Unalakleet River
Test Net Project, 1990

by

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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; Bue and Lean 1988, 1990). This report presents test fishing results from the 1990 season.

METHODS

Project Deployment

Test fishing began June 13 and ended September 13. 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 14 to July 11.

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 eight 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 nets were normally 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 Martha Nanouk, a local subsistence fisher, as per agreement for the use of her traditional set net site. When Mrs. Nanouk 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 Chuck Blaney and Charles Lean 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 14 to July 11 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.

The Division of Subsistence conducted interviews during the late summer as part of their program. These interviews produced harvest data that is comparable to the data collected by local staff during 1985 and prior years.

RESULTS

Test Fishing

A total of 41 chinook (56% male, 44% female), 263 coho (52% male, 48% female), 741 pink and 337 chum (43% male, 57% female) salmon were captured in the test nets from June 13 to September 13. Based on daily CPUE, peak salmon passage occurred on June 20 for chinook, August 16 for coho, July 20 for pinks and July 20 for chum salmon. Daily CPUE data is presented in Appendices 1-4.

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 Nanouk family.

Comparative catch statistics show that the 1990 chinook salmon cumulative CPUE was 20% below the previous 8-year average (1982-89). Coho salmon CPUE was 60% above the 8-year average. Chum and pink salmon CPUE was 15% and 3% below the 8-year average, respectively.

Catch Sampling

Commercial catch sampling produced 140 ageable chinook salmon, 156 coho salmon and 453 chum salmon samples from the Unalakleet subdistrict. Tables 1-3 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 45% of the commercial samples and 54% of the test fish samples. Four and five year old chum salmon appeared approximately in equal proportions in both fisheries with males predominant in the test fishery.

Subsistence Survey

The in season subsistence surveys conducted during the chinook salmon subsistence fishery showed fishing effort in the Unalakleet River mouth area to be the lowest since net counting began in 1985 (Table 5). 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. The summer was very wet so few people attempted to put up dry fish. Seining currently seems to be the most popular fishing method in the Unalakleet River especially when there is a lot of debris.

The Division of Subsistence interviewed 90 households which reported harvesting 2,476 chinook salmon during 1990 or an average harvest of 28 chinook salmon per household. During the 1989 season the same households reported harvesting 73 sockeye, 4,681 coho, 17,500 pink and 1,388 chum salmon or an average harvest per household of 1 sockeye, 52 coho, 194 pink and 15 chum salmon.

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 5 and 6, 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 6). 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 reduced this year and 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 has increased, while coho has remained fairly constant and pink and chum have trended down.

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Table 1. Age, sex, and length (mm) of chinook salmon sampled from Norton Sound commercial and test fisheries, 1990.

	Brood Year and Age Group							
	1986	1985		1984		1983		
	1.2	1.3	2.2	1.4	2.3	1.5	2.4	Totals
Unalakleet (Subdistrict 6) Commercial GN								
Females	5	12	1	42	1	1	0	62
Percent	3.6	8.6	0.7	30.0	0.7	0.7	0.0	44.3
Mean Length	607	736	605	851	792	805	0	803
Males	8	29	0	39	2	0	0	78
Percent	5.7	20.7	0.0	27.9	1.4	0.0	0.0	55.7
Mean Length	567	733	0	824	724	0	0	761
Sexes Combined	13	41	1	81	3	1	0	140
Percent	9.3	29.3	0.7	57.9	2.1	0.7	0.0	100.0
Mean Length	582	734	605	838	747	805	0	780
Shaktoolik (Subdistrict 5) Commercial GN								
Females	1	10	0	72	0	1	2	86
Percent	0.7	7.2	0.0	52.2	0.0	0.7	1.4	62.3
Mean Length	615	755	0	868	0	980	892	854
Males	10	16	1	27	0	0	0	54
Percent	7.2	11.6	0.7	19.6	0.0	0.0	0.0	39.1
Mean Length	590	684	645	805	0	0	0	726
Sexes Combined	11	26	1	99	0	1	2	140
Percent	8.0	18.8	0.7	71.7	0.0	0.7	1.4	100.0
Mean Length	592	711	645	851	0	980	892	806
Unalakleet River Test GN								
Females	4	6	0	5	1	1	0	17
Percent	10.3	15.4	0.0	12.8	2.6	2.6	0.0	43.6
Mean Length	596	632	0	796	790	815	0	692
Males	7	9	2	2	1	1	0	22
Percent	17.9	23.1	5.1	5.1	2.6	2.6	0.0	56.4
Mean Length	588	678	615	720	765	960	0	664
Sexes Combined	11	15	2	7	2	2	0	39
Percent	28.2	38.5	5.1	17.9	5.1	5.1	0.0	100.0
Mean Length	591	660	615	774	778	888	0	676

Table 2. Age, sex, and length (mm) of coho salmon sampled from Norton Sound commercial and test fisheries, 1990.

	Brood Year and Age Group			
	1987 1.1	1986 2.1	1985 3.1	Totals
Unalakleet (Subdistrict 6) Commercial GN				
Females	2	123	8	133
Percent	0.7	41.1	2.7	44.5
Mean Length	570	574	581	574
Males	4	153	7	164
Percent	1.3	51.2	2.3	55.5
Mean Length	540	576	571	572
Sexes Combined	6	276	15	297
Percent	2.0	92.3	5.0	100.0
Mean Length	550	575	576	573
Unalakleet River Test GN*				
Females	101	1	13	115
Percent	42.4	0.4	5.5	48.3
Mean Length	580	620	570	579
Males	113	1	7	123
Percent	47.5	0.4	2.9	51.7
Mean Length	584	615	564	583
Sexes Combined	214	2	20	238
Percent	89.9	0.8	8.4	100.0
Mean Length	582	618	568	581
Shaktoolik River Escapement				
Females	6	0	2	8
Percent	11.5	0.0	3.8	15.4
Mean Length	584	0	585	584
Males	38	1	5	44
Percent	73.1	1.9	9.6	84.6
Mean Length	587	558	598	588
Sexes Combined	44	1	7	52
Percent	84.6	1.9	13.5	100.0
Mean Length	0	558	594	1072

* Gill net mesh size was 5-7/8" stretch measure.

Table 3. Age, sex, and length (mm) of chum salmon sampled from Norton Sound commercial and test fisheries, 1990.

	Brood Year and Age Group				
	1987	1986	1985	1984	
	0.2	0.3	0.4	0.5	Totals
Unalakleet (Subdistrict 6) Commercial GN					
Females	4	112	139	6	261
Percent	0.9	24.7	30.7	1.3	57.6
Mean Length	529	568	592	595	581
Males	3	106	79	4	192
Percent	0.7	23.4	17.4	0.9	42.4
Mean Length	563	579	611	664	594
Sexes Combined	7	218	218	10	453
Percent	1.5	48.1	48.1	2.2	100.0
Mean Length	544	573	599	623	586
Unalakleet River Test GN*					
Females	5	64	107	6	182
Percent	1.6	19.9	33.3	1.9	56.7
Mean Length	559	574	593	607	586
Males	3	69	65	2	139
Percent	0.9	21.5	20.2	0.6	43.3
Mean Length	548	578	620	628	598
Sexes Combined	8	133	172	8	321
Percent	2.5	41.4	53.6	2.5	100.0
Mean Length	555	576	603	612	591

* Gill net mesh size was 5-7/8" stretch measure.

Table 4. Age, sex, and length (mm) of Unalakleet subdistrict commercial chum salmon harvest by sampling period, 1990.

	Brood Year and Age Group					
	1988	1987	1986	1985	1984	
	0.1	0.2	0.3	0.4	0.5	Totals
Stratum Dates: 6/14-7/07						
Sample Size: 191						
Females in Catch	0	54	2001	3407	108	5570
Percent	0.0	0.5	19.4	33.0	1.0	53.9
Mean Length	0	540	574	592	615	585
Males in Catch	0	0	2325	2217	216	4758
Percent	0.0	0.0	22.5	21.5	2.1	46.1
Mean Length	0	0	586	614	664	603
Sexes Combined	0	54	4326	5624	324	10328
Percent	0.0	0.5	41.9	54.5	3.1	100.0
Mean Length	0	540	580	601	648	593
Stratum Dates: 7/09-7/21						
Sample Size: 195						
Females in Catch	0	83	2498	2206	167	4954
Percent	0.0	1.0	30.8	27.2	2.1	61.0
Mean Length	0	520	570	591	585	579
Males in Catch	42	83	1915	1124	0	3164
Percent	0.5	1.0	23.6	13.8	0.0	39.0
Mean Length	540	558	576	607	0	586
Sexes Combined	42	166	4413	3330	167	8118
Percent	0.5	2.0	54.4	41.0	2.1	100.0
Mean Length	540	539	573	596	585	582
Stratum Dates: 7/23-9/08						
Sample Size: 69						
Females in Catch	0	76	1133	1737	0	2946
Percent	0.0	1.5	21.7	33.3	0.0	56.5
Mean Length	0	536	543	592	0	572
Males in Catch	76	76	1284	831	0	2267
Percent	1.5	1.5	24.6	15.9	0.0	43.5
Mean Length	590	575	568	611	0	585
Sexes Combined	76	152	2417	2568	0	5213
Percent	1.5	2.9	46.4	49.3	0.0	100.0
Mean Length	590	556	556	598	0	577
Season Totals						
Sample Size: 455						
Females in Catch	0	213	5632	7350	275	13470
Males in Catch	118	159	5524	4172	216	10189
Sexes Combined	118	372	11156	11522	491	23659

Table 5. Unalakleet River and Unalakleet subdistrict subsistence catch and effort 1982-1990.* (p. 1 of 4).

	1982			1983			1984		
DATE	# fish-ermen	# king	daily mean	# fish-ermen	# king	daily mean	# fish-ermen	# 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-

* Only a selected 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 5. (p. 2 of 4).

	1985				1986				1987			
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												
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 5. (p. 3 of 4).

	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 5. (p. 4 of 4).

DATE	# fish-ermen	1990 # king	daily mean	# nets observed
6/06				
6/07				
6/08				
6/09				
6/10				
6/11				
6/12				
6/13				
6/14	4	44	11.0	8
6/15	0	0	0.0	6
6/16				
6/17				
6/18	2	11	5.5	1
6/19	4	7	1.8	7
6/20	2	5	2.5	9
6/21	4	36	9.0	
6/22	2	25	12.5	9
6/23	1	2	2.0	9
6/24				
6/25	1	3	3.0	2
6/26	1	0	0.0	7
6/27	3	2	0.7	6
6/28	3	1	0.3	8
6/29	2	8	4.0	8
6/30	2	5	2.5	11
7/01				
7/02				0
7/03				1
7/04	1	2	2.0	4
7/05	0	0	0.0	2
7/06				0
7/07				0
7/08				
7/09				2
7/10				2
7/11				
7/12				
7/13				
7/14				
7/15				
7/16				
7/17				

Table 6. Mean dates of passage based on commercial and test fish CPUE, Unalakleet subdistrict, Norton Sound District, 1981-1990.

	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	
1981-1989 Averages	6/26	6/28	8/14	8/22	7/16	7/18	7/12

Table 7. Comparison of commercial catch and escapement data for the Unalakleet subdistrict, Norton Sound District, 1981-1990.

