

COOPERATIVE SALMON DRIFT GILLNET TEST FISHING  
IN THE LOWER YUKON RIVER, 2003



By  
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and  
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## ABSTRACT

The Lower Yukon drift gillnet test fish program is designed to assess the run timing and relative abundance of Chinook, chum, and coho salmon. The feasibility of using drift gillnets to obtain pertinent information in season that fisheries managers can use for assessing relative abundance and run timing of salmon returning to the Yukon River drainage, is tested. The ability of the summer season Middle Mouth drift gillnet test fishery to correlate with trends in other Lower Yukon test fisheries or the Pilot Station sonar passage estimates were inconclusive. Drift fishing at incorrect times in relation to high tides may have caused the failure of Middle Mouth to correspond with other assessment projects in the Lower Yukon River during the summer season. Fall operations for drift gillnet test fishing in the Lower Yukon River were similar to trends observed in the sonar passage estimates obtained at Pilot Station. Age, sex and length measurements were taken; run timing recorded and catch per unit effort calculated for each species.

KEY WORDS: Yukon River, Chinook, chum and coho salmon, gillnet test fishery, run assessment, catch per unit effort.

## INTRODUCTION

The Lower Yukon drift gillnet test fish program is designed to assess the run timing and relative abundance of Chinook *Oncorhynchus tshawytscha*, chum *O. keta*, and coho *O. kisutch* salmon. The goal of this project is to determine the feasibility of using drift gillnets to obtain pertinent information in season that fisheries managers can use for assessing relative abundance and run timing of salmon returning to the Yukon River drainage. These data may be used in conjunction with other information to help ensure that sufficient numbers of salmon pass the Lower Yukon to provide for escapement into Alaskan and Canadian tributaries, and to provide for subsistence uses.

The total number of Chinook and chum salmon returning to the Yukon River has been depressed in recent years. These low numbers prompted the Alaska Department of Fish and Game (ADF&G) to expand an existing drift gillnet test fishery located at Big Eddy to include drift locations at Middle Mouth with the assistance of the Emmonak Tribal Council. The new program includes two drift gillnet test fishing locations at the Middle Mouth of the Yukon River delta. With the addition of the Middle Mouth drift sites to the Big Eddy drift sites, assessment is possible for salmon transiting the North, Middle, and South Mouths of the Yukon River Delta downstream from major commercial and subsistence fisheries.

The information obtained by the Middle Mouth drift gillnet test fishery may supplement the existing summer season Chinook salmon set gillnet test fisheries in the Lower Yukon. Beginning in 2001, the chum (summer and fall) set gillnet nets were replaced by drift gillnet nets. In recent years, managers were uncertain if the set gillnets were providing representative samples of the chum (summer and fall) salmon runs at the Middle Mouth and Big Eddy test fishing sites. Deviation of the drift gillnet data from the set gillnet data may be explained by changes in riverbanks, channels, and sand bar migrations.

## OBJECTIVES

The objectives for the Lower Yukon drift gillnet test fisheries are to:

- 1.) Collect relative abundance and run timing information on Chinook, chum (summer and fall), and coho salmon on a daily basis.
- 2.) Maintain an up-to-date log of catches and catch per unit effort (CPUE) index by species.
- 3.) Sample and record age, sex, and size data used in scale pattern analysis.

## METHODS

Two locations were used in 2003 for the Lower Yukon drift gillnet test fish project. The first test fishing location, Big Eddy, was located in the main channel of the South Mouth of the Yukon River delta upstream and southeast from the village of Emmonak (Figure 1). One drift station was located on each side of the north and south shore. Station 1 at Big Eddy was located directly south of the confluence of the Kwiguk Mouth and South Mouth near the southern shore. On June 18, Station 1 was moved downstream approximately 1 mile (800 m), because CPUE's were heavily skewed towards Station 2. Station 2 was located directly east of Station 1 on the opposite shore approximately 0.25 mile (200 m) downstream and southeast from the starting point of Station 1. The Big Eddy drift gillnet fishing locations were primarily chosen to assess salmon transiting via the South Mouth of the Yukon River delta. The locations were secondarily chosen because of their proximity to the village of Emmonak.

The second test fishing location, Middle Mouth, was located upstream and south from the confluence of the Kawanak and Kwikpak Passes to assess numbers of salmon entering the North and Middle Mouths of the Yukon River delta (Figure 1). Two drift gillnet stations were utilized in Kwikpak Pass near Hamilton Slough, one on either side of the outlet at approximately river mile 24 (39 km). Station 1 was located on the west side of the river and Station 2 was located on the opposite bank. The Station 1 drift gillnet starting point was at a place named "Hootch's Camp" approximately 3 miles from the Middle Mouth camp by skiff. Station 2 was located on the East bank approximately 0.25 to 0.50 mile (400-800 m) downstream and north from Hootch's Camp. During the summer season both Chinook and summer chum salmon CPUE's were skewed heavily toward Station 1. On July 16, Station 2 was relocated upstream about .25 mile and closer to shore.

Different sized mesh gillnets were used in the summer and fall fishing seasons. In the summer season, two drift gillnets with different mesh sizes were used from 28 May to 15 July at Big Eddy and from 31 May to 15 July at Middle Mouth. A single mesh size drift gillnet was used in the fall season from 16 July to 28 August, when the test fisheries were terminated for the season. The three different types of gillnets were of similar construction, 50 fathoms (91.4 m) in length with a cork marking 25 fathoms (45.7 m). The summer season used gillnets designed to capture Chinook and summer chum salmon. The gillnets for Chinook salmon had 8.25-inch (21.0 cm) mesh and were 35 meshes in depth, and the summer chum salmon gillnets were composed of 5.5-inch (14 cm) mesh and was 45 meshes in depth. The gillnets used for catching fall chum and coho salmon were constructed with 6.0-inch (15.2 cm) mesh and were 45 meshes in depth.

All gillnets were fished by drifting from 22 foot (6.7 m) open aluminum skiffs with one end of the net attached to the skiff and the other attached to a buoy. In times of increased salmon abundance, inclement weather, or excess debris the net would be shortened to the 25 fathom cork mark to make the net more manageable. When 25 fathoms of the gillnet was fished, the information was recorded and compensated for in the CPUE calculations. The drift gillnets were fished twice daily during both tidal surges at the Middle Mouth and Big Eddy locations. Depth profiles at each of the drift stations were made at various times during the season. To take depth profiles, technicians checked depths during the setting and the retrieval of the drift net.

