AYK Region
Norton Sound/Kotzebue
Salmon Escapement
Report # 46

1986 Unalakleet River Test Fishing Project

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Introduction

The Unalakleet River system empties into Norton Sound approximately 130 miles southeast of Nome. The Unalakleet River flows approximately 130 miles from the Nulato Hills westward to the Bering Sea and drains an area of 1087 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 a basis of the cash economy.

Attempts to assess salmon escapement have included aerial surveys, 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. Hydroacoustic counting techniques have been used unsuccessfully in the three prior years (Lean and Peterson, 1982, 1983 and 1984). 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, 1981 and Lean, 1985). This report presents test fishing results from the 1986 season.

Methods

Project Deployment

On June 4 ten fathoms of 8 1/4" stretched measure net was fished for 22.5 hours. No fish were caught and the net was plugged with debris. Because of the high water and debris the test fishing schedule did not begin until June 11 when the standard 5 7/8" stretch measure net was set for the first time. Test fishing ended on September 11. 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 21 to July 3.

Test Fishing

The set gillnet test fishing has used similar gear since 1981. The large mesh nets have all been made of multifiliment nylon #103 (210/30) cable lay twine, 8 1/4 inch, light green in color with cork lines of 1/2 braided nylon stretched measure with "spongex" floats at 30 inch intervals and lead lines of braided lead core line with a weight of 95 pounds per 100 feet. The

medium sized mesh nets have been 5 7/8" stretched measure multifiliment nylon #63 (210/18) twine light green in color with similar cork and lead lines. The small mesh gear has been 4 1/2 inches stretched measure multifiliment nylon #43 (210/12) twine light green in color with similar cork and lead lines also. All nets were hung at a 2:1 ratio.

An effort has been made over the past four summers to use standard technique in setting the nets. The crew has picked landmarks and tried to set the net in line with a willow bush that serves as the onshore anchor and the down stream point of the 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.

An twenty fathom 5 7/8" net was fished from June 11 to September 11. One day, usually Sunday, was taken off each week. Test fishing days were roughly 24 hours in duration and began at 9:00 a.m.

The gillnets were picked at least twice daily and more often if needed to prevent fish or debris saturation. If conditions required frequent net checks the nets were only fished for a portion of the normal 24 hour schedule.

All fish caught in the test net were delivered to Martha Nanouk, a local subsistence fisher, as per agreement for the use of her traditional set net site. Fish that Mrs. Nanouk did not want were distributed among other village elders. Some of whom were: John Auliye, Pete Katongan, Ellen Soxie, Elizabeth Sarren, Ada Degnan, Betty Anagick, Lars Soosuk and Clara Oyoumick.

The daily catch of each salmon species along with the actual time fished was recorded for each gear type. From the daily catch and time fished a daily catch per unit effort (CPUE) of catch/100 fathom/hours could be calculated. Cumulative CPUE (calculated as cumulative catch/100 fathom/ cumulative hours) was calculated beginning with the first chinook salmon captured and the tenth fish captured for coho, pink and chum salmon, to compensate for fishing time expended prior to the beginning of the salmon runs.

Catch Sampling

Commercial catch sampling goals were 500 chinook salmon from both Unalakleet and Shaktoolik subdistricts, 300 coho salmon and 1,500 chum salmon from Unalakleet subdistrict. Chum salmon were to be collected from June 25 to July 28 at the rate of 150 samples per period.

Length, size and weight data were collected from all chinook, coho and chum salmon caught in the the test nets. Pink salmon were only counted. Data were recorded on standard "mark sense" data entry forms. Scales were mounted on gum cards and pressed onto acetate cards. Aging was done by Gary Kneupfer and Charles Lean in Kotzebue by projecting the scale impressions on a microfische reader. Three and sometimes four scales were taken from each fish to compensate for regenerated and unreadable scales. Catch sampling was done outside the bunk house and the catch distributed to subsistence users soon after.

Subsistence Survey

One to six subsistence fishermen were interviewed daily from June 21 to July 3 as an additional index of the chinook run. Fishermen were chosen for reliability and willingness to share catch information. Mean daily catches and location were compared daily in an effort to track the movement and magnitude of the chinook run.

Results

Test Fishing

A total of 49 chinook (49% male, 51% female), 134 coho (55% male, 45% female), 719 pink and 774 chum (63% male, 37% female) salmon were captured in the test nets from June 16 to September 10. Based on daily CPUE, peak salmon passage occurred on June 25 for chinook salmon, August 5 for coho salmon, July 1 for pink salmon and July 23 for chum salmon. Daily CPUE data is presented in Appendix Tables 1-4.

Appendix Tables 1-4 show the standardized cumulative CPUE for salmon caught in the Unalakleet River test 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 Nanouk family.

Comparative statistics show that chinook and coho salmon catches and CPUE are the second lowest since 1982. Pink and chum salmon cumulative CPUE for 1986 indicates a normal catch rate when compared to past years of the project.

Catch Sampling

Commercial catch sampling produced 467 Unalakleet and 138 Shaktoolik usable chinook samples. Two hundred twenty-three coho and 1,352 chum salmon samples were also collected from the Unalakleet

subdistrict. Tables 1-9 presents the age, sex and length data collected by project staff in both the commercial and test gear types.

Subsistence Survey

The inseason subsistence surveys conducted during the chinook salmon subsistence fishery show fishing effort peaking in late June. A maximum of 21 nets were observed in the river on June 21 22 and 27 (Table 10).

The high level of fishing effort as catch rates rapidly declined indicates that some subsistence fishermen had not satisfied their needs and would have liked to have caught more chinook salmon.

Discussion

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

Literature Cited

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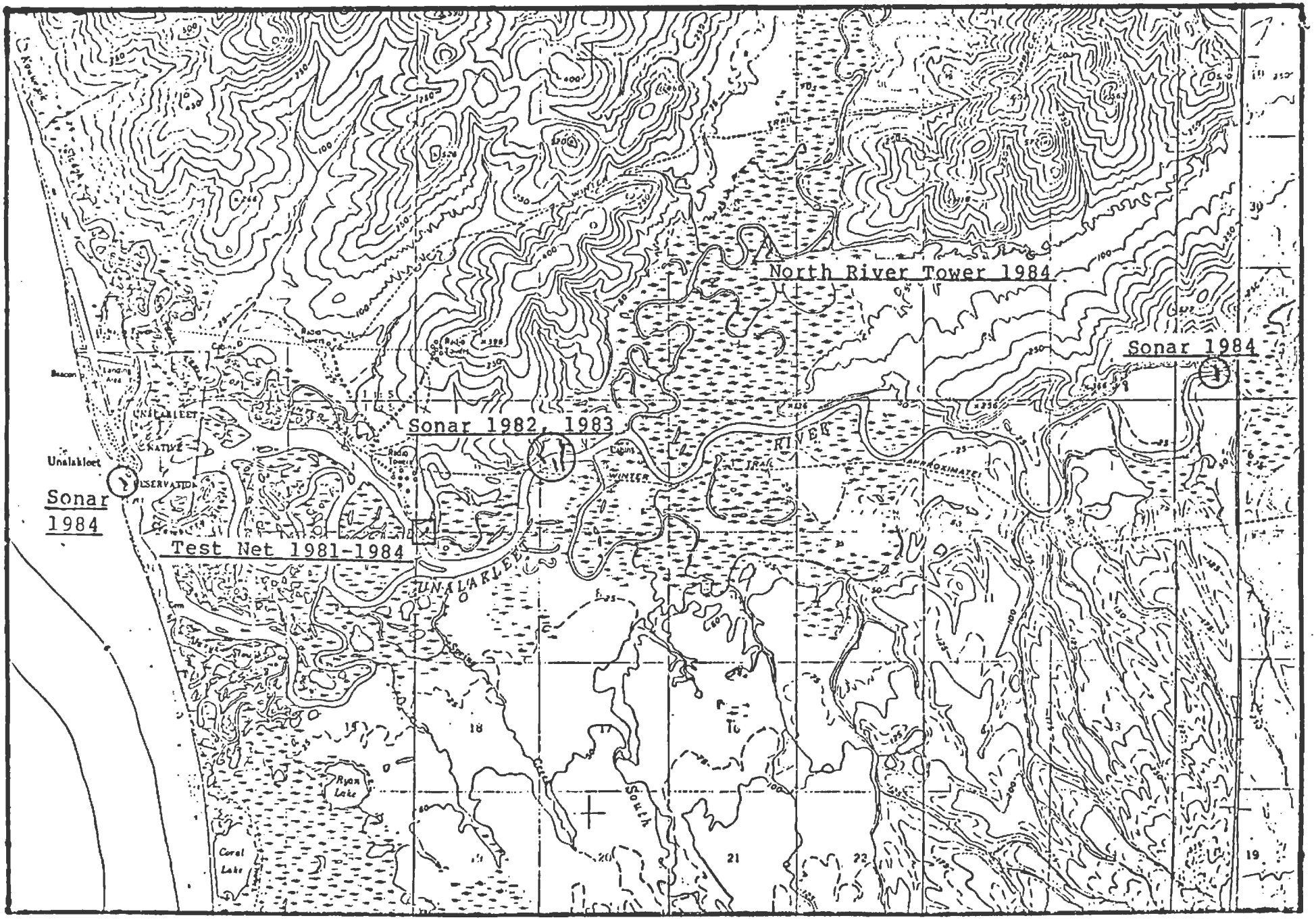

Figure 1. Unalakleet Escapement Project Site Locations.

Table 1. Catch, age, sex and length (mm) of chinook salmon from the Unalakleet commercial harvest, 1986.

	Age Class						
	1.2	1.3	1.4	2.3	1.5	2.4	Total
Females	0	153	1,254	9	845	9	2,270
Percent	0.0	3.4	27.9	0.2	18.8	0.2	50.5
Mean Length	0.0	800.9	867.0	790.0	902.7	860.0	
Std. Error 1/	0.0	12.7	4.5	0.0	4.3	0.0	
Sample Size	0	16	130	1	88	1	
Males	94	683	989	9	449	0	2,224
Percent	2.1	15.2	22.0	0.2	10.0	0.0	49.5
Mean Length	569.5	765.7	852.3	830.0	924.4	0.0	
Std. Error 1/	11.5	8.5	7.7	0.0	7.7	0.0	
Sample Size	10	71	103	1	47	0	
Sexes Combined	94	836	2,243	18	1,294	9	4,494
Percent	2.1	18.6	49.9	0.4	28.8	0.2	100.0
Std. Error 2/	0.7	1.8	2.3	0.3	2.1	0.2	
Mean Length	569.5	772.2	860.5	810.0	910.3	860.0	
Std. Error 1/	11.5	7.5	4.2	20.0	3.98	0.0	
Sample Size	10	87	233	2	135	1	467

1/ Standard error of mean length.
2/ Standard error of age class percent.