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
1985-1989 Average	5396.2	0.46	64	0.59		
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		
1985-1989 Average	22277.6	1.04	162.6	0.952		
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
1985-1989 Average	23592.2	0.86	686.2	2.14		

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

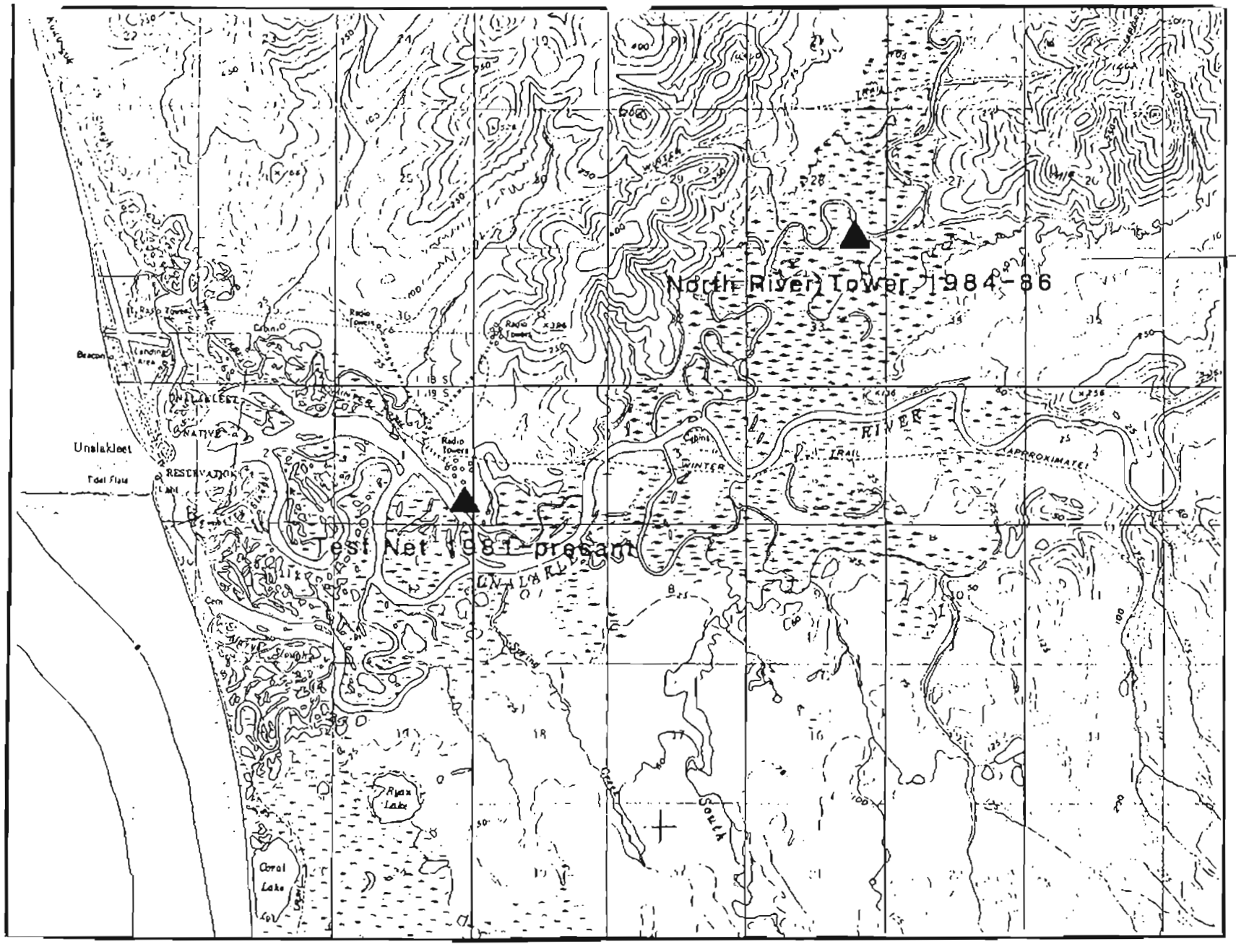

Figure 1. Site locations of Unalakleet River escapement projects, Norton Sound District, 1989.

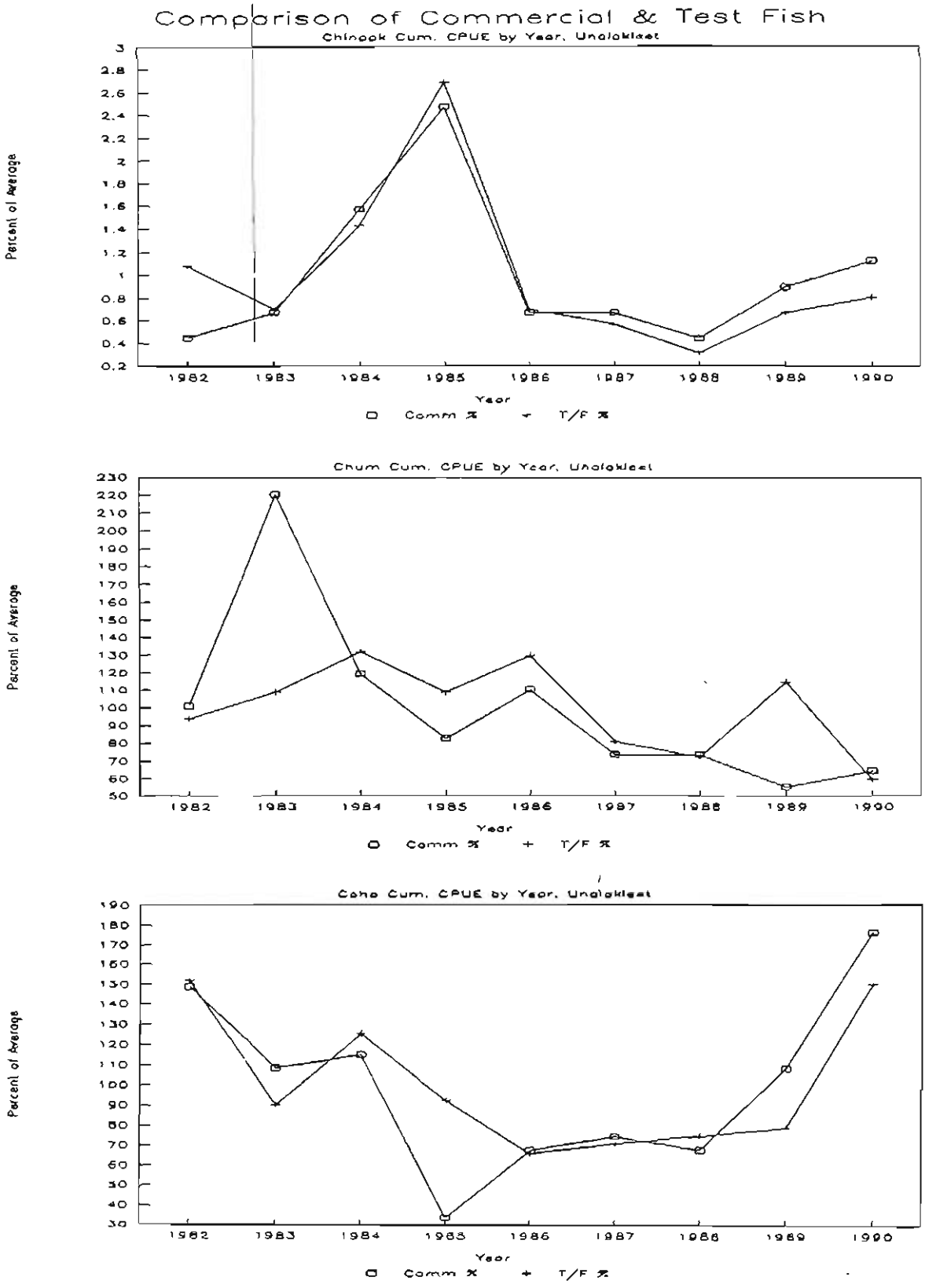

Figure 2. Comparisons of commercial and test fish cumulative CPUE for each salmon species by year as a percent of the previous 5-year averages (1985-1989). Unalakleet subdistrict, Norton Sound District, 1990.

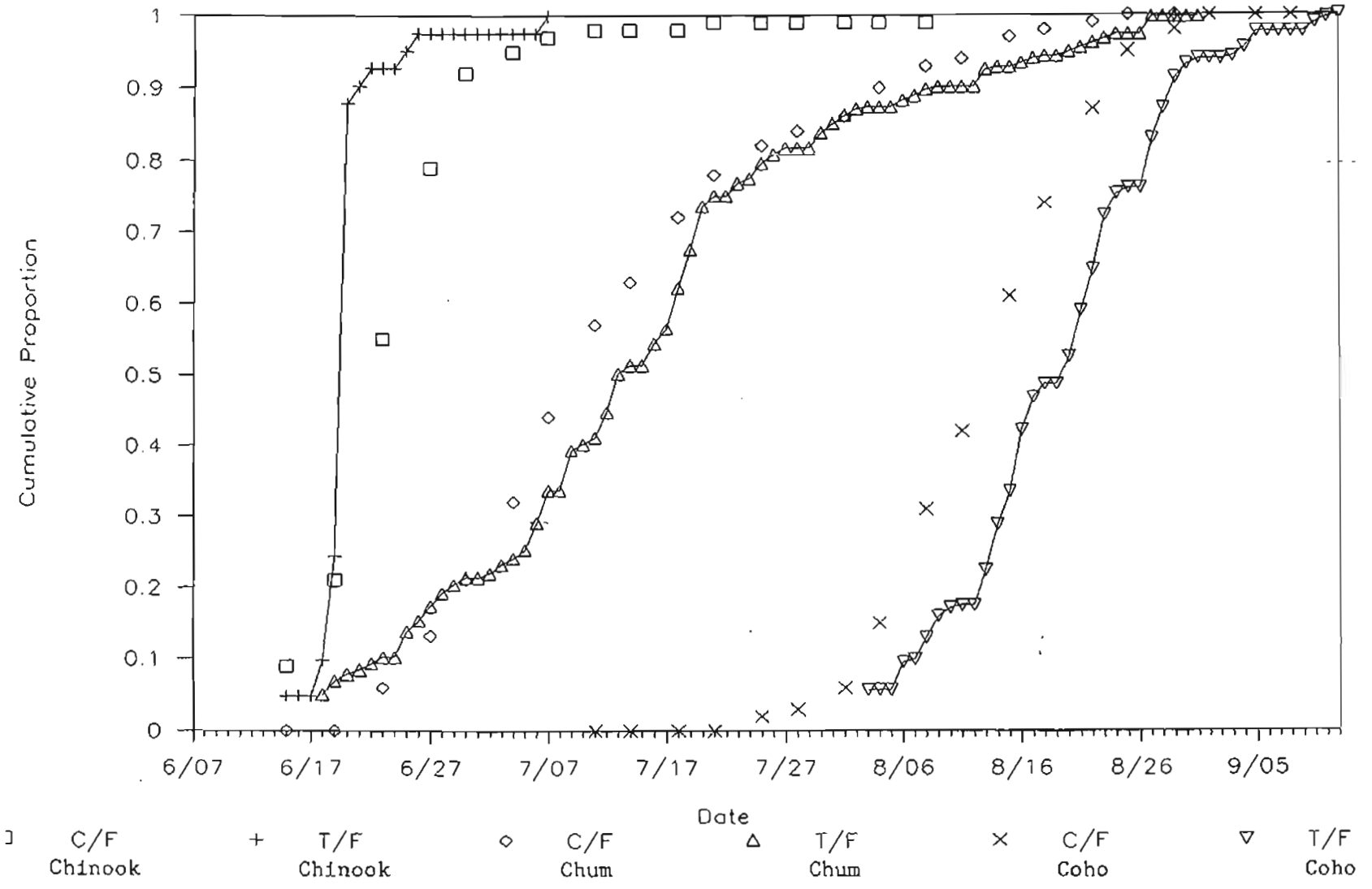

Figure 3. Commercial and test fish cumulative proportion curves showing run timing of salmon by date. Unalakleet subdistrict, Norton Sound District, 1990.

