE for salmon caught in the Unalakleet River tests net. All CPUE values shown in these tables are calculated using the same method. The 1981 catch and CPUE are not comparable to subsequent years because of fishing site conflicts during July and August with the local family.

Comparative catch statistics show that the 1993 chinook salmon cumulative CPUE was 4% above the previous 11-year average (1982-92). Coho salmon CPUE was 20% below the 11-year average (1982-92). Chum and pink salmon CPUE was 18% and 79% below the 11-year average, respectively.

Catch Sampling

Commercial catch sampling produced 139 ageable chinook salmon, 123 coho salmon and 441 chum salmon samples from the Unalakleet subdistrict. Tables 1-6 present the age, sex and length data collected by project staff in both the commercial and test gear types. Male chinook salmon comprised the greatest percentage in both fisheries while female chinook tend to be larger than males in the same year class. Overall the test fishery caught slightly smaller chinook salmon than the commercial fishery which can be attributed to the use of smaller mesh size. Coho salmon were primarily 4 year old fish. Females comprised 39.8% of the commercial samples and 48.3% of the test fish samples. Five year old chum salmon out numbered 4 year olds in proportion in both fisheries with males predominant in the test fishery while the commercial fishery had an even sex ratio.

Subsistence Survey

The in season subsistence surveys conducted during the chinook salmon subsistence fishery is used as a subjective tool by fishery managers. The numerous subsistence nets located in the Unalakleet River mouth area are monitored as indicators of chinook salmon passage. Relative catch rates show when the run is increasing or decreasing and pulses of fish (Table 9). The number of nets or fishing effort indicates the progress of the return, where the number of nets seem to be related to abundance. The 1993 season was earlier than usual. Subsistence catches were slightly above average and fishing effort was slightly below average. Apparently subsistence fishermen have reversed the recent trend by moving their effort back to the ocean. Less debris from spring run off is encountered in marine waters and commercial fishermen have a chance to test out gear before the commercial fishing season starts. Subsistence fishing for other salmon species appeared fairly low. Seining currently seems to be the most popular fishing method in the Unalakleet River especially when there is a lot of debris.

DISCUSSION

The 1984 project report presented all the annual test fishing catches to that time. This project now serves as an index of escapement so only 5 7/8" test nets are used and only historic data from that mesh size is presented here for comparison. The other mesh sizes have been dropped since the test net catches are no longer used to apportion sonar counts by species.

Comparisons of cumulative CPUE by year for each salmon species show a correlation between the commercial and test fisheries (Figure 2). Both commercial CPUE and test fish CPUE indices are useful management tools when combined with run timing data (Tables 7 and 8, Figure 3, and Appendices 1-4). An example would be the coho run in 1985 when it became evident that the run was weak from comparing catch rates with catches from the same time period in previous years. Commercial fishing time was reduced which resulted in a near average test fish CPUE by the end of the season.

Currently an escapement index has not yet been fully developed. Tower counts and aerial surveys for the North River are too few and inconsistent to provide an adequate data base for annual comparisons or comparisons with other indices (Table 8). Furthermore, it is not known how the North River compares to the entire Unalakleet River system. Presently the best index of escapement for the Unalakleet River system is thought to be the test fish project which can now be used to evaluate the relative size of returns from recent brood years.

Commercial catch sampling goals were met for all categories except Shaktoolik catches which were strictly on an opportunistic basis. Chinook salmon were flown from Shaktoolik to Unalakleet already packed in ice and were stored at the Unalakleet airport until they could be shipped out. Consequently there was little opportunity to obtain the desired samples.

The low level of subsistence fishing effort in the Unalakleet River this year made it difficult to obtain interviews of fishermen who actually fished in the river. Since subsistence chinook salmon catches in the ocean are larger and appear to be replacing the river subsistence catches, both river and ocean fishermen should be interviewed. Over the 25 years subsistence harvest data has been collected the average harvest by household of chinook salmon appears to be increasing, harvest of chum salmon is decreasing, while the coho and pink salmon harvest varies from year to year (Appendix Table 5).

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Table 1. Unalakleet River chinook salmon test fish age and sex composition and mean length, 1993.

		Brood Year and (Age Group)			
		1989 (1.2)	1988 (1.3)	1987 (1.4)	Total
Stratum Dates:	6/08–7/13				
Sampling Dates:	6/10–8/30				
Sample Size:	83				
Female	Percent of Sample	6.0	9.6	15.7	31.3
	Number in Catch	5	8	13	26
	Mean Length (mm)[a]	661.0	696.0	829.6	
	Standard Error	36.4	20.9	7.1	
Male	Percent of Sample	47.0	16.9	4.8	68.7
	Number in Catch	39	14	4	57
	Mean Length (mm)[a]	561.1	682.5	873.8	
	Standard Error	4.8	19.4	44.3	
Total	Percent of Sample	53.0	26.5	20.5	100.0
	Number in Catch	44	22	17	83
	Standard Error	5	4	4	

[a] Length was from mid–eye to fork–of–tail.

Table 2. Norton Sound Subdistrict 6 chinook salmon commercial catch sample age and sex composition and mean length, 1993.

		Brood Year and (Age Group)						
		1989 (1.2)	1988 (1.3)	1987 (1.4)	1987 (2.3)	1986 (1.5)	1986 (2.4)	Total
Stratum Dates:	6/14–9/08							
Sampling Dates:	6/15–6/22							
Sample Size:	139							
Female	Percent of Sample	2.2	8.6	25.2	0.7	2.2	0.7	39.6
	Number in Catch	128	513	1,497	43	128	43	2,352
	Mean Length (mm)[a]	608.3	766.0	866.3	780.0	867.3	870.0	
	Standard Error	16.4	22.8	7.2	0.0	6.5	0.0	
Male	Percent of Sample	25.2	18.7	15.8	0.0	0.7	0.0	60.4
	Number in Catch	1,497	1,112	941	0	0	0	3,592
	Mean Length (mm)[a]	554.2	726.6	845.5		1095.0		
	Standard Error	7.7	13.1	13.6		0.0		
Total	Percent of Sample	27.3	27.3	41.0	0.7	2.9	0.7	100.0
	Number in Catch	1,625	1,625	2,437	43	171	43	5,944
	Standard Error	226	226	249	43	85	43	

[a] Length was from mid–eye to fork–of–tail.

Table 3. Unalakleet River coho salmon test fish age and sex composition and mean length, 1993.

		Brood Year and (Age Group)			
		1990 (1.1)	1989 (2.1)	1988 (3.1)	Total
Stratum Dates:	7/26–9/08				
Sampling Dates:	7/26–9/08				
Sample Size:	116				
Female	Percent of Sample	6.9	41.4	0.0	48.3
	Number in Catch	8	48	0	56
	Mean Length (mm)[a]	586.3	571.4		
	Standard Error	8.1	4.2		
Male	Percent of Sample	10.3	40.5	0.9	51.7
	Number in Catch	12	47	1	60
	Mean Length (mm)[a]	573.3	584.8	620.0	
	Standard Error	6.8	6.0	0.0	
Total	Percent of Sample	17.2	81.9	0.9	100.0
	Number in Catch	20	95	1	116
	Standard Error	4	4	1	

[a] Length was from mid–eye to fork–of–tail.

Table 4. Norton Sound Subdistrict 6 coho salmon commercial catch sample age and sex composition, and mean length, 1993.

		Brood Year and (Age Group)			
		1990 (1.1)	1989 (2.1)	1988 (3.1)	Total
Stratum Dates:	6/14–9/08				
Sampling Dates:	8/06–8/16				
Sample Size:	123				
Female	Percent of Sample	3.3	35.8	0.8	39.8
	Number in Catch	4	44	1	49
	Mean Length (mm)[a]	563.8	557.0	570.0	
	Standard Error	5.9	4.3	0.0	
Male	Percent of Sample	8.9	48.8	2.4	60.2
	Number in Catch	11	60	3	74
	Mean Length (mm)[a]	530.0	563.6	573.3	
	Standard Error	14.8	3.9	27.4	
Total	Percent of Sample	12.2	84.6	3.3	100.0
	Number in Catch	15	104	4	123
	Standard Error	4	4	2	

[a] Length was from mid–eye to fork–of–tail.

Table 5. Unalakleet River chum salmon test fish age and sex composition and mean length, 1993.

		Brood Year and (Age Group)				
		1989 (0.3)	1988 (0.4)	1987 (0.5)	1986 (0.6)	Total
Stratum Dates:	6/08–9/02					
Sampling Dates:	6/08–9/02					
Sample Size:	324					
Female	Percent of Sample	9.0	17.3	7.4	0.3	34.0
	Number in Catch	29	56	24	1	110
	Mean Length (mm)[a]	560.4	579.3	593.8	590.0	
	Standard Error	4.9	3.7	5.1	0.0	
Male	Percent of Sample	27.8	32.1	6.2	0.0	66.0
	Number in Catch	90	104	20	0	214
	Mean Length (mm)[a]	585.9	594.6	608.3		
	Standard Error	3.0	2.7	7.1		
Total	Percent of Sample	36.7	49.4	13.6	0.3	100.0
	Number in Catch	119	160	44	1	324
	Standard Error	9	9	6	1	

[a] Length was from mid–eye to fork–of–tail.

Table 6. Norton Sound Subdistrict 6 chum salmon commercial catch sample age and sex composition, and mean length, 1993.

		Brood Year and (Age Group)				
		1990 (0.2)	1989 (0.3)	1988 (0.4)	1987 (0.5)	Total
Stratum Dates:	6/14–9/08					
Sampling Dates:	6/30–8/09					
Sample Size:	441					
Female	Percent of Sample	0.2	15.9	26.5	7.0	49.7
	Number in Catch	1	70	117	31	219
	Mean Length (mm)[a]	510.0	555.7	570.6	581.8	
	Standard Error	0.0	3.1	2.5	5.2	
Male	Percent of Sample	0.2	19.7	26.1	4.3	50.3
	Number in Catch	1	87	115	19	222
	Mean Length (mm)[a]	535.0	574.8	581.5	602.4	
	Standard Error	0.0	3.0	2.8	5.2	
Total	Percent of Sample	0.5	35.6	52.6	11.3	100.0
	Number in Catch	2	157	232	50	441
	Standard Error	1	10	10	7	

[a] Length was from mid–eye to fork–of–tail.

Table 7. Mean dates of commercial and test fish CPUE, Unalakleet Subdistrict, Norton Sound District, 1981–1993.

	Chinook		Coho		Chum		Pink
	C/F	T/F	C/F	T/F	C/F	T/F	T/F
1981	6/20		8/15	8/19	7/18	7/29	7/22
1982	6/23	6/23	8/14	9/01	7/17	7/13	7/07
1983	6/25	6/20	8/13	9/04	7/14	7/20	7/12
1984	6/29	7/05	8/15	8/22	7/18	7/16	7/11
1985	7/06	7/08	8/21	8/21	7/24	7/09	7/17
1986	6/28	6/26	8/13	8/14	7/16	7/23	7/02
1987	6/26	7/07	8/15	8/24	7/11	7/23	7/21
1988	6/24	6/24	8/13	8/12	7/13	7/22	7/05
1989	6/20	6/18	8/09	8/15	7/12	7/11	7/18
1990	6/23	6/20	8/11	8/19	7/07	7/13	7/14
1991	6/26	6/27	8/10	8/23	7/17	7/20	7/23
1992	7/8	7/12	8/12	8/12	7/8	7/11	7/13
1993	6/26	6/25	8/17	8/24	7/10	7/29	7/14
1981–1992 Average	6/27	6/28	8/13	8/21	7/15	7/16	7/14

Table 8. Comparison of commercial catch and escapement data for the Unalakleet Subdistrict, Norton Sound District, 1981–1993.

Commercial Fishery[a]			Escapement[b]			
Year	Catch	Cum. CPUE	Test Catch	Test Cum. CPUE	North River Tower	North River Aerial
CHINOOK						
1981	6157					
1982	3768	0.2	22	0.64		8
1983	7022	0.3	18	0.42		347
1984	6804	0.7	41	0.85	2844	51
1985	12621	1.1	171	1.60	1426	703
1986	4494	0.3	49	0.42	1613	
1987	3246	0.3	42	0.34		445
1988	2218	0.2	13	0.19		
1989	4402	0.4	45	0.40		
1990	5998	0.5	41	0.48		255
1991	4534	0.3	33	0.25		256
1992	3402	0.1	23	0.18		329
1993	5944	0.2	91	0.53		900
1982–1992 Average	5319	0.4	45	0.5		
COHO						
1981	29845	1.4	310	0.81		263
1982	61343	2.2	235	1.89		4145
1983	36098	1.6	184	1.12		
1984	47904	1.7	244	1.56		152
1985	15421	0.5	175	1.15	2045	
1986	20580	1.0	134	0.82		
1987	15097	1.1	133	0.88		680
1988	24265	1.0	178	0.93		
1989	36025	1.6	193	0.98		
1990	52015	2.6	263	1.86		
1991	52033	2.4	152	1.09		2510
1992	84449	3.3	427	2.69		398
1993	26290	0.9	138	1.12		1397
1981–1992 Average	39590	1.7	219	1.3		
CHUM						
1981	39186	0.8	1102	2.83		599
1982	44520	1.1	330	1.98		4135
1983	109220	2.4	547	2.30		
1984	43317	1.3	626	2.79	2915	1625
1985	25111	0.9	819	2.30	4567	
1986	29136	1.2	774	2.74	3738	
1987	17525	0.8	608	1.71		392
1988	25364	0.8	494	1.53		
1989	20825	0.6	736	2.42		
1990	23659	0.7	337	1.25		1345
1991	39609	1.1	735	2.24		2435
1992	52547	1.6	926	3.16		
1993	28156	0.9	635	1.83		445
1981–1992 Average	39168	1.1	670	2.3		

[a] 1986 commercial chum catch and Cum. CPUE through August 9.
[b] 1986 North River Tower count through July 18.

Table 9. Unalakleet River and Unalakleet Subdistrict subsistence catch and effort 1982–1993.[a] (p. 1 of 5)

	1982			1983			1984		
DATE	# fish–ermen	# king	daily mean	# fish–erman	# king	daily mean	# fish–erman	# king	daily mean
6/06									
6/07									
6/08				4	3	0.8			
6/09				4	1	0.2			
6/10				4	7	1.8			
6/11				4	2	0.5			
6/12				4	2	0.5			
6/13				4	0	0.0			
6/14	2	4	2.0	4	1	0.2			
6/15	3	0	0.0	4	23	5.8			
6/16	4	5	1.2	4	37	9.2			
6/17	3	5	1.7	4	25	6.2			
6/18	5	9	1.8	4	29	7.2			
6/19	6	9	1.5	4	29	7.2			
6/20	6	10	1.7	4	17	4.2			
6/21	5	10	2.0	4	11	2.8			
6/22	4	3	0.8	4	21	5.2			
6/23	4	7	1.8	4	24	6.0	3	1	0.3
6/24	4	6	1.5	4	25	6.2	4	5	1.2
6/25	4	13	3.2	3	6	2.0	5	18	3.6
6/26	4	2	0.5	3	14	4.7	5	13	2.6
6/27	3	3	1.0	3	15	5.0	4	20	5.0
6/28	3	9	3.0	4	14	3.5	5	66	13.2
6/29	3	8	2.7	4	10	2.5	5	22	4.4
6/30	4	7	1.8	4	6	1.5	5	25	5.0
7/01	5	16	3.2				4	33	8.2
7/02	6	41	6.8				3	41	13.7
7/03	5	73	14.6				2	16	8.0
7/04	4	40	10.0				2	9	4.5
7/05	3	24	8.0				2	16	8.0
7/06	3	27	9.0						
7/07	4	21	5.2						
7/08	3	3	1.0						
7/09	3	16	5.3						
7/10	3	2	0.7						
7/11	4	10	2.5						
7/12	2	2	1.0						
7/13	2	0	0.0						
7/14									
7/15									
7/16									
7/17									

–continued–

[a] Only a select number of fishermen were interviewed, therefore catch and effort data presented here do not represent the total for the Unalakleet river. Net counts began in 1985.

Table 9. (p. 2 of 5).

	1985				1986				1987			
DATE	# fish-ermen	# king	daily mean	# nets observed	# fish-erman	# king	daily mean	# nets observed	# fish-erman	# king	daily mean	# nets observed
6/06												
6/07												
6/08												
6/09												
6/10												
6/11												
6/12												
6/13												
6/14												
6/15												
6/16												
6/17												7
6/18									1	0	0.0	10
6/19								14	2	1	0.5	14
6/20								19	2	2	1.0	16
6/21					6	27	4.5	21	3	7	2.3	
6/22					6	22	3.7	21	3	3	1.0	17
6/23					5	13	2.6	16	5	3	0.6	18
6/24					5	34	6.8	16	3	4	1.3	19
6/25					6	93	15.5	15	3	8	2.7	20
6/26	4	1	0.2	16	3	87	29.0	20	1	1	1.0	22
6/27	4	2	0.5	16	3	38	12.7	21	4	12	3.0	22
6/28	4	2	0.5	19	1	9	9.0	19	5	56	11.2	21
6/29	4	9	2.2	19	5	8	1.6	16	7	60	8.6	22
6/30	5	78	15.6	16	4	9	2.2	15	6	29	4.8	15
7/01	3	37	12.3	13	4	11	2.7	10	7	57	8.1	23
7/02	3	19	6.3	12	3	5	1.7	7	6	8	1.3	26
7/03	3	19	6.3	11	2	2	1.0	6	4	9	2.3	22
7/04	3	20	6.7	12					3	2	0.7	22
7/05	4	31	7.8	13							0.0	
7/06	4	5	1.2	12					4	11	2.8	17
7/07	3	14	4.7						2	5	2.5	19
7/08	3	43	14.3	11					2	4	2.0	17
7/09	4	44	11.0	10					2	1	0.5	18
7/10	3	12	4.0	11					2	0	0.0	9
7/11	3	7	2.3	9					1	5	5.0	13
7/12	3	7	2.3	10					1	6	6.0	
7/13	3	9	3.0	11					1	0	0.0	9
7/14	4	3	0.8	10							0.0	10
7/15	3	11	3.7	12					1	0	0.0	10
7/16												
7/17												

-continued-

Table 9. (p. 3 of 5).

	1988				1989 River				1989 Ocean		
DATE	# fish-ermen	# king	daily mean	# nets observed	# fish-ermen	# king	daily mean	# nets observed	# fish-ermen	# king	daily mean
6/06	3	5	1.7	10					1	6	6.0
6/07									1	1	1.0
6/08	3	0	0.0	9					4	23	5.8
6/09	1	0	0.0	10					4	54	13.5
6/10				10							
6/11	4	6	1.5	12					1	35	35.0
6/12								5	3	43	14.3
6/13	2	0	0.0	5	1	0	0.0	5	3	14	4.7
6/14	1	0		7				6	6	113	18.8
6/15	1	0	0.0	15				5	1	30	30.0
6/16	2	1	0.5	15				7			
6/17	2	1	0.5	15							
6/18	1	5	5.0	14							
6/19											
6/20	2	3	1.5	10	3	22	7.3	7	1	1	1.0
6/21	4	24	6.0	10	3	7	2.3	7			
6/22	3	37	12.3	12	2	2	1.0	8			
6/23	1	6	6.0	15	3	18	6.0	12			
6/24				15	4	27	6.8	14			
6/25	1	9	9.0	13							
6/26											
6/27				14	1	7	7.0	5			
6/28					1	1	1.0	8			
6/29								10			
6/30											
7/01								9			
7/02											
7/03											
7/04								4			
7/05								3			
7/06								4			
7/07								7			
7/08								0			
7/09											
7/10											
7/11								1			
7/12								1			
7/13								1			
7/14								1			
7/15								1			
7/16											
7/17											

-continued-

Table 9. (p. 4 of 5).

	1990				1991				1992			
DATE	# fish-ermen	# king	daily mean	# nets observed	# fish-ermen	# king	daily mean	# nets observed	# fish-ermen	# king	daily mean	# nets observed
6/06												
6/07												
6/08												
6/09												
6/10												
6/11					2	0	0.0	5				
6/12					6	27	4.5	7				
6/13					2	6	3.0	9				
6/14	4	44	11.0	8	4	11	2.8	9				
6/15	0	0	0.0	6	5	34	6.8	11				
6/16					1	10	10.0	7				
6/17					1	6	6.0	7				
6/18	2	11	5.5	1	1	4	4.0	4				
6/19	4	7	1.8	7	3	1	0.3	12				
6/20	2	5	2.5	9	6	13	2.2					
6/21	4	36	9.0		4	4	1.0	8				
6/22	2	25	12.5	9	5	12	2.4	10				
6/23	1	2	2.0	9				0				
6/24					1	0	0.0					
6/25	1	3	3.0	2	2	7	3.5	10	2	1	0.5	6
6/26	1	0	0.0	7	3	14	4.7		5		0.0	13
6/27	3	2	0.7	6	3	5	1.7	10	9	2	0.2	16
6/28	3	1	0.3	8	1	0	0.0	7	4	1	0.3	9
6/29	2	8	4.0	8	3	31	10.3	5	2	5	2.5	10
6/30	2	5	2.5	11					2	2	1.0	18
7/01								0	1	4	4.0	11
7/02				0				3	1	4	4.0	5
7/03				1					2	1	0.5	5
7/04	1	2	2.0	4					2	0	0.0	3
7/05	0	0	0.0	2					1	8	8.0	2
7/06				0					4	13	3.3	3
7/07				0					5	6	1.2	5
7/08									1	0	0.0	2
7/09				2					1	0	0.0	2
7/10				2					1	0	0.0	4
7/11									0	0		3
7/12												2
7/13												2
7/14												2
7/15												2
7/16									1	6	6.0	7
7/17												6
7/18												2
7/19												
7/20												0
7/21												1
7/22												1
7/23												1

–continued–

Table 9. (p. 5 of 5).