Times used for determining tides were based on the Nushagak tide table. In South Mouth (Kwikluak Pass) 2 hours and 30 minutes are added to the Nushagak high tide to correspond with the high tide at the mouth. In south mouth 4 hours and 30 minutes are added for travel time for the mouth so, timing of the tidal surge at Big Eddy was determined to occur 7 hours after the published high tide.

In Middle Mouth (Kawanak Pass), 3 hours and 9 minutes are added to the Nushagak high tide to correspond with the high tide at the mouth. After extensive experimental drifts, the Middle Mouth travel time was determined to be 3 hours and 30 minutes after the adjusted high tide at the mouth, so drifting at Middle Mouth occurs 6 hours and 39 minutes after the posted high tide.

The deployment, fishing, and retrieval of the drift gillnets were recorded for each sampling event. CPUE was calculated using fish per 100 fathom-hours:

$$CPUE = [((100 \text{ fathom} * 60 \text{ minutes}) * (n))/(L*T)]$$

where:

$n$ = number of fish caught,  
 $L$ = length of net in fathoms  
 $T$ = the time the net fished

The time the net fished was calculated using:

$$T = ([(\text{set time} + \text{retrieval time})/2] + \text{soak time})$$

(Molyneaux 1999). The amount of time the gillnet was soaked varied. An independent CPUE calculation was made for each drift fished. This value was summed with CPUE calculations from the same day and gear type and then averaged to obtain a CPUE for the day and gear type:

$$\text{Daily CPUE} = ((\sum CPUE)/n)$$

where:

$n$ =number of sets for the given day and gear type.

The fish captured were counted and released unharmed, unless injured by the netting activity. Fish injured by gillnets were distributed locally for subsistence purposes.

Retained salmon were sampled for age, sex and length (ASL) information. All salmon lengths were measured as mid-eye to fork-of-tail length and rounded off to the nearest five millimeters. Three scales were taken from each Chinook and coho salmon sampled. One scale was collected from each summer and fall chum salmon sampled. The sex of each salmon was verified by visual examination of the gonads through a small ventral incision.

### *Summer Season*

Big Eddy and Middle Mouth locations were fished twice daily using drift gillnets equipped with 8.25 (Chinook) and 5.5 (chum) inch stretched mesh as previously described. Drift gillnet fishing at the Big Eddy location started 28 May and continued through 15 July. Middle Mouth drift gillnet fishing started 31 May and continued through 15 July. Both Big Eddy and Middle Mouth locations were fished using the same methods. Station 1 was fished first using the Chinook salmon gillnet followed by the summer chum salmon gillnet, and then Station 2 was drifted using the Chinook gillnet followed by the summer chum salmon gillnet. The objective was for the net to be retrieved after an estimated 30 fish had been captured, but before the net had been fished twenty minutes. The species, number caught, number retained, mesh size, station, and fishing times were recorded and injured fish were retained for local subsistence use and ASL collection.

### *Fall Season*

From 16 July until the end of the Lower Yukon drift gillnet test fishery on 28 August, 6.0-inch mesh gillnets were utilized. Similar to the summer season, the objective was to retrieve the drift gillnets after 20 minutes of fishing and an estimated 30 fish had been caught. These nets were fished once per station twice daily at Big Eddy and Middle Mouth starting with Station 1, followed by Station 2. The species, number caught, number retained, mesh size, station, length of gillnet used, and fishing times were recorded and injured fish were retained for local subsistence use and ASL collection. During the fall season crew members installed lights on the skiffs for night fishing to illuminate the net and skiff deck. Strobe lights were attached to buoys and hand-held spotlights were also used to illuminate the nets during night fishing operations.

## **RESULTS**

### *Summer Season*

#### **Chinook Salmon**

In 2003 the Lower Yukon drift gillnet test fishing project completed its third year of operation in both Big Eddy and Middle Mouth. In 2003 an estimated 257,636 Chinook salmon were counted at Pilot Station, this count is much higher than 112,550 in 2002 and 87,496 in 2001. Examination of each of the last three years of drift gillnet data, showed a higher Chinook salmon CPUE in 2001, 620.81 compared to 319.13 in 2002 and 407.97 in 2003 (Table 12).

The mean drift time at the Big Eddy location was 17.4 minutes per drift and a total drift time of 69.2 minutes per day using 8.25-inch mesh (Appendix A1). A total of 307 Chinook salmon were captured by the 8.25-inch gillnet at Big Eddy with a corresponding cumulative CPUE of 499.19

(Table 1). Of the 203 Chinook salmon sampled for ASL data, approximately 48% were male. Age-1.4 Chinook salmon dominated the sample, comprising 62.1% of the total fish captured. Chinook salmon ages-1.3 and -1.5 in Big Eddy made up 30.5% and 6.9% of the sample respectively. Chinook salmon ages-1.2, -2.4, and -2.3 made up less than 1% of the total sample (Table 2). Mean length for male Chinook was 595.0 mm for age-1.2 ( $n=1$ ), 755.0 mm for age-1.3 ( $n=53$ ), 822.0 mm for age-1.4 ( $n=39$ ), and 883.0 mm for age-1.5 ( $n=4$ ). Female Chinook salmon had mean lengths of 791.0 mm for age-1.3 ( $n=9$ ), 871.0 mm for age-1.4 ( $n=87$ ), and 889.0 mm for age-1.5 ( $n=10$ ) respectively (Table 2). The midpoint of the Chinook salmon run at Big Eddy occurred 17 June (Table 1).

The mean drift time at Middle Mouth was 17.0 minutes per drift and a total of 68.2 minutes per day using 8.25-inch mesh (Appendix A1). A total of 200 Chinook salmon were captured at the Middle Mouth location with a corresponding cumulative CPUE of 308.17 (Table 1). Of the 103 Chinook salmon sampled for ASL data, approximately 46% were male. Age-1.4 dominated the Chinook salmon sample making up 64.1% of the total, followed by age-1.3, which comprised 27.2% of the total. Chinook salmon aged -1.5 was a minor occurrence at 8.7%. Mean lengths for male Chinook were 772.0 mm for age-1.3 ( $n=19$ ), 841.0 mm for age-1.4 ( $n=26$ ), and 948.0 mm for age-1.5 ( $n=2$ ) respectively. Female Chinook salmon mean lengths were 789.0 mm for age-1.3 ( $n=9$ ), 865.0 mm for age-1.4 ( $n=40$ ), and 874.0 mm for age-1.5 ( $n=7$ ) respectively (Table 2). The midpoint of the Chinook salmon run at the Middle Mouth test fishery location was 17 June (Table 1).