Appendix Table 1. Unalakleet test net catches of chinook salmon in 5 7/8" gear, 1982 - 1990. (p. 1 of 3)

	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)
6/07						12.6	1	0.40	0.40	0.056					
6/08						12.7	1	0.39	0.40	0.111					
6/09								0.00	0.40	0.111					
6/10						11.4	0	0.00	0.27	0.111					
6/11								0.00	0.27	0.111					
6/12						11.3	2	0.88	0.42	0.222					
6/13								0.00	0.42	0.222					
6/14						11.9	2	0.84	0.50	0.333					
6/15						11.6	1	0.43	0.49	0.389					
6/16	24.0	1	0.21	0.21	0.045			0.00	0.49	0.389					
6/17			0.00	0.21	0.045	11.6	2	0.86	0.54	0.500					
6/18	24.0	5	1.04	0.63	0.273			0.00	0.54	0.500					
6/19			0.00	0.63	0.273	11.8	0	0.00	0.47	0.500					
6/20	12.0	4	1.67	0.83	0.455			0.00	0.47	0.500					
6/21			0.00	0.83	0.455	11.8	1	0.42	0.47	0.556					
6/22	12.0	2	0.83	0.83	0.545	11.7	1	0.43	0.46	0.611					
6/23	12.0	2	0.83	0.83	0.636			0.00	0.46	0.611					
6/24			0.00	0.83	0.636	11.6	0	0.00	0.42	0.611					
6/25	11.9	1	0.42	0.78	0.682			0.00	0.42	0.611					
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						11.9	1	0.42	0.48	1.000	23.8	7	1.47	0.93	0.439
7/04													0.00	0.83	0.439
7/05											24.0	9	1.88	1.12	0.659
7/06													0.00	1.12	0.659
7/07											24.1	13	2.70	1.38	0.976
7/08													0.00	1.38	0.976
7/09											24.1	1	0.21	1.21	1.000
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															
Totals	171.2	22	7.8			212.9	18	7.6			241.1	41	8.56		
	Mean day of catch 6/23					Mean day of catch 6/20					Mean day of catch 7/05				

- continued -

Appendix Table 1. (p. 2 of 3)

	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					chinook salmon catch, 1987 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)
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	0.020					
6/18						24.2	2	0.41	0.31	0.061					
6/19						24.1	3	0.62	0.42	0.122					
6/20						24.0	2	0.42	0.42	0.163	11.8	1	0.42	0.42	0.024
6/21						23.9	2	0.42	0.42	0.204			0.00	0.42	0.024
6/22						24.3	2	0.41	0.42	0.245	23.6	0	0.00	0.14	0.024
6/23						23.9	2	0.42	0.42	0.286	23.9	0	0.00	0.08	0.024
6/24						23.7	2	0.42	0.42	0.327	24.0	0	0.00	0.06	0.024
6/25						24.0	4	0.83	0.46	0.408	24.1	2	0.41	0.14	0.071
6/26	23.0	1	0.22	0.22	0.006	25.0	6	1.20	0.54	0.531	24.2	0	0.00	0.11	0.071
6/27	24.5	0	0.00	0.11	0.006	24.0	1	0.21	0.51	0.551			0.00	0.11	0.071
6/28	23.7	0	0.00	0.07	0.006	12.1	0	0.00	0.49	0.551	48.0	6	0.63	0.25	0.214
6/29	24.1	2	0.41	0.16	0.018	0.0	0	0.00	0.49	0.551	23.9	0	0.00	0.22	0.214
6/30	23.7	18	3.80	0.88	0.123	24.0	0	0.00	0.45	0.551	24.1	0	0.00	0.20	0.214
7/01	9.8	8	4.08	1.13	0.170	24.1	0	0.00	0.42	0.551	23.7	0	0.00	0.18	0.214
7/02	7.0	10	7.14	1.44	0.228	23.9	0	0.00	0.39	0.551	24.0	4	0.83	0.24	0.310
7/03	24.0	13	2.71	1.63	0.304	24.1	0	0.00	0.36	0.551	24.0	2	0.42	0.25	0.357
7/04	23.8	14	2.94	1.80	0.386	23.9	0	0.00	0.34	0.551			0.00	0.25	0.357
7/05	23.9	9	1.88	1.81	0.439	12.2	1	0.41	0.34	0.571	47.6	3	0.32	0.26	0.429
7/06	9.2	2	1.09	1.78	0.450	0.0	0	0.00	0.34	0.571	24.5	0	0.00	0.24	0.429
7/07			0.00	1.78	0.450	24.4	4	0.82	0.37	0.653	24.0	4	0.83	0.28	0.524
7/08	23.2	22	4.74	2.06	0.579	24.5	2	0.41	0.37	0.694	24.1	2	0.41	0.29	0.571
7/09	24.1	14	2.90	2.14	0.661	23.8	2	0.42	0.37	0.735	24.0	1	0.21	0.28	0.595
7/10	23.9	13	0.00	2.19	0.737	23.9	9	0.00	0.44	0.918	24.3	6	1.23	0.33	0.738
7/11	24.1	5	1.04	2.10	0.766	24.2	3	0.62	0.45	0.980	11.2	4	1.79	0.37	0.833
7/12	24.4	5	1.02	2.02	0.795	12.4	0	0.00	0.44	0.980			0.00	0.37	0.833
7/13	8.6	1	0.58	1.99	0.801	0.0	0	0.00	0.44	0.980	23.3	1	0.21	0.36	0.857
7/14			0.00	1.99	0.801	24.6	0	0.00	0.42	0.980	23.9	3	0.63	0.37	0.929
7/15	24.3	7	1.44	1.95	0.842	23.0	1	0.22	0.42	1.000			0.00	0.37	0.929
7/16	23.9	8	1.67	1.93	0.889						48.4	1	0.10	0.35	0.952
7/17	24.3	5	1.03	1.88	0.918						23.8	1	0.21	0.34	0.976
7/18	33.8	3	0.44	1.77	0.936						10.9	0	0.00	0.34	0.976
7/19	24.1	4	0.83	1.72	0.959								0.00	0.34	0.976
7/20			0.00	1.72	0.959						24.2	0	0.00	0.32	0.976
7/21			0.00	1.72	0.959						23.8	0	0.00	0.31	0.976
7/22	24.2	3	0.62	1.67	0.977						24.0	1	0.21	0.31	1.000
7/23	24.9	1	0.20	1.60	0.982										
7/24	23.1	2	0.43	1.55	0.994										
7/25	23.7	0	0.00	1.49	0.994										
7/26	24.6	1	0.20	1.43	1.000										
	595.9	171.0	41.4			590.1	49.0	8.5			681.3	42	8.87		
	Mean day of catch 7/08					Mean day of catch 6/30					Mean day of catch 7/07				

- continued -

Appendix Table 1. (p. 3 of 3).

	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					chinook 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)	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	24.1	2	0.41	0.41	0.05
6/16						23.9	0	0.00	0.63	0.27	10.1	0	0.00	0.29	0.05
6/17						24.0	4	0.83	0.67	0.36	0.0	0	0.00	0.29	0.05
6/18						24.0	7	1.46	0.80	0.51	23.7	2	0.42	0.35	0.10
6/19						24.8	3	0.60	0.77	0.58	23.8	6	1.26	0.61	0.24
6/20	24.3	1	0.21	0.21	0.077	22.3	1	0.22	0.71	0.60	24.2	26	5.37	1.70	0.88
6/21	23.9	2	0.42	0.31	0.231	23.8	1	0.21	0.65	0.62	23.8	1	0.21	1.43	0.90
6/22	24.0	3	0.63	0.42	0.462	24.0	1	0.21	0.61	0.64	24.2	1	0.21	1.23	0.93
6/23	24.2	0	0.00	0.31	0.462	24.0	2	0.42	0.59	0.69	10.0	0	0.00	1.16	0.93
6/24	23.7	1	0.21	0.29	0.538	11.0	0	0.00	0.57	0.69	0.0	0	0.00	1.16	0.93
6/25	9.0	0	0.00	0.27	0.538	0.0		0.00	0.57	0.69	30.0	1	0.17	1.01	0.95
6/26			0.00	0.27	0.538	23.8	3	0.63	0.57	0.76	21.8	1	0.23	0.93	0.98
6/27	24.1	1	0.21	0.26	0.615	24.0	0	0.00	0.53	0.76	23.8	0	0.00	0.84	0.98
6/28			0.00	0.26	0.615	24.0	0	0.00	0.49	0.76	23.5	0	0.00	0.76	0.98
6/29	53.0	1	0.09	0.22	0.692	24.0	0	0.00	0.46	0.76	24.2	0	0.00	0.70	0.98
6/30	19.1	0	0.00	0.20	0.692			0.00	0.46	0.76	9.3	0	0.00	0.67	0.98
7/01	24.2	0	0.00	0.18	0.692	34.8	2	0.29	0.45	0.80	0.0	0	0.00	0.67	0.98
7/02	10.3	1	0.49	0.19	0.769	0.0		0.00	0.45	0.80	22.9	0	0.00	0.63	0.98
7/03			0.00	0.19	0.769	24.1	2	0.41	0.44	0.84	24.3	0	0.00	0.58	0.98
7/04	24.2	0	0.00	0.18	0.769	24.0	2	0.42	0.44	0.89	24.0	0	0.00	0.54	0.98
7/05	24.0	2	0.42	0.19	0.923	23.9	1	0.21	0.43	0.91	23.8	0	0.00	0.51	0.98
7/06	24.0	0	0.00	0.18	0.923	24.1	3	0.62	0.44	0.98	23.8	0	0.00	0.48	0.98
7/07	24.1	0	0.00	0.17	0.923	24.0	0	0.00	0.42	0.98	9.9	1	0.51	0.48	1.00
7/08	23.9	1	0.21	0.17	1.000	10.0	0	0.00	0.41	0.98					
7/09	11.6	0	0.00	0.17	1.000	0.0		0.00	0.41	0.98					
7/10			0.00	0.17	1.000	24.1	1	0.21	0.40	1.00					
7/11	24.4	0	0.00	0.16	1.000										
7/12	23.9	0	0.00	0.15	1.000										
7/13	23.9	0	0.00	0.14	1.000										
7/14	23.9	0	0.00	0.13	1.000										
7/15	24.1	0	0.00	0.13	1.000										
7/16	10.8	0	0.00	0.12	1.000										
7/17			0.00	0.12	1.000										
7/18	24.1	0	0.00	0.12	1.000										
7/19	24.0	0	0.00	0.11	1.000										
7/20	24.0	0	0.00	0.11	1.000										
7/21	24.2	0	0.00	0.11	1.000										
7/22	24.0	0	0.00	0.10	1.000										
7/23	25.4	0	0.00	0.10	1.000										
7/24															
7/25															
7/26															
Totals	668.3	13	2.87			580.0	45	9.26			425.2	41	8.79		
	Mean day catch 6/24					Mean day catch 6/18					Mean day catch 6/20				

Appendix Table 2. Unalakleet test net catches of coho salmon in 5 7/8 gear, 1981-1990. (p. 1 of 4)

	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															
7/26															
7/27															
7/28															
7/29															
7/30	24.0	6	0.83	0.83	0.019										
7/31	24.0	6	0.83	0.83	0.039										
8/01	24.0	3	0.42	0.69	0.048	3.0	9	15.00	15.00	0.038					
8/02	24.0	0	0.00	0.52	0.048	4.4	3	3.41	8.11	0.051					
8/03	24.0	3	0.42	0.50	0.058			0.00	8.11	0.051					
8/04	24.0	0	0.00	0.42	0.058	13.2	8	3.03	4.85	0.085					
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						26.2	4	0.76	2.05	0.962	24.0	3	0.50	1.20	0.995
9/22						27.6	6	1.09	2.00	0.987	24.2	0	0.00	1.16	0.995
9/23						20.2	2	0.50	1.95	0.996	23.4	1	0.17	1.12	1.000
9/24						23.8	1	0.21	1.89	1.000					
9/25															
9/26															
9/27															
Totals	1272.0	310	43.06			623.2	235	90.80			656.3	184	41.44		
	Mean day of catch 8/19					Mean day of catch 9/01					Mean day of catch 9/04				

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Appendix Table 2. (p. 2 of 4).