	1993			
DATE	# fish–ermen	# king	daily mean	# nets observed
6/06	1	1	1.0	
6/07	2	11	5.5	
6/08	6	31	5.2	
6/09	7	31	4.4	
6/10	8	55	6.9	
6/11	4	32	8.0	
6/12	2	28	14.0	
6/13	2	14	7.0	
6/14	6	57	9.5	
6/15	2	20	10.0	
6/16	6	25	4.2	
6/17	3	35	11.7	15
6/18	4	20	5.0	10
6/19	3	17	5.7	9
6/20				1
6/21				1
6/22	6	68	11.3	9
6/23	5	25	5.0	12
6/24	6	56	9.3	13
6/25	8	51	6.4	14
6/26	3	12	4.0	10
6/27				0
6/28	2	13	6.5	3
6/29	2	14	7.0	3
6/30	2	8	4.0	5
7/01	2	5	2.5	8
7/02				4
7/03				2
7/04				
7/05				
7/06				
7/07				
7/08				
7/09				
7/10				
7/11				
7/12				
7/13				
7/14				
7/15				
7/16				
7/17				
7/18				
7/19				
7/20				
7/21				
7/22				
7/23				

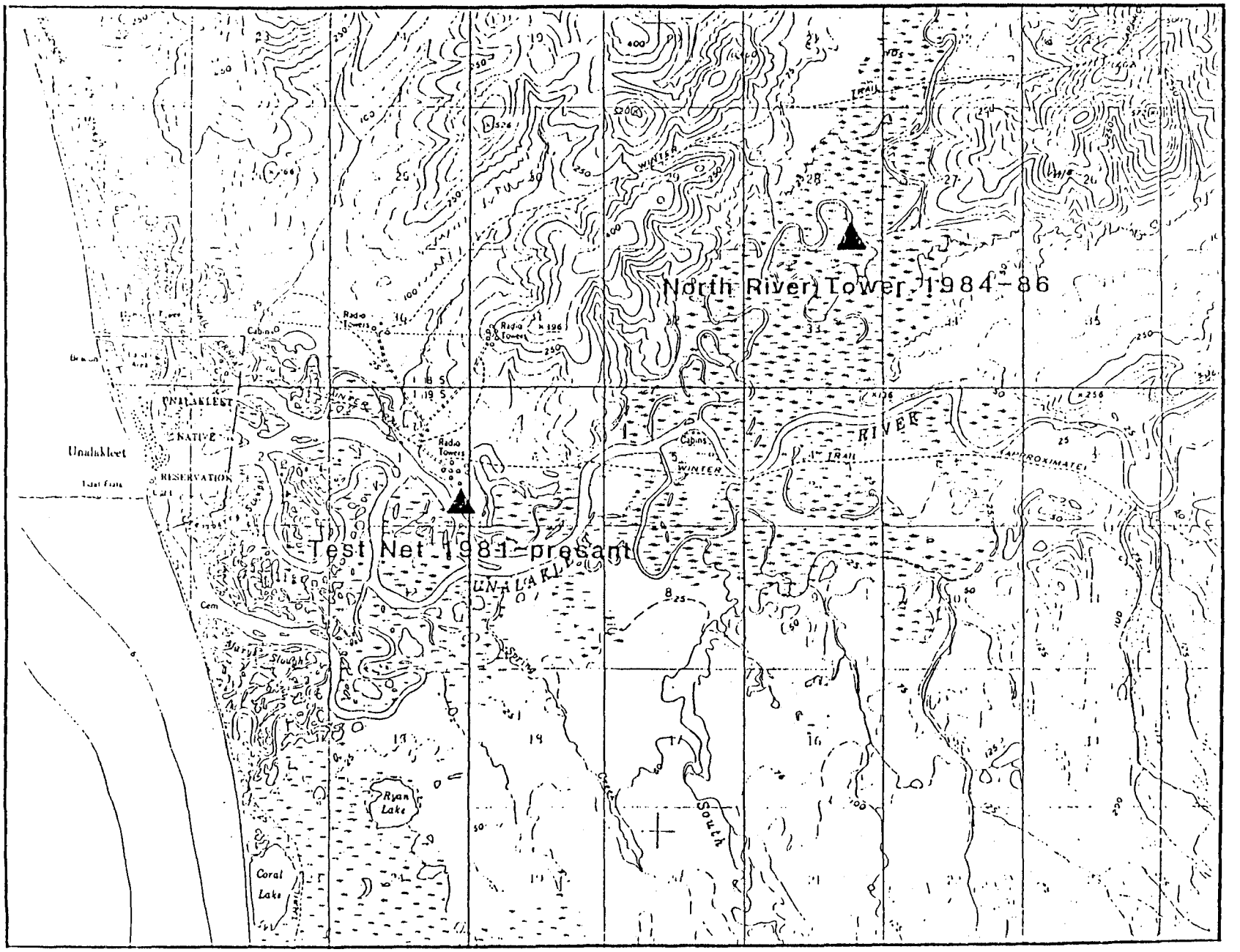

Figure 1. Site locations of Unalakleet River escapement projects, Norton Sound District

Comparison of Commercial & Test Fish Salmon Catches

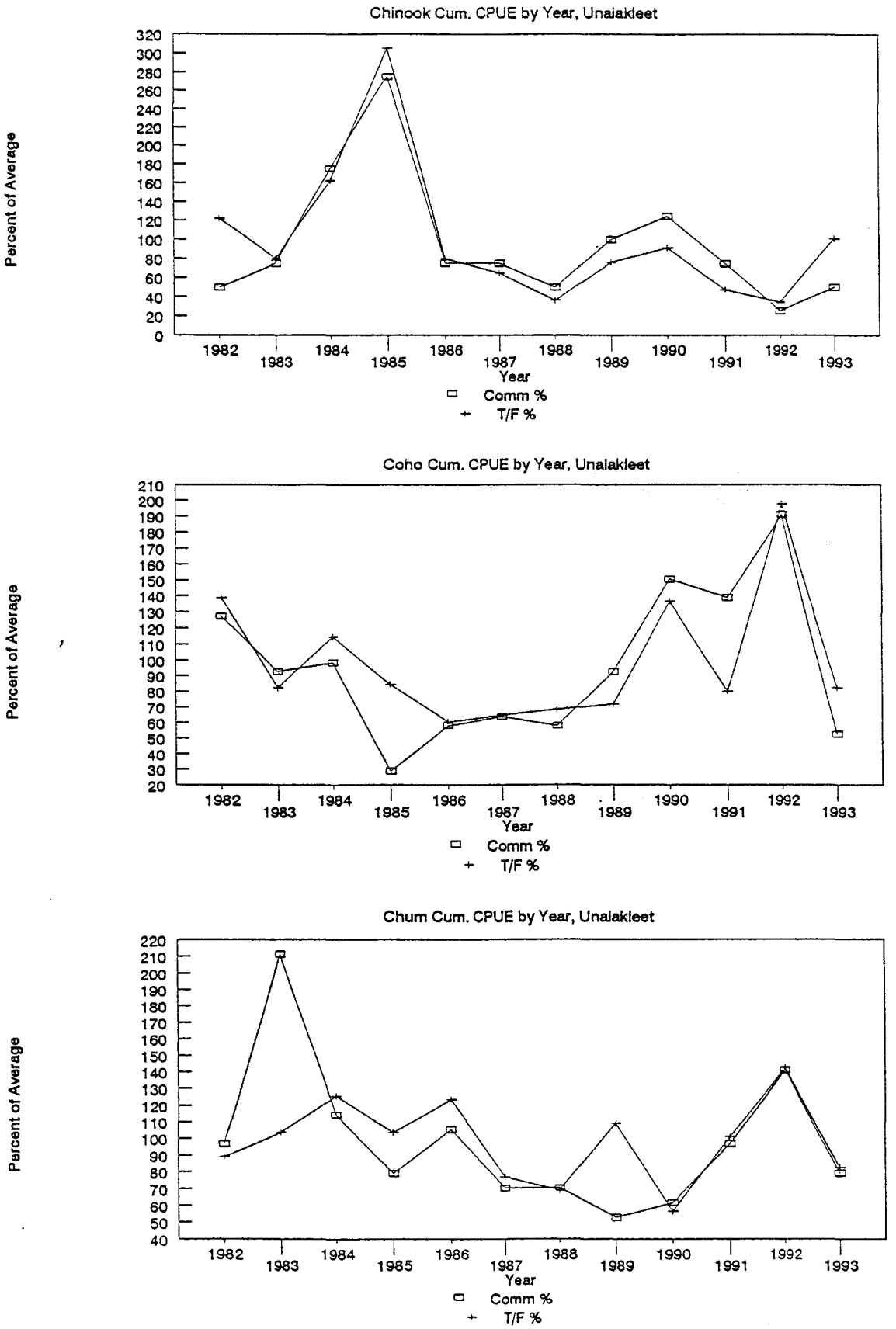

Figure 2. Comparisons of commercial and test fish cumulative CPUE for each salmon species by year as a percent of the previous 11-year average (1982-1992). Unalakleet Subdistrict, Norton Sound District, 1993.

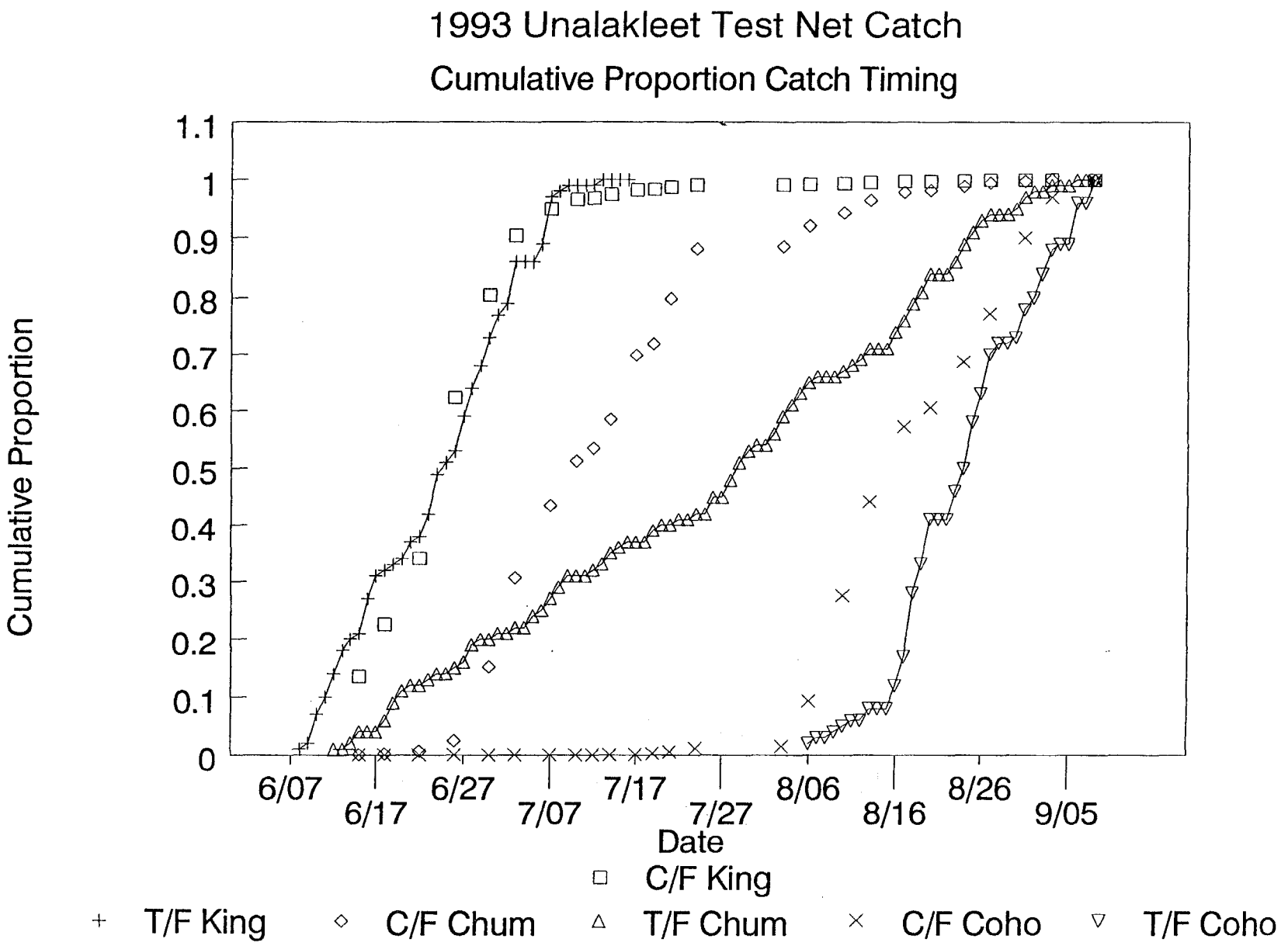

Figure 3. Commercial and test fish cumulative proportion curves showing run timing of salmon by date, Unalakleet Subdistrict, Norton Sound District, 1993.

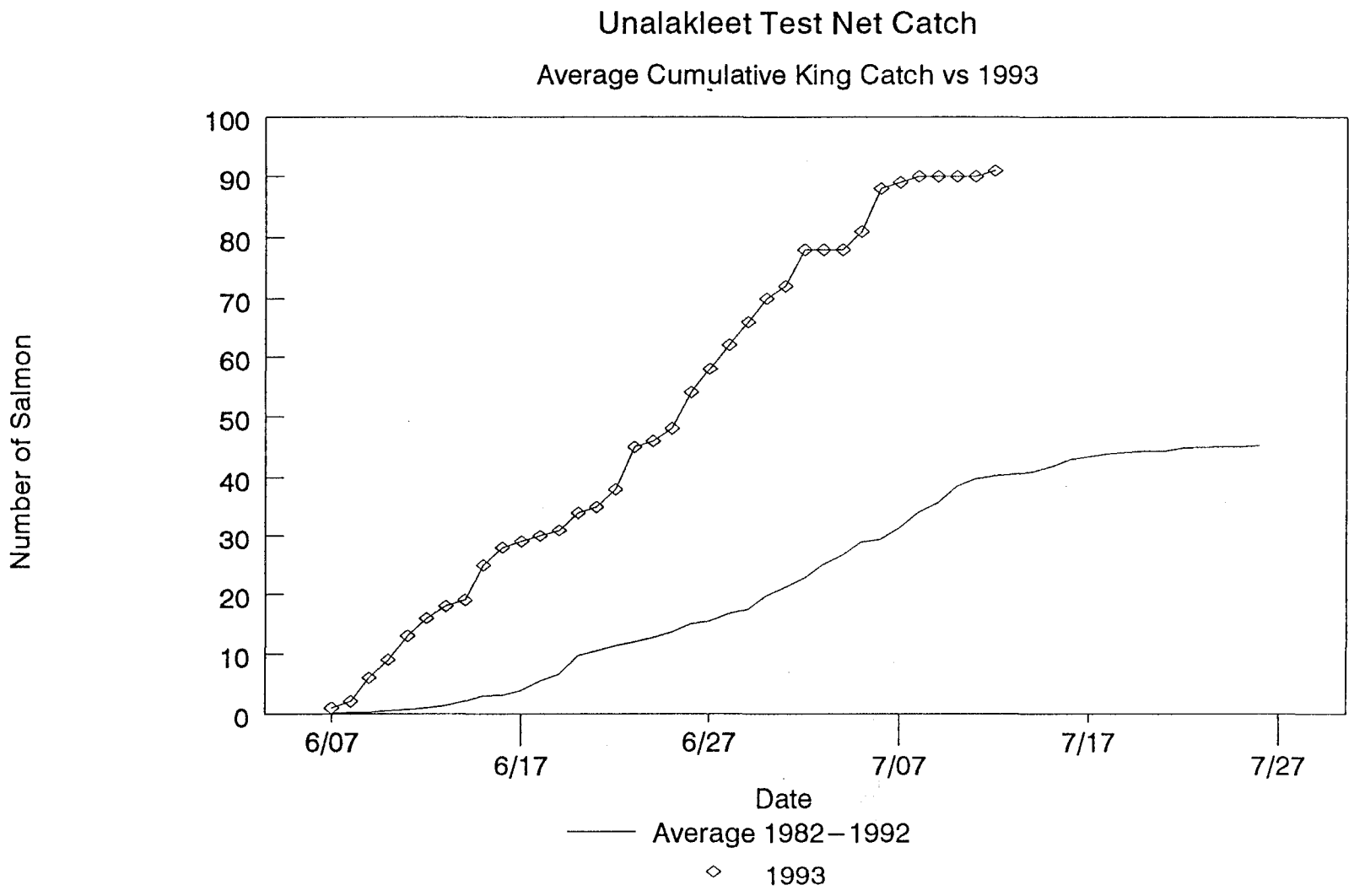

Figure 4. The 1993 Unalakleet River cumulative chinook salmon test net catch as compared to the previous 11 year average, Norton Sound District, 1993.

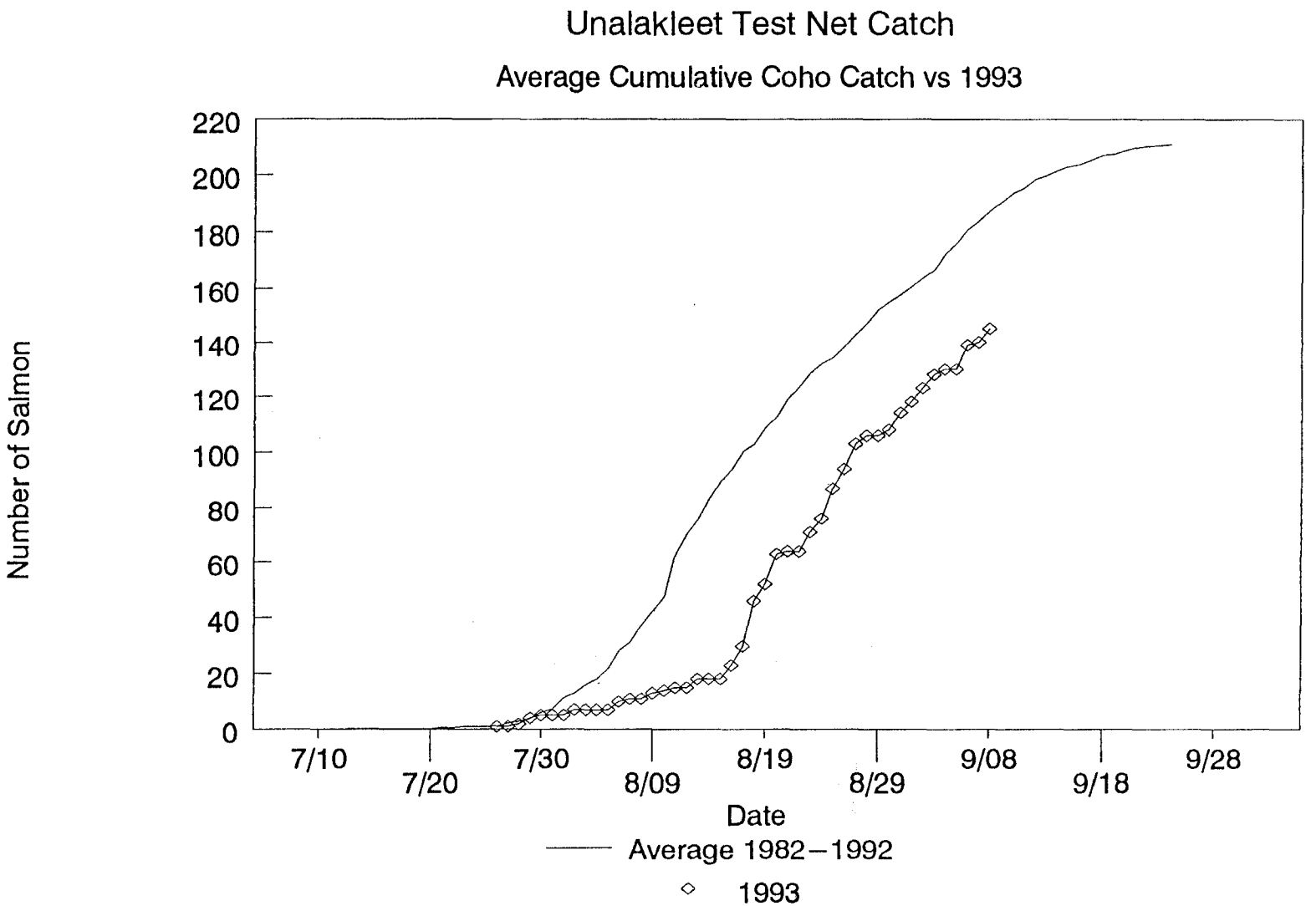

Figure 5. The 1993 Unalakleet River cumulative coho salmon test net catch as compared to the previous 11 year average, Norton Sound District, 1993.

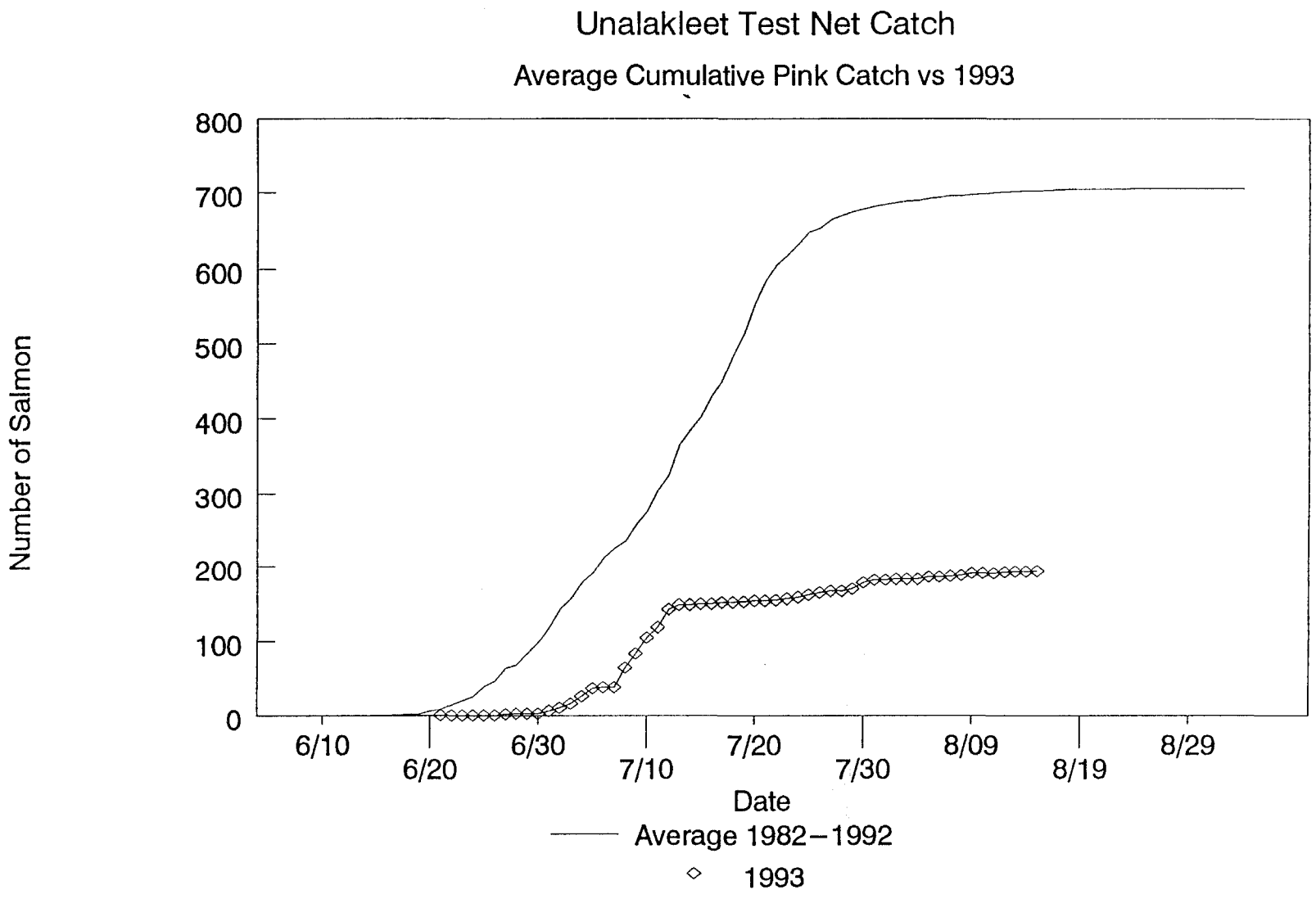

Figure 6. The 1993 Unalakleet River cumulative pink salmon test net catch as compared to the previous 11 year average, Norton Sound District, 1993.

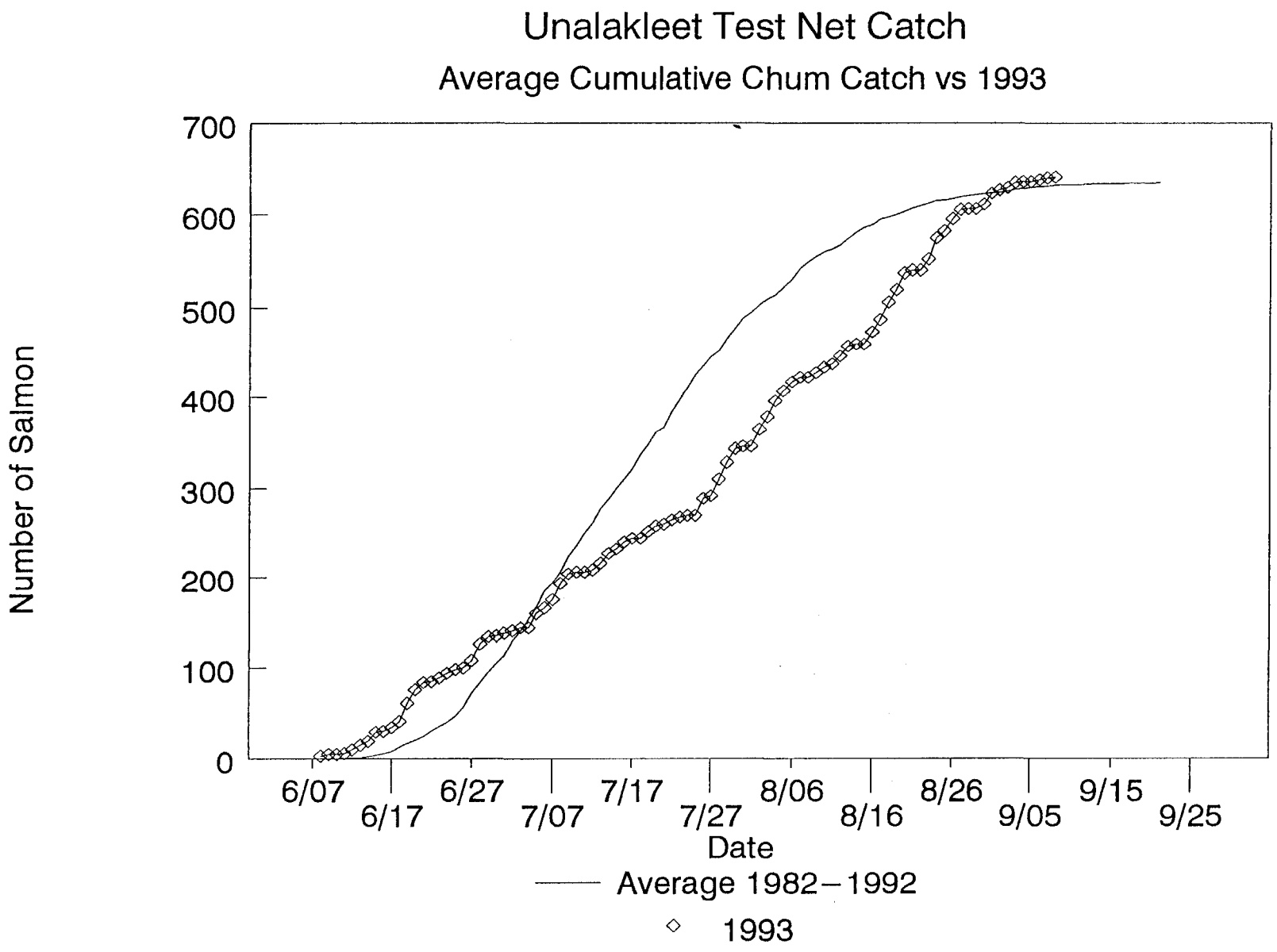

Figure 7. The 1993 Unalakleet River cumulative chum salmon test net catch as compared to the previous 11 year average, Norton Sound District, 1993.

