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LOWER YUKON RIVER SALMON TEST AND COMMERCIAL FISHERIES, 1981

By:
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May 1983

ALASKA DEPARTMENT OF FISH AND GAME
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Don Collinsworth
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TABLE OF CONTENTS

	Page
LIST OF TABLES	i
LIST OF FIGURES	ii
ABSTRACT	iii
INTRODUCTION	1
METHODS	3
Migratory Timing Analysis	3
Correlation Analysis	9
RESULTS AND DISCUSSION	11
Migratory Timing Analysis	11
Correlation Analysis	16
ACKNOWLEDGMENTS	20
REFERENCES	21
APPENDICES	22
A. Test fishery catches and hours fished, 1981	23
B. Commercial catch and CPUE data, 1981	32
C. Test fishery daily, cumulative, and relative CPUE, 1981	44
D. Test fishery daily CPUE bar graphs, 1981	62
E. District 1 commercial daily and cumulative CPUE and relative CPUE, 1981	67
F. Test fishery daily and cumulative CPUE and relative CPUE, 1977-1980	72
G. Test fishery and commercial CPUE used in correlation analysis	84
H. Test fishery catches of miscellaneous salmon and other fish, 1981	87

LIST OF TABLES

Table		Page
1.	Mean migration dates and variance from 1981 test fishery and commercial catch data for chinook, summer chum, fall chum, and coho salmon	12
2.	Mean migration dates and variance for chinook salmon test fishery and commercial CPUE, from 1963 to 1981	14
3.	Mean migration dates and variance for fall chum salmon, test fishery, and commercial CPUE, from 1977 to 1981	15
4.	Correlation coefficients between test fishery and commercial daily CPUE for chinook and summer chum salmon, 1981	17
5.	Correlation coefficients between test fishery and commercial daily CPUE for fall chum salmon, 1981	19

LIST OF FIGURES

Figure		Page
1.	Map of Yukon Management Area showing fishing districts	2
2.	Map of Yukon District 1 showing location of Big Eddy and Middle Mouth test fishing camps, and commercial statistical areas . . .	4
3.	Detailed map of Big Eddy area showing locations of test fishing net sites	5
4.	Detailed map of Middle Mouth Camp area showing locations of test fishing net sites	6
5.	Detailed map of Middle Mouth Camp area showing locations of test fishing net sites	7
6.	Schematic representation of salmon migration through the lower Yukon District 1 from Black River to Anuk River as viewed at the same time of day on three consecutive days	10

Note: Appendix tables and graphs are listed separately in the appendix section.

ABSTRACT

A chinook, chum, and coho salmon test fishing project was conducted on the Lower Yukon River as an aid in management of the fishery for the 19th consecutive year in 1981. Two test fishing camps, Big Eddy and Middle Mouth, were used. From 28 May to 15 July two 8.5 inch and one 5.5 inch set gill nets were fished at Big Eddy, and three 8.5 inch and one 5.5 inch set gill nets were fished at Middle Mouth, targeting chinook and summer chum salmon. Three and two 6-inch mesh gill nets were fished at Big Eddy and Middle Mouth respectively from 16 July to 31 August, targeting fall chum and coho salmon. Migratory timing statistics were calculated and compared with those from commercial data. The mean day for the chinook run was approximately 15 June. Summer chum data was highly variable; mean days ranged from 22 June to 1 July. The fall chum mean date was 2 August and for coho 17 August. Test fishing catch per unit effort (CPUE) was correlated with commercial CPUE. For chinook and fall chum salmon, strong correlations between test fishing and commercial statistical area catches were demonstrated when migration rates were considered. Correlations for summer chum salmon were not significant.

INTRODUCTION

The Yukon River supports a commercial salmon fishery through its entire length. The Alaskan portion of the river is divided into six regulatory districts (Figure 1). Districts 1, 2, and 3, constituting the lower 300 miles, are collectively referred to as the Lower Yukon. These districts, (particularly Districts 1 and 2) account for approximately 90% of the fishing permits, and consequently are allocated a corresponding large portion of the total commercial harvest. The focus of this report is on District 1, at the mouth of the Yukon River.

Although five species of Pacific salmon occur in the Lower Yukon, only chinook, or king *(Oncorhynchus tshawytscha)*, chum *(O. keta)*, and coho *(O. kisutch)*, are commercially significant. The chum run is divided into distinct early (summer chum) and late (fall chum) sub-populations. Drift and set gill nets are the legal commercial gear used in the Lower Yukon.

Management of Yukon salmon stocks is complicated by a number of factors. Turbid water in the main river and the vast size of the drainage (330,000 square miles), one-third of which is in Canada, make it impossible to accurately assess escapement past the intensive Lower Yukon fishery in a timely manner. Run timing and abundance vary dramatically from year to year. Total abundance estimates based on tagging (Trasky 1973) have very wide confidence intervals. Finally, the numerous spawning tributaries, each with discrete stocks, present the manager with the risk of overharvesting an individual population, when managing for the river as a whole.

Management decisions governing harvests are based primarily on commercial catch data gathered within the season. A range of harvest levels, based on historical catches, is established by the Alaska Board of Fisheries as a guideline for management biologists. Proper management requires that the manager assess run timing and strength during the season, and then specify the allowed harvest correspondingly. Adjustments to the harvest are made by restricting or extending fishing times. It is thus essential that the manager make a timely and accurate assessment of run timing, and run strength, early in the season when data is limited.

Run timing is assessed from test fishery data. Commercial harvest summaries and catch per unit effort (CPUE) are generated by computer from fish ticket data which is entered following each fishing period. Relative abundance is evaluated by comparison of present year commercial CPUE with historical CPUE.

In recent years commercial fishing effort and efficiency has shown a dramatic increase. As a result, fishing times have been reduced significantly to maintain the same level of harvest. As commercial fishing periods become shorter, the interpretation and evaluation of the period harvest and CPUE data has become more difficult. As this trend continues, test fishery data will play an increasingly important role in intra-season timing and abundance evaluations.

The objective of this report is to improve the utility of test fishery data. No previous effort has been made to examine the relationship between test fishery and commercial catch data. Correlations between daily test fishery catch and sub-district (statistical area) commercial catches are examined. Additionally,

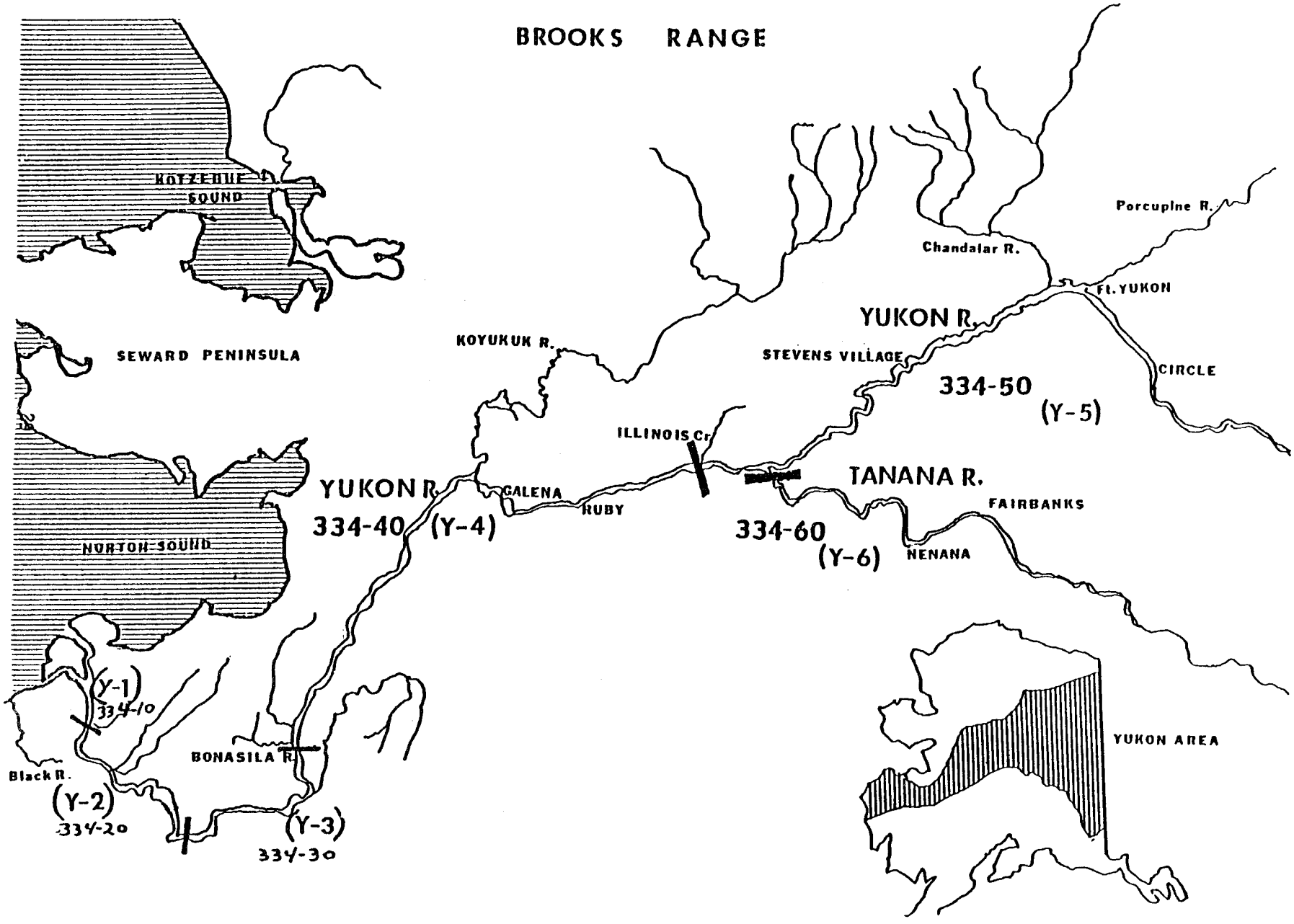


Figure 1. Map of Yukon Management Area showing fishing districts.

run timing is examined using the time density approach described by Mundy (1981, 1982). It is hoped that this will provide a new format for presenting test fishery and commercial harvest statistics as well as contribute to their usefulness.

METHODS

As in 1980, the Lower Yukon test fishing project was conducted from two field camps, Big Eddy and Middle Mouth, located in the delta area (District 1). Big Eddy camp, located on Anuzukanuk Pass, 1.5 miles directly south of Emmonak, supplies data on fish passing through the south mouth (Kwikluak Pass) of the Yukon delta. Middle Mouth camp, located on Chinikluk Slough, near the divergence of the middle mouth (Kawanak Pass) and the north mouth (Apoon Pass), supplies data on fish passing through these areas (see Figure 2).

From late May, when the test fishing begins, to 15 July, the major emphasis is placed on gathering data on chinook salmon, although summer chums are also present at this time. After 15 July, fall chums are the target species. Net sites are leased from commercial fishermen and are fished continuously during periods closed to commercial fishing. The commercial fisherman operates the test net during commercial periods and reports his catches to project personnel. Daily test-net catches are transmitted via radio to the Fish and Game office in Emmonak. Live fish captured in the test nets are released if they appear likely to survive. Net mortalities are given to local subsistence families in Emmonak or Kotlik, or sold to commercial buyers.

Three net sites were operated at Big Eddy prior to 15 July, (the chinook season), two chinook nets (8.5 in. mesh) and one chum net (5.5 in. mesh). After 15 July, only two sites were operated, both 6 in. mesh chum nets. Middle Mouth similarly started the season with three sites, 2 chinook nets, and 1 chum net. A fourth site in the north mouth area was established on 21 June. After 15 July, three sites, all with 6 in. mesh nets, were operated from the Middle Mouth camp. For specific net site locations see Figures 3, 4, and 5.

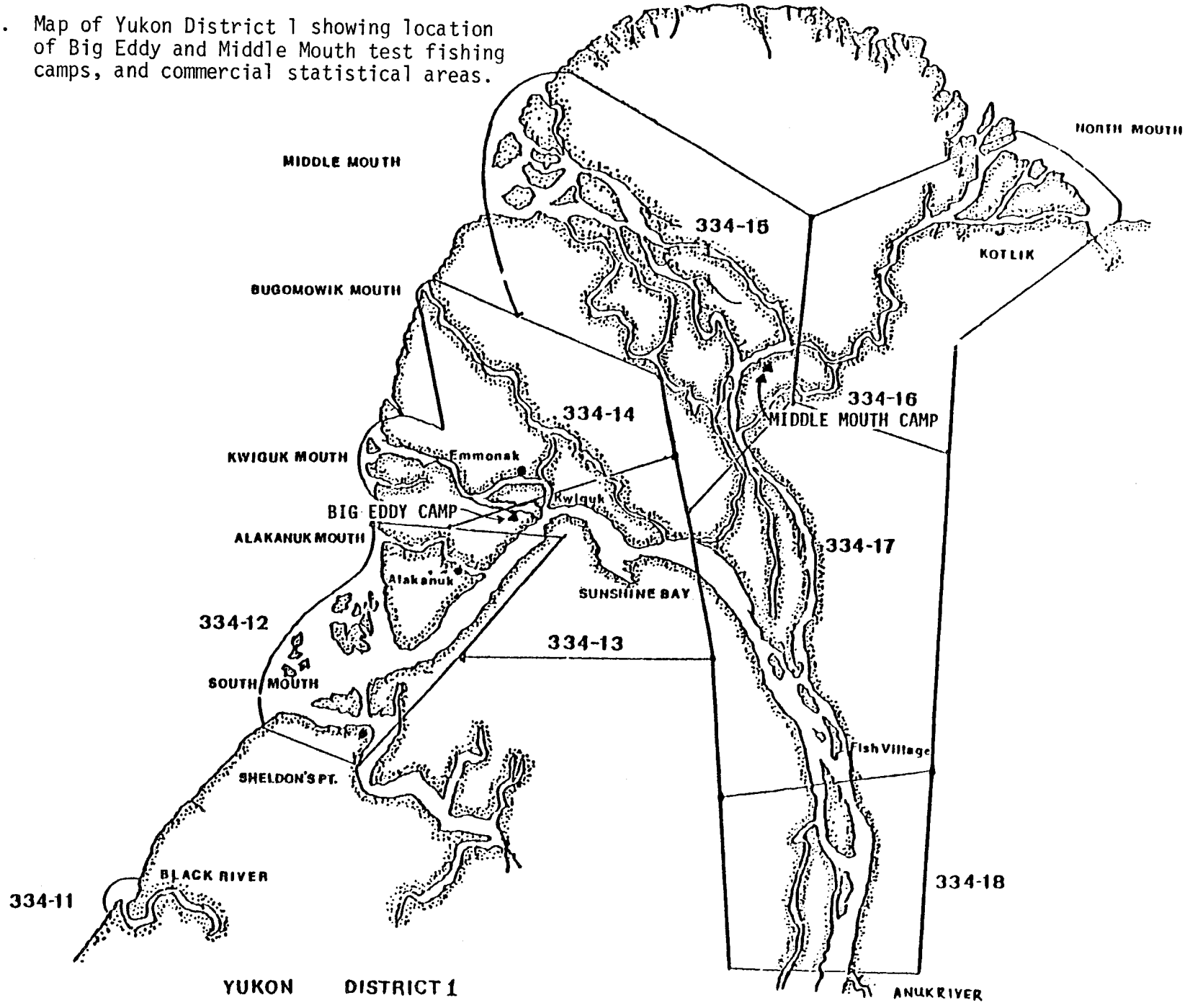
Incidental catches of pink salmon, sockeye salmon, and assorted freshwater fishes were recorded. Total daily catches for these species are presented in Appendix H.

A chinook salmon fecundity study was conducted in 1981 at the Middle Mouth camp. The methods, data, and results from that study are presented elsewhere (Bigler 1981).

Migratory Timing Analysis

The combined daily total catch at each test fishing camp is used as a basic statistic in this analysis of the test fishery data. The combined daily total catch is the sum of the daily catches of one species from all the nets of either Big Eddy or Middle Mouth. Thus, during the chinook season, 8.5 in. mesh net catches are combined with 5.5 in. mesh net catches. As gillnet selectivity is not being tested here, it is argued that each net contributes significant information on the population as a whole. For chinook salmon, for example, 5.5 in. mesh nets will contribute some small chinooks in the migrating population which would escape the 8.5 in. gear.

Figure 2. Map of Yukon District 1 showing location of Big Eddy and Middle Mouth test fishing camps, and commercial statistical areas.



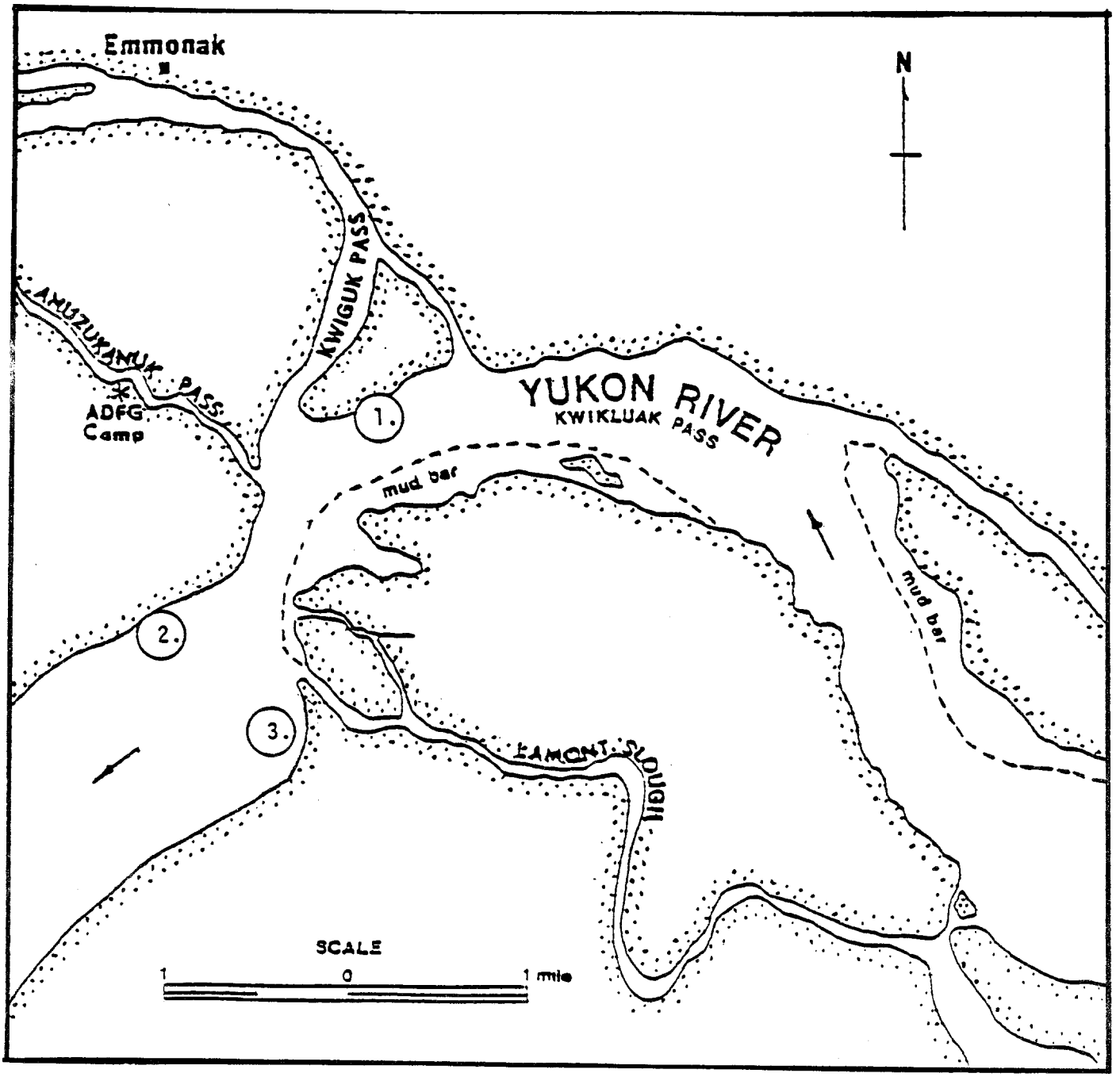


Figure 3. Detailed map of Big Eddy area showing locations of test fishing net sites #1, #2, and #3. Sites #1 and #2 were fished with 8.5 inch mesh gear, and site #3 was fished with 5.5 inch mesh gear from 28 May to 15 July (chinook season). From 16 July to 31 August, sites #1 and #2 were fished with 6 inch mesh gear, site #3 was dropped.

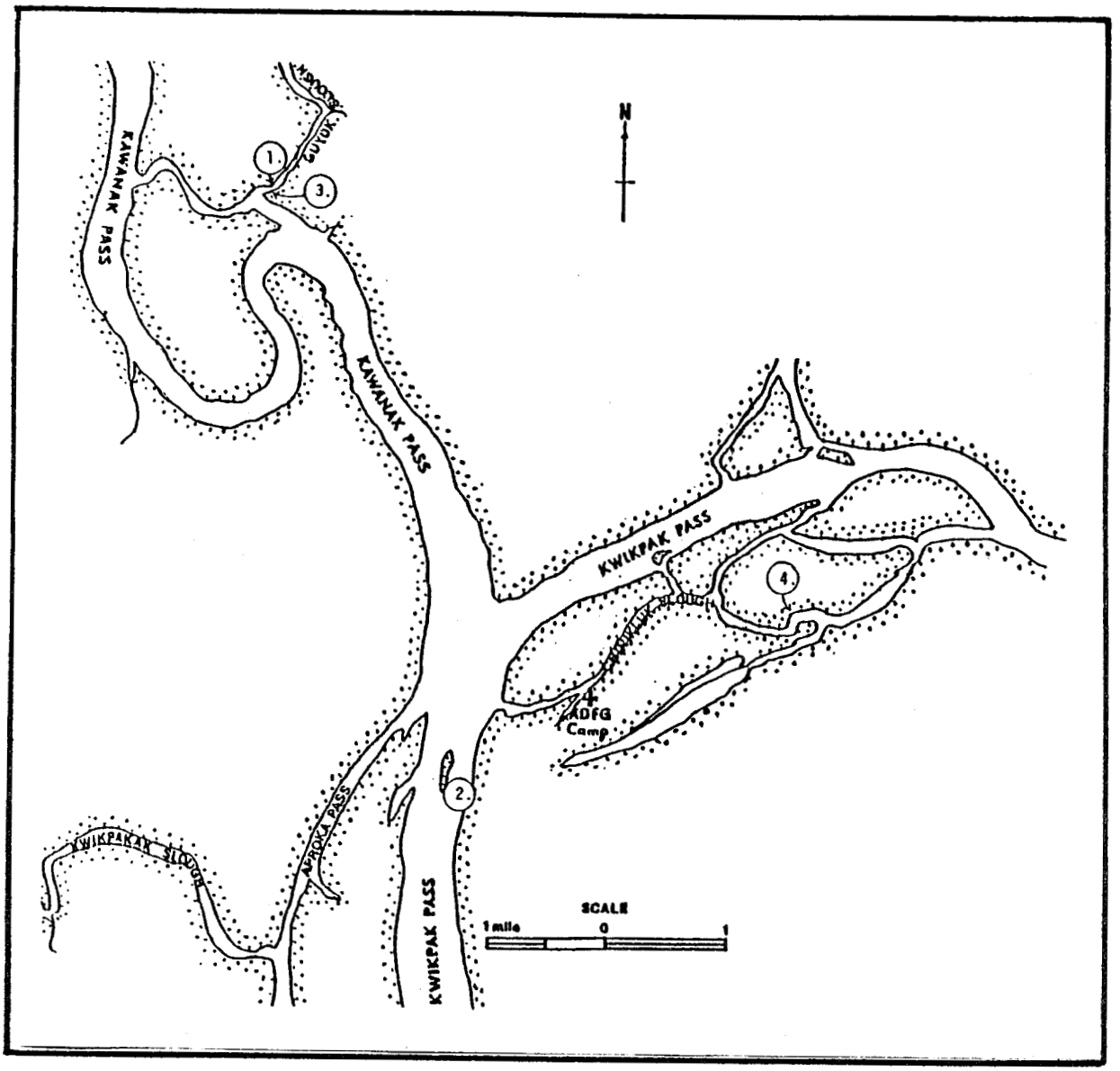


Figure 4. Detailed map of Middle Mouth Camp area showing locations of test fishing net sites #1, #2, #3, and #4, fished from 29 May to 14 July (chinook season). Sites #1, #2, and #4 were 8.5 inch mesh gear, site #3 was fished with 5.5 inch gear.

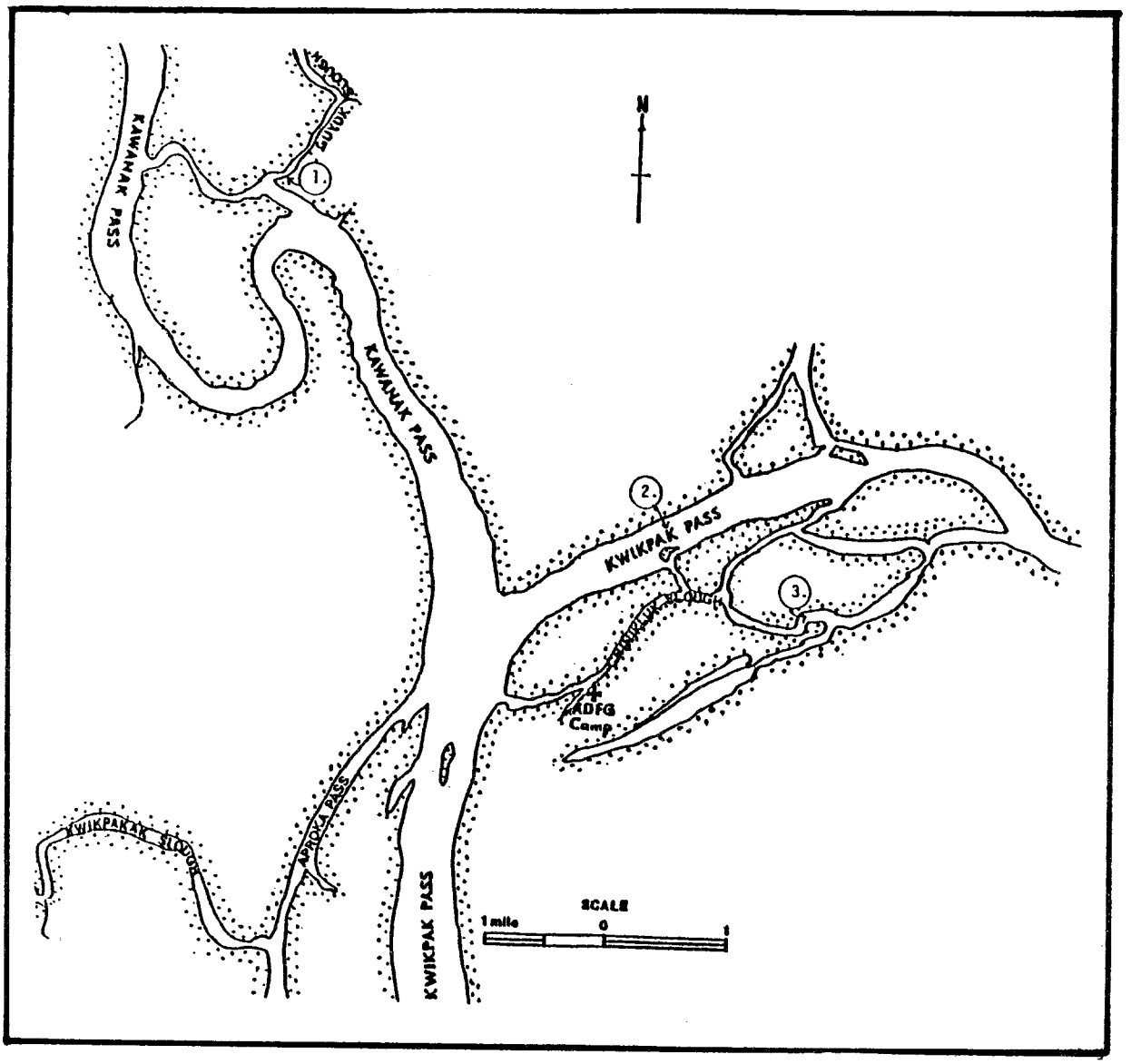


Figure 5. Detailed map of Middle Mouth Camp area showing locations of test fishing set sites #1, #2, #3, fished from 15 July to 30 August (fall chum season). All sites fished with 6 inch mesh gear.

The raw data has been adjusted where necessary, to establish a standardized 24-hour fishing day. Occasionally, through the course of the season, severe storms preclude checking the test nets according to the established schedule. In such cases, the data reported as a single day catch may actually represent, for example, 36 hours, and the following "day's" catch 12 hours. In such cases a constant catch per unit effort is assumed for the longer time period, and that portion of the fish captured after 24 hours is added to the daily catch of the shorter time period.

The basic descriptive statistics, mean day, median, and variance for chinook summer chum, fall chum, and coho, were calculated (Mundy 1979) from Big Eddy and Middle Mouth data. The adjusted data were first converted to daily proportions $P(t)$, where:

$$P(t) = \frac{\text{combined daily catch}}{\text{total catch for season}}$$

The mean day, $\bar{t}$, is calculated as

$$\bar{t} = \sum_{t=1}^{M} t*P(t)$$

and the variance, V, is then calculated as

$$V = \sum_{t=1}^{m} (t-\bar{t})^2 * P(t)$$

The mean day $(\bar{t})$ is an estimate of the central point of the migration. The median is the day on which $P(t)$ - 0.5, and is the day on which 50% of the population has migrated past the point of reference, i.e., the test fishing site. The variance helps to describe the behavior of the run. Large variances occur with runs which are spread over a long period of time; small variances with runs that develop and subside quickly (Mundy 1982).