Table 2. Catch, age, sex and length (mm) of chinook salmon from the Shaktoolik commercial harvest, 1986.

	Age Class				
	1.2	1.3	1.4	1.5	Total
Females	113	2,451	2,806	355	5,725
Percent	0.7	15.2	17.4	2.2	35.5
Mean Length	570.0	581.2	601.5	586.7	
Std. Error 1/	0.0	3.8	3.9	13.0	
Sample Size	1	21	24	3	49
Males	0	5,144	5,144	113	10,401
Percent	0.0	31.9	31.9	0.7	64.5
Mean Length	0.0	586.3	608.5	560.0	
Std. Error 1/	0.0	3.3	3.9	0.0	
Sample Size	0	44	44	1	89
Sexes Combined	113	7,595	7,950	468	16,126
Percent	0.7	47.1	49.3	2.9	100.0
Std. Error 2/	0.7	4.3	4.3	1.4	
Mean Length	570.0	584.6	606.0	580.0	
Std. Error 1/	0.0	2.6	2.9	11.4	
Sample Size	1	65	68	4	138

1/ Standard error of mean length.
2/ Standard error of age class percent.

Table 3. Age, sex and length (mm) of chinook salmon taken by 149 mm (5 7/8 in) mesh gill net in the Unalakleet test fishery, 1986.

	Age Class				
	1.2	1.3	1.4	1.5	Total
Females					
Percent	0.0	6.4	23.4	21.3	51.1
Mean Length	0.0	845.0	851.8	890.5	
Std. Error 1/	0.0	20.2	16.7	17.1	
Sample Size	0	3	11	10	24
Males					
Percent	2.1	31.9	8.5	6.4	48.9
Mean Length	560.0	692.0	846.3	960.0	
Std. Error 1/	0.0	24.4	43.0	11.6	
Sample Size	1	15	4	3	23
Sexes Combined					
Percent	2.1	38.3	31.9	27.7	100.0
Std. Error 2/	2.1	7.2	6.9	6.6	
Mean Length	560.0	717.5	850.3	906.5	
Std. Error 1/	0.0	24.6	15.9	15.7	
Sample Size	1	18	15	13	47

1/ Standard error of mean length.
2/ Standard error of age class percent.

Table 4. Age, sex and length (mm) of coho salmon from the Unalakleet commercial harvest, 1986.

	Age Class			
	1.1	2.1	3.1	Total
Females	82	7,573	638	8,293
Percent	0.4	36.8	3.1	40.3
Mean Length	545.0	559.9	557.9	
Std. Error 1/	0.0	3.2	11.2	
Sample Size	1	82	7	90
Males	0	11,628	638	12,266
Percent	0.0	56.5	3.1	59.6
Mean Length	0.0	556.6	568.6	
Std. Error 1/	0.0	3.3	13.9	
Sample Size	0	126	7	133
Sexes Combined	82	19,201	1,297	20,580
Percent	0.4	93.3	6.3	100.0
Std. Error 2/	0.4	1.7	0.6	
Mean Length	545.0	557.9	563.2	
Std. Error 1/	0.0	2.4	8.7	
Sample Size	1	208	14	223

1/ Standard Error of mean length.
2/ Standard Error of age class percent.

Table 5. Age, sex and length (mm) of coho salmon taken by 149 mm (5 7/8") mesh gill net in the Unalakleet Unalakleet test fishery, 1986.

	Age Class			
	2.1	2.2	3.1	Total
Females				
Percent	40.6	2.3	2.3	45.2
Mean Length	575.6	553.3	573.3	
Std. Error 1/	4.5	9.3	12.02	
Sample Size	52	3	3	58
Males				
Percent	52.3	1.6	0.8	54.7
Mean Length	571.9	602.5	575.0	
Std. Error 1/	3.9	17.5	0.0	
Sample Size	67	2	1	70
Sexes Combined				
Percent	93.0	3.9	3.1	100.0
Std. Error 2/	2.3	1.7	1.5	
Mean Length	573.5	573.0	573.8	
Std. Error 1/	3.0	14.2	8.5	
Sample Size	119	5	4	128

1/ Standard error of mean length.
2/ Standard error of age class percent.

Table 6. Length (mm) by age and sex of chum salmon taken in the Unalakleet commercial gill net fishery, 1986.

	Age Class			
	0.2	0.3	0.4	0.5
Females				
Mean Length	520.0	571.8	587.2	592.0
Std. Error	0.0	1.5	1.3	8.2
Sample Size	1	270	356	15
Males				
Mean Length	538.3	585.9	610.4	615.0
Std. Error	13.6	1.4	1.6	9.6
Sample Size	3	357	330	20
Sexes Combined				
Mean Length	533.8	579.9	598.3	605.1
Std. Error	10.7	1.0	1.1	6.7
Sample Size	4	627	686	35

Table 7. Catch, age and sex of chum salmon, by sample stratum, from the Unalakleet commercial fishery, 1986.

		Brood Year and Age Group				
		1982	1981	1980	1979	
		0.2	0.3	0.4	0.5	Total
Stratum Dates: 6/23-7/13 Sample Dates: 7/05-7/11 Sample Size: 503		Commercial Periods 1-6				
Female	Catch	0	2,165	2,656	92	4,913
	Percent	0.0	14.1	17.3	0.6	32.0
Male	Catch	61	5,528	4,545	307	10,441
	Percent	0.4	36.0	29.6	2.0	68.0
Total	Catch	61	7,693	7,201	399	15,354
	Percent	0.4	50.1	46.9	2.6	100.0
	Std. Error	0.3	2.2	2.2	0.7	
Stratum Dates: 7/14-7/20 Sample Dates: 7/15-7/18 Sample Size: 392		Commercial Periods 7-8				
Female	Catch	0	1,542	2,927	119	4,588
	Percent	0.0	16.8	31.9	1.3	50.0
Male	Catch	0	2,248	2,221	119	4,588
	Percent	0.0	24.5	24.2	1.3	50.0
Total	Catch	0	3,790	5,148	239	9,177
	Percent	0.0	41.3	56.1	2.6	100.0
	Std. Error	0.0	2.5	2.5	0.8	

Table 7. Catch, age and sex of chum salmon, by sample stratum, from the Unalakleet commercial fishery, 1986 (continued).

		Brood Year and Age Group				
		1982	1981	1980	1979	
		0.2	0.3	0.4	0.5	Total
Stratum Dates: 7/21-9/07 Sample Dates: 7/22-8/01 Sample Size: 457		Commercial Periods 9-22				
Female	Catch	11	1,661	1,804	86	3,562
	Percent	0.2	29.1	31.6	1.5	62.4
Male	Catch	11	999	1,073	63	2,146
	Percent	0.2	17.5	18.8	1.1	37.6
Total	Catch	23	2,660	2,877	148	5,708
	Percent	0.4	46.6	50.4	2.6	100.0
	Std. Error	0.3	2.3	2.3	0.7	
Stratum Dates: 6/23-9/07 Sample Dates: 7/05-8/01 Sample Size: 1,352		SEASON TOTAL				
Female	Catch	11	5,368	7,387	297	13,063
	Percent	0.0	17.8	24.4	1.0	43.2
Male	Catch	72	8,774	7,839	489	17,174
	Percent	0.2	29.0	25.9	1.6	56.8
Total	Catch	84	14,142	15,226	786	30,238
	Percent	0.3	46.8	50.4	2.6	100.0
	Std. Error	0.1	1.4	1.4	0.4	

Table 8. Length (mm) of chum salmon taken by 149 mm (5 7/8 in) mesh gill net from the Unalakleet gillnet test fishery, 1986.

	Age Class			
	0.2	0.3	0.4	0.5
Females				
Mean Length	575.0	572.4	593.7	590.0
Std. Error	20.0	4.0	1.8	6.2
Sample Size	2	116	158	6
Males				
Mean Length	525.0	589.9	611.9	617.7
Std. Error	5.0	1.7	1.9	9.6
Sample Size	2	238	227	11
Sexes Combined				
Mean Length	550.0	584.1	604.4	607.9
Std. Error	16.7	1.8	1.4	7.2
Sample Size	4	354	385	17

Table 9. Age and sex of chum salmon, by sample stratum, taken with 149 mm (5 7/8 in) mesh gill net in the Unalakleet test fishery, 1986.

		Brood Year and Age Group				
		1982	1981	1980	1979	
		0.2	0.3	0.4	0.5	Total
Stratum Dates: 7/08-7/22						
Sample Size: 378						
Female	Percent	0.0	9.8	16.9	0.5	27.2
	Sample Size	0	37	64	2	103
Male	Percent	0.0	35.4	36.0	1.3	72.7
	Sample Size	0	134	136	5	275
Total	Percent	0.0	45.2	52.9	1.9	100.0
	Std. Error	0.0	2.6	2.6	0.7	
	Sample Size	0	171	200	7	378
Stratum Dates: 7/23-8/20						
Sample Size: 382						
Female	Percent	0.5	20.7	24.6	1.0	46.8
	Sample Size	2	79	94	4	179
Male	Percent	0.5	27.3	23.8	1.6	53.2
	Sample Size	2	104	91	6	203
Total	Percent	1.0	47.9	48.4	2.6	100.0
	Std. Error	0.5	2.6	2.6	0.8	
	Sample Size	4	183	185	10	382
Stratum Dates: 7/08-8/20			SEASON TOTAL			
Sample Size: 760						
Female	Percent	0.3	15.3	20.8	0.8	37.1
	Sample Size	2	116	158	6	282
Male	Percent	0.3	31.3	29.9	1.4	62.9
	Sample Size	2	238	227	11	478
Total	Percent	0.5	46.6	50.7	2.2	100.0
	Std. Error	0.3	1.8	1.8	0.5	
	Sample Size	4	354	385	17	760

Table 10. Unalakleet River subsistence effort 1982-1986.