Appendix Table 1. Unalakleet test net catches of chinook salmon in 5 7/8" gear, 1982–1993. (p.1 of 6)

	chinook salmon catch, 1982 counts begin the day the first salmon was caught					chinook salmon catch, 1983 counts begin the day the first salmon was caught				
Date	King Hours	Catch	CPUE	CUM CPUE	CP(C)	King Hours	Catch	CPUE	CUM CPUE	CP(C)
6/07						12.6	1	0.40	0.40	0.06
6/08						12.7	1	0.39	0.40	0.11
6/09								0.00	0.40	0.11
6/10						11.4	0	0.00	0.27	0.11
6/11								0.00	0.27	0.11
6/12						11.3	2	0.88	0.42	0.22
6/13								0.00	0.42	0.22
6/14						11.9	2	0.84	0.50	0.33
6/15						11.6	1	0.43	0.49	0.39
6/16	24.0	1	0.21	0.21	0.05			0.00	0.49	0.39
6/17			0.00	0.21	0.05	11.6	2	0.86	0.54	0.50
6/18	24.0	5	1.04	0.63	0.27			0.00	0.54	0.50
6/19			0.00	0.63	0.27	11.8	0	0.00	0.47	0.50
6/20	12.0	4	1.67	0.83	0.45			0.00	0.47	0.50
6/21			0.00	0.83	0.45	11.8	1	0.42	0.47	0.56
6/22	12.0	2	0.83	0.83	0.55	11.7	1	0.43	0.46	0.61
6/23	12.0	2	0.83	0.83	0.64			0.00	0.46	0.61
6/24			0.00	0.83	0.64	11.6	0	0.00	0.42	0.61
6/25	11.9	1	0.42	0.78	0.68			0.00	0.42	0.61
6/26			0.00	0.78	0.68	11.9	2	0.84	0.46	0.72
6/27	12.0	2	0.83	0.79	0.77			0.00	0.46	0.72
6/28			0.00	0.79	0.77	11.8	1	0.42	0.46	0.78
6/29	12.2	1	0.41	0.75	0.82	11.5	2	0.87	0.48	0.89
6/30	13.5	2	0.74	0.75	0.91			0.00	0.48	0.89
7/01			0.00	0.75	0.91	11.9	1	0.42	0.48	0.94
7/02	12.0	2	0.83	0.76	1.00			0.00	0.48	0.94
7/03						11.9	1	0.42	0.48	1.00
7/04										
7/05										
7/06										
7/07										
7/08										
7/09										
7/10										
7/11										
7/12										
7/13										
7/14										
7/15										
7/16										
7/17										
7/18										
7/19										
7/20										
7/21										
7/22										
7/23										
7/24										
7/25										
7/26										
Totals	145.6	22.0				189.0	18.0			
	Mean day of catch 6/23					Mean day of ctch 6/20				

Appendix Table 1. (p.2 of 6)

	chinook salmon catch, 1984 counts begin the day the first salmon was caught					chinook salmon catch, 1985 counts begin the day the first salmon was caught				
Date	King Hours	Catch	CPUE	CUM CPUE	CP(C)	King Hours	Catch	CPUE	CUM CPUE	CP(C)
6/07										
6/08										
6/09										
6/10										
6/11										
6/12										
6/13										
6/14										
6/15										
6/16										
6/17										
6/18										
6/19										
6/20										
6/21										
6/22										
6/23										
6/24										
6/25										
6/26	24.2	1	0.21	0.21	0.02	23.0	1	0.22	0.22	0.01
6/27			0.00	0.21	0.02	24.5	0	0.00	0.11	0.01
6/28	24.5	4	0.82	0.51	0.12	23.7	0	0.00	0.07	0.01
6/29			0.00	0.51	0.12	24.1	2	0.41	0.16	0.02
6/30	24.4	6	1.23	0.75	0.27	23.7	18	3.80	0.88	0.12
7/01			0.00	0.75	0.27	9.8	8	4.08	1.13	0.17
7/02			0.00	0.75	0.27	7.0	10	7.14	1.44	0.23
7/03	23.8	7	1.47	0.93	0.44	24.0	13	2.71	1.63	0.30
7/04			0.00	0.93	0.44	23.0	14	3.04	1.81	0.39
7/05	24.0	9	1.88	1.12	0.66	23.9	9	1.88	1.81	0.44
7/06			0.00	1.12	0.66	9.2	2	1.09	1.78	0.45
7/07	24.1	13	2.70	1.38	0.98			0.00	1.78	0.45
7/08			0.00	1.38	0.98	23.2	22	4.74	2.07	0.58
7/09	24.1	1	0.21	1.21	1.00	24.1	14	2.90	2.15	0.66
7/10						23.9	13	2.72	2.19	0.74
7/11						24.1	5	1.04	2.10	0.77
7/12						24.4	5	1.02	2.03	0.80
7/13						8.6	1	0.58	1.99	0.80
7/14								0.00	1.99	0.80
7/15						24.3	7	1.44	1.95	0.84
7/16						23.9	8	1.67	1.94	0.89
7/17						24.3	5	1.03	1.88	0.92
7/18						33.8	3	0.44	1.78	0.94
7/19						24.1	4	0.83	1.73	0.96
7/20								0.00	1.73	0.96
7/21								0.00	1.73	0.96
7/22						24.2	3	0.62	1.67	0.98
7/23						24.9	1	0.20	1.60	0.98
7/24						23.1	2	0.43	1.55	0.99
7/25						23.7	0	0.00	1.49	0.99
7/26						24.6	1	0.20	1.44	1.00
Totals	169.1	41.0				595.1	171.0			
	Mean day of catch 7/05					Mean day of catch 7/08				

Appendix Table 1. (p.3 of 6)

	chinook salmon catch, 1986 counts begin the day the first salmon was caught					chinook salmon catch, 1987 counts begin the day the first salmon was caught				
Date	King Hours	Catch	CPUE	CUM CPUE	CP(C)	King Hours	Catch	CPUE	CUM CPUE	CP(C)
6/07										
6/08										
6/09										
6/10										
6/11										
6/12										
6/13										
6/14										
6/15										
6/16										
6/17	23.9	1	0.21	0.21	0.02					
6/18	24.2	2	0.41	0.31	0.06					
6/19	24.1	3	0.62	0.42	0.12					
6/20	24.0	2	0.42	0.42	0.16	11.8	1	0.42	0.42	0.02
6/21	23.9	2	0.42	0.42	0.20			0.00	0.42	0.02
6/22	24.3	2	0.41	0.42	0.24	23.6	0	0.00	0.14	0.02
6/23	23.9	2	0.42	0.42	0.29	23.9	0	0.00	0.08	0.02
6/24	23.7	2	0.42	0.42	0.33	24.0	0	0.00	0.06	0.02
6/25	24.0	4	0.83	0.46	0.41	24.1	2	0.41	0.14	0.07
6/26	25.0	6	1.20	0.54	0.53	24.2	0	0.00	0.11	0.07
6/27	24.0	1	0.21	0.51	0.55			0.00	0.11	0.07
6/28	12.1	0	0.00	0.49	0.55	48.0	6	0.63	0.25	0.21
6/29	0.0	0	0.00	0.49	0.55	23.9	0	0.00	0.22	0.21
6/30	24.0	0	0.00	0.45	0.55	24.1	0	0.00	0.20	0.21
7/01	24.1	0	0.00	0.42	0.55	23.7	0	0.00	0.18	0.21
7/02	23.9	0	0.00	0.39	0.55	24.0	4	0.83	0.24	0.31
7/03	24.1	0	0.00	0.36	0.55	24.0	2	0.42	0.25	0.36
7/04	23.9	0	0.00	0.34	0.55			0.00	0.25	0.36
7/05	12.2	1	0.41	0.34	0.57	47.6	3	0.32	0.26	0.43
7/06	0.0	0	0.00	0.34	0.57	24.5	0	0.00	0.24	0.43
7/07	24.4	4	0.82	0.37	0.65	24.0	4	0.83	0.28	0.52
7/08	24.5	2	0.41	0.37	0.69	24.1	2	0.41	0.29	0.57
7/09	23.8	2	0.42	0.37	0.73	24.0	1	0.21	0.28	0.60
7/10	23.9	9	1.88	0.44	0.92	24.3	6	1.23	0.33	0.74
7/11	24.2	3	0.62	0.45	0.98	11.2	4	1.79	0.37	0.83
7/12	12.4	0	0.00	0.44	0.98			0.00	0.37	0.83
7/13	0.0	0	0.00	0.44	0.98	23.3	1	0.21	0.36	0.86
7/14	24.6	0	0.00	0.42	0.98	23.9	3	0.63	0.37	0.93
7/15	23.0	1	0.22	0.42	1.00			0.00	0.37	0.93
7/16						48.4	1	0.10	0.35	0.95
7/17						23.8	1	0.21	0.34	0.98
7/18						10.9	0	0.00	0.34	0.98
7/19								0.00	0.34	0.98
7/20						24.2	0	0.00	0.32	0.98
7/21						23.8	0	0.00	0.31	0.98
7/22						24.0	1	0.21	0.31	1.00
7/23										
7/24										
7/25										
7/26										
Totals	590.1	49.0				681.3	42.0			
	Mean day of catch 6/30					Mean day of catch 7/07				

Appendix Table 1. (p.4 of 6)

Date	chinook salmon catch, 1988 counts begin the day the first salmon was caught					chinook salmon catch, 1989 counts begin the day the first salmon was caught				
	King Hours	Catch	CPUE	CUM CPUE	CP(C)	King Hours	Catch	CPUE	CUM CPUE	CP(C)
6/07										
6/08										
6/09										
6/10										
6/11										
6/12										
6/13						23.5	3	0.64	0.64	0.07
6/14						24.0	5	1.04	0.84	0.18
6/15						24.0	4	0.83	0.84	0.27
6/16						23.9	0	0.00	0.63	0.27
6/17						24.0	4	0.83	0.67	0.36
6/18						24.0	7	1.46	0.80	0.51
6/19						24.8	3	0.60	0.77	0.58
6/20	24.3	1	0.21	0.21	0.08	22.3	1	0.22	0.71	0.60
6/21	23.9	2	0.42	0.31	0.23	23.8	1	0.21	0.65	0.62
6/22	24.0	3	0.63	0.42	0.46	24.0	1	0.21	0.61	0.64
6/23	24.2	0	0.00	0.31	0.46	24.0	2	0.42	0.59	0.69
6/24	23.7	1	0.21	0.29	0.54	11.0	0	0.00	0.57	0.69
6/25	9.0	0	0.00	0.27	0.54	0.0		0.00	0.57	0.69
6/26			0.00	0.27	0.54	23.8	3	0.63	0.57	0.76
6/27	24.1	1	0.21	0.26	0.62	24.0	0	0.00	0.53	0.76
6/28			0.00	0.26	0.62	24.0	0	0.00	0.49	0.76
6/29	53.0	1	0.09	0.22	0.69	24.0	0	0.00	0.46	0.76
6/30	19.1	0	0.00	0.20	0.69			0.00	0.46	0.76
7/01	24.2	0	0.00	0.18	0.69	34.8	2	0.29	0.45	0.80
7/02	10.3	1	0.49	0.19	0.77	0.0		0.00	0.45	0.80
7/03			0.00	0.19	0.77	24.1	2	0.41	0.44	0.84
7/04	24.2	0	0.00	0.18	0.77	24.0	2	0.42	0.44	0.89
7/05	24.0	2	0.42	0.19	0.92	23.9	1	0.21	0.43	0.91
7/06	24.0	0	0.00	0.18	0.92	24.1	3	0.62	0.44	0.98
7/07	24.1	0	0.00	0.17	0.92	24.0	0	0.00	0.42	0.98
7/08	23.9	1	0.21	0.17	1.00	10.0	0	0.00	0.41	0.98
7/09	11.6	0	0.00	0.17	1.00	0.0		0.00	0.41	0.98
7/10			0.00	0.17	1.00	24.1	1	0.21	0.40	1.00
7/11	24.4	0	0.00	0.16	1.00					
7/12	23.9	0	0.00	0.15	1.00					
7/13	23.9	0	0.00	0.14	1.00					
7/14	23.9	0	0.00	0.13	1.00					
7/15	24.1	0	0.00	0.13	1.00					
7/16	10.8	0	0.00	0.12	1.00					
7/17			0.00	0.12	1.00					
7/18	24.1	0	0.00	0.12	1.00					
7/19	24.0	0	0.00	0.11	1.00					
7/20	24.0	0	0.00	0.11	1.00					
7/21	24.2	0	0.00	0.11	1.00					
7/22	24.0	0	0.00	0.10	1.00					
7/23	25.4	0	0.00	0.10	1.00					
7/24										
7/25										
7/26										
Totals	668.3	13.0				558.1	45.0			
	Mean day of catch 6/24					Mean day of catch 6/18				

Appendix Table 1. (p.5 of 6)

	chinook salmon catch, 1990 counts begin the day the first salmon was caught					chinook salmon catch, 1991 counts begin the day the first salmon was caught				
Date	King Hours	Catch	CPUE	CUM CPUE	CP(C)	King Hours	Catch	CPUE	CUM CPUE	CP(C)
6/07										
6/08										
6/09										
6/10						22.0	4	0.91	0.91	0.12
6/11						23.6	2	0.42	0.66	0.18
6/12						24.0	1	0.21	0.50	0.21
6/13						24.0	0	0.00	0.37	0.21
6/14						24.0	1	0.21	0.34	0.24
6/15	24.1	2	0.41	0.41	0.05	23.9	3	0.63	0.39	0.33
6/16	10.1	0	0.00	0.29	0.05	24.0	0	0.00	0.33	0.33
6/17	0.0	0	0.00	0.29	0.05	24.2	2	0.41	0.34	0.39
6/18	23.7	2	0.42	0.35	0.10	23.5	2	0.43	0.35	0.45
6/19	23.8	6	1.26	0.61	0.24	23.8	0	0.00	0.32	0.45
6/20	24.2	26	5.37	1.70	0.88	24.0	0	0.00	0.29	0.45
6/21	23.8	1	0.21	1.43	0.90	24.1	1	0.21	0.28	0.48
6/22	24.2	1	0.21	1.23	0.93	24.1	0	0.00	0.26	0.48
6/23	10.0	0	0.00	1.16	0.93	24.0	1	0.21	0.26	0.52
6/24	0.0	0	0.00	1.16	0.93	23.9	4	0.84	0.29	0.64
6/25	30.0	1	0.17	1.01	0.95	24.0	3	0.63	0.31	0.73
6/26	21.8	1	0.23	0.93	0.98	24.0	1	0.21	0.31	0.76
6/27	23.8	0	0.00	0.84	0.98	24.1	0	0.00	0.29	0.76
6/28	23.5	0	0.00	0.76	0.98	24.0	1	0.21	0.29	0.79
6/29	24.2	0	0.00	0.70	0.98	9.1	2	1.10	0.30	0.85
6/30	9.3	0	0.00	0.67	0.98	0.0		0.00	0.30	0.85
7/01	0.0	0	0.00	0.67	0.98	23.6	3	0.64	0.32	0.94
7/02	22.9	0	0.00	0.63	0.98	24.0	1	0.21	0.31	0.97
7/03	24.3	0	0.00	0.58	0.98	24.0	0	0.00	0.30	0.97
7/04	24.0	0	0.00	0.54	0.98	24.0	0	0.00	0.29	0.97
7/05	23.8	0	0.00	0.51	0.98	24.0	0	0.00	0.27	0.97
7/06	23.8	0	0.00	0.48	0.98	8.7	0	0.00	0.27	0.97
7/07	9.9	1	0.51	0.48	1.00	0.0	0	0.00	0.27	0.97
7/08						24.0	0	0.00	0.26	0.97
7/09						24.0	0	0.00	0.25	0.97
7/10						24.0	1	0.21	0.25	1.00
7/11										
7/12										
7/13										
7/14										
7/15										
7/16										
7/17										
7/18										
7/19										
7/20										
7/21										
7/22										
7/23										
7/24										
7/25										
7/26										
Totals	425.2	41.0				662.6	33.0			
	Mean day of catch 6/20					Mean day of catch 6/23				

Appendix Table 1. (p.6 of 6).

	chinook salmon catch, 1992 counts begin the day the first salmon was caught					chinook salmon catch, 1993 counts begin the day the first salmon was caught				
Date	King Hours	Catch	CPUE	CUM CPUE	CP(C)	King Hours	Catch	CPUE	CUM CPUE	CP(C)
6/07										
6/08						23.7	1	0.21	0.21	0.01
6/09						24.0	1	0.21	0.21	0.02
6/10						24.0	4	0.83	0.42	0.07
6/11						24.0	3	0.63	0.47	0.10
6/12						24.0	4	0.83	0.54	0.14
6/13						24.0	3	0.63	0.56	0.18
6/14						24.0	2	0.42	0.54	0.20
6/15						24.0	1	0.21	0.50	0.21
6/16						24.0	6	1.25	0.58	0.27
6/17						24.3	3	0.62	0.58	0.31
6/18						24.0	1	0.21	0.55	0.32
6/19						24.0	1	0.21	0.52	0.33
6/20						23.7	1	0.21	0.50	0.34
6/21						24.0	3	0.63	0.51	0.37
6/22						24.0	1	0.21	0.49	0.38
6/23						24.0	3	0.63	0.50	0.42
6/24						24.0	7	1.46	0.55	0.49
6/25						24.0	1	0.21	0.53	0.51
6/26						25.7	2	0.39	0.52	0.53
6/27	24.0	2	0.42	0.42	0.09	22.6	6	1.33	0.56	0.59
6/28	24.2	1	0.21	0.31	0.13	23.8	4	0.84	0.58	0.64
6/29	23.8	0	0.00	0.21	0.13	24.0	4	0.83	0.59	0.68
6/30	24.0	0	0.00	0.16	0.13	24.0	4	0.83	0.60	0.73
7/01	24.0	1	0.21	0.17	0.17	24.0	4	0.83	0.61	0.77
7/02	24.0	0	0.00	0.14	0.17	24.0	2	0.42	0.60	0.79
7/03	24.7	1	0.20	0.15	0.22	8.5	6	3.53	0.64	0.86
7/04	23.3	0	0.00	0.13	0.22					
7/05	24.2	0	0.00	0.12	0.22	23.7	0	0.00	0.62	0.86
7/06	24.1	0	0.00	0.10	0.22	24.0	3	0.63	0.62	0.89
7/07	23.8	2	0.42	0.13	0.30	24.0	7	1.46	0.65	0.97
7/08	24.0	1	0.21	0.14	0.35	24.0	1	0.21	0.63	0.98
7/09	24.0	0	0.00	0.13	0.35	24.0	1	0.21	0.62	0.99
7/10	25.0	1	0.20	0.13	0.39	9.0	0	0.00	0.61	0.99
7/11	24.0	2	0.42	0.15	0.48					
7/12	23.0	1	0.22	0.16	0.52	24.0	0	0.00	0.59	0.99
7/13	24.0	1	0.21	0.16	0.57	24.0	1	0.21	0.58	1.00
7/14	24.0	0	0.00	0.15	0.57	24.0	0	0.00	0.56	1.00
7/15	24.0	2	0.42	0.16	0.65	24.0	0	0.00	0.55	1.00
7/16	24.0	4	0.83	0.20	0.83	24.0	0	0.00	0.53	1.00
7/17	24.0	0	0.00	0.19	0.83					
7/18	6.8	1	0.74	0.20	0.87					
7/19										
7/20	24.3	2	0.41	0.21	0.96					
7/21	22.7	0	0.00	0.20	0.96					
7/22	24.0	1	0.21	0.20	1.00					
7/23	24.0	0	0.00	0.19	1.00					
7/24	24.4	0	0.00	0.18	1.00					
7/25	6.0	0	0.00	0.18	1.00					
7/26										
Totals	636.3	23.0				857.0	91.0			
	mean day of catch 7/12					Mean day of catch 6/25				

Appendix Table 2. Unalakleet test net catches of coho salmon in 5 7/8 gear, 1981–1993 (p.1 of 7).

	coho salmon catch, 1981 count begins the day the tenth salmon was caught					coho salmon catch, 1982 count begins the day the tenth salmon was caught				
Date	Hours	Catch	CPUE	CUM CPUE	CP(C)	Hours	Catch	CPUE	CUM CPUE	CP(C)
7/10										
7/11										
7/12										
7/13										
7/14										
7/15										
7/16										
7/17										
7/18										
7/19										
7/20										
7/21										
7/22										
7/23										
7/24										
7/25										
7/26										
7/27										
7/28										
7/29										
7/30	24.0	6	1.25	1.25	0.02					
7/31	24.0	6	1.25	1.25	0.04					
8/01	24.0	3	0.63	1.04	0.05	3.0	9	15.00	15.00	0.04
8/02	24.0	0	0.00	0.78	0.05	4.4	3	3.41	8.11	0.05
8/03	24.0	3	0.63	0.75	0.06			0.00	8.11	0.05
8/04	24.0	0	0.00	0.63	0.06	13.2	8	3.03	4.85	0.09
8/05	24.0	0	0.00	0.54	0.06	7.3	6	4.11	4.66	0.11
8/06	24.0	0	0.00	0.47	0.06			0.00	4.66	0.11
8/07	24.0	3	0.63	0.49	0.07			0.00	4.66	0.11
8/08	24.0	0	0.00	0.44	0.07	12.6	9	3.57	4.32	0.15
8/09	24.0	9	1.88	0.57	0.10	12.9	0	0.00	3.28	0.15
8/10	24.0	3	0.63	0.57	0.11			0.00	3.28	0.15
8/11	24.0	0	0.00	0.53	0.11	12.2	8	3.28	3.28	0.18
8/12	24.0	3	0.63	0.54	0.12	12.5	17	6.80	3.84	0.26
8/13	24.0	3	0.63	0.54	0.13			0.00	3.84	0.26
8/14	24.0	5	1.04	0.57	0.14			0.00	3.84	0.26
8/15	24.0	17	3.54	0.75	0.20	12.3	18	7.32	4.31	0.33
8/16	24.0	36	7.50	1.12	0.31	12.2	5	2.05	4.04	0.35
8/17	24.0	27	5.63	1.36	0.40			0.00	4.04	0.35
8/18	24.0	21	4.38	1.51	0.47	12.0	5	2.08	3.84	0.37
8/19	24.0	20	4.17	1.64	0.53	12.2	1	0.41	3.51	0.38
8/20	24.0	10	2.08	1.66	0.56			0.00	3.51	0.38
8/21	24.0	17	3.54	1.74	0.62			0.00	3.51	0.38
8/22	24.0	10	2.08	1.75	0.65	12.2	6	2.46	3.42	0.40
8/23	24.0	13	2.71	1.79	0.69	11.8	2	0.85	3.22	0.41
8/24	24.0	2	0.42	1.74	0.70			0.00	3.22	0.41
8/25	24.0	5	1.04	1.71	0.72	12.1	3	1.24	3.07	0.43
8/26	24.0	13	2.71	1.75	0.76	12.2	0	0.00	2.86	0.43
8/27	24.0	5	1.04	1.72	0.77			0.00	2.86	0.43
8/28	24.0	4	0.83	1.69	0.79			0.00	2.86	0.43
8/29	24.0	1	0.21	1.65	0.79	12.5	11	4.40	2.96	0.47
8/30	24.0	0	0.00	1.60	0.79	11.3	5	2.21	2.92	0.49
8/31	24.0	3	0.63	1.57	0.80			0.00	2.92	0.49
9/01	24.0	2	0.42	1.53	0.81	12.2	6	2.46	2.89	0.52
9/02	24.0	1	0.21	1.49	0.81	11.5	2	0.87	2.79	0.53
9/03	24.0	2	0.42	1.46	0.82			0.00	2.79	0.53
9/04	24.0	3	0.63	1.44	0.83			0.00	2.79	0.53
9/05	24.0	6	1.25	1.44	0.85	11.6	8	3.45	2.82	0.56
9/06	24.0	6	1.25	1.43	0.86	9.8	3	1.53	2.77	0.57
9/07	24.0	3	0.63	1.41	0.87			0.00	2.77	0.57
9/08	24.0	6	1.25	1.41	0.89	11.8	0	0.00	2.64	0.57
9/09	24.0	6	1.25	1.40	0.91			0.00	2.64	0.57
9/10	24.0	9	1.88	1.41	0.94	28.5	13	2.28	2.60	0.63
9/11	24.0	3	0.63	1.40	0.95	23.5	14	2.98	2.63	0.69
9/12	24.0	3	0.63	1.38	0.96	25.6	8	1.56	2.55	0.72
9/13	24.0	6	1.25	1.38	0.98	25.6	5	0.98	2.44	0.74
9/14	24.0	0	0.00	1.35	0.98	21.3	6	1.41	2.38	0.77
9/15	24.0	0	0.00	1.32	0.98	26.7	7	1.31	2.31	0.80
9/16	24.0	3	0.63	1.31	0.99	22.2	5	1.13	2.25	0.82
9/17	24.0	0	0.00	1.28	0.99	24.8	10	2.02	2.24	0.86
9/18	24.0	0	0.00	1.25	0.99	22.1	15	3.39	2.29	0.93
9/19	24.0	0	0.00	1.23	0.99	30.2	4	0.66	2.19	0.94
9/20	24.0	3	0.63	1.22	1.00	19.1	0	0.00	2.11	0.94
9/21						26.2	4	0.76	2.05	0.96
9/22						27.6	6	1.09	2.00	0.99
9/23						20.2	2	0.50	1.95	1.00
9/24						23.8	1	0.21	1.89	1.00
9/25										
9/26										
9/27										
Totals	1272.0	310	64.58			623.2	235	90.80		
		Mean day of catch 8/19					Mean day of catch 9/01			