A total of 507 Chinook salmon were caught at the Big Eddy and Middle Mouth drift gillnet test fishery locations, with a corresponding cumulative CPUE of 407.97. The combined midpoint of the Chinook salmon run at the Big Eddy and Middle Mouth locations occurred on 18 June (Table 1). In 2003, 47.1% of the total Chinook salmon sampled were males (Table 2).

ADF&G worked in cooperation with the U. S. Fish and Wildlife Service (USFWS) to distribute salmon retained by the drift gillnet test fisheries to the residents in the local communities of Emmonak, Alakanuk, and Kotlik for subsistence use. Of the 736 Chinook salmon captured in all mesh sizes combined, 319 were released unharmed, 405 were given away for subsistence uses or sold, and 12 Chinook salmon were discarded because of no recipients or poor fish condition (Appendix A.2). These numbers reflect Chinook salmon caught in both summer chum and Chinook salmon gillnet gear (all related mesh sizes), therefore the 736 Chinook salmon released, sold, discarded or given to residents is larger than the number of fish caught in the Chinook salmon drift gillnet test fisheries alone.

### **Summer Chum Salmon**

The Pilot Station sonar estimates for summer chum salmon passage for 2003 was 1,235,367 and in 2002, was 1,158,475. The 2002 and 2003 summer chum passage estimates for Pilot Station sonar has increased from an estimate of 435,224 in 2001. The Lower Yukon summer chum drift gillnet test fishery also increased from a combined CPUE of 1,802.42 in 2001 to 2,489.55 in 2002 (Table 3), but then decreased in 2003 having a combined CPUE of 1677.63.

The mean drift time in the Big Eddy location was 17.2 minutes per drift and a total of 68.8 minutes per day using 5.5-inch mesh gillnets for summer chum salmon (Appendix A1). A total of 1,479 summer chum salmon were captured at Big Eddy with a corresponding cumulative CPUE of 2642.95 (Table 3). Females comprised 53.7% of the 566 summer chum salmon sampled for ASL data. Age-0.4 and -0.3 summer chum salmon predominated, making up 21.2% and 76.7% of the total sample, respectively. Summer chum salmon age-0.5 and -0.2 made up the remaining 1.9% and 0.2% of the sample. Mean lengths for male summer chum salmon captured at Big Eddy were 560.0 mm for age-0.2 ( $n=1$ ), 569.0 mm for age-0.3 ( $n=204$ ), 591.0 mm for age-0.4 ( $n=53$ ), and 624.0 mm for age -0.5 ( $n=4$ ) respectively. Mean lengths for female summer chum salmon were 559.0 mm for age-0.3 ( $n=230$ ), 576.0 mm for age-0.4 ( $n=67$ ), and 594.0 mm for age-0.5 ( $n=7$ ) respectively (Table 4). The midpoint for the of summer chum salmon run at the Big Eddy drift location was 21 June (Table 3).

The mean drift time at Middle Mouth was 16.9 minutes per drift and a total of 68.3 minutes per day for summer chum salmon using 5.5-inch mesh gillnet (Appendix A1). There were 471 total summer chum captured with a corresponding cumulative CPUE of 709.38 (Table 3). Females comprised 55.9% of the 256 summer chum salmon sampled for ASL data. Age-0.4 summer chum salmon made up 13.3% of the total sample and age-0.3 made up 83.2% of the total. Age-0.5 and -0.2 summer chum salmon comprised 2.7% and 0.8% of the total sample, respectively. Mean lengths for male summer chum salmon were 573.0 mm for age-0.3 ( $n=94$ ), 604.0 mm for age -0.4 ( $n=16$ ), and 637.0 mm -0.5 ( $n=3$ ) respectively. Female summer chum salmon had mean lengths of 553.0 mm for age-0.2 ( $n=2$ ), 562.0 mm for age-0.3 ( $n=119$ ), 581.0 mm for age-0.4 ( $n=18$ ), and 583.0 for age-0.5 ( $n=4$ ) (Table 4). The midpoint of the summer chum salmon run at the Middle Mouth location was 3 July (Table 3).

A combined total of 1950 summer chum salmon were caught at the Big Eddy and Middle Mouth locations with a corresponding cumulative CPUE of 1677.63 (Table 3), with a combined midpoint occurring on 24 June (Table 3). Approximately 225 summer chum salmon were released unharmed. Local residents utilized 1801 summer chum salmon and 18 were discarded (Appendix A.2). These numbers reflect summer chum salmon caught in both summer chum and Chinook salmon gillnet gear (all related mesh sizes), therefore the 2074 fish released, discarded or given to residents is larger than the number of fish caught in the summer chum salmon drift gillnet test fisheries alone. The percentage of released chum (summer and fall) and coho salmon is much lower than that of Chinook salmon (Appendix A.2) because chum (summer and fall) and coho salmon tend to run in larger pulses than Chinook salmon. During a large pulse, over 100 fish may be caught in a single drift. When these large pulses occur, the net is retrieved as quickly as possible to reduce harvest, and few fish end up being released.

## *Fall Season*

### **Fall Chum Salmon**

In 2003, both the Lower Yukon test fisheries and the Pilot Station sonar indicated that the fall chum salmon run was evenly distributed and fairly strong. Significant fall chum salmon catches

were seen in Middle Mouth, this didn't correlate with the summer chum salmon trend which saw much lower drift net CPUE's in Middle Mouth when compared to Big Eddy (Figure 12).

The mean drift time in the Big Eddy location was 17.9 minutes per set and a total of 71.7 minutes per day using 6.0-inch mesh gillnets (Appendix A1). The Big Eddy drift gillnet test fishery captured 734 fall chum salmon with a corresponding cumulative CPUE of 1,371.06 (Table 5). Females comprised 60.2% of the 294 fall chum salmon sampled for ASL data. Age-0.3 fall chum salmon made up 91.8% of the total sampled and age-0.4 made up 6.5%. Age -0.2 fall chum salmon comprised .7% total sampled, respectively. Mean lengths for male fall chum salmon were 598 mm for age-0.2 ( $n=2$ ), 607 mm for age-0.3 ( $n=106$ ), and 632.0 mm for age-0.4 ( $n=9$ ). Female fall chum salmon had mean lengths of 555.0 mm for age-0.2 ( $n=1$ ), 595.0 mm for age-0.3 ( $n=164$ ), 615.0 mm for age-0.4 ( $n=10$ ), and 630.0 mm for age-0.5 ( $n=2$ ) (Table 6). The midpoint of the fall chum salmon run at the Big Eddy location was 5 August (Table 5).