	1982			1983			1984			1985				1986			
Date	# fish-ermen	# king	daily mean	# fish-ermen	# king	daily mean	# fish-ermen	# king	daily mean	# fish-ermen	# king	daily mean	observed nets	# fish-ermen	# king	daily mean	observed nets
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											
9/19	6	9	1.5	4	29	7.2											14
6/20	6	10	1.7	4	17	4.2											19
6/21	5	10	2.0	4	11	2.8								6	27	4.5	21
6/22	4	3	.8	4	21	5.2								6	22	3.7	21
6/23	4	7	1.8	4	24	6.0	3	1	0.3					5	13	2.6	16
6/24	4	6	1.5	4	25	6.2	4	5	1.2					5	34	6.8	16
6/25	4	13	3.2	3	6	2.0	5	18	3.6					6	93	15.5	15
6/26	4	2	0.5	3	14	4.7	5	13	2.6	4	1	0.2	16	3	87	29.0	20
6/27	3	3	1.0	3	15	5.0	4	20	5.0	4	2	0.5	16	3	38	12.7	21
6/28	3	9	3.0	4	14	3.5	5	66	13.2	4	2	0.5	19	1	9	9.	19
6/29	3	8	2.7	4	10	2.5	5	22	4.4	4	9	2.2	19	5	8	1.6	16
6/30	4	7	1.8	4	6	1.5	5	25	5.0	5	78	15.6	16	4	9	2.2	15
7/01	5	16	3.2				4	33	8.2	3	37	12.3	13	4	11	2.7	10
7/02	6	41	6.8				3	41	13.7	3	19	6.3	12	3	5	1.7	7
7/03	5	73	14.6				2	16	8.0	3	19	6.3	11	2	2	1.0	6
7/04	4	40	10.0				2	9	4.5	3	20	6.7	12				
7/05	3	24	8.0				2	16	8.0	4	31	7.8	13				
7/06	3	27	9.0							4	5	1.2	12				
7/07	4	21	5.2							3	14	4.7					
7/08	3	3	1.0							3	43	14.3	11				
7/09	3	16	5.3							4	44	11.0	10				
7/10	3	2	0.7							3	12	4.0	11				
7/11	4	10	2.5							3	7	2.3	9				
7/12	2	2	1.0							3	7	2.3	10				
7/13	2	0	0.0							3	9	3.0	11				
7/14										4	3	0.8	10				
7/15										3	11	3.7	12				
	853.8	244	68.7			767.8	175		41.3								
Mean day of catch			8/21			Mean day of catch			8/24								

Appendix Table 1. Unalakleet test net catches of chinook salmon in 5 7/8" gear, 1982 - 1986.

	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					chinook 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)	Hours	Catch	CPUE	Cum. CPUE	CP(C)
5/26			0.00	0.00	0.000			0.00	0.00	0.000			0.00	0.00	0.000
5/27			0.00	0.00	0.000			0.00	0.00	0.000			0.00	0.00	0.000
5/28			0.00	0.00	0.000			0.00	0.00	0.000			0.00	0.00	0.000
5/29			0.00	0.00	0.000			0.00	0.00	0.000			0.00	0.00	0.000
5/30			0.00	0.00	0.000			0.00	0.00	0.000			0.00	0.00	0.000
6/01			0.00	0.00	0.000			0.00	0.00	0.000			0.00	0.00	0.000
6/02			0.00	0.00	0.000			0.00	0.00	0.000			0.00	0.00	0.000
6/03			0.00	0.00	0.000			0.00	0.00	0.000			0.00	0.00	0.000
6/04			0.00	0.00	0.000			0.00	0.00	0.000			0.00	0.00	0.000
6/05			0.00	0.00	0.000			0.00	0.00	0.000			0.00	0.00	0.000
6/06			0.00	0.00	0.000			0.00	0.00	0.000			0.00	0.00	0.000
6/07			0.00	0.00	0.000	12.6	1	0.40	0.40	0.056			0.00	0.00	0.000
6/08			0.00	0.00	0.000	12.7	1	0.39	0.40	0.111			0.00	0.00	0.000
9/09			0.00	0.00	0.000			0.00	0.40	0.111			0.00	0.00	0.000
6/10			0.00	0.00	0.000	11.4	0	0.00	0.27	0.111			0.00	0.00	0.000
6/11			0.00	0.00	0.000			0.00	0.27	0.111			0.00	0.00	0.000
6/12			0.00	0.00	0.000	11.3	2	0.88	0.42	0.222			0.00	0.00	0.000
6/13			0.00	0.00	0.000			0.00	0.42	0.222			0.00	0.00	0.000
6/14			0.00	0.00	0.000	11.9	2	0.84	0.50	0.333			0.00	0.00	0.000
6/15			0.00	0.00	0.000	11.6	1	0.43	0.49	0.389			0.00	0.00	0.000
6/16	24.0	1	0.21	0.21	0.045			0.00	0.49	0.389			0.00	0.00	0.000
6/17			0.00	0.21	0.045	11.6	2	0.86	0.54	0.500			0.00	0.00	0.000
6/18	24.0	5	1.04	0.63	0.273			0.00	0.54	0.500			0.00	0.00	0.000
6/19			0.00	0.63	0.273	11.8	0	0.00	0.47	0.500			0.00	0.00	0.000
6/20	12.0	4	1.67	0.83	0.455			0.00	0.47	0.500			0.00	0.00	0.000
6/21			0.00	0.83	0.455	11.8	1	0.42	0.47	0.556			0.00	0.00	0.000
6/22	12.0	2	0.83	0.83	0.545	11.7	1	0.43	0.46	0.611			0.00	0.00	0.000
6/23	12.0	2	0.83	0.83	0.636			0.00	0.46	0.611			0.00	0.00	0.000
6/24			0.00	0.83	0.636	11.6	0	0.00	0.42	0.611			0.00	0.00	0.000
6/25	11.9	1	0.42	0.78	0.682			0.00	0.42	0.611			0.00	0.00	0.000
6/26			0.00	0.78	0.682	11.9	2	0.84	0.46	0.722	24.2	1	0.21	0.21	0.024
6/27	12.1	2	0.83	0.79	0.773			0.00	0.46	0.722			0.00	0.21	0.248
6/28			0.00	0.79	0.773	11.8	1	0.42	0.46	0.778	24.5	4	0.82	0.51	0.122
6/29	12.2	1	0.41	0.75	0.818	11.5	2	0.87	0.48	0.889			0.00	0.51	0.122
6/30	13.5	2	0.74	0.75	0.909			0.00	0.48	0.889	24.4	6	1.23	0.75	0.268
7/01			0.00	0.75	0.909	11.9	1	0.42	0.48	0.944			0.00	0.75	0.268
7/02	12.0	2	0.83	0.75	1.000			0.00	0.48	0.944			0.00	0.75	0.268
7/03			0.00	0.75	1.000	11.9	1	0.42	0.48	1.000	23.8	7	1.47	0.93	0.439
7/04	13.5	0	0.00	0.69	1.000			0.00	0.48	1.000			0.00	0.93	0.439
7/05			0.00	0.69	1.000	11.9	0	0.00	0.45	1.000	24.0	9	1.88	1.12	0.659
7/06	12.0	0	0.00	0.64	1.000	12.0	0	0.00	0.42	1.000			0.00	1.12	0.659
7/07			0.00	0.64	1.000			0.00	0.42	1.000	24.1	13	2.70	1.38	0.976
7/08			0.00	0.64	1.000			0.00	0.42	1.000			0.00	1.38	0.976
7/09			0.00	0.64	1.000			0.00	0.42	1.000	24.1	1	0.21	1.21	1.000
7/10			0.00	0.64	1.000			0.00	0.42	1.000			0.00	1.21	1.000
7/11			0.00	0.64	1.000			0.00	0.42	1.000			0.00	1.21	1.000
7/12			0.00	0.64	1.000			0.00	0.42	1.000	23.9	0	0.00	1.06	1.000
7/13			0.00	0.64	1.000			0.00	0.42	1.000			0.00	1.06	1.000
7/14			0.00	0.64	1.000			0.00	0.42	1.000	24.1	0	0.00	0.94	1.000
7/15			0.00	0.64	1.000			0.00	0.42	1.000			0.00	0.94	1.000
7/16			0.00	0.64	1.000			0.00	0.42	1.000			0.00	0.94	1.000
7/17			0.00	0.64	1.000			0.00	0.42	1.000	24.0	0	0.00	0.85	1.000
7/18			0.00	0.64	1.000			0.00	0.42	1.000			0.00	0.85	1.000
7/19			0.00	0.64	1.000			0.00	0.42	1.000			0.00	0.85	1.000
7/20			0.00	0.64	1.000			0.00	0.42	1.000			0.00	0.85	1.000
7/21			0.00	0.64	1.000			0.00	0.42	1.000			0.00	0.85	1.000
7/22			0.00	0.64	1.000			0.00	0.42	1.000			0.00	0.85	1.000
7/23			0.00	0.64	1.000			0.00	0.42	1.000			0.00	0.85	1.000
7/24			0.00	0.64	1.000			0.00	0.42	1.000			0.00	0.85	1.000
7/25			0.00	0.64	1.000			0.00	0.42	1.000			0.00	0.85	1.000
													0.00	0.85	1.000
	171.2	22.0	7.8			212.9	18.0	7.6			241.1	41.0	8.56		
	Mean day of catch 6/23					Mean day of catch 6/20					Mean day of catch 7/03				

Appendix Table 1. Unalakleet test net catches of chinook salmon in 5 7/8" gear, 1982-1986 (continued).