Appendix Table 2. (p. 2 of 7)

	coho salmon catch, 1983 count begins the day the tenth salmon was caught					coho salmon catch, 1984 count begins the day the tenth salmon was caught				
Date	Hours	Catch	CPUE	CUM CPUE	CP(C)	Hours	Catch	CPUE	CUM CPUE	CP(C)
7/10										
7/11										
7/12										
7/13										
7/14										
7/15										
7/16										
7/17										
7/18										
7/19										
7/20										
7/21										
7/22										
7/23										
7/24										
7/25										
7/26										
7/27										
7/28										
7/29										
7/30									3.25	0.07
7/31								[illegible]	3.30	0.07
8/01							[illegible]	5.58	4.35	0.18
8/02								0.00	4.35	0.18
8/03						4.6	16	17.39	5.43	0.25
8/04								0.00	5.43	0.25
8/05	11.8	1	0.42	0.42	0.01			0.00	5.43	0.25
8/06			0.00	0.42	0.01	24.3	10	2.06	4.40	0.29
8/07	12.8	4	1.56	1.02	0.03			0.00	4.40	0.29
8/08			0.00	1.02	0.03	23.3	11	2.36	3.94	0.33
8/09	25.7	14	2.72	1.89	0.10			0.00	3.94	0.33
8/10	12.5	21	8.40	3.18	0.22	23.9	8	1.67	3.51	0.36
8/11			0.00	3.18	0.22			0.00	3.51	0.36
8/12	1.3	0	0.00	3.12	0.22			0.00	3.51	0.36
8/13			0.00	3.12	0.22	24.0	5	1.04	3.12	0.39
8/14	10.7	12	5.61	3.48	0.28	24.2	4	0.83	2.80	0.40
8/15			0.00	3.48	0.28	23.8	5	1.05	2.59	0.42
8/16	12.2	2	0.82	3.10	0.29			0.00	2.59	0.42
8/17	12.3	6	2.44	3.02	0.33	25.0	6	1.20	2.44	0.45
8/18	11.8	1	0.42	2.75	0.33			0.00	2.44	0.45
8/19			0.00	2.75	0.33			0.00	2.44	0.45
8/20			0.00	2.75	0.33	24.0	11	2.29	2.42	0.49
8/21	11.2	6	2.68	2.74	0.36			0.00	2.42	0.49
8/22			0.00	2.74	0.36	24.7	4	0.81	2.28	0.51
8/23	12.0	2	0.83	2.57	0.38	23.2	6	1.29	2.20	0.53
8/24	11.5	2	0.87	2.43	0.39	24.0	9	1.88	2.17	0.57
8/25			0.00	2.43	0.39			0.00	2.17	0.57
8/26	11.5	5	2.17	2.42	0.41			0.00	2.17	0.57
8/27			0.00	2.42	0.41	23.0	6	1.30	2.12	0.59
8/28	11.9	0	0.00	2.25	0.41	22.8	9	1.97	2.11	0.63
8/29			0.00	2.25	0.41	25.3	11	2.17	2.11	0.68
8/30	11.9	4	1.68	2.21	0.43	24.2	4	0.83	2.04	0.69
8/31	11.7	1	0.43	2.10	0.44	30.7	7	1.14	1.97	0.72
9/01			0.00	2.10	0.44			0.00	1.97	0.72
9/02	12.3	5	2.03	2.10	0.47			0.00	1.97	0.72
9/03			0.00	2.10	0.47	16.7	5	1.50	1.96	0.74
9/04	47.9	15	1.57	2.00	0.55	23.0	6	1.30	1.93	0.77
9/05			0.00	2.00	0.55	24.2	7	1.45	1.90	0.80
9/06	23.8	11	2.31	2.02	0.61	24.2	9	1.86	1.90	0.83
9/07	23.7	5	1.05	1.95	0.64	24.3	10	2.06	1.91	0.87
9/08	23.8	6	1.26	1.90	0.67			0.00	1.91	0.87
9/09	24.2	10	2.07	1.91	0.72			0.00	1.91	0.87
9/10	24.2	3	0.62	1.82	0.74	23.5	5	1.06	1.87	0.89
9/11	24.2	2	0.41	1.74	0.75	33.1	2	0.30	1.79	0.90
9/12	24.1	8	1.66	1.73	0.79	22.0	3	0.68	1.75	0.91
9/13			0.00	1.73	0.79	17.0	3	0.88	1.73	0.93
9/14	22.7	14	3.08	1.80	0.87	23.7	1	0.21	1.68	0.93
9/15	24.2	9	1.86	1.81	0.92			0.00	1.68	0.93
9/16	21.0	3	0.71	1.76	0.93			0.00	1.68	0.93
9/17	23.9	2	0.42	1.70	0.95	24.6	4	0.81	1.65	0.95
9/18	23.0	2	0.43	1.64	0.96	24.4	4	0.82	1.62	0.96
9/19			0.00	1.64	0.96			0.00	1.62	0.96
9/20	48.9	4	0.41	1.54	0.98	23.8	7	1.47	1.61	0.99
9/21	24.0	3	0.63	1.50	0.99	8.6	0	0.00	1.59	0.99
9/22	24.2	0	0.00	1.45	0.99			0.00	1.59	0.99
9/23	23.4	1	0.21	1.40	1.00			0.00	1.59	0.99
9/24						23.6	2	0.42	1.56	1.00
9/25										
9/26										
9/27										
	656.3	184	51.81			782.3	244	68.7		
		Mean day of catch 9/04					Mean day of catch 8/22			

Appendix Table 2. (p. 3 of 7)

	coho salmon catch, 1985 count begins the day the tenth salmon was caught					coho salmon catch, 1986 count begins the day the tenth salmon was caught				
Date	Hours	Catch	CPUE	CUM CPUE	CP(C)	Hours	Catch	CPUE	CUM CPUE	CP(C)
7/10										
7/11										
7/12										
7/13										
7/14										
7/15										
7/16										
7/17										
7/18										
7/19										
7/20										
7/21										
7/22										
7/23										
7/24										
7/25										
7/26										
7/27										
7/28						24.2	2	0.41	0.41	0.01
7/29						24.2	1	0.21	0.31	0.02
7/30						23.9	2	0.42	0.35	0.04
7/31						24.5	7	1.43	0.62	0.09
8/01								0.00	0.62	0.09
8/02								0.00	0.62	0.09
8/03	10.7	2	0.93	0.93	0.01			0.00	0.62	0.09
8/04			0.00	0.93	0.01			0.00	0.62	0.09
8/05	23.8	3	0.63	0.72	0.03	24.2	23	4.75	1.45	0.26
8/06	24.3	2	0.41	0.60	0.04	24.2	15	3.10	1.72	0.37
8/07	24.0	4	0.83	0.66	0.06	23.7	8	1.69	1.72	0.43
8/08	24.0	3	0.63	0.66	0.08	24.4	1	0.20	1.53	0.44
8/09	24.0	2	0.42	0.61	0.09	11.9	3	1.26	1.51	0.46
8/10	11.0	0	0.00	0.56	0.09			0.00	1.51	0.46
8/11			0.00	0.56	0.09	24.0	4	0.83	1.44	0.49
8/12	24.2	2	0.41	0.54	0.10	24.2	2	0.41	1.34	0.51
8/13	24.0	1	0.21	0.50	0.11	24.0	5	1.04	1.32	0.54
8/14	29.2	10	1.71	0.66	0.17	24.1	2	0.41	1.24	0.56
8/15	19.5	7	1.79	0.75	0.21	24.1	0	0.00	1.15	0.56
8/16	23.5	6	1.28	0.80	0.24	12.0	0	0.00	1.11	0.56
8/17	11.6	6	2.59	0.88	0.27			0.00	1.11	0.56
8/18			0.00	0.88	0.27	23.9	5	1.05	1.11	0.60
8/19	24.1	26	5.39	1.24	0.42	24.1	0	0.00	1.04	0.60
8/20	23.8	5	1.05	1.23	0.45	24.0	1	0.21	0.99	0.60
8/21	24.8	14	2.82	1.34	0.53	24.0	4	0.83	0.98	0.63
8/22	23.8	6	1.26	1.34	0.57	23.9	1	0.21	0.94	0.64
8/23	23.7	8	1.69	1.36	0.61	11.8	1	0.42	0.93	0.65
8/24	9.1	2	1.10	1.35	0.62			0.00	0.93	0.65
8/25			0.00	1.35	0.62	23.9	1	0.21	0.89	0.66
8/26	23.0	12	2.61	1.42	0.69	24.0	3	0.63	0.88	0.68
8/27	24.2	4	0.83	1.39	0.71	24.0	2	0.42	0.86	0.69
8/28	24.2	8	1.65	1.40	0.76			0.00	0.86	0.69
8/29	23.7	5	1.05	1.38	0.79	48.0	7	0.73	0.85	0.75
8/30	24.2	2	0.41	1.34	0.80	11.8	0	0.00	0.83	0.75
8/31	23.5	0	0.00	1.28	0.80			0.00	0.83	0.75
9/01			0.00	1.28	0.80			0.00	0.83	0.75
9/02			0.00	1.28	0.80	24.0	4	0.83	0.83	0.78
9/03	24.4	3	0.61	1.25	0.82	24.1	9	1.87	0.87	0.84
9/04	23.6	2	0.42	1.22	0.83	23.9	6	1.26	0.88	0.89
9/05	24.0	3	0.63	1.20	0.85	23.9	4	0.84	0.88	0.92
9/06	24.1	6	1.24	1.20	0.88	24.1	1	0.21	0.86	0.93
9/07	11.8	5	2.12	1.22	0.91			0.00	0.86	0.93
9/08			0.00	1.22	0.91			0.00	0.86	0.93
9/09	5.8	2	1.72	1.22	0.92	72.3	6	0.41	0.82	0.97
9/10			0.00	1.22	0.92	23.9	4	0.84	0.82	1.00
9/11			0.00	1.22	0.92					
9/12			0.00	1.22	0.92					
9/13	26.2	7	1.34	1.22	0.96					
9/14			0.00	1.22	0.96					
9/15			0.00	1.22	0.96					
9/16			0.00	1.22	0.96					
9/17			0.00	1.22	0.96					
9/18			0.00	1.22	0.96					
9/19	24.0	0	0.00	1.18	0.96					
9/20	24.2	4	0.83	1.17	0.98					
9/21	24.1	3	0.62	1.15	1.00					
9/22										
9/23										
9/24										
9/25										
9/26										
9/27										
	758.1	175	41.2			817.2	134	27.1		
		Mean day of catch 8/21					Mean day of catch 8/14			

Appendix Table 2. (p. 4 of 7)

	coho salmon catch, 1987 count begins the day the tenth salmon was caught					coho salmon catch, 1988 count begins the day the tenth salmon was caught				
Date	Hours	Catch	CPUE	CUM CPUE	CP(C)	Hours	Catch	CPUE	CUM CPUE	CP(C)
7/10										
7/11										
7/12										
7/13										
7/14										
7/15										
7/16										
7/17										
7/18										
7/19										
7/20										
7/21										
7/22										
7/23										
7/24										
7/25										
7/26										
7/27							1	0.00	0.00	0.01
7/28							3	0.00	0.00	0.02
7/29							2	0.00	0.00	0.03
7/30		1	0.00	0.00	0.01		0	0.00	0.00	0.03
7/31		0	0.00	0.00	0.01			0.00	0.00	0.03
8/01			0.00	0.00	0.01		3	0.00	0.00	0.05
8/02		0	0.00	0.00	0.01	24.0	5	1.04	2.92	0.08
8/03		2	0.00	0.00	0.02	24.1	5	1.04	1.98	0.11
8/04		1	0.00	0.00	0.03	23.9	8	1.67	1.88	0.15
8/05		1	0.00	0.00	0.04	24.2	1	0.21	1.46	0.16
8/06	24.3	8	1.65	1.65	0.10	10.2	2	0.98	1.41	0.17
8/07	24.1	0	0.00	0.83	0.10			0.00	1.41	0.17
8/08	10.4	0	0.00	0.68	0.10	23.9	22	4.60	2.00	0.29
8/09			0.00	0.68	0.10	24.1	16	3.32	2.20	0.38
8/10	24.2	7	1.45	0.90	0.15			0.00	2.20	0.38
8/11	23.8	1	0.21	0.75	0.16	47.9	16	1.67	2.08	0.47
8/12	23.9	1	0.21	0.65	0.17	23.9	7	1.46	2.01	0.51
8/13	24.3	2	0.41	0.61	0.18	9.1	3	1.65	2.00	0.53
8/14	23.9	5	1.05	0.67	0.22			0.00	2.00	0.53
8/15	23.8	4	0.84	0.69	0.25	16.1	4	1.24	1.95	0.55
8/16	24.8	2	0.40	0.66	0.26	23.9	0	0.00	1.78	0.55
8/17	24.2	2	0.41	0.64	0.28	23.9	4	0.84	1.70	0.57
8/18	23.8	1	0.21	0.60	0.29	23.9	2	0.42	1.61	0.58
8/19	24.0	6	1.25	0.65	0.33			0.00	1.61	0.58
8/20	24.2	7	1.45	0.71	0.38	33.9	1	0.15	1.47	0.59
8/21	24.0	7	1.46	0.76	0.44			0.00	1.47	0.59
8/22	24.0	5	1.04	0.78	0.47	24.0	0	0.00	1.38	0.59
8/23	23.9	2	0.42	0.76	0.49	24.0	2	0.42	1.32	0.60
8/24	23.9	2	0.42	0.74	0.50	24.5	11	2.24	1.37	0.66
8/25	24.2	3	0.62	0.73	0.53	23.7	5	1.05	1.36	0.69
8/26	24.1	4	0.83	0.74	0.56	23.7	4	0.84	1.33	0.71
8/27	24.0	2	0.42	0.72	0.57	9.8	3	1.53	1.34	0.73
8/28	23.9	1	0.21	0.70	0.58			0.00	1.34	0.73
8/29	10.8	0	0.00	0.68	0.58	24.0	3	0.63	1.30	0.75
8/30			0.00	0.68	0.58	24.0	2	0.42	1.26	0.76
8/31	13.1	8	3.05	0.74	0.64	24.1	3	0.62	1.23	0.78
9/01	24.2	7	1.45	0.77	0.69	24.1	5	1.04	1.23	0.80
9/02	23.9	3	0.63	0.77	0.71	23.9	5	1.05	1.22	0.83
9/03	23.9	3	0.63	0.76	0.74	10.2	0	0.00	1.20	0.83
9/04	24.1	6	1.24	0.78	0.78			0.00	1.20	0.83
9/05	24.8	4	0.81	0.78	0.81	23.9	3	0.63	1.18	0.85
9/06	23.5	10	2.13	0.83	0.89	23.0	1	0.22	1.14	0.85
9/07			0.00	0.83	0.89	25.0	1	0.20	1.11	0.86
9/08	47.8	15	1.57	0.87	1.00	24.2	9	1.86	1.14	0.91
9/09						24.2	5	1.03	1.13	0.94
9/10						24.0	1	0.21	1.10	0.94
9/11								0.00	1.10	0.94
9/12						48.0	10	1.04	1.10	1.00
9/13										
9/14										
9/15										
9/16										
9/17										
9/18										
9/19										
9/20										
9/21										
9/22										
9/23										
9/24										
9/25										
9/26										
9/27										
	731.8	133	26.4			809.3	178	35.3		
		Mean day of catch 8/24					Mean day of catch 8/12			

Appendix Table 2. (p. 5 of 7)

	coho salmon catch, 1989 count begins the day the tenth salmon was caught					coho salmon catch, 1990 count begins the day the tenth salmon was caught				
Date	Hours	Catch	CPUE	CUM CPUE	CP(C)	Hours	Catch	CPUE	CUM CPUE	CP(C)
7/10										
7/11										
7/12										
7/13		1								
7/14										
7/15										
7/16										
7/17										
7/18		1								
7/19										
7/20										
7/21		1								
7/22										
7/23										
7/24										
7/25										
7/26		2								
7/27	24.5	5	1.02	1.02	0.03					
7/28	23.7	1	0.21	0.62	0.03					
7/29	10.2	2	0.98	0.68	0.04					
7/30	0.0	0	0.00	0.68	0.04	24.3	4	0.82		
7/31	24.3	2	0.41	0.60	0.06	24.0	0	0.00		
8/01	23.8	4	0.84	0.66	0.08	23.7	0	0.00		
8/02	24.5	5	1.02	0.73	0.10	23.9	5	1.05		
8/03	23.8	3	0.63	0.71	0.12	25.3	6	1.19	1.19	0.06
8/04	24.0	5	1.04	0.76	0.15	7.5	0	0.00	0.91	0.06
8/05	10.2	5	2.45	0.85	0.18	0.0	0	0.00	0.91	0.06
8/06	0.0	0	0.00	0.85	0.18	23.2	10	2.16	1.43	0.10
8/07	24.3	1	0.21	0.77	0.18	24.0	1	0.21	1.06	0.10
8/08	23.9	4	0.84	0.78	0.20	24.0	8	1.67	1.20	0.13
8/09	24.2	6	1.24	0.82	0.24	23.8	8	1.68	1.29	0.16
8/10	23.8	6	1.26	0.86	0.27	23.8	3	0.63	1.19	0.17
8/11	0.0	0	0.00	0.86	0.27	11.0	1	0.45	1.14	0.17
8/12	33.8	3	0.44	0.82	0.29	0.0	0	0.00	1.14	0.17
8/13	0.0	0	0.00	0.82	0.29	22.0	13	2.95	1.35	0.22
8/14	24.0	21	4.38	1.06	0.40	24.0	17	3.54	1.61	0.29
8/15	24.2	14	2.89	1.18	0.48	24.0	12	2.50	1.70	0.33
8/16	24.2	10	2.07	1.24	0.54	24.0	23	4.79	1.99	0.42
8/17	23.6	7	1.48	1.25	0.57	24.2	12	2.48	2.03	0.47
8/18	0.0	0	0.00	1.25	0.57	9.4	5	2.66	2.05	0.49
8/19	32.8	10	1.52	1.27	0.63	0.0	0	0.00	2.05	0.49
8/20	0.0		0.00	1.27	0.63	23.5	10	2.13	2.06	0.52
8/21	24.0	2	0.42	1.23	0.64	24.2	17	3.51	2.16	0.59
8/22	24.0	4	0.83	1.21	0.66	24.6	15	3.05	2.22	0.65
8/23	23.5	5	1.06	1.20	0.69	23.2	20	4.31	2.35	0.72
8/24	0.0		0.00	1.20	0.69	24.2	8	1.65	2.31	0.75
8/25	34.5	5	0.72	1.17	0.72	8.5	2	1.18	2.28	0.76
8/26	25.0	4	0.80	1.16	0.74	0.0	0	0.00	2.28	0.76
8/27	0.0		0.00	1.16	0.74	16.9	18	5.33	2.40	0.83
8/28	24.0	8	1.67	1.18	0.78	24.0	11	2.29	2.39	0.87
8/29	25.8	9	1.74	1.20	0.83	24.0	11	2.29	2.39	0.91
8/30	22.8	4	0.88	1.19	0.86	24.1	5	1.04	2.33	0.93
8/31	23.7	4	0.84	1.18	0.88	24.0	2	0.42	2.24	0.94
9/01	23.8	6	1.26	1.18	0.91	9.0	0	0.00	2.20	0.94
9/02	11.8	1	0.42	1.17	0.92	0.0	0	0.00	2.20	0.94
9/03	0.0		0.00	1.17	0.92	23.7	1	0.21	2.12	0.94
9/04	23.3	2	0.43	1.14	0.93	23.2	3	0.65	2.06	0.95
9/05	24.0	2	0.42	1.12	0.94	33.0	6	0.91	2.00	0.98
9/06			0.00	1.12	0.94	0.0	0	0.00	2.00	0.98
9/07	48.3	3	0.31	1.07	0.96	0.0	0	0.00	2.00	0.98
9/08	23.7	2	0.42	1.05	0.97	0.0	0	0.00	2.00	0.98
9/09	24.0	2	0.42	1.04	0.98	0.0	0	0.00	2.00	0.98
9/10	24.0	2	0.42	1.02	0.99	14.1	3	1.06	1.98	0.99
9/11	23.8	0	0.00	0.99	0.99	23.5	2	0.43	1.92	1.00
9/12	24.0	2	0.42	0.98	1.00	24.0	1	0.21	1.86	1.00
9/13										
9/14										
9/15										
9/16										
9/17										
9/18										
9/19										
9/20										
9/21										
9/22										
9/23										
9/24										
9/25										
9/26										
9/27										
	925.8	186	38.4			777.8	263	59.4		
	Mean day of catch 8/16					Mean day of catch 8/19				

Appendix Table 2. (p.6 of 7).

	coho salmon catch, 1991 count begins the day the tenth salmon was caught					coho salmon catch, 1992 count begins the day the tenth salmon was caught				
Date	Hours	Catch	CPUE	CUM CPUE	CP(C)	Hours	Catch	CPUE	CUM CPUE	CP(C)
7/10										
7/11										
7/12										
7/13										
7/14										
7/15										
7/16										
7/17										
7/18										
7/19										
7/20							1			
7/21							3			
7/22										
7/23		2					2			
7/24		0								
7/25		0								
7/26		0								
7/27		0				23.8	5	1.05	1.05	0.01
7/28		0				23.9	2	0.42	0.73	0.02
7/29		3				24.0	2	0.42	0.63	0.02
7/30		1				24.0	1	0.21	0.52	0.02
7/31		2				24.0	1	0.21	0.46	0.03
8/01		1				6.2	2	1.61	0.52	0.03
8/02		0								
8/03	8.1	1	0.62	0.62	0.01	23.8	1	0.21	0.47	0.03
8/04	0.0		0.00	0.62	0.01	23.9	2	0.42	0.46	0.04
8/05	23.7	1	0.21	0.31	0.01	24.0	4	0.83	0.51	0.05
8/06	24.0	3	0.63	0.45	0.03	24.0	14	2.92	0.77	0.08
8/07	24.0	3	0.63	0.50	0.05	24.0	11	2.29	0.92	0.11
8/08	24.2	12	2.48	0.96	0.13	6.8	0	0.00	0.89	0.11
8/09	23.8	3	0.63	0.90	0.15					
8/10	9.1	1	0.55	0.88	0.16	23.6	12	2.54	1.03	0.14
8/11	0.0		0.00	0.88	0.16	24.0	135	28.13	3.20	0.46
8/12	23.9	7	1.46	0.96	0.20	7.8	45	28.85	3.85	0.56
8/13	24.0	1	0.21	0.87	0.21	15.6	27	8.65	4.08	0.63
8/14	24.0	1	0.21	0.79	0.22	23.9	12	2.51	3.97	0.66
8/15	24.0	3	0.63	0.77	0.24	6.8	3	2.21	3.94	0.66
8/16	24.0	0	0.00	0.70	0.24					
8/17	9.0	0	0.00	0.68	0.24	23.8	29	6.09	4.08	0.73
8/18	0.0		0.00	0.68	0.24	24.3	8	1.65	3.93	0.75
8/19	23.8	5	1.05	0.71	0.27	23.8	14	2.94	3.87	0.78
8/20	24.0	2	0.42	0.69	0.28	24.0	9	1.88	3.77	0.81
8/21	24.0	10	2.08	0.78	0.35	24.0	9	1.88	3.67	0.83
8/22	24.0	8	1.67	0.84	0.40	7.5	1	0.67	3.62	0.83
8/23	24.0	5	1.04	0.86	0.43					
8/24	8.5	1	0.59	0.85	0.44	24.1	6	1.24	3.51	0.84
8/25	0.0		0.00	0.85	0.44	24.0	4	0.83	3.39	0.85
8/26	23.5	9	1.91	0.91	0.50	24.0	5	1.04	3.29	0.86
8/27	24.0	4	0.83	0.91	0.53	24.0	11	2.29	3.25	0.89
8/28	24.3	1	0.21	0.87	0.53	24.0	5	1.04	3.16	0.90
8/29	25.6	1	0.20	0.83	0.54	7.2	2	1.39	3.14	0.91
8/30	22.5	4	0.89	0.84	0.57					
8/31	8.4	0	0.00	0.82	0.57	23.5	6	1.28	3.07	0.92
9/01	0.0		0.00	0.82	0.57	23.7	7	1.48	3.01	0.94
9/02	23.4	11	2.35	0.89	0.64	24.0	4	0.83	2.93	0.95
9/03	24.0	10	2.08	0.94	0.70	24.0	2	0.42	2.85	0.95
9/04	24.2	13	2.69	1.01	0.79	24.1	8	1.66	2.81	0.97
9/05	24.0	5	1.04	1.01	0.82	7.0	1	0.71	2.79	0.97
9/06	23.9	8	1.67	1.04	0.88					
9/07	8.3	6	3.61	1.07	0.91	23.6	5	1.06	2.73	0.99
9/08	0.0		0.00	1.07	0.91	24.2	6	1.24	2.69	1.00
9/09	24.2	8	1.65	1.09	0.97					
9/10	23.7	5	1.05	1.09	1.00					
Totals	698	152	35.29			783	421	115.08		
	Mean day of catch 8/26					Mean day of catch 8/12				