Mean day, median, and variance can be calculated in an analogous fashion using daily CPUE in place of daily catch. Test fishery CPUE is defined as catch per 25 fathom gill net per hour. Total daily CPUE is calculated as the combined daily catch divided by the sum of the number of hours each net was fished. Daily proportion $[P(t)]$ is thus the total daily CPUE divided by the cumulative season total CPUE.

Total daily CPUE is a more reliable statistic to use in analyses utilizing daily catch. It standardizes the data and makes each point comparable to all others. For example, at Middle Mouth, when the fourth net site was added in the middle of the chinook season, the combined daily catches prior to the addition were not comparable to those after. However, when converted to CPUE, they are. The only

assumption required is that the fourth net is equally productive to the other three.

Commercial harvest data was compiled during the season at the Fish and Game office in Emmonak. District 1 fished the customary schedule of two 24-hour period per week. Fish tickets were collected from the processor 24 hours after the period closure and delivered to the Emmonak office. They were then entered into a data file on a microcomputer. Period catch statistics, organized by statistical area were generated by computer. The migratory timing analysis, yielding mean day, median, and variance, was performed for all species.

Correlation Analysis

Because such importance is placed on District 1 commercial harvest data for management decisions during the season, it is in fact treated as a large-scale test fishery. However, the commercial CPUE for a 24-hour period may not be comparable with Big Eddy or Middle Mouth total daily CPUE because Big Eddy and Middle Mouth data is from a fixed point of reference, a small window on the fishery, while district catch data can be scattered over 81 miles from Black River to Anuk River.

Tagging studies have shown Yukon chinook salmon migration rates to average 26.3 miles per day (Trasky 1973). Assuming that salmon migrate through District 1 at a uniform rate of 27 miles per day, a salmon passing Black River at time 0 will pass the Big Eddy test nets at 36 hours and exit the District at 72 hours. If all salmon which enter District 1 had to pass Black River then the District population at any instant would be the sum of the fish that had passed Black River in the past 72 hours, (three days). Similarly, the salmon exposed to the commercial fishery are those that have migrated past Black River in the previous three days. Using Big Eddy as the point of reference, salmon captured in the fishery at the head of the District passed Big Eddy the day before. The unharvested portion of those migrating through Black River will pass Big Eddy the following day. Refer to the schematic in Figure 6.

To test this model, commercial catch CPUE's for District 1 statistical areas were compared with Big Eddy and Middle Mouth daily CPUE. Statistical area 18 CPUE was compared with Big Eddy and Middle Mouth total daily CPUE from the day before the commercial period. Statistical area 11 (Black River) CPUE was compared with Big Eddy CPUE from the day following the commercial period. Statistical area 12 for Big Eddy and areas 15 and 16 CPUE for Middle Mouth, were compared to the respective test-net CPUE from the same day. In addition, combinations of upper District 1 and lower District 1 statistical area CPUE were tested for correlation with test fishing CPUE.

The chinook and summer chum data were entered into a matrix of 14 variables by 48 days of test fishing. Using the method described above, there were 34 test fishing days that had corresponding statistical area CPUE data. The daily test fishing CPUE for which there were no corresponding commercial CPUE values were deleted from the matrix making it 14 x 34 days. This data matrix is illustrated in Appendix G. The variable names and definitions are listed in the results section.

A similar data matrix was developed for fall chum data. Coho data was not examined, as there were not a sufficient number of commercial data points to make

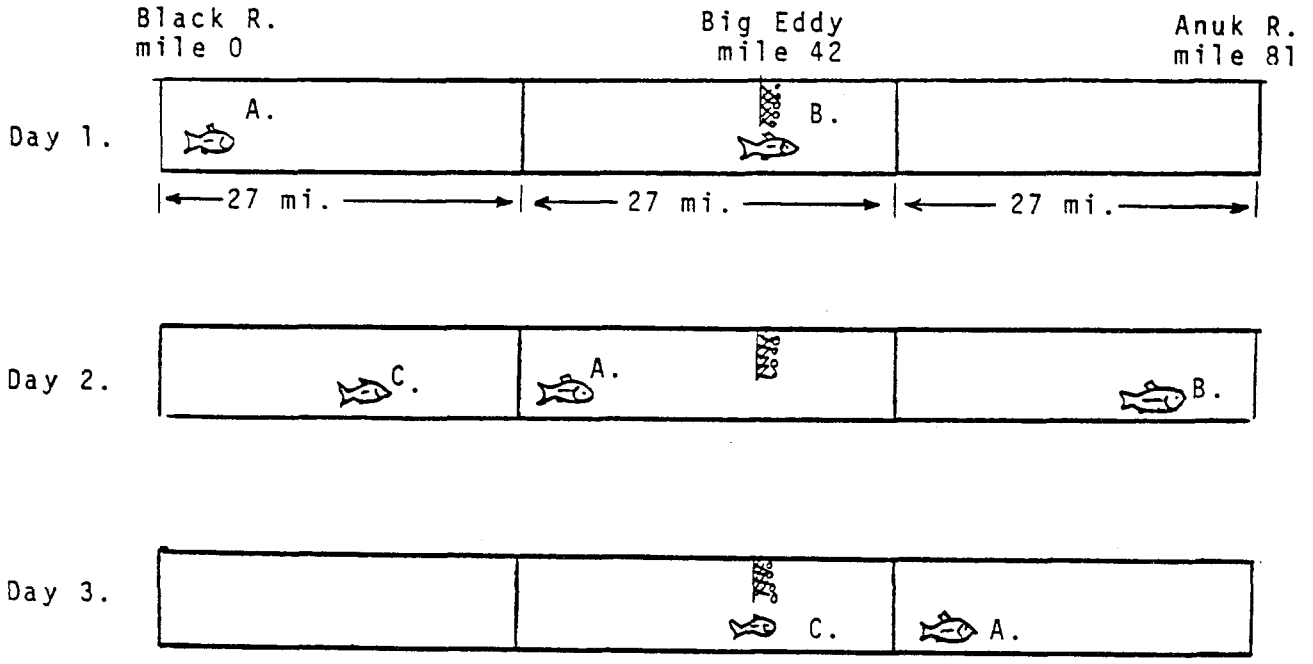


Figure 6. Schematic representation of salmon migration through the lower Yukon District 1 from Black River to Anuk River as viewed at the same time of day on three consecutive days. If District 1 were a straight single channel starting at Black River (Statistical Area 11) and ending at Anuk River (Statistical Area 18), it would be 81 miles long. A fish migrating at 27 miles/day would require 3 days to pass through the channel (Fish A).

The Big Eddy test fishing project located at mile 42 provides an index of relative abundance from a fixed point of reference for 7 days per week. The commercial fishery, however, is only open for two days a week. Breaking down the commercial harvest to CPUE by statistical area provides an index of abundance in isolated areas across the whole district for a single day. For example, if the commercial fishery were open on day No. 2 above, CPUE data can be obtained for the Black River area (Statistical Area 11), Big Eddy area (Statistical Area 12) and Anuk River (Statistical Area 18). Commercial CPUE data from Black River (Statistical Area 11) on day 2 should be representative of the fish that will pass Big Eddy on day 3 (fish C). Similarly Big Eddy test fish CPUE from day 1 should be correlated with the commercial CPUE at Anuk River (Statistical Area 18) on day 3 (fish B).

valid correlations. There were 14 days of fall chum test fishery data for which there were corresponding commercial statistical area values. The 8 variables used in the matrix are listed in the results section.

A statistical analysis for correlations between test fishery and commercial data was performed on both data sets using the MICROSTAT statistical package on a Vector microcomputer.

RESULTS AND DISCUSSION

The basic test fishery data for Big Eddy and Middle Mouth are presented in Appendix A. Period commercial catch statistics, including statistical area CPUE, are presented in Appendix B. In previous years when catch data was compiled by hand, statistical area CPUE was not calculated. However, with the application of microcomputers to fish ticket processing, this catch statistic can be generated with no more effort than is required to calculate the standard catch statistics.

Statistical area CPUE is useful in that it documents the entrance behavior and highly productive areas in the District during fishing periods. A quick scan of the area CPUE figures will indicate which area was the most productive, and which mouth was predominantly used by the fish to enter they system. For example, comparison of the period statistical area CPUE figures for the entire season shows that areas 17 and 18 were consistently productive each period, indicating the effectiveness of the upper district drift fishermen.

Run timing derived from commercial catch and CPUE are presented in Appendix C. A comparison of the results is presented here in Table 1. The time density calculation was performed for both catch and CPUE for comparative purposes. However, it is recommended that in the future, in order to simplify the interpretation and reduce the volume of the data presented in reports such as this, that only CPUE statistics be accepted as the standard term for calculating run timing. As discussed earlier, daily CPUE is generally more representative of the natural migration than are catch figures alone. Bar graphs of daily CPUE by species for Big Eddy and Middle Mouth are presented in Appendix D.

Migratory Timing Analysis

The chinook salmon migration in 1981 was early for the fourth consecutive year with mean dates, as indicated by Big Eddy and Middle Mouth CPUE data, of 16 June and 14 June, respectively. The high variances, 101.9 for Big Eddy and 80.4 for Middle Mouth, reflect the fact that the run was sustained over a long period of time. Comparison of the daily CPUE graphs for Big Eddy and Middle Mouth chinooks (Appendix D1 and D2) also illustrate this.

The mean date of the chinook migration, as indicated by commercial CPUE, occurred on 14 June, which conforms with the test fishing data. However, the variance, 48.8, is considerably lower. This is to be expected due to the fewer number of observations (fishing days) of the commercial season in District 1. Additionally, the bulk of the commercial harvest occurred during the time period from 5 June to 21 June, when no mesh size restrictions were in effect, thus giving the impression of a compressed migration. It should be recognized that both the variance, and the mean date calcualted from commercial data are biased due to the effects of the management strategy.

Table 1. Mean migration dates and variance from 1981 test fishery and commercial catch data for chinook, summer chum, fall chum, and coho salmon.

	Chinook		Summer Chum		Fall Chum		Coho	
	mean day	variance	mean day	variance	mean day	variance	mean day	variance
Big Eddy (CPUE)	6/16	101.9	7/01	81.8	8/03	151.3	8/17	38.8
Big Eddy (catch)	6/16	103.5	7/01	71.2	8/03	147.6	8/18	39.3
Middle Mouth (CPUE)	6/14	80.4	6/22	86.9	8/01	109.9	8/20	27.4
Middle Mouth (catch)	6/15	88.2	6/23	88.0	8/01	109.9	8/20	27.4
Commercial (CPUE)	6/14	48.4	6/28	70.7	7/30	106.1	8/14	10.4
Commercial (catch)	6/15	41.7						

Using the test fishery mean day and variance as the indicator of the natural migration, the commercial harvest mean day and variance can provide a track record of management success. Using this year as an example, the center of the chinook harvest in District 1 occurred at the center of the migration. Table 2 illustrates chinook salmoh migratory timing statistics for the past 19 years.

A significant range (9 days) occurs between the migratory timing mean dates for summer chum at Big Eddy and Middle Mouth (Table 1). This can be attributed primarily to the reduced volume of data for summer chum. As mentioned in the methods section, prior to 15 July the primary objective of the test fishing projects is to gather data on chinook salmon. Only one chum (5.5 in. mesh) net is fished at each site. Chum catches at Big Eddy showed a great deal of variation which could not be correlated with changes in abundance of the natural population. These fluctuations are most likely due to changes in physical factors such as water level, sand bars, storms, and wind direction, which dramatically altered the efficiency of the net. Visual comparison of the daily CPUE graphs, (D-3 and D-4) show that there is little resemblance between the two. Consequently, the run timing information presented here for summer chum salmon must be qualified as being significantly less reliable than the chinook salmon data. It should be noted that the mean date as indicated by commercial fishery CPUE falls within the 9 day range.

After 15 July the priority species for the test fishery projects switches from chinook salmon to fall chum. This is consistent with the management plan which specifies a fall chum guideline harvest after 15 July. As in the past, it is assumed that all chums captured in test nets prior to 15 July are summer chum and those after are fall chum. Fall chums spawn later in isolated spring areas in the upper portion of the Yukon and are generally more robust and ocean-bright than the summer chums, which spawn in the lower river. As both groups represent many spawning stocks there is considerable overlap in both physical character and timing. The 15 July date has been selected after many years experience with the fishery as the best dividing point, recognizing that some fall chums pass the delta area prior to this and some summer chums pass after.

The mean date of migration for fall chums occurred on 3 August at Big Eddy, and 1 August at Middle Mouth (Table 3). Fall chums show a unique migration behavior, in that they pass through the district in compact groups. Four such "schools" are readily obvious in the daily CPUE graphs D-5 and D-6. This accounts for the high variances observed for these data. The mean date for the commercial fishery, 30 July, falls before the mean dates of the test fishery. However, the commercial fishery was closed from 1 August to 13 August; thus a larger portion of the harvest occurred prior to the mean dates indicated by the test fishery. Consequently the commercial CPUE mean date is shifted earlier in time.

The mean day for the coho salmon migration occurred on 17 August at Big Eddy and 20 August at Middle Mouth. The variances are relatively small, 38.8 and 27.4 respectively, as might be expected due to the short duration of the migration. The daily CPUE bar graphs show that the run started to develop about 1 August, peaked near the 18th and was subsiding when the test fishing projects were terminated at the end of the month. The normal behavior of this migration, unlike fall chum, suggests a gradual attenuation past the end of August. Thus the true mean

Table 2. Mean migration dates and variance for chinook salmon test fishery and commercial CPUE, from 1963 to 1981.

	Test Fishing (1)			Commercial Harvest (2)		
Date	Mean Day	Variance	Timing (3)	Mean Day	Variance	Timing
1963	6/17*	29.7	E	6/19	54.9	E
1964	6/25*	27.4	L	6/26	25.8	L
1965	6/20*	17.3	A	6/29	31.3	A
1966	6/25*	16.5	L	6/22	27.5	A
1967	6/22*	109.1	A	6/14	53.7	E
1968	6/18*	51.6	E	6/20	44.9	A
1969	6/14*	53.9	E	6/15	46.2	E
1970	6/21*	52.2	A	6/22	34.7	A
1971	6/26*	31.7	L	6/27	22.3	L
1972	6/24*	60.1	L	6/24	23.9	L
1973	6/20*	65.9	A	6/18	36.6	A
1974	6/13*	55.8	E	6/15	42.9	E
1975	6/26*	25.3	L	6/24	21.8	L
1976	6/29*	13.5	L	6/26	18.1	L
1977	6/28*	24.5	L	6/24	16.7	L
1978	6/13+	90.7	E	6/19	22.5	A
1979	6/10+	131.1	E	6/14	26.3	E
1980	6/15+ (6/19)	62.1 (78.7)	E	6/17	17.2	E
1981	6/16+ (6/14)	101.9 (80.4)	E	6/14	48.8	E

* Flat Island data

\+ Big Eddy data, (Middle Mouth data)

1. Test fishing data from Mundy 1981, Migratory timing of chinook salmon in the lower Yukon River, Alaska. Tables 78-93. Current year data published in this report.

2. Commercial catch data from Mundy 1982, Migratory timing of adult chinook salmon in the lower Yukon, Alaska with respect to fisheries management. Tables 10 and 11.

3. E = early, prior to 18 June
   A = average, 18 June to 23 June
   L = late, after 23 June

Table 3. Mean migration dates and variance for fall chum salmon, test fishery, and commercial CPUE[1], from 1977 to 1981.

	Big Eddy		Middle Mouth		Commercial	
Date	Mean Day	Variance	Mean Day	Variance	Mean Day	Variance
1981	8/03	151.3	8/01	109.9	7/30	106.1
1980	8/04	145.2	8/08	175.8		
1979	8/04[1]	78.1				
1978	8/04[1]	132.9				
1977	8/07[1]	77.5				

[1] Mean day calculated from catch, all others CPUE.

date for the natural population would be a few days later than the mean date calculated from the test fishery data.

Correlation Analysis

Examination of the relationships of daily test fishing CPUE and commercial statistical area CPUE in District 1 produced some interesting correlations, particularly for chinook and fall chum data.

A correlation matrix was produced using 12 variables from the chinook and summer chum data (Table 4). A list of the variable names and the values that they represent is also included. From this table it can quickly be seen where the strong relationships lie. One strong relationship is between the Big Eddy daily chinook CPUE (BEK), and the corresponding commercial single statistical area CPUE (SBEK), where the correlation coefficient is 0.867. When a linear regression is performed using BEK as the independent variable, the resulting slope and Y intercept are 1.556 and -0.219 respectively. The equation for this relationship is:

$$SBEK = 1.556\ BEK - 0.219$$

Standard error of estimate = 0.546
r = 0.867
r-squared = 0.752

If a true linear relationship exists, one would expect that when test fishery catches are zero there would be no or a very small corresponding commercial catch. Thus the Y intercept would be expected to be zero or slightly larger than zero, which is not the case. It should be point out, however, that more than half of the commercial catch data used in developing this regression is from after 21 June when the 6 inch maximum mesh size gear restriction was in effect. The commercial chinook CPUE was therefore correspondingly low for this period of time.

This variability in efficiency of the commercial fleet due to the imposed mesh restrictions was avoided in a second regression which used only data prior to 21 June. This yielded a Y intercept of 0.044 and a correlation coefficient (r) of 0.816. The equation for this relationship is as follows:

$$SBEK = 1.492\ BEK + 0.044$$

Standard error of estimate = 0.653
r = 0.813
r squared = 0.661

Using the Big Eddy daily chinook CPUE from the day before, the statistical area-18 chinook CPUE could be forecast within the season using this equation. Due to the variability in efficiency of net sites from year to year, the regression analysis would have to be performed each season with current-year data.

The correlation between Big Eddy chinook CPUE (BEK) and the combined statistical area CPUE (CBEK) was less significant, r = 0.737.

The Middle Mouth data proved to be less reliable in predicting statistical area CPUE than Big Eddy. The best correlation was between Middle Mouth chinook CPUE

Table 4. Correlation coefficients between test fishery and commercial daily CPUE for chinook and summer chum salmon, 1981.

Variable name[1]	Correlation with BEK	Correlation with BECM	Correlation with MMK	Correlation with MMCM
BEK	1.000			
BECM	-0.127	1.000		
MMK	0.909	-0.308	1.000	
MMCM	0.437	-0.086	0.385	1.000
SBEK	0.867	-0.269	0.846	0.249
SBECM	-0.202	0.151	-0.237	0.133
SMMK	0.754	-0.332	0.740	0.194
SMMCM	-0.317	0.110	-0.165	0.229
CBEK	0.737	-0.323	0.743	0.210
CBECM	-0.174	0.140	-0.217	0.191
CMMK	0.457	-0.267	0.392	-0.015
CMMCM	0.321	0.118	-0.186	-0.129

[1] Variable definitions:

BEK Big Eddy daily chinook CPUE.
BECM Big Eddy daily summer chum CPUE.
MMK Middle Mouth daily chinook CPUE.
MMCM Middle Mouth daily summer chum CPUE.
SBEK Statistical area 11, 12, or 18 commercial chinook CPUE.
SBECM Statistical area 11, 12, or 18 commercial summer chum CPUE.
SMMK Statistical area (15+16) or 18 commercial chinook CPUE.
SMMCM Statistical area (15+16) or 18 commercial summer chum CPUE.
CBEK Combined statistical areas 11, or (12+13+14) or (17+18) commercial chinook CPUE.
CBECM Combined statistical areas 11, or (12+13+14) or (17+18) commercial summer chum CPUE.
CMMK Combined statistical areas (15+16) or (17+18) commercial chinook CPUE.
CMMCM Combined statistical areas (15+16) or (17+18) commercial summer CPUE.

(MMK) and single statistical area commercial chinook CPUE (SMMK), where r = 0.740. The correlations were not as strong using combined statistical areas and only the commercial data prior to 21 June. A close inspection of the commercial catch CPUE for statistical areas 15 and 16 show that significant numbers of chinook salmon passed through the Middle and North Mouth areas between 15 June and 19 June which were not detected by the test nets.

As would be expected from the problems with the summer chum test fishing data discussed earlier, no significant correlations were found between summer chum test fishing CPUE and commercial statistical area CPUE.

The fall chum correlation analysis was handled in a fashion similar to the chinook and summer chum analysis above. Table 5 illustrates the correlation matrix and the variables used. The strongest correlation exists between the daily Middle Mouth CPUE (MMCM) and the single statistical area commercial CPUE statistical area 15 (5MMCM), r = 0.888. When statistical area 16 (north mouth) is used instead, r drops to 0.695 illustrating that the test nets are sampling the middle mouth better than they are the north mouth area. The linear regression between MMCM (independent variable) and 5MMCM (dependent variable) yields the following equation:

$$5MMCM = 4.294\ MMCM + 0.232$$

Standard error of estimate = 1.588
r = 0.888
r squared = 0.789

In contrast to what was seen with the chinook data, the correlations with the combined statistical area CPUE was better than with single statistical areas. The combined statistical area CPUE (CMMCM) correlated with Middle Mouth produced an r value of 0.916. For Big Eddy with combined statistical areas (CBECM), the r value raised to 0.779. The linear regression of MMCM (dependent variable) and CMMCM (independent variable) yields the following equation:

$$CMMCM = 4.027\ MMCM + 0.020$$

Standard error of estimate = 1.258
r = 0.916
r squared = 0.840

The correlation analysis presented here will have limited direct application to intraseason management of the Yukon salmon fishery. Forecast statistical area 18 harvests represent a small unknown population of the total District expected harvest. However, the stongest value lies in documenting and applying statistics to evaluate the test fishery data with relation to the commercial fishery. Hopefully, as a result, both the test fishery and the commercial fishery will be better understood. As with the migratory timing data and the work of Mundy, this can be used as a stepping stone to improve the overall understanding of the Yukon salmon migrations and their interaction with the fishery.

Table 5. Correlation coefficients between test fishery and commercial daily CPUE for fall chum salmon, 1981.

Variable name[1]	Correlation with BECM	Correlation with MMCM
BECM	1.000	
MMCM	0.932	1.000
SBECM	0.709	0.800
5MMCM	0.825	0.888
6MMCM	0.766	0.695
CBECM	0.779	0.847
CMMCM	0.898	0.916

[1] Variable definitions:

BECM	Big Eddy daily fall chum CPUE.
MMCM	Middle Mouth daily fall chum CPUE.
SBECM	Statistical area 12 or 18 commercial fall chum CPUE.
5MMCM	Statistical area 15 or 18 commercial fall chum CPUE.
6MMCM	Statistical area 16 or 18 commercial fall chum CPUE.
CBECM	Combined statistical areas (12+13) or (17+18) commercial fall chum CPUE.
CMMCM	Combined statistical areas (15+16) or (17+18) commercial fall chum CPUE.

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APPENDICES

Appendix A. Test fishery catches and hours fished, 1981.

The tables contained in Appendix A are a print-out of the computer file of the daily test fishing catches by net site, by project. Hours is the number of hours that the net was fishing on that particular day, and is used to calculate CPUE. All nets were set, 25-fathom gill nets. Mesh sizes are summarized below:

28 May to 15 July (chinook season)

Big Eddy	Site No. 1	8.5 inch mesh
	Site No. 2	8.5 inch mesh
	Site No. 3	5.5 inch mesh
Middle Mouth	Site No. 1	8.5 inch mesh
	Site No. 2	8.5 inch mesh
	Site No. 3	5.5 inch mesh
	Site No. 4	8.5 inch mesh

16 July to 31 August (fall chum season)

Big Eddy	Site No. 1	6.0 inch mesh
	Site No. 2	6.0 inch mesh
Middle Mouth	Site No. 1	6.0 inch mesh
	Site No. 2	6.0 inch mesh
	Site No. 3	6.0 inch mesh

Table		Page
A-1	1981 Big Eddy daily chinook catches and hours fished at sites #1, #2, and #3, 28 May to 15 July.	24
A-2	1981 Middle Mouth daily chinook catches and hours fished at sites #1, #2, #3, and #4, 29 May to 14 July.	25
A-3	1981 Big Eddy daily summer chum catches and hours fished at sites #1, #2, and #3, 28 May to 15 July.	26
A-4	1981 Middle Mouth daily summer chum catches and hours fished at sites #1, #2, #3, and #4, 29 May to 14 July.	27
A-5	1981 Big Eddy daily fall chum catches and hours fished at sites #1 and #2, 16 July to 31 August.	28
A-6	1981 Middle Mouth daily fall chum catches and hours fished at sites #1, #2, and #3, 15 July to 30 August.	29
A-7	1981 Big Eddy daily coho catches and hours fished at sites #1 and #2, 16 July to 31 August.	30
A-8	1981 Middle Mouth daily coho catches and hours fished at sites #1, #2, and #3, 15 July to 30 August.	31

Appendix Table A-1. 1981 Big Eddy daily chinook catches and hours fished at sites #1, #2, and #3, 28 May to 15 July.

		site no. 1.		site no. 2.		site no. 3.	
	date	hrs.	catch	hrs.	catch	hrs.	catch
1	5/28	0	0	0	0	5	0
2	5/29	12	0	0	0	24	2
3	5/30	24	4	0	0	24	5
4	5/31	24	10	7	5	24	9
5	6/01	24	12	24	17	20	2
6	6/02	24	4	24	10	24	0
7	6/03	24	21	24	13	24	0
8	6/04	24	22	24	37	24	10
9	6/05	24	53	22	79	18	6
10	6/06	24	5	24	13	6	0
11	6/07	24	39	24	56	24	5
12	6/08	24	83	24	41	18	3
13	6/09	24	14	24	9	6	0
14	6/10	24	81	24	50	24	0
15	6/11	24	51	24	49	18	1
16	6/12	24	13	24	7	6	0
17	6/13	24	29	24	35	24	0
18	6/14	24	21	24	30	24	2
19	6/15	24	52	24	35	18	0
20	6/16	24	27	24	9	6	0
21	6/17	22	13	24	39	24	0
22	6/18	24	68	24	29	18	2
23	6/19	24	20	24	15	6	6
24	6/20	24	42	24	47	24	7
25	6/21	24	25	24	35	24	2
26	6/22	24	14	24	23	23	3
27	6/23	24	4	24	7	24	0
28	6/24	24	7	24	6	24	0
29	6/25	24	18	24	34	24	2
30	6/26	24	14	24	24	24	7
31	6/27	24	11	24	16	24	8
32	6/28	24	13	24	11	24	4
33	6/29	24	22	24	34	24	8
34	6/30	24	2	24	11	24	5
35	7/01	24	11	24	8	24	10
36	7/02	24	7	24	16	24	10
37	7/03	24	1	24	3	24	2
38	7/04	24	5	24	7	24	4
39	7/05	24	10	24	52	24	9
40	7/06	24	14	24	33	24	5
41	7/07	24	2	24	3	24	1
42	7/08	24	3	24	2	24	5
43	7/09	24	4	24	2	24	7
44	7/10	24	0	24	0	24	0
45	7/11	24	0	24	3	24	0
46	7/12	24	0	24	2	24	0
47	7/13	24	1	24	0	24	1
48	7/14	24	0	24	0	24	0
49	7/15	24	1	24	0	24	0
49		1,138	873	1,085	957	1,032	153

Appendix Table A-2. 1981 Middle Mouth daily chinook catches and hours fished at sites #1, #2, #3, and #4, 29 May to 14 July.

	site no. 1.		site no. 2.		site no. 3.		site no. 4.	
date	hrs.	catch	hrs.	catch	hrs.	catch	hrs.	catch
5/29	5	0	5	0	5	0	0	0
5/30	24	2	24	0	24	0	0	0
5/31	24	24	24	4	24	11	0	0
6/01	24	23	24	3	24	6	0	0
6/02	24	16	24	3	24	7	0	0
6/03	24	45	24	6	24	21	0	0
6/04	24	39	24	10	24	26	0	0
6/05	24	72	24	14	24	31	0	0
6/06	24	2	24	6	24	4	0	0
6/07	24	73	24	7	24	33	0	0
6/08	24	91	24	25	24	42	0	0
6/09	24	9	24	6	24	2	0	0
6/10	24	102	24	6	24	45	0	0
6/11	24	58	24	5	18	21	0	0
6/12	24	5	24	8	6	2	0	0
6/13	24	52	24	0	24	15	0	0
6/14	24	33	24	2	24	16	0	0
6/15	24	40	24	2	18	12	0	0
6/16	24	34	24	3	6	2	0	0
6/17	24	30	24	0	24	15	0	0
6/18	24	60	24	6	18	16	0	0
6/19	24	16	24	14	6	1	0	0
6/20	24	46	24	1	24	21	0	0
6/21	24	62	24	2	24	28	24	9
6/22	24	29	24	4	24	30	24	31
6/23	24	14	24	2	24	6	24	16
6/24	24	38	24	13	24	17	24	7
6/25	24	18	24	9	24	26	24	14
6/26	24	13	24	6	24	14	24	6
6/27	24	16	24	8	24	18	24	6
6/28	24	9	24	6	24	9	24	2
6/29	24	19	24	11	24	10	24	16
6/30	24	2	24	5	24	10	24	7
7/01	24	10	24	2	24	4	24	5
7/02	24	7	24	5	24	3	24	4
7/03	24	1	24	4	24	1	24	2
7/04	24	1	24	4	24	5	24	0
7/05	24	3	24	3	24	2	24	2
7/06	24	4	24	2	24	6	24	4
7/07	24	1	24	0	24	0	24	2
7/08	24	1	24	0	24	2	24	2
7/09	24	6	24	5	24	1	24	3
7/10	24	0	24	2	24	0	24	2
7/11	24	3	24	0	24	0	24	0
7/12	24	0	24	1	24	0	24	0
7/13	24	0	24	1	24	0	24	0
7/14	24	0	24	1	24	0	24	0
	1,109	1,129	1,109	227	1,037	541	576	140