	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															
7/26															
7/27															
7/28											24.2	2	0.41	0.41	0.000
7/29											24.2	1	0.21	0.31	0.000
7/30	24.6	16	3.25	3.25	0.066						23.9	2	0.42	0.35	0.015
7/31	2.7	2	3.70	3.30	0.074						24.5	7	1.43	0.62	0.022
8/01	23.3	26	5.58	4.35	0.180								0.00	0.62	0.037
8/02			0.00	4.35	0.180								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	0.970
9/10	23.5	5	1.06	1.87	0.893			0.00	1.22	0.920	23.9	4	0.84	0.82	1.000
9/11	33.1	2	0.30	1.79	0.902			0.00	1.22	0.920					
9/12	22.0	3	0.68	1.75	0.914			0.00	1.22	0.920					
9/13	17.0	3	0.88	1.73	0.926	26.2	7	1.34	1.23	0.960					
9/14	23.7	1	0.21	1.68	0.930			0.00	1.23	0.960					
9/15			0.00	1.68	0.930			0.00	1.23	0.960					
9/16			0.00	1.68	0.930			0.00	1.23	0.960					
9/17	24.6	4	0.81	1.65	0.947			0.00	1.23	0.960					
9/18	24.4	4	0.82	1.62	0.963			0.00	1.23	0.960					
9/19			0.00	1.62	0.963	24.0	0	0.00	1.18	0.960					
9/20	23.8	7	1.47	1.61	0.992	24.2	4	0.83	1.17	0.983					
9/21	8.6	0	0.00	1.59	0.992	24.1	3	0.62	1.15	1.000					
9/22			0.00	1.59	0.992										
9/23			0.00	1.59	0.992										
9/24	23.6	2	0.42	1.56	1.000										
9/25															
9/26															
9/27															
Totals	853.8	244	68.7			767.8	175	41.3			817.2	134	27.1		
	Mean day of catch 8/22					Mean day of catch 8/21					Mean day of catch 8/14				

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Appendix Table 2. (p. 3 of 4)

	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)
7/25										
7/26										
7/27							1	0.00	0.00	0.006
7/28							3	0.00	0.00	0.022
7/29							2	0.00	0.00	0.034
7/30		1	0.00	0.00	0.008		0	0.00	0.00	0.034
7/31		0	0.00	0.00	0.008			0.00	0.00	0.034
8/01			0.00	0.00	0.008		3	0.00	0.00	0.051
8/02		0	0.00	0.00	0.008	24.0	5	1.04	2.92	0.079
8/03		2	0.00	0.00	0.023	24.1	5	1.04	1.98	0.107
8/04		1	0.00	0.00	0.038	23.9	8	1.67	1.88	0.152
8/05		1	0.00	0.00	0.038	24.2	1	0.21	1.46	0.157
8/06	24.3	8	1.65	1.65	0.098	10.2	2	0.98	0.09	0.169
8/07	24.1	0	0.00	0.83	0.098			0.00	0.09	0.169
8/08	10.4	0	0.00	0.68	0.098	23.9	22	4.60	0.92	0.292
8/09			0.00	0.68	0.098	24.1	16	3.32	1.30	0.382
8/10	24.2	7	1.45	0.90	0.150			0.00	1.30	0.382
8/11	23.8	1	0.21	0.75	0.158	47.9	16	1.67	1.38	0.472
8/12	23.9	1	0.21	0.65	0.165	23.9	7	1.46	1.39	0.511
8/13	24.3	2	0.41	0.61	0.180	9.1	3	1.65	1.40	0.528
8/14	23.9	5	1.05	0.67	0.218			0.00	1.40	0.528
8/15	23.8	4	0.84	0.69	0.248	16.1	4	1.24	1.39	0.551
8/16	24.8	2	0.42	0.66	0.263	23.9	0	0.00	1.27	0.551
8/17	24.2	2	0.41	0.64	0.278	23.9	4	0.84	1.24	0.573
8/18	23.8	1	0.21	0.60	0.286	23.9	2	0.42	1.18	0.584
8/19	24.0	6	1.25	0.65	0.331			0.00	1.18	0.584
8/20	24.2	7	1.45	0.71	0.383	33.9	1	0.15	1.08	0.590
8/21	24.0	7	1.46	0.76	0.436			0.00	1.08	0.590
8/22	24.0	5	1.04	0.78	0.474	24.0	0	0.00	1.01	0.590
8/23	23.9	2	0.42	0.76	0.489	24.0	2	0.42	0.98	0.601
8/24	23.9	2	0.42	0.74	0.504	24.5	11	2.24	1.05	0.663
8/25	24.2	3	0.62	0.73	0.526	23.7	5	1.05	1.05	0.691
8/26	24.1	4	0.83	0.74	0.556	23.7	4	0.84	1.04	0.713
8/27	24.0	2	0.42	0.72	0.571	9.8	3	1.53	1.05	0.730
8/28	23.9	1	0.21	0.70	0.579			0.00	1.05	0.730
8/29	10.8	0	0.00	0.68	0.579	24.0	3	0.63	1.03	0.747
8/30			0.00	0.68	0.579	24.0	2	0.42	1.00	0.758
8/31	13.1	8	3.05	0.74	0.639	24.1	3	0.62	0.98	0.775
9/01	24.2	7	1.45	0.77	0.692	24.1	5	1.04	0.99	0.803
9/02	23.9	3	0.63	0.77	0.714	23.9	5	1.05	0.99	0.831
9/03	23.9	3	0.63	0.76	0.737	10.2	0	0.00	0.97	0.831
9/04	24.1	6	1.24	0.78	0.782			0.00	0.97	0.831
9/05	24.8	4	0.81	0.78	0.812	23.9	3	0.63	0.96	0.848
9/06	23.5	10	2.13	0.83	0.887	23.0	1	0.22	0.93	0.854
9/07			0.00	0.83	0.887	25.0	1	0.20	0.91	0.860
9/08	47.8	15	1.57	0.88	1.000	24.2	9	1.86	0.94	0.910
9/09						24.2	5	1.03	0.94	0.938
9/10						24.0	1	0.21	0.92	0.944
9/11								0.00	0.92	0.944
9/12						48.0	10	1.04	0.93	1.000
Totals	731.0	133	26.46			809.3	178	35.32		
	Mean day of catch 8/24					Mean day of catch 8/12				

- continued -

Appendix Table 2. (p. 4 of 4).

	coho salmon catch, 1989 counts begin the day the tenth salmon was caught					coho 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)
7/10										
7/11										
7/12										
7/13		1	0.21							
7/14			0.00							
7/15			0.00							
7/16			0.00							
7/17			0.00							
7/18		1	0.21							
7/19			0.00							
7/20			0.00							
7/21		1	0.21							
7/22			0.00							
7/23			0.00							
7/24			0.00							
7/25			0.00							
7/26		2	0.42							
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	0.72	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
Totals	925.8	186	39.46			777.8	263	59.43		
	Mean day of catch 8/16					Mean day of catch 8/19				

Appendix Table 3. Unalakleet test net catches of pink salmon in 5 7/8" gear, 1981-90. (p. 1 of 4)

	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)
6/14															
6/15															
6/16															
6/17						24.0	13	2.71	2.71	0.015					
6/18								0.00	2.71	0.015					
6/19								0.00	2.71	0.015					
6/20						12.0	11	4.58	3.33	0.028					
6/21								0.00	3.33	0.028					
6/22						12.0	10	4.17	3.54	0.040					
6/23						12.0	13	5.42	3.92	0.055					
6/24								0.00	3.92	0.055					
6/25						11.9	36	15.13	5.77	0.098					
6/26								0.00	5.77	0.098					
6/27						12.1	37	15.29	7.14	0.141					
6/28								0.00	7.14	0.141					
6/29						12.2	24	9.84	7.48	0.169	11.5	8	2.78	2.78	0.047
6/30						13.5	23	8.52	7.61	0.196			0.00	2.78	0.047
7/01								0.00	7.61	0.196	11.9	19	6.39	4.62	0.160
7/02						12.0	87	36.25	10.44	0.298			0.00	4.62	0.160
7/03								0.00	10.44	0.298	11.9	6	2.02	3.74	0.195
7/04						13.5	61	22.59	11.65	0.370			0.00	3.74	0.195
7/05								0.00	11.65	0.370	11.9	15	5.04	4.07	0.284
7/06						12.0	64	26.67	12.87	0.445	12.0	2	0.67	3.38	0.296
7/07						5.5	63	57.27	14.47	0.519			0.00	3.38	0.296
7/08								0.00	14.47	0.519	12.1	12	3.97	3.48	0.367
7/09						9.0	12	6.67	14.04	0.533			0.00	3.48	0.367
7/10								0.00	14.04	0.533	11.4	12	4.21	3.58	0.438
7/11						6.5	12	9.23	13.85	0.548			0.00	3.58	0.438
7/12								0.00	13.85	0.548	11.5	19	6.61	3.95	0.550
7/13						12.2	49	20.08	14.27	0.605	11.6	15	5.17	4.08	0.639
7/14						9.0	40	22.22	14.65	0.652			0.00	4.08	0.639
7/15								0.00	14.65	0.652	11.7	13	4.44	4.12	0.716
7/16						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						12.3	1	0.41	11.54	1.000			0.00	2.08	0.994
8/16											12.2	1	0.33	2.02	1.000
8/17															
8/18															
8/19															
8/20															
Totals	696.6	360	150.00			368.6	851	385.6			334.6	169	57.4		
	Mean day of catch 7/22					Mean day of catch 7/07					Mean day of catch 7/12				

- continued -

Appendix Table 3. (p. 2 of 4)

	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)
6/14															
6/15															
6/16												1	0.00	0.00	0.000
6/17												1	0.00	0.00	0.000
6/18												0	0.00	0.00	0.000
6/19												1	0.00	0.00	0.000
6/20												1	0.00	0.00	0.000
6/21											23.9	7	1.46	1.46	0.010
6/22	24.1	11	2.28	2.28	0.017						24.3	13	2.67	2.07	0.028
6/23			0.00	2.28	0.017						23.9	21	4.39	2.84	0.057
6/24			0.00	2.28	0.017						23.7	37	7.81	4.07	0.108
6/25	24.2	12	2.48	2.38	0.035						24.0	51	10.63	5.38	0.179
6/26			0.00	2.38	0.035						25.0	39	7.80	5.80	0.234
6/27	24.5	29	5.92	3.57	0.079						24.0	27	5.63	5.78	0.271
6/28			0.00	3.57	0.079						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						24.1	41	8.51	4.75	0.868
7/26	24.0	15	3.13	8.35	0.979						12.0	22	9.17	4.83	0.898
7/27	24.1	9	1.87	7.97	0.992						0.0	0	0.00	4.83	0.898
7/28	11.4	0	0.00	7.76	0.992						24.2	7	1.45	4.71	0.908
7/29			0.00	7.76	0.992						24.2	7	1.45	4.60	0.918
7/30	24.6	1	0.20	7.34	0.994						23.9	3	0.63	4.48	0.922
7/31	2.7	0	0.00	7.29	0.994						24.5	10	2.04	4.40	0.936
8/01	23.3	2	0.43	6.95	0.997								0.00	4.40	0.936
8/02			0.00	6.95	0.997								0.00	4.40	0.936
8/03	4.6	0	0.00	6.89	0.997								0.00	4.40	0.936
8/04			0.00	6.89	0.997								0.00	4.40	0.936
8/05			0.00	6.89	0.997						24.2	14	2.89	4.35	0.955
8/06	24.3	0	0.00	6.55	0.997						24.2	6	1.24	4.26	0.964
8/07			0.00	6.55	0.997						23.7	7	1.48	4.18	0.974
8/08	23.3	0	0.00	6.26	0.997						24.4	1	0.20	4.07	0.975
8/09			0.00	6.26	0.997						11.9	2	0.84	4.02	0.978
8/10	23.9	0	0.00	5.99	0.997								0.00	4.02	0.978
8/11			0.00	5.99	0.997						24.0	6	1.25	3.95	0.986
8/12			0.00	5.99	0.997						24.2	2	0.41	3.86	0.989
8/13	24.0	2	0.42	5.75	1.000						24.0	0	0.00	3.76	0.989
8/14											24.1	1	0.21	3.67	0.990
8/15											24.1	3	0.62	3.60	0.994
8/16											12.0	2	0.83	3.56	0.997
8/17													0.00	3.56	0.997
8/18											23.9	0	0.00	3.48	0.997
8/19											24.1	1	0.21	3.41	0.999
8/20											24.0	1	0.21	3.33	1.000
Totals	571.0	657	136.8			476.4	13	2.8			1078.0	719	162.3		
	Mean day of catch 7/11					Mean day of catch 7/17					Mean day of catch 7/02				