Appendix Table 2. (p.7 of 7).

coho salmon catch, 1993
count begins the day the
tenth salmon was caught

Date	Hours	Catch	CPUE	CUM CPUE	CP(C)
7/10					
7/11					
7/12					
7/13					
7/14					
7/15					
7/16					
7/17					
7/18					
7/19					
7/20					
7/21					
7/22					
7/23					
7/24					
7/25					
7/26		1			
7/27					
7/28		1			
7/29		2			
7/30		1			
7/31					
8/01					
8/02		2			
8/03					
8/04					
8/05					
8/06	24.0	3	0.63	0.63	0.02
8/07	8.5	1	0.59	0.62	0.03
8/08			0.00	0.62	0.03
8/09	24.0	2	0.42	0.53	0.04
8/10	24.0	1	0.21	0.43	0.05
8/11	24.0	1	0.21	0.38	0.06
8/12	24.0	0	0.00	0.31	0.06
8/13	24.0	3	0.63	0.36	0.08
8/14	8.5	0	0.00	0.34	0.08
8/15			0.00	0.34	0.08
8/16	23.5	5	1.06	0.43	0.12
8/17	24.0	7	1.46	0.55	0.17
8/18	24.0	16	3.33	0.84	0.28
8/19	24.0	6	1.25	0.88	0.33
8/20	24.5	11	2.24	1.00	0.41
8/21	8.0	1	0.63	0.99	0.41
8/22			0.00	0.99	0.41
8/23	23.7	7	1.48	1.02	0.46
8/24	24.0	5	1.04	1.02	0.50
8/25	24.0	11	2.29	1.11	0.58
8/26	24.0	7	1.46	1.13	0.63
8/27	24.0	9	1.88	1.17	0.70
8/28	7.5	3	2.00	1.19	0.72
8/29			0.00	1.19	0.72
8/30	23.8	2	0.42	1.15	0.73
8/31	24.0	6	1.25	1.15	0.78
9/01	24.0	4	0.83	1.14	0.80
9/02	24.0	5	1.04	1.13	0.84
9/03	24.0	5	1.04	1.13	0.88
9/04	9.0	2	1.11	1.13	0.89
9/05			0.00	1.13	0.89
9/06	23.7	9	1.90	1.16	0.96
9/07	24.0	1	0.21	1.12	0.96
9/08	24.0	5	1.04	1.12	1.00
9/09					
9/10					
Totals	617	138	31.64		
		Mean day of catch 8/24			

Appendix Table 3. Unalakleet test net catches of pink salmon in 5 7/8" gear, 1981–1993. (p.1 of 7)

	pink salmon catch, 1981 counts begin the day the first salmon was caught					pink salmon catch, 1982 counts begin the day the first salmon was caught				
Date	Hours	Catch	CPUE	CUM CPUE	CP(C)	Hours	Catch	CPUE	CUM CPUE	CP(C)
6/14										
6/15										
6/16										
6/17						24.0	13	2.71	2.71	0.02
6/18								0.00	2.71	0.02
6/19								0.00	2.71	0.02
6/20						12.0	11	4.58	3.33	0.03
6/21								0.00	3.33	0.03
6/22						12.0	10	4.17	3.54	0.04
6/23						12.0	13	5.42	3.92	0.06
6/24								0.00	3.92	0.06
6/25						11.9	36	15.13	5.77	0.10
6/26								0.00	5.77	0.10
6/27						12.1	37	15.29	7.14	0.14
6/28								0.00	7.14	0.14
6/29						12.2	24	9.84	7.48	0.17
6/30						13.5	23	8.52	7.61	0.20
7/01								0.00	7.61	0.20
7/02						12.0	87	36.25	10.44	0.30
7/03								0.00	10.44	0.30
7/04						13.5	61	22.59	11.65	0.37
7/05								0.00	11.65	0.37
7/06						12.0	64	26.67	12.87	0.45
7/07						5.5	63	57.27	14.47	0.52
7/08								0.00	14.47	0.52
7/09						9.0	12	6.67	14.04	0.53
7/10								0.00	14.04	0.53
7/11						6.5	12	9.23	13.85	0.55
7/12								0.00	13.85	0.55
7/13						12.2	49	20.08	14.27	0.61
7/14						9.0	40	22.22	14.65	0.65
7/15								0.00	14.65	0.65
7/16						11.8	64	27.12	15.38	0.73
7/17	24.0	20	4.17	4.17	0.06			0.00	15.38	0.73
7/18	24.0	20	4.17	4.17	0.11	12.0	80	33.33	16.39	0.82
7/19	24.0	23	4.79	4.38	0.18	12.0	53	22.08	16.70	0.88
7/20	24.0	15	3.13	4.06	0.22			0.00	16.70	0.88
7/21	24.0	51	10.63	5.38	0.36	11.8	49	20.76	16.90	0.94
7/22	24.0	55	11.46	6.39	0.51	24.5	37	7.55	16.02	0.98
7/23	24.0	28	5.83	6.31	0.59			0.00	16.02	0.98
7/24	24.0	17	3.54	5.96	0.64			0.00	16.02	0.98
7/25	24.0	22	4.58	5.81	0.70	12.6	8	3.17	15.43	0.99
7/26	24.0	14	2.92	5.52	0.74	2.5	1	2.00	15.31	1.00
7/27	24.0	12	2.50	5.25	0.77			0.00	15.31	1.00
7/28	24.0	5	1.04	4.90	0.78			0.00	15.31	1.00
7/29	24.0	9	1.88	4.66	0.81	4.6	2	2.17	15.10	1.00
7/30	24.0	8	1.67	4.45	0.83			0.00	15.10	1.00
7/31	24.0	10	2.08	4.29	0.86			0.00	15.10	1.00
8/01	24.0	4	0.83	4.08	0.87			0.00	15.10	1.00
8/02	24.0	4	0.83	3.88	0.88	4.4	0	0.00	14.86	1.00
8/03	24.0	6	1.25	3.74	0.90			0.00	14.86	1.00
8/04	24.0	4	0.83	3.59	0.91	13.2	1	0.38	14.22	1.00
8/05	24.0	2	0.42	3.43	0.91	7.3	0	0.00	13.88	1.00
8/06	24.0	10	2.08	3.36	0.94			0.00	13.88	1.00
8/07	24.0	12	2.50	3.32	0.96			0.00	13.88	1.00
8/08	24.0	1	0.21	3.19	0.98	12.6	0	0.00	13.34	1.00
8/09	24.0	1	0.21	3.06	0.98	12.9	0	0.00	12.82	1.00
8/10	24.0	2	0.42	2.96	0.99			0.00	12.82	1.00
8/11	24.0	2	0.42	2.86	0.99	12.2	0	0.00	12.36	1.00
8/12	24.0	3	0.63	2.78	1.00	12.5	0	0.00	11.93	1.00
8/13	24.0	0	0.00	2.68	1.00			0.00	11.93	1.00
8/14	24.0	0	0.00	2.59	1.00			0.00	11.93	1.00
8/15						12.3	1	0.41	11.54	1.00
8/16										
8/17										
8/18										
8/19										
8/20										
8/21										
8/22										
8/23										
8/24										
8/25										
8/26										
8/27										
8/28										
8/29										
8/30										
8/31										
9/1										
9/2										
9/3										
Totals	696.0	360	75.00			368.6	851	385.6		
	Mean day of catch 7/14					Mean day of catch 7/07				

Appendix Table 3. (p. 2 of 7)

	pink salmon catch, 1983 counts begin the day the first salmon was caught					pink salmon catch, 1984 counts begin the day the first salmon was caught				
Date	Hours	Catch	CPUE	CUM CPUE	CP(C)	Hours	Catch	CPUE	CUM CPUE	CP(C)
6/14										
6/15										
6/16										
6/17										
6/18										
6/19										
6/20										
6/21										
6/22						24.1	11	2.28	2.28	0.02
6/23								0.00	2.28	0.02
6/24								0.00	2.28	0.02
6/25						24.2	12	2.48	2.38	0.04
6/26								0.00	2.38	0.04
6/27						24.5	29	5.92	3.57	0.08
6/28								0.00	3.57	0.08
6/29	11.5	8	3.48	3.48	0.05	24.4	29	5.94	4.17	0.12
6/30			0.00	3.48	0.05			0.00	4.17	0.12
7/01	11.9	19	7.98	5.77	0.16			0.00	4.17	0.12
7/02			0.00	5.77	0.16	23.8	41	8.61	5.04	0.19
7/03	11.9	6	2.52	4.67	0.20			0.00	5.04	0.19
7/04			0.00	4.67	0.20	24.0	32	6.67	5.31	0.23
7/05	11.9	15	6.30	5.08	0.28			0.00	5.31	0.23
7/06	12.0	2	0.83	4.22	0.30	24.1	45	9.34	5.88	0.30
7/07			0.00	4.22	0.30			0.00	5.88	0.30
7/08	12.1	12	4.96	4.35	0.37			0.00	5.88	0.30
7/09			0.00	4.35	0.37	24.1	61	12.66	6.73	0.40
7/10	11.4	12	5.26	4.47	0.44			0.00	6.73	0.40
7/11			0.00	4.47	0.44	23.9	81	16.95	7.85	0.52
7/12	11.5	19	8.26	4.94	0.55			0.00	7.85	0.52
7/13	11.6	15	6.47	5.10	0.64	24.1	97	20.12	9.08	0.67
7/14			0.00	5.10	0.64			0.00	9.08	0.67
7/15	11.7	13	5.56	5.15	0.72			0.00	9.08	0.67
7/16			0.00	5.15	0.72	24.0	48	10.00	9.16	0.74
7/17	11.8	10	4.24	5.07	0.78			0.00	9.16	0.74
7/18			0.00	5.07	0.78	24.2	37	7.64	9.04	0.80
7/19	11.8	9	3.81	4.96	0.83			0.00	9.04	0.80
7/20	11.5	0	0.00	4.59	0.83	24.0	44	9.17	9.05	0.86
7/21			0.00	4.59	0.83			0.00	9.05	0.86
7/22	12.2	19	7.79	4.82	0.94			0.00	9.05	0.86
7/23			0.00	4.82	0.94	23.5	49	10.43	9.14	0.94
7/24	11.5	2	0.87	4.57	0.95			0.00	9.14	0.94
7/25			0.00	4.57	0.95	23.9	12	2.51	8.70	0.96
7/26	12.0	3	1.25	4.35	0.97	24.0	15	3.13	8.35	0.98
7/27	11.7	2	0.85	4.15	0.98	24.1	9	1.87	7.97	0.99
7/28			0.00	4.15	0.98	11.4	0	0.00	7.76	0.99
7/29	11.7	0	0.00	3.92	0.98			0.00	7.76	0.99
7/30			0.00	3.92	0.98	24.6	1	0.20	7.34	0.99
7/31	11.6	0	0.00	3.72	0.98	2.7	0	0.00	7.29	0.99
8/01			0.00	3.72	0.98	23.3	2	0.43	6.95	1.00
8/02	12.1	0	0.00	3.53	0.98			0.00	6.95	1.00
8/03	12.2	0	0.00	3.35	0.98	4.6	0	0.00	6.89	1.00
8/04			0.00	3.35	0.98			0.00	6.89	1.00
8/05	11.8	1	0.42	3.22	0.99			0.00	6.89	1.00
8/06			0.00	3.22	0.99	24.3	0	0.00	6.55	1.00
8/07	12.8	0	0.00	3.07	0.99			0.00	6.55	1.00
8/08			0.00	3.07	0.99	23.3	0	0.00	6.26	1.00
8/09	25.7	0	0.00	2.80	0.99			0.00	6.26	1.00
8/10	12.5	0	0.00	2.69	0.99	23.9	0	0.00	5.99	1.00
8/11			0.00	2.69	0.99			0.00	5.99	1.00
8/12	1.3	0	0.00	2.68	0.99			0.00	5.99	1.00
8/13			0.00	2.68	0.99	24.0	2	0.42	5.75	1.00
8/14	10.7	1	0.47	2.61	0.99					
8/15			0.00	2.61	0.99					
8/16	12.2	1	0.41	2.53	1.00					
8/17										
8/18										
8/19										
8/20										
8/21										
8/22										
8/23										
8/24										
8/25										
8/26										
8/27										
8/28										
8/29										
8/30										
8/31										
9/1										
9/2										
9/3										
	334.6	169	71.7			571.0	657	136.8		
	Mean day of catch 7/12					Mean day of catch 7/11				

Appendix Table 3. (p. 3 of 7)

	pink salmon catch, 1985 counts begin the day the first salmon was caught					pink salmon catch, 1986 counts begin the day the first salmon was caught				
Date	Hours	Catch	CPUE	CUM CPUE	CP(C)	Hours	Catch	CPUE	CUM CPUE	CP(C)
6/14										
6/15										
6/16							1	0.00	0.00	0.00
6/17							1	0.00	0.00	0.00
6/18							0	0.00	0.00	0.00
6/19							1	0.00	0.00	0.00
6/20							1	0.00	0.00	0.01
6/21						23.9	7	1.46	1.46	0.01
6/22						24.3	13	2.67	2.07	0.03
6/23						23.9	21	4.39	2.84	0.06
6/24						23.7	37	7.81	4.07	0.11
6/25						24.0	51	10.63	5.38	0.18
6/26						25.0	39	7.80	5.80	0.23
6/27						24.0	27	5.63	5.78	0.27
6/28						12.1	8	3.31	5.61	0.28
6/29	24.1	1	0.21	0.21	0.08	0.0	0	0.00	5.61	0.28
6/30	23.7	1	0.21	0.21	0.15	24.0	64	13.33	6.52	0.37
7/01	9.8	0	0.00	0.17	0.15	24.1	75	15.56	7.47	0.48
7/02	7.0	0	0.00	0.15	0.15	23.9	66	13.81	8.07	0.57
7/03	24.0	0	0.00	0.11	0.15	24.1	29	6.02	7.89	0.61
7/04	23.8	0	0.00	0.09	0.15	23.9	28	5.86	7.73	0.65
7/05	23.9	0	0.00	0.07	0.15	12.2	11	4.51	7.60	0.66
7/06	9.2	1	0.54	0.10	0.23	0.0	0	0.00	7.60	0.66
7/07			0.00	0.10	0.23	24.4	2	0.41	7.08	0.66
7/08	23.2	1	0.22	0.12	0.31	24.5	2	0.41	6.63	0.67
7/09	24.1	0	0.00	0.10	0.31	23.8	4	0.84	6.27	0.67
7/10	23.9	0	0.00	0.09	0.31	23.9	3	0.63	5.94	0.68
7/11	24.1	0	0.00	0.08	0.31	24.2	3	0.62	5.65	0.68
7/12	24.4	0	0.00	0.08	0.31	12.4	1	0.40	5.50	0.68
7/13	8.6	0	0.00	0.07	0.31	0.0	0	0.00	5.50	0.68
7/14			0.00	0.07	0.31	24.6	3	0.61	5.25	0.69
7/15	24.3	0	0.00	0.07	0.31	23.0	2	0.43	5.02	0.69
7/16	23.9	0	0.00	0.06	0.31	24.1	3	0.62	4.82	0.69
7/17	24.3	3	0.62	0.10	0.54	24.0	14	2.92	4.73	0.71
7/18	33.8	4	0.59	0.14	0.85	26.4	24	4.55	4.72	0.75
7/19	24.1	0	0.00	0.14	0.85	0.0	0	0.00	4.72	0.75
7/20			0.00	0.14	0.85	0.0	0	0.00	4.72	0.75
7/21			0.00	0.14	0.85	0.0	0	0.00	4.72	0.75
7/22	24.2	1	0.21	0.14	0.92	24.2	13	2.69	4.64	0.76
7/23	24.9	0	0.00	0.13	0.92	26.8	10	1.87	4.52	0.78
7/24	23.1	1	0.22	0.14	1.00	12.9	23	8.91	4.61	0.81
7/25						24.1	41	8.51	4.75	0.87
7/26						12.0	22	9.17	4.83	0.90
7/27						0.0	0	0.00	4.83	0.90
7/28						24.2	7	1.45	4.71	0.91
7/29						24.2	7	1.45	4.60	0.92
7/30						23.9	3	0.63	4.48	0.92
7/31						24.5	10	2.04	4.40	0.94
8/01								0.00	4.40	0.94
8/02								0.00	4.40	0.94
8/03								0.00	4.40	0.94
8/04								0.00	4.40	0.94
8/05						24.2	14	2.89	4.35	0.96
8/06						24.2	6	1.24	4.26	0.96
8/07						23.7	7	1.48	4.18	0.97
8/08						24.4	1	0.20	4.07	0.97
8/09						11.9	2	0.84	4.02	0.98
8/10								0.00	4.02	0.98
8/11						24.0	6	1.25	3.95	0.99
8/12						24.2	2	0.41	3.86	0.99
8/13						24.0	0	0.00	3.76	0.99
8/14						24.1	1	0.21	3.67	0.99
8/15						24.1	3	0.62	3.60	0.99
8/16						12.0	2	0.83	3.56	1.00
8/17								0.00	3.56	1.00
8/18						23.9	0	0.00	3.48	1.00
8/19						24.1	1	0.21	3.41	1.00
8/20						24.0	1	0.21	3.33	1.00
8/21										
8/22										
8/23										
8/24										
8/25										
8/26										
8/27										
8/28										
8/29										
8/30										
8/31										
9/1										
9/2										
9/3										
	476.4	13	2.8			1078.0	723	162.3		
	Mean day of catch 7/17					Mean day of catch 7/02				

Appendix Table 3. (p. 4 of 7)

	pink salmon catch, 1987 counts begin the day the first salmon was caught					pink salmon catch, 1988 counts begin the day the first salmon was caught				
Date	Hours	Catch	CPUE	CUM CPUE	CP(C)	Hours	Catch	CPUE	CUM CPUE	CP(C)
6/14							1	0.00	0.00	0.00
6/15							2	0.00	0.00	0.00
6/16							2	0.00	0.00	0.01
6/17								0.00	0.00	0.01
6/18							1	0.00	0.00	0.01
6/19								0.00	0.00	0.01
6/20						24.3	32	6.58	7.82	0.04
6/21						23.9	20	4.18	6.02	0.06
6/22						24.0	35	7.29	6.44	0.10
6/23						24.2	22	4.55	5.96	0.13
6/24						23.7	10	2.11	5.20	0.14
6/25						9.0	16	8.89	5.46	0.16
6/26								0.00	5.46	0.16
6/27						24.1	54	11.20	6.36	0.22
6/28								0.00	6.36	0.22
6/29						53.0	53	5.00	6.01	0.28
6/30						19.1	38	9.95	6.35	0.32
7/01						24.2	72	14.88	7.17	0.41
7/02						10.3	27	13.11	7.41	0.44
7/03								0.00	7.41	0.44
7/04						24.2	38	7.85	7.45	0.48
7/05						24.0	32	6.67	7.39	0.52
7/06						24.0	23	4.79	7.20	0.55
7/07						24.1	29	6.02	7.12	0.58
7/08	24.1	2	0.41	0.41	0.02	23.9	27	5.65	7.03	0.61
7/09	24.0	1	0.21	0.31	0.03	11.6	22	9.48	7.10	0.64
7/10	24.3	5	1.03	0.55	0.09			0.00	7.10	0.64
7/11	11.2	1	0.45	0.54	0.10	24.4	115	23.57	8.06	0.77
7/12			0.00	0.54	0.10	23.9	52	10.88	8.22	0.83
7/13	23.3	1	0.21	0.47	0.11	23.9	36	7.53	8.18	0.87
7/14	23.9	0	0.00	0.38	0.11	23.9	14	2.93	7.92	0.89
7/15			0.00	0.38	0.11	24.1	9	1.87	7.64	0.90
7/16	48.4	10	1.03	0.56	0.22	10.8	7	3.24	7.55	0.91
7/17	23.8	2	0.42	0.54	0.25			0.00	7.55	0.91
7/18	10.9	0	0.00	0.51	0.25	24.1	14	2.90	7.34	0.92
7/19			0.00	0.51	0.25	24.0	12	2.50	7.14	0.94
7/20	24.2	19	3.93	0.86	0.46	24.0	6	1.25	6.90	0.95
7/21	23.8	22	4.62	1.20	0.71	24.2	8	1.65	6.70	0.95
7/22	24.0	18	3.75	1.42	0.91	24.0	6	1.25	6.49	0.96
7/23	24.3	3	0.62	1.35	0.94	25.4	3	0.59	6.27	0.97
7/24	23.8	4	0.84	1.32	0.99			0.00	6.27	0.97
7/25	10.5	0	0.00	1.28	0.99			0.00	6.27	0.97
7/26			0.00	1.28	0.99			0.00	6.27	0.97
7/27	23.4	0	0.00	1.20	0.99	22.7	8	1.76	6.12	0.97
7/28	24.3	1	0.21	1.13	1.00	24.3	5	1.03	5.95	0.98
7/29						23.6	4	0.85	5.79	0.98
7/30						10.3	1	0.49	5.71	0.99
7/31								0.00	5.71	0.99
8/01						24.0	0	0.00	5.54	0.99
8/02						24.0	1	0.21	5.38	0.99
8/03						24.1	1	0.21	5.22	0.99
8/04						23.9	2	0.42	5.09	0.99
8/05						24.2	1	0.21	4.95	0.99
8/06						10.2	1	0.49	4.90	0.99
8/07								0.00	4.90	0.99
8/08						23.9	2	0.42	4.78	1.00
8/09						24.1	1	0.21	4.66	1.00
8/10								0.00	4.66	1.00
8/11						47.9	2	0.21	4.44	1.00
8/12						23.9	0	0.00	4.34	1.00
8/13						9.1	0	0.00	4.30	1.00
8/14								0.00	4.30	1.00
8/15						16.1	0	0.00	4.23	1.00
8/16						23.9	1	0.21	4.14	1.00
8/17						23.9	0	0.00	4.05	1.00
8/18						23.9	0	0.00	3.96	1.00
8/19								0.00	3.96	1.00
8/20						33.9	0	0.00	3.84	1.00
8/21										
8/22										
8/23										
8/24										
8/25										
8/26										
8/27										
8/28										
8/29										
8/30										
8/31										
9/1										
9/2										
9/3										
	392.2	89	17.7			1130.2	868	195.1		
	Mean day of catch 7/21					Mean day of catch 7/05				