Appendix Table A-3. 1981 Big Eddy daily summer chum catches and hours fished at sites #1, #2, and #3, 28 May to 15 July.

	site no. 1.		site no. 2.		site no. 3.	
date	hrs.	catch	hrs.	catch	hrs.	catch
5/28	0	0	0	0	5	2
5/29	12	0	0	0	24	3
5/30	24	0	0	0	24	0
5/31	24	1	7	6	24	3
6/01	24	1	24	4	20	18
6/02	24	0	24	0	24	9
6/03	24	0	24	0	24	2
6/04	24	0	24	2	24	7
6/05	24	0	22	4	18	73
6/06	24	0	24	0	6	1
6/07	24	1	24	8	24	4
6/08	24	0	24	8	18	4
6/09	24	0	24	1	6	3
6/10	24	2	24	20	24	4
6/11	24	2	24	44	18	8
6/12	24	0	24	40	6	1
6/13	24	8	24	77	24	13
6/14	24	3	24	2	24	9
6/15	24	4	24	18	18	8
6/16	24	0	24	1	6	1
6/17	22	0	24	42	24	2
6/18	24	9	24	46	18	3
6/19	24	4	24	17	6	15
6/20	24	9	24	1	24	25
6/21	24	3	24	2	24	11
6/22	24	0	24	2	23	7
6/23	24	0	24	0	24	1
6/24	24	0	24	4	24	1
6/25	24	3	24	3	24	19
6/26	24	1	24	0	24	36
6/27	24	2	24	5	24	47
6/28	24	0	24	3	24	21
6/29	24	5	24	5	24	252
6/30	24	1	24	12	24	243
7/01	24	4	24	31	24	367
7/02	24	3	24	2	24	424
7/03	24	0	24	4	24	168
7/04	24	2	24	4	24	102
7/05	24	12	24	69	24	700
7/06	24	28	24	51	24	586
7/07	24	1	24	3	24	145
7/08	24	3	24	6	24	231
7/09	24	4	24	7	24	278
7/10	24	2	24	0	24	13
7/11	24	2	24	3	24	27
7/12	24	0	24	4	24	49
7/13	24	1	24	4	24	28
7/14	24	1	24	3	24	12
7/15	24	1	24	7	24	4
	1,138	123	1,085	575	1,032	3,990

Appendix Table A-4. 1981 Middle Mouth daily summer chum catches and hours fished at sites #1, #2, #3, and #4, 29 May to 14 July.

	site no. 1.		site no. 2.		site no. 3.		site no. 4.	
date	hrs.	catch	hrs.	catch	hrs.	catch	hrs.	catch
5/29	5	0	5	0	5	0	0	0
5/30	24	0	24	0	24	0	0	0
5/31	24	0	24	1	24	2	0	0
6/01	24	0	24	0	24	1	0	0
6/02	24	0	24	0	24	0	0	0
6/03	24	0	24	0	24	0	0	0
6/04	24	0	24	0	24	15	0	0
6/05	24	0	24	0	24	45	0	0
6/06	24	0	24	0	24	1	0	0
6/07	24	0	24	0	24	4	0	0
6/08	24	1	24	0	24	40	0	0
6/09	24	0	24	0	24	3	0	0
6/10	24	0	24	0	24	82	0	0
6/11	24	2	24	2	18	17	0	0
6/12	24	0	24	3	6	0	0	0
6/13	24	3	24	0	24	53	0	0
6/14	24	0	24	0	24	18	0	0
6/15	24	5	24	0	18	57	0	0
6/16	24	10	24	1	6	33	0	0
6/17	24	2	24	0	24	30	0	0
6/18	24	2	24	1	18	53	0	0
6/19	24	3	24	2	6	2	0	0
6/20	24	16	24	0	24	181	0	0
6/21	24	26	24	0	24	236	24	7
6/22	24	3	24	1	24	67	24	3
6/23	24	1	24	1	24	23	24	1
6/24	24	2	24	3	24	24	24	2
6/25	24	3	24	6	24	24	24	3
6/26	24	1	24	12	24	20	24	5
6/27	24	4	24	5	24	90	24	6
6/28	24	0	24	6	24	27	24	4
6/29	24	2	24	0	24	24	24	2
6/30	24	3	24	2	24	17	24	3
7/01	24	2	24	0	24	23	24	3
7/02	24	0	24	1	24	44	24	1
7/03	24	0	24	3	24	20	24	0
7/04	24	0	24	2	24	14	24	0
7/05	24	1	24	4	24	13	24	0
7/06	24	1	24	2	24	30	24	2
7/07	24	0	24	0	24	14	24	0
7/08	24	0	24	1	24	9	24	0
7/09	24	2	24	2	24	65	24	2
7/10	24	2	24	5	24	21	24	1
7/11	24	1	24	0	24	4	24	3
7/12	24	0	24	3	24	16	24	0
7/13	24	0	24	2	24	15	24	0
7/14	24	0	24	1	24	23	24	0
	1,109	98	1,109	72	1,037	1,500	576	48

Appendix Table A-5. 1981 Big Eddy daily fall chum catches and hours fished from sites #1 and #2, 16 July to 31 August.

	site no. 1.		site no. 2.	
date	hrs.	catch	hrs.	catch
7/16	24	2	24	3
7/17	24	18	24	8
7/18	24	33	24	55
7/19	24	28	24	88
7/20	24	11	24	49
7/21	24	0	24	10
7/22	24	4	24	6
7/23	24	4	24	2
7/24	24	2	24	2
7/25	24	1	24	10
7/26	24	154	24	122
7/27	24	88	24	166
7/28	24	29	24	81
7/29	24	69	24	134
7/30	24	33	24	87
7/31	24	2	24	30
8/01	24	4	24	12
8/02	24	41	24	46
8/03	24	12	24	38
8/04	24	18	24	14
8/05	24	8	24	20
8/06	24	5	24	22
8/07	24	2	24	12
8/08	24	56	24	73
8/09	24	8	24	92
8/10	24	8	24	46
8/11	24	4	24	17
8/12	24	116	24	103
8/13	24	100	24	112
8/14	24	38	24	59
8/15	24	9	24	44
8/16	24	22	24	63
8/17	24	7	24	12
8/18	24	1	24	9
8/19	24	1	24	6
8/20	24	6	24	12
8/21	24	11	24	17
8/22	24	9	24	18
8/23	24	0	24	3
8/24	24	30	24	18
8/25	24	5	24	12
8/26	24	3	24	14
8/27	24	2	24	1
8/28	24	0	24	3
8/29	24	2	24	2
8/30	24	0	24	1
8/31	24	0	24	3
	1,128	1,006	1,128	1,757

Appendix Table A-6. 1981 Middle Mouth daily fall chum catches and hours fished at sites #1, #2, and #3, 15 July to 30 August.

	site no. 1.		site no. 2.		site no. 3.	
date	hrs.	catch	hrs.	catch	hrs.	catch
7/15	24	27	24	13	24	6
7/16	24	12	24	21	24	3
7/17	24	34	24	16	24	12
7/18	24	58	24	31	24	15
7/19	24	32	24	43	24	15
7/20	24	13	24	24	24	19
7/21	24	5	24	0	24	4
7/22	24	1	24	10	24	4
7/23	24	4	24	13	24	2
7/24	24	7	24	7	24	5
7/25	24	2	24	4	24	0
7/26	24	23	24	13	24	5
7/27	24	137	24	21	24	11
7/28	24	51	24	40	24	46
7/29	24	99	24	57	24	21
7/30	24	43	24	49	24	28
7/31	24	11	24	19	24	11
8/01	24	7	24	3	24	3
8/02	24	64	24	12	24	5
8/03	24	35	24	26	24	17
8/04	24	6	24	4	24	10
8/05	24	9	24	4	24	2
8/06	24	16	24	14	24	8
8/07	24	7	24	12	24	20
8/08	24	25	24	16	24	3
8/09	24	9	24	22	24	6
8/10	24	1	24	2	24	0
8/11	24	0	24	0	24	0
8/12	24	70	24	2	24	0
8/13	24	37	24	42	24	7
8/14	24	26	24	22	24	30
8/15	24	4	24	25	24	6
8/16	24	14	24	39	24	8
8/17	24	6	24	17	24	1
8/18	24	7	24	12	24	6
8/19	24	2	24	13	24	0
8/20	24	14	24	7	24	1
8/21	24	11	24	17	24	6
8/22	24	5	24	5	24	7
8/23	24	1	24	5	24	1
8/24	24	1	24	1	24	1
8/25	24	4	24	1	24	1
8/26	24	2	24	0	24	0
8/27	24	0	24	1	24	0
8/28	24	2	24	1	24	1
8/29	24	1	24	0	24	0
8/30	24	1	24	0	24	0
	1,128	946	1,128	706	1,128	357

Appendix Table A-7. 1981 Big Eddy daily coho catches and hours fished at sites #1 and #2, 16 July to 31 August.

	site no. 1.		site no. 2.	
date	hrs.	catch	hrs.	catch
7/16	24	0	24	0
7/17	24	0	24	0
7/18	24	0	24	0
7/19	24	0	24	0
7/20	24	0	24	0
7/21	24	0	24	0
7/22	24	0	24	0
7/23	24	0	24	0
7/24	24	0	24	0
7/25	24	0	24	0
7/26	24	0	24	0
7/27	24	0	24	0
7/28	24	0	24	0
7/29	24	0	24	0
7/30	24	1	24	0
7/31	24	0	24	1
8/01	24	0	24	0
8/02	24	1	24	3
8/03	24	4	24	8
8/04	24	1	24	1
8/05	24	0	24	1
8/06	24	1	24	3
8/07	24	0	24	2
8/08	24	4	24	12
8/09	24	6	24	23
8/10	24	3	24	10
8/11	24	1	24	10
8/12	24	18	24	10
8/13	24	23	24	18
8/14	24	17	24	18
8/15	24	10	24	18
8/16	24	58	24	20
8/17	24	7	24	21
8/18	24	8	24	24
8/19	24	15	24	17
8/20	24	32	24	34
8/21	24	13	24	19
8/22	24	21	24	19
8/23	24	19	24	10
8/24	24	22	24	18
8/25	24	9	24	15
8/26	24	2	24	5
8/27	24	1	24	13
8/28	24	2	24	1
8/29	24	20	24	12
8/30	24	5	24	4
8/31	24	2	24	6
	1,128	326	1,128	376

Appendix Table A-8. 1981 Middle Mouth daily coho catches and hours fished at sites #1, #2, and #3, 15 July to 30 August.

	site no. 1.		site no. 2.		site no. 3.	
date	hrs.	catch	hrs.	catch	hrs.	catch
7/15	24	0	24	0	24	0
7/16	24	0	24	0	24	0
7/17	24	0	24	0	24	0
7/18	24	0	24	0	24	0
7/19	24	0	24	0	24	0
7/20	24	0	24	0	24	0
7/21	24	0	24	0	24	0
7/22	24	0	24	0	24	0
7/23	24	0	24	0	24	0
7/24	24	0	24	0	24	0
7/25	24	0	24	0	24	0
7/26	24	0	24	0	24	0
7/27	24	0	24	2	24	0
7/28	24	0	24	2	24	0
7/29	24	0	24	0	24	0
7/30	24	0	24	0	24	1
7/31	24	0	24	0	24	0
8/01	24	0	24	0	24	0
8/02	24	0	24	0	24	0
8/03	24	0	24	2	24	0
8/04	24	0	24	0	24	0
8/05	24	0	24	0	24	1
8/06	24	0	24	0	24	1
8/07	24	1	24	0	24	1
8/08	24	2	24	0	24	0
8/09	24	0	24	4	24	1
8/10	24	0	24	2	24	0
8/11	24	0	24	2	24	0
8/12	24	5	24	4	24	0
8/13	24	15	24	7	24	1
8/14	24	25	24	22	24	10
8/15	24	6	24	15	24	3
8/16	24	5	24	16	24	4
8/17	24	6	24	27	24	6
8/18	24	4	24	14	24	34
8/19	24	5	24	41	24	11
8/20	24	15	24	30	24	9
8/21	24	14	24	47	24	5
8/22	24	4	24	40	24	4
8/23	24	1	24	43	24	5
8/24	24	5	24	13	24	2
8/25	24	7	24	12	24	6
8/26	24	1	24	8	24	4
8/27	24	1	24	4	24	6
8/28	24	2	24	11	24	5
8/29	24	3	24	13	24	2
8/30	24	8	24	11	24	1
	1,128	135	1,128	392	1,128	123

Appendix B. Commercial catch and CPUE data, 1981.

The tables in Appendix B are reports produced from the commercial fish ticket data files, by the basic program "STATCPUE.BAS" on a Vector Graphics microcomputer.

Table		Page
B-1	1981 Lower Yukon District 1 commercial catch and CPUE by statistical area, period 1, 5 & 6 June.	34
B-2	1981 Lower Yukon District 1 commercial catch and CPUE by statistical area, period 2, 8 & 9 June.	34
B-3	1981 Lower Yukon District 1 commercial catch and CPUE by statistical area, period 3, 11 & 12 June.	35
B-4	1981 Lower Yukon District 1 commercial catch and CPUE by statistical area, period 4, 15 & 16 June.	35
B-5	1981 Lower Yukon District 1 commercial catch and CPUE by statistical area, period 5, 18 & 19 June.	36
B-6	1981 Lower Yukon District 1 commercial catch and CPUE by statistical area, period 6, 22 & 23 June.	36
B-7	1981 Lower Yukon District 1 commercial catch and CPUE by statistical area, period 7, 25 & 26 June.	37
B-8	1981 Lower Yukon District 1 commercial catch and CPUE by statistical area, period 8, 29 & 30 June.	37
B-9	1981 Lower Yukon District 1 commercial catch and CPUE by statistical area, period 9, 2 & 3 July.	38
B-10	1981 Lower Yukon District 1 commercial catch and CPUE by statistical area, period 10, 6 & 7 July.	38
B-11	1981 Lower Yukon District 1 commercial catch and CPUE by statistical area, period 11, 9 & 10 July.	39
B-12	1981 Lower Yukon District 1 commercial catch and CPUE by statistical area, period 12, 13 & 14 July.	39
B-13	1981 Lower Yukon District 1 commercial catch and CPUE by statistical area, period 13, 16 & 17 July.	
B-14	1981 Lower Yukon District 1 commercial catch and CPUE by statistical area, period 14, 20 & 21 July.	40
B-15	1981 Lower Yukon District 1 commercial catch and CPUE by statistical area, period 15, 23 & 24 July.	41

Appendix B. Commercial catch and CPUE data, 1981 (continued)

Table		Page
B-16	1981 Lower Yukon District 1 commercial catch and CPUE by statistical area, period 16, 27 & 28 July.	41
B-17	1981 Lower Yukon District 1 commercial catch and CPUE by statistical area, period 17, 30 & 31 July.	42
B-18	1981 Lower Yukon District 1 commercial catch and CPUE by statistical area, period 18, 13 & 14 August.	42
B-19	1981 Lower Yukon District 1 commercial catch and CPUE by statistical area, period 19, 17 & 18 August.	43

Appendix Table B-1. 1981 Lower Yukon District 1 commercial catch and CPUE by statistical area, period 1, 5 & 6 June.

DISTRICT: Y- 1 PERIOD: 6/05-6/06 LENGTH: 24 HRS.

STAT	BOATS	KINGS	CPUE	COHOS	CPUE	CHUMS	CPUE
11	24	1,191	2.07	0	0.00	252	0.44
12	69	1,025	0.62	0	0.00	524	0.32
13	20	562	1.17	0	0.00	334	0.70
14	45	863	0.80	0	0.00	100	0.09
15	76	2,168	1.19	0	0.00	150	0.08
16	30	720	1.00	0	0.00	36	0.05
17	65	2,236	1.43	0	0.00	417	0.27
18	35	2,352	2.80	0	0.00	236	0.28
TOTALS	311	11,117	1.49	0	0.00	2,049	0.27

Appendix Table B-2. 1981 Lower Yukon District 1 commercial catch and CPUE by statistical area, period 2, 8 & 9 June.

DISTRICT: Y- 1 PERIOD: 6/08-6/09 LENGTH: 24 HRS.

STAT	BOATS	KINGS	CPUE	COHOS	CPUE	CHUMS	CPUE
11	29	1,815	2.61	0	0.00	975	1.40
12	110	2,461	0.93	0	0.00	1,885	0.71
13	14	344	1.02	0	0.00	308	0.92
14	49	1,250	1.06	0	0.00	275	0.23
15	76	1,858	1.02	0	0.00	302	0.17
16	30	801	1.11	0	0.00	255	0.35
17	80	4,465	2.33	0	0.00	1,380	0.72
18	33	2,621	3.31	0	0.00	872	1.10
TOTALS	350	15,615	1.86	0	0.00	6,252	0.74

Appendix Table B-3. 1981 Lower Yukon District 1 commercial catch and CPUE by statistical area, period 3, 11 & 12 June.

DISTRICT: Y- 1 PERIOD: 6/11-6/12 LENGTH: 24 HRS.

STAT	BOATS	KINGS	CPUE	COHOS	CPUE	CHUMS	CPUE
11	35	1,998	2.38	0	0.00	8,059	9.59
12	108	1,793	0.69	0	0.00	9,978	3.85
13	23	409	0.74	0	0.00	1,782	3.23
14	53	1,341	1.05	0	0.00	2,070	1.63
15	70	1,439	0.86	0	0.00	396	0.24
16	45	1,004	0.93	0	0.00	50	0.05
17	100	4,488	1.87	0	0.00	5,840	2.43
18	29	2,011	2.89	0	0.00	1,242	1.78
TOTALS	370	14,483	1.63	0	0.00	29,417	3.31

Appendix Table B-4. 1981 Lower Yukon District 1 commercial catch and CPUE by statistical area, period 4, 15 & 16 June.

DISTRICT: Y- 1 PERIOD: 6/15-6/16 LENGTH: 24 HRS.

STAT	BOATS	KINGS	CPUE	COHOS	CPUE	CHUMS	CPUE
11	20	124	0.26	0	0.00	580	1.21
12	105	1,401	0.56	0	0.00	2,788	1.11
13	19	575	1.26	0	0.00	291	0.64
14	58	2,262	1.63	0	0.00	942	0.68
15	77	5,665	3.07	0	0.00	4,738	2.56
16	73	4,959	2.83	0	0.00	2,150	1.23
17	102	2,300	0.94	0	0.00	1,877	0.77
18	34	1,018	1.25	0	0.00	635	0.78
TOTALS	390	18,304	1.96	0	0.00	14,001	1.50

Appendix Table B-5. 1981 Lower Yukon District 1 commercial catch and CPUE by statistical area, period 5, 18 & 19 June.

DISTRICT: Y- 1 PERIOD: 6/18-6/19 LENGTH: 24 HRS.

STAT	BOATS	KINGS	CPUE	COHOS	CPUE	CHUMS	CPUE
11	36	972	1.13	0	0.00	9,224	10.68
12	127	4,098	1.34	0	0.00	24,131	7.92
13	23	712	1.29	0	0.00	1,420	2.57
14	38	2,417	2.65	0	0.00	2,731	2.99
15	70	5,715	3.40	0	0.00	6,557	3.90
16	64	5,667	3.69	0	0.00	6,385	4.16
17	90	6,639	3.07	0	0.00	9,353	4.33
18	28	2,299	3.42	0	0.00	3,372	5.02
TOTALS	396	28,519	3.00	0	0.00	63,173	6.65

Appendix Table B-6. 1981 Lower Yukon District 1 commercial catch and CPUE by statistical area, period 6, 22 & 23 June.

DISTRICT: Y- 1 PERIOD: 6/22-6/23 LENGTH: 24 HRS.

STAT	BOATS	KINGS	CPUE	COHOS	CPUE	CHUMS	CPUE
11	25	35	0.06	0	0.00	550	0.92
12	77	248	0.13	0	0.00	2,250	1.22
13	14	85	0.25	0	0.00	759	2.26
14	25	112	0.19	0	0.00	745	1.24
15	75	1,373	0.76	0	0.00	4,662	2.59
16	54	1,198	0.92	0	0.00	5,088	3.93
17	87	868	0.42	0	0.00	15,331	7.34
18	28	238	0.35	0	0.00	5,510	8.20
TOTALS	322	4,157	0.54	0	0.00	34,895	4.52

Appendix Table B-7. 1981 Lower Yukon District 1 commercial catch and CPUE by statistical area, period 7, 25 & 26 June.

DISTRICT: Y- 1 PERIOD: 6/25-6/26 LENGTH: 24 HRS.

STAT	BOATS	KINGS	CPUE	COHOS	CPUE	CHUMS	CPUE
11	34	35	0.04	0	0.00	2,164	2.65
12	118	564	0.20	0	0.00	30,234	10.68
13	20	88	0.18	0	0.00	2,380	4.96
14	88	517	0.24	0	0.00	27,547	13.04
15	73	857	0.49	0	0.00	20,770	11.86
16	35	278	0.33	0	0.00	8,645	10.29
17	90	377	0.17	0	0.00	31,981	14.81
18	27	185	0.29	0	0.00	13,257	20.46
TOTALS	378	2,901	0.32	0	0.00	136,978	15.10

Appendix Table B-8. 1981 Lower Yukon District 1 commercial catch and CPUE by statistical area, period 8, 29 & 30 June.

DISTRICT: Y- 1 PERIOD: 6/29-6/30 LENGTH: 24 HRS.

STAT	BOATS	KINGS	CPUE	COHOS	CPUE	CHUMS	CPUE
11	7	33	0.20	0	0.00	598	3.56
12	91	528	0.24	0	0.00	21,263	9.74
13	23	95	0.17	0	0.00	4,953	8.97
14	33	98	0.12	0	0.00	8,322	10.51
15	55	319	0.24	0	0.00	8,766	6.64
16	23	115	0.21	0	0.00	6,407	11.61
17	80	310	0.16	0	0.00	8,742	4.55
18	14	52	0.15	0	0.00	1,255	3.74
TOTALS	264	1,550	0.24	0	0.00	60,306	9.52

Appendix Table B-9. 1981 Lower Yukon District 1 commercial catch and CPUE by statistical area, period 9, 2 & 3 July.

DISTRICT: Y- 1 PERIOD: 7/02-7/03 LENGTH: 24 HRS.

STAT	BOATS	KINGS	CPUE	COHOS	CPUE	CHUMS	CPUE
11	3	9	0.13	0	0.00	495	6.88
12	105	465	0.18	1	0.00	30,074	11.93
13	24	51	0.09	0	0.00	4,315	7.49
14	65	131	0.08	0	0.00	7,034	4.51
15	53	121	0.10	0	0.00	4,010	3.15
16	38	154	0.17	0	0.00	3,328	3.65
17	92	183	0.08	0	0.00	10,066	4.56
18	24	64	0.11	0	0.00	5,166	8.97
TOTALS	334	1,178	0.15	1	0.00	64,488	8.04

Appendix Table B-10. 1981 Lower Yukon District 1 commercial catch and CPUE by statistical area, period 10, 6 & 7 July.

DISTRICT: Y- 1 PERIOD: 7/06-7/07 LENGTH: 24 HRS.

STAT	BOATS	KINGS	CPUE	COHOS	CPUE	CHUMS	CPUE
11	0	0	0.00	0	0.00	0	0.00
12	92	168	0.08	0	0.00	18,073	8.19
13	17	46	0.11	0	0.00	3,108	7.62
14	42	28	0.03	0	0.00	4,209	4.18
15	47	94	0.08	1	0.00	3,528	3.13
16	36	177	0.20	0	0.00	5,361	6.20
17	97	129	0.06	0	0.00	9,465	4.07
18	17	19	0.05	0	0.00	1,706	4.18
TOTALS	296	661	0.09	1	0.00	45,450	6.40

Appendix Table B-11. 1981 Lower Yukon District 1 commercial catch and CPUE by statistical area, period 11, 9 & 10 July.

DISTRICT: Y- 1 PERIOD: 7/09-7/10 LENGTH: 24 HRS.

STAT	BOATS	KINGS	CPUE	COHOS	CPUE	CHUMS	CPUE
11	1	4	0.17	0	0.00	110	4.58
12	101	76	0.03	0	0.00	9,776	4.03
13	12	10	0.03	0	0.00	670	2.33
14	38	15	0.02	0	0.00	1,712	1.88
15	44	67	0.06	0	0.00	3,573	3.38
16	47	90	0.08	1	0.00	7,235	6.41
17	72	70	0.04	0	0.00	6,164	3.57
18	15	10	0.03	0	0.00	1,475	4.10
TOTALS	290	342	0.05	1	0.00	30,715	4.41

Appendix Table B-12. 1981 Lower Yukon District 1 commercial catch and CPUE by statistical area, period 12, 13 & 14 July.

DISTRICT: Y- 1 PERIOD: 7/13-7/14 LENGTH: 24 HRS.

STAT	BOATS	KINGS	CPUE	COHOS	CPUE	CHUMS	CPUE
11	13	5	0.02	0	0.00	1,628	5.22
12	87	25	0.01	0	0.00	6,525	3.13
13	10	3	0.01	0	0.00	315	1.31
14	23	6	0.01	1	0.00	1,082	1.96
15	40	29	0.03	0	0.00	4,250	4.43
16	31	81	0.11	3	0.00	3,307	4.44
17	42	29	0.03	0	0.00	2,139	2.12
18	8	8	0.04	0	0.00	659	3.43
TOTALS	241	186	0.03	4	0.00	19,905	3.44

Appendix Table B-13. 1981 Lower Yukon District 1 commercial catch and CPUE by statistical area, period 13, 16 & 17 July.

DISTRICT: Y- 1 PERIOD: 7/16-7/17 LENGTH: 24 HRS.

STAT	BOATS	KINGS	CPUE	COHOS	CPUE	CHUMS	CPUE
11	6	1	0.01	0	0.00	572	3.97
12	99	23	0.01	0	0.00	16,649	7.01
13	5	1	0.01	2	0.02	351	2.93
14	40	7	0.01	0	0.00	4,618	4.81
15	55	24	0.02	1	0.00	5,163	3.91
16	28	25	0.04	1	0.00	1,784	2.65
17	48	15	0.01	11	0.01	2,756	2.39
18	7	1	0.01	0	0.00	407	2.42
TOTALS	264	97	0.02	15	0.00	32,300	5.10

Appendix Table B-14. 1981 Lower Yukon District 1 commercial catch and CPUE by statistical area, period 14, 20 & 21 July.

DISTRICT: Y- 1 PERIOD: 7/20-7/21 LENGTH: 24 HRS.

STAT	BOATS	KINGS	CPUE	COHOS	CPUE	CHUMS	CPUE
11	3	0	0.00	0	0.00	179	2.49
12	63	7	0.00	0	0.00	1,550	1.03
13	7	3	0.02	0	0.00	207	1.23
14	19	6	0.01	0	0.00	398	0.87
15	31	15	0.02	1	0.00	659	0.89
16	22	4	0.01	0	0.00	363	0.69
17	41	6	0.01	0	0.00	1,530	1.55
18	19	1	0.00	0	0.00	1,069	2.34
TOTALS	191	42	0.01	1	0.00	5,955	1.30

Appendix Table B-15. 1981 Lower Yukon District 1 commercial catch and CPUE by statistical area 15, 23 & 24 July.

DISTRICT: Y- 1 PERIOD: 7/23-7/24 LENGTH: 24 HRS.

STAT	BOATS	KINGS	CPUE	COHOS	CPUE	CHUMS	CPUE
11	2	0	0.00	0	0.00	57	1.19
12	24	3	0.01	0	0.00	366	0.64
13	1	0	0.00	0	0.00	5	0.21
14	1	0	0.00	0	0.00	3	0.13
15	31	4	0.01	0	0.00	601	0.81
16	0	0	0.00	0	0.00	0	0.00
17	12	7	0.02	0	0.00	286	0.99
18	3	0	0.00	0	0.00	21	0.29
TOTALS	67	14	0.01	0	0.00	1,339	0.83

Appendix Table B-16. 1981 Lower Yukon District 1 commercial catch and CPUE by statistical area 16, 27 & 28 July.

STAT	BOATS	KINGS	CPUE	COHOS	CPUE	CHUMS	CPUE
11	0	0	0.00	0	0.00	0	0.00
12	101	2	0.00	13	0.01	13,911	5.74
13	8	0	0.00	0	0.00	967	5.04
14	54	2	0.00	17	0.01	8,478	6.54
15	64	11	0.01	38	0.02	11,130	7.25
16	23	9	0.02	0	0.00	1,195	2.16
17	68	5	0.00	6	0.00	17,068	10.46
18	21	0	0.00	0	0.00	4,536	9.00
TOTALS	287	29	0.00	74	0.01	57,285	8.32

Appendix Table B-17. 1981 Lower Yukon District 1 commercial catch and CPUE by statistical area, period 17, 30 & 31 July.

DISTRICT: Y- 1 PERIOD: 7/30-7/31 LENGTH: 24 HRS.