- continued -

Appendix Table 3. (p. 3 of 4)

	Pink salmon catch, 1987 Counts begin the day the tenth salmon was caught.					Pink 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)
6/14							1	0.00	0.00	0.001
6/15							2	0.00	0.00	0.003
6/16							2	0.00	0.00	0.006
6/17								0.00	0.00	0.006
6/18							1	0.00	0.00	0.007
6/19								0.00	0.00	0.007
6/20						24.3	32	6.58	7.82	0.044
6/21						23.9	20	4.18	6.02	0.067
6/22						24.0	35	7.29	6.44	0.107
6/23						24.2	22	4.55	5.96	0.132
6/24						23.7	10	2.11	5.20	0.144
6/25						9.0	16	8.89	5.46	0.162
6/26								0.00	5.46	0.162
6/27						24.1	54	11.20	6.36	0.225
6/28								0.00	6.36	0.225
6/29						53.0	53	5.00	6.01	0.286
6/30						19.1	38	9.95	6.35	0.329
7/01						24.2	72	14.88	7.17	0.412
7/02						10.3	27	13.11	7.41	0.444
7/03								0.00	7.41	0.444
7/04						24.2	38	7.85	7.45	0.487
7/05						24.0	32	6.67	7.39	0.524
7/06						24.0	23	4.79	7.20	0.551
7/07						24.1	29	6.02	7.12	0.584
7/08	24.1	2	0.41	0.41	0.022	23.9	27	5.65	7.03	0.615
7/09	24.0	1	0.21	0.31	0.034	11.6	22	9.48	7.10	0.641
7/10	24.3	5	1.03	0.55	0.090			0.00	7.10	0.641
7/11	11.2	1	0.45	0.54	0.101	24.4	115	23.57	8.06	0.773
7/12			0.00	0.54	0.101	23.9	52	10.88	8.22	0.833
7/13	23.3	1	0.21	0.47	0.112	23.9	36	7.53	8.18	0.874
7/14	23.9	0	0.00	0.38	0.112	23.9	14	2.93	7.92	0.891
7/15			0.00	0.38	0.112	24.1	9	1.87	7.64	0.901
7/16	48.4	10	1.03	0.56	0.225	10.8	7	3.24	7.55	0.909
7/17	23.8	2	0.42	0.54	0.247			0.00	7.55	0.909
7/18	10.9	0	0.00	0.51	0.247	24.1	14	2.90	7.34	0.925
7/19			0.00	0.51	0.247	24.0	12	2.50	7.14	0.939
7/20	24.2	19	3.93	0.86	0.461	24.0	6	1.25	6.90	0.946
7/21	23.8	22	4.62	1.20	0.708	24.2	8	1.65	6.70	0.955
7/22	24.0	18	3.75	1.42	0.910	24.0	6	1.25	6.49	0.962
7/23	24.3	3	0.62	1.35	0.944	25.4	3	0.59	6.27	0.965
7/24	23.8	4	0.84	1.32	0.989			0.00	6.27	0.965
7/25	10.5	0	0.00	1.28	0.989			0.00	6.27	0.965
7/26			0.00	1.28	0.989			0.00	6.27	0.965
7/27	23.4	0	0.00	1.20	0.989	22.7	8	1.76	6.12	0.975
7/28	24.3	1	0.21	1.13	1.000	24.3	5	1.03	5.95	0.980
7/29						23.6	4	0.85	5.79	0.985
7/30						10.3	1	0.49	5.71	0.986
7/31								0.00	5.71	0.986
8/01						24.0	0	0.00	5.54	0.986
8/02						24.0	1	0.21	5.38	0.987
8/03						24.1	1	0.21	5.00	0.988
8/04						23.9	2	0.42	5.09	0.991
8/05						24.2	1	0.21	4.95	0.992
8/06						10.2	1	0.49	4.90	0.993
8/07								0.00	4.90	0.993
8/08						23.9	2	0.42	4.78	0.995
8/09						24.1	1	0.21	4.66	0.997
8/10								0.00	4.66	0.997
8/11						47.9	2	0.21	4.44	0.999
8/12						23.9	0	0.00	4.34	0.999
8/13						9.1	0	0.00	4.30	0.999
8/14								0.00	4.30	0.999
8/15						16.1	0	0.00	4.23	0.999
8/16						23.9	1	0.21	4.14	1.000
8/17						23.9	0	0.00	4.05	1.000
8/18						23.9	0	0.00	3.96	1.000
8/19								0.00	3.96	1.000
8/20						33.9	0	0.00	3.84	1.000
Totals	392.2	89	17.73			1130.2	868	195.05		
	Mean day catch 7/21					Mean day catch 7/05				

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Appendix Table 3. (p. 4 of 4)

	Pink salmon catch, 1989 Counts begin the day the tenth salmon was caught.					Pink 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)
6/14										
6/15										
6/16										
6/17										
6/18										
6/19										
6/20										
6/21		1	0.21			23.8	1	0.21		
6/22		2	0.42			24.2	0	0.00		
6/23		0	0.00			10.0	0	0.00		
6/24		1	0.45			0.0	0	0.00		
6/25			0.00			30.0	15	2.50	2.50	0.18
6/26		0	0.00			21.8	39	8.94	5.21	0.16
6/27		1	0.21			23.8	20	4.20	4.89	0.10
6/28		1	0.21			23.5	19	4.04	4.69	0.07
6/29	24.0	7	1.46	1.46	0.01	24.2	26	5.37	4.83	0.04
6/30			0.00	1.46	0.01	9.3	11	5.91	4.90	0.06
7/01	34.8	15	2.16	1.87	0.02	0.0	0	0.00	4.90	0.06
7/02	0.0		0.00	1.87	0.02	22.9	13	2.84	4.60	0.08
7/03	24.1	1	0.21	1.39	0.02	24.3	17	3.50	4.45	0.10
7/04	24.0	2	0.42	1.17	0.02	24.0	11	2.29	4.20	0.12
7/05	23.9	3	0.63	1.07	0.02	23.8	10	2.10	3.98	0.14
7/06	24.1	5	1.04	1.07	0.03	23.8	28	5.88	4.16	0.18
7/07	24.0	2	0.42	0.98	0.03	9.9	7	3.54	4.13	0.19
7/08	10.0	0	0.00	0.93	0.03	0.0	0	0.00	4.13	0.19
7/09	0.0		0.00	0.93	0.03	24.1	33	6.85	4.36	0.24
7/10	24.1	12	2.49	1.10	0.04	23.6	35	7.42	4.60	0.30
7/11	23.9	12	2.51	1.24	0.05	24.3	32	6.58	4.74	0.34
7/12	24.0	16	3.33	1.44	0.06	23.9	31	6.49	4.86	0.39
7/13	24.0	16	3.33	1.60	0.07	23.8	44	9.24	5.13	0.46
7/14	24.0	34	7.08	2.02	0.10	9.8	23	11.73	5.30	0.50
7/15	10.2	56	27.45	2.84	0.14	0.0	0	0.00	5.30	0.50
7/16	0.0		0.00	2.84	0.14	23.3	49	10.52	5.59	0.57
7/17	14.0	80	28.57	3.92	0.21	24.0	34	7.08	5.67	0.62
7/18	24.2	117	24.17	5.29	0.30	24.0	50	10.42	5.92	0.70
7/19	24.1	191	39.63	5.11	0.45	23.9	56	11.72	6.20	0.79
7/20	24.1	189	39.21	7.13	0.60	24.4	66	13.52	6.55	0.89
7/21	24.0	144	30.00	8.42	0.72	9.7	33	17.01	6.75	0.94
7/22	10.0	54	27.00	8.84	0.76	0.0	0	0.00	6.75	0.94
7/23	0.0		0.00	8.84	0.76	23.7	10	2.11	6.55	0.96
7/24	28.8	66	11.46	9.00	0.82	23.8	7	1.47	6.33	0.97
7/25	18.3	32	8.74	8.99	0.84	24.3	4	0.82	6.11	0.97
7/26	23.8	55	11.55	9.11	0.89	23.4	3	0.64	5.90	0.98
7/27	24.5	65	13.27	9.30	0.94	24.4	3	0.61	5.70	0.98
7/28	23.7	27	5.70	9.15	0.96	7.9	0	0.00	5.63	0.98
7/29	10.2	15	7.35	9.11	0.97	0.0	0	0.00	5.63	0.98
7/30	0.0	0	0.00	9.11	0.97	24.3	3	0.62	5.45	0.99
7/31	24.3	5	1.03	8.78	0.97	24.0	2	0.42	5.27	0.99
8/01	23.8	8	1.69	8.51	0.98	23.7	2	0.42	5.11	0.99
8/02	24.5	6	1.22	8.23	0.99	23.9	0	0.00	4.95	0.99
8/03	23.8	5	1.05	7.97	0.99	25.3	0	0.00	4.79	0.99
8/04	24.0	0	0.00	7.70	0.99	7.5	0	0.00	4.74	0.99
8/05	10.2	1	0.49	7.59	0.99	0.0	0	0.00	4.74	0.99
8/06	0.0	0	0.00	7.59	0.99	23.2	0	0.00	4.60	0.99
8/07	24.3	3	0.62	7.36	0.99	24.0	3	0.63	4.49	1.00
8/08	23.9	4	0.84	7.15	1.00	24.0	0	0.00	4.36	1.00
8/09	24.2	2	0.41	6.94	1.00	23.8	0	0.00	4.24	1.00
8/10	23.8	2	0.42	6.74	1.00	23.8	1	0.21	4.13	1.00
8/11	0.0	0	0.00	6.74	1.00					
8/12	33.8	0	0.00	6.47	1.00					
8/13	0.0	0	0.00	6.47	1.00					
8/14	24.0	1	0.21	6.29	1.00					
8/15										
8/16										
8/17										
8/18										
8/19										
8/20										
Totals	853.4	1253	308.65			953.1	741	177.85		
	Mean day catch 7/20					Mean day catch 7/14				

Appendix Table 4. Unalakleet test net catches of chum salmon, in 5 7/8" gear, 1981 - 1990. (p. 1 of 4)