Appendix Table 3. (p. 5 of 7)

	pink salmon catch, 1989 counts begin the day the first salmon was caught					pink salmon catch, 1990 counts begin the day the first salmon was caught				
Date	Hours	Catch	CPUE	CUM CPUE	CP(C)	Hours	Catch	CPUE	CUM CPUE	CP(C)
6/14										
6/15										
6/16										
6/17										
6/18										
6/19										
6/20										
6/21		1				23.8	1			
6/22		2				24.2	0			
6/23		0				10.0	0			
6/24		1				0.0	0			
6/25						30.0	15	2.50	2.50	0.02
6/26		0				21.8	39	8.94	5.21	0.07
6/27		1				23.8	20	4.20	4.89	0.10
6/28		1				23.5	19	4.04	4.69	0.13
6/29	24.0	7	1.46	1.46	0.01	24.2	26	5.37	4.83	0.16
6/30			0.00	1.46	0.01	9.3	11	5.91	4.90	0.18
7/01	34.8	15	2.16	1.87	0.02	0.0	0	0.00	4.90	0.18
7/02	0.0		0.00	1.87	0.02	22.9	13	2.84	4.60	0.19
7/03	24.1	1	0.21	1.39	0.02	24.3	17	3.50	4.45	0.22
7/04	24.0	2	0.42	1.17	0.02	24.0	11	2.29	4.20	0.23
7/05	23.9	3	0.63	1.07	0.02	23.8	10	2.10	3.98	0.24
7/06	24.1	5	1.04	1.07	0.03	23.8	28	5.88	4.16	0.28
7/07	24.0	2	0.42	0.98	0.03	9.9	7	3.54	4.13	0.29
7/08	10.0	0	0.00	0.93	0.03	0.0	0	0.00	4.13	0.29
7/09	0.0		0.00	0.93	0.03	24.1	33	6.85	4.36	0.34
7/10	24.1	12	2.49	1.10	0.04	23.6	35	7.42	4.60	0.38
7/11	23.9	12	2.51	1.25	0.05	24.3	32	6.58	4.74	0.43
7/12	24.0	16	3.33	1.44	0.06	23.9	31	6.49	4.86	0.47
7/13	24.0	16	3.33	1.60	0.07	23.8	44	9.24	5.13	0.53
7/14	24.0	34	7.08	2.02	0.10	9.8	23	11.73	5.30	0.56
7/15	10.2	56	27.45	2.84	0.14	0.0	0	0.00	5.30	0.56
7/16	0.0		0.00	2.84	0.14	23.3	49	10.52	5.59	0.63
7/17	14.0	80	28.57	3.92	0.21	24.0	34	7.08	5.67	0.67
7/18	24.2	117	24.17	5.29	0.30	24.0	50	10.42	5.92	0.74
7/19	24.1	191	39.63	7.46	0.45	23.9	56	11.72	6.20	0.81
7/20	24.1	189	39.21	9.35	0.60	24.4	66	13.52	6.55	0.90
7/21	24.0	144	30.00	10.50	0.72	9.7	33	17.01	6.75	0.95
7/22	10.0	54	27.00	10.88	0.76	0.0	0	0.00	6.75	0.95
7/23	0.0		0.00	10.88	0.76	23.7	10	2.11	6.55	0.96
7/24	28.8	66	11.46	10.91	0.82	23.8	7	1.47	6.33	0.97
7/25	18.3	32	8.74	10.83	0.84	24.3	4	0.82	6.11	0.98
7/26	23.8	55	11.55	10.86	0.89	23.4	3	0.64	5.90	0.98
7/27	24.5	65	13.27	10.97	0.94	24.4	3	0.61	5.70	0.99
7/28	23.7	27	5.70	10.75	0.96	7.9	0	0.00	5.63	0.99
7/29	10.2	15	7.35	10.69	0.97	0.0	0	0.00	5.63	0.99
7/30	0.0	0	0.00	10.69	0.97	24.3	3	0.62	5.45	0.99
7/31	24.3	5	1.03	10.29	0.97	24.0	2	0.42	5.27	0.99
8/01	23.8	8	1.68	9.96	0.98	23.7	2	0.42	5.11	0.99
8/02	24.5	6	1.22	9.63	0.99	23.9	0	0.00	4.95	0.99
8/03	23.8	5	1.05	9.32	0.99	25.3	0	0.00	4.79	0.99
8/04	24.0	0	0.00	9.00	0.99	7.5	0	0.00	4.74	0.99
8/05	10.2	1	0.49	8.87	0.99	0.0	0	0.00	4.74	0.99
8/06	0.0	0	0.00	8.87	0.99	23.2	0	0.00	4.60	0.99
8/07	24.3	3	0.62	8.59	0.99	24.0	3	0.63	4.49	1.00
8/08	23.9	4	0.84	8.35	1.00	24.0	0	0.00	4.36	1.00
8/09	24.2	2	0.41	8.10	1.00	23.8	0	0.00	4.24	1.00
8/10	23.8	2	0.42	7.87	1.00	23.8	1	0.21	4.13	1.00
8/11	0.0	0	0.00	7.87	1.00					
8/12	33.8	0	0.00	7.55	1.00					
8/13	0.0	0	0.00	7.55	1.00					
8/14	24.0	1	0.21	7.34	1.00					
8/15										
8/16										
8/17										
8/18										
8/19										
8/20										
8/21										
8/22										
8/23										
8/24										
8/25										
8/26										
8/27										
8/28										
8/29										
8/30										
8/31										
9/1										
9/2										
9/3										
	853.4	1259	307.1			953.1	741	177.6		
	Mean day of catch 7/20					Mean day of catch 7/14				

Appendix Table 3. (p.6 of 7).

	pink salmon catch, 1991 counts begin the day the first salmon was caught					pink salmon catch, 1992 counts begin the day the first salmon was caught				
Date	Hours	Catch	CPUE	CUM CPUE	CP(C)	Hours	Catch	CPUE	CUM CPUE	CP(C)
6/14										
6/15										
6/16										
6/17										
6/18										
6/19										
6/20										
6/21										
6/22										
6/23						17.7	3	0.85	0.85	0.00
6/24						23.8	5	1.05	0.96	0.00
6/25						24.0	20	4.17	2.14	0.01
6/26						24.0	12	2.50	2.23	0.02
6/27						24.0	21	4.38	2.69	0.03
6/28						24.2	24	4.96	3.09	0.04
6/29						23.8	14	2.94	3.07	0.05
6/30						24.0	27	5.63	3.40	0.06
7/01	23.6	5	1.06	1.06	0.01	24.0	43	8.96	4.03	0.08
7/02	24.0	1	0.21	0.63	0.02	24.0	29	6.04	4.24	0.10
7/03	24.0	7	1.46	0.91	0.04	24.7	86	17.41	5.50	0.14
7/04	24.0	2	0.42	0.78	0.04	23.3	60	12.88	6.11	0.17
7/05	24.0	12	2.50	1.13	0.08	24.0	67	13.96	6.73	0.20
7/06	8.7	3	1.72	1.17	0.09	24.1	39	8.09	6.83	0.22
7/07	0.0	0	0.00	1.17	0.09	23.8	52	10.92	7.10	0.25
7/08	24.0	8	1.67	1.25	0.11	24.0	55	11.46	7.38	0.27
7/09	24.0	17	3.54	1.56	0.16	24.0	92	19.17	8.08	0.32
7/10	24.0	26	5.42	2.02	0.23	25.0	113	22.60	8.94	0.37
7/11	23.9	7	1.46	1.96	0.25	24.0	54	11.25	9.06	0.40
7/12	24.1	4	0.83	1.85	0.27	23.0	115	25.00	9.83	0.46
7/13	8.5	5	2.94	1.89	0.28	24.0	164	34.17	11.01	0.54
7/14	0.0	0	0.00	1.89	0.28	24.0	98	20.42	11.44	0.59
7/15	23.9	3	0.63	1.78	0.29	24.0	112	23.33	11.96	0.64
7/16	24.0	5	1.04	1.72	0.30	24.0	111	23.13	12.43	0.70
7/17	24.2	16	3.31	1.84	0.35	24.0	73	15.21	12.55	0.73
7/18	24.0	22	4.58	2.03	0.41	6.8	20	14.71	12.57	0.74
7/19	24.0	4	0.83	1.95	0.42					
7/20	8.9	0	0.00	1.91	0.42	27.3	127	23.26	13.04	0.80
7/21	0.0		0.00	1.91	0.42	22.7	78	17.18	13.18	0.84
7/22	24.0	17	3.54	2.00	0.47	24.0	62	12.92	13.17	0.87
7/23	24.0	22	4.58	2.14	0.54	24.0	48	10.00	13.06	0.90
7/24	24.0	14	2.92	2.18	0.58	24.4	44	9.02	12.93	0.92
7/25	23.8	4	0.84	2.12	0.59	6.0	16	13.33	12.93	0.92
7/26	24.1	4	0.83	2.06	0.60					
7/27	9.0	4	2.22	2.06	0.61	23.8	30	6.30	12.72	0.94
7/28	0.0		0.00	2.06	0.61	23.9	22	4.60	12.47	0.95
7/29	23.9	16	3.35	2.12	0.66	24.0	18	3.75	12.21	0.96
7/30	24.0	14	2.92	2.15	0.70	24.0	8	1.67	11.90	0.96
7/31	24.0	15	3.13	2.19	0.74	24.0	12	2.50	11.64	0.97
8/01	24.0	15	3.13	2.23	0.79	6.2	3	2.42	11.57	0.97
8/02	24.0	20	4.17	2.30	0.84					
8/03	8.1	14	8.64	2.38	0.88	23.8	2	0.42	11.27	0.97
8/04	0.0		0.00	2.38	0.88	23.9	1	0.21	10.97	0.97
8/05	23.7	10	2.11	2.37	0.91	24.0	1	0.21	10.69	0.97
8/06	24.0	9	1.88	2.35	0.94	24.0	4	0.83	10.45	0.97
8/07	24.0	6	1.25	2.32	0.96	24.0	1	0.21	10.19	0.97
8/08	24.2	2	0.41	2.25	0.96	6.8	1	0.74	10.13	0.98
8/09	23.8	3	0.63	2.20	0.97					
8/10	9.1	3	1.65	2.20	0.98	23.6	6	1.27	9.92	0.98
8/11	0.0		0.00	2.20	0.98	24.0	9	1.88	9.73	0.98
8/12	23.9	1	0.21	2.14	0.98	7.8	6	3.85	9.69	0.99
8/13	24.0	1	0.21	2.08	0.99	15.6	3	0.96	9.56	0.99
8/14	24.0	1	0.21	2.03	0.99	23.9	4	0.84	9.36	0.99
8/15	24.0	1	0.21	1.98	0.99	6.8	1	0.74	9.31	0.99
8/16	24.0	0	0.00	1.92	0.99					
8/17	9.0	1	0.56	1.91	0.99	23.8	7	1.47	9.14	0.99
8/18	0.0		0.00	1.91	0.99	24.3	3	0.62	8.96	0.99
8/19	23.8	0	0.00	1.86	0.99	23.8	2	0.42	8.78	1.00
8/20	24.0	0	0.00	1.81	0.99	24.0	2	0.42	8.61	1.00
8/21	24.0	1	0.21	1.77	1.00	24.0	1	0.21	8.44	1.00
8/22	24.0	1	0.21	1.74	1.00	7.5	0	0.00	8.39	1.00
8/23	24.0	0	0.00	1.70	1.00					
8/24	8.5	0	0.00	1.68	1.00	24.1	2	0.41	8.24	1.00
8/25	0.0		0.00	1.68	1.00	24.0	1	0.21	8.08	1.00
8/26						24.0	1	0.21	7.94	1.00
8/27						24.0	0	0.00	7.79	1.00
8/28						24.0	0	0.00	7.65	1.00
8/29						7.2	0	0.00	7.61	1.00
8/30										
8/31						23.5	1	0.21	7.48	1.00
9/1						23.7	0	0.00	7.35	1.00
9/2						24.0	0	0.00	7.23	1.00
9/3						24.0	1	0.21	7.11	1.00
Totals	996	346	83.61			1433	2037	448.63		
	Mean day of catch 7/23					Mean day of catch 7/13				

Appendix Table 3. (p.7 of 7).

pink salmon catch, 1993
counts begin the day the
first salmon was caught

Date	Hours	Catch	CPUE	CUM CPUE	CP(C)
6/14					
6/15					
6/16					
6/17					
6/18					
6/19					
6/20					
6/21					
6/22					
6/23					
6/24					
6/25	24.0	1	0.21	0.21	0.01
6/26	25.7	0	0.00	0.10	0.01
6/27	22.6	0	0.00	0.07	0.01
6/28	23.8	0	0.00	0.05	0.01
6/29	24.0	0	0.00	0.04	0.01
6/30	24.0	0	0.00	0.03	0.01
7/01	24.0	1	0.21	0.06	0.01
7/02	24.0	1	0.21	0.08	0.02
7/03	8.5	0	0.00	0.07	0.02
7/04					
7/05	23.7	4	0.84	0.16	0.04
7/06	24.0	4	0.83	0.22	0.06
7/07	24.0	5	1.04	0.29	0.08
7/08	24.0	10	2.08	0.44	0.13
7/09	24.0	11	2.29	0.58	0.19
7/10	9.0	1	0.56	0.58	0.20
7/11					
7/12	24.0	27	5.63	0.92	0.34
7/13	24.0	19	3.96	1.11	0.43
7/14	24.0	21	4.38	1.31	0.54
7/15	24.0	14	2.92	1.40	0.61
7/16	24.0	24	5.00	1.59	0.74
7/17	8.5	6	3.53	1.63	0.77
7/18					
7/19	24.0	1	0.21	1.56	0.77
7/20	24.0	0	0.00	1.48	0.77
7/21	24.0	2	0.42	1.43	0.78
7/22	24.0	0	0.00	1.37	0.78
7/23	24.0	1	0.21	1.32	0.79
7/24	8.5	1	0.59	1.31	0.79
7/25					
7/26	23.7	1	0.21	1.27	0.80
7/27	23.8	2	0.42	1.24	0.81
7/28	24.0	2	0.42	1.21	0.82
7/29	24.0	3	0.63	1.19	0.84
7/30	24.0	3	0.63	1.17	0.85
7/31	8.5	2	1.18	1.17	0.86
8/01					
8/02	23.5	3	0.64	1.15	0.88
8/03	24.0	8	1.67	1.17	0.92
8/04	24.0	4	0.83	1.16	0.94
8/05	24.0	0	0.00	1.12	0.94
8/06	24.0	1	0.21	1.10	0.94
8/07	8.5	0	0.00	1.09	0.94
8/08			0.00	1.09	0.94
8/09	24.0	3	0.63	1.07	0.96
8/10	24.0	0	0.00	1.04	0.96
8/11	24.0	1	0.21	1.02	0.96
8/12	24.0	1	0.21	1.00	0.97
8/13	24.0	3	0.63	0.99	0.98
8/14	8.5	0	0.00	0.98	0.98
8/15					
8/16	23.5	1	0.21	0.97	0.99
8/17	24.0	1	0.21	0.95	0.99
8/18	24.0	0	0.00	0.93	0.99
8/19	24.0	1	0.21	0.91	1.00
8/20					
8/21					
8/22					
8/23					
8/24					
8/25					
8/26					
8/27					
8/28					
8/29					
8/30					
8/31					
9/1					
9/2					
9/3					
Totals	1066	194	44.22		
		Mean day of catch 7/14			

Appendix Table 4. Unalakleet test net catches of chum salmon, in 5 7/8" gear, 1981 – 1993. (p. 1 of 7)

	chum salmon catch, 1981 counts begin the day the tenth salmon was caught					chum salmon catch, 1982 counts begin the day the tenth salmon was caught				
Date	Hours	Catch	CPUE	CUM CPUE	CP(C)	Hours	Catch	CPUE	CUM CPUE	CP(C)
6/07										
6/08										
6/09										
6/10										
6/11										
6/12										
6/13										
6/14										
6/15										
6/16										
6/17										
6/18						24.0	9	1.88	1.88	0.03
6/19								0.00	1.88	0.03
6/20						12.0	10	4.17	2.64	0.06
6/21								0.00	2.64	0.06
6/22						12.0	8	3.33	2.81	0.08
6/23						12.0	2	0.83	2.42	0.09
6/24								0.00	2.42	0.09
6/25						11.9	3	1.26	2.23	0.10
6/26								0.00	2.23	0.10
6/27						12.1	23	9.50	3.27	0.17
6/28								0.00	3.27	0.17
6/29						12.2	11	4.51	3.43	0.20
6/30						13.5	13	4.81	3.60	0.24
7/01								0.00	3.60	0.24
7/02						12.0	17	7.08	3.94	0.29
7/03								0.00	3.94	0.29
7/04						13.5	20	7.41	4.29	0.35
7/05								0.00	4.29	0.35
7/06						12.0	4	1.67	4.08	0.36
7/07						5.5	12	10.91	4.32	0.40
7/08								0.00	4.32	0.40
7/09						9.0	9	5.00	4.36	0.43
7/10								0.00	4.36	0.43
7/11						6.5	16	12.31	4.67	0.48
7/12								0.00	4.67	0.48
7/13						12.2	8	3.28	4.57	0.50
7/14						9.0	8	4.44	4.57	0.52
7/15								0.00	4.57	0.52
7/16						11.8	3	1.27	4.37	0.53
7/17	24.0	20	4.17	4.17	0.02			0.00	4.37	0.53
7/18	24.0	48	10.00	7.08	0.06	12.0	8	3.33	4.32	0.56
7/19	24.0	36	7.50	7.22	0.09	12.0	19	7.92	4.51	0.62
7/20	24.0	60	12.50	8.54	0.15			0.00	4.51	0.62
7/21	24.0	48	10.00	8.83	0.19	11.8	8	3.39	4.45	0.64
7/22	24.0	12	2.50	7.78	0.20	24.5	38	7.76	4.76	0.75
7/23	24.0	21	4.38	7.29	0.22			0.00	4.76	0.75
7/24	24.0	36	7.50	7.32	0.25			0.00	4.76	0.75
7/25	24.0	33	6.88	7.27	0.28	12.6	23	9.13	4.96	0.82
7/26	24.0	60	12.50	7.79	0.34	2.5	3	6.00	4.97	0.83
7/27	24.0	63	13.13	8.26	0.40			0.00	4.97	0.83
7/28	24.0	52	10.83	8.49	0.44			0.00	4.97	0.83
7/29	24.0	111	23.13	9.62	0.54	4.6	8	8.70	5.03	0.86
7/30	24.0	66	13.75	9.91	0.60			0.00	5.03	0.86
7/31	24.0	36	7.50	9.75	0.64			0.00	5.03	0.86
8/01	24.0	9	1.88	9.26	0.64	3.0	3	5.00	5.03	0.87
8/02	24.0	0	0.00	8.71	0.64	4.4	1	1.14	4.97	0.87
8/03	24.0	12	2.50	8.37	0.65			0.00	4.97	0.87
8/04	24.0	21	4.38	8.16	0.67	13.2	5	1.89	4.84	0.88
8/05	24.0	33	6.88	8.09	0.70	7.3	5	3.42	4.80	0.90
8/06	24.0	24	5.00	7.95	0.73			0.00	4.80	0.90
8/07	24.0	33	6.88	7.90	0.76			0.00	4.80	0.90
8/08	24.0	33	6.88	7.85	0.79	12.6	6	2.38	4.71	0.92
8/09	24.0	27	5.63	7.76	0.81	12.9	2	0.78	4.56	0.92
8/10	24.0	18	3.75	7.60	0.83			0.00	4.56	0.92
8/11	24.0	27	5.63	7.52	0.85	12.2	4	1.64	4.46	0.94
8/12	24.0	21	4.38	7.41	0.87	12.5	3	1.20	4.34	0.95
8/13	24.0	3	0.63	7.17	0.87			0.00	4.34	0.95
8/14	24.0	25	5.21	7.10	0.89			0.00	4.34	0.95
8/15	24.0	30	6.25	7.07	0.92	12.3	2	0.81	4.22	0.95
8/16	24.0	14	2.92	6.94	0.93	12.2	2	0.82	4.12	0.96
8/17	24.0	9	1.88	6.78	0.94			0.00	4.12	0.96
8/18	24.0	14	2.92	6.66	0.96	12.0	0	0.00	3.99	0.96
8/19	24.0	8	1.67	6.51	0.96	12.2	1	0.41	3.88	0.96
8/20	24.0	6	1.25	6.36	0.97			0.00	3.88	0.96
8/21	24.0	7	1.46	6.23	0.97			0.00	3.88	0.96
8/22	24.0	1	0.21	6.06	0.98	12.2	1	0.41	3.78	0.96
8/23	24.0	1	0.21	5.91	0.98	11.8	4	1.69	3.73	0.98
8/24	24.0	2	0.42	5.77	0.98			0.00	3.73	0.98
8/25	24.0	2	0.42	5.64	0.98	12.1	1	0.41	3.64	0.98
8/26	24.0	2	0.42	5.51	0.98	12.2	0	0.00	3.54	0.98
8/27	24.0	7	1.46	5.41	0.99			0.00	3.54	0.98
8/28	24.0	2	0.42	5.30	0.99			0.00	3.54	0.98
8/29	24.0	1	0.21	5.18	0.99	12.5	3	1.20	3.48	0.99
8/30	24.0	0	0.00	5.06	0.99	11.3	0	0.00	3.40	0.99
8/31	24.0	2	0.42	4.96	0.99			0.00	3.40	0.99
9/01	24.0	2	0.42	4.87	0.99	12.2	0	0.00	3.31	0.99
9/02	24.0	0	0.00	4.77	0.99	11.5	0	0.00	3.24	0.99
9/03	24.0	0	0.00	4.67	0.99			0.00	3.24	0.99
9/04	24.0	0	0.00	4.58	0.99			0.00	3.24	0.99
9/05	24.0	1	0.21	4.49	1.00	11.6	0	0.00	3.16	0.99
9/06	24.0	1	0.21	4.41	1.00	9.8	0	0.00	3.10	0.99
9/07	24.0	2	0.42	4.33	1.00			0.00	3.10	0.99
9/08	24.0	2	0.42	4.25	1.00	11.8	3	1.27	3.06	1.00
9/09								0.00	3.06	1.00
9/10						26.5	0	0.00	2.91	1.00
9/11						23.5	0	0.00	2.79	1.00
9/12						25.6	0	0.00	2.68	1.00
9/13						25.6	0	0.00	2.57	1.00
9/14						21.3	0	0.00	2.49	1.00
9/15						26.7	0	0.00	2.39	1.00
9/16						22.2	0	0.00	2.32	1.00
9/17						24.8	0	0.00	2.24	1.00
9/18						22.1	0	0.00	2.17	1.00
9/19						30.2	0	0.00	2.09	1.00
9/20						19.1	0	0.00	2.04	1.00
9/21						26.2	1	0.19	1.98	1.00
Totals	1296.0	1104	230.00			832.8	330	154.56		
		Mean day of catch 7/29					Mean day of catch 7/13			