	chinook salmon catch, 1985 counts begin the day the first salmon was caught					chinook 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)
5/26			0.00	0.00	0.000			0.00	0.00	
5/27			0.00	0.00	0.000			0.00	0.00	
5/28			0.00	0.00	0.000			0.00	0.00	
5/29			0.00	0.00	0.000			0.00	0.00	
5/30			0.00	0.00	0.000			0.00	0.00	
5/31			0.00	0.00	0.000			0.00	0.00	
6/01			0.00	0.00	0.000			0.00	0.00	
6/02			0.00	0.00	0.000			0.00	0.00	
6/03			0.00	0.00	0.000			0.00	0.00	
6/04			0.00	0.00	0.000			0.00	0.00	
6/05			0.00	0.00	0.000			0.00	0.00	
6/06			0.00	0.00	0.000			0.00	0.00	
6/07			0.00	0.00	0.000			0.00	0.00	
6/08			0.00	0.00	0.000			0.00	0.00	
6/09			0.00	0.00	0.000			0.00	0.00	
6/10			0.00	0.00	0.000			0.00	0.00	
6/11			0.00	0.00	0.000			0.00	0.00	
6/12			0.00	0.00	0.000			0.00	0.00	
6/13			0.00	0.00	0.000			0.00	0.00	
6/14			0.00	0.00	0.000			0.00	0.00	
6/15			0.00	0.00	0.000			0.00	0.00	
6/16			0.00	0.00	0.000			0.00	0.00	
6/17			0.00	0.00	0.000	23.9	1	0.21	0.21	0.020
6/18			0.00	0.00	0.000	24.2	2	0.41	0.31	0.061
6/19			0.00	0.00	0.000	24.1	3	0.62	0.42	0.122
6/20			0.00	0.00	0.000	24.0	2	0.42	0.42	0.163
6/21			0.00	0.00	0.000	23.9	2	0.42	0.42	0.204
6/22			0.00	0.00	0.000	24.3	2	0.41	0.42	0.245
6/23			0.00	0.00	0.000	23.9	2	0.42	0.42	0.286
6/24			0.00	0.00	0.000	23.7	2	0.42	0.42	0.327
6/25			0.00	0.00	0.000	24.0	4	0.83	0.46	0.408
6/26	23.0	1	0.22	0.22	0.006	25.0	6	1.20	0.54	0.531
6/27	24.5	0	0.00	0.11	0.006	24.0	1	0.21	0.51	0.551
6/28	23.7	0	0.00	0.07	0.006	12.1	0	0.00	0.49	0.551
6/29	24.1	2	0.41	0.16	0.018	0.0	0	0.00	0.49	0.551
6/30	23.7	18	3.80	0.88	0.123	24.0	0	0.00	0.45	0.551
7/01	9.8	8	4.08	1.13	0.170	24.1	0	0.00	0.42	0.551
7/02	7.0	10	7.14	1.44	0.228	23.9	0	0.00	0.39	0.551
7/03	24.0	13	2.71	1.63	0.304	24.1	0	0.00	0.36	0.551
7/04	23.8	14	2.94	1.80	0.386	23.9	0	0.00	0.34	0.551
7/05	23.9	9	1.88	1.81	0.439	12.2	1	0.41	0.34	0.571
7/06	9.2	2	1.09	1.78	0.450	0.0	0	0.00	0.34	0.571
7/07			0.00	1.78	0.450	24.4	4	0.82	0.37	0.653
7/08	23.2	22	4.74	2.06	0.579	24.5	2	0.41	0.37	0.694
7/09	24.1	14	2.90	2.14	0.661	23.8	2	0.42	0.37	0.735
7/10	23.9	13	0.00	2.19	0.737	23.9	9	0.00	0.44	0.918
7/11	24.1	5	1.04	2.10	0.766	24.2	3	0.62	0.45	0.980
7/12	24.4	5	1.02	2.02	0.795	12.4	0	0.00	0.44	0.980
7/13	8.6	1	0.58	1.99	0.801	0.0	0	0.00	0.44	0.980
7/14			0.00	1.99	0.801	24.6	0	0.00	0.42	0.980
7/15	24.3	7	1.44	1.95	0.842	23.0	1	0.22	0.42	1.000
7/16	23.9	8	1.67	1.93	0.889			0.00	0.42	1.000
7/17	24.3	5	1.03	1.88	0.918			0.00	0.42	1.000
7/18	33.8	3	0.44	1.77	0.936			0.00	0.42	1.000
7/19	24.1	4	0.83	1.72	0.959			0.00	0.42	1.000
7/20			0.00	1.72	0.959			0.00	0.42	1.000
7/21			0.00	1.72	0.959			0.00	0.42	1.000
7/22	24.2	3	0.62	1.67	0.977			0.00	0.42	1.000
7/23	24.9	1	0.20	1.60	0.982			0.00	0.42	1.000
7/24	23.1	2	0.43	1.55	0.994			0.00	0.42	1.000
7/25	23.7	0	0.00	1.49	0.994			0.00	0.42	1.000
7/26	24.6	1	0.20	1.43	1.000			0.00	0.42	1.000
	595.9	171.0	41.4			590.1	49.0	8.5		
	Mean day of catch 7/08					Mean day of catch 6/30				

Appendix Table 2. Unalakleet test net, 1981-1986.

	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					coho salmon catch, 1983 count begins the day the tenth salmon was caught				
Date	Hours	Catch	CPUE	Cum. CPUE	Cum. Prop	Hours	Catch	CPUE	Cum. CPUE	Cum. Prop	Hours	Catch	CPUE	Cum. CPUE	Cum. Prop
7/25			0.00	0.00	0.000			0.00	0.00	0.000			0.00	0.00	0.000
7/26			0.00	0.00	0.000			0.00	0.00	0.000			0.00	0.00	0.000
7/27			0.00	0.00	0.000			0.00	0.00	0.000			0.00	0.00	0.000
7/28			0.00	0.00	0.000			0.00	0.00	0.000			0.00	0.00	0.000
7/29			0.00	0.00	0.000			0.00	0.00	0.000			0.00	0.00	0.000
7/30	24.0	6	0.83	0.83	0.019			0.00	0.00	0.000			0.00	0.00	0.000
7/31	24.0	6	0.83	0.83	0.039			0.00	0.00	0.000			0.00	0.00	0.000
8/01	24.0	3	0.42	0.69	0.048	3.0	9	15.00	15.00	0.038			0.00	0.00	0.000
8/02	24.0	0	0.00	0.52	0.048	4.4	3	3.41	8.11	0.051			0.00	0.00	0.000
8/03	24.0	3	0.42	0.50	0.058			0.00	8.11	0.051			0.00	0.00	0.000
8/04	24.0	0	0.00	0.42	0.058	13.2	8	3.03	4.85	0.085			0.00	0.00	0.000
8/05	24.0	0	0.00	0.36	0.058	7.3	6	4.11	4.66	0.111	11.8	1	0.34	0.34	0.005
8/06	24.0	0	0.00	0.31	0.058			0.00	4.66	0.111			0.00	0.34	0.005
8/07	24.0	3	0.42	0.32	0.068			0.00	4.66	0.111	12.8	4	1.25	0.81	0.027
8/08	24.0	0	0.00	0.29	0.068	12.6	9	3.57	4.32	0.149			0.00	0.81	0.027
8/09	24.0	9	1.25	0.38	0.097	12.9	0	0.00	3.28	0.149	25.7	14	2.18	1.51	0.103
8/10	24.0	3	0.42	0.38	0.106			0.00	3.28	0.149	12.5	21	6.72	2.55	0.217
8/11	24.0	0	0.00	0.35	0.106	12.2	8	3.28	3.28	0.183			0.00	2.55	0.217
8/12	24.0	3	0.42	0.36	0.116	12.5	17	6.80	3.84	0.255	1.3	0	0.00	2.50	0.217
8/13	24.0	3	0.42	0.36	0.126			0.00	3.84	0.255			0.00	2.50	0.217
8/14	24.0	5	0.69	0.38	0.142			0.00	3.84	0.255	10.7	12	4.49	2.78	0.283
8/15	24.0	17	2.36	0.50	0.197	12.3	18	7.32	4.31	0.332			0.00	2.78	0.283
8/16	24.0	36	5.00	0.75	0.313	12.2	5	2.05	4.04	0.353	12.2	2	0.66	2.48	0.293
8/17	24.0	27	3.75	0.91	0.400			0.00	4.04	0.353	12.3	6	1.95	2.42	0.326
8/18	24.0	21	2.92	1.01	0.468	12.0	5	2.08	3.84	0.374	11.8	1	0.34	2.20	0.332
8/19	24.0	20	2.78	1.09	0.532	12.2	1	0.41	3.51	0.379			0.00	2.20	0.332
8/20	24.0	10	1.39	1.10	0.565			0.00	3.51	0.379			0.00	2.20	0.332
8/21	24.0	17	2.36	1.16	0.619			0.00	3.51	0.379	11.2	6	2.14	2.19	0.364
8/22	24.0	10	1.39	1.17	0.652	12.2	6	2.46	3.42	0.404			0.00	2.19	0.364
8/23	24.0	13	1.81	1.19	0.694	11.8	2	0.85	3.22	0.413	12.0	2	0.67	2.06	0.375
8/24	24.0	2	0.28	1.16	0.700			0.00	3.22	0.413	11.5	2	0.70	1.95	0.386
8/25	24.0	5	0.69	1.14	0.716	12.1	3	1.24	3.07	0.426			0.00	1.95	0.386
8/26	24.0	13	1.81	1.17	0.758	12.2	0	0.00	2.86	0.426	11.5	5	1.74	1.93	0.413
8/27	24.0	5	0.69	1.15	0.774			0.00	2.86	0.426			0.00	1.93	0.413
8/28	24.0	4	0.56	1.13	0.787			0.00	2.86	0.426	11.9	0	0.00	1.80	0.413
8/29	24.0	1	0.14	1.10	0.790	12.5	11	4.40	2.96	0.472			0.00	1.80	0.413
8/30	24.0	0	0.00	1.06	0.790	11.3	5	2.21	2.92	0.494	11.9	4	1.34	1.77	0.435
8/31	24.0	3	0.42	1.04	0.800			0.00	2.92	0.494	11.7	1	0.34	1.68	0.440
9/01	24.0	2	0.28	1.02	0.806	12.2	6	2.46	2.89	0.519			0.00	1.68	0.440
9/02	24.0	1	0.14	1.00	0.810	11.5	2	0.87	2.79	0.528	12.3	5	1.63	1.68	0.467
9/03	24.0	2	0.28	0.98	0.816			0.00	2.79	0.528			0.00	1.68	0.467
9/04	24.0	3	0.42	0.96	0.826			0.00	2.79	0.528	47.9	15	1.25	1.60	0.549
9/05	24.0	6	0.83	0.96	0.845	11.6	8	3.45	2.82	0.562			0.00	1.60	0.549
9/06	24.0	6	0.83	0.95	0.865	9.8	3	1.53	2.77	0.574	23.8	11	1.85	1.62	0.609
9/07	24.0	3	0.42	0.94	0.874			0.00	2.77	0.574	23.7	5	0.84	1.56	0.636
9/08	24.0	6	0.83	0.94	0.894	11.8	0	0.00	2.64	0.574	23.8	6	1.01	1.52	0.668
9/09	24.0	6	0.83	0.94	0.913			0.00	2.64	0.574	24.2	10	1.65	1.53	0.723
9/10	24.0	9	1.25	0.94	0.942	28.5	13	2.28	2.60	0.630	24.2	3	0.50	1.46	0.739
9/11	24.0	3	0.42	0.93	0.952	23.5	14	2.98	2.63	0.689	24.2	2	0.33	1.39	0.750
9/12	24.0	3	0.42	0.92	0.961	25.6	8	1.56	2.55	0.723	24.1	8	1.33	1.39	0.793
9/13	24.0	6	0.83	0.92	0.981	25.6	5	0.98	2.44	0.745			0.00	1.39	0.793
9/14	24.0	0	0.00	0.90	0.981	21.3	6	1.41	2.38	0.770	22.7	14	2.47	1.44	0.870
9/15	24.0	0	0.00	0.88	0.981	26.7	7	1.31	2.31	0.800	24.2	9	1.49	1.44	0.918
9/16	24.0	3	0.42	0.87	0.990	22.2	5	1.13	2.25	0.821	21.0	3	0.57	1.41	0.935
9/17	24.0	0	0.00	0.85	0.990	24.8	10	2.02	2.24	0.864	23.9	2	0.33	1.36	0.946
9/18	24.0	0	0.00	0.84	0.990	22.1	15	3.39	2.29	0.928	23.0	2	0.35	1.31	0.957
9/19	24.0	0	0.00	0.82	0.990	30.2	4	0.66	2.19	0.945			0.00	1.31	0.957
9/20	24.0	3	0.42	0.81	1.000	19.1	0	0.00	2.11	0.945	48.9	4	0.33	1.23	0.978
9/21			0.00	0.81	1.000	26.2	4	0.76	2.05	0.962	24.0	3	0.50	1.20	0.995
9/22			0.00	0.81	1.000	27.6	6	1.09	2.00	0.987	24.2	0	0.00	1.16	0.995
9/23			0.00	0.81	1.000	20.2	2	0.50	1.95	0.996	23.4	1	0.17	1.12	1.000
9/24			0.00	0.81	1.000	23.8	1	0.21	1.89	1.000			0.00	1.12	1.000
9/25			0.00	0.81	1.000			0.00	1.89	1.000			0.00	1.12	1.000
9/26			0.00	0.81	1.000			0.00	1.89	1.000			0.00	1.12	1.000
9/27			0.00	0.81	1.000			0.00	1.89	1.000			0.00	1.12	1.000
9/28			0.00	0.81	1.000			0.00	1.89	1.000			0.00	1.12	1.000
9/29			0.00	0.81	1.000			0.00	1.89	1.000			0.00	1.12	1.000
9/30			0.00	0.81	1.000			0.00	1.89	1.000			0.00	1.12	1.000
	1272.0	310	43.06			623.2	235	90.80			656.3	184	41.44		
	Mean day of catch 8/22					Mean day of catch 8/29					Mean day of catch 8/30				