STAT	BOATS	KINGS	CPUE	COHOS	CPUE	CHUMS	CPUE
11	0	0	0.00	0	0.00	0	0.00
12	86	3	0.00	15	0.01	4,161	2.02
13	7	1	0.01	3	0.02	385	2.29
14	27	0	0.00	6	0.01	960	1.48
15	56	9	0.01	20	0.01	2,675	1.99
16	10	0	0.00	0	0.00	157	0.65
17	76	5	0.00	10	0.01	8,855	4.85
18	31	0	0.00	10	0.01	5,965	8.02
TOTALS	254	18	0.00	64	0.01	23,158	3.80

Appendix Table B-18. 1981 Lower Yukon District 1 commercial catch and CPUE by statistical area, period 18, 13 & 14 August.

DISTRICT: Y- 1 PERIOD: 8/13-8/14 LENGTH: 24 HRS.

STAT	BOATS	KINGS	CPUE	COHOS	CPUE	CHUMS	CPUE
11	0	0	0.00	0	0.00	0	0.00
12	58	2	0.00	1,877	1.35	12,309	8.84
13	28	0	0.00	631	0.94	3,856	5.74
14	43	0	0.00	1,144	1.11	4,083	3.96
15	73	2	0.00	2,631	1.50	9,174	5.24
16	0	0	0.00	0	0.00	0	0.00
17	50	0	0.00	1,512	1.26	8,742	7.29
18	23	0	0.00	517	0.94	5,507	9.98
TOTALS	251	4	0.00	8,312	1.38	43,671	7.25

Appendix Table B-19. 1981 Lower Yukon District 1 commercial catch and CPUE by statistical area, period 19, 17 & 18 August.

DISTRICT: Y- 1 PERIOD: 8/17-8/18 LENGTH: 24 HRS.

STAT	BOATS	KINGS	CPUE	COHOS	CPUE	CHUMS	CPUE
11	0	0	0.00	0	0.00	0	0.00
12	46	0	0.00	1,312	1.19	848	0.77
13	15	1	0.00	147	0.41	307	0.85
14	18	0	0.00	387	0.90	250	0.58
15	56	1	0.00	1,285	0.96	1,133	0.84
16	0	0	0.00	0	0.00	0	0.00
17	28	0	0.00	1,163	1.73	681	1.01
18	12	0	0.00	387	1.34	776	2.69
TOTALS	166	2	0.00	4,681	1.17	3,995	1.00

Appendix C. Test fishery daily, cumulative, and relative CPUE, 1981.

The tables in Appendix C are computer print-outs produced from the test fishing raw data file by the programs "TESTDATA.BAS" and "TESTCPUE.BAS", on a Vector Graphics microcomputer. Each day is sequentially assigned a day number, with the first day of data being number 1. When the mean day number is calculated it then must be cross referenced to it corresponding date. Mean days are underlined in the tables.

Table		Page
C-1	1981 Big Eddy daily chinook salmon catches with daily and cumulative proportion, mean day,and variance.	46
C-2	1981 Big Eddy daily chinook salmon CPUE with daily cumulative proportion, mean day, and variance.	47
C-3	1981 Middle Mouth daily chinook salmon catches with daily and cumulative proportion, mean day, and variance.	48
C-4	1981 Middle Mouth daily chinook salmon CPUE with daily and cumulative proportion, mean day, and variance.	49
C-5	1981 Big Eddy daily summer chum salmon catches with daily and cumulative proportion, mean day, and variance.	50
C-6	1981 Big Eddy daily summer chum salmon CPUE with daily and cumulative proportion, mean day, and variance.	51
C-7	1981 Middle Mouth daily summer chum salmon catches with daily and cumulative proportion, mean day, and variance.	52
C-8	1981 Middle Mouth daily summer chum salmon CPUE with daily and cumulative proportion, mean day, and variance.	53
C-9	1981 Big Eddy daily fall chum salmon catches with daily and cumulative proportion, mean day, and variance.	54
C-10	1981 Big Eddy daily fall chum salmon CPUE with daily and cumulative proportion, mean day, and variance.	55
C-11	1981 Middle Mouth daily fall chum salmon catches with daily and cumulative proportion, mean day, and variance.	56
C-12	1981 Middle Mouth daily fall chum salmon CPUE with daily and cumulative proportion, mean day, and variance.	57
C-13	1981 Big Eddy daily coho salmon catches with daily and cumulative proportion, mean day, and variance.	58
C-14	1981 Big Eddy daily coho salmon CPUE with daily and cumulative proportion, mean day, and variance.	59

Appendix C. Test fishery daily, cumulative, and relative CPUE, 1981 (continued).

Table		Page
C-15	1981 Middle Mouth daily coho salmon catches with daily and cumulative proportion, mean day, and variance.	60
C-16	1981 Middle Mouth daily coho salmon CPUE with daily and cumulative proportion, mean day, and variance.	61

Appendix Table C-1. 1981 Big Eddy daily chinook salmon catches with daily and cumulative proportion, mean day, and variance.

Day No.	Date	Site No.1	Site No.2	Site No.3	Site No.4	Total All Sites	Cum. Total	Daily Prop.	Cum. Prop.
1	5/28	0	0	0	0	0	0	0.000	0.000
2	5/29	0	0	2	0	2	2	0.001	0.001
3	5/30	4	0	5	0	9	11	0.005	0.006
4	5/31	10	5	9	0	24	35	0.012	0.018
5	6/01	12	17	2	0	31	66	0.016	0.033
6	6/02	4	10	0	0	14	80	0.007	0.040
7	6/03	21	13	0	0	34	114	0.017	0.057
8	6/04	22	37	10	0	69	183	0.035	0.092
9	6/05	53	79	6	0	138	321	0.070	0.162
10	6/06	5	13	0	0	18	339	0.009	0.171
11	6/07	39	56	5	0	100	439	0.050	0.221
12	6/08	83	41	3	0	127	566	0.064	0.285
13	6/09	14	9	0	0	23	589	0.012	0.297
14	6/10	81	50	0	0	131	720	0.066	0.363
15	6/11	51	49	1	0	101	821	0.051	0.414
16	6/12	13	7	0	0	20	841	0.010	0.424
17	6/13	29	35	0	0	64	905	0.032	0.456
18	6/14	21	30	2	0	53	958	0.027	0.483
19	6/15	52	35	0	0	87	1045	0.044	0.527
20	6/16	27	9	0	0	36	1081	0.018	0.545
21	6/17	13	39	0	0	52	1133	0.026	0.571
22	6/18	68	29	2	0	99	1232	0.050	0.621
23	6/19	20	15	6	0	41	1273	0.021	0.642
24	6/20	42	47	7	0	96	1369	0.048	0.690
25	6/21	25	35	2	0	62	1431	0.031	0.722
26	6/22	14	23	3	0	40	1471	0.020	0.742
27	6/23	4	7	0	0	11	1482	0.006	0.747
28	6/24	7	6	0	0	13	1495	0.007	0.754
29	6/25	18	34	2	0	54	1549	0.027	0.781
30	6/26	14	24	7	0	45	1594	0.023	0.804
31	6/27	11	16	8	0	35	1629	0.018	0.821
32	6/28	13	11	4	0	28	1657	0.014	0.836
33	6/29	22	34	8	0	64	1721	0.032	0.868
34	6/30	2	11	5	0	18	1739	0.009	0.877
35	7/01	11	8	10	0	29	1768	0.015	0.892
36	7/02	7	16	10	0	33	1801	0.017	0.908
37	7/03	1	3	2	0	6	1807	0.003	0.911
38	7/04	5	7	4	0	16	1823	0.008	0.919
39	7/05	10	52	9	0	71	1894	0.036	0.955
40	7/06	14	33	5	0	52	1946	0.026	0.981
41	7/07	2	3	1	0	6	1952	0.003	0.984
42	7/08	3	2	5	0	10	1962	0.005	0.989
43	7/09	4	2	7	0	13	1975	0.007	0.996
44	7/10	0	0	0	0	0	1975	0.000	0.996
45	7/11	0	3	0	0	3	1978	0.002	0.997
46	7/12	0	2	0	0	2	1980	0.001	0.998
47	7/13	1	0	1	0	2	1982	0.001	0.999
48	7/14	0	0	0	0	0	1982	0.000	0.999
49	7/15	1	0	0	0	1	1983	0.001	1.000
		873	957	153	0	1983			

MEAN DAY NO. = 20.4 VARIANCE = 103.5

Appendix Table C-2. 1981 Big Eddy daily chinook salmon CPUE with daily cumulative proportion, mean day, and variance.

Day No.	Date	Site No.1 CPUE	Site No.2 CPUE	Site No.3 CPUE	Site No.4 CPUE	Total CPUE All Sites	Cum. Total	Daily Prop.	Cum. Prop.
1	5/28	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000
2	5/29	0.00	0.00	0.08	0.00	0.06	0.06	0.002	0.002
3	5/30	0.17	0.00	0.21	0.00	0.19	0.24	0.006	0.008
4	5/31	0.42	0.71	0.38	0.00	0.44	0.68	0.015	0.023
5	6/01	0.50	0.71	0.10	0.00	0.46	1.14	0.016	0.039
6	6/02	0.17	0.42	0.00	0.00	0.19	1.33	0.007	0.046
7	6/03	0.88	0.54	0.00	0.00	0.47	1.80	0.016	0.062
8	6/04	0.92	1.54	0.42	0.00	0.96	2.76	0.033	0.095
9	6/05	2.21	3.59	0.33	0.00	2.16	4.92	0.074	0.168
10	6/06	0.21	0.54	0.00	0.00	0.33	5.25	0.011	0.180
11	6/07	1.63	2.33	0.21	0.00	1.39	6.64	0.048	0.227
12	6/08	3.46	1.71	0.17	0.00	1.92	8.56	0.066	0.293
13	6/09	0.58	0.38	0.00	0.00	0.43	8.99	0.015	0.308
14	6/10	3.38	2.08	0.00	0.00	1.82	10.81	0.062	0.370
15	6/11	2.13	2.04	0.06	0.00	1.53	12.34	0.052	0.423
16	6/12	0.54	0.29	0.00	0.00	0.37	12.71	0.013	0.435
17	6/13	1.21	1.46	0.00	0.00	0.89	13.60	0.030	0.466
18	6/14	0.88	1.25	0.08	0.00	0.74	14.33	0.025	0.491
19	6/15	2.17	1.46	0.00	0.00	1.32	15.65	0.045	0.536
20	6/16	1.13	0.38	0.00	0.00	0.67	16.32	0.023	0.559
21	6/17	0.59	1.63	0.00	0.00	0.74	17.06	0.025	0.585
22	6/18	2.83	1.21	0.11	0.00	1.50	18.56	0.051	0.636
23	6/19	0.83	0.63	1.00	0.00	0.76	19.32	0.026	0.662
24	6/20	1.75	1.96	0.29	0.00	1.33	20.65	0.046	0.708
25	6/21	1.04	1.46	0.08	0.00	0.86	21.52	0.030	0.737
26	6/22	0.58	0.96	0.13	0.00	0.56	22.08	0.019	0.756
27	6/23	0.17	0.29	0.00	0.00	0.15	22.23	0.005	0.762
28	6/24	0.29	0.25	0.00	0.00	0.18	22.41	0.006	0.768
29	6/25	0.75	1.42	0.08	0.00	0.75	23.16	0.026	0.793
30	6/26	0.58	1.00	0.29	0.00	0.63	23.79	0.021	0.815
31	6/27	0.46	0.67	0.33	0.00	0.49	24.27	0.017	0.832
32	6/28	0.54	0.46	0.17	0.00	0.39	24.66	0.013	0.845
33	6/29	0.92	1.42	0.33	0.00	0.89	25.55	0.030	0.875
34	6/30	0.08	0.46	0.21	0.00	0.25	25.80	0.009	0.884
35	7/01	0.46	0.33	0.42	0.00	0.40	26.20	0.014	0.898
36	7/02	0.29	0.67	0.42	0.00	0.46	26.66	0.016	0.913
37	7/03	0.04	0.13	0.08	0.00	0.08	26.75	0.003	0.916
38	7/04	0.21	0.29	0.17	0.00	0.22	26.97	0.008	0.924
39	7/05	0.42	2.17	0.38	0.00	0.99	27.95	0.034	0.958
40	7/06	0.58	1.38	0.21	0.00	0.72	28.68	0.025	0.982
41	7/07	0.08	0.13	0.04	0.00	0.08	28.76	0.003	0.985
42	7/08	0.13	0.08	0.21	0.00	0.14	28.90	0.005	0.990
43	7/09	0.17	0.08	0.29	0.00	0.18	29.08	0.006	0.996
44	7/10	0.00	0.00	0.00	0.00	0.00	29.08	0.000	0.996
45	7/11	0.00	0.13	0.00	0.00	0.04	29.12	0.001	0.998
46	7/12	0.00	0.08	0.00	0.00	0.03	29.15	0.001	0.999
47	7/13	0.04	0.00	0.04	0.00	0.03	29.18	0.001	1.000
48	7/14	0.00	0.00	0.00	0.00	0.00	29.18	0.000	1.000
49	7/15	0.04	0.00	0.00	0.00	0.01	29.19	0.000	1.000
		36.42	40.68	7.31	0.00	29.19			

MEAN DAY NO. = 20.1 VARIANCE = 101.9

Appendix Table C-3. 1981 Middle Mouth daily chinook salmon catches with daily and cumulative proportion, mean day, and variance.

Day No.	Date	Site No.1	Site No.2	Site No.3	Site No.4	Total All Sites	Cum. Total	Daily Prop.	Cum. Prop.
1	5/29	0	0	0	0	0	0	0.000	0.000
2	5/30	2	0	0	0	2	2	0.001	0.001
3	5/31	24	4	11	0	39	41	0.019	0.020
4	6/01	23	3	6	0	32	73	0.016	0.036
5	6/02	16	3	7	0	26	99	0.013	0.049
6	6/03	45	6	21	0	72	171	0.035	0.084
7	6/04	39	10	26	0	75	246	0.037	0.121
8	6/05	72	14	31	0	117	363	0.057	0.178
9	6/06	2	6	4	0	12	375	0.006	0.184
10	6/07	73	7	33	0	113	488	0.055	0.240
11	6/08	91	25	42	0	158	646	0.078	0.317
12	6/09	9	6	2	0	17	663	0.008	0.325
13	6/10	102	6	45	0	153	816	0.075	0.401
14	6/11	58	5	21	0	84	900	0.041	0.442
15	6/12	5	8	2	0	15	915	0.007	0.449
16	6/13	52	0	15	0	67	982	0.033	0.482
17	6/14	33	2	16	0	51	1033	0.025	0.507
18	6/15	40	2	12	0	54	1087	0.027	0.534
19	6/16	34	3	2	0	39	1126	0.019	0.553
20	6/17	30	0	15	0	45	1171	0.022	0.575
21	6/18	60	6	16	0	82	1253	0.040	0.615
22	6/19	16	14	1	0	31	1284	0.015	0.630
23	6/20	46	1	21	0	68	1352	0.033	0.664
24	6/21	62	2	28	9	101	1453	0.050	0.713
25	6/22	29	4	30	31	94	1547	0.046	0.759
26	6/23	14	2	6	16	38	1585	0.019	0.778
27	6/24	38	13	17	7	75	1660	0.037	0.815
28	6/25	18	9	26	14	67	1727	0.033	0.848
29	6/26	13	6	14	6	39	1766	0.019	0.867
30	6/27	16	8	18	6	48	1814	0.024	0.891
31	6/28	9	6	9	2	26	1840	0.013	0.903
32	6/29	19	11	10	16	56	1896	0.027	0.931
33	6/30	2	5	10	7	24	1920	0.012	0.943
34	7/01	10	2	4	5	21	1941	0.010	0.953
35	7/02	7	5	3	4	19	1960	0.009	0.962
36	7/03	1	4	1	2	8	1968	0.004	0.966
37	7/04	1	4	5	0	10	1978	0.005	0.971
38	7/05	3	3	2	2	10	1988	0.005	0.976
39	7/06	4	2	6	4	16	2004	0.008	0.984
40	7/07	1	0	0	2	3	2007	0.001	0.985
41	7/08	1	0	2	2	5	2012	0.002	0.988
42	7/09	6	5	1	3	15	2027	0.007	0.995
43	7/10	0	2	0	2	4	2031	0.002	0.997
44	7/11	3	0	0	0	3	2034	0.001	0.999
45	7/12	0	1	0	0	1	2035	0.000	0.999
46	7/13	0	1	0	0	1	2036	0.000	1.000
47	7/14	0	1	0	0	1	2037	0.000	1.000
		1129	227	541	140	2037			

MEAN DAY NO. = 18.4 VARIANCE = 88.2

Appendix Table C-4. 1981 Middle Mouth daily chinook salmon CPUE with daily and cumulative proportion, mean day, and variance.

Day No.	Date	Site No.1 CPUE	Site No.2 CPUE	Site No.3 CPUE	Site No.4 CPUE	Total CPUE All Sites	Cum. Total	Daily Prop.	Cum. Prop.
1	5/29	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000
2	5/30	0.08	0.00	0.00	0.00	0.03	0.03	0.001	0.001
3	5/31	1.00	0.17	0.46	0.00	0.54	0.57	0.020	0.021
4	6/01	0.96	0.13	0.25	0.00	0.44	1.01	0.017	0.038
5	6/02	0.67	0.13	0.29	0.00	0.36	1.38	0.014	0.052
6	6/03	1.88	0.25	0.88	0.00	1.00	2.38	0.038	0.089
7	6/04	1.63	0.42	1.08	0.00	1.04	3.42	0.039	0.129
8	6/05	3.00	0.58	1.29	0.00	1.63	5.04	0.061	0.190
9	6/06	0.08	0.25	0.17	0.00	0.17	5.21	0.006	0.196
10	6/07	3.04	0.29	1.38	0.00	1.57	6.78	0.059	0.255
11	6/08	3.79	1.04	1.75	0.00	2.19	8.97	0.083	0.337
12	6/09	0.38	0.25	0.08	0.00	0.24	9.21	0.009	0.346
13	6/10	4.25	0.25	1.88	0.00	2.13	11.33	0.080	0.426
14	6/11	2.42	0.21	1.17	0.00	1.27	12.61	0.048	0.474
15	6/12	0.21	0.33	0.33	0.00	0.28	12.88	0.010	0.485
16	6/13	2.17	0.00	0.63	0.00	0.93	13.81	0.035	0.520
17	6/14	1.38	0.08	0.67	0.00	0.71	14.52	0.027	0.546
18	6/15	1.67	0.08	0.67	0.00	0.82	15.34	0.031	0.577
19	6/16	1.42	0.13	0.33	0.00	0.72	16.06	0.027	0.604
20	6/17	1.25	0.00	0.63	0.00	0.63	16.69	0.024	0.628
21	6/18	2.50	0.25	0.89	0.00	1.24	17.93	0.047	0.674
22	6/19	0.67	0.58	0.17	0.00	0.57	18.50	0.022	0.696
23	6/20	1.92	0.04	0.88	0.00	0.94	19.45	0.036	0.732
24	6/21	2.58	0.08	1.17	0.38	1.05	20.50	0.040	0.771
25	6/22	1.21	0.17	1.25	1.29	0.98	21.48	0.037	0.808
26	6/23	0.58	0.08	0.25	0.67	0.40	21.88	0.015	0.823
27	6/24	1.58	0.54	0.71	0.29	0.78	22.66	0.029	0.852
28	6/25	0.75	0.38	1.08	0.58	0.70	23.36	0.026	0.879
29	6/26	0.54	0.25	0.58	0.25	0.41	23.76	0.015	0.894
30	6/27	0.67	0.33	0.75	0.25	0.50	24.26	0.019	0.913
31	6/28	0.38	0.25	0.38	0.08	0.27	24.53	0.010	0.923
32	6/29	0.79	0.46	0.42	0.67	0.58	25.12	0.022	0.945
33	6/30	0.08	0.21	0.42	0.29	0.25	25.37	0.009	0.954
34	7/01	0.42	0.08	0.17	0.21	0.22	25.58	0.008	0.962
35	7/02	0.29	0.21	0.13	0.17	0.20	25.78	0.007	0.970
36	7/03	0.04	0.17	0.04	0.08	0.08	25.87	0.003	0.973
37	7/04	0.04	0.17	0.21	0.00	0.10	25.97	0.004	0.977
38	7/05	0.13	0.13	0.08	0.08	0.10	26.07	0.004	0.981
39	7/06	0.17	0.08	0.25	0.17	0.17	26.24	0.006	0.987
40	7/07	0.04	0.00	0.00	0.08	0.03	26.27	0.001	0.988
41	7/08	0.04	0.00	0.08	0.08	0.05	26.32	0.002	0.990
42	7/09	0.25	0.21	0.04	0.13	0.16	26.48	0.006	0.996
43	7/10	0.00	0.08	0.00	0.08	0.04	26.52	0.002	0.998
44	7/11	0.13	0.00	0.00	0.00	0.03	26.55	0.001	0.999
45	7/12	0.00	0.04	0.00	0.00	0.01	26.56	0.000	0.999
46	7/13	0.00	0.04	0.00	0.00	0.01	26.57	0.000	1.000
47	7/14	0.00	0.04	0.00	0.00	0.01	26.58	0.000	1.00
		47.04	9.46	23.85	5.83	26.58			

MEAN DAY NO. = 17.4 VARIANCE = 80.4

Appendix Table C-5. 1981 Big Eddy daily summer chum salmon catches with daily and cumulative proportion, mean day, and variance.

Day No.	Date	Site No.1	Site No.2	Site No.3	Site No.4	Total All Sites	Cum. Total	Daily Prop.	Cum. Prop.
1	5/28	0	0	2	0	2	2	0.000	0.000
2	5/29	0	0	3	0	3	5	0.001	0.001
3	5/30	0	0	0	0	0	5	0.000	0.001
4	5/31	1	6	3	0	10	15	0.002	0.003
5	6/01	1	4	18	0	23	38	0.005	0.008
6	6/02	0	0	9	0	9	47	0.002	0.010
7	6/03	0	0	2	0	2	49	0.000	0.010
8	6/04	0	2	7	0	9	58	0.002	0.012
9	6/05	0	4	73	0	77	135	0.016	0.029
10	6/06	0	0	1	0	1	136	0.000	0.029
11	6/07	1	8	4	0	13	149	0.003	0.032
12	6/08	0	8	4	0	12	161	0.003	0.034
13	6/09	0	1	3	0	4	165	0.001	0.035
14	6/10	2	20	4	0	26	191	0.006	0.041
15	6/11	2	44	8	0	54	245	0.012	0.052
16	6/12	0	40	1	0	41	286	0.009	0.061
17	6/13	8	77	13	0	98	384	0.021	0.082
18	6/14	3	2	9	0	14	398	0.003	0.085
19	6/15	4	18	8	0	30	428	0.006	0.091
20	6/16	0	1	1	0	2	430	0.000	0.092
21	6/17	0	42	2	0	44	474	0.009	0.101
22	6/18	9	46	3	0	58	532	0.012	0.113
23	6/19	4	17	15	0	36	568	0.008	0.121
24	6/20	9	1	25	0	35	603	0.007	0.129
25	6/21	3	2	11	0	16	619	0.003	0.132
26	6/22	0	2	7	0	9	628	0.002	0.134
27	6/23	0	0	1	0	1	629	0.000	0.134
28	6/24	0	4	1	0	5	634	0.001	0.135
29	6/25	3	3	19	0	25	659	0.005	0.141
30	6/26	1	0	36	0	37	696	0.008	0.148
31	6/27	2	5	47	0	54	750	0.012	0.160
32	6/28	0	3	21	0	24	774	0.005	0.165
33	6/29	5	5	252	0	262	1036	0.056	0.221
34	6/30	1	12	243	0	256	1292	0.055	0.276
35	7/01	4	31	367	0	402	1694	0.086	0.361
36	7/02	3	2	424	0	429	2123	0.092	0.453
37	7/03	0	4	168	0	172	2295	0.037	0.490
38	7/04	2	4	102	0	108	2403	0.023	0.513
39	7/05	12	69	700	0	781	3184	0.167	0.679
40	7/06	28	51	586	0	665	3849	0.142	0.821
41	7/07	1	3	145	0	149	3998	0.032	0.853
42	7/08	3	6	231	0	240	4238	0.051	0.904
43	7/09	4	7	278	0	289	4527	0.062	0.966
44	7/10	2	0	13	0	15	4542	0.003	0.969
45	7/11	2	3	27	0	32	4574	0.007	0.976
46	7/12	0	4	49	0	53	4627	0.011	0.987
47	7/13	1	4	28	0	33	4660	0.007	0.994
48	7/14	1	3	12	0	16	4676	0.003	0.997
49	7/15	1	7	4	0	12	4688	0.003	1.000
		123	575	3990	0	4688			

MEAN DAY NO. = 35.2 VARIANCE = 71.2

Appendix Table C-6. 1981 Big Eddy daily summer chum salmon CPUE with daily and cumulative proportion, mean day, and variance.

Day No.	Date	Site No.1 CPUE	Site No.2 CPUE	Site No.3 CPUE	Site No.4 CPUE	Total CPUE All Sites	Cum. Total	Daily Prop.	Cum. Prop.
1	5/28	0.00	0.00	0.40	0.00	0.40	0.40	0.006	0.006
2	5/29	0.00	0.00	0.13	0.00	0.08	0.48	0.001	0.007
3	5/30	0.00	0.00	0.00	0.00	0.00	0.48	0.000	0.007
4	5/31	0.04	0.86	0.13	0.00	0.18	0.67	0.003	0.010
5	6/01	0.04	0.17	0.90	0.00	0.34	1.00	0.005	0.015
6	6/02	0.00	0.00	0.38	0.00	0.13	1.13	0.002	0.017
7	6/03	0.00	0.00	0.08	0.00	0.03	1.16	0.000	0.017
8	6/04	0.00	0.08	0.29	0.00	0.13	1.28	0.002	0.019
9	6/05	0.00	0.18	4.06	0.00	1.20	2.48	0.018	0.037
10	6/06	0.00	0.00	0.17	0.00	0.02	2.50	0.000	0.038
11	6/07	0.04	0.33	0.17	0.00	0.18	2.68	0.003	0.040
12	6/08	0.00	0.38	0.22	0.00	0.18	2.87	0.003	0.043
13	6/09	0.00	0.04	0.50	0.00	0.07	2.94	0.001	0.044
14	6/10	0.08	0.83	0.17	0.00	0.36	3.30	0.005	0.050
15	6/11	0.08	1.83	0.44	0.00	0.82	4.12	0.012	0.062
16	6/12	0.00	1.67	0.17	0.00	0.76	4.88	0.011	0.074
17	6/13	0.33	3.21	0.54	0.00	1.36	6.24	0.021	0.094
18	6/14	0.13	0.08	0.38	0.00	0.19	6.43	0.003	0.097
19	6/15	0.17	0.75	0.44	0.00	0.45	6.89	0.007	0.104
20	6/16	0.00	0.04	0.17	0.00	0.04	6.92	0.001	0.104
21	6/17	0.00	1.75	0.08	0.00	0.63	7.55	0.009	0.114
22	6/18	0.38	1.92	0.17	0.00	0.88	8.43	0.013	0.127
23	6/19	0.17	0.71	2.50	0.00	0.67	9.10	0.010	0.137
24	6/20	0.38	0.04	1.04	0.00	0.49	9.59	0.007	0.145
25	6/21	0.13	0.08	0.46	0.00	0.22	9.81	0.003	0.148
26	6/22	0.00	0.08	0.30	0.00	0.13	9.93	0.002	0.150
27	6/23	0.00	0.00	0.04	0.00	0.01	9.95	0.000	0.150
28	6/24	0.00	0.17	0.04	0.00	0.07	10.02	0.001	0.151
29	6/25	0.13	0.13	0.79	0.00	0.35	10.36	0.005	0.156
30	6/26	0.04	0.00	1.50	0.00	0.51	10.88	0.008	0.164
31	6/27	0.08	0.21	1.96	0.00	0.75	11.63	0.011	0.175
32	6/28	0.00	0.13	0.88	0.00	0.33	11.96	0.005	0.180
33	6/29	0.21	0.21	10.50	0.00	3.64	15.60	0.055	0.235
34	6/30	0.04	0.50	10.13	0.00	3.56	19.16	0.054	0.289
35	7/01	0.17	1.29	15.29	0.00	5.58	24.74	0.084	0.373
36	7/02	0.13	0.08	17.67	0.00	5.96	30.70	0.090	0.463
37	7/03	0.00	0.17	7.00	0.00	2.39	33.09	0.036	0.499
38	7/04	0.08	0.17	4.25	0.00	1.50	34.59	0.023	0.521
39	7/05	0.50	2.88	29.17	0.00	10.85	45.43	0.164	0.685
40	7/06	1.17	2.13	24.42	0.00	9.24	54.67	0.139	0.824
41	7/07	0.04	0.13	6.04	0.00	2.07	56.74	0.031	0.856
42	7/08	0.13	0.25	9.63	0.00	3.33	60.07	0.050	0.906
43	7/09	0.17	0.29	11.58	0.00	4.01	64.09	0.061	0.966
44	7/10	0.08	0.00	0.54	0.00	0.21	64.30	0.003	0.969
45	7/11	0.08	0.13	1.13	0.00	0.44	64.74	0.007	0.976
46	7/12	0.00	0.17	2.04	0.00	0.74	65.48	0.011	0.987
47	7/13	0.04	0.17	1.17	0.00	0.46	65.93	0.007	0.994
48	7/14	0.04	0.13	0.50	0.00	0.22	66.16	0.003	0.997
49	7/15	0.04	0.29	0.17	0.00	0.17	66.32	0.003	1.000
		5.12	24.58	170.69	0.00	66.32			

MEAN DAY NO. = 34.8 VARIANCE = 81.8

Appendix Table C-7. 1981 Middle Mouth daily summer chum salmon catches with daily and cumulative proportion, mean day, and variance.