	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)
6/15											11.6	4	1.38	1.38	0.007
6/16													0.00	1.38	0.007
6/17											11.6	3	1.03	1.21	0.013
6/18						24.0	9	1.88	1.88	0.027			0.00	1.21	0.013
6/19								0.00	1.88	0.027	11.8	6	2.03	1.49	0.027
6/20						12.0	10	4.17	2.64	0.058			0.00	1.49	0.024
6/21								0.00	2.64	0.058	11.8	0	0.00	1.11	0.024
6/22						12.0	8	3.33	2.81	0.082	11.7	10	3.42	1.57	0.042
6/23						12.0	2	0.83	2.42	0.088			0.00	1.57	0.042
6/24								0.00	2.42	0.088	11.6	3	1.03	1.48	0.048
6/25						11.9	3	1.26	2.23	0.097			0.00	1.48	0.048
6/26								0.00	2.23	0.097	11.9	11	3.70	1.80	0.068
6/27						12.1	23	9.50	3.27	0.167			0.00	1.80	0.068
6/28								0.00	3.27	0.167	11.8	10	3.39	2.00	0.086
6/29						12.2	11	4.51	3.73	0.200	11.5	13	4.52	2.28	0.110
6/30						13.5	13	4.81	3.60	0.239			0.00	2.28	0.110
7/01								0.00	3.60	0.239	11.9	8	2.69	2.32	0.124
7/02						12.0	17	7.08	3.94	0.291			0.00	2.32	0.124
7/03								0.00	3.94	0.291	11.9	17	5.71	2.63	0.155
7/04						13.5	20	7.41	4.29	0.352			0.00	2.63	0.155
7/05								0.00	4.29	0.352	11.9	13	4.37	2.78	0.179
7/06						12.0	4	1.67	4.08	0.364	12.0	17	5.67	3.01	0.210
7/07						5.5	12	10.91	4.32	0.400			0.00	3.01	0.210
7/08								0.00	4.32	0.400	12.1	7	2.31	2.96	0.223
7/09						9.0	9	5.00	4.36	0.427			0.00	2.96	0.223
7/10								0.00	4.36	0.427	11.4	18	6.32	3.17	0.256
7/11						6.5	16	12.31	4.67	0.476			0.00	3.17	0.256
7/12								0.00	4.67	0.476	11.5	12	4.17	3.23	0.278
7/13						12.2	8	3.28	4.57	0.500	11.6	37	12.76	3.79	0.346
7/14						9.0	8	4.44	4.57	0.524			0.00	3.79	0.346
7/15								0.00	4.57	0.524	11.7	16	5.47	3.88	0.375
7/16						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	11.8	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	5.46	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	0.729
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	4.32	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	4.15	0.958	12.2	4	1.31	4.42	0.865
8/17	24.0	9	1.25	4.51	0.943			0.00	4.15	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	3.48	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	3.06	0.997	24.2	2	0.33	3.10	0.976
9/10						28.5	0	0.00	2.91	0.997	24.2	3	0.50	3.01	0.982
9/11						23.5	0	0.00	2.79	0.997	24.2	0	0.00	2.91	0.982
9/12						25.6	0	0.00	2.68	0.997	24.1	2	0.33	2.83	0.985
9/13						25.6	0	0.00	2.57	0.997			0.00	2.83	0.985
9/14						21.3	0	0.00	2.49	0.997	22.7	3	0.53	2.76	0.991
9/15						26.7	0	0.00	2.39	0.997	24.2	0	0.00	2.68	0.991
9/16						22.2	0	0.00	2.32	0.997	21.0	1	0.19	2.62	0.993
9/17						24.8	0	0.00	2.24	0.997	23.9	2	0.33	2.55	0.996
9/18						22.1	0	0.00	2.17	0.997	23.0	0	0.00	2.49	0.996
9/19						30.2	0	0.00	2.09	0.997			0.00	2.49	0.996
9/20						19.1	0	0.00	2.04	0.997	48.9	0	0.00	2.35	0.996
9/21						26.2	1	0.19	1.98	1.000	24.0	2	0.33	2.30	1.000
Totals	1296.0	1102	153.06			832.8	330	154.56			950.1	547	182.74		
	Mean day of catch 7/29					Mean day of catch 7/13					Mean day of catch 7/20				

- continued -

Appendix Table 4. (p. 2 of 4)

	chum salmon catch, 1984 counts begin the day the tenth salmon was caught					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)	Hours	Catch	CPUE	Cum. CPUE	CP(C)
6/15															
6/16												3			
6/17												2			
6/18											24.2	11	2.27	2.27	0.014
6/19											24.1	2	0.83	1.55	0.019
6/20											24.0	3	0.63	1.37	0.023
6/21											23.9	3	1.88	1.40	0.025
6/22											23.9	6	1.85	1.49	0.047
6/23											23.9	14	2.93	1.73	0.065
6/24						23.9	17	2.85	2.85	0.021	23.7	2	0.42	1.55	0.067
6/25	24.2	17	3.51	3.51	0.027	23.3	23	4.28	3.17	0.048	24.0	5	1.04	1.48	0.074
6/26			0.00	3.51	0.027	23.0	35	5.24	3.93	0.087	24.0	5	1.00	1.43	0.080
6/27	24.5	29	5.92	4.72	0.073	24.5	22	3.59	3.85	0.114	24.0	10	2.08	1.49	0.093
6/28			0.00	4.72	0.073	23.7	19	3.21	3.72	0.137	12.1	13	5.37	1.68	0.110
6/29	24.4	27	5.53	4.99	0.117	24.1	29	4.81	3.90	0.172	0.0	0	0.00	1.68	0.110
6/30			0.00	4.99	0.117	23.7	37	6.24	4.23	0.217	24.0	9	1.88	1.70	0.121
7/01			0.00	4.99	0.117	9.8	20	8.16	4.55	0.245	24.1	9	1.87	1.71	0.133
7/02	23.8	39	8.19	5.78	0.179	7.0	32	19.43	5.02	0.283	23.9	6	1.26	1.68	0.141
7/03			0.00	5.78	0.179	24.0	38	6.33	5.17	0.330	24.1	10	2.07	1.70	0.154
7/04	24.0	31	6.46	5.91	0.228	23.8	36	6.05	5.26	0.374	23.9	8	1.67	1.70	0.164
7/05			0.00	5.91	0.228	23.9	19	3.18	5.06	0.397	12.2	11	4.51	1.79	0.178
7/06	24.1	56	11.62	6.68	0.318	9.2	7	3.04	4.89	0.405	0.0	0	0.00	1.79	0.178
7/07			0.00	6.86	0.318			0.00	4.89	0.405	24.2	11	2.25	1.82	0.193
7/08			0.00	6.86	0.318	23.2	38	6.55	5.12	0.452	24.1	11	2.27	1.84	0.207
7/09	24.1	50	10.37	7.36	0.398	24.1	58	9.63	5.47	0.523	23.8	14	2.94	1.90	0.225
7/10			0.00	7.36	0.398	23.9	34	5.69	5.48	0.564	23.8	10	2.09	1.91	0.238
7/11	23.9	29	6.07	7.20	0.444	24.1	38	6.31	5.59	0.611	24.2	12	2.48	1.94	0.253
7/12			0.00	7.20	0.444	24.2	26	3.61	5.41	0.637	12.4	10	4.03	1.99	0.269
7/13	24.1	26	5.39	7.00	0.486	8.6	9	2.19	5.39	0.648	0.0	0	0.00	1.99	0.268
7/14			0.00	7.00	0.486			0.00	5.39	0.648	24.6	23	4.67	2.11	0.296
7/15			0.00	7.00	0.486	24.3	25	4.12	5.31	0.679	23.0	20	4.35	2.20	0.322
7/16	24.0	22	4.58	6.76	0.521	23.9	3	0.50	5.05	0.683	24.1	17	3.53	2.25	0.347
7/17			0.00	6.76	0.521	24.3	11	1.81	4.89	0.696	24.0	23	4.79	2.35	0.373
7/18	24.2	22	4.55	6.56	0.556	33.8	20	2.37	4.72	0.720	26.4	40	7.58	2.57	0.425
7/19			0.00	6.56	0.556	24.1	8	1.33	4.56	0.730	0.0	0	0.00	2.57	0.425
7/20	24.0	28	5.83	6.50	0.601			0.00	4.56	0.730	0.0	0	0.00	2.57	0.425
7/21			0.00	6.50	0.601			0.00	4.56	0.730	0.0	0	0.00	2.57	0.425
7/22			0.00	6.50	0.601	24.2	21	3.47	4.51	0.756	24.2	47	8.09	2.80	0.482
7/23	23.5	15	3.19	6.22	0.625	24.9	13	2.09	4.41	0.772	24.2	43	9.07	3.05	0.526
7/24			0.00	6.22	0.625	23.1	10	1.73	4.30	0.784	26.8	49	9.14	3.05	0.545
7/25	23.9	6	1.26	5.90	0.634	23.7	19	3.21	4.26	0.807	12.9	26	10.08	3.18	0.579
7/26	24.0	0	3.75	5.75	0.653	24.6	8	1.30	4.15	0.817	24.1	44	9.13	3.38	0.636
7/27	24.1	16	3.33	5.60	0.683	7.4	1	0.54	4.11	0.818	12.0	30	12.50	3.52	0.674
7/28	11.4	3	1.32	5.48	0.693			0.00	4.11	0.818	0.0	0	0.00	3.52	0.674
7/29			0.00	5.48	0.693	23.8	22	3.70	4.09	0.845	24.2	34	7.02	3.63	0.718
7/30	24.6	30	6.10	5.51	0.741	23.9	9	1.00	3.99	0.852	24.2	32	6.61	3.73	0.760
7/31	2.7	0	0.00	5.48	0.741	23.8	7	1.18	3.90	0.861	23.9	36	7.53	3.84	0.806
8/01	23.3	7	1.50	5.37	0.755	24.2	7	1.16	3.81	0.869	24.5	41	8.37	3.97	0.858
8/02			0.00	5.37	0.755	24.3	3	0.48	3.70	0.873			0.00	3.97	0.859
8/03	4.6	4	4.35	5.26	0.759	10.7	1	0.37	3.66	0.874			0.00	3.97	0.859
8/04			0.00	5.26	0.759			0.00	3.66	0.874			0.00	3.97	0.859
8/05			0.00	5.26	0.759	23.8	2	0.34	3.56	0.877	24.2	13	2.69	3.93	0.876
8/06	24.3	7	1.44	5.07	0.770	24.3	1	0.16	3.46	0.878	24.5	19	3.93	3.93	0.901
8/07			0.00	5.07	0.770	24.0	3	0.50	3.38	0.882	23.9	24	5.06	3.96	0.932
8/08	23.3	11	2.36	4.94	0.788	24.0	3	1.50	3.33	0.893	24.4	6	1.23	3.89	0.939
8/09			0.00	4.94	0.788	24.0	13	2.17	3.29	0.908	11.9	2	0.84	3.85	0.942
8/10	23.9	6	1.26	4.77	0.797	11.0	5	1.82	3.28	0.915			0.00	3.85	0.942
8/11			0.00	4.77	0.797			0.00	3.28	0.915	24.0	6	1.25	3.79	0.950
8/12			0.00	4.77	0.797	24.2	9	1.49	3.23	0.926	23.2	1	0.51	3.70	0.951
8/13	24.0	14	2.92	4.69	0.819	24.0	9	1.50	3.19	0.937	24.0	12	2.50	3.67	0.966
8/14	24.2	12	2.48	4.60	0.839	20.2	8	1.10	3.13	0.946	24.1	5	1.04	3.61	0.973
8/15	23.8	7	1.47	4.47	0.850	16.5	11	2.26	3.11	0.960	24.1	4	0.83	3.55	0.978
8/16			0.00	4.47	0.850	23.5	11	1.87	3.08	0.973	12.0	3	1.25	3.52	0.982
8/17	25.0	13	2.60	4.40	0.871	11.6	0	0.00	3.05	0.973			0.00	3.52	0.982
8/18			0.00	4.40	0.871			0.00	3.05	0.973	23.9	1	0.21	3.45	0.983
8/19			0.00	4.40	0.871	24.1	1	0.17	2.98	0.974	24.1	2	0.41	3.39	0.986
8/20	24.0	7	1.46	4.29	0.882	23.8	5	0.84	2.92	0.980	24.0	1	0.21	3.32	0.987
8/21			0.00	4.29	0.882	24.8	3	0.48	2.88	0.984	24.0	2	0.42	3.27	0.990
8/22	24.7	5	1.01	4.17	0.890	23.8	2	0.32	2.83	0.987	23.9	0	0.00	3.20	0.990
8/23	23.3	8	1.72	4.08	0.903	23.9	6	0.27	2.78	0.990	11.8	0	0.00	3.17	0.990
8/24	24.0	7	1.46	4.00	0.914	9.1	0	0.51	2.76	0.990			0.00	3.17	0.990
8/25			0.00	4.00	0.914			0.00	2.76	0.990	23.9	0	0.00	3.10	0.990
8/26			0.00	4.00	0.914	23.0	4	0.70	2.72	0.995	24.0	0	0.00	3.04	0.990
8/27	23.0	6	1.30	3.91	0.923	24.2	2	0.33	2.69	0.998	24.0	1	0.21	2.99	0.991
8/28	23.8	7	1.54	3.84	0.935	24.4	0	0.00	2.62	0.998			0.00	2.99	0.991
8/29	23.3	4	0.79	3.74	0.941	23.7	0	0.00	2.57	0.998	48.0	2	0.21	2.89	0.994
8/30	24.2	3	0.62	3.65	0.946	24.2	0	0.00	2.52	0.998	11.8	1	0.42	2.87	0.995
8/31	30.7	4	0.65	3.54	0.952	23.5	0	0.00	2.48	0.998			0.00	2.87	0.995
9/01			0.00	3.54	0.952			0.00	2.48	0.998			0.00	2.87	0.995
9/02			0.00	3.54	0.952			0.00	2.48	0.998	24.0	1	0.21	2.82	0.996
9/03	16.7	5	1.30	3.50	0.960	24.3	0	0.00	2.43	0.998	24.1	2	0.41	2.78	0.999
9/04	23.0	4	0.87	3.43	0.966	23.6	1	0.17	2.39	0.999	23.9	1	0.21	2.74	1.000
9/05	24.2	6	1.24	3.37	0.976	24.0	0	0.00	2.35	0.999					
9/06	24.2	4	0.83	3.31	0.982	24.1	0	0.00	2.31	0.999					
9/07	24.3	3	0.62	3.24	0.987	11.8	1	0.34	2.30	1.000					
9/08			0.00	3.24	0.987										
9/09			0.00	3.24	0.987										
9/10	23.5	2	0.43	3.17	0.990										
9/11	33.1	1	0.15	3.07	0.992										
9/12	32.0	2	0.15	3.02	0.995										
9/13	17.0	1	0.29	2.97	0.997										
9/14	23.7	0	0.00	2.91	0.997										
9/15			0.00	2.91	0.997										
9/16			0.00	2.91	0.997										
9/17	24.6	1	0.20	2.85	0.998										
9/18	24.4	1	0.20	2.79	1.000										
9/19															
9/20															
9/21															
Totals	1122.5	626	134.67			1426.3	819	160.84			1413.7	774	177.74		
	Mean day of catch 7/16					Mean day of catch 7/09					Mean day of catch 7/23				