Appendix Table 2. Unalakleet test net, 1981-1986 (continued).

	coho salmon catch, 1984 counts begin the day the tenth salmon was caught					coho salmon catch, 1985 counts begin the day the tenth salmon was caught					coho salmon catch, 1986 counts begin the day the tenth salmon was caught				
Date	Hours	Catch	CPUE	Cum. CPUE	Cum. Prop	Hours	Catch	CPUE	Cum. CPUE	Cum. Prop	Hours	Catch	CPUE	Cum. CPUE	CP(C)
7/25			0.00	0.00	0.000			0.00	0.00	0.000			0.00	0.00	
7/26			0.00	0.00	0.000			0.00	0.00	0.000			0.00	0.00	
7/27			0.00	0.00	0.000			0.00	0.00	0.000			0.00	0.00	0.000
7/28			0.00	0.00	0.000			0.00	0.00	0.000	24.2	2	0.41	0.41	0.000
7/29			0.00	0.00	0.000			0.00	0.00	0.000	24.2	1	0.21	0.31	0.000
7/30	24.6	16	3.25	3.25	0.066			0.00	0.00	0.000	23.9	2	0.42	0.35	0.015
7/31	2.7	2	3.70	3.30	0.074			0.00	0.00	0.000	24.5	7	1.43	0.62	0.022
8/01	23.3	26	5.58	4.35	0.180			0.00	0.00	0.000			0.00	0.62	0.037
8/02			0.00	4.35	0.180			0.00	0.00	0.000			0.00	0.62	0.090
8/03	4.6	16	17.39	5.43	0.246	10.7	2	0.93	0.93	0.011			0.00	0.62	0.090
8/04			0.00	5.43	0.246			0.00	0.93	0.011			0.00	0.62	0.090
8/05			0.00	5.43	0.246	23.8	3	0.63	0.72	0.029	24.2	23	4.75	1.45	0.090
8/06	24.3	10	2.06	4.40	0.287	24.3	2	0.41	0.60	0.040	24.2	15	3.10	1.72	0.090
8/07			0.00	4.40	0.287	24.0	4	0.83	0.66	0.063	23.7	8	1.69	1.72	0.261
8/08	23.3	11	2.36	3.94	0.332	24.0	3	0.63	0.66	0.080	24.4	1	0.20	1.53	0.373
8/09			0.00	3.94	0.332	24.0	2	0.42	0.61	0.091	11.9	3	1.26	1.51	0.433
8/10	23.9	8	1.67	3.51	0.365	11.0	0	0.00	0.56	0.091			0.00	1.51	0.440
8/11			0.00	3.51	0.365			0.00	0.56	0.091	24.0	4	0.83	1.44	0.463
8/12			0.00	3.51	0.365	24.2	2	0.41	0.54	0.103	24.2	2	0.41	1.34	0.463
8/13	24.0	5	1.04	3.12	0.385	24.0	1	0.21	0.50	0.109	24.0	5	1.04	1.32	0.493
8/14	24.2	4	0.83	2.80	0.402	29.2	10	1.71	0.66	0.166	24.1	2	0.41	1.24	0.507
8/15	23.8	5	1.05	2.59	0.422	19.5	7	1.79	0.75	0.206	24.1	0	0.00	1.15	0.545
8/16			0.00	2.59	0.422	23.5	6	1.28	0.80	0.240	12.0	0	0.00	1.11	0.560
8/17	25.0	6	1.20	2.44	0.447	11.6	6	2.59	0.88	0.274			0.00	1.11	0.560
8/18			0.00	2.44	0.447			0.00	0.88	0.274	23.9	5	1.05	1.11	0.560
8/19			0.00	2.44	0.447	24.1	26	5.39	1.24	0.423	24.1	0	0.00	1.04	0.560
8/20	24.0	11	2.29	2.42	0.492	23.8	5	1.05	1.23	0.451	24.0	1	0.21	0.99	0.597
8/21			0.00	2.42	0.492	24.8	14	2.82	1.34	0.531	24.0	4	0.83	0.98	0.597
8/22	24.7	4	0.81	2.28	0.508	23.8	6	1.26	1.34	0.566	23.9	1	0.21	0.94	0.604
8/23	23.2	6	1.29	2.20	0.533	23.7	8	1.69	1.36	0.611	11.8	1	0.42	0.93	0.634
8/24	24.0	9	1.88	2.17	0.570	9.1	2	1.10	1.35	0.623			0.00	0.93	0.642
8/25			0.00	2.17	0.570			0.00	1.35	0.623	23.9	1	0.21	0.89	0.649
8/26			0.00	2.17	0.570	23.0	12	2.61	1.42	0.691	24.0	3	0.63	0.88	0.649
8/27	23.0	6	1.30	2.12	0.594	24.2	4	0.83	1.39	0.714	24.0	2	0.42	0.86	0.657
8/28	22.8	9	1.97	2.11	0.631	24.2	8	1.65	1.40	0.760			0.00	0.86	0.679
8/29	25.3	11	2.17	2.11	0.676	23.7	5	1.05	1.38	0.789	48.0	7	0.73	0.85	0.694
8/30	24.2	4	0.83	2.04	0.693	24.2	2	0.41	1.34	0.800	11.8	0	0.00	0.83	0.694
8/31	30.7	7	1.14	1.97	0.721	23.5	0	0.00	1.28	0.800			0.00	0.83	0.746
9/01			0.00	1.97	0.721			0.00	1.28	0.800			0.00	0.83	0.746
9/02			0.00	1.97	0.721			0.00	1.28	0.800	24.0	4	0.83	0.83	0.746
9/03	16.7	5	1.50	1.96	0.742	24.4	3	0.61	1.25	0.817	24.1	9	1.87	0.87	0.746
9/04	23.0	6	1.30	1.93	0.766	23.6	2	0.42	1.22	0.829	23.9	6	1.26	0.88	0.776
9/05	24.2	7	1.45	1.90	0.795	24.0	3	0.63	1.20	0.846	23.9	4	0.84	0.88	0.843
9/06	24.2	9	1.86	1.90	0.832	24.1	6	1.24	1.20	0.880	24.1	1	0.21	0.86	0.888
9/07	24.3	10	2.06	1.91	0.873	11.8	5	2.13	1.22	0.909			0.00	0.86	0.918
9/08			0.00	1.91	0.873			0.00	1.22	0.909			0.00	0.86	0.925
9/09			0.00	1.91	0.873	5.8	2	1.74	1.22	0.920	72.3	6	0.41	0.82	0.925
9/10	23.5	5	1.06	1.87	0.893			0.00	1.22	0.920	23.9	4	0.84	0.82	0.925
9/11	33.1	2	0.30	1.79	0.902			0.00	1.22	0.920			0.00	0.82	0.970
9/12	22.0	3	0.68	1.75	0.914			0.00	1.22	0.920			0.00	0.82	1.000
9/13	17.0	3	0.88	1.73	0.926	26.2	7	1.34	1.23	0.960			0.00	0.82	1.000
9/14	23.7	1	0.21	1.68	0.930			0.00	1.23	0.960			0.00	0.82	1.000
9/15			0.00	1.68	0.930			0.00	1.23	0.960			0.00	0.82	1.000
9/16			0.00	1.68	0.930			0.00	1.23	0.960			0.00	0.82	1.000
9/17	24.6	4	0.81	1.65	0.947			0.00	1.23	0.960			0.00	0.82	1.000
9/18	24.4	4	0.82	1.62	0.963			0.00	1.23	0.960			0.00	0.82	1.000
9/19			0.00	1.62	0.963	24.0	0	0.00	1.18	0.960			0.00	0.82	1.000
9/20	23.8	7	1.47	1.61	0.992	24.2	4	0.83	1.17	0.983			0.00	0.82	1.000
9/21	8.6	0	0.00	1.59	0.992	24.1	3	0.62	1.15	1.000			0.00	0.82	1.000
9/22			0.00	1.59	0.992	9.8	0	0.00	1.14	1.000			0.00	0.82	1.000
9/23			0.00	1.59	0.992			0.00	1.14	1.000					
9/24	23.6	2	0.42	1.56	1.000			0.00	1.14	1.000					
9/25	27.5	0	0.00	1.51	1.000			0.00	1.14	1.000					
9/26	20.3	0	0.00	1.47	1.000			0.00	1.14	1.000					
9/27	23.7	0	0.00	1.43	1.000			0.00	1.14	1.000					
9/28			0.00	1.43	1.000			0.00	1.14	1.000					
9/29			0.00	1.43	1.000			0.00	1.14	1.000					
9/30			0.00	1.43	1.000			0.00	1.14	1.000					
	853.8	244	68.7			767.8	175	41.3			817.2	134	27.13		1.000
	Mean day of catch 8/21					Mean day of catch 8/24					Mean day of catch 8/17				

Appendix Table 3. Unalakleet test net, 1981 - 1986.