Day No.	Date	Site No.1	Site No.2	Site No.3	Site No.4	Total All Sites	Cum. Total	Daily Prop.	Cum. Prop.
1	5/29	0	0	0	0	0	0	0.000	0.000
2	5/30	0	0	0	0	0	0	0.000	0.000
3	5/31	0	1	2	0	3	3	0.002	0.002
4	6/01	0	0	1	0	1	4	0.001	0.002
5	6/02	0	0	0	0	0	4	0.000	0.002
6	6/03	0	0	0	0	0	4	0.000	0.002
7	6/04	0	0	15	0	15	19	0.009	0.011
8	6/05	0	0	45	0	45	64	0.026	0.037
9	6/06	0	0	1	0	1	65	0.001	0.038
10	6/07	0	0	4	0	4	69	0.002	0.040
11	6/08	1	0	40	0	41	110	0.024	0.064
12	6/09	0	0	3	0	3	113	0.002	0.066
13	6/10	0	0	82	0	82	195	0.048	0.114
14	6/11	2	2	17	0	21	216	0.012	0.126
15	6/12	0	3	0	0	3	219	0.002	0.127
16	6/13	3	0	53	0	56	275	0.033	0.160
17	6/14	0	0	18	0	18	293	0.010	0.171
18	6/15	5	0	57	0	62	355	0.036	0.207
19	6/16	10	1	33	0	44	399	0.026	0.232
20	6/17	2	0	30	0	32	431	0.019	0.251
21	6/18	2	1	53	0	56	487	0.033	0.283
22	6/19	3	2	2	0	7	494	0.004	0.288
23	6/20	16	0	181	0	197	691	0.115	0.402
24	6/21	26	0	236	7	269	960	0.157	0.559
25	6/22	3	1	67	3	74	1034	0.043	0.602
26	6/23	1	1	23	1	26	1060	0.015	0.617
27	6/24	2	3	24	2	31	1091	0.018	0.635
28	6/25	3	6	24	3	36	1127	0.021	0.656
29	6/26	1	12	20	5	38	1165	0.022	0.678
30	6/27	4	5	90	6	105	1270	0.061	0.739
31	6/28	0	6	27	4	37	1307	0.022	0.761
32	6/29	2	0	24	2	28	1335	0.016	0.777
33	6/30	3	2	17	3	25	1360	0.015	0.792
34	7/01	2	0	23	3	28	1388	0.016	0.808
35	7/02	0	1	44	1	46	1434	0.027	0.835
36	7/03	0	3	20	0	23	1457	0.013	0.848
37	7/04	0	2	14	0	16	1473	0.009	0.857
38	7/05	1	4	13	0	18	1491	0.010	0.868
39	7/06	1	2	30	2	35	1526	0.020	0.888
40	7/07	0	0	14	0	14	1540	0.008	0.896
41	7/08	0	1	9	0	10	1550	0.006	0.902
42	7/09	2	2	65	2	71	1621	0.041	0.944
43	7/10	2	5	21	1	29	1650	0.017	0.960
44	7/11	1	0	4	3	8	1658	0.005	0.965
45	7/12	0	3	16	0	19	1677	0.011	0.976
46	7/13	0	2	15	0	17	1694	0.010	0.986
47	7/14	0	1	23	0	24	1718	0.014	1.000
		98	72	1500	48	1718			

MEAN DAY NO. = 25.8 VARIANCE = 88.0

Appendix Table C-8. 1981 Middle Mouth daily summer chum salmon CPUE with daily and cumulative proportion, mean day, and variance.

Day No.	Date	Site No.1 CPUE	Site No.2 CPUE	Site No.3 CPUE	Site No.4 CPUE	Total CPUE All Sites	Cum. Total	Daily Prop.	Cum. Prop.
1	5/29	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000
2	5/30	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000
3	5/31	0.00	0.04	0.08	0.00	0.04	0.04	0.002	0.002
4	6/01	0.00	0.00	0.04	0.00	0.01	0.06	0.001	0.003
5	6/02	0.00	0.00	0.00	0.00	0.00	0.06	0.000	0.003
6	6/03	0.00	0.00	0.00	0.00	0.00	0.06	0.000	0.003
7	6/04	0.00	0.00	0.63	0.00	0.21	0.26	0.010	0.013
8	6/05	0.00	0.00	1.88	0.00	0.63	0.89	0.030	0.043
9	6/06	0.00	0.00	0.04	0.00	0.01	0.90	0.001	0.044
10	6/07	0.00	0.00	0.17	0.00	0.06	0.96	0.003	0.046
11	6/08	0.04	0.00	1.67	0.00	0.57	1.53	0.027	0.074
12	6/09	0.00	0.00	0.13	0.00	0.04	1.57	0.002	0.076
13	6/10	0.00	0.00	3.42	0.00	1.14	2.71	0.055	0.131
14	6/11	0.08	0.08	0.94	0.00	0.32	3.03	0.015	0.146
15	6/12	0.00	0.13	0.00	0.00	0.06	3.08	0.003	0.149
16	6/13	0.13	0.00	2.21	0.00	0.78	3.86	0.038	0.186
17	6/14	0.00	0.00	0.75	0.00	0.25	4.11	0.012	0.198
18	6/15	0.21	0.00	3.17	0.00	0.94	5.05	0.045	0.244
19	6/16	0.42	0.04	5.50	0.00	0.81	5.86	0.039	0.283
20	6/17	0.08	0.00	1.25	0.00	0.44	6.31	0.021	0.304
21	6/18	0.08	0.04	2.94	0.00	0.85	7.16	0.041	0.345
22	6/19	0.13	0.08	0.33	0.00	0.13	7.29	0.006	0.352
23	6/20	0.67	0.00	7.54	0.00	2.74	10.02	0.132	0.484
24	6/21	1.08	0.00	9.83	0.29	2.80	12.82	0.135	0.619
25	6/22	0.13	0.04	2.79	0.13	0.77	13.60	0.037	0.656
26	6/23	0.04	0.04	0.96	0.04	0.27	13.87	0.013	0.669
27	6/24	0.08	0.13	1.00	0.08	0.32	14.19	0.016	0.685
28	6/25	0.13	0.25	1.00	0.13	0.38	14.56	0.018	0.703
29	6/26	0.04	0.50	0.83	0.21	0.40	14.96	0.019	0.722
30	6/27	0.17	0.21	3.75	0.25	1.09	16.05	0.053	0.775
31	6/28	0.00	0.25	1.13	0.17	0.39	16.44	0.019	0.793
32	6/29	0.08	0.00	1.00	0.08	0.29	16.73	0.014	0.807
33	6/30	0.13	0.08	0.71	0.13	0.26	16.99	0.013	0.820
34	7/01	0.08	0.00	0.96	0.13	0.29	17.28	0.014	0.834
35	7/02	0.00	0.04	1.83	0.04	0.48	17.76	0.023	0.857
36	7/03	0.00	0.13	0.83	0.00	0.24	18.00	0.012	0.869
37	7/04	0.00	0.08	0.58	0.00	0.17	18.17	0.008	0.877
38	7/05	0.04	0.17	0.54	0.00	0.19	18.36	0.009	0.886
39	7/06	0.04	0.08	1.25	0.08	0.36	18.72	0.018	0.903
40	7/07	0.00	0.00	0.58	0.00	0.15	18.87	0.007	0.911
41	7/08	0.00	0.04	0.38	0.00	0.10	18.97	0.005	0.916
42	7/09	0.08	0.08	2.71	0.08	0.74	19.71	0.036	0.951
43	7/10	0.08	0.21	0.88	0.04	0.30	20.01	0.015	0.966
44	7/11	0.04	0.00	0.17	0.13	0.08	20.10	0.004	0.970
45	7/12	0.00	0.13	0.67	0.00	0.20	20.29	0.010	0.979
46	7/13	0.00	0.08	0.63	0.00	0.18	20.47	0.009	0.988
47	7/14	0.00	0.04	0.96	0.00	0.25	20.72	0.012	1.000
		4.08	3.00	68.64	2.00	20.72			

MEAN DAY NO. = 24.7 VARIANCE = 86.9

Appendix Table C-9. 1981 Big Eddy fall chum salmon catches with daily and cumulative proportion, mean day, and variance.

Day No.	Date	Site No.1	Site No.2	Site No.3	Site No.4	Total All Sites	Cum. Total	Daily Prop.	Cum. Prop.
1	7/16	2	3	0	0	5	5	0.002	0.002
2	7/17	18	8	0	0	26	31	0.009	0.011
3	7/18	33	55	0	0	88	119	0.032	0.043
4	7/19	28	88	0	0	116	235	0.042	0.085
5	7/20	11	49	0	0	60	295	0.022	0.107
6	7/21	0	10	0	0	10	305	0.004	0.110
7	7/22	4	6	0	0	10	315	0.004	0.114
8	7/23	4	2	0	0	6	321	0.002	0.116
9	7/24	2	2	0	0	4	325	0.001	0.118
10	7/25	1	10	0	0	11	336	0.004	0.122
11	7/26	154	122	0	0	276	612	0.100	0.221
12	7/27	88	166	0	0	254	866	0.092	0.313
13	7/28	29	81	0	0	110	976	0.040	0.353
14	7/29	69	134	0	0	203	1179	0.073	0.427
15	7/30	33	87	0	0	120	1299	0.043	0.470
16	7/31	2	30	0	0	32	1331	0.012	0.482
17	8/01	4	12	0	0	16	1347	0.006	0.488
18	8/02	41	46	0	0	87	1434	0.031	0.519
19	8/03	12	38	0	0	50	1484	0.018	0.537
20	8/04	18	14	0	0	32	1516	0.012	0.549
21	8/06	5	22	0	0	27	1543	0.010	0.558
22	8/07	2	12	0	0	14	1557	0.005	0.564
23	8/08	56	73	0	0	129	1686	0.047	0.610
24	8/09	8	92	0	0	100	1786	0.036	0.646
25	8/10	8	46	0	0	54	1840	0.020	0.666
26	8/11	4	17	0	0	21	1861	0.008	0.674
27	8/12	116	103	0	0	219	2080	0.079	0.753
28	8/13	100	112	0	0	212	2292	0.077	0.830
29	8/14	38	59	0	0	97	2389	0.035	0.865
30	8/15	9	44	0	0	53	2442	0.019	0.884
31	8/15	8	20	0	0	28	2470	0.010	0.894
32	8/16	22	63	0	0	85	2555	0.031	0.925
33	8/17	7	12	0	0	19	2574	0.007	0.932
34	8/18	1	9	0	0	10	2584	0.004	0.935
35	8/19	1	6	0	0	7	2591	0.003	0.938
36	8/20	6	12	0	0	18	2609	0.007	0.944
37	8/21	11	17	0	0	28	2637	0.010	0.954
38	8/22	9	18	0	0	27	2664	0.010	0.964
39	8/23	0	3	0	0	3	2667	0.001	0.965
40	8/24	30	18	0	0	48	2715	0.017	0.983
41	8/25	5	12	0	0	17	2732	0.006	0.989
42	8/26	3	14	0	0	17	2749	0.006	0.995
43	8/27	2	1	0	0	3	2752	0.001	0.996
44	8/28	0	3	0	0	3	2755	0.001	0.997
45	8/29	2	2	0	0	4	2759	0.001	0.999
46	8/30	0	1	0	0	1	2760	0.000	0.999
47	8/31	0	3	0	0	3	2763	0.001	1.000
		1006	1757	0	0	2763			

MEAN DAY NO. = 19.4 VARIANCE = 147.6

Appendix Table C-10. 1981 Big Eddy fall chum salmon CPUE with daily and cumulative proportion, mean day, and variance.

Day No.	Date	Site No.1 CPUE	Site No.2 CPUE	Site No.3 CPUE	Site No.4 CPUE	Total CPUE All Sites	Cum. Total	Daily Prop.	Cum. Prop.
1	7/16	0.08	0.13	0.00	0.00	0.10	0.10	0.002	0.002
2	7/17	0.75	0.33	0.00	0.00	0.54	0.65	0.009	0.011
3	7/18	1.38	2.29	0.00	0.00	1.83	2.48	0.032	0.043
4	7/19	1.17	3.67	0.00	0.00	2.42	4.90	0.042	0.085
5	7/20	0.46	2.04	0.00	0.00	1.25	6.15	0.022	0.107
6	7/21	0.00	0.42	0.00	0.00	0.21	6.35	0.004	0.110
7	7/22	0.17	0.25	0.00	0.00	0.21	6.56	0.004	0.114
8	7/23	0.17	0.08	0.00	0.00	0.13	6.69	0.002	0.116
9	7/24	0.08	0.08	0.00	0.00	0.08	6.77	0.001	0.118
10	7/25	0.04	0.42	0.00	0.00	0.23	7.00	0.004	0.122
11	7/26	6.42	5.08	0.00	0.00	5.75	12.75	0.100	0.221
12	7/27	3.67	6.92	0.00	0.00	5.29	18.04	0.092	0.313
13	7/28	1.21	3.38	0.00	0.00	2.29	20.33	0.040	0.353
14	7/29	2.88	5.58	0.00	0.00	4.23	24.56	0.073	0.427
15	7/30	1.38	3.63	0.00	0.00	2.50	27.06	0.043	0.470
16	7/31	0.08	1.25	0.00	0.00	0.67	27.73	0.012	0.482
17	8/01	0.17	0.50	0.00	0.00	0.33	28.06	0.006	0.488
18	8/02	1.71	1.92	0.00	0.00	1.81	29.88	0.031	0.519
19	8/03	0.50	1.58	0.00	0.00	1.04	30.92	0.018	0.537
20	8/04	0.75	0.58	0.00	0.00	0.67	31.58	0.012	0.549
21	8/05	0.33	0.83	0.00	0.00	0.58	32.17	0.010	0.559
22	8/06	0.21	0.92	0.00	0.00	0.56	32.73	0.010	0.569
23	8/07	0.08	0.50	0.00	0.00	0.29	33.02	0.005	0.574
24	8/08	2.33	3.04	0.00	0.00	2.69	35.71	0.047	0.620
25	8/09	0.33	3.83	0.00	0.00	2.08	37.79	0.036	0.657
26	8/10	0.33	1.92	0.00	0.00	1.13	38.92	0.020	0.676
27	8/11	0.17	0.71	0.00	0.00	0.44	39.35	0.008	0.684
28	8/12	4.83	4.29	0.00	0.00	4.56	43.92	0.079	0.763
29	8/13	4.17	4.67	0.00	0.00	4.42	48.33	0.077	0.840
30	8/14	1.58	2.46	0.00	0.00	2.02	50.35	0.035	0.875
31	8/15	0.38	1.83	0.00	0.00	1.10	51.46	0.019	0.894
32	8/16	0.92	2.63	0.00	0.00	1.77	53.23	0.031	0.925
33	8/17	0.29	0.50	0.00	0.00	0.40	53.62	0.007	0.932
34	8/18	0.04	0.38	0.00	0.00	0.21	53.83	0.004	0.935
35	8/19	0.04	0.25	0.00	0.00	0.15	53.98	0.003	0.938
36	8/20	0.25	0.50	0.00	0.00	0.38	54.35	0.007	0.944
37	8/21	0.46	0.71	0.00	0.00	0.58	54.94	0.010	0.954
38	8/22	0.38	0.75	0.00	0.00	0.56	55.50	0.010	0.964
39	8/23	0.00	0.13	0.00	0.00	0.06	55.56	0.001	0.965
40	8/24	1.25	0.75	0.00	0.00	1.00	56.56	0.017	0.983
41	8/25	0.21	0.50	0.00	0.00	0.35	56.92	0.006	0.989
42	8/26	0.13	0.58	0.00	0.00	0.35	57.27	0.006	0.995
43	8/27	0.08	0.04	0.00	0.00	0.06	57.33	0.001	0.996
44	8/28	0.00	0.13	0.00	0.00	0.06	57.40	0.001	0.997
45	8/29	0.08	0.08	0.00	0.00	0.08	57.48	0.001	0.999
46	8/30	0.00	0.04	0.00	0.00	0.02	57.50	0.000	0.999
47	8/31	0.00	0.13	0.00	0.00	0.06	57.56	0.001	1.000
		41.92	73.21	0.00	0.00	57.56			

MEAN DAY NO. = 18.6 VARIANCE = 151.3

Appendix Table C-11. 1981 Middle Mouth daily fall chum salmon catches with daily and cumulative proportion, mean day, and variance.

Day No.	Date	Site No.1	Site No.2	Site No.3	Site No.4	Total All Sites	Cum. Total	Daily Prop.	Cum. Prop.
1	7/15	27	13	6	0	46	46	0.023	0.023
2	7/16	12	21	3	0	36	82	0.018	0.041
3	7/17	34	16	12	0	62	144	0.031	0.072
4	7/18	58	31	15	0	104	248	0.052	0.123
5	7/19	32	43	15	0	90	338	0.045	0.168
6	7/20	13	24	19	0	56	394	0.028	0.196
7	7/21	5	0	4	0	9	403	0.004	0.201
8	7/22	1	10	4	0	15	418	0.007	0.208
9	7/23	4	13	2	0	19	437	0.009	0.218
10	7/24	7	7	5	0	19	456	0.009	0.227
11	7/25	2	4	0	0	6	462	0.003	0.230
12	7/26	23	13	5	0	41	503	0.020	0.250
13	7/27	137	21	11	0	169	672	0.084	0.334
14	7/28	51	40	46	0	137	809	0.068	0.403
15	7/29	99	57	21	0	177	986	0.088	0.491
16	7/30	43	49	28	0	120	1106	0.060	0.551
17	7/31	11	19	11	0	41	1147	0.020	0.571
18	8/01	7	3	3	0	13	1160	0.006	0.577
19	8/02	64	12	5	0	81	1241	0.040	0.618
20	8/03	35	26	17	0	78	1319	0.039	0.657
21	8/04	6	4	10	0	20	1339	0.010	0.667
22	8/05	9	4	2	0	15	1354	0.007	0.674
23	8/06	16	14	8	0	38	1392	0.019	0.693
24	8/07	7	12	20	0	39	1431	0.019	0.712
25	8/08	25	16	3	0	44	1475	0.022	0.734
26	8/09	9	22	6	0	37	1512	0.018	0.753
27	8/10	1	2	0	0	3	1515	0.001	0.754
28	8/11	0	0	0	0	0	1515	0.000	0.754
29	8/12	70	2	0	0	72	1587	0.036	0.790
30	8/13	37	42	7	0	86	1673	0.043	0.833
31	8/14	26	22	30	0	78	1751	0.039	0.872
32	8/15	4	25	6	0	35	1786	0.017	0.889
33	8/16	14	39	8	0	61	1847	0.030	0.919
34	8/17	6	17	1	0	24	1871	0.012	0.931
35	8/18	7	12	6	0	25	1896	0.012	0.944
36	8/19	2	13	0	0	15	1911	0.007	0.951
37	8/20	14	7	1	0	22	1933	0.011	0.962
38	8/21	11	17	6	0	34	1967	0.017	0.979
39	8/22	5	5	7	0	17	1984	0.008	0.988
40	8/23	1	5	1	0	7	1991	0.003	0.991
41	8/24	1	1	1	0	3	1994	0.001	0.993
42	8/25	4	1	1	0	6	2000	0.003	0.996
43	8/26	2	0	0	0	2	2002	0.001	0.997
44	8/27	0	1	0	0	1	2003	0.000	0.997
45	8/28	2	1	1	0	4	2007	0.002	0.999
46	8/29	1	0	0	0	1	2008	0.000	1.000
47	8/30	1	0	0	0	1	2009	0.000	1.000
		946	706	357	0	2009			

MEAN DAY NO. = 18.1 VARIANCE = 109.9

Appendix Table C-12. 1981 Middle Mouth daily fall chum salmon CPUE with daily and cumulative proportion, mean day, and variance.

Day No.	Date	Site No.1 CPUE	Site No.2 CPUE	Site No.3 CPUE	Site No.4 CPUE	Total CPUE All Sites	Cum. Total	Daily Prop.	Cum. Prop.
1	7/15	1.13	0.54	0.25	0.00	0.64	0.64	0.023	0.023
2	7/16	0.50	0.88	0.13	0.00	0.50	1.14	0.018	0.041
3	7/17	1.42	0.67	0.50	0.00	0.86	2.00	0.031	0.072
4	7/18	2.42	1.29	0.63	0.00	1.44	3.44	0.052	0.123
5	7/19	1.33	1.79	0.63	0.00	1.25	4.69	0.045	0.168
6	7/20	0.54	1.00	0.79	0.00	0.78	5.47	0.028	0.196
7	7/21	0.21	0.00	0.17	0.00	0.13	5.60	0.004	0.201
8	7/22	0.04	0.42	0.17	0.00	0.21	5.81	0.007	0.208
9	7/23	0.17	0.54	0.08	0.00	0.26	6.07	0.009	0.218
10	7/24	0.29	0.29	0.21	0.00	0.26	6.33	0.009	0.227
11	7/25	0.08	0.17	0.00	0.00	0.08	6.42	0.003	0.230
12	7/26	0.96	0.54	0.21	0.00	0.57	6.99	0.020	0.250
13	7/27	5.71	0.88	0.46	0.00	2.35	9.33	0.084	0.334
14	7/28	2.13	1.67	1.92	0.00	1.90	11.24	0.068	0.403
15	7/29	4.13	2.38	0.88	0.00	2.46	13.69	0.088	0.491
16	7/30	1.79	2.04	1.17	0.00	1.67	15.36	0.060	0.551
17	7/31	0.46	0.79	0.46	0.00	0.57	15.93	0.020	0.571
18	8/01	0.29	0.13	0.13	0.00	0.18	16.11	0.006	0.577
19	8/02	2.67	0.50	0.21	0.00	1.13	17.24	0.040	0.618
20	8/03	1.46	1.08	0.71	0.00	1.08	18.32	0.039	0.657
21	8/04	0.25	0.17	0.42	0.00	0.28	18.60	0.010	0.667
22	8/05	0.38	0.17	0.08	0.00	0.21	18.81	0.007	0.674
23	8/06	0.67	0.58	0.33	0.00	0.53	19.33	0.019	0.693
24	8/07	0.29	0.50	0.83	0.00	0.54	19.88	0.019	0.712
25	8/08	1.04	0.67	0.13	0.00	0.61	20.49	0.022	0.734
26	8/09	0.38	0.92	0.25	0.00	0.51	21.00	0.018	0.753
27	8/10	0.04	0.08	0.00	0.00	0.04	21.04	0.001	0.754
28	8/11	0.00	0.00	0.00	0.00	0.00	21.04	0.000	0.754
29	8/12	2.92	0.08	0.00	0.00	1.00	22.04	0.036	0.790
30	8/13	1.54	1.75	0.29	0.00	1.19	23.24	0.043	0.833
31	8/14	1.08	0.92	1.25	0.00	1.08	24.32	0.039	0.872
32	8/15	0.17	1.04	0.25	0.00	0.49	24.81	0.017	0.889
33	8/16	0.58	1.63	0.33	0.00	0.85	25.65	0.030	0.919
34	8/17	0.25	0.71	0.04	0.00	0.33	25.99	0.012	0.931
35	8/18	0.29	0.50	0.25	0.00	0.35	26.33	0.012	0.944
36	8/19	0.08	0.54	0.00	0.00	0.21	26.54	0.007	0.951
37	8/20	0.58	0.29	0.04	0.00	0.31	26.85	0.011	0.962
38	8/21	0.46	0.71	0.25	0.00	0.47	27.32	0.017	0.979
39	8/22	0.21	0.21	0.29	0.00	0.24	27.56	0.008	0.988
40	8/23	0.04	0.21	0.04	0.00	0.10	27.65	0.003	0.991
41	8/24	0.04	0.04	0.04	0.00	0.04	27.69	0.001	0.993
42	8/25	0.17	0.04	0.04	0.00	0.08	27.78	0.003	0.996
43	8/26	0.08	0.00	0.00	0.00	0.03	27.81	0.001	0.997
44	8/27	0.00	0.04	0.00	0.00	0.01	27.82	0.000	0.997
45	8/28	0.08	0.04	0.04	0.00	0.06	27.88	0.002	0.999
46	8/29	0.04	0.00	0.00	0.00	0.01	27.89	0.000	1.000
47	8/30	0.04	0.00	0.00	0.00	0.01	27.90	0.000	1.000
		39.42	29.42	14.88	0.00	27.90			

MEAN DAY NO. = 18.1 VARIANCE = 109.9

Appendix Table C-13. 1981 Big Eddy daily coho salmon catches with daily and cumulative proportion, mean day, and variance.

Day No.	Date	Site No.1	Site No.2	Site No.3	Site No.4	Total All Sites	Cum. Total	Daily Prop.	Cum. Prop.
1	7/16	0	0	0	0	0	0	0.000	0.000
2	7/17	0	0	0	0	0	0	0.000	0.000
3	7/18	0	0	0	0	0	0	0.000	0.000
4	7/19	0	0	0	0	0	0	0.000	0.000
5	7/20	0	0	0	0	0	0	0.000	0.000
6	7/21	0	0	0	0	0	0	0.000	0.000
7	7/22	0	0	0	0	0	0	0.000	0.000
8	7/23	0	0	0	0	0	0	0.000	0.000
9	7/24	0	0	0	0	0	0	0.000	0.000
10	7/25	0	0	0	0	0	0	0.000	0.000
11	7/26	0	0	0	0	0	0	0.000	0.000
12	7/27	0	0	0	0	0	0	0.000	0.000
13	7/28	0	0	0	0	0	0	0.000	0.000
14	7/29	0	0	0	0	0	0	0.000	0.000
15	7/30	1	0	0	0	1	1	0.001	0.001
16	7/31	0	1	0	0	1	2	0.001	0.003
17	8/01	0	0	0	0	0	2	0.000	0.003
18	8/02	1	3	0	0	4	6	0.006	0.009
19	8/03	4	8	0	0	12	18	0.017	0.026
20	8/04	1	1	0	0	2	20	0.003	0.028
21	8/06	1	3	0	0	4	24	0.006	0.034
22	8/07	0	2	0	0	2	26	0.003	0.037
23	8/08	4	12	0	0	16	42	0.023	0.060
24	8/09	6	23	0	0	29	71	0.041	0.101
25	8/10	3	10	0	0	13	84	0.019	0.120
26	8/11	1	10	0	0	11	95	0.016	0.135
27	8/12	18	10	0	0	28	123	0.040	0.175
28	8/13	23	18	0	0	41	164	0.058	0.234
29	8/14	17	18	0	0	35	199	0.050	0.283
30	8/15	10	18	0	0	28	227	0.040	0.323
31	8/15	0	1	0	0	1	228	0.001	0.325
32	8/16	58	20	0	0	78	306	0.111	0.436
33	8/17	7	21	0	0	28	334	0.040	0.476
34	8/18	8	24	0	0	32	366	0.046	0.521
35	8/19	15	17	0	0	32	398	0.046	0.567
36	8/20	32	34	0	0	66	464	0.094	0.661
37	8/21	13	19	0	0	32	496	0.046	0.707
38	8/22	21	19	0	0	40	536	0.057	0.764
39	8/23	19	10	0	0	29	565	0.041	0.805
40	8/24	22	18	0	0	40	605	0.057	0.862
41	8/25	9	15	0	0	24	629	0.034	0.896
42	8/26	2	5	0	0	7	636	0.010	0.906
43	8/27	1	13	0	0	14	650	0.020	0.926
44	8/28	2	1	0	0	3	653	0.004	0.930
45	8/29	20	12	0	0	32	685	0.046	0.976
46	8/30	5	4	0	0	9	694	0.013	0.989
47	8/31	2	6	0	0	8	702	0.011	1.000
		326	376	0	0	702			

MEAN DAY NO. = 33.7 VARIANCE = 39.3

Appendix Table C-14. 1981 Big Eddy daily coho salmon CPUE with daily and cumulative proportion, mean day, and variance.