	chum salmon catch, 1983 counts begin the day the tenth salmon was caught					chum salmon catch, 1984 counts begin the day the tenth salmon was caught				
Date	Hours	Catch	CPUE	CUM CPUE	CP(C)	Hours	Catch	CPUE	CUM CPUE	CP(C)
6/07										
6/08										
6/09										
6/10										
6/11										
6/12										
6/13										
6/14										
6/15	11.6	4	1.72	1.72	0.01					
6/16			0.00	1.72	0.01					
6/17	11.6	3	1.29	1.51	0.01					
6/18			0.00	1.51	0.01					
6/19	11.8	6	2.54	1.86	0.02					
6/20			0.00	1.86	0.02					
6/21	11.8	0	0.00	1.39	0.02					
6/22	11.7	10	4.27	1.97	0.04					
6/23			0.00	1.97	0.04					
6/24	11.6	3	1.29	1.85	0.05					
6/25			0.00	1.85	0.05	24.2	17	3.51	3.51	0.03
6/26	11.9	11	4.62	2.26	0.07			0.00	3.51	0.03
6/27			0.00	2.26	0.07	24.5	29	5.92	4.72	0.06
6/28	11.8	10	4.24	2.51	0.09			0.00	4.72	0.06
6/29	11.5	13	5.65	2.85	0.11	24.4	27	5.53	4.99	0.12
6/30			0.00	2.85	0.11			0.00	4.99	0.12
7/01	11.9	6	3.36	2.90	0.12			0.00	4.99	0.12
7/02			0.00	2.90	0.12	23.8	39	8.19	5.78	0.16
7/03	11.9	17	7.14	3.29	0.16			0.00	5.78	0.16
7/04			0.00	3.29	0.16	24.0	31	6.46	5.91	0.24
7/05	11.9	13	5.46	3.48	0.18			0.00	5.91	0.24
7/06	12.0	17	7.08	3.76	0.21	24.1	56	11.62	6.86	0.33
7/07			0.00	3.76	0.21			0.00	6.86	0.33
7/08	12.1	7	2.89	3.69	0.22			0.00	6.86	0.33
7/09			0.00	3.69	0.22	24.1	50	10.37	7.36	0.41
7/10	11.4	18	7.89	3.97	0.26			0.00	7.36	0.41
7/11			0.00	3.97	0.26	23.9	29	6.07	7.20	0.46
7/12	11.5	12	5.22	4.04	0.28			0.00	7.20	0.46
7/13	11.6	37	15.95	4.73	0.35	24.1	26	5.39	7.00	0.50
7/14			0.00	4.73	0.35			0.00	7.00	0.50
7/15	11.7	16	6.84	4.85	0.37			0.00	7.00	0.50
7/16			0.00	4.85	0.37	24.0	22	4.58	6.76	0.54
7/17	11.8	31	13.14	5.29	0.43			0.00	6.76	0.54
7/18			0.00	5.29	0.43	24.2	22	4.55	6.56	0.57
7/19	11.8	18	7.63	5.41	0.46			0.00	6.56	0.57
7/20	11.5	29	12.61	5.74	0.52	24.0	28	5.83	6.50	0.62
7/21			0.00	5.74	0.52			0.00	6.50	0.62
7/22	12.2	17	6.97	5.80	0.55			0.00	6.50	0.62
7/23			0.00	5.80	0.55	23.5	15	3.19	6.25	0.64
7/24	11.5	24	10.43	6.00	0.59			0.00	6.25	0.64
7/25			0.00	6.00	0.59	23.9	6	1.26	5.90	0.65
7/26	12.0	19	7.92	6.08	0.63	24.0	0	0.00	5.50	0.65
7/27	11.7	11	4.70	6.02	0.65	24.1	16	3.32	5.37	0.68
7/28			0.00	6.02	0.65	11.4	3	1.32	5.25	0.68
7/29	11.7	14	5.98	6.02	0.67			0.00	5.25	0.68
7/30			0.00	6.02	0.67	24.6	30	6.10	5.30	0.73
7/31	11.6	18	7.76	6.09	0.71	2.7	0	0.00	5.27	0.73
8/01			0.00	6.09	0.71	23.3	7	1.50	5.07	0.75
8/02	12.1	9	3.72	6.00	0.72			0.00	5.07	0.75
8/03	12.2	17	6.97	6.03	0.75	4.6	4	4.35	5.06	0.75
8/04			0.00	6.03	0.75			0.00	5.06	0.75
8/05	11.8	8	3.39	5.95	0.77			0.00	5.06	0.75
8/06			0.00	5.95	0.77	24.3	7	1.44	4.88	0.76
8/07	12.8	19	7.42	6.00	0.80			0.00	4.88	0.76
8/08			0.00	6.00	0.80	23.3	11	2.36	4.76	0.78
8/09	25.7	10	1.95	5.73	0.82			0.00	4.76	0.78
8/10	12.5	14	5.60	5.73	0.85	23.9	6	1.26	4.60	0.79
8/11			0.00	5.73	0.85			0.00	4.60	0.79
8/12	1.3	1	3.85	5.72	0.85			0.00	4.60	0.79
8/13			0.00	5.72	0.85	24.0	14	2.92	4.53	0.81
8/14	10.7	5	2.34	5.63	0.86	24.2	12	2.48	4.44	0.83
8/15			0.00	5.63	0.86	23.8	7	1.47	4.32	0.85
8/16	12.2	4	1.64	5.52	0.86			0.00	4.32	0.85
8/17	12.3	15	6.10	5.54	0.89	25.0	13	2.60	4.25	0.87
8/18			0.00	5.54	0.89			0.00	4.25	0.87
8/19	11.8	11	4.66	5.51	0.91			0.00	4.25	0.87
8/20			0.00	5.51	0.91	24.0	7	1.46	4.15	0.88
8/21	11.2	3	1.34	5.41	0.92			0.00	4.15	0.88
8/22			0.00	5.41	0.92	24.7	5	1.01	4.03	0.89
8/23	12.0	6	2.50	5.34	0.93	23.2	8	1.72	3.95	0.90
8/24	11.5	7	3.04	5.29	0.94	24.0	7	1.46	3.87	0.91
8/25			0.00	5.29	0.94			0.00	3.87	0.91
8/26	11.5	5	2.17	5.21	0.95			0.00	3.87	0.91
8/27			0.00	5.21	0.95	23.0	6	1.30	3.79	0.92
8/28	11.9	1	0.42	5.10	0.95	22.8	7	1.54	3.72	0.93
8/29			0.00	5.10	0.95	25.3	4	0.79	3.63	0.94
8/30	11.9	4	1.68	5.02	0.96	24.2	3	0.62	3.54	0.94
8/31	11.7	0	0.00	4.91	0.96	30.7	4	0.65	3.43	0.95
9/01			0.00	4.91	0.96			0.00	3.43	0.95
9/02	12.3	3	1.22	4.83	0.97			0.00	3.43	0.95
9/03			0.00	4.83	0.97	16.7	5	1.50	3.40	0.96
9/04	47.9	2	0.21	4.46	0.97	23.0	4	0.87	3.33	0.97
9/05			0.00	4.46	0.97	24.2	6	1.24	3.27	0.98
9/06	23.8	1	0.21	4.29	0.97	24.2	4	0.83	3.21	0.98
9/07	23.7	0	0.00	4.14	0.97	24.3	3	0.62	3.14	0.99
9/08	23.8	1	0.21	4.00	0.97			0.00	3.14	0.99
9/09	24.2	2	0.41	3.87	0.98			0.00	3.14	0.99
9/10	24.2	3	0.62	3.76	0.98	23.5	2	0.43	3.08	0.99
9/11	24.2	0	0.00	3.64	0.98	33.1	1	0.15	2.98	0.99
9/12	24.1	2	0.41	3.53	0.99	22.0	2	0.45	2.93	1.00
9/13			0.00	3.53	0.99	17.0	1	0.29	2.89	1.00
9/14	22.7	3	0.66	3.45	0.99	23.7	0	0.00	2.82	1.00
9/15	24.2	0	0.00	3.35	0.99			0.00	2.82	1.00
9/16	21.0	1	0.24	3.27	0.99			0.00	2.82	1.00
9/17	23.9	2	0.42	3.19	1.00	24.6	1	0.20	2.76	1.00
9/18	23.0	0	0.00	3.11	1.00	24.4	1	0.20	2.71	1.00
9/19			0.00	3.11	1.00					
9/20	48.9	0	0.00	2.94	1.00					
9/21	24.0	2	0.42	2.88	1.00					
	950.1	547	228.42			1122.5	608	130.92		
		Mean day of catch 7/20					Mean day of catch ~~7/16~~ 7/13			

Appendix Table 4. (p. 3 of 7)

	chum salmon catch, 1985 counts begin the day the tenth salmon was caught					chum salmon catch, 1986 counts begin the day the tenth salmon was caught				
Date	Hours	Catch	CPUE	CUM CPUE	CP(C)	Hours	Catch	CPUE	CUM CPUE	CP(C)
6/07										
6/08										
6/09										
6/10										
6/11										
6/12										
6/13										
6/14										
6/15										
6/16										
6/17										
6/18						24.2	11	2.27	1.55	0.07
6/19						24.1	4	0.83	1.42	0.06
6/20						24.0	3	0.63	1.54	0.05
6/21						23.9	9	1.88	1.77	0.05
6/22						24.3	9	1.85	1.74	0.03
6/23						23.9	14	2.93	1.68	0.02
6/24	23.9	17	3.56	3.56	0.02	23.7	2	0.42	0.42	0.00
6/25	25.3	22	4.35	3.96	0.05	24.0	5	1.04	0.73	0.01
6/26	23.0	32	6.96	4.92	0.09	25.0	5	1.00	0.83	0.02
6/27	24.5	22	4.49	4.81	0.11	24.0	10	2.08	1.14	0.03
6/28	23.7	19	4.01	4.65	0.14	12.1	13	5.37	1.61	0.05
6/29	24.1	29	6.02	4.88	0.17			0.00	1.61	0.05
6/30	23.7	37	7.81	5.29	0.22	24.0	9	1.88	1.66	0.06
7/01	9.8	20	10.20	5.56	0.24	24.1	9	1.87	1.69	0.07
7/02	7.0	34	24.29	6.27	0.28	23.9	6	1.26	1.63	0.08
7/03	24.0	38	7.92	6.46	0.33	24.1	10	2.07	1.68	0.10
7/04	23.8	36	7.56	6.57	0.37	23.9	8	1.67	1.68	0.11
7/05	23.9	19	3.97	6.33	0.40	12.2	11	4.51	1.83	0.12
7/06	9.2	7	3.80	6.24	0.41			0.00	1.83	0.12
7/07			0.00	6.24	0.41	24.4	11	2.25	1.87	0.14
7/08	23.2	38	8.19	6.40	0.45	24.5	11	2.24	1.90	0.15
7/09	24.1	58	12.03	6.83	0.52	23.8	14	2.94	1.98	0.17
7/10	23.9	34	7.11	6.85	0.56	23.9	10	2.09	1.98	0.19
7/11	24.1	38	7.88	6.92	0.61	24.2	12	2.48	2.02	0.20
7/12	24.4	22	4.51	6.77	0.64	12.4	10	4.03	2.08	0.22
7/13	8.6	9	5.23	6.74	0.65			0.00	2.08	0.22
7/14			0.00	6.74	0.65	24.6	23	4.67	2.24	0.25
7/15	24.3	25	5.14	6.64	0.68	23.0	20	4.35	2.36	0.27
7/16	23.9	3	0.63	6.32	0.68	24.1	17	3.53	2.42	0.30
7/17	24.3	11	2.26	6.11	0.70	24.0	23	4.79	2.54	0.33
7/18	33.8	20	2.96	5.89	0.72	226.4	40	0.88	2.00	0.39
7/19	24.1	8	1.66	5.70	0.73			0.00	2.00	0.39
7/20			0.00	5.70	0.73			0.00	2.00	0.39
7/21			0.00	5.70	0.73			0.00	2.00	0.39
7/22	24.2	21	4.34	5.64	0.76	24.2	44	9.09	2.24	0.45
7/23	24.9	13	2.61	5.51	0.77	26.8	49	9.14	2.49	0.51
7/24	23.1	10	2.16	5.36	0.78	12.9	26	10.08	2.62	0.55
7/25	23.7	19	4.01	5.33	0.81	24.1	44	9.13	2.82	0.61
7/26	24.6	8	1.63	5.19	0.82	12.0	30	12.50	2.96	0.65
7/27	7.4	1	0.68	5.13	0.82			0.00	2.96	0.65
7/28			0.00	5.13	0.82	24.2	34	7.02	3.08	0.70
7/29	23.8	22	4.62	5.12	0.84	24.2	32	6.61	3.18	0.74
7/30	23.9	6	1.26	4.98	0.85	23.9	36	7.53	3.30	0.79
7/31	23.8	7	1.47	4.87	0.86	24.5	41	8.37	3.44	0.85
8/01	24.2	7	1.45	4.76	0.87			0.00	3.44	0.85
8/02	24.3	3	0.62	4.63	0.87			0.00	3.44	0.85
8/03	10.7	1	0.47	4.57	0.87			0.00	3.44	0.85
8/04			0.00	4.57	0.87			0.00	3.44	0.85
8/05	23.8	2	0.42	4.45	0.88	24.2	13	2.69	3.42	0.87
8/06	24.3	1	0.21	4.32	0.88	24.2	19	3.93	3.44	0.89
8/07	24.0	3	0.63	4.22	0.88	23.7	24	5.06	3.48	0.93
8/08	24.0	9	1.88	4.16	0.89	24.4	6	1.23	3.42	0.94
8/09	24.0	13	2.71	4.12	0.91	11.9	2	0.84	3.39	0.94
8/10	11.0	5	2.27	4.10	0.91			0.00	3.39	0.94
8/11			0.00	4.10	0.91	24.0	6	1.25	3.34	0.95
8/12	24.2	9	1.86	4.04	0.93	24.2	1	0.21	3.27	0.95
8/13	24.0	9	1.88	3.98	0.94	24.0	12	2.50	3.25	0.96
8/14	29.2	8	1.37	3.91	0.95	24.1	5	1.04	3.20	0.97
8/15	19.5	11	2.82	3.89	0.96	24.1	4	0.83	3.15	0.98
8/16	23.5	11	2.34	3.85	0.97	12.0	3	1.25	3.13	0.98
8/17	11.6	0	0.00	3.81	0.97			0.00	3.13	0.98
8/18			0.00	3.81	0.97	23.9	1	0.21	3.07	0.98
8/19	24.1	1	0.21	3.73	0.97	24.1	2	0.41	3.02	0.98
8/20	23.8	5	1.05	3.67	0.98	24.0	1	0.21	2.96	0.99
8/21	24.8	3	0.60	3.60	0.98	24.0	2	0.42	2.91	0.99
8/22	23.8	2	0.42	3.54	0.99	23.9	0	0.00	2.86	0.99
8/23	23.7	3	0.63	3.48	0.99	11.8	0	0.00	2.83	0.99
8/24	9.1	0	0.00	3.45	0.99			0.00	2.83	0.99
8/25			0.00	3.45	0.99	23.9	0	0.00	2.78	0.99
8/26	23.0	4	0.87	3.40	1.00	24.0	0	0.00	2.73	0.99
8/27	24.2	2	0.41	3.34	1.00	24.0	1	0.21	2.68	0.99
8/28	24.2	0	0.00	3.28	1.00			0.00	2.68	0.99
8/29	23.7	0	0.00	3.21	1.00	48.0	2	0.21	2.59	0.99
8/30	24.2	0	0.00	3.15	1.00	11.8	1	0.42	2.58	0.99
8/31	23.5	0	0.00	3.10	1.00			0.00	2.58	0.99
9/01			0.00	3.10	1.00			0.00	2.58	0.99
9/02			0.00	3.10	1.00	24.0	1	0.21	2.54	1.00
9/03	24.3	0	0.00	3.04	1.00	24.1	2	0.41	2.50	1.00
9/04	23.6	1	0.21	2.99	1.00	23.9	1	0.21	2.46	1.00
9/05	24.0	0	0.00	2.94	1.00					
9/06	24.1	0	0.00	2.89	1.00					
9/07	11.6	1	0.42	2.87	1.00					
9/08										
9/09										
9/10										
9/11										
9/12										
9/13										
9/14										
9/15										
9/16										
9/17										
9/18										
9/19										
9/20										
9/21										
Totals	1426.2	819	201.05			1613.7	774	171.05		
	Mean day of catch 7/09					Mean day of catch 7/23				

Appendix Table 4. (p. 4 of 7)

	chum salmon catch, 1987 counts begin the day the tenth salmon was caught					chum salmon catch, 1988 counts begin the day the tenth salmon was caught				
Date	Hours	Catch	CPUE	CUM CPUE	CP(C)	Hours	Catch	CPUE	CUM CPUE	CP(C)
5/07							1			
5/08							0			
5/09							0			
5/10							0			
5/11							0			
5/12							0			
5/13							1			
5/14							2			
5/15							2			
5/16		1					0			
5/17	24.3	9	1.85	1.85	0.01	24	4	0.83	0.83	0.01
5/18	23.7	2	0.42	1.15	0.02	11	1	0.48	0.72	0.01
5/19	23.9	2	0.42	0.90	0.02			0.00	0.72	0.01
5/20	11.8	0	0.00	0.78	0.02	24.3	9	1.85	1.19	0.02
5/21			0.00	0.78	0.02	23.9	11	2.30	1.51	0.03
5/22	23.6	3	0.64	0.75	0.03	24.0	11	2.29	1.68	0.05
5/23	23.9	2	0.42	0.69	0.03	24.2	10	2.07	1.75	0.06
5/24	24.0	7	1.46	0.81	0.04	23.7	7	1.48	1.71	0.07
5/25	24.1	11	2.28	1.00	0.06	9.0	5	3.33	1.80	0.08
5/26	24.2	10	2.07	1.13	0.08			0.00	1.80	0.08
5/27			0.00	1.13	0.08	24.1	10	2.07	1.84	0.09
5/28	48.0	17	1.77	1.25	0.10			0.00	1.84	0.09
5/29	23.9	12	2.51	1.36	0.12	53.0	6	0.57	1.56	0.10
5/30	24.1	9	1.87	1.40	0.14	119.1	0	0.00	1.04	0.10
7/01	23.7	6	1.27	1.39	0.15	24.2	2	0.41	1.00	0.10
7/02	24.0	7	1.46	1.40	0.16	10.3	0	0.00	0.98	0.10
7/03	24.0	2	0.42	1.33	0.16			0.00	0.98	0.10
7/04			0.00	1.33	0.16	24.2	9	1.86	1.03	0.11
7/05	47.6	15	1.58	1.36	0.19	24.0	9	1.88	1.07	0.12
7/06	24.5	9	1.84	1.39	0.20	24.0	7	1.46	1.09	0.13
7/07	24	0	0.00	1.32	0.20	24.1	7	1.45	1.11	0.14
7/08	24.1	6	1.24	1.31	0.21	23.9	10	2.09	1.16	0.15
7/09	24.0	18	3.75	1.43	0.24	11.6	4	1.72	1.17	0.16
7/10	24.3	27	5.56	1.61	0.29			0.00	1.17	0.16
7/11	11.2	15	6.70	1.72	0.31	24.4	5	1.02	1.16	0.17
7/12			0.00	1.72	0.31	23.9	8	1.67	1.18	0.18
7/13	23.3	23	4.94	1.85	0.35	23.9	16	3.35	1.27	0.20
7/14	23.9	10	2.09	1.86	0.37	23.9	20	4.18	1.38	0.22
7/15			0.00	1.86	0.37	24.1	13	2.70	1.43	0.24
7/16	48.4	20	2.07	1.87	0.40	10.8	8	3.70	1.47	0.25
7/17	23.8	5	1.05	1.84	0.41			0.00	1.47	0.25
7/18	10.9	1	0.46	1.82	0.41	24.1	17	3.53	1.54	0.27
7/19			0.00	1.82	0.41	24.0	8	1.67	1.55	0.28
7/20	24.2	10	2.07	1.83	0.42	24.0	7	1.46	1.54	0.29
7/21	24	18	3.78	1.89	0.45	24.2	7	1.45	1.54	0.30
7/22	24.0	24	5.00	1.99	0.49	24.0	9	1.88	1.55	0.31
7/23	24.3	21	4.32	2.06	0.53	25.4	6	1.18	1.54	0.32
7/24	23.8	23	4.83	2.15	0.57			0.00	1.54	0.32
7/25	10.5	13	6.19	2.20	0.59			0.00	1.54	0.32
7/26			0.00	2.20	0.59			0.00	1.54	0.32
7/27	23.4	8	1.71	2.19	0.60	22.7	35	7.71	1.71	0.36
7/28	24.3	4	0.82	2.15	0.61	24.3	14	2.88	1.74	0.38
7/29	23.9	3	0.63	2.11	0.61	23.6	28	5.93	1.85	0.42
7/30	23.7	10	2.11	2.11	0.63	10.3	16	7.77	1.92	0.44
7/31	23.9	5	1.05	2.08	0.64			0.00	1.92	0.44
8/01			0.00	2.08	0.64	24.0	13	2.71	1.94	0.46
8/02	47.6	18	1.89	2.07	0.67	24.8	9	1.81	1.94	0.47
8/03	24.0	16	3.33	2.10	0.69	24.1	11	2.28	1.95	0.48
8/04	24.2	15	3.10	2.12	0.72	23.9	14	2.93	1.97	0.50
8/05	23.7	12	2.53	2.13	0.74	24.2	8	1.65	1.97	0.51
8/06	24.3	22	4.53	2.19	0.77	10.2	3	1.47	1.96	0.51
8/07	24.1	18	3.73	2.22	0.80			0.00	1.96	0.51
8/08	10.4	10	4.81	2.24	0.82	23.9	11	2.30	1.97	0.53
8/09			0.00	2.24	0.82	24.1	15	3.11	1.99	0.55
8/10	24.2	8	1.65	2.23	0.83			0.00	1.99	0.55
8/11	23.8	9	1.89	2.23	0.85	47.9	16	1.67	1.98	0.57
8/12	23.9	4	0.84	2.20	0.85	23.9	11	2.30	1.99	0.58
8/13	24.3	10	2.06	2.19	0.87	9.1	4	2.20	1.99	0.59
8/14	23.9	8	1.67	2.18	0.88			0.00	1.99	0.59
8/15	23.8	6	1.26	2.17	0.89	16.1	9	2.80	2.00	0.60
8/16	24.0	5	1.04	2.15	0.90	23.9	2	0.42	1.97	0.60
8/17	24.2	10	2.07	2.14	0.92	23.9	2	0.42	1.94	0.60
8/18	23.8	6	1.26	2.13	0.93	23.9	1	0.21	1.90	0.61
8/19	24.0	3	0.63	2.10	0.93			0.00	1.90	0.61
8/20	24.2	7	1.45	2.09	0.94	33.9	1	0.15	1.86	0.61
8/21	24.0	5	1.04	2.07	0.95			0.00	1.86	0.61
8/22	24.0	4	0.83	2.05	0.96	24.0	1	0.21	1.83	0.61
8/23	23.9	2	0.42	2.02	0.96	24.0	0	0.00	1.79	0.61
8/24	23.9	1	0.21	1.99	0.96	24.5	0	0.00	1.76	0.61
8/25	24.2	1	0.21	1.97	0.97	23.7	5	1.05	1.75	0.61
8/26	24.1	5	1.04	1.95	0.97	23.7	2	0.42	1.72	0.62
8/27	24.0	2	0.42	1.93	0.98	9.8	2	1.02	1.72	0.62
8/28	23.9	0	0.00	1.90	0.98			0.00	1.72	0.62
8/29	10.8	0	0.00	1.88	0.98	24.0	0	0.00	1.69	0.62
8/30			0.00	1.88	0.98	24.0	0	0.00	1.66	0.62
8/31	13.1	2	0.76	1.88	0.98	24.1	1	0.21	1.64	0.62
9/01	24.2	1	0.21	1.85	0.98	24.1	0	0.00	1.61	0.62
9/02	23.9	3	0.63	1.83	0.99	23.9	3	0.63	1.60	0.63
9/03	23.9	2	0.42	1.81	0.99	10.2	1	0.49	1.59	0.63
9/04	24.1	1	0.21	1.79	0.99			0.00	1.59	0.63
9/05	24.8	2	0.40	1.77	1.00	23.9	0	0.00	1.56	0.63
9/06	23.5	0	0.00	1.74	1.00	23.0	1	0.22	1.55	0.63
9/07			0.00	1.74	1.00	25.0	0	0.00	1.52	0.63
9/08	47.8	3	0.31	1.71	1.00	24.2	0	0.00	1.50	0.63
9/09						24.2	2	0.41	1.48	0.63
9/10						24.0	0	0.00	1.46	0.63
9/11								0.00	1.46	0.63
9/12						48.0	0	0.00	1.42	0.63
9/13										
9/14										
9/15										
9/16										
9/17										
9/18										
9/19										
9/20										
9/21										
Totals	1781.5	609	129.45			2211.0	494	113.30		
		Mean day of catch 7/23					Mean day of catch 8/04			