	pink salmon catch, 1981 counts begin the day the tenth salmon was caught					pink salmon catch, 1982 counts begin the day the tenth salmon was caught					pink salmon catch, 1983 counts begin the day the tenth salmon was caught				
Date	Hours	Catch	CPUE	Cum. CPUE	CP(C)	Hours	Catch	CPUE	Cum. CPUE	CP(C)	Hours	Catch	CPUE	Cum. CPUE	CP(C)
6/10			0.00	0.00	0.000			0.00	0.00	0.000			0.00	0.00	0.000
6/11			0.00	0.00	0.000			0.00	0.00	0.000			0.00	0.00	0.000
6/12			0.00	0.00	0.000			0.00	0.00	0.000			0.00	0.00	0.000
6/13			0.00	0.00	0.000			0.00	0.00	0.000			0.00	0.00	0.000
6/14			0.00	0.00	0.000			0.00	0.00	0.000			0.00	0.00	0.000
6/15			0.00	0.00	0.000			0.00	0.00	0.000			0.00	0.00	0.000
6/16			0.00	0.00	0.000			0.00	0.00	0.000			0.00	0.00	0.000
6/17			0.00	0.00	0.000	24.0	13	2.71	2.71	0.015			0.00	0.00	0.000
6/18			0.00	0.00	0.000			0.00	2.71	0.015			0.00	0.00	0.000
6/19			0.00	0.00	0.000			0.00	2.71	0.015			0.00	0.00	0.000
6/20			0.00	0.00	0.000	12.0	11	4.58	3.33	0.028			0.00	0.00	0.000
6/21			0.00	0.00	0.000			0.00	3.33	0.028			0.00	0.00	0.000
6/22			0.00	0.00	0.000	12.0	10	4.17	3.54	0.040			0.00	0.00	0.000
6/23			0.00	0.00	0.000	12.0	13	5.42	3.92	0.055			0.00	0.00	0.000
6/24			0.00	0.00	0.000			0.00	3.92	0.055			0.00	0.00	0.000
6/25			0.00	0.00	0.000	11.9	36	15.13	5.77	0.098			0.00	0.00	0.000
6/26			0.00	0.00	0.000			0.00	5.77	0.098			0.00	0.00	0.000
6/27			0.00	0.00	0.000	12.1	37	15.29	7.14	0.141			0.00	0.00	0.000
6/28			0.00	0.00	0.000			0.00	7.14	0.141			0.00	0.00	0.000
6/29			0.00	0.00	0.000	12.2	24	9.84	7.48	0.169	11.5	8	2.78	2.78	0.047
6/30			0.00	0.00	0.000	13.5	23	8.52	7.61	0.196			0.00	2.78	0.047
7/01			0.00	0.00	0.000			0.00	7.61	0.196	11.9	19	6.39	4.62	0.160
7/02			0.00	0.00	0.000	12.0	87	36.25	10.44	0.298			0.00	4.62	0.160
7/03			0.00	0.00	0.000			0.00	10.44	0.298	11.9	6	2.02	3.74	0.195
7/04			0.00	0.00	0.000	13.5	61	22.59	11.65	0.370			0.00	3.74	0.195
7/05			0.00	0.00	0.000			0.00	11.65	0.370	11.9	15	5.04	4.07	0.284
7/06			0.00	0.00	0.000	12.0	64	26.67	12.87	0.445	12.0	2	0.67	3.38	0.296
7/07			0.00	0.00	0.000	5.5	63	57.27	14.47	0.519			0.00	3.38	0.296
7/08			0.00	0.00	0.000			0.00	14.47	0.519	12.1	12	3.97	3.48	0.367
7/09			0.00	0.00	0.000	9.0	12	6.67	14.04	0.533			0.00	3.48	0.367
7/10			0.00	0.00	0.000			0.00	14.04	0.533	11.4	12	4.21	3.58	0.438
7/11			0.00	0.00	0.000	6.5	12	9.23	13.85	0.548			0.00	3.58	0.438
7/12			0.00	0.00	0.000			0.00	13.85	0.548	11.5	19	6.61	3.95	0.550
7/13			0.00	0.00	0.000	12.2	49	20.08	14.27	0.605	11.6	15	5.17	4.08	0.639
7/14			0.00	0.00	0.000	9.0	40	22.22	14.65	0.652			0.00	4.08	0.639
7/15			0.00	0.00	0.000			0.00	14.65	0.652	11.7	13	4.44	4.12	0.716
7/16			0.00	0.00	0.000	11.8	64	27.12	15.38	0.727			0.00	4.12	0.716
7/17	24.0	20	8.33	8.33	0.056			0.00	15.38	0.727	11.8	10	3.39	4.05	0.775
7/18	24.0	20	8.33	8.33	0.111	12.0	80	33.33	16.39	0.821			0.00	4.05	0.775
7/19	24.0	23	9.58	8.75	0.175	12.0	53	22.08	16.70	0.884	11.8	9	3.05	3.97	0.828
7/20	24.0	15	6.25	8.13	0.217			0.00	16.70	0.884	11.5	0	0.00	3.67	0.828
7/21	24.0	51	21.25	10.75	0.358	11.8	49	20.76	16.90	0.941			0.00	3.67	0.828
7/22	24.0	55	22.92	12.78	0.511	24.5	37	7.55	16.02	0.985	12.2	19	6.23	3.86	0.941
7/23	24.0	28	11.67	12.62	0.589			0.00	16.02	0.985			0.00	3.86	0.941
7/24	24.0	17	7.08	11.93	0.636			0.00	16.02	0.985	11.5	2	0.70	3.65	0.953
7/25	24.0	22	9.17	11.62	0.697	12.6	8	3.17	15.43	0.994			0.00	3.65	0.953
7/26	24.0	14	5.83	11.04	0.736	2.5	1	2.00	15.31	0.995	12.0	3	1.00	3.48	0.970
7/27	24.0	12	5.00	10.49	0.769			0.00	15.31	0.995	11.7	2	0.68	3.32	0.982
7/28	24.0	5	2.08	9.79	0.783			0.00	15.31	0.995			0.00	3.32	0.982
7/29	24.0	9	3.75	9.33	0.808	4.6	2	2.17	15.10	0.998	11.7	0	0.00	3.14	0.982
7/30	24.0	8	3.33	8.90	0.831			0.00	15.10	0.998			0.00	3.14	0.982
7/31	24.0	10	4.17	8.58	0.858			0.00	15.10	0.998	11.6	0	0.00	2.97	0.982
8/01	24.0	4	1.67	8.15	0.869			0.00	15.10	0.998			0.00	2.97	0.982
8/02	24.0	4	1.67	7.77	0.881	4.4	0	0.00	14.86	0.998	12.1	0	0.00	2.82	0.982
8/03	24.0	6	2.50	7.48	0.897			0.00	14.86	0.998	12.2	0	0.00	2.68	0.982
8/04	24.0	4	1.67	7.17	0.908	13.2	1	0.38	14.22	0.999			0.00	2.68	0.982
8/05	24.0	2	0.83	6.85	0.914	7.3	0	0.00	13.88	0.999	11.8	1	0.34	2.58	0.988
8/06	24.0	10	4.17	6.73	0.942			0.00	13.88	0.999			0.00	2.58	0.988
8/07	24.0	12	5.00	6.65	0.975			0.00	13.88	0.999	12.8	0	0.00	2.45	0.988
8/08	24.0	1	0.42	6.38	0.978	12.6	0	0.00	13.34	0.999			0.00	2.45	0.988
8/09	24.0	1	0.42	6.13	0.981	12.9	0	0.00	12.82	0.999	25.7	0	0.00	2.24	0.988
8/10	24.0	2	0.83	5.92	0.986			0.00	12.82	0.999	12.5	0	0.00	2.15	0.988
8/11	24.0	2	0.83	5.72	0.992	12.2	0	0.00	12.36	0.999			0.00	2.15	0.988
8/12	24.0	3	1.25	5.56	1.000	12.5	0	0.00	11.93	0.999	1.3	0	0.00	2.14	0.988
8/13	24.0	0	0.00	5.36	1.000			0.00	11.93	0.999			0.00	2.14	0.988
8/14	24.0	0	0.00	5.17	1.000			0.00	11.93	0.999	10.7	1	0.37	2.08	0.994
8/15			0.00	5.17	1.000	12.3	1	0.41	11.54	1.000			0.00	2.08	0.994
8/16			0.00	5.17	1.000			0.00	11.54	1.000	12.2	1	0.33	2.02	1.000
8/17			0.00	5.17	1.000			0.00	11.54	1.000			0.00	2.02	1.000
8/18			0.00	5.17	1.000			0.00	11.54	1.000			0.00	2.02	1.000
8/19			0.00	5.17	1.000			0.00	11.54	1.000			0.00	2.02	1.000
8/20			0.00	5.17	1.000			0.00	11.54	1.000			0.00	2.02	1.000
	696.0	360.0	150.0			368.6	851.0	385.6			334.6	169.0	57.4		
	Mean day of catch 7/25					Mean day of catch 7/09					Mean day of catch 7/12				

Appendix Table 3. Unalakleet test net, 1981-1986 (continued).