Day No.	Date	Site No.1 CPUE	Site No.2 CPUE	Site No.3 CPUE	Site No.4 CPUE	Total CPUE All Sites	Cum. Total	Daily Prop.	Cum. Prop.
1	7/16	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000
2	7/17	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000
3	7/18	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000
4	7/19	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000
5	7/20	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000
6	7/21	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000
7	7/22	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000
8	7/23	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000
9	7/24	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000
10	7/25	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000
11	7/26	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000
12	7/27	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000
13	7/28	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000
14	7/29	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000
15	7/30	0.04	0.00	0.00	0.00	0.02	0.02	0.001	0.001
16	7/31	0.00	0.04	0.00	0.00	0.02	0.04	0.001	0.003
17	8/01	0.00	0.00	0.00	0.00	0.00	0.04	0.000	0.003
18	8/02	0.04	0.13	0.00	0.00	0.08	0.13	0.006	0.009
19	8/03	0.17	0.33	0.00	0.00	0.25	0.38	0.017	0.026
20	8/04	0.04	0.04	0.00	0.00	0.04	0.42	0.003	0.028
21	8/05	0.00	0.04	0.00	0.00	0.02	0.44	0.001	0.030
22	8/06	0.04	0.13	0.00	0.00	0.08	0.52	0.006	0.036
23	8/07	0.00	0.08	0.00	0.00	0.04	0.56	0.003	0.038
24	8/08	0.17	0.50	0.00	0.00	0.33	0.90	0.023	0.061
25	8/09	0.25	0.96	0.00	0.00	0.60	1.50	0.041	0.103
26	8/10	0.13	0.42	0.00	0.00	0.27	1.77	0.019	0.121
27	8/11	0.04	0.42	0.00	0.00	0.23	2.00	0.016	0.137
28	8/12	0.75	0.42	0.00	0.00	0.58	2.58	0.040	0.177
29	8/13	0.96	0.75	0.00	0.00	0.85	3.44	0.058	0.235
30	8/14	0.71	0.75	0.00	0.00	0.73	4.17	0.050	0.285
31	8/15	0.42	0.75	0.00	0.00	0.58	4.75	0.040	0.325
32	8/16	2.42	0.83	0.00	0.00	1.63	6.38	0.111	0.436
33	8/17	0.29	0.88	0.00	0.00	0.58	6.96	0.040	0.476
34	8/18	0.33	1.00	0.00	0.00	0.67	7.63	0.046	0.521
35	8/19	0.63	0.71	0.00	0.00	0.67	8.29	0.046	0.567
36	8/20	1.33	1.42	0.00	0.00	1.38	9.67	0.094	0.661
37	8/21	0.54	0.79	0.00	0.00	0.67	10.33	0.046	0.707
38	8/22	0.88	0.79	0.00	0.00	0.83	11.17	0.057	0.764
39	8/23	0.79	0.42	0.00	0.00	0.60	11.77	0.041	0.805
40	8/24	0.92	0.75	0.00	0.00	0.83	12.60	0.057	0.862
41	8/25	0.38	0.63	0.00	0.00	0.50	13.10	0.034	0.896
42	8/26	0.08	0.21	0.00	0.00	0.15	13.25	0.010	0.906
43	8/27	0.04	0.54	0.00	0.00	0.29	13.54	0.020	0.926
44	8/28	0.08	0.04	0.00	0.00	0.06	13.60	0.004	0.930
45	8/29	0.83	0.50	0.00	0.00	0.67	14.27	0.046	0.976
46	8/30	0.21	0.17	0.00	0.00	0.19	14.46	0.013	0.989
47	8/31	0.08	0.25	0.00	0.00	0.17	14.63	0.011	1.000
		13.58	15.67	0.00	0.00	14.63			

MEAN DAY NO. = 33.0 VARIANCE = 38.8

Appendix Table C-15. 1981 Middle Mouth daily coho salmon catches with daily and cumulative proportion, mean day, and variance.

Day No.	Date	Site No.1	Site No.2	Site No.3	Site No.4	Total All Sites	Cum. Total	Daily Prop.	Cum. Prop.
1	7/15	0	0	0	0	0	0	0.000	0.000
2	7/16	0	0	0	0	0	0	0.000	0.000
3	7/17	0	0	0	0	0	0	0.000	0.000
4	7/18	0	0	0	0	0	0	0.000	0.000
5	7/19	0	0	0	0	0	0	0.000	0.000
6	7/20	0	0	0	0	0	0	0.000	0.000
7	7/21	0	0	0	0	0	0	0.000	0.000
8	7/22	0	0	0	0	0	0	0.000	0.000
9	7/23	0	0	0	0	0	0	0.000	0.000
10	7/24	0	0	0	0	0	0	0.000	0.000
11	7/25	0	0	0	0	0	0	0.000	0.000
12	7/26	0	0	0	0	0	0	0.000	0.000
13	7/27	0	2	0	0	2	2	0.003	0.003
14	7/28	0	2	0	0	2	4	0.003	0.006
15	7/29	0	0	0	0	0	4	0.000	0.006
16	7/30	0	0	1	0	1	5	0.002	0.008
17	7/31	0	0	0	0	0	5	0.000	0.008
18	8/01	0	0	0	0	0	5	0.000	0.008
19	8/02	0	0	0	0	0	5	0.000	0.008
20	8/03	0	2	0	0	2	7	0.003	0.011
21	8/04	0	0	0	0	0	7	0.000	0.011
22	8/05	0	0	1	0	1	8	0.002	0.012
23	8/06	0	0	1	0	1	9	0.002	0.014
24	8/07	1	0	1	0	2	11	0.003	0.017
25	8/08	2	0	0	0	2	13	0.003	0.020
26	8/09	0	4	1	0	5	18	0.008	0.028
27	8/10	0	2	0	0	2	20	0.003	0.031
28	8/11	0	2	0	0	2	22	0.003	0.034
29	8/12	5	4	0	0	9	31	0.014	0.048
30	8/13	15	7	1	0	23	54	0.035	0.083
31	8/14	25	22	10	0	57	111	0.088	0.171
32	8/15	6	15	3	0	24	135	0.037	0.208
33	8/16	5	16	4	0	25	160	0.038	0.246
34	8/17	6	27	6	0	39	199	0.060	0.306
35	8/18	4	14	34	0	52	251	0.080	0.386
36	8/19	5	41	11	0	57	308	0.088	0.474
37	8/20	15	30	9	0	54	362	0.083	0.557
38	8/21	14	47	5	0	66	428	0.102	0.658
39	8/22	4	40	4	0	48	476	0.074	0.732
40	8/23	1	43	5	0	49	525	0.075	0.808
41	8/24	5	13	2	0	20	545	0.031	0.838
42	8/25	7	12	6	0	25	570	0.038	0.877
43	8/26	1	8	4	0	13	583	0.020	0.897
44	8/27	1	4	6	0	11	594	0.017	0.914
45	8/28	2	11	5	0	18	612	0.028	0.942
46	8/29	3	13	2	0	18	630	0.028	0.969
47	8/30	8	11	1	0	20	650	0.031	1.000
		135	392	123	0	650			

MEAN DAY NO. = 36.7 VARIANCE = 27.4

Appendix Table C-16. 1981 Middle Mouth daily coho salmon CPUE with daily and cumulative proportion, mean day, and variance.

Day No.	Date	Site No.1 CPUE	Site No.2 CPUE	Site No.3 CPUE	Site No.4 CPUE	Total CPUE All Sites	Cum. Total	Daily Prop.	Cum. Prop.
1	7/15	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000
2	7/16	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000
3	7/17	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000
4	7/18	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000
5	7/19	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000
6	7/20	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000
7	7/21	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000
8	7/22	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000
9	7/23	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000
10	7/24	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000
11	7/25	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000
12	7/26	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000
13	7/27	0.00	0.08	0.00	0.00	0.03	0.03	0.003	0.003
14	7/28	0.00	0.08	0.00	0.00	0.03	0.06	0.003	0.006
15	7/29	0.00	0.00	0.00	0.00	0.00	0.06	0.000	0.006
16	7/30	0.00	0.00	0.04	0.00	0.01	0.07	0.002	0.008
17	7/31	0.00	0.00	0.00	0.00	0.00	0.07	0.000	0.008
18	8/01	0.00	0.00	0.00	0.00	0.00	0.07	0.000	0.008
19	8/02	0.00	0.00	0.00	0.00	0.00	0.07	0.000	0.008
20	8/03	0.00	0.08	0.00	0.00	0.03	0.10	0.003	0.011
21	8/04	0.00	0.00	0.00	0.00	0.00	0.10	0.000	0.011
22	8/05	0.00	0.00	0.04	0.00	0.01	0.11	0.002	0.012
23	8/06	0.00	0.00	0.04	0.00	0.01	0.13	0.002	0.014
24	8/07	0.04	0.00	0.04	0.00	0.03	0.15	0.003	0.017
25	8/08	0.08	0.00	0.00	0.00	0.03	0.18	0.003	0.020
26	8/09	0.00	0.17	0.04	0.00	0.07	0.25	0.008	0.028
27	8/10	0.00	0.08	0.00	0.00	0.03	0.28	0.003	0.031
28	8/11	0.00	0.08	0.00	0.00	0.03	0.31	0.003	0.034
29	8/12	0.21	0.17	0.00	0.00	0.13	0.43	0.014	0.048
30	8/13	0.63	0.29	0.04	0.00	0.32	0.75	0.035	0.083
31	8/14	1.04	0.92	0.42	0.00	0.79	1.54	0.088	0.171
32	8/15	0.25	0.63	0.13	0.00	0.33	1.88	0.037	0.208
33	8/16	0.21	0.67	0.17	0.00	0.35	2.22	0.038	0.246
34	8/17	0.25	1.13	0.25	0.00	0.54	2.76	0.060	0.306
35	8/18	0.17	0.58	1.42	0.00	0.72	3.49	0.080	0.386
36	8/19	0.21	1.71	0.46	0.00	0.79	4.28	0.088	0.474
37	8/20	0.63	1.25	0.38	0.00	0.75	5.03	0.083	0.557
38	8/21	0.58	1.96	0.21	0.00	0.92	5.94	0.102	0.658
39	8/22	0.17	1.67	0.17	0.00	0.67	6.61	0.074	0.732
40	8/23	0.04	1.79	0.21	0.00	0.68	7.29	0.075	0.808
41	8/24	0.21	0.54	0.08	0.00	0.28	7.57	0.031	0.838
42	8/25	0.29	0.50	0.25	0.00	0.35	7.92	0.038	0.877
43	8/26	0.04	0.33	0.17	0.00	0.18	8.10	0.020	0.897
44	8/27	0.04	0.17	0.25	0.00	0.15	8.25	0.017	0.914
45	8/28	0.08	0.46	0.21	0.00	0.25	8.50	0.028	0.942
46	8/29	0.13	0.54	0.08	0.00	0.25	8.75	0.028	0.969
47	8/30	0.33	0.46	0.04	0.00	0.28	9.03	0.031	1.000
		5.62	16.33	5.13	0.00	9.03			

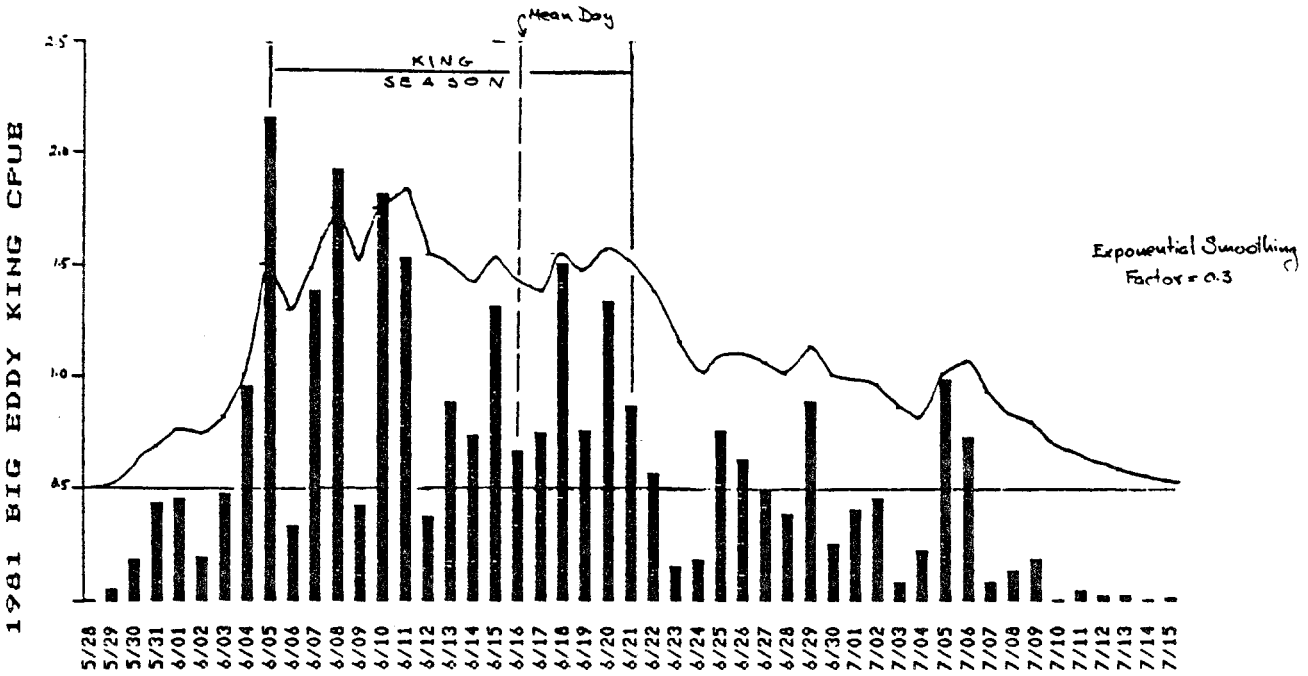
MEAN DAY NO. = 36.7 VARIANCE = 27.4

Appendix D. Test fishery daily CPUE bar graphs, 1981.

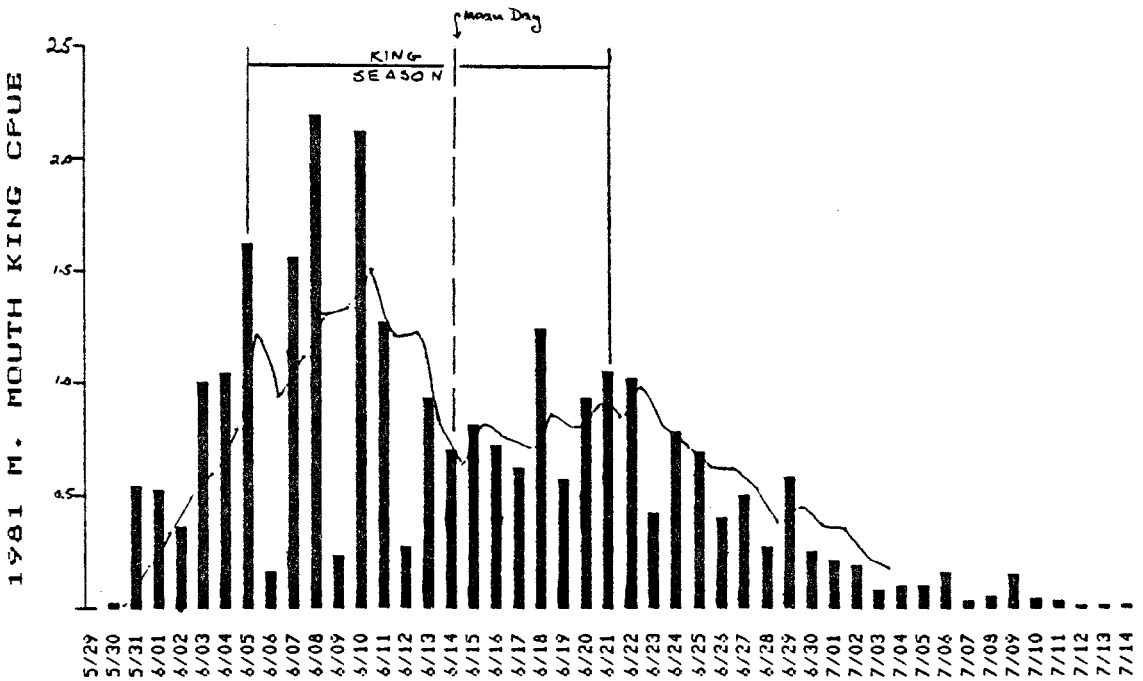
The bar graphs in Appendix D were produced from the test fishing data file by the graphics program "CPUE-BAR.BAS", using the Anadex printer, on the Vector Graphics microcomputer.

Graph		Page
D-1	1981 Big Eddy daily chinook salmon CPUE from sites #1, #2, and #3 combined.	63
D-2	1981 Middle Mouth daily chinook salmon CPUE from sites #1, #2, #3, and #4 combined.	63
D-3	1981 Big Eddy daily summer chum salmon CPUE from sites #1, #2, and #3 combined.	64
D-4	1981 Middle Mouth daily summer chum salmon CPUE from sites #1, #2, #3, and #4 combined.	64
D-5	1981 Big Eddy daily fall chum salmon CPUE from sites #1 and #2 combined.	65
D-6	1981 Middle Mouth daily fall chum salmon CPUE from sites #1, #2, and #3 combined.	65
D-7	1981 Big Eddy daily coho salmon CPUE from sites #1 and #2 combined.	66
D-8	1981 Middle Mouth daily coho salmon CPUE from sites #1, #2, and #3 combined.	66

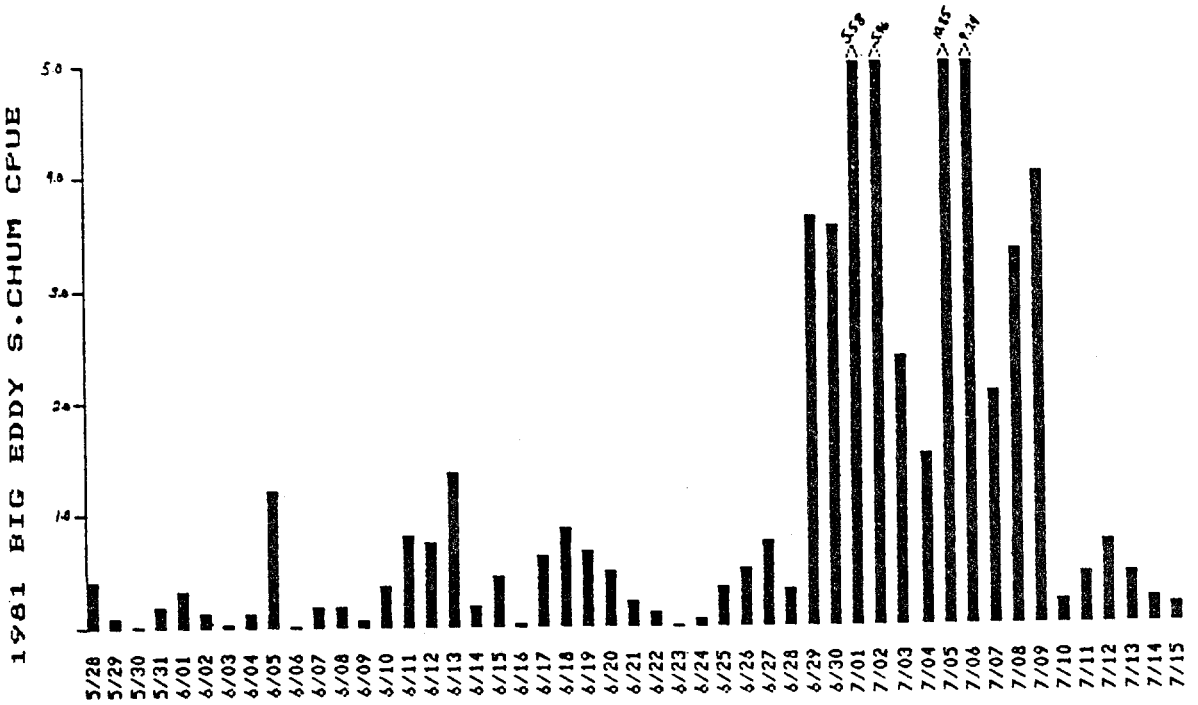
Graph D-1. 1981 Big Eddy daily chinook salmon CPUE from sites #1, #2, and #3 combined.



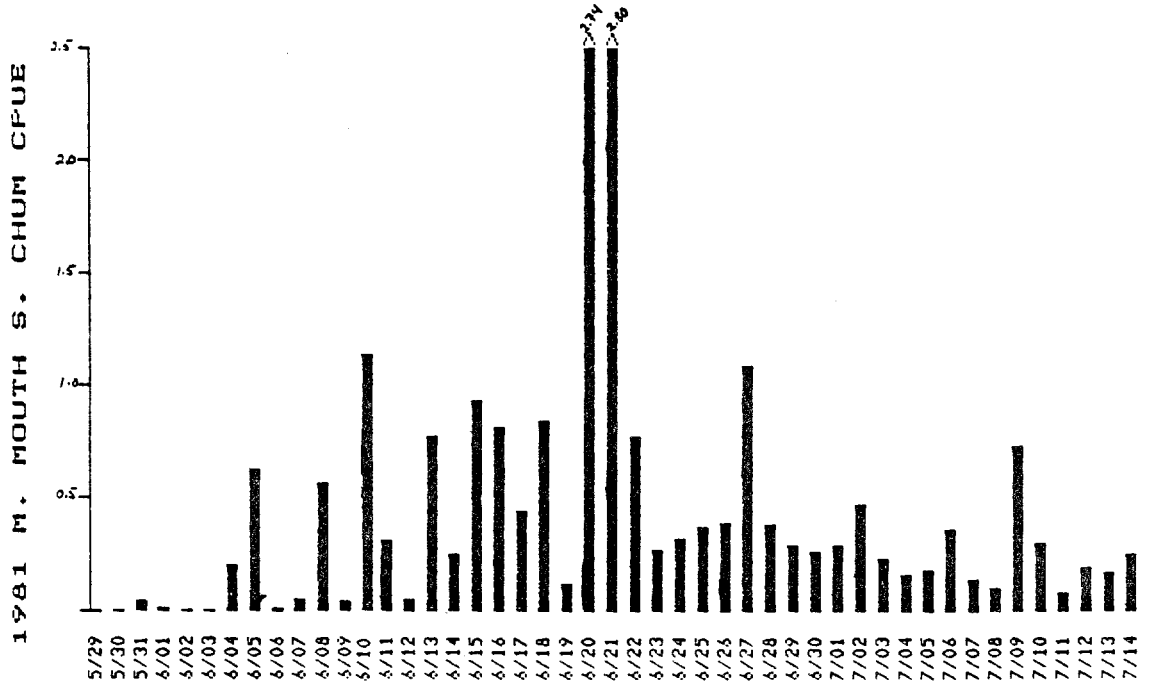
Graph D-2. 1981 Middle Mouth daily chinook salmon CPUE from sites #1, #2, #3, and #4 combined.



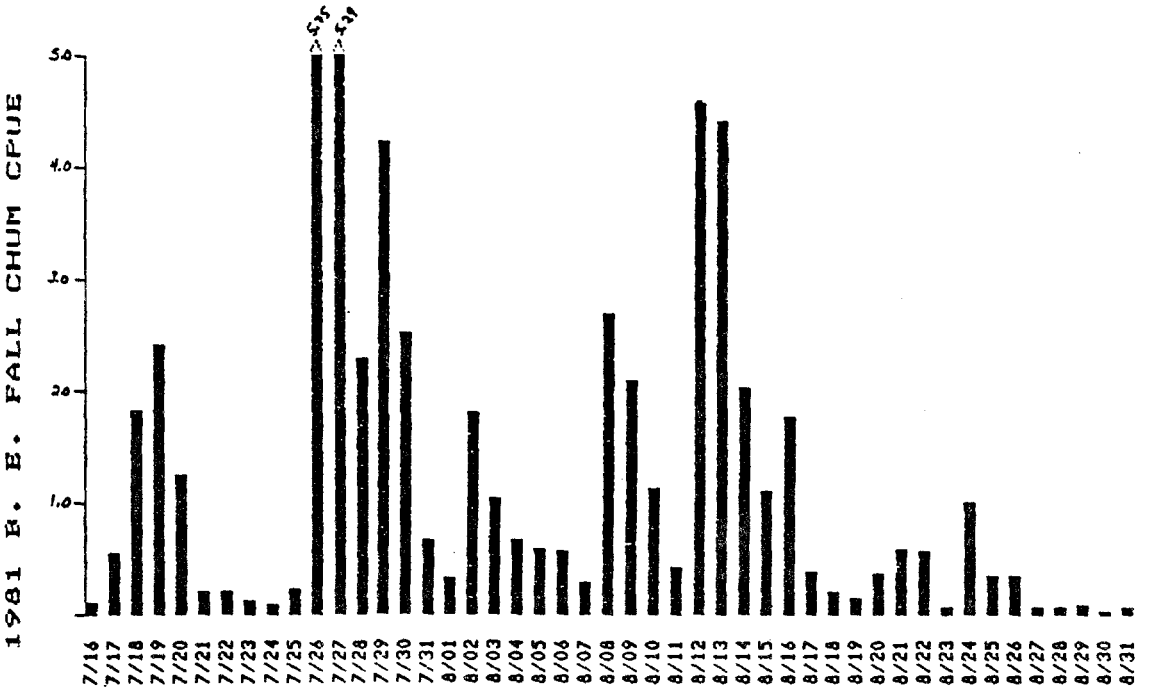
Graph D-3. 1981 Big Eddy daily summer chum salmon CPUE from sites #1, #2, and #3 combined.



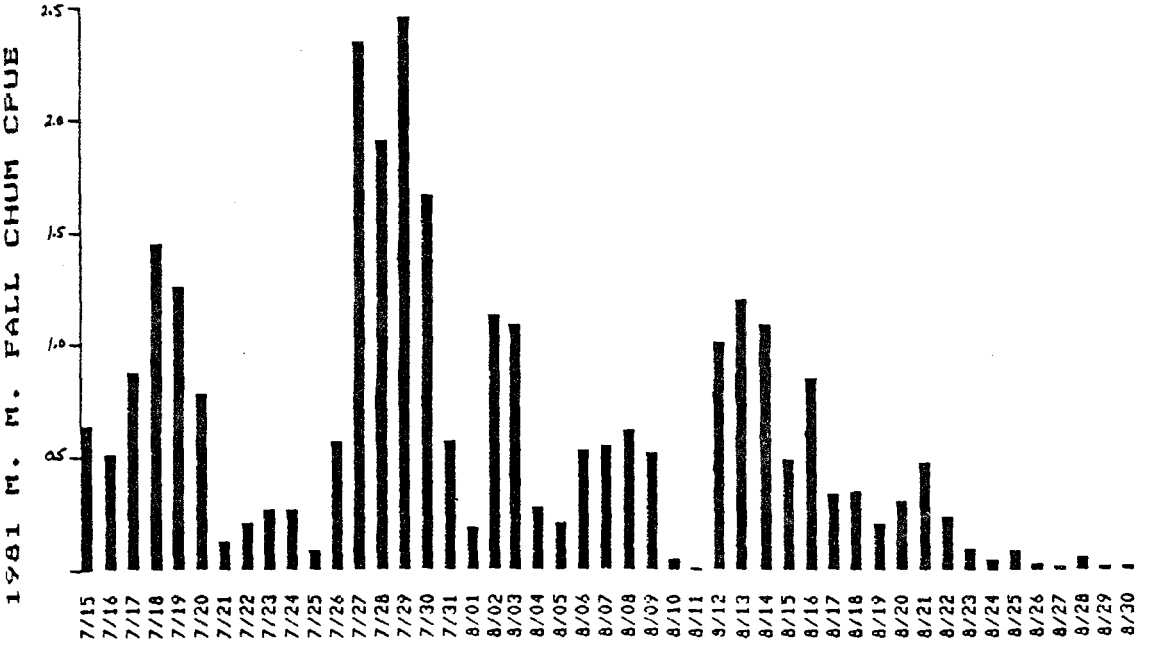
Graph D-4. 1981 Middle Mouth daily summer chum salmon CPUE from sites #1, #2, #3, and #4 combined.



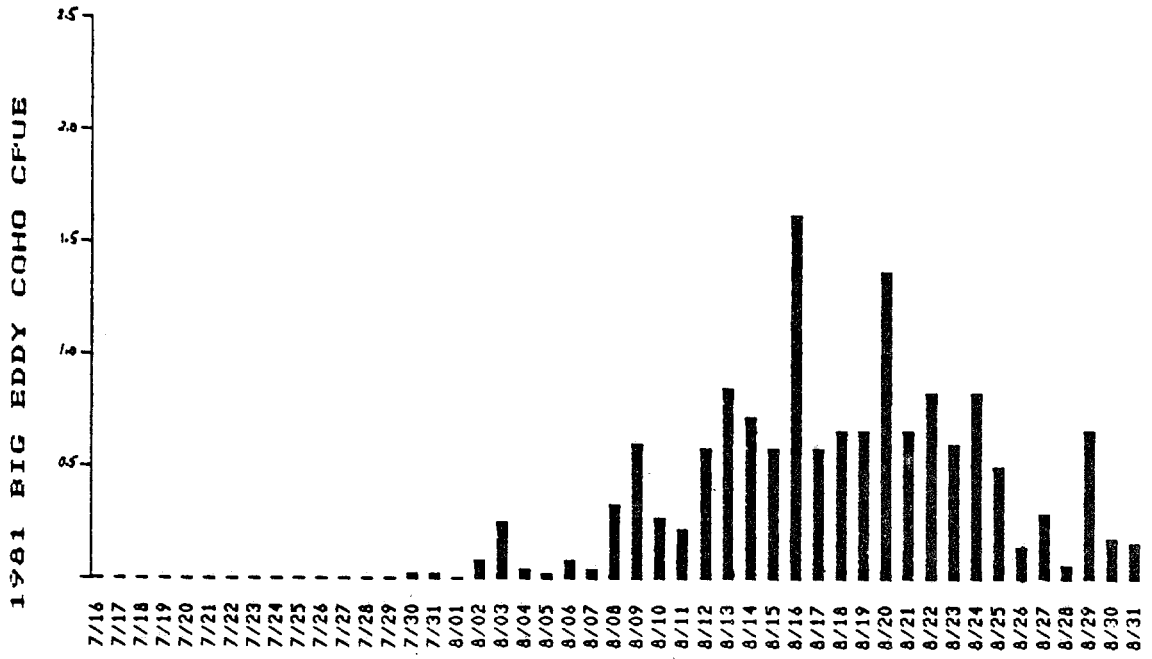
Graph D-5. 1981 Big Eddy daily fall chum salmon CPUE from sites #1 and #2 combined.