Middle Mouth drift gillnet test fishing had a mean fishing time of 18.7 minutes per set and 75.0 minutes per day using 6.0-inch mesh gillnet (Appendix A1). There were 702 total fall chum captured with a corresponding cumulative CPUE of 1127.23 (Table 5). Females comprised 55.5% of the 391 fall chum salmon sampled for ASL data. Age-0.3 fall chum salmon made up 88.7% of the total sampled and age-0.4 made up 10.5%. Age-0.5 and -0.2 fall chum salmon each comprised .3%. Mean lengths for male fall chum salmon were 560.0 mm for age-0.2 ( $n=1$ ), 609.0 mm for age-0.3 ( $n=155$ ), 618.0 mm for age-0.4 ( $n=17$ ), and 618 mm for age-0.5 ( $n=1$ ). Female fall chum salmon had mean lengths of 565.0 mm for age-0.2 ( $n=1$ ), 597.0 mm for age-0.3 ( $n=192$ ), and 605.0 mm for age 0.4 ( $n=24$ ) (Table 6). The midpoint of the fall chum salmon run at the Middle Mouth location was 4 August (Table 5).

A combined total of 1,436 fall chum salmon were captured at the Big Eddy and Middle Mouth drift gillnet test fishery locations with a corresponding cumulative CPUE of 1249.15 (Table 5). 189 fall chum salmon were released unharmed, none were discarded, and 1,247 were distributed to local residents (Appendix A.2).

### **Coho Salmon**

The Lower Yukon coho drift gillnet test fishery over the last three years has tracked well with the Pilot Station passage estimates. In 2003 the Lower Yukon coho drift gillnet fishery had a CPUE of 702.00 and Pilot Station passage estimate of 276,961 fish. In 2002 there was a lower coho salmon drift gillnet CPUE of 382.16 (Table 7) and a lower passage estimate of 135,737 fish.

The mean drift time in the Big Eddy location was 17.9 minutes per set and a total of 71.7 minutes per day using 6.0-inch mesh gillnet (Appendix A1). There were 362 coho salmon captured with a corresponding cumulative CPUE of 684.07 (Table 7). Females comprised approximately 45.2% of the 217 coho salmon sampled for ASL data. Four age classes comprised the coho salmon ASL data with 74.2% of the sample being age-2.1, age-1.1 represented 22.1% followed by age-3.1 and age-2.2 with 2.8% and .9% respectively. Mean lengths for male coho salmon were 591.0 mm for age-1.1 ( $n=29$ ), 588.0 mm for age-2.1 ( $n=86$ ), 560.0 mm for age-2.2 ( $n=1$ ), and 598.0 mm for age-3.1 ( $n=3$ ). Female coho salmon had mean lengths of 594.0 mm for

age-1.1 ( $n=19$ ), 590.0 mm for age-2.1 ( $n=75$ ), 555 mm for age-2.2, and 598.0 mm for age-3.1 ( $n=3$ ) (Table 8). The midpoint of the coho salmon run at the Big Eddy drift gillnet location was 15 August (Table 7).

Middle Mouth drift gillnet test fishing had a mean fishing time of 18.7 minutes per set and 75.0 minutes per day using 6.0-inch mesh gillnet (Appendix A1). There were 353 coho salmon captured with a corresponding cumulative CPUE of 738.97 (Table 7). Female coho salmon made up approximately 52.8% of the 214 coho salmon sampled for ASL data. Most coho salmon were age-2.1 (72.4%), followed by age-1.1 (24.3%), -3.1 (2.8%) and -2.2 (0.5%). Male coho salmon had mean length measurements of 584.0 mm for age-1.1 ( $n=20$ ), 584.0 mm for age-2.1 ( $n=78$ ), and 607.0 mm for age-3.1 ( $n=3$ ). Female coho salmon had mean lengths of 589.0 mm for age-1.1 ( $n=32$ ), 593.0 mm for age-2.1 ( $n=77$ ), 600 mm for age-2.2 ( $n=1$ ), and 588.0 mm for age-3.1 ( $n=3$ ) (Table 8). The midpoint of the coho salmon run at the Middle Mouth drift gillnet location was 15 August (Table 7).

A combined total of 715 coho salmon were captured in the Big Eddy and Middle Mouth drift gillnet test fisheries, which resulted in a corresponding cumulative CPUE of 711.52 (Table 7). 80 coho salmon were released unharmed, 0 were discarded, and 635 were distributed to local residents (Appendix A.2).

## **DISCUSSION**

### ***Summer Season***

In order to catch fish on each incoming high tide, the Middle Mouth drift gillnet test fishery started the season by fishing 1.5 hours prior to the drift gillnet test fishery conducted at Big Eddy, which was seven hours after the posted high tide at the Yukon River mouth as recorded in the Nushagak tide table. This correction was originally made late in the 2001 season, after lower catch rates were observed at Middle Mouth compared to Big Eddy early in the season. In 2003 as in 2001 the catch rates improved significantly during the fall season in Middle Mouth, so the correction was considered reliable. These improved catch rates indicate that salmon pulses enter south mouth, before middle and north mouth.

### **Chinook Salmon**

The Middle Mouth Chinook salmon drift gillnet test fishery correlated with the Big Eddy Chinook salmon drift gillnet test fishery closer in 2003 than in 2001 or 2002 (Figures 2, 3 and 4). However, Chinook catch rates in the Middle Mouth Chinook salmon drift gillnet test fishery were still lower, when compared to the Big Eddy and Middle Mouth set gillnet catches and the Big Eddy drift catches in 2003. The Pilot Station sonar project reached the midpoint of the Chinook salmon run on 16 June (Table 9). The Chinook salmon run midpoint appeared to occur at the Big Eddy test fishery location on 17 June, this was the same Middle Mouth midpoint of 17

June (Table 1). The Lower Yukon drift project should reach the midpoint two to three days before the Pilot Station midpoint because of fish travel time between the test fish sites and Pilot Station. When the catch data from the Middle Mouth and Big Eddy drift gillnet test fishing locations were combined, the midpoint of Chinook salmon run in the Lower Yukon River was determined to be 17 June, one day after the Pilot Station sonar midpoint estimate (Tables 1 and 9). The combined set gillnet test fisheries in the Lower Yukon River reached its midpoint on 15 June for Chinook salmon (Table 10), one day before the Pilot Station midpoint. The Lower Yukon set gillnet project's daily catch rates generally followed trends in passage estimates recorded for Chinook salmon at Pilot Station (Figures 3, 4, and 5).