Appendix Table 4. (p. 5 of 7)

	chum salmon catch, 1989 counts begin the day the tenth salmon was caught					chum salmon catch, 1990 counts begin the day the tenth salmon was caught				
Date	Hours	Catch	CPUE	CUM CPUE	CP(C)	Hours	Catch	CPUE	CUM CPUE	CP(C)
6/07										
6/08										
6/09										
6/10										
6/11										
6/12	22.5	1	0.22	0.22	0.00					
6/13	23.5	3	0.64	0.43	0.01	15.2	1			
6/14	24.0	4	0.83	0.57	0.01	24.0	0			
6/15	24.0	10	2.08	0.96	0.02	24.1	4			
6/16	23.9	3	0.63	0.89	0.03	10.1	1			
6/17	24.0	6	1.25	0.95	0.04					
6/18	24.0	21	4.38	1.45	0.07	23.7	12	2.53	0.93	0.05
6/19	24.6	17	3.43	1.70	0.09	23.8	6	1.26	0.99	0.07
6/20	22.3	9	2.02	1.74	0.10	24.2	3	0.62	0.93	0.08
6/21	22.8	25	5.48	2.10	0.13	23.8	2	0.42	0.86	0.09
6/22	24.0	19	3.96	2.27	0.16	24.2	3	0.62	0.83	0.09
6/23	24.0	10	2.08	2.26	0.17	10.0	3	1.50	0.86	0.10
6/24	11.0	7	3.18	2.29	0.18			0.00	0.86	0.10
6/25			0.00	2.29	0.18	30.0	12	2.00	1.01	0.14
6/26	23.8	25	5.25	2.51	0.22	21.6	5	1.15	1.02	0.15
6/27	24.0	29	6.04	2.76	0.26	23.8	7	1.47	1.06	0.18
6/28	24.0	21	4.38	2.86	0.28	23.5	6	1.28	1.08	0.19
6/29	24.0	17	3.54	2.91	0.31	24.2	4	0.83	1.06	0.20
6/30			0.00	2.91	0.31	9.3	3	1.61	1.07	0.21
7/01	34.8	12	1.72	2.81	0.32			0.00	1.07	0.21
7/02			0.00	2.81	0.32	22.9	2	0.44	1.03	0.22
7/03	24.1	25	5.19	2.94	0.36	24.3	4	0.82	1.02	0.23
7/04	24.0	17	3.54	2.97	0.38	24.0	3	0.63	1.00	0.24
7/05	23.9	14	2.93	2.97	0.40	23.8	4	0.84	0.99	0.25
7/06	24.1	18	3.73	3.00	0.42	23.8	13	2.73	1.08	0.29
7/07	24.0	12	2.50	2.98	0.44	9.9	15	7.58	1.22	0.34
7/08	10.0	12	6.00	3.03	0.46			0.00	1.22	0.34
7/09			0.00	3.03	0.46	24.1	19	3.94	1.35	0.39
7/10	24.1	26	5.39	3.13	0.49	23.6	3	0.64	1.32	0.40
7/11	23.9	16	3.35	3.14	0.51	24.3	3	0.62	1.29	0.41
7/12	24.0	16	3.33	3.15	0.54	23.9	12	2.51	1.34	0.45
7/13	24.0	18	3.75	3.17	0.56	23.8	18	3.78	1.44	0.50
7/14	24.0	26	5.42	3.25	0.59	9.8	4	2.04	1.45	0.51
7/15	10.2	9	4.41	3.27	0.61			0.00	1.45	0.51
7/16			0.00	3.27	0.61	23.3	10	2.15	1.47	0.54
7/17	14.0	11	3.93	3.28	0.62	24.0	7	1.46	1.47	0.56
7/18	24.2	23	4.75	3.33	0.65	24.0	19	3.96	1.56	0.62
7/19	24.1	12	2.49	3.30	0.67	23.9	18	3.77	1.64	0.67
7/20	24.1	9	1.87	3.26	0.68	24.4	20	4.10	1.72	0.73
7/21	24.0	11	2.29	3.23	0.70	9.7	5	2.58	1.74	0.74
7/22	10.0	12	6.00	3.26	0.71			0.00	1.74	0.74
7/23			0.00	3.26	0.71	23.7	6	1.27	1.72	0.76
7/24	28.8	35	6.08	3.36	0.76	23.8	2	0.42	1.68	0.77
7/25	18.3	23	6.28	3.42	0.79	24.3	7	1.44	1.67	0.79
7/26	23.8	24	5.04	3.47	0.82	23.4	4	0.85	1.65	0.80
7/27	24.5	16	3.27	3.46	0.85	24.4	3	0.61	1.62	0.81
7/28	23.7	0	0.00	3.37	0.85	7.9	0	0.00	1.60	0.81
7/29	10.2	5	2.45	3.36	0.85			0.00	1.60	0.81
7/30			0.00	3.36	0.85	24.3	7	1.44	1.60	0.83
7/31	24.3	18	3.70	3.37	0.88	24.0	4	0.83	1.58	0.84
8/01	23.8	12	2.52	3.35	0.89	23.7	4	0.84	1.56	0.85
8/02	24.5	12	2.45	3.33	0.91	23.9	3	0.63	1.54	0.86
8/03	23.8	9	1.89	3.30	0.92	25.3	1	0.20	1.50	0.87
8/04	24.0	5	1.04	3.24	0.93	7.5	0	0.00	1.49	0.87
8/05	10.2	5	2.45	3.24	0.93			0.00	1.49	0.87
8/06			0.00	3.24	0.93	23.2	3	0.65	1.47	0.88
8/07	24.3	6	1.23	3.19	0.94	24.0	2	0.42	1.45	0.88
8/08	23.9	3	0.63	3.14	0.95	24.0	3	0.63	1.43	0.89
8/09	24.2	2	0.41	3.08	0.95	23.8	1	0.21	1.40	0.89
8/10	23.8	4	0.84	3.03	0.96	23.8	0	0.00	1.37	0.89
8/11			0.00	3.03	0.96	11.0	0	0.00	1.36	0.89
8/12	33.8	3	0.44	2.96	0.96			0.00	1.36	0.89
8/13			0.00	2.96	0.96	22.0	8	1.82	1.37	0.92
8/14	24.0	9	1.88	2.94	0.97	24.0	1	0.21	1.34	0.92
8/15	24.2	4	0.83	2.90	0.98	24.0	0	0.00	1.31	0.92
8/16	24.2	1	0.21	2.85	0.98	24.0	2	0.42	1.30	0.93
8/17	23.6	1	0.21	2.80	0.98	24.2	2	0.41	1.28	0.93
8/18			0.00	2.80	0.98	9.4	1	0.53	1.27	0.93
8/19	32.8	0	0.00	2.73	0.98			0.00	1.27	0.93
8/20			0.00	2.73	0.98	23.5	2	0.43	1.26	0.94
8/21	24.0	1	0.21	2.68	0.98	24.2	2	0.41	1.24	0.95
8/22	24.0	3	0.63	2.65	0.99	24.6	2	0.41	1.23	0.95
8/23	23.5	1	0.21	2.61	0.99	23.2	2	0.43	1.21	0.96
8/24			0.00	2.61	0.99	24.2	2	0.41	1.20	0.96
8/25	34.5	2	0.29	2.55	0.99	8.5	0	0.00	1.19	0.96
8/26	25.0	0	0.00	2.51	0.99			0.00	1.19	0.96
8/27			0.00	2.51	0.99	16.9	6	2.37	1.20	0.99
8/28	24.0	0	0.00	2.47	0.99	24.0	0	0.00	1.18	0.99
8/29	25.8	1	0.19	2.43	0.99	24.0	0	0.00	1.16	0.99
8/30	22.8	1	0.22	2.39	0.99	24.1	0	0.00	1.15	0.99
8/31	23.7	1	0.21	2.36	0.99	24.0	0	0.00	1.13	0.99
9/01	23.8	3	0.63	2.34	1.00	9.0	0	0.00	1.12	0.99
9/02	11.8	0	0.00	2.32	1.00			0.00	1.12	0.99
9/03			0.00	2.32	1.00	23.7	0	0.00	1.10	0.99
9/04	23.3	0	0.00	2.28	1.00	23.2	1	0.22	1.09	0.99
9/05	24.0	0	0.00	2.25	1.00	33.0	1	0.15	1.07	0.99
9/06			0.00	2.25	1.00			0.00	1.07	0.99
9/07	48.3	2	0.21	2.19	1.00			0.00	1.07	0.99
9/08	23.7	0	0.00	2.16	1.00			0.00	1.07	0.99
9/09	24.0	0	0.00	2.13	1.00			0.00	1.07	0.99
9/10	24.0	0	0.00	2.10	1.00	14.1	0	0.00	1.06	0.99
9/11	23.8	0	0.00	2.07	1.00	23.5	0	0.00	1.04	0.99
9/12	24.0	0	0.00	2.05	1.00	24.0	2	0.42	1.03	1.00
9/13										
9/14										
9/15										
9/16										
9/17										
9/18										
9/19										
9/20										
9/21										
Totals	1802.5	738	158.54			1886.1	337	78.91		
	Mean day of catch 7/11					Mean day of catch 7/13				

Appendix Table 4. (p. 6 of 7)

	chum salmon catch, 1991 counts begin the day the tenth salmon was caught					chum salmon catch, 1992 counts begin the day the tenth salmon was caught				
Date	Chum Hours	Catch	CPUE	CUM CPUE	CP(C)	Chum Hours	Catch	CPUE	CUM CPUE	CP(C)
6/07										
6/08										
6/09										
6/10	22.0	1	0.23							
6/11	23.6	1	0.21							
6/12	24.0	4	0.83							
6/13	24.0	1	0.21							
6/14	24.0	5	1.04	1.04	0.01					
6/15	23.9	1	0.21	0.63	0.01					
6/16	24.0	4	0.83	0.70	0.01					
6/17	24.2	5	1.03	0.78	0.02					
6/18	23.5	3	0.64	0.75	0.02					
6/19	23.8	3	0.63	0.73	0.03					
6/20	24.0	0	0.00	0.63	0.03					
6/21	24.1	0	0.00	0.55	0.03					
6/22	24.1	3	0.62	0.56	0.03					
6/23	24.0	10	2.08	0.71	0.05	17.7	4			
6/24	23.9	4	0.84	0.72	0.05	23.8	1			
6/25	24.0	1	0.21	0.68	0.05	24.0	5	1.04	1.04	0.01
6/26	24.0	4	0.83	0.69	0.06	24.0	14	2.92	1.98	0.02
6/27	24.1	4	0.83	0.70	0.06	24.0	34	7.08	3.68	0.06
6/28	24.0	1	0.21	0.67	0.07	24.2	36	7.44	4.63	0.10
6/29	9.1	2	1.10	0.68	0.07	23.8	24	5.04	4.71	0.12
6/30	0.0		0.00	0.68	0.07	24.0	32	6.67	5.03	0.16
7/01	23.6	12	2.54	0.79	0.08	24.0	26	5.42	5.09	0.18
7/02	24.0	1	0.21	0.76	0.09	24.0	18	3.75	4.92	0.20
7/03	24.0	8	1.67	0.81	0.10	24.7	16	3.24	4.73	0.22
7/04	24.0	13	2.71	0.90	0.11	23.3	17	3.65	4.63	0.24
7/05	24.0	1	0.21	0.87	0.12	24.2	44	9.09	5.03	0.29
7/06	8.7	1	0.57	0.87	0.12	24.1	72	14.94	5.86	0.37
7/07	0.0		0.00	0.87	0.12	23.8	47	9.87	6.17	0.42
7/08	24.0	9	1.88	0.91	0.13	24.0	36	7.50	6.26	0.45
7/09	24.0	3	0.63	0.90	0.13	24.0	20	4.17	6.12	0.48
7/10	24.0	3	0.63	0.89	0.14	25.0	17	3.40	5.95	0.49
7/11	23.9	12	2.51	0.95	0.15	24.0	20	4.17	5.84	0.52
7/12	24.1	8	1.66	0.98	0.16	23.0	24	5.22	5.81	0.54
7/13	8.5	5	2.94	1.01	0.17	24.0	26	5.42	5.79	0.57
7/14	0.0		0.00	1.01	0.17	24.0	25	5.21	5.76	0.60
7/15	23.9	23	4.81	1.15	0.20	24.0	23	4.79	5.71	0.62
7/16	24.0	17	3.54	1.23	0.23	24.0	15	3.13	5.60	0.64
7/17	24.2	16	3.31	1.30	0.25	24.0	11	2.29	5.45	0.65
7/18	24.0	26	5.42	1.44	0.28	6.8	5	3.68	5.43	0.66
7/19	24.0	31	6.46	1.60	0.33					
7/20	8.9	15	8.43	1.68	0.35	24.3	25	5.14	5.42	0.68
7/21	0.0		0.00	1.68	0.35	22.7	8	1.76	5.28	0.69
7/22	24.0	28	5.83	1.81	0.38	24.0	3	0.63	5.10	0.69
7/23	24.0	24	5.00	1.91	0.42	24.0	12	2.50	5.01	0.71
7/24	24.0	19	3.96	1.97	0.44	24.4	8	1.64	4.89	0.72
7/25	23.8	20	4.20	2.03	0.47	6.0	0	0.00	4.84	0.72
7/26	24.1	22	4.56	2.10	0.50					
7/27	9.0	14	7.78	2.16	0.52	23.8	13	2.73	4.77	0.73
7/28	0.0		0.00	2.16	0.52	23.9	12	2.51	4.70	0.74
7/29	23.9	26	5.44	2.24	0.55	24.0	8	1.67	4.60	0.75
7/30	24.0	21	4.38	2.30	0.58	24.0	12	2.50	4.54	0.76
7/31	24.0	25	5.21	2.37	0.62	24.0	4	0.83	4.43	0.77
8/01	24.0	22	4.58	2.43	0.65	6.2	2	1.61	4.41	0.77
8/02	24.0	35	7.29	2.54	0.69					
8/03	8.1	10	6.17	2.57	0.71	23.8	4	0.84	4.30	0.78
8/04	0.0		0.00	2.57	0.71	23.9	5	1.05	4.21	0.78
8/05	23.7	33	6.96	2.67	0.75	24.0	2	0.42	4.11	0.78
8/06	24.0	24	5.00	2.72	0.79	24.0	18	3.75	4.10	0.80
8/07	24.0	37	7.71	2.83	0.84	24.0	10	2.08	4.05	0.81
8/08	24.2	19	3.93	2.88	0.86	6.8	6	4.41	4.05	0.82
8/09	23.8	11	2.31	2.85	0.88					
8/10	9.1	2	1.10	2.83	0.88	23.6	17	3.60	4.04	0.84
8/11			0.00	2.83	0.88	24.0	3	0.63	3.96	0.84
8/12	23.9	8	1.67	2.81	0.89	7.8	4	2.56	3.95	0.85
8/13	24.0	5	1.04	2.77	0.90	15.6	15	4.81	3.96	0.86
8/14	24.0	5	1.04	2.74	0.90	23.9	23	4.81	3.98	0.89
8/15	24.0	6	1.25	2.71	0.91	6.8	5	3.68	3.98	0.89
8/16	24.0	4	0.83	2.67	0.92					
8/17	9.0	3	1.67	2.67	0.92	23.8	18	3.78	3.97	0.91
8/18	0.0		0.00	2.67	0.92	24.3	16	3.29	3.96	0.93
8/19	23.8	3	0.63	2.63	0.93	23.8	12	2.52	3.93	0.94
8/20	24.0	6	1.25	2.60	0.93	24.0	8	1.67	3.88	0.95
8/21	24.0	11	2.29	2.60	0.95	24.0	6	1.25	3.82	0.96
8/22	24.0	10	2.08	2.59	0.96	7.5	2	1.33	3.81	0.96
8/23	24.0	6	1.25	2.57	0.97					
8/24	8.5	1	0.59	2.55	0.97	24.1	9	1.87	3.77	0.97
8/25	0.0		0.00	2.55	0.97	24.0	1	0.21	3.70	0.97
8/26	23.5	1	0.21	2.52	0.97	24.0	2	0.42	3.64	0.97
8/27	24.0	3	0.63	2.48	0.98	24.0	1	0.21	3.57	0.97
8/28	24.3	2	0.41	2.45	0.98	24.0	1	0.21	3.51	0.97
8/29	25.6	3	0.59	2.42	0.98	7.2	1	0.69	3.49	0.98
8/30	22.5	1	0.22	2.39	0.99					
8/31	8.4	0	0.00	2.37	0.99	23.5	5	1.06	3.45	0.98
9/01	0.0		0.00	2.37	0.99	23.7	3	0.63	3.40	0.98
9/02	23.4	1	0.21	2.34	0.99	24.0	4	0.83	3.35	0.99
9/03	24.0	5	1.04	2.32	0.99	24.0	3	0.63	3.31	0.99
9/04	24.2	1	0.21	2.29	0.99	24.1	1	0.21	3.25	0.99
9/05	24.0	2	0.42	2.26	1.00	7.0	0	0.00	3.24	0.99
9/06	23.9	2	0.42	2.23	1.00					
9/07	8.3	0	0.00	2.22	1.00	23.6	1	0.21	3.19	0.99
9/08	0.0		0.00	2.22	1.00	24.2	6	1.24	3.16	1.00
9/09	24.2	0	0.00	2.19	1.00					
9/10	23.7	0	0.00	2.16	1.00					
9/11										
9/12										
Totals	1701	735	172.58			1467.2	926	207.53		
		Mean day of catch 7/26					Mean day of catch 7/11			

Appendix Table 4. (p. 7 of 7)

chum salmon catch, 1993
counts begin the day the
tenth salmon was caught

Date	Chum Hours	Catch	CPUE	CUM CPUE	CP(C)
6/07					
6/08	23.7	3			
6/09	24.0	2			
6/10	24.0	0			
6/11	24.0	1			
6/12	24.0	4	0.83	0.83	0.01
6/13	24.0	5	1.04	0.94	0.01
6/14	24.0	4	0.83	0.90	0.02
6/15	24.0	10	2.08	1.20	0.04
6/16	24.0	1	0.21	1.00	0.04
6/17	24.3	4	0.82	0.97	0.04
6/18	24.0	7	1.46	1.04	0.06
6/19	24.0	20	4.17	1.43	0.09
6/20	23.7	15	3.16	1.62	0.11
6/21	24.0	8	1.67	1.63	0.12
6/22	24.0	1	0.21	1.50	0.12
6/23	24.0	4	0.83	1.44	0.13
6/24	24.0	5	1.04	1.41	0.14
6/25	24.0	4	0.83	1.37	0.14
6/26	25.7	2	0.39	1.30	0.15
6/27	22.6	8	1.77	1.33	0.16
6/28	23.8	18	3.78	1.47	0.19
6/29	24.0	8	1.67	1.48	0.20
6/30	24.0	1	0.21	1.41	0.20
7/01	24.0	3	0.63	1.37	0.21
7/02	24.0	3	0.63	1.34	0.21
7/03	8.5	3	1.76	1.35	0.22
7/04			0.00	1.35	0.22
7/05	23.7	16	3.38	1.44	0.24
7/06	24.0	6	1.25	1.43	0.25
7/07	24.0	9	1.88	1.45	0.27
7/08	24.0	18	3.75	1.54	0.29
7/09	24.0	11	2.29	1.57	0.31
7/10	9.0	2	1.11	1.56	0.31
7/11			0.00	1.56	0.31
7/12	24.0	2	0.42	1.52	0.32
7/13	24.0	8	1.67	1.52	0.33
7/14	24.0	11	2.29	1.55	0.35
7/15	24.0	5	1.04	1.53	0.36
7/16	24.0	8	1.67	1.54	0.37
7/17	8.5	4	2.35	1.55	0.37
7/18			0.00	1.55	0.37
7/19	24.0	8	1.67	1.55	0.39
7/20	24.0	6	1.25	1.54	0.40
7/21	24.0	2	0.42	1.51	0.40
7/22	24.0	5	1.04	1.50	0.41
7/23	24.0	3	0.83	1.47	0.41
7/24	8.5	2	1.18	1.47	0.42
7/25			0.00	1.47	0.42
7/26	23.7	19	4.01	1.53	0.45
7/27	23.8	3	0.63	1.51	0.45
7/28	24.0	18	3.75	1.57	0.48
7/29	24.0	18	3.75	1.62	0.51
7/30	24.0	15	3.13	1.66	0.53
7/31	8.5	3	1.76	1.66	0.54
8/01			0.00	1.66	0.54
8/02	23.5	18	3.83	1.71	0.58
8/03	24.0	14	2.92	1.73	0.59
8/04	24.0	18	3.75	1.78	0.61
8/05	24.0	11	2.29	1.79	0.63
8/06	24.0	10	2.08	1.79	0.65
8/07	8.5	5	2.94	1.80	0.66
8/08			0.00	1.80	0.66
8/09	24.0	5	1.04	1.79	0.66
8/10	24.0	6	1.25	1.78	0.67
8/11	24.0	4	0.83	1.76	0.68
8/12	24.0	9	1.88	1.76	0.69
8/13	24.0	11	2.29	1.77	0.71
8/14	8.5	2	1.18	1.77	0.71
8/15			0.00	1.77	0.71
8/16	23.5	14	2.98	1.79	0.74
8/17	24.0	14	2.92	1.81	0.76
8/18	24.0	19	3.96	1.85	0.79
8/19	24.0	13	2.71	1.86	0.81
8/20	24.5	18	3.67	1.89	0.84
8/21	8.0	3	1.88	1.89	0.84
8/22			0.00	1.89	0.84
8/23	23.7	12	2.53	1.90	0.86
8/24	24.0	22	4.58	1.95	0.89
8/25	24.0	8	1.67	1.94	0.91
8/26	24.0	13	2.71	1.95	0.93
8/27	24.0	10	2.08	1.96	0.94
8/28	7.5	1	0.67	1.95	0.94
8/29			0.00	1.95	0.94
8/30	23.8	5	1.05	1.94	0.95
8/31	24.0	12	2.50	1.95	0.97
9/01	24.0	4	0.83	1.93	0.98
9/02	24.0	2	0.42	1.91	0.98
9/03	24.0	6	1.25	1.90	0.99
9/04	9.0	1	0.56	1.89	0.99
9/05			0.00	1.89	0.99
9/06	23.7	2	0.42	1.87	1.00
9/07	24.0	2	0.42	1.85	1.00
9/08	24.0	1	0.21	1.83	1.00
9/09					
9/10					
9/11					
9/12					
Totals	1738.5	635	142.60		
		Mean day of catch 7/29			

Appendix Table 5. Commercial and subsistence salmon catches by species, by subdistrict, Norton Sound District, 1961-1993.

	Commercial						Subsistence						Combined					
Year	Chinook	Sockeye	Coho	Pink	Chum	Total	Chinook	Coho	Pink	Chum	Total		Chinook	Sockeye	Coho	Pink	Chum	Total
							UNALAKLEET (SUBDISTRICT 6)											
1961	5160	35	13807	5162	23586	47750	-	-	-	-	-		5160	35	13807	5162	23586	47750
1962	5089	-	6739	6769	30283	48880	-	-	-	-	-		5089	-	6739	6769	30283	48880
1963	5941	18	16202	11140	27003	60304	-	-	-	-	-		5941	18	16202	11140	27003	60304
1964	1273	1	79	1	19611	20965	488	2227	7030	6726	16471		1761	1	2306	7031	26337	37436
1965	1321	-	2030	24	26498	29873	521	4562	11488	8791	25362		1842	-	6592	11512	35289	55235
1966	1208	-	4183	5023	16840	27254	90	789	6083	3387	10349	f	1298	-	4972	11106	20227	37603
1967	1751	-	1544	21961	8502	33758	490	484	9964	-	10938	f	2241	-	2028	31925	8502	44696
1968	960	-	6549	41474	14865	63848	186	1493	11044	2982	15705	f	1146	-	8042	52518	17847	79553
1969	2276	-	5273	40558	22032	70139	324	1483	4230	4196	10233	f	2600	-	6756	44788	26228	80372
1970	1604	-	4261	30779	40029	76673	495	3907	10104	7214	21720	f	2099	-	8168	40883	47244	98393
1971	2166	-	2688	1196	37543	43593	911	3137	2230	7073	13351	f	3077	-	5825	3426	44616	56944
1972	2235	-	412	28231	20440	51318	643	1818	3132	4132	9725		2878	-	2230	31363	24572	61043
1973	1397	-	8922	13335	25716	49370	323	213	6233	3426	10195		1720	-	9135	19568	29142	59565
1974	2100	-	1778	93332	36170	133380	313	706	7341	588	8948		2413	-	2484	100673	36758	142328
1975	1638	-	3167	12137	48740	65682	163	74	4758	2038	7033		1801	-	3241	16895	50778	72715
1976	1211	1	5141	37203	24268	67824	142	694	4316	2832	7984		1353	1	5835	41519	27100	75808
1977	2691	1	2781	21001	32936	59410	723	1557	8870	6085	17235		3414	1	4338	29871	39021	76645
1978	7525	5	5737	136200	37079	186546	1044	2538	13268	3442	20292		8569	5	8275	149468	40521	206838
1979	6354	8	23696	49647	30445	110150	640	3330	6960	1597	12527		6994	8	27026	56607	32042	122677
1980	4339	3	21512	203142	64198	293194	1046	4758	19071	5230	30105		5385	3	26270	222213	69428	323299
1981	6157	47	29845	123233	39186	198468	869	5808	5750	4235	16686	c	7026	71	35650	128983	43421	215154
1982	3768	2	61343	142856	44520	252489	913	7037	20045	4694	32691	d	4681	4	68380	162901	49214	285090
1983	7022	13	36098	26198	109220	178551	1868	6888	13808	4401	26998	e	8890	46	42986	40006	113621	205549
1984	6804	6	47904	-	43317	98031	1650	6675	17418	3348	29092	g	8454	7	54579	17418	46665	127123
1985	12621	21	15421	1	25111	53175	1397	2244	55	1968	5667	h	14018	24	17665	56	27079	58842
1986	4494	153	20580	-	30239	55466	-	-	-	-	-	i	-	-	-	-	-	-
1987	3246	141	15097	97	17525	36106	-	-	-	-	-	i	-	-	-	-	-	-
1988	2218	157	24232	23730	25363	75700	-	-	-	-	-	i	-	-	-	-	-	-
1989	4402	222	36025	-	20825	61474	-	4681	17500	1388	-	j	-	-	-	-	-	-
1990	5998	358	52015	-	23659	82030	2476	-	-	-	-		-	-	-	-	-	-
1991	4534	147	52033	-	39609	96323	-	-	-	-	-	i	-	-	-	-	-	-
1992	3409	229	84449	6284	52547	146918	-	-	-	-	-	i	-	-	-	-	-	-
1993	5944	251	26290	42061	28156	102702	-	-	-	-	-	i	-	-	-	-	-	-
5-Year avg. a	4112	223	49751	15007	32401	92489	-	-	-	-	-		-	-	-	-	-	-
10-Year avg. b	5475	145	38385	5631	38741	88377	-	-	-	-	-		-	-	-	-	-	-

a 1988-1992
b 1983-1992
c Includes 24 sockeye salmon
d Includes 2 sockeye salmon
e Includes 33 sockeye salmon
f Subsistence catches from 1966-72 includes fish taken at St. Michael
g Includes 1 sockeye salmon
h Includes 3 sockeye salmon
i Subsistence surveys not conducted
j In-depth survey by Subsistence Division