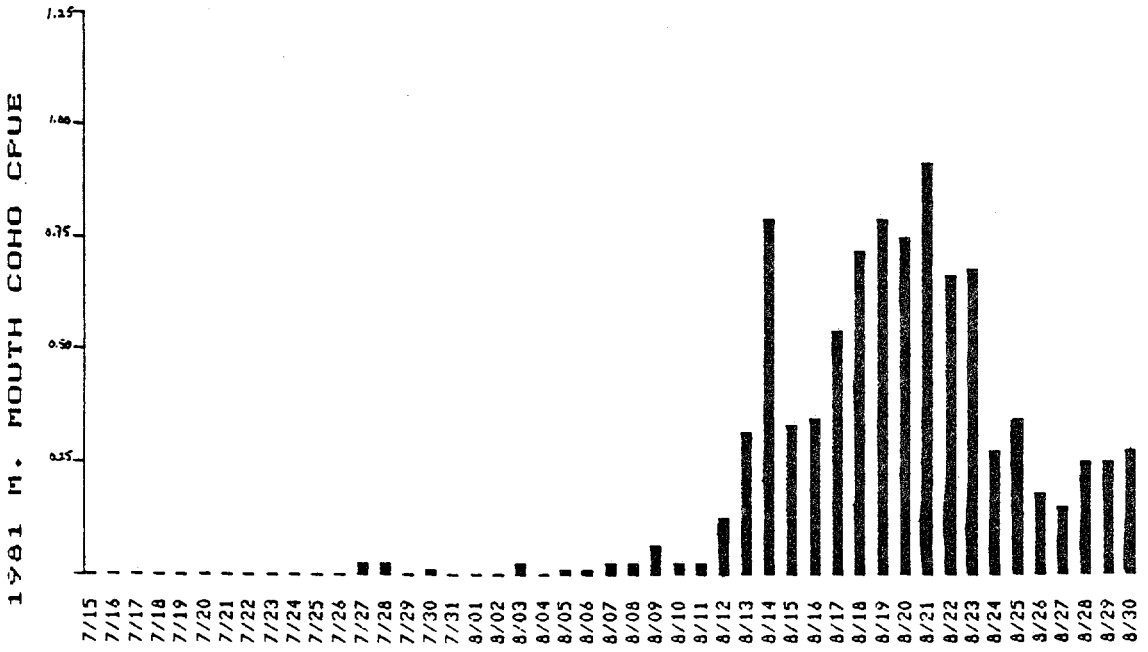
Graph D-6. 1981 Middle Mouth daily fall chum salmon CPUE from sites #1, #2, and #3 combined.



Graph D-7. 1981 Big Eddy daily coho salmon CPUE from sites #1 and #2 combined.



Graph D-8. 1981 Middle Mouth daily coho salmon CPUE from sites #1, #2, and #3 combined.



Appendix E. District 1 commercial daily and cumulative CPUE and relative CPUE, 1981.

The tables in Appendix E are computer reports from the program "TIMEDENS.BAS" and the Vector Graphic microcomputer. These tables are analogous in all other regards to the test fishing tables in Appendix C.

Table		Page
E-1	1981 Yukon District 1 commercial chinook salmon CPUE with daily proportions, mean day, and variance.	68
E-2	1981 Yukon District 1 commercial summer chum salmon CPUE with daily proportions, mean day, and variance.	69
E-3	1981 Yukon District 1 commercial fall chum salmon CPUE with daily proportions, mean day, and variance.	70
E-4	1981 Yukon District 1 commercial coho salmon CPUE with daily proportions, mean day, and variance.	71

Appendix Table E-1. 1981 Yukon District 1 commercial chinook salmon CPUE with daily proportions, mean day, and variance.

DAY NO.	DATE	DAILY CPUE	CUME. CPUE	DAILY PROP.	CUME. PROP.
1	601	0.00	0.00	0.000	0.000
2	602	0.00	0.00	0.000	0.000
3	603	0.00	0.00	0.000	0.000
4	604	0.00	0.00	0.000	0.000
5	605	3.43	3.43	0.089	0.089
6	606	1.60	5.03	0.041	0.130
7	607	0.00	5.03	0.000	0.130
8	608	5.25	10.28	0.136	0.266
9	609	1.97	12.25	0.051	0.318
10	610	0.00	12.25	0.000	0.318
11	611	4.55	16.80	0.118	0.435
12	612	1.51	18.31	0.039	0.475
13	613	0.00	18.31	0.000	0.475
14	614	0.00	18.31	0.000	0.475
15	615	5.22	23.53	0.135	0.610
16	616	1.94	25.47	0.050	0.660
17	617	0.00	25.47	0.000	0.660
18	618	4.98	30.45	0.129	0.789
19	619	3.26	33.71	0.084	0.874
20	620	0.00	33.71	0.000	0.874
21	621	0.00	33.71	0.000	0.874
22	622	1.03	34.74	0.027	0.900
23	623	0.66	35.40	0.017	0.918
24	624	0.00	35.40	0.000	0.918
25	625	0.69	36.09	0.018	0.935
26	626	0.32	36.41	0.008	0.944
27	627	0.00	36.41	0.000	0.944
28	628	0.00	36.41	0.000	0.944
29	629	0.74	37.15	0.019	0.963
30	630	0.25	37.40	0.006	0.969
31	701	0.00	37.40	0.000	0.969
32	702	0.45	37.85	0.012	0.981
33	703	0.16	38.01	0.004	0.985
34	704	0.00	38.01	0.000	0.985
35	705	0.00	38.01	0.000	0.985
36	706	0.18	38.19	0.005	0.990
37	707	0.11	38.30	0.003	0.993
38	708	0.00	38.30	0.000	0.993
39	709	0.12	38.42	0.003	0.996
40	710	0.06	38.48	0.002	0.997
41	711	0.00	38.48	0.000	0.997
42	712	0.00	38.48	0.000	0.997
43	713	0.06	38.54	0.002	0.999
44	714	0.04	38.58	0.001	1.000
45	715	0.00	38.58	0.000	1.000
		38.58			

MEAN DAY NO. = 14.2 VARIANCE = 48.4

Appendix Table E-2. 1981 Yukon District 1 commercial summer chum salmon CPUE with daily proportions, mean day, and variance.

DAY NO.	DATE	DAILY CPUE	CUME. CPUE	DAILY PROP.	CUME. PROP.
1	601	0.00	0.00	0.000	0.000
2	602	0.00	0.00	0.000	0.000
3	603	0.00	0.00	0.000	0.000
4	604	0.00	0.00	0.000	0.000
5	605	0.66	0.66	0.003	0.003
6	606	0.29	0.95	0.001	0.004
7	607	0.00	0.95	0.000	0.004
8	608	1.73	2.68	0.008	0.012
9	609	0.84	3.52	0.004	0.016
10	610	0.00	3.52	0.000	0.016
11	611	7.09	10.61	0.031	0.047
12	612	3.52	14.13	0.016	0.063
13	613	0.00	14.13	0.000	0.063
14	614	0.00	14.13	0.000	0.063
15	615	3.97	18.10	0.018	0.080
16	616	1.49	19.59	0.007	0.087
17	617	0.00	19.59	0.000	0.087
18	618	12.60	32.19	0.056	0.143
19	619	6.90	39.09	0.031	0.174
20	620	0.00	39.09	0.000	0.174
21	621	0.00	39.09	0.000	0.174
22	622	10.38	49.47	0.046	0.220
23	623	5.28	54.75	0.023	0.243
24	624	0.00	54.75	0.000	0.243
25	625	32.03	86.78	0.142	0.385
26	626	15.40	102.18	0.068	0.454
27	627	0.00	102.18	0.000	0.454
28	628	0.00	102.18	0.000	0.454
29	629	30.66	132.84	0.136	0.590
30	630	9.17	142.01	0.041	0.630
31	701	0.00	142.01	0.000	0.630
32	702	16.90	158.91	0.075	0.705
33	703	9.97	168.88	0.044	0.750
34	704	0.00	168.88	0.000	0.750
35	705	0.00	168.88	0.000	0.750
36	706	16.99	185.87	0.075	0.825
37	707	6.86	192.73	0.030	0.856
38	708	0.00	192.73	0.000	0.856
39	709	12.92	205.65	0.057	0.913
40	710	4.68	210.33	0.021	0.934
41	711	0.00	210.33	0.000	0.934
42	712	0.00	210.33	0.000	0.934
43	713	10.90	221.23	0.048	0.982
44	714	4.05	225.28	0.018	1.000
45	715	0.00	225.28	0.000	1.000
		225.28			

MEAN DAY NO. = 28.3 VARIANCE = 70.7

Appendix Table E-3. 1981 Yukon District 1 commercial fall chum salmon CPUE with daily proportions, mean day, and variance.

DAY NO.	DATE	DAILY CPUE	CUME. CPUE	DAILY PROP.	CUME. PROP.
1	715	0.00	0.00	0.000	0.000
2	716	14.62	14.62	0.144	0.144
3	717	5.90	20.52	0.058	0.203
4	718	0.00	20.52	0.000	0.203
5	719	0.00	20.52	0.000	0.203
6	720	4.07	24.59	0.040	0.243
7	721	1.55	26.14	0.015	0.258
8	722	0.00	26.14	0.000	0.258
9	723	2.99	29.13	0.030	0.288
10	724	1.01	30.14	0.010	0.298
11	725	0.00	30.14	0.000	0.298
12	726	0.00	30.14	0.000	0.298
13	727	19.17	49.31	0.189	0.487
14	728	8.45	57.76	0.083	0.570
15	729	0.00	57.76	0.000	0.570
16	730	12.71	70.47	0.125	0.696
17	731	3.80	74.27	0.038	0.733
18	801	0.00	74.27	0.000	0.733
19	802	0.00	74.27	0.000	0.733
20	803	0.00	74.27	0.000	0.733
21	804	0.00	74.27	0.000	0.733
22	805	0.00	74.27	0.000	0.733
23	806	0.00	74.27	0.000	0.733
24	807	0.00	74.27	0.000	0.733
25	808	0.00	74.27	0.000	0.733
26	809	0.00	74.27	0.000	0.733
27	810	0.00	74.27	0.000	0.733
28	811	0.00	74.27	0.000	0.733
29	812	0.00	74.27	0.000	0.733
30	813	16.36	90.63	0.162	0.895
31	814	7.47	98.10	0.074	0.969
32	815	0.00	98.10	0.000	0.969
33	816	0.00	98.10	0.000	0.969
34	817	1.86	99.96	0.018	0.987
35	818	1.32	101.28	0.013	1.000
		101.28			

MEAN DAY NO. = 15.7 VARIANCE = 106.1

Appendix Table E-4. 1981 Yukon District 1 commercial coho salmon CPUE with daily proportions, mean day, and variance.

DAY NO.	DATE	DAILY CPUE	CUME. CPUE	DAILY PROP.	CUME. PROP.
1	715	0.00	0.00	0.000	0.000
2	716	0.00	0.00	0.000	0.000
3	717	0.00	0.00	0.000	0.000
4	718	0.00	0.00	0.000	0.000
5	719	0.00	0.00	0.000	0.000
6	720	0.00	0.00	0.000	0.000
7	721	0.00	0.00	0.000	0.000
8	722	0.00	0.00	0.000	0.000
9	723	0.00	0.00	0.000	0.000
10	724	0.00	0.00	0.000	0.000
11	725	0.00	0.00	0.000	0.000
12	726	0.00	0.00	0.000	0.000
13	727	0.02	0.02	0.003	0.003
14	728	0.10	0.12	0.013	0.015
15	729	0.00	0.12	0.000	0.015
16	730	0.02	0.14	0.003	0.018
17	731	0.01	0.15	0.001	0.019
18	801	0.00	0.15	0.000	0.019
19	802	0.00	0.15	0.000	0.019
20	803	0.00	0.15	0.000	0.019
21	804	0.00	0.15	0.000	0.019
22	805	0.00	0.15	0.000	0.019
23	806	0.00	0.15	0.000	0.019
24	807	0.00	0.15	0.000	0.019
25	808	0.00	0.15	0.000	0.019
26	809	0.00	0.15	0.000	0.019
27	810	0.00	0.15	0.000	0.019
28	811	0.00	0.15	0.000	0.019
29	812	0.00	0.15	0.000	0.019
30	813	2.43	2.58	0.314	0.333
31	814	1.53	4.11	0.197	0.530
32	815	0.00	4.11	0.000	0.530
33	816	0.00	4.11	0.000	0.530
34	817	2.09	6.20	0.270	0.800
35	818	1.55	7.75	0.200	1.000
		7.75			

MEAN DAY NO. = 32.0 VARIANCE = 10.4

Appendix F. Test fishery daily and cumulative CPUE and relative CPUE, 1977-1980.

Table		Page
F-1	1980 Big Eddy daily chinook salmon CPUE (all sites combined) with daily proportions, mean day, and variance.	73
F-2	1980 Middle Mouth daily chinook salmon CPUE (all sites combined) with daily proportions, mean day, and variance.	74
F-3	1980 Big Eddy daily summer chum salmon CPUE (all sites combined) with daily proportions, mean day, and variance.	75
F-4	1980 Middle Mouth daily summer chum salmon CPUE (all sites combined) with daily proportions, mean day, and variance.	76
F-5	1980 Big Eddy fall chum salmon CPUE (all sites combined) with daily proportions, mean day, and variance.	77
F-6	1980 Middle Mouth daily fall chum salmon CPUE (all sites combined) with daily proportions, mean day, and variance.	78
F-7	1980 Big Eddy daily coho salmon CPUE (all sites combined) with daily proportions, mean day, and variance.	79
F-8	1980 Middle Mouth daily coho salmon CPUE (all sites combined) with daily proportions, mean day, and variance.	80
F-9	1979 Big Eddy daily fall chum catch (two 6-inch set gill nets) with daily proportion, mean day, and variance.	81
F-10	1978 Big Eddy fall chum catch (two 6-inch set gill nets) with daily proportion, mean day, and variance.	82
F-11	1977 Big Eddy fall chum catch (two 6-inch set gill nets) with daily proportions, mean day, and variance.	83

Appendix Table F-1. 1980 Big Eddy daily chinook salmon CPUE (all sites combined) with daily proportions, mean day, and variance.

DAY NO.	DATE	CATCH	HOURS	DAILY C.P.U.E.	CUME. C.P.U.E.	DAILY PROP.	CUME. PROP.
1	527	0	6	0.00	0.00	0.000	0.000
2	528	0	24	0.00	0.00	0.000	0.000
3	529	0	24	0.00	0.00	0.000	0.000
4	530	1	29	0.03	0.03	0.002	0.002
5	531	8	48	0.17	0.20	0.008	0.009
6	601	3	48	0.06	0.26	0.003	0.012
7	602	13	57	0.23	0.49	0.010	0.022
8	603	34	48	0.71	1.20	0.032	0.054
9	604	55	48	1.15	2.35	0.052	0.106
10	605	66	72	0.92	3.26	0.041	0.147
11	606	56	72	0.78	4.04	0.035	0.182
12	607	39	72	0.54	4.58	0.024	0.207
13	608	77	72	1.07	5.65	0.048	0.255
14	609	44	72	0.61	6.26	0.028	0.283
15	610	2	72	0.03	6.29	0.001	0.284
16	611	82	72	1.14	7.43	0.051	0.336
17	612	91	72	1.26	8.69	0.057	0.393
18	613	28	72	0.39	9.08	0.018	0.410
19	614	94	72	1.31	10.39	0.059	0.469
20	615	59	72	0.82	11.21	0.037	0.506
21	616	94	66	1.42	12.63	0.064	0.571
22	617	45	54	0.83	13.46	0.038	0.608
23	618	130	72	1.81	15.27	0.082	0.690
24	619	89	36	2.47	17.74	0.112	0.801
25	620	42	36	1.17	18.91	0.053	0.854
26	621	21	54	0.39	19.30	0.018	0.872
27	622	14	51	0.27	19.57	0.012	0.884
28	623	5	66	0.08	19.65	0.003	0.887
29	624	2	59	0.03	19.68	0.002	0.889
30	625	4	72	0.06	19.74	0.003	0.891
31	626	27	72	0.38	20.11	0.017	0.908
32	627	32	72	0.44	20.56	0.020	0.928
33	628	20	72	0.28	20.83	0.013	0.941
34	629	14	72	0.19	21.03	0.009	0.950
35	630	4	72	0.06	21.08	0.003	0.952
36	701	9	72	0.13	21.21	0.006	0.958
37	702	17	72	0.24	21.45	0.011	0.969
38	703	15	72	0.21	21.65	0.009	0.978
39	704	8	72	0.11	21.77	0.005	0.983
40	705	9	72	0.13	21.89	0.006	0.989
41	706	4	72	0.06	21.95	0.003	0.991
42	707	4	72	0.06	22.00	0.003	0.994
43	708	2	72	0.03	22.03	0.001	0.995
44	709	2	72	0.03	22.06	0.001	0.996
45	710	0	72	0.00	22.06	0.000	0.996
46	711	0	72	0.00	22.06	0.000	0.996
47	712	4	72	0.06	22.11	0.003	0.999
48	713	0	72	0.00	22.11	0.000	0.999
49	714	2	72	0.03	22.14	0.001	1.000
50	715	0	72	0.00	22.14	0.000	1.000
		1,371	3,130	22.14			

MEAN DAY NO. = 19.9 VARIANCE = 62.1

Appendix Table F-2. 1980 Middle Mouth daily chinook salmon CPUE (all sites combined) with daily proportions, mean day, and variance.

DAY NO.	DATE	CATCH	HOURS	DAILY C.P.U.E.	CUME. C.P.U.E.	DAILY PROP.	CUME. PROP.
1	531	0	7	0.00	0.00	0.000	0.000
2	601	14	52	0.27	0.27	0.007	0.007
3	602	3	72	0.04	0.31	0.001	0.008
4	603	9	72	0.13	0.44	0.003	0.011
5	604	9	72	0.13	0.56	0.003	0.014
6	605	27	72	0.38	0.94	0.009	0.023
7	606	58	72	0.81	1.74	0.020	0.042
8	607	34	72	0.47	2.21	0.011	0.054
9	608	138	72	1.92	4.13	0.046	0.100
10	609	86	66	1.30	5.43	0.032	0.132
11	610	22	54	0.41	5.84	0.010	0.142
12	611	201	72	2.79	8.63	0.068	0.209
13	612	204	66	3.09	11.72	0.075	0.284
14	613	38	48	0.79	12.52	0.019	0.304
15	614	111	66	1.68	14.20	0.041	0.344
16	615	50	72	0.69	14.89	0.017	0.361
17	616	63	66	0.95	15.85	0.023	0.384
18	617	73	54	1.35	17.20	0.033	0.417
19	618	310	72	4.31	21.50	0.104	0.522
20	619	189	66	2.86	24.37	0.069	0.591
21	620	79	48	1.65	26.01	0.040	0.631
22	621	96	66	1.45	27.47	0.035	0.666
23	622	125	72	1.74	29.20	0.042	0.708
24	623	38	66	0.58	29.78	0.014	0.722
25	624	10	60	0.17	29.95	0.004	0.727
26	625	33	72	0.46	30.40	0.011	0.738
27	626	76	62	1.23	31.63	0.030	0.767
28	627	46	62	0.74	32.37	0.018	0.785
29	628	79	72	1.10	33.47	0.027	0.812
30	629	104	72	1.44	34.91	0.035	0.847
31	630	42	72	0.58	35.50	0.014	0.861
32	701	25	72	0.35	35.84	0.008	0.870
33	702	44	72	0.61	36.46	0.015	0.884
34	703	86	72	1.19	37.65	0.029	0.913
35	704	70	72	0.97	38.62	0.024	0.937
36	705	31	72	0.43	39.05	0.010	0.947
37	706	69	72	0.96	40.01	0.023	0.971
38	707	29	72	0.40	40.41	0.010	0.980
39	708	11	72	0.15	40.57	0.004	0.984
40	709	8	72	0.11	40.68	0.003	0.987
41	710	6	72	0.08	40.76	0.002	0.989
42	711	5	72	0.07	40.83	0.002	0.991
43	712	7	72	0.10	40.93	0.002	0.993
44	713	10	72	0.14	41.07	0.003	0.996
45	714	10	72	0.14	41.21	0.003	1.000
46	715	1	72	0.01	41.22	0.000	1.000
		2,779	3,069	41.22			

MEAN DAY NO. = 20.3 VARIANCE = 78.7

Appendix Table F-3. 1980 Big Eddy daily summer chum salmon CPUE (all sites combined) with daily proportions, mean day, and variance.

DAY NO.	DATE	CATCH	HOURS	DAILY C.P.U.E.	CUME. C.P.U.E.	DAILY PROP.	CUME. PROP.
1	527	0	6	0.00	0.00	0.000	0.000
2	528	0	24	0.00	0.00	0.000	0.000
3	529	0	24	0.00	0.00	0.000	0.000
4	530	0	29	0.00	0.00	0.000	0.000
5	531	0	48	0.00	0.00	0.000	0.000
6	601	0	48	0.00	0.00	0.000	0.000
7	602	0	57	0.00	0.00	0.000	0.000
8	603	49	48	1.02	1.02	0.024	0.024
9	604	52	48	1.08	2.10	0.026	0.050
10	605	86	72	1.19	3.30	0.029	0.079
11	606	129	72	1.79	5.09	0.043	0.121
12	607	59	72	0.82	5.91	0.020	0.141
13	608	211	72	2.93	8.84	0.070	0.211
14	609	148	72	2.06	10.90	0.049	0.260
15	610	4	72	0.06	10.95	0.001	0.261
16	611	147	72	2.04	12.99	0.049	0.310
17	612	197	72	2.74	15.73	0.065	0.375
18	613	77	72	1.07	16.80	0.026	0.401
19	614	85	72	1.18	17.98	0.028	0.429
20	615	95	72	1.32	19.30	0.031	0.461
21	616	36	66	0.55	19.84	0.013	0.474
22	617	19	54	0.35	20.20	0.008	0.482
23	618	68	72	0.94	21.14	0.023	0.504
24	619	180	36	5.00	26.14	0.119	0.624
25	620	0	36	0.00	26.14	0.000	0.624
26	621	174	54	3.22	29.36	0.077	0.701
27	622	252	51	4.94	34.30	0.118	0.819
28	623	244	66	3.70	38.00	0.088	0.907
29	624	14	59	0.24	38.24	0.006	0.912
30	625	18	72	0.25	38.49	0.006	0.918
31	626	33	72	0.46	38.95	0.011	0.929
32	627	9	72	0.13	39.07	0.003	0.932
33	628	9	72	0.13	39.20	0.003	0.935
34	629	4	72	0.06	39.25	0.001	0.937
35	630	4	72	0.06	39.31	0.001	0.938
36	701	2	72	0.03	39.34	0.001	0.939
37	702	8	72	0.11	39.45	0.003	0.941
38	703	45	72	0.63	40.07	0.015	0.956
39	704	23	72	0.32	40.39	0.008	0.964
40	705	11	72	0.15	40.54	0.004	0.968
41	706	17	72	0.24	40.78	0.006	0.973
42	707	6	72	0.08	40.86	0.002	0.975
43	708	3	72	0.04	40.90	0.001	0.976
44	709	11	72	0.15	41.06	0.004	0.980
45	710	4	72	0.06	41.11	0.001	0.981
46	711	2	72	0.03	41.14	0.001	0.982
47	712	8	72	0.11	41.25	0.003	0.984
48	713	12	72	0.17	41.42	0.004	0.988
49	714	27	72	0.38	41.79	0.009	0.997
50	715	8	72	0.11	41.90	0.003	1.000
		2,590	3,130	41.90			

MEAN DAY NO. = 21.6 VARIANCE = 70.8

Appendix Table F-4. 1980 Middle Mouth daily summer chum salmon CPUE (all sizes combined) with daily proportions, mean day, and variance.

DAY NO.	DATE	CATCH	HOURS	DAILY C.P.U.E.	CUME. C.P.U.E.	DAILY PROP.	CUME. PROP.
1	531	0	7	0.00	0.00	0.000	0.000
2	601	3	52	0.06	0.06	0.001	0.001
3	602	2	72	0.03	0.09	0.001	0.002
4	603	1	72	0.01	0.10	0.000	0.002
5	604	0	72	0.00	0.10	0.000	0.002
6	605	1	72	0.01	0.11	0.000	0.002
7	606	15	72	0.21	0.32	0.004	0.007
8	607	7	72	0.10	0.42	0.002	0.009
9	608	36	72	0.50	0.92	0.011	0.019
10	609	36	66	0.55	1.46	0.012	0.031
11	610	1	54	0.02	1.48	0.000	0.031
12	611	28	72	0.39	1.87	0.008	0.040
13	612	165	66	2.50	4.37	0.053	0.093
14	613	1	48	0.02	4.39	0.000	0.093
15	614	74	66	1.12	5.51	0.024	0.117
16	615	31	72	0.43	5.94	0.009	0.126
17	616	1	66	0.02	5.96	0.000	0.126
18	617	54	54	1.00	6.96	0.021	0.148
19	618	214	72	2.97	9.93	0.063	0.211
20	619	180	66	2.73	12.66	0.058	0.268
21	620	6	48	0.13	12.78	0.003	0.271
22	621	268	66	4.06	16.84	0.086	0.357
23	622	243	72	3.38	20.22	0.072	0.429
24	623	31	66	0.47	20.69	0.010	0.439
25	624	5	60	0.08	20.77	0.002	0.441
26	625	13	72	0.18	20.95	0.004	0.444
27	626	20	62	0.32	21.28	0.007	0.451
28	627	17	62	0.27	21.55	0.006	0.457
29	628	96	72	1.33	22.88	0.028	0.485
30	629	294	72	4.08	26.97	0.087	0.572
31	630	67	72	0.93	27.90	0.020	0.592
32	701	22	72	0.31	28.20	0.006	0.598
33	702	97	72	1.35	29.55	0.029	0.627
34	703	366	72	5.08	34.63	0.108	0.735
35	704	185	72	2.57	37.20	0.054	0.789
36	705	54	72	0.75	37.95	0.016	0.805
37	706	226	72	3.14	41.09	0.067	0.872
38	707	94	72	1.31	42.40	0.028	0.899
39	708	31	72	0.43	42.83	0.009	0.908
40	709	17	72	0.24	43.06	0.005	0.913
41	710	8	72	0.11	43.17	0.002	0.916
42	711	9	72	0.13	43.30	0.003	0.918
43	712	32	72	0.44	43.74	0.009	0.928
44	713	77	72	1.07	44.81	0.023	0.951
45	714	146	72	2.03	46.84	0.043	0.994
46	715	22	72	0.31	47.15	0.006	1.000
		3,296	3,069	47.15			

MEAN DAY NO. = 27.9 VARIANCE = 89.9

Appendix Table F-5. 1980 Big Eddy fall chum salmon CPUE (all sizes combined) with daily proportions, mean day, and variance.

DAY NO.	DATE	CATCH	HOURS	DAILY C.P.U.E.	CUME. C.P.U.E.	DAILY PROP.	CUME. PROP.
1	716	19	48	0.40	0.40	0.059	0.059
2	717	7	48	0.15	0.54	0.022	0.081
3	718	7	48	0.15	0.69	0.022	0.103
4	719	5	48	0.10	0.79	0.016	0.119
5	720	6	48	0.13	0.92	0.019	0.138
6	721	6	48	0.13	1.04	0.019	0.157
7	722	0	48	0.00	1.04	0.000	0.157
8	723	3	48	0.06	1.10	0.009	0.166
9	724	3	48	0.06	1.17	0.009	0.175
10	725	2	48	0.04	1.21	0.006	0.182
11	726	13	48	0.27	1.48	0.041	0.222
12	727	66	48	1.38	2.85	0.207	0.429
13	728	11	48	0.23	3.08	0.034	0.463
14	729	2	24	0.08	3.17	0.013	0.476
15	730	0	48	0.00	3.17	0.000	0.476
16	731	0	48	0.00	3.17	0.000	0.476
17	801	2	48	0.04	3.21	0.006	0.482
18	802	1	48	0.02	3.23	0.003	0.485
19	803	4	48	0.08	3.31	0.013	0.498
20	804	0	48	0.00	3.31	0.000	0.498
21	805	0	48	0.00	3.31	0.000	0.498
22	806	11	48	0.23	3.54	0.034	0.532
23	807	2	48	0.04	3.58	0.006	0.539
24	808	15	48	0.31	3.90	0.047	0.586
25	809	13	36	0.36	4.26	0.054	0.640
26	810	20	60	0.33	4.59	0.050	0.690
27	811	8	48	0.17	4.76	0.025	0.715
28	812	5	48	0.10	4.86	0.016	0.731
29	813	9	48	0.19	5.05	0.028	0.759
30	814	2	48	0.04	5.09	0.006	0.765
31	815	5	48	0.10	5.19	0.016	0.781
32	816	4	48	0.08	5.28	0.013	0.793
33	817	10	48	0.21	5.49	0.031	0.825
34	818	14	48	0.29	5.78	0.044	0.868
35	819	3	48	0.06	5.84	0.009	0.878
36	820	3	48	0.06	5.90	0.009	0.887
37	821	14	48	0.29	6.19	0.044	0.931
38	822	4	48	0.08	6.28	0.013	0.944
39	823	1	48	0.02	6.30	0.003	0.947
40	824	1	48	0.02	6.32	0.003	0.950
41	825	7	48	0.15	6.47	0.022	0.972
42	826	4	48	0.08	6.55	0.013	0.984
43	827	0	48	0.00	6.55	0.000	0.984
44	828	0	48	0.00	6.55	0.000	0.984
45	829	2	48	0.04	6.59	0.006	0.991
46	830	3	48	0.06	6.65	0.009	1.000
		317	2,184	6.65			

MEAN DAY NO. = 20.0 VARIANCE = 145.2

Appendix Table F-6. 1980 Middle Mouth daily fall chum salmon CPUE (all sizes combined) with daily proportions, mean day, and variance.