In 2003, the Lower Yukon drift gillnet test fishery did not appear to be a useful tool for assessing relative abundance of Chinook salmon because of difficulties in initial coordination between the correct high tide and drift times, and the lack of comparable historical data. Hopefully with increased experience, drift gillnet test fishing in Middle Mouth and Big Eddy will result in data that are indicative of the relative Chinook salmon abundance. Currently only three years of Lower Yukon Chinook drift data are comparable (Table 12 and Figure 6).

Chinook salmon males captured at Big Eddy by drift gillnets were larger than Chinook males captured by the Big Eddy set gillnets. The difference between male Chinook salmon caught at Big Eddy averaged 30 mm for fish age-1.2 (jacks). Chinook salmon males ages-1.3 were 19 mm smaller in Big Eddy drift nets than in Big Eddy set nets. Chinook salmon males age-1.4 caught in the Big Eddy drift gillnets were 33 mm smaller than those caught in the Big Eddy set gillnets. Age-1.5 Chinook salmon caught in the Big Eddy drift gillnets were the same size as those caught in the Big Eddy set gillnets. Female Chinook salmon caught in the Big Eddy set gillnets also had a larger average length than those caught in the Big Eddy drift gillnets. Chinook salmon females caught in set gillnets were 35 mm larger for age-1.3 fish, 8 mm larger for age-1.4 fish, and 45 mm larger for age-1.5 fish. Similar to the trend in Big Eddy, Chinook salmon caught in the Middle Mouth set gillnets were larger, on average than those caught in the Middle Mouth drift gillnets. Male Chinook salmon caught in the Middle Mouth set gillnets were; 5 mm larger for age-1.3 fish, 25 mm larger for age-1.4 fish, but 20 mm smaller for age-1.5 fish. Female Chinook salmon caught in the Middle Mouth set gillnets were 4 mm larger for age-1.3 fish, 13 mm larger for age-1.4 fish, and 45 mm larger for age-1.5 fish. These differences may be explained by the different mesh sizes used between the set and drift gillnet projects (8.5-inch compared to 8.25-inch), efficiency differences between the set and drift gillnets, the small sample size from the drift compared to the set gillnet fishery (306 from the drift compared to 1,400 from set gillnet catches), or sampling error (Table 2). More data will need to be collected and analyzed before a definitive trend may be described.

### **Summer Chum Salmon**

From 2001-2003, no set gillnet test fishery targeted summer chum salmon at either the Big Eddy or the Middle Mouth sites, therefore the data collected from the summer chum salmon captured by the 5.5-inch drift gillnets in the Lower Yukon test fisheries can only be compared to the escapement estimate obtained from the Pilot Station sonar project and the 2001 and 2002 drift data (Table 13 and Figures 7-12). The midpoint of the summer chum run in the Middle Mouth drift gillnet test fishery lagged behind that of the Big Eddy location, occurring on 3 July

compared to 21 June (Table 3). The summer chum salmon midpoint occurred on 1 July at the Pilot Station sonar project (Table 9). The midpoint for Middle Mouth occurred 4 or 5 days later than would be anticipated from the Pilot Station estimates. The midpoint of the summer chum run at Big Eddy occurred six or seven days earlier than would be anticipated. When Middle Mouth and Big Eddy are combined, the midpoint of the summer chum salmon run occurred on 24 June (Table 3), which was seven days before the Pilot Station summer chum salmon midpoint. This deviation from the expected results is thought to be an artifact of sampling error caused by the higher catch rates in Big Eddy not representing the true timing of summer chum salmon entering the Yukon River. These higher catch rates could be caused by the mistiming of the tidal surge in the Middle Mouth area during the summer season.

Summer chum salmon captured in the Big Eddy 5.5-inch drift gillnet test fishery compared well in size to those captured in the Middle Mouth drift gillnet test fishery. Male summer chum salmon at the Big Eddy site were 4 mm smaller for age-0.3 fish, 13 mm larger for age-0.4 fish and 13 mm larger for age-0.5 fish. Female summer chum captured in Middle Mouth were 3 mm larger for age-0.3 fish, 5 mm smaller for age-0.4 fish, and 11 larger for age-0.5 fish (Table 4).

### *Fall Season*

#### **Fall Chum Salmon**

Timing of fall chum salmon caught in the 2003 Lower Yukon drift gillnet test fishery was later than 2001, but earlier than 2002 (Table 14 and Figure 13). Pulses of fall chum salmon observed in the combined CPUE for Big Eddy and Middle Mouth were also observed in the Pilot Station sonar passage estimates (Figures 14, 15, and 16). The midpoint for the fall chum salmon run occurred on 4 August at the Middle Mouth drift gillnet test fishery and on 5 August at Big Eddy. The combined results from Middle Mouth and Big Eddy show that the midpoint of the fall chum salmon run occurred on 4 August (Table 5). The midpoint of the fall chum salmon run occurred on 8 August at the Pilot Station sonar site (Table 11). The Middle Mouth midpoint was one or two days earlier than expected, when compared to the Pilot Station midpoint. The Big Eddy midpoint occurred on the expected date, when compared to the Pilot Station midpoint.

Fall chum salmon captured in the Big Eddy 6.0-inch drift gillnet test fishery compared well in size to those captured in the Middle Mouth drift gillnet test fishery. Male fall chum salmon at the Big Eddy site were 14 mm larger for age -0.4 fish and 2 mm smaller for age -0.3 fish. Female fall chum salmon captured in Middle Mouth were 10 mm larger for age -0.2 fish and 2 mm smaller for age -0.3 fish (Table 6). The proportion of age -0.4 fall chum salmon decreased dramatically in 2003 to 8.8% from a ten year average of 31.3%, it is unknown at this time what has caused this decrease, collecting a larger number of fall chum samples in future may be necessary.