	pink salmon catch, 1984 counts begin the day the tenth salmon was caught					pink salmon catch, 1985 counts begin the day the first salmon was caught					pink 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)	Hours	Catch	CPUE	Cum. CPUE	CP(C)
6/10			0.00	0.00	0.000			0.00	0.00	0.000					
6/11			0.00	0.00	0.000			0.00	0.00	0.000					
6/12			0.00	0.00	0.000			0.00	0.00	0.000					
6/13			0.00	0.00	0.000			0.00	0.00	0.000					
6/14			0.00	0.00	0.000			0.00	0.00	0.000					
6/15			0.00	0.00	0.000			0.00	0.00	0.000					
6/16			0.00	0.00	0.000			0.00	0.00	0.000		1	0.00	0.00	0.000
6/17			0.00	0.00	0.000			0.00	0.00	0.000		1	0.00	0.00	0.000
6/18			0.00	0.00	0.000			0.00	0.00	0.000		0	0.00	0.00	0.000
6/19			0.00	0.00	0.000			0.00	0.00	0.000		1	0.00	0.00	0.000
6/20			0.00	0.00	0.000			0.00	0.00	0.000		1	0.00	0.00	0.000
6/21			0.00	0.00	0.000			0.00	0.00	0.000	23.9	7	1.46	1.46	0.010
6/22	24.1	11	2.28	2.28	0.017			0.00	0.00	0.000	24.3	13	2.67	2.07	0.028
6/23			0.00	2.28	0.017			0.00	0.00	0.000	23.9	21	4.39	2.84	0.057
6/24			0.00	2.28	0.017			0.00	0.00	0.000	23.7	37	7.81	4.07	0.108
6/25	24.2	12	2.48	2.38	0.035			0.00	0.00	0.000	24.0	51	10.63	5.38	0.179
6/26			0.00	2.38	0.035			0.00	0.00	0.000	25.0	39	7.80	5.80	0.234
6/27	24.5	29	5.92	3.57	0.079			0.00	0.00	0.000	24.0	27	5.63	5.78	0.271
6/28			0.00	3.57	0.079			0.00	0.00	0.000	12.1	8	3.31	5.61	0.282
6/29	24.4	29	5.94	4.17	0.123	24.1	1	0.21	0.21	0.077	0.0	0	0.00	5.61	0.282
6/30			0.00	4.17	0.123	23.7	1	0.21	0.21	0.154	24.0	64	13.33	6.52	0.371
7/01			0.00	4.17	0.123	9.8	0	0.00	0.17	0.154	24.1	75	15.56	7.47	0.476
7/02	23.8	41	8.61	5.04	0.186	7.0	0	0.00	0.15	0.154	23.9	66	13.81	8.07	0.567
7/03			0.00	5.04	0.186	24.0	0	0.00	0.11	0.154	24.1	29	6.02	7.89	0.608
7/04	24.0	32	6.67	5.31	0.234	23.8	0	0.00	0.09	0.154	23.9	28	5.86	7.73	0.647
7/05			0.00	5.31	0.234	23.9	0	0.00	0.07	0.154	12.2	11	4.51	7.60	0.662
7/06	24.1	45	9.34	5.88	0.303	9.2	1	0.54	0.10	0.231	0.0	0	0.00	7.60	0.662
7/07			0.00	5.88	0.303			0.00	0.10	0.231	24.4	2	0.41	7.08	0.665
7/08			0.00	5.88	0.303	23.2	1	0.22	0.12	0.308	24.5	2	0.41	6.63	0.668
7/09	24.1	61	12.66	6.73	0.396	24.1	0	0.00	0.10	0.308	23.8	4	0.84	6.27	0.673
7/10			0.00	6.73	0.396	23.9	0	0.00	0.09	0.308	23.9	3	0.63	5.94	0.677
7/11	23.9	81	16.95	7.85	0.519	24.1	0	0.00	0.08	0.308	24.2	3	0.62	5.65	0.682
7/12			0.00	7.85	0.519	24.4	0	0.00	0.08	0.308	12.4	1	0.40	5.50	0.683
7/13	24.1	97	20.12	9.08	0.667	8.6	0	0.00	0.07	0.308	0.0	0	0.00	5.50	0.683
7/14			0.00	9.08	0.667			0.00	0.07	0.308	24.6	3	0.61	5.25	0.687
7/15			0.00	9.08	0.667	24.3	0	0.00	0.07	0.308	23.0	2	0.43	5.02	0.690
7/16	24.0	48	10.00	9.16	0.740	23.9	0	0.00	0.06	0.308	24.1	3	0.62	4.82	0.694
7/17			0.00	9.16	0.740	24.3	3	0.62	0.10	0.538	24.0	14	2.92	4.73	0.713
7/18	24.2	37	7.64	9.04	0.796	33.8	4	0.59	0.14	0.846	26.4	24	4.55	4.72	0.747
7/19			0.00	9.04	0.796	24.1	0	0.00	0.14	0.846	0.0	0	0.00	4.72	0.747
7/20	24.0	44	9.17	9.05	0.863			0.00	0.14	0.846	0.0	0	0.00	4.72	0.747
7/21			0.00	9.05	0.863			0.00	0.14	0.846	0.0	0	0.00	4.72	0.747
7/22			0.00	9.05	0.863	24.2	1	0.21	0.14	0.923	24.2	13	2.69	4.64	0.765
7/23	23.5	49	10.43	9.14	0.938	24.9	0	0.00	0.13	0.923	26.8	10	1.87	4.52	0.779
7/24			0.00	9.14	0.938	23.1	1	0.22	0.14	1.000	12.9	23	8.91	4.61	0.811
7/25	23.9	12	2.51	8.70	0.956			0.00	0.14	1.000	24.1	41	8.51	4.75	0.868
7/26	24.0	15	3.13	8.35	0.979			0.00	0.14	1.000	12.0	22	9.17	4.83	0.898
7/27	24.1	9	1.87	7.97	0.992			0.00	0.14	1.000	0.0	0	0.00	4.83	0.898
7/28	11.4	0	0.00	7.76	0.992			0.00	0.14	1.000	24.2	7	1.45	4.71	0.908
7/29			0.00	7.76	0.992			0.00	0.14	1.000	24.2	7	1.45	4.60	0.918
7/30	24.6	1	0.20	7.34	0.994			0.00	0.14	1.000	23.9	3	0.63	4.48	0.922
7/31	2.7	0	0.00	7.29	0.994			0.00	0.14	1.000	24.5	10	2.04	4.40	0.936
8/01	23.3	2	0.43	6.95	0.997			0.00	0.14	1.000			0.00	4.40	0.936
8/02			0.00	6.95	0.997			0.00	0.14	1.000			0.00	4.40	0.936
8/03	4.6	0	0.00	6.89	0.997			0.00	0.14	1.000			0.00	4.40	0.936
8/04			0.00	6.89	0.997			0.00	0.14	1.000			0.00	4.40	0.936
8/05			0.00	6.89	0.997			0.00	0.14	1.000	24.2	14	2.89	4.35	0.955
8/06	24.3	0	0.00	6.55	0.997			0.00	0.14	1.000	24.2	6	1.24	4.26	0.964
8/07			0.00	6.55	0.997			0.00	0.14	1.000	23.7	7	1.48	4.18	0.974
8/08	23.3	0	0.00	6.26	0.997			0.00	0.14	1.000	24.4	1	0.20	4.07	0.975
8/09			0.00	6.26	0.997			0.00	0.14	1.000	11.9	2	0.84	4.02	0.978
8/10	23.9	0	0.00	5.99	0.997			0.00	0.14	1.000			0.00	4.02	0.978
8/11			0.00	5.99	0.997			0.00	0.14	1.000	24.0	6	1.25	3.95	0.986
8/12			0.00	5.99	0.997			0.00	0.14	1.000	24.2	2	0.41	3.86	0.989
8/13	24.0	2	0.42	5.75	1.000			0.00	0.14	1.000	24.0	0	0.00	3.76	0.989
8/14			0.00	5.75	1.000			0.00	0.14	1.000	24.1	1	0.21	3.67	0.990
8/15			0.00	5.75	1.000			0.00	0.14	1.000	24.1	3	0.62	3.60	0.994
8/16			0.00	5.75	1.000			0.00	0.14	1.000	12.0	2	0.83	3.56	0.997
8/17			0.00	5.75	1.000			0.00	0.14	1.000			0.00	3.56	0.997
8/18			0.00	5.75	1.000			0.00	0.14	1.000	23.9	0	0.00	3.48	0.997
8/19			0.00	5.75	1.000			0.00	0.14	1.000	24.1	1	0.21	3.41	0.999
8/20			0.00	5.75	1.000			0.00	0.14	1.000	24.0	1	0.21	3.33	1.000
	571.0	657.0	136.8			476.4	13.0	2.8			1078.0	719.0	162.3		Ance
Mean day of catch 7/11						Mean day of catch 7/14					Mean day of catch 7/8				

Appendix Table 4. Unalakleet test net catches of chum salmon, in 5 7/8" gear, 1981 - 1986.