DAY NO.	DATE	CATCH	HOURS	DAILY C.P.U.E.	CUME. C.P.U.E.	DAILY PROP.	CUME. PROP.
1	716	15	48	0.31	0.31	0.013	0.013
2	717	15	48	0.31	0.63	0.013	0.027
3	718	9	48	0.19	0.81	0.008	0.035
4	719	2	48	0.04	0.85	0.002	0.037
5	720	55	48	1.15	2.00	0.049	0.086
6	721	24	48	0.50	2.50	0.021	0.107
7	722	22	48	0.46	2.96	0.020	0.127
8	723	25	48	0.52	3.48	0.022	0.149
9	724	10	48	0.21	3.69	0.009	0.158
10	725	10	48	0.21	3.90	0.009	0.167
11	726	82	48	1.71	5.60	0.073	0.240
12	727	60	48	1.25	6.85	0.054	0.293
13	728	64	48	1.33	8.19	0.057	0.351
14	729	28	48	0.58	8.77	0.025	0.376
15	730	4	48	0.08	8.85	0.004	0.379
16	731	3	48	0.06	8.92	0.003	0.382
17	801	3	48	0.06	8.98	0.003	0.384
18	802	1	48	0.02	9.00	0.001	0.385
19	803	8	48	0.17	9.17	0.007	0.393
20	804	25	48	0.52	9.69	0.022	0.415
21	805	7	48	0.15	9.83	0.006	0.421
22	806	41	48	0.85	10.69	0.037	0.458
23	807	94	48	1.96	12.65	0.084	0.541
24	808	25	48	0.52	13.17	0.022	0.564
25	809	35	48	0.73	13.90	0.031	0.595
26	810	16	48	0.33	14.23	0.014	0.609
27	811	21	48	0.44	14.67	0.019	0.628
28	812	3	48	0.06	14.73	0.003	0.631
29	813	2	48	0.04	14.77	0.002	0.632
30	814	9	48	0.19	14.96	0.008	0.640
31	815	9	48	0.19	15.15	0.008	0.649
32	816	9	48	0.19	15.33	0.008	0.657
33	817	23	48	0.48	15.81	0.021	0.677
34	818	59	48	1.23	17.04	0.053	0.730
35	819	49	48	1.02	18.06	0.044	0.773
36	820	14	48	0.29	18.35	0.012	0.786
37	821	31	48	0.65	19.00	0.028	0.814
38	822	8	48	0.17	19.17	0.007	0.821
39	823	7	48	0.15	19.31	0.006	0.827
40	824	10	48	0.21	19.52	0.009	0.836
41	825	26	48	0.54	20.06	0.023	0.859
42	826	52	48	1.08	21.15	0.046	0.905
43	827	33	48	0.69	21.83	0.029	0.935
44	828	14	48	0.29	22.13	0.012	0.947
45	829	19	48	0.40	22.52	0.017	0.964
46	830	40	48	0.83	23.35	0.036	1.000
		1,121	2,208	23.35			

MEAN DAY NO. = 23.6 VARIANCE = 175.8

Appendix Table F-7. 1980 Big Eddy daily coho salmon CPUE (all sizes combined) with daily proportions, mean day, and variance.

DAY NO.	DATE	CATCH	HOURS	DAILY C.P.U.E.	CUME. C.P.U.E.	DAILY PROP.	CUME. PROP.
1	716	0	48	0.00	0.00	0.000	0.000
2	717	0	48	0.00	0.00	0.000	0.000
3	718	0	48	0.00	0.00	0.000	0.000
4	719	0	48	0.00	0.00	0.000	0.000
5	720	0	48	0.00	0.00	0.000	0.000
6	721	0	48	0.00	0.00	0.000	0.000
7	722	0	48	0.00	0.00	0.000	0.000
8	723	0	48	0.00	0.00	0.000	0.000
9	724	0	48	0.00	0.00	0.000	0.000
10	725	0	48	0.00	0.00	0.000	0.000
11	726	0	48	0.00	0.00	0.000	0.000
12	727	0	48	0.00	0.00	0.000	0.000
13	728	0	48	0.00	0.00	0.000	0.000
14	729	0	24	0.00	0.00	0.000	0.000
15	730	0	48	0.00	0.00	0.000	0.000
16	731	0	48	0.00	0.00	0.000	0.000
17	801	0	48	0.00	0.00	0.000	0.000
18	802	0	48	0.00	0.00	0.000	0.000
19	803	0	48	0.00	0.00	0.000	0.000
20	804	0	48	0.00	0.00	0.000	0.000
21	805	0	48	0.00	0.00	0.000	0.000
22	806	0	48	0.00	0.00	0.000	0.000
23	807	0	48	0.00	0.00	0.000	0.000
24	808	0	48	0.00	0.00	0.000	0.000
25	809	0	36	0.00	0.00	0.000	0.000
26	810	1	60	0.02	0.02	0.016	0.016
27	811	2	48	0.04	0.06	0.040	0.056
28	812	0	48	0.00	0.06	0.000	0.056
29	813	2	48	0.04	0.10	0.040	0.096
30	814	2	48	0.04	0.14	0.040	0.137
31	815	3	48	0.06	0.20	0.060	0.197
32	816	1	48	0.02	0.23	0.020	0.217
33	817	2	48	0.04	0.27	0.040	0.257
34	818	0	48	0.00	0.27	0.000	0.257
35	819	0	48	0.00	0.27	0.000	0.257
36	820	4	48	0.08	0.35	0.080	0.337
37	821	3	48	0.06	0.41	0.060	0.398
38	822	2	48	0.04	0.45	0.040	0.438
39	823	3	48	0.06	0.52	0.060	0.498
40	824	1	48	0.02	0.54	0.020	0.518
41	825	6	48	0.13	0.66	0.120	0.639
42	826	2	48	0.04	0.70	0.040	0.679
43	827	3	48	0.06	0.77	0.060	0.739
44	828	7	48	0.15	0.91	0.141	0.880
45	829	4	48	0.08	1.00	0.080	0.960
46	830	2	48	0.04	1.04	0.040	1.000
		50	2,184	1.04			

MEAN DAY NO. = 38.4 VARIANCE = 32.9

Appendix Table F-8. 1980 Middle Mouth daily coho salmon CPUE (all sites combined) with daily proportions, mean day, and variance.

DAY NO.	DATE	CATCH	HOURS	DAILY C.P.U.E.	CUME. C.P.U.E.	DAILY PROP.	CUME. PROP.
1	716	0	48	0.00	0.00	0.000	0.000
2	717	0	48	0.00	0.00	0.000	0.000
3	718	0	48	0.00	0.00	0.000	0.000
4	719	0	48	0.00	0.00	0.000	0.000
5	720	0	48	0.00	0.00	0.000	0.000
6	721	2	48	0.04	0.04	0.015	0.015
7	722	0	48	0.00	0.04	0.000	0.015
8	723	0	48	0.00	0.04	0.000	0.015
9	724	0	48	0.00	0.04	0.000	0.015
10	725	0	48	0.00	0.04	0.000	0.015
11	726	0	48	0.00	0.04	0.000	0.015
12	727	0	48	0.00	0.04	0.000	0.015
13	728	0	48	0.00	0.04	0.000	0.015
14	729	1	48	0.02	0.06	0.008	0.023
15	730	0	48	0.00	0.06	0.000	0.023
16	731	2	48	0.04	0.10	0.015	0.038
17	801	0	48	0.00	0.10	0.000	0.038
18	802	0	48	0.00	0.10	0.000	0.038
19	803	0	48	0.00	0.10	0.000	0.038
20	804	1	48	0.02	0.13	0.008	0.045
21	805	0	48	0.00	0.13	0.000	0.045
22	806	0	48	0.00	0.13	0.000	0.045
23	807	0	48	0.00	0.13	0.000	0.045
24	808	0	48	0.00	0.13	0.000	0.045
25	809	4	48	0.08	0.21	0.030	0.076
26	810	0	48	0.00	0.21	0.000	0.076
27	811	0	48	0.00	0.21	0.000	0.076
28	812	0	48	0.00	0.21	0.000	0.076
29	813	0	48	0.00	0.21	0.000	0.076
30	814	5	48	0.10	0.31	0.038	0.114
31	815	5	48	0.10	0.42	0.038	0.152
32	816	5	48	0.10	0.52	0.038	0.189
33	817	2	48	0.04	0.56	0.015	0.205
34	818	7	48	0.15	0.71	0.053	0.258
35	819	7	48	0.15	0.85	0.053	0.311
36	820	10	48	0.21	1.06	0.076	0.386
37	821	12	48	0.25	1.31	0.091	0.477
38	822	4	48	0.08	1.40	0.030	0.508
39	823	9	48	0.19	1.58	0.068	0.576
40	824	11	48	0.23	1.81	0.083	0.659
41	825	3	48	0.06	1.88	0.023	0.682
42	826	3	48	0.06	1.94	0.023	0.705
43	827	9	48	0.19	2.13	0.068	0.773
44	828	4	48	0.08	2.21	0.030	0.803
45	829	9	48	0.19	2.40	0.068	0.871
46	830	17	48	0.35	2.75	0.129	1.000
		132	2,208	2.75			

MEAN DAY NO. = 37.4 VARIANCE = 57.5

Appendix Table F-9. 1979 Big Eddy daily fall chum catch (two 6-inch set gill nets) with daily proportion, mean day, and variance.

DAY NO.	DATE	DAILY CATCH	CUME. CATCH	DAILY PROP.	CUME. PROP.
1	715	13	13	0.007	0.007
2	716	20	33	0.011	0.018
3	717	13	46	0.007	0.026
4	718	78	124	0.044	0.069
5	719	56	180	0.031	0.101
6	720	4	184	0.002	0.103
7	721	2	186	0.001	0.104
8	722	5	191	0.003	0.107
9	723	8	199	0.004	0.111
10	724	9	208	0.005	0.116
11	725	28	236	0.016	0.132
12	726	73	309	0.041	0.173
13	727	1	310	0.001	0.173
14	728	50	360	0.028	0.201
15	729	54	414	0.030	0.232
16	730	5	419	0.003	0.234
17	731	5	424	0.003	0.237
18	801	34	458	0.019	0.256
19	802	15	473	0.008	0.265
20	803	53	526	0.030	0.294
21	804	226	752	0.126	0.421
22	805	513	1,265	0.287	0.708
23	806	202	1,467	0.113	0.821
24	807	31	1,498	0.017	0.838
25	808	4	1,502	0.002	0.841
26	809	1	1,503	0.001	0.841
27	810	0	1,503	0.000	0.841
28	811	14	1,517	0.008	0.849
29	812	8	1,525	0.004	0.853
30	813	41	1,566	0.023	0.876
31	814	2	1,568	0.001	0.877
32	815	2	1,570	0.001	0.879
33	816	0	1,570	0.000	0.879
34	817	96	1,666	0.054	0.932
35	818	17	1,683	0.010	0.942
36	819	12	1,695	0.007	0.949
37	820	4	1,699	0.002	0.951
38	821	12	1,711	0.007	0.957
39	822	6	1,717	0.003	0.961
40	823	5	1,722	0.003	0.964
41	824	3	1,725	0.002	0.965
42	825	10	1,735	0.006	0.971
43	826	52	1,787	0.029	1.000
44	827	0	1,787	0.000	1.000
45	828	0	1,787	0.000	1.000
46	829	0	1,787	0.000	1.000
47	830	0	1,787	0.000	1.000
		1,787			

MEAN DAY NO. = 20.9 VARIANCE = 78.1

Appendix Table F-10. 1978 Big Eddy fall chum catch (two 6-inch set gill nets) with daily proportion, mean day, and variance.

DAY NO.	DATE	DAILY CATCH	CUME. CATCH	DAILY PROP.	CUME. PROP.
1	715	3	3	0.002	0.002
2	716	40	43	0.020	0.022
3	717	22	65	0.011	0.033
4	718	3	68	0.002	0.034
5	719	7	75	0.004	0.038
6	720	5	80	0.003	0.040
7	721	20	100	0.010	0.050
8	722	74	174	0.037	0.087
9	723	32	206	0.016	0.103
10	724	138	344	0.069	0.172
11	725	108	452	0.054	0.226
12	726	110	562	0.055	0.281
13	727	41	603	0.021	0.302
14	728	1	604	0.001	0.302
15	729	24	628	0.012	0.314
16	730	442	1,070	0.221	0.536
17	731	131	1,201	0.066	0.601
18	801	1	1,202	0.001	0.602
19	802	9	1,211	0.005	0.606
20	803	5	1,216	0.003	0.609
21	804	0	1,216	0.000	0.609
22	805	1	1,217	0.001	0.609
23	806	1	1,218	0.001	0.610
24	807	2	1,220	0.001	0.611
25	808	8	1,228	0.004	0.615
26	809	107	1,335	0.054	0.668
27	810	6	1,341	0.003	0.671
28	811	4	1,345	0.002	0.673
29	812	16	1,361	0.008	0.681
30	813	75	1,436	0.038	0.719
31	814	36	1,472	0.018	0.737
32	815	0	1,472	0.000	0.737
33	816	5	1,477	0.003	0.739
34	817	30	1,507	0.015	0.754
35	818	2	1,509	0.001	0.755
36	819	76	1,585	0.038	0.793
37	820	25	1,610	0.013	0.806
38	821	317	1,927	0.159	0.964
39	822	17	1,944	0.009	0.973
40	823	24	1,968	0.012	0.985
41	824	10	1,978	0.005	0.990
42	825	3	1,981	0.002	0.991
43	826	3	1,984	0.002	0.993
44	827	1	1,985	0.001	0.993
45	828	4	1,989	0.002	0.995
46	829	2	1,991	0.001	0.996
47	830	7	1,998	0.004	1.000
		1,998			

MEAN DAY NO. = 21.4 VARIANCE = 132.9

Appendix Table F-11. 1977 Big Eddy daily fall chum catch (two 6-inch set gill nets) with daily proportions, mean day, and variance.

DAY NO.	DATE	DAILY CATCH	CUME. CATCH	DAILY PROP.	CUME. PROP.
1	715	0	0	0.000	0.000
2	716	0	0	0.000	0.000
3	717	0	0	0.000	0.000
4	718	0	0	0.000	0.000
5	719	0	0	0.000	0.000
6	720	0	0	0.000	0.000
7	721	1	1	0.000	0.000
8	722	13	14	0.005	0.006
9	723	23	37	0.009	0.015
10	724	11	48	0.004	0.019
11	725	322	370	0.128	0.147
12	726	13	383	0.005	0.152
13	727	182	565	0.072	0.224
14	728	89	654	0.035	0.260
15	729	26	680	0.010	0.270
16	730	62	742	0.025	0.294
17	731	33	775	0.013	0.308
18	801	23	798	0.009	0.317
19	802	5	803	0.002	0.319
20	803	89	892	0.035	0.354
21	804	28	920	0.011	0.365
22	805	13	933	0.005	0.370
23	806	32	965	0.013	0.383
24	807	56	1,021	0.022	0.405
25	808	535	1,556	0.212	0.617
26	809	203	1,759	0.081	0.698
27	810	27	1,786	0.011	0.709
28	811	21	1,807	0.008	0.717
29	812	1	1,808	0.000	0.717
30	813	14	1,822	0.006	0.723
31	814	14	1,836	0.006	0.729
32	815	277	2,113	0.110	0.838
33	816	85	2,198	0.034	0.872
34	817	57	2,255	0.023	0.895
35	818	50	2,305	0.020	0.915
36	819	25	2,330	0.010	0.925
37	820	58	2,388	0.023	0.948
38	821	17	2,405	0.007	0.954
39	822	66	2,471	0.026	0.981
40	823	16	2,487	0.006	0.987
41	824	3	2,490	0.001	0.988
42	825	7	2,497	0.003	0.991
43	826	15	2,512	0.006	0.997
44	827	3	2,515	0.001	0.998
45	828	5	2,520	0.002	1.000
46	829	0	2,520	0.000	1.000
47	830	0	2,520	0.000	1.000
		2,520			

MEAN DAY NO. = 23.6 VARIANCE = 77.5

Appendix G. Test fishery and commercial CPUE used in correlation analysis, 1981.

Table		Page
G-1	1981 Lower Yukon daily chinook and summer chum CPUE and corresponding commercial statistical area CPUE used in correlation analysis.	85
G-2	1981 Lower Yukon daily fall chum CPUE and corresponding commercial statistical area CPUE used in correlation analysis.	86

Appendix Table G-1. 1981 Lower Yukon daily chinook and summer chum CPUE and corresponding commercial statistical area CPUE used in correlation analysis[1].

REC		BEK	BECM	MMK	MMCM	STAT	SBEK	SBECM	SMMK	SMMCM	CBEK	CBECM	CBEKT	CMMK	CMMCM
9	— NO MESH SIZE RESTRICTION —	2.16	1.20	1.63	0.63	18	2.80	0.28	2.80	0.28	1.91	0.27	0.00	1.91	0.27
10		0.33	0.02	0.17	0.01	12	0.62	0.32	1.14	0.07	0.76	0.30	0.74	1.14	0.07
11		1.39	0.18	1.57	0.06	11	2.07	0.44	2.07	0.44	2.07	0.44	0.00	0.00	0.00
12		1.92	0.18	2.19	0.57	18	3.31	1.10	3.31	1.10	2.61	0.83	0.00	2.61	0.83
13		0.43	0.07	0.24	0.04	12	0.93	0.71	1.05	0.22	0.98	0.59	0.94	1.05	0.22
14		1.82	0.36	2.13	1.14	11	2.61	1.40	2.61	1.40	2.61	1.40	0.00	0.00	0.00
15		1.53	0.82	1.27	0.32	18	2.89	1.78	2.89	1.78	2.10	2.29	0.00	2.10	2.29
16		0.37	0.76	0.28	0.06	12	0.69	3.85	0.89	0.62	0.80	3.13	0.70	0.89	0.16
17		0.89	1.36	0.93	0.78	11	2.38	9.59	2.38	9.59	2.38	9.59	0.00	0.00	0.00
19		1.32	0.45	0.82	0.94	18	1.25	0.78	1.25	0.78	1.02	0.77	0.00	1.02	0.77
20		0.67	0.04	0.72	0.81	12	0.56	1.11	2.95	1.91	0.97	0.92	0.66	2.95	1.91
21		0.74	0.63	0.63	0.44	11	0.26	1.21	0.26	1.21	0.26	1.21	0.00	0.00	0.00
22		1.50	0.88	1.24	0.85	18	3.42	5.02	3.42	5.02	3.16	4.49	0.00	3.16	4.49
23		0.76	0.67	0.57	0.13	12	1.34	7.92	3.54	4.02	1.60	6.27	1.34	3.54	4.02
24		1.33	0.49	0.94	2.74	11	1.13	10.68	1.13	10.68	1.13	10.68	0.00	0.00	0.00
26	— 6" MESH SIZE NET RESTRICTION —	0.56	0.13	0.98	0.77	18	0.35	8.20	0.35	8.20	0.40	7.55	0.00	0.40	7.55
27		0.15	0.01	0.40	0.27	12	0.13	1.22	0.83	3.15	0.16	1.35	0.15	0.83	3.15
28		0.18	0.07	0.78	0.32	11	0.06	0.92	0.06	0.92	0.06	0.92	0.00	0.00	0.00
29		0.75	0.35	0.70	0.38	18	0.29	20.46	0.29	20.46	0.20	16.11	0.00	0.20	16.11
30		0.63	0.51	0.41	0.40	12	0.20	10.68	0.44	11.35	0.22	11.09	0.20	0.44	11.35
31		0.49	0.75	0.50	1.09	11	0.04	2.65	0.04	2.65	0.04	2.65	0.00	0.00	0.00
33		0.89	3.64	0.58	0.29	18	0.15	3.74	0.15	3.74	0.16	4.43	0.00	0.16	4.43
34		0.25	3.56	0.25	0.26	12	0.24	9.74	0.23	8.11	0.20	9.79	0.23	0.23	8.11
35		0.40	5.58	0.22	0.29	11	0.20	3.56	0.20	3.56	0.20	3.56	0.00	0.00	0.00
36		0.46	5.96	0.20	0.48	18	0.11	8.97	0.11	8.97	0.09	5.47	0.00	0.09	5.47
37		0.08	2.39	0.08	0.24	12	0.18	11.93	0.13	3.36	0.14	8.90	0.17	0.13	3.36
38		0.22	1.50	0.10	0.17	11	0.13	6.88	0.13	6.88	0.13	6.88	0.00	0.00	0.00
40		0.72	9.24	0.17	0.36	18	0.05	4.18	0.05	4.18	0.05	4.08	0.00	0.05	4.08
41		0.08	2.07	0.03	0.15	12	0.08	8.19	0.14	4.46	0.07	7.01	0.08	0.14	4.46
43		0.18	4.01	0.16	0.74	18	0.03	4.10	0.03	4.10	0.04	3.66	0.00	0.04	3.66
44		0.00	0.21	0.04	0.30	12	0.03	4.03	0.07	4.95	0.03	3.35	0.03	0.07	4.95
45		0.04	0.44	0.03	0.08	11	0.17	4.58	0.17	4.58	2.17	4.58	0.00	0.00	0.00
47		0.03	0.46	0.01	0.18	18	0.04	3.43	0.04	3.43	0.03	2.33	0.00	0.03	2.33
48		0.00	0.22	0.01	0.25	12	0.01	3.13	0.06	4.43	0.01	2.75	0.01	0.06	4.43

[1] Variable definitions:

BEK Big Eddy daily chinook CPUE.
BECM Big Eddy daily summer chum CPUE.
MMK Middle Mouth daily chinook CPUE.
MMCM Middle Mouth daily summer chum CPUE.
STAT Statistical area code (18 upper district, 12 near net sites, 11 Black River).
SBEK Statistical area 11, 12, or 18 commercial chinook CPUE.
SBECM Statistical area 11, 12, or 18 commercial summer chum CPUE.
SMMK Statistical area (15+16) or 18 commercial chinook CPUE.
SMMCM Statistical area (15+16) or 18 commercial summer chum CPUE.
CBEK Combined statistical areas 11, or (12+13+14) or (17+18) commercial chinook CPUE.
CBECM Combined statistical areas 11, or (12+13+14) or (17+18) commercial summer chum CPUE.
CBEKT Combined statistical areas (12+13) commercial chinook CPUE.
CMMK Combined statistical areas (15+16) or (17+18) commercial chinook CPUE.
CMMCM Combined statistical areas (15+16) or (17+18) commercial summer chum CPUE.

Appendix Table G-2. 1981 Lower Yukon daily fall chum CPUE and corresponding commercial statistical area CPUE used in correlation analysis.

REC	BECM	MMCM	STAT	SBECM	5MMCM	6MMCM	CBECM	CMMCM
2.00	0.10	0.50	18.00	2.42	2.42	2.42	2.40	2.40
3.00	0.54	0.86	12.00	7.01	3.91	2.65	6.81	3.49
6.00	1.25	0.78	18.00	2.34	2.34	2.34	1.80	1.80
7.00	0.21	0.13	12.00	1.03	0.89	0.69	1.05	0.80
9.00	0.13	0.26	18.00	0.29	0.29	0.29	0.85	0.85
10.00	0.08	0.26	12.00	0.64	0.81	0.00	0.62	0.81
13.00	5.29	2.35	18.00	9.00	9.00	9.00	10.11	10.11
14.00	2.29	1.90	12.00	5.74	7.25	2.16	5.69	5.90
16.00	2.50	1.67	18.00	8.02	8.02	8.02	5.77	5.77
17.00	0.67	0.57	12.00	2.02	2.09	0.65	2.04	1.87
30.00	2.02	1.19	18.00	9.98	9.98	9.98	8.13	8.13
31.00	1.10	1.08	12.00	8.84	5.24	0.00	7.83	5.24
34.00	0.40	0.33	18.00	2.69	2.69	2.69	1.52	1.52
35.00	0.21	0.35	12.00	0.77	0.84	0.00	0.79	0.84

[1] Variable definitions:

BECM Big Eddy daily fall chum CPUE.
MMCM Middle Mouth daily fall chum CPUE.
STAT Statistical area code 18 = upper district; 12 = lower district (near test nets).
SBECM Statistical area 12 or 18 commercial fall chum CPUE.
5MMCM Statistical area 15 or 18 commercial fall chum CPUE.
6MMCM Statistical area 16 or 18 commercial fall chum CPUE.
CBECM Combined statistical areas (12+13) or (17+18) commercial fall chum CPUE.
CMMCM Combined statistical areas (15+16) or (17+18) commercial fall chum CPUE.

Appendix H. Test fishery catches of miscellaneous salmon and other fish, 1981.

Table		Page
H-1	Miscellaneous salmon and freshwater fish catches at the Big Eddy test fishing project in 1981, from 28 May to 15 July.	87
H-2	Miscellaneous salmon and freshwater fish catches at the Big Eddy test fishing project in 1981, from 16 July to 31 August.	88
H-3	Miscellaneous salmon and freshwater fish catches at the Middle Mouth test fishing project in 1981, from 29 May to 14 July.	89
H-4	Miscellaneous salmon and freshwater fish catches at the Middle Mouth test fishing project in 1981, from 15 July to 10 August.	90

Appendix Table H-1. Miscellaneous salmon and freshwater fish catches at the Big Eddy test fishing project in 1981, from 28 May to 15 July.

Date	Pink salmon	Sockeye salmon	Arctic char	Sheefish	White fish	Burbot	Pike
5/28				4	2	1	
5/29				6	5		
5/30				5	1	1	
5/31				4	2		
6/01				2	1		
6/02				1		2	
6/03				1			
6/04				1			
6/05							
6/06							
6/07				1	1		
6/08							
6/09					1		
6/10							
6/11							
6/12							
6/13							
6/14				1			
6/15							
6/16							
6/17							
6/18				1	1		
6/19							
6/20							
6/21	1			1			
6/22	1						
6/23							
6/24							
6/25					2		
6/26		1	1	4	1		
6/27	2						
6/28	2	2		1			
6/29	3						
6/30				1			
7/01	7	1	3	2			
7/02	4			1			
7/03	1		1				
7/04	21		1		3		
7/05	15						
7/06	11	5	6				
7/07	30		8				
7/08	44		3	1			
7/09	61		5		1		
7/10	31		4				
7/11	68		10	2		1	
7/12	152	1	2	2	1		
7/13	94		1		5		
7/14	33		3				
7/15	49	1	4				
totals	630	11	52	42	27	5	0

Appendix Table H-2. Miscellaneous salmon and freshwater fish catches at the Big Eddy test fishing project in 1981, from 16 July to 31 August.

Date	Pink salmon	Sockeye salmon	Arctic char	Sheefish	White fish	Burbot	Pike
7/16	21						
7/17	26						
7/18	50						
7/19	20						
7/20	49	2					
7/21	14		1				
7/22	41						
7/23	38	1	1		1		
7/24	45	1					
7/25	47		1				
7/26	5	1					
7/27	4	2					
7/28	2			1			
7/29	6	1					
7/30	5	3					
7/31	1						
8/01	3	1					
8/02	10	2	1				
8/03	16	6					
8/04	14						
8/05	13	3					
8/06	12	3					
8/07	8	12					
8/08	3	2			1		
8/09	7	3					
8/10	2	7					
8/11	5						
8/12	2	4					
8/13	1	3	1				
8/14							
8/15		3					
8/16	1	2					
8/17	1	2					
8/18	1						
8/19	2	1					
8/20	1	3					
8/21		1					
8/22							
8/23							
8/24							
8/25							
8/26		2					
8/27							
8/28	1	2					
8/29							
8/30	3	2				1	
8/31		3				1	
totals	480	78	5	1	2	2	0

Appendix Table H-3. Miscellaneous salmon and freshwater fish catches at the Middle Mouth test fishing project in 1981, from 29 May to 14 July.

Date	Pink salmon	Sockeye salmon	Arctic char	Sheefish	White fish	Burbot	Pike
5/29				7			
5/30				18			1
5/31				25		1	
6/01				23	1		1
6/02				31			
6/03				11	1		
6/04				7	1		
6/05				10			
6/06				7			
6/07				5			
6/08				4	1		
6/09				2			1
6/10				1			
6/11				1			
6/12							
6/13		1					
6/14		1		2			
6/15				1			
6/16							
6/17				3			
6/18		1					
6/19							
6/20		1					
6/21	1	2					
6/22							
6/23				1			1
6/24				2			
6/25							1
6/26							
6/27	1	1		1			
6/28				1			
6/29		1		1			
6/30	1			2			
7/01	1	1		2			
7/02		2		1			
7/03	1				1		
7/04	1	1		1			
7/05	3	1					
7/06	9	2					
7/07	6						
7/08	7	1	1				
7/09	2						
7/10	1						
7/11	8	1					
7/12	9						
7/13	6						
7/14	2						
totals	59	17	1	170	5	1	5

Appendix Table H-4. Miscellaneous salmon and freshwater fish catches at the Middle Mouth test fishing project in 1981, from 15 July to 10 August.

Date	Pink salmon	Sockeye salmon	Arctic char	Sheefish	White fish	Burbot	Pike
7/15	6	1	1		1		
7/16	15						
7/17	5						
7/18	12						
7/19	5				1		
7/20	9	1					
7/21	2						
7/22	7						
7/23	10						
7/24	4						
7/25	4	2					
7/26		1					
7/27		1					
7/28							
7/29							
7/30	2						
7/31	1				1		
8/01		1		1			
8/02	2		1				
8/03	2				1		
8/04	1						
8/05	2	1					
8/06	1						
8/07		2					
8/08	1	1					
8/09	1						
8/10							
8/11		1					
8/12	2						
8/13							
8/14							
8/15		3					
8/16		1					
8/17		1					
8/18							
8/19		1			1		
8/20				1			
8/21		3					
8/22		3					
8/23		1					
8/24				1		1	
8/25							
8/26							
8/27							
8/28					1		
8/29		3					
8/30	1						
totals	95	28	2	3	6	1	0

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