Relative abundance information cannot be calculated from the data collected for fall chum salmon at the Big Eddy and Middle Mouth drift gillnet test fishery locations. However, the correlation of the 2001-2003 CPUE data calculated for the Lower Yukon drift gillnet test

fisheries and sonar passage estimates at Pilot Station indicate a relationship may be used in the future (Figures 17, 18 and Table 14).

### **Coho Salmon**

Timing of coho salmon caught in the 2003 Lower Yukon drift gillnet test fishery was later than 2001 and compared well to 2002 (Figure 19 and Table 15). The pulses of coho salmon caught in the Middle Mouth and Big Eddy drift gillnet test fisheries followed the trends observed in the Pilot Station sonar estimates (Figures 20, 21, and 22). The midpoint for the coho salmon run in the Middle Mouth and Big Eddy drift gillnet test fisheries occurred on 15 August. The combined results from both locations show that the midpoint of the coho salmon run occurred on 15 August (Table 7). The midpoint of the coho salmon run, as estimated by the Pilot Station sonar occurred on 19 August (Table 11). This is one day later than one would anticipate given transit time for salmon between the Lower Yukon test fisheries and the Pilot Station sonar. More data should be collected to verify if the difference in the coho salmon run midpoints at Middle Mouth and at Big Eddy were a trend or an anomaly.

Coho salmon captured in the Big Eddy 6.0-inch drift gillnet test fishery compared well in size to those captured in the Middle Mouth drift gillnet test fishery. Female coho salmon at the Big Eddy site were 3 mm smaller for age -2.1 fish and 10 mm larger for age -3.1 fish. Female coho salmon captured in Middle Mouth were 5 mm smaller for age -1.1 fish (Table 8).

## **RECOMMENDATIONS**

The Lower Yukon drift gillnet project completed two years of full operation in 2003, with summer and fall drifts being performed in both Middle Mouth and Big Eddy. Inconsistencies seen when comparing the catches of the drift gillnet project to other run assessment projects are most likely caused by the short duration (3 years) of the project. No determination had been made yet of how much effect the tidal surge has on fish entering the river. We recommend that the tidal surge timing in the Big Eddy and Middle Mouth locations be verified at the beginning of the 2004 season using experimental drifts.

## **LITERATURE CITED**

Molyneaux, D.B. 1999. Data summary for the Kuskokwim River salmon test fishery at Bethel, 1984-2000. Alaska Department of Fish and Game, Commercial Fisheries Division, Regional Information Report No. 3A99-33, Anchorage.

Table 1. Catch data for the Lower Yukon River chinook salmon drift gillnet test fisheries, 2003. <sup>a</sup>

Date	Middle Mouth Test Fish			Big Eddy Test Fish			Middle Mouth and Big Eddy Combined		
	Daily Catch	Daily CPUE	Cum. CPUE	Daily Catch	Daily CPUE	Cum. CPUE	Daily Catch	Daily CPUE	Cum. CPUE
28-May				2	5.7	5.72	2	5.72	5.72
29-May				2	2.86	8.58	2	2.86	8.58
30-May				0	0.00	8.58	0	0.00	8.58
31-May	4	12.3	12.3	2	3.24	11.82	6	7.78	16.36
1-Jun	0	0.0	12.3	4	5.21	17.03	4	2.61	18.96
2-Jun	0	0.0	12.3	6	8.83	25.86	6	4.42	23.38
3-Jun	0	0.0	12.3	0	0.00	25.86	0	0.00	23.38
4-Jun	2	3.0	15.3	1	1.54	27.40	3	2.27	25.65
5-Jun	4	5.82	21.13	0	0.00	27.40	4	2.91	28.56
6-Jun	8	11.60	32.73	6	9.16	36.56	14	10.38	38.94
7-Jun	4	6.15	38.88	0	0.00	36.56	4	3.08	42.01
8-Jun	2	3.16	42.04	3	4.28	40.84	5	3.72	45.73
9-Jun	1	1.62	43.66	1	1.46	42.30	2	1.54	47.27
10-Jun	1	1.30	44.96	2	3.24	45.54	3	2.27	49.54
11-Jun	7	10.30	55.26	51	62.66	108.20	58	36.48	86.02
12-Jun	36	44.72	99.98	17	38.60	146.80	53	41.66	127.68
13-Jun	26	26.33	126.31	1	3.08	149.88	27	14.71	142.39
14-Jun	5	7.69	134.00	28	39.69	189.57	33	23.69	166.08
15-Jun	5	13.64	147.64	29	43.72	233.29	34	28.68	194.76
16-Jun	0	0.00	147.64	3	9.00	242.29	3	4.50	199.26
17-Jun	2	5.33	152.97	26	41.49	283.78	28	23.41	222.67
18-Jun	3	4.36	157.33	2	3.16	286.94	5	3.76	226.43
19-Jun	4	5.82	163.15	9	13.82	300.76	13	9.82	236.25
20-Jun	6	7.92	171.07	23	33.79	334.55	29	20.86	257.10
21-Jun	3	9.40	180.47	4	12.03	346.58	7	10.72	267.82
22-Jun	25	34.18	214.65	12	16.54	363.12	37	25.36	293.18
23-Jun	5	7.14	221.79	8	12.95	376.07	13	10.05	303.22
24-Jun	16	23.39	245.18	26	35.77	411.84	42	29.58	332.80
25-Jun	2	3.12	248.30	3	4.82	416.66	5	3.97	336.77
26-Jun	7	18.40	266.70	4	12.24	428.90	11	15.32	352.09
27-Jun	0	0.00	266.70	5	14.29	443.19	5	7.15	359.24
28-Jun	0	0.00	266.70	6	8.08	451.27	6	4.04	363.28
29-Jun	4	6.32	273.02	8	22.86	474.13	12	14.59	377.87
30-Jun	5	13.95	286.97	6	8.18	482.31	11	11.07	388.93
1-Jul	3	4.62	291.59	0	0.00	482.31	3	2.31	391.24
2-Jul	0	0.00	291.59	3	10.59	492.90	3	5.30	396.54
3-Jul	0	0.00	291.59	0	0.00	492.90	0	0.00	396.54
4-Jul	1	3.24	294.83	2	3.16	496.06	3	3.20	399.74
5-Jul	4	5.82	300.65	1	1.67	497.73	5	3.75	403.48
6-Jul	2	3.16	303.81	0	0.00	497.73	2	1.58	405.06
7-Jul	0	0.00	303.81	0	0.00	497.73	0	0.00	405.06
8-Jul	0	0.00	303.81	0	0.00	497.73	0	0.00	405.06
9-Jul	1	1.43	305.24	0	0.00	497.73	1	0.72	405.78
10-Jul	0	0.00	305.24	0	0.00	497.73	0	0.00	405.78
11-Jul	2	2.93	308.17	0	0.00	497.73	2	1.47	407.24
12-Jul	0	0.00	308.17	0	0.00	497.73	0	0.00	407.24
13-Jul	0	0.00	308.17	0	0.00	497.73	0	0.00	407.24
14-Jul	0	0.00	308.17	0	0.00	497.73	0	0.00	407.24
15-Jul	0	0.00	308.17	1	1.46	499.19	1	0.73	407.97
Total	200	308.17		307	499.19		507	407.97	