- continued -

Appendix Table 4. (p. 3 of 4)

Chum salmon catch, 1987
Counts begin the day the tenth salmon was caught.

Date	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		1			
6/17	24.3	2	1.85	1.85	0.015
6/18	23.7	2	0.42	1.15	0.018
6/19	23.6	2	0.42	0.90	0.021
6/20	11.8	0	0.00	0.78	0.021
6/21			0.00	0.78	0.021
6/22	23.6	3	0.64	0.75	0.026
6/23	23.9	2	0.42	0.69	0.030
6/24	24.0	7	1.46	0.81	0.041
6/25	24.1	11	2.28	1.00	0.059
6/26	24.2	10	2.07	1.13	0.076
6/27			0.00	1.13	0.076
6/28	48.0	17	1.77	1.25	0.104
6/29	23.9	12	2.51	1.36	0.123
6/30	24.1	9	1.87	1.40	0.138
7/01	23.7	6	1.27	1.39	0.148
7/02	24.0	7	1.46	1.40	0.160
7/03	24.0	2	0.42	1.33	0.163
7/04			0.00	1.33	0.163
7/05	47.6	15	1.58	1.36	0.188
7/06	24.5	9	1.84	1.39	0.202
7/07	24.0	0	0.00	1.32	0.202
7/08	24.1	6	1.24	1.31	0.214
7/09	24.0	18	3.75	1.43	0.242
7/10	24.3	27	5.56	1.63	0.286
7/11	11.2	15	6.78	1.72	0.311
7/12			0.00	1.72	0.311
7/13	23.3	23	4.94	1.85	0.319
7/14	23.9	10	2.09	1.86	0.325
7/15			0.00	1.86	0.325
7/16	48.4	20	2.07	1.87	0.398
7/17	23.8	5	1.05	1.84	0.406
7/18	10.9	1	0.92	1.83	0.408
7/19			0.00	1.83	0.408
7/20	24.2	10	2.07	1.83	0.424
7/21	23.8	18	3.78	1.89	0.454
7/22	24.0	24	5.00	1.99	0.493
7/23	23.3	31	7.32	2.06	0.528
7/24	23.8	23	4.83	2.15	0.566
7/25	10.5	13	6.19	2.20	0.587
7/26			0.00	2.20	0.587
7/27	23.4	8	1.71	2.19	0.600
7/28	23.3	4	0.82	2.15	0.607
7/29	23.9	3	0.63	2.11	0.612
7/30	23.7	10	2.11	2.11	0.628
7/31	23.9	5	1.05	2.08	0.637
8/01			0.00	2.08	0.637
8/02	47.6	18	1.89	2.07	0.666
8/03	24.0	16	3.33	2.10	0.692
8/04	23.5	15	3.19	2.12	0.717
8/05	23.7	12	2.53	2.13	0.737
8/06	24.3	22	4.53	2.19	0.773
8/07	24.1	18	3.73	2.22	0.803
8/08	10.4	10	4.81	2.34	0.819
8/09			0.00	2.34	0.819
8/10	24.2	8	1.65	2.23	0.832
8/11	23.8	8	1.89	2.23	0.847
8/12	23.9	4	0.84	2.20	0.854
8/13	24.3	10	2.06	2.19	0.870
8/14	23.8	8	1.97	2.18	0.883
8/15	23.8	6	1.26	2.17	0.893
8/16	24.0	5	1.04	2.15	0.901
8/17	24.2	10	2.07	2.14	0.918
8/18	23.8	6	1.26	2.13	0.928
8/19	24.0	3	0.63	2.10	0.933
8/20	24.2	7	1.45	2.09	0.944
8/21	24.0	5	1.04	2.07	0.952
8/22	24.0	4	0.83	2.05	0.959
8/23	23.9	3	0.42	2.02	0.962
8/24	23.9	1	0.21	1.99	0.964
8/25	24.2	1	0.21	1.97	0.965
8/26	24.1	5	1.04	1.95	0.974
8/27	24.0	2	0.42	1.93	0.977
8/28	23.9	0	0.00	1.90	0.977
8/29	10.8	0	0.00	1.88	0.977
8/30			0.00	1.88	0.977
8/31	13.1	2	0.76	1.88	0.980
9/01	24.2	1	0.21	1.85	0.982
9/02	23.5	3	0.63	1.83	0.987
9/03	23.9	2	0.42	1.81	0.990
9/04	24.1	1	0.21	1.79	0.992
9/05	24.8	2	0.40	1.77	0.995
9/06	23.5	0	0.00	1.74	0.995
9/07			0.00	1.74	0.995
9/08	47.8	3	0.31	1.71	1.000
9/09					
9/10					
9/11					
9/12					
Totals	1781.5	608	129.45		

Mean day of catch 7/23

Chum salmon catch, 1988
Counts begin the day the tenth salmon was caught.

Date	Hours	Catch	CPUE	Cum. CPUE	CP(C)
6/07		1	0.00	0.00	0.002
6/08		0	0.00	0.00	0.002
6/09		0	0.00	0.00	0.002
6/10		0	0.00	0.00	0.002
6/11		0	0.00	0.00	0.002
6/12		0	0.00	0.00	0.002
6/13		1	0.00	0.00	0.004
6/14		2	0.00	0.00	0.008
6/15		5	0.00	0.00	0.012
6/16		6	0.00	0.00	0.015
6/17	24.2	4	0.83	2.07	0.020
6/18	10.5	1	0.48	1.59	0.022
6/19			0.00	1.59	0.022
6/20	24.3	9	1.85	1.69	0.040
6/21	23.8	11	2.30	1.87	0.063
6/22	23.0	11	2.39	1.96	0.085
6/23	24.0	10	2.08	1.98	0.105
6/24	24.2	7	1.48	1.91	0.119
6/25	23.7	6	1.33	1.88	0.132
6/26	9.0		0.00	1.88	0.132
6/27			0.00	2.00	0.132
6/28	24.1	10	2.07	2.00	0.152
6/29			0.00	2.00	0.152
6/30	53.0	6	0.57	1.68	0.164
7/01	19.1	0	0.00	1.56	0.164
7/02	24.2	2	0.41	1.46	0.168
7/03	10.3	0	0.00	1.41	0.168
7/04			0.00	1.41	0.168
7/05	24.2	9	1.86	1.44	0.186
7/06	24.0	9	1.88	1.47	0.204
7/07	24.0	7	1.46	1.47	0.219
7/08	24.1	7	1.45	1.47	0.233
7/09	23.9	10	2.09	1.51	0.253
7/10	11.6	4	1.72	1.51	0.261
7/11			0.00	1.51	0.261
7/12	24.4	5	1.02	1.49	0.271
7/13	23.9	8	1.67	1.50	0.287
7/14	23.6	16	3.39	1.58	0.320
7/15	23.9	20	4.18	1.70	0.360
7/16	24.1	13	2.70	1.75	0.387
7/17	10.8	8	3.70	1.79	0.403
7/18			0.00	1.79	0.403
7/19	24.1	17	3.53	1.86	0.437
7/20	24.0	8	1.67	1.85	0.453
7/21	24.0	7	1.46	1.84	0.468
7/22	24.2	7	1.45	1.82	0.482
7/23	24.0	9	1.88	1.82	0.500
7/24	25.4	6	1.18	1.80	0.512
7/25			0.00	1.80	0.512
7/26			0.00	1.80	0.512
7/27	22.7	35	7.71	1.98	0.583
7/28	23.3	14	2.88	2.01	0.611
7/29	23.6	28	5.93	2.13	0.668
7/30	10.3	16	7.77	2.21	0.700
7/31			0.00	2.21	0.700
8/01	24.0	13	2.71	2.22	0.727
8/02	23.8	9	1.88	2.21	0.745
8/03	23.9	11	2.28	2.21	0.767
8/04	23.9	14	2.93	2.23	0.796
8/05	24.2	8	1.65	2.22	0.812
8/06	10.2	3	1.47	2.21	0.818
8/07			0.00	2.21	0.818
8/08	23.9	11	2.30	2.21	0.840
8/09	24.1	15	3.11	2.23	0.870
8/10			0.00	2.23	0.870
8/11	47.9	16	1.67	2.21	0.903
8/12	23.9	11	2.30	2.21	0.925
8/13	9.1	4	2.20	2.21	0.933
8/14			0.00	2.21	0.933
8/15	16.1	9	2.80	2.22	0.951
8/16	23.9	2	0.42	2.18	0.955
8/17	23.9	2	0.42	2.14	0.960
8/18	23.9	1	0.21	2.10	0.962
8/19			0.00	2.10	0.962
8/20	33.9	1	0.15	2.04	0.964
8/21			0.00	2.04	0.964
8/22	24.0	1	0.21	2.01	0.966
8/23	24.0	0	0.00	1.97	0.966
8/24	24.2	0	0.00	1.93	0.966
8/25	23.7	5	1.05	1.91	0.976
8/26	23.7	2	0.42	1.88	0.980
8/27	9.8	2	1.05	1.88	0.984
8/28			0.00	1.88	0.984
8/29	24.0	0	0.00	1.84	0.984
8/30	24.0	0	0.00	1.81	0.984
8/31	24.1	1	0.21	1.78	0.986
9/01	24.1	0	0.00	1.75	0.986
9/02	23.9	3	0.63	1.73	0.992
9/03	10.2	1	0.49	1.72	0.994
9/04			0.00	1.72	0.994
9/05	23.9	0	0.00	1.69	0.994
9/06	23.0	1	0.22	1.67	0.996
9/07	25.0	0	0.00	1.64	0.996
9/08	27.2	0	0.00	1.62	0.996
9/09	24.5	2	0.41	1.60	1.000
9/10	24.0	0	0.00	1.57	1.000
9/11			0.00	1.57	1.000
9/12	48.0	0	0.00	1.53	1.000
Totals	1617.2	494	113.36		

Mean day of catch 7/22

- continued -

Appendix Table 4. (p. 4 of 4)

Chum salmon catch, 1989
Counts begin the day the tenth salmon was caught.