	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					chum salmon catch, 1983 counts begin the day the tenth salmon was caught				
Date	Hours	Catch	CPUE	Cum. CPUE	CP(C)	Hours	Catch	CPUE	Cum. CPUE	CP(C)	Hours	Catch	CPUE	Cum. CPUE	CP(C)
6/01			0.00	0.00	0.000			0.00	0.00	0.000			0.00	0.00	0.000
6/02			0.00	0.00	0.000			0.00	0.00	0.000			0.00	0.00	0.000
6/03			0.00	0.00	0.000			0.00	0.00	0.000			0.00	0.00	0.000
6/04			0.00	0.00	0.000			0.00	0.00	0.000			0.00	0.00	0.000
6/05			0.00	0.00	0.000			0.00	0.00	0.000			0.00	0.00	0.000
6/06			0.00	0.00	0.000			0.00	0.00	0.000			0.00	0.00	0.000
6/07			0.00	0.00	0.000			0.00	0.00	0.000			0.00	0.00	0.000
6/08			0.00	0.00	0.000			0.00	0.00	0.000			0.00	0.00	0.000
9/09			0.00	0.00	0.000			0.00	0.00	0.000			0.00	0.00	0.000
6/10			0.00	0.00	0.000			0.00	0.00	0.000			0.00	0.00	0.000
6/11			0.00	0.00	0.000			0.00	0.00	0.000			0.00	0.00	0.000
6/12			0.00	0.00	0.000			0.00	0.00	0.000			0.00	0.00	0.000
6/13			0.00	0.00	0.000			0.00	0.00	0.000			0.00	0.00	0.000
6/14			0.00	0.00	0.000			0.00	0.00	0.000			0.00	0.00	0.000
6/15			0.00	0.00	0.000			0.00	0.00	0.000	11.6	4	1.38	1.38	0.007
6/16			0.00	0.00	0.000			0.00	0.00	0.000			0.00	1.38	0.007
6/17			0.00	0.00	0.000			0.00	0.00	0.000	11.6	3	1.03	1.21	0.013
6/18			0.00	0.00	0.000	24.0	9	1.88	1.88	0.027			0.00	1.21	0.013
6/19			0.00	0.00	0.000			0.00	1.88	0.027	11.8	6	2.03	1.49	0.024
6/20			0.00	0.00	0.000	12.0	10	4.17	2.64	0.058			0.00	1.49	0.024
6/21			0.00	0.00	0.000			0.00	2.64	0.058	11.8	0	0.00	1.11	0.024
6/22			0.00	0.00	0.000	12.0	8	3.33	2.01	0.082	11.7	10	3.42	1.57	0.042
6/23			0.00	0.00	0.000	12.0	2	0.83	2.42	0.088			0.00	1.57	0.042
6/24			0.00	0.00	0.000			0.00	2.42	0.088	11.6	3	1.03	1.48	0.048
6/25			0.00	0.00	0.000	11.9	3	1.26	2.23	0.097			0.00	1.48	0.048
6/26			0.00	0.00	0.000			0.00	2.23	0.097	11.9	11	3.70	1.80	0.068
6/27			0.00	0.00	0.000	12.1	23	9.50	3.27	0.167			0.00	1.80	0.068
6/28			0.00	0.00	0.000			0.00	3.27	0.167	11.8	10	3.39	2.00	0.086
6/29			0.00	0.00	0.000	12.2	11	4.51	3.43	0.200	11.5	13	4.52	2.28	0.110
6/30			0.00	0.00	0.000	13.5	13	4.81	3.68	0.239			0.00	2.28	0.110
7/01			0.00	0.00	0.000			0.00	3.60	0.239	11.9	8	2.69	2.32	0.124
7/02			0.00	0.00	0.000	12.0	17	7.08	3.94	0.291			0.00	2.32	0.124
7/03			0.00	0.00	0.000			0.00	3.94	0.291	11.9	17	5.71	2.63	0.155
7/04			0.00	0.00	0.000	13.5	28	7.41	4.29	0.352			0.00	2.63	0.155
7/05			0.00	0.00	0.000			0.00	4.29	0.352	11.9	13	4.37	2.78	0.179
7/06			0.00	0.00	0.000	12.0	4	1.67	4.00	0.364	12.0	17	5.67	3.01	0.210
7/07			0.00	0.00	0.000	5.5	12	10.91	4.32	0.400			0.00	3.01	0.210
7/08			0.00	0.00	0.000			0.00	4.32	0.400	12.1	7	2.31	2.96	0.223
7/09			0.00	0.00	0.000	9.0	9	5.00	4.36	0.427			0.00	2.96	0.223
7/10			0.00	0.00	0.000			0.00	4.36	0.427	11.4	18	6.32	3.17	0.256
7/11			0.00	0.00	0.000	6.5	16	12.31	4.67	0.476			0.00	3.17	0.256
7/12			0.00	0.00	0.000			0.00	4.67	0.476	11.5	12	4.17	3.23	0.278
7/13			0.00	0.00	0.000	12.2	8	3.28	4.57	0.500	11.6	37	12.76	3.79	0.346
7/14			0.00	0.00	0.000	9.0	8	4.44	4.57	0.524			0.00	3.79	0.346
7/15			0.00	0.00	0.000			0.00	4.57	0.524	11.7	16	5.47	3.88	0.375
7/16			0.00	0.00	0.000	11.8	3	1.27	4.37	0.533			0.00	3.88	0.375
7/17	24.0	20	2.50	2.50	0.016			0.00	4.37	0.533	11.8	31	10.51	4.23	0.431
7/18	24.0	48	6.67	4.58	0.060	12.0	8	3.33	4.32	0.558			0.00	4.23	0.431
7/19	24.0	36	5.00	4.72	0.093	12.0	19	7.92	4.51	0.615	11.8	18	6.10	4.33	0.464
7/20	24.0	60	8.33	5.63	0.147			0.00	4.51	0.615	11.5	29	10.09	4.59	0.517
7/21	24.0	48	6.67	5.83	0.191	11.0	8	3.39	4.45	0.639			0.00	4.59	0.517
7/22	24.0	12	1.67	5.14	0.201	24.5	38	7.76	4.76	0.755	12.2	17	5.57	4.64	0.548
7/23	24.0	21	2.92	4.82	0.221			0.00	4.76	0.755			0.00	4.64	0.548
7/24	24.0	36	5.00	4.84	0.253			0.00	4.76	0.755	11.5	24	8.35	4.80	0.592
7/25	24.0	33	4.58	4.81	0.283	12.6	23	9.13	4.96	0.824			0.00	4.80	0.592
7/26	24.0	60	8.33	5.17	0.338	2.5	3	6.00	4.97	0.833	12.0	19	6.33	4.86	0.627
7/27	24.0	63	8.75	5.49	0.395			0.00	4.97	0.833	11.7	11	3.76	4.82	0.647
7/28	24.0	52	7.22	5.64	0.442			0.00	4.97	0.833			0.00	4.82	0.647
7/29	24.0	111	15.42	6.39	0.543	4.6	8	8.70	5.03	0.858	11.7	14	4.79	4.82	0.673
7/30	24.0	66	9.17	6.59	0.603			0.00	5.03	0.858			0.00	4.82	0.673
7/31	24.0	36	5.00	6.48	0.635			0.00	5.03	0.858	11.6	18	6.21	4.87	0.706
8/01	24.0	9	1.25	6.15	0.643	3.0	3	5.00	5.03	0.867			0.00	4.87	0.706
8/02	24.0	0	0.00	5.79	0.643	4.4	1	1.14	4.97	0.870	12.1	9	2.98	4.80	0.722
8/03	24.0	12	1.67	5.56	0.654			0.00	4.97	0.870	12.2	17	5.57	4.83	0.753
8/04	24.0	21	2.92	5.42	0.673	13.2	5	1.89	4.84	0.885			0.00	4.83	0.753
8/05	24.0	33	4.58	5.38	0.703	7.3	5	3.42	4.80	0.900	11.8	8	2.71	4.76	0.768
8/06	24.0	24	3.33	5.28	0.725			0.00	4.80	0.900			0.00	4.76	0.768
8/07	24.0	33	4.58	5.25	0.755			0.00	4.80	0.900	12.8	19	5.94	4.80	0.803
8/08	24.0	33	4.58	5.22	0.785	12.6	6	2.38	4.71	0.918			0.00	4.80	0.803
8/09	24.0	27	3.75	5.16	0.809	12.9	2	0.78	4.56	0.924	25.7	10	1.56	4.59	0.821
8/10	24.0	18	2.50	5.06	0.826			0.00	4.56	0.924	12.5	14	4.48	4.58	0.846
8/11	24.0	27	3.75	5.01	0.850	12.2	4	1.64	4.46	0.936			0.00	4.58	0.846
8/12	24.0	21	2.92	4.93	0.869	12.5	3	1.20	4.34	0.945	1.3	1	3.08	4.58	0.848
8/13	24.0	3	0.42	4.77	0.872			0.00	4.34	0.945			0.00	4.58	0.848
8/14	24.0	25	3.47	4.72	0.895			0.00	4.34	0.945	10.7	5	1.87	4.51	0.857
8/15	24.0	30	4.17	4.70	0.922	12.3	2	0.81	4.22	0.952			0.00	4.51	0.857
8/16	24.0	14	1.94	4.61	0.935	12.2	2	0.82	4.12	0.958	12.2	4	1.31	4.42	0.865
8/17	24.0	9	1.25	4.51	0.943			0.00	4.12	0.958	12.3	15	4.88	4.43	0.892
8/18	24.0	14	1.94	4.43	0.956	12.0	0	0.00	3.99	0.958			0.00	4.43	0.892
8/19	24.0	8	1.11	4.33	0.963	12.2	1	0.41	3.88	0.961	11.8	11	3.73	4.41	0.912
8/20	24.0	6	0.83	4.23	0.968			0.00	3.88	0.961			0.00	4.41	0.912
8/21	24.0	7	0.97	4.14	0.975			0.00	3.88	0.961	11.2	3	1.07	4.33	0.918
8/22	24.0	1	0.14	4.04	0.975	12.2	1	0.41	3.78	0.964			0.00	4.33	0.918
8/23	24.0	1	0.14	3.93	0.976	11.8	4	1.69	3.73	0.976	12.0	6	2.00	4.27	0.929
8/24	24.0	2	0.28	3.84	0.978			0.00	3.73	0.976	11.5	7	2.43	4.23	0.941
8/25	24.0	2	0.28	3.75	0.980	12.1	1	0.41	3.64	0.979			0.00	4.23	0.941
8/26	24.0	2	0.28	3.67	0.982	12.2	0	0.00	3.54	0.979	11.5	5	1.74	4.17	0.951
8/27	24.0	7	0.97	3.60	0.988			0.00	3.54	0.979			0.00	4.17	0.951
8/28	24.0	2	0.28	3.52	0.990			0.00	3.54	0.979	11.9	1	0.34	4.08	0.952
8/29	24.0	1	0.14	3.45	0.991	12.5	3	1.20	3.40	0.988			0.00	4.08	0.952
8/30	24.0	0	0.00	3.37	0.991	11.3	0	0.00	3.40	0.988	11.9	4	1.34	4.02	0.960
8/31	24.0	2	0.28	3.30	0.993			0.00	3.40	0.988	11.7	0	0.00	3.93	0.960
9/01	24.0	2	0.28	3.24	0.995	12.2	0	0.00	3.31	0.988			0.00	3.93	0.960
9/02	24.0	0	0.00	3.17	0.995	11.5	0	0.00	3.24	0.988	12.3	3	0.98	3.86	0.965
9/03	24.0	0	0.00	3.11	0.995			0.00	3.24	0.988			0.00	3.86	0.965
9/04	24.0	0	0.00	3.04	0.995			0.00	3.24	0.988	47.9	2	0.17	3.57	0.969
9/05	24.0	1	0.14	2.99	0.995	11.6	0	0.00	3.16	0.988			0.00	3.57	0.969
9/06	24.0	1	0.14	2.93	0.996	9.8	0	0.00	3.10	0.988	23.8	1	0.17	3.44	0.971
9/07	24.0	2	0.28	2.88	0.998			0.00	3.10	0.988	23.7	0	0.00	3.31	0.971
9/08	24.0	2	0.28	2.83	1.000	11.8	3	1.27	3.06	0.997	23.8	1	0.17	3.20	0.973
9/09			0.00	2.83	1.000			0.00	3.06	0.997	24.2	2	0.33	3.10	0.976
9/10			0.00	2.83	1.000	28.5	0	0.00	2.91	0.997	24.2	3	0.50	3.01	0.982
9/11			0.00	2.83	1.000	23.5	0	0.00	2.79	0.997	24.2	0	0.00	2.91	0.982
9/12			0.00	2.83	1.000	25.6	0	0.00	2.68	0.997	24.1	2	0.33	2.83	0.985
9/13			0.00	2.83	1.000	25.6	0	0.00	2.57	0.997			0.00	2.83	0.985
9/14			0.00	2.83	1.000	21.3	0	0.00	2.49	0.997	22.7	3	0.53	2.76	0.991
9/15			0.00	2.83	1.000	26.7	0	0.00	2.39	0.997	24.2	0	0.00	2.68	0.991
9/16			0.00	2.83	1.000	22.2	0	0.00	2.32	0.997	21.0	1	0.19	2.62	0.993
9/17			0.00	2.83	1.000	24.8	0	0.00	2.24	0.997	23.9	2	0.33	2.55	0.996
9/18			0.00	2.83	1.000	22.1	0	0.00	2.17	0.997	23.0	0	0.00	2.49	0.996
9/19			0.00	2.83	1.000	30.2	0	0.00	2.09	0.997			0.00	2.49	0.996
9/20			0.00	2.83	1.000	19.1	0	0.00	2.04	0.997	48.9	0	0.00	2.35	0.996
9/21			0.00	2.83	1.000	26.2	1	0.19	1.98	1.000	24.0	2	0.33	2.30	1.000
9/22			0.00	2.83	1.000			0.00	1.98	1.000			0.00	2.30	1.000
	1296.0	1102	153.06			832.8	330	154.56			950.1	547	182.74		
	Mean day of catch 8/03					Mean day of catch 7/15					Mean day of catch 7/23				