<sup>a</sup> The box within the column indicates the first to the third quartile of the cumulative index. The median date of the cumulative index is also highlighted.

Table 2. Chinook salmon age, sex, and length data for the Lower Yukon drift gillnet test fishery, 2003.

Big Eddy, 8.25" test fish catch, age and sex composition, and mean length (mm).																
Sample Size		Brood Year and (Age Group)												Total		
		1999 (1.2)		1998 (1.3)		1997 (1.4) (2.3)		1996 (1.5) (2.4)								
		No.	Per.	No.	Per.	No.	Per.	No.	Per.	No.	Per.					
Season Total	203	Males	1	1.0	53	26.1	39	19.2	0	0.0	4	2.0	0	0.0	97	47.8
		Females	0	0.0	9	4.4	87	42.9	0	0.0	10	4.9	0	0.0	106	52.2
		Total	1	1.0	62	30.5	126	62.1	0	0.0	14	6.9	0	0.0	203	100.0
Mean Length Std. Error	Males		595.0		755.0		822.0		0.0		883.0		0.0			
			0.0		0.0		10.0		0.0		63.0		0.0			
Mean Length Std. Error	Females		0.0		791.0		871.0		0.0		889.0		0.0			
			0.0		18.0		6.0		0.0		15.0		0.0			

Middle Mouth, 8.25" test fish catch, age and sex composition, and mean length (mm).																
Sample Size		Brood Year and (Age Group)												Total		
		1999 (1.2)		1998 (1.3)		1997 (1.4) (2.3)		1996 (1.5) (2.4)								
		No.	Per.	No.	Per.	No.	Per.	No.	Per.	No.	Per.					
Season Total	103	Males	0	0.0	19	18.5	26	25.3	0	0.0	2	1.9	0	0	47	45.6
		Females	0	0.0	9	8.7	40	38.8	0	0.0	7	6.8	0	0	56	54.4
		Total	0	0.0	28	27.0	66	64.1	0	0.0	9	8.7	0	0	103	100.0
Mean Length Std. Error	Males		0.0		772.0		841.0		0.0		948.0		0.0			
			0.0		8.0		9.0		0.0		53.0		0.0			
Mean Length Std. Error	Females		0.0		789.0		865.0		0.0		874.0		0.0			
			0.0		11.0		8.0		0.0		15.0		0.0			

Big Eddy and Middle Mouth, 8.25" test fish catch, age and sex composition and mean length (mm) combined.																
Sample Size		Brood Year and (Age Group)												Total		
		1999 (1.2)		1998 (1.3)		1997 (1.4) (2.3)		1996 (1.5) (2.4)								
		No.	Per.	No.	Per.	No.	Per.	No.	Per.	No.	Per.					
Season Total	306	Males	1	0.3	72	23.5	65	21.2	0	0.0	6	2.0	0	0.0	144	47.1
		Females	0	0.0	18	5.9	127	41.5	0	0.0	17	5.6	0	0.0	162	52.9
		Total	1	0.3	90	29.4	192	62.7	0	0.0	23	7.5	0	0.0	306	100.0

Table 3. Catch data for the Lower Yukon River summer chum salmon drift gillnet test fisheries, 2003. <sup>a</sup>