Date	Hours	Catch	CPUE	Cum. CPUE	CP(C)
6/07					
6/08					
6/09					
6/10					
6/11					
6/12	22.5	1	0.22		
6/13	23.5	3	0.64		
6/14	24.0	4	0.83		
6/15	24.0	10	2.08	2.08	0.01
6/16	23.9	3	0.63	1.36	0.02
6/17	24.0	6	1.25	1.32	0.03
6/18	24.0	21	4.38	2.09	0.05
6/19	24.8	17	3.43	2.36	0.08
6/20	22.3	9	2.02	2.31	0.09
6/21	22.8	25	5.35	2.73	0.13
6/22	24.0	19	3.96	2.88	0.15
6/23	24.0	10	2.08	2.79	0.16
6/24	11.0	7	3.18	2.81	0.17
6/25	0.0		0.00	2.81	0.17
6/26	23.8	25	5.25	3.04	0.21
6/27	24.0	29	6.04	3.31	0.25
6/28	24.0	21	4.38	3.39	0.28
6/29	24.0	17	3.54	3.40	0.30
6/30			0.00	3.40	0.30
7/01	34.8	12	1.72	3.24	0.32
7/02	0.0	0	3.24	0.32	
7/03	24.1	25	5.19	3.36	0.35
7/04	24.0	17	3.54	3.37	0.38
7/05	23.9	14	2.93	3.35	0.39
7/06	24.1	18	3.73	3.37	0.42
7/07	24.0	16	3.50	3.33	0.44
7/08	10.0	12	6.00	3.38	0.45
7/09			0.00	3.38	0.45
7/10	24.1	26	5.39	3.48	0.49
7/11	23.9	16	3.35	3.47	0.51
7/12	24.0	16	3.33	3.46	0.53
7/13	24.0	18	3.75	3.48	0.56
7/14	24.0	26	5.42	3.55	0.59
7/15	10.2	9	4.41	3.57	0.60
7/16	0.0	0	3.57	0.60	
7/17	14.0	11	3.93	3.57	0.62
7/18	24.2	23	4.75	3.62	0.65
7/19	24.1	12	2.49	3.58	0.67
7/20	24.1	9	1.87	3.51	0.68
7/21	24.0	11	2.29	3.48	0.70
7/22	10.0	12	6.00	3.51	0.71
7/23	0.0		0.00	3.51	0.71
7/24	28.8	35	6.08	3.61	0.76
7/25	18.3	23	6.28	3.67	0.79
7/26	23.8	24	5.04	3.71	0.82
7/27	24.5	16	3.26	3.70	0.85
7/28	23.7	0	0.00	3.60	0.85
7/29	10.2	5	2.45	3.58	0.85
7/30	0.0	0	0.00	3.58	0.85
7/31	24.3	18	3.70	3.59	0.88
8/01	23.8	12	2.52	3.56	0.89
8/02	24.5	13	2.44	3.52	0.91
8/03	23.8	9	1.89	3.48	0.92
8/04	24.0	5	1.04	3.43	0.93
8/05	10.2	5	2.45	3.42	0.94
8/06	0.0	0	0.00	3.42	0.94
8/07	24.3	6	1.23	3.37	0.95
8/08	23.9	3	0.63	3.31	0.95
8/09	24.2	2	0.41	3.24	0.95
8/10	23.8	4	0.84	3.19	0.96
8/11	0.0	0	0.00	3.19	0.96
8/12	33.8	3	0.44	3.11	0.96
8/13	0.0	0	0.00	3.11	0.96
8/14	24.0	9	1.88	3.08	0.97
8/15	24.2	4	0.83	3.03	0.98
8/16	24.2	1	0.21	2.98	0.98
8/17	23.6	1	0.21	2.92	0.98
8/18	0.0	0	0.00	2.92	0.98
8/19	32.8	0	0.00	2.85	0.98
8/20	0.0	0	2.85	0.98	
8/21	24.0	1	0.21	2.80	0.98
8/22	24.0	3	0.63	2.76	0.99
8/23	23.5	1	0.21	2.71	0.99
8/24	0.0	0	2.71	0.99	
8/25	34.5	2	0.29	2.65	0.99
8/26	25.0	0	0.00	2.60	0.99
8/27	0.0	0	2.60	0.99	
8/28	24.0	0	0.00	2.56	0.99
8/29	25.8	1	0.19	2.52	0.99
8/30	24.8	1	0.22	2.48	0.99
8/31	23.7	1	0.21	2.44	1.00
9/01	23.8	3	0.63	2.42	1.00
9/02	11.8	0	0.00	2.40	1.00
9/03	0.0	0	2.40	1.00	
9/04	23.3	0	0.00	2.36	1.00
9/05	24.0	0	0.00	2.32	1.00
9/06	0.0	2	1.00		
9/07	48.3	0	0.00	2.25	1.00
9/08	23.7	0	0.00	2.22	1.00
9/09	24.0	0	0.00	2.19	1.00
9/10	24.0	0	0.00	2.16	1.00
9/11	23.8	0	0.00	2.13	1.00
9/12	24.0	0	0.00	2.10	1.00
Totals	1804	736	168		

Mean day catch 7/11

Chum salmon catch, 1990
Counts begin the day the tenth salmon was caught.

Date	Hours	Catch	CPUE	Cum. CPUE	CP(C)
6/07					
6/08					
6/09					
6/10					
6/11					
6/12					
6/13	15.2	1			
6/14	24.0	0			
6/15	24.1	4			
6/16	10.1	1			
6/17	0.0	0			
6/18	23.7	12	2.53	2.53	0.05
6/19	23.8	6	1.26	1.89	0.07
6/20	24.2	3	0.62	1.46	0.08
6/21	23.8	2	0.42	1.20	0.08
6/22	24.2	2	0.82	1.09	0.09
6/23	10.0	3	1.50	1.12	0.10
6/24	0.0	0	0.00	1.12	0.10
6/25	30.0	12	2.00	1.28	0.14
6/26	21.8	5	1.15	1.27	0.15
6/27	23.8	7	1.47	1.29	0.17
6/28	23.5	6	1.28	1.29	0.19
6/29	24.2	4	0.83	1.25	0.20
6/30	9.3	3	1.61	1.26	0.21
7/01	0.0	0	0.00	1.26	0.21
7/02	22.9	2	0.44	1.19	0.22
7/03	24.3	4	0.82	1.16	0.23
7/04	24.0	3	0.63	1.12	0.24
7/05	23.8	4	0.84	1.11	0.25
7/06	23.8	13	2.73	1.21	0.29
7/07	9.9	15	3.58	1.37	0.34
7/08	0.0	0	0.00	1.37	0.34
7/09	24.1	19	3.94	1.52	0.39
7/10	23.6	3	0.64	1.47	0.40
7/11	24.3	3	0.62	1.43	0.41
7/12	23.9	12	2.51	1.48	0.45
7/13	23.8	18	3.78	1.59	0.50
7/14	9.8	4	2.04	1.66	0.51
7/15	0.0	0	0.00	1.59	0.51
7/16	23.3	10	2.15	1.62	0.54
7/17	24.0	7	1.46	1.61	0.56
7/18	24.0	19	3.96	1.71	0.62
7/19	23.9	18	3.77	1.79	0.68
7/20	24.4	20	4.10	1.87	0.74
7/21	9.7	5	2.58	1.89	0.75
7/22	0.0	0	0.00	1.89	0.75
7/23	23.7	6	1.27	1.86	0.77
7/24	27.8	5	0.42	1.81	0.77
7/25	24.3	7	1.44	1.80	0.80
7/26	23.4	4	0.85	1.77	0.81
7/27	24.4	3	0.61	1.74	0.82
7/28	7.9	0	0.00	1.72	0.82
7/29	0.0	0	0.00	1.72	0.82
7/30	24.3	7	1.44	1.71	0.84
7/31	24.0	4	0.83	1.68	0.85
8/01	23.7	4	0.84	1.66	0.86
8/02	23.9	3	0.63	1.63	0.87
8/03	25.3	1	0.20	1.59	0.87
8/04	7.5	0	0.00	1.58	0.87
8/05	0.0	0	0.00	1.58	0.87
8/06	23.2	3	0.65	1.56	0.88
8/07	24.0	2	0.42	1.53	0.89
8/08	24.0	3	0.63	1.50	0.90
8/09	23.8	1	0.21	1.47	0.90
8/10	23.8	0	0.00	1.44	0.90
8/11	11.0	0	0.00	1.42	0.90
8/12	0.0	0	0.00	1.42	0.90
8/13	22.0	8	1.82	1.43	0.92
8/14	24.0	1	0.21	1.41	0.93
8/15	24.0	0	0.00	1.37	0.93
8/16	24.0	2	0.42	1.35	0.93
8/17	24.2	2	0.41	1.33	0.94
8/18	9.2	1	0.53	1.33	0.94
8/19	0.0	0	0.00	1.33	0.94
8/20	23.5	2	0.43	1.31	0.95
8/21	24.2	2	0.41	1.29	0.95
8/22	24.6	2	0.41	1.27	0.96
8/23	23.2	2	0.43	1.26	0.97
8/24	24.2	2	0.41	1.24	0.97
8/25	8.5	0	0.00	1.23	0.97
8/26	0.0	0	0.00	1.23	0.97
8/27	16.9	8	2.37	1.25	0.99
8/28	24.0	0	0.00	1.23	0.99
8/29	24.0	0	0.00	1.21	0.99
8/30	24.1	0	0.00	1.18	0.99
8/31	24.0	0	0.00	1.16	0.99
9/01	9.0	0	0.00	1.16	0.99
9/02	0.0	0	0.00	1.16	0.99
9/03	23.7	0	1.14	1.00	
9/04	23.2	1	0.22	1.12	0.99
9/05	33.0	1	0.15	1.10	1.00
9/06	0.0	0	1.10	1.00	
9/07	0.0	0	0.00	1.10	1.00
9/08	0.0	0	0.00	1.10	1.00
9/09	0.0	0	0.00	1.10	1.00
9/10	14.1	0	0.00	1.09	1.00
9/11	23.5	0	0.00	1.07	1.00
9/12	24.0	2	0.42	1.06	1.00
Totals	1629	337	79		

Mean day catch 7/13