Date	Middle Mouth Test Fish			Big Eddy Test Fish			M.M. and B.E. Combined		
	Daily Catch	Daily CPUE	Cum. CPUE	Daily Catch	Daily CPUE	Cum. CPUE	Daily Catch	Daily CPUE	Cum. CPUE
28-May				0	0.00	0.00	0	0.00	0
29-May				0	0.00	0.00	0	0.00	0
30-May				2	2.93	2.93	2	2.93	2.93
31-May	0	0.00	.00	0	0.00	2.93	0	0.00	2.93
1-Jun	0	0.00	.00	0	0.00	2.93	0	0.00	2.93
2-Jun	1	1.58	1.58	2	3.38	6.31	3	2.48	5.41
3-Jun	2	3.08	4.66	1	1.62	7.93	3	2.35	7.76
4-Jun	1	1.62	6.28	0	0.00	7.93	1	.81	8.57
5-Jun	0	0.00	6.28	6	8.53	16.46	6	4.27	12.84
6-Jun	4	5.74	12.02	6	9.05	25.51	10	7.40	20.23
7-Jun	1	1.58	13.60	1	1.54	27.05	2	1.56	21.79
8-Jun	1	1.58	15.18	4	6.26	33.31	5	3.92	25.71
9-Jun	0	0.00	15.18	0	0.00	33.31		0.00	25.71
10-Jun	2	2.93	18.11	0	0.00	33.31	2	1.47	27.18
11-Jun	0	0.00	18.11	18	25.17	58.48	18	12.59	39.76
12-Jun	3	4.32	22.43	223	455.89	514.37	226	230.11	269.87
13-Jun	17	23.04	45.47	60	199.49	713.86	77	111.27	381.13
14-Jun	1	1.54	47.01	74	99.08	812.94	75	50.31	431.44
15-Jun	2	6.08	53.09	55	83.51	896.45	57	44.80	476.24
16-Jun	1	3.08	56.17	41	120.00	1,016.45	42	61.54	537.78
17-Jun	2	5.11	61.28	37	57.56	1,074.01	39	31.34	569.11
18-Jun	1	1.43	62.71	0	0.00	1,074.01	1	0.72	569.83
19-Jun	12	15.89	78.60	44	66.27	1,140.28	56	41.08	610.91
20-Jun	3	4.71	83.31	111	158.47	1,298.75	114	81.59	692.50
21-Jun	5	15.33	98.64	38	110.86	1,409.61	43	63.10	755.59
22-Jun	18	25.11	123.75	1	1.50	1,411.11	19	13.31	768.90
23-Jun	2	3.24	126.99	1	1.71	1,412.82	3	2.48	771.37
24-Jun	17	25.81	152.80	190	248.83	1,661.65	207	137.32	908.69
25-Jun	0	0.00	152.80	16	24.48	1,686.13	16	12.24	920.93
26-Jun	2	6.08	158.88	24	66.75	1,752.88	26	36.42	957.35
27-Jun	1	1.50	160.38	19	51.82	1,804.70	20	26.66	984.01
28-Jun	3	9.33	169.71	79	62.46	1,867.16	82	35.90	1,019.90
29-Jun	63	80.17	249.88	18	86.32	1,953.48	81	83.25	1,103.15
30-Jun	19	46.16	296.04	181	272.78	2,226.26	200	159.47	1,262.62
1-Jul	25	35.50	331.54	1	1.62	2,227.88	26	18.56	1,281.18
2-Jul	6	17.56	349.10	48	130.23	2,358.11	54	73.90	1,355.07
3-Jul	18	25.85	374.95	14	40.00	2,398.11	32	32.93	1,388.00
4-Jul	6	17.74	392.69	13	16.58	2,414.69	19	17.16	1,405.16
5-Jul	73	93.44	486.13	5	8.44	2,423.13	78	50.94	1,456.10
6-Jul	5	7.66	493.79	3	4.58	2,427.71	8	6.12	1,462.22
7-Jul	0	0.00	493.79	0	0.00	2,427.71	0	0.00	1,462.22
8-Jul	3	9.08	502.87	0	0.00	2,427.71	3	4.54	1,466.76
9-Jul	32	43.41	546.28	12	18.49	2,446.20	44	30.95	1,497.71
10-Jul	2	2.93	549.21	80	125.39	2,571.59	82	64.16	1,561.87
11-Jul	87	107.69	656.90	19	25.12	2,596.71	106	66.41	1,628.27
12-Jul	17	25.67	682.57	0	0.00	2,596.71	17	12.84	1,641.11
13-Jul	3	4.87	687.44	2	3.00	2,599.71	5	3.94	1,645.04
14-Jul	6	9.31	696.75	28	40.38	2,640.09	34	24.85	1,669.89
15-Jul	4	12.63	709.38	2	2.86	2,642.95	6	7.75	1,677.63
Total	471	709		1,479	2,643		1,950	1,678	

<sup>a</sup> The box within the column indicates the first to the third quartile of the cumulative index. The median date of the cumulative index is also highlighted.

Table 4. Summer chum salmon age, sex, and length data for the Lower Yukon drift gillnet test fishery, 2003.

Sample Dates			Sample Size			Brood Year and (Age Group)									
						2000		1999		1998		1997		Total	
						(0.2)		(0.3)		(0.4)		(0.5)			
			No.	Per.	No.	Per.	No.	Per.	No.	Per.	No.	Per.			
Season Total	566	Males	1	0.2	204	36.1	53	9.4	4	0.7	262	46.3			
		Females	0	0.0	230	40.6	67	11.8	7	1.2	304	53.7			
		Total	1	0.2	434	76.7	120	21.1	11	1.9	566	100.0			
Mean Length		Males	560.0		569.0		591.0		624.0						
Std. Error			0.0		2.0		4.0		8.0						
Mean Length		Females	0.0		559.0		576.0		594.0						
Std. Error			0.0		2.0		3.0		9.0						

Sample Dates			Sample Size			Brood Year and (Age Group)									
						2000		1999		1998		1997		Total	
						(0.2)		(0.3)		(0.4)		(0.5)			
			No.	Per.	No.	Per.	No.	Per.	No.	Per.	No.	Per.			
Season Total	256	Males	0	0.0	94	36.7	16	6.3	3	1.2	113	44.1			
		Females	2	0.8	119	46.5	18	7.0	4	1.5	143	55.9			
		Total	2	8.0	213	83.2	34	13.3	7	2.7	256	100.0			
Mean Length		Males	0.0		573.0		604.0		637.0						
Std. Error			0.0		3.0		7.0		14.0						
Mean Length		Females	553.0		562.0		581.0		583.0						
Std. Error			13.0		2.0		7.0		13.0						

Sample Dates			Sample Size			Brood Year and (Age Group)									
						2000		1999		1998		1997		Total	
						(0.2)		(0.3)		(0.4)		(0.5)			
			No.	Per.	No.	Per.	No.	Per.	No.	Per.	No.	Per.			
Season Total	822	Males	1	0.1	298	36.3	69	8.4	7	0.9	375	45.6			
		Females	2	0.2	349	42.5	85	10.3	11	1.3	447	54.4			
		Total	3	0.4	647	78.7	154	18.7	18	2.2	822	100.0			

Table 5. Catch data for the Lower Yukon River fall chum salmon drift gillnet test fisheries, 2003. <sup>a</sup>

Date	Middle Mouth Test Fishery				Big Eddy Test Fishery			M.M and B.E. Combined		
	Daily Catch	Daily CPUE	Prop.	Cum. CPUE	Daily Catch	Daily CPUE	Cum. CPUE	Daily Catch	Daily CPUE	Cum. CPUE
16-Jul	41	50.02	0.04	50.02	1	1.5	1.54	42	25.78	25.8
17-Jul	26	36.65	0.08	86.67	3	4.7	6.24	29	20.68	46.5
18-Jul	2	3.00	0.08	89.67	0	0.0	6.24	2	1.50	48.0
19-Jul	0	0.00	0.08	89.67	3	3.7	9.91	3	1.84	49.8
20-Jul	1	1.54	0.08	91.21	1	1.6	11.53	2	1.58	51.4
21-Jul	32	46.75	0.12	137.96	1	1.7	13.24	33	24.23	75.6
22-Jul	58	75.26	0.19	213.22	5	7.7	20.97	63	41.50	117.1
23-Jul	20	28.52	0.21	241.74	1	1.7	22.64	21	15.10	132.2
24-Jul	13	19.50	0.23	261.24	0	0.0	22.64	13	9.75	141.9
25-Jul	3	4.58	0.24	265.82	0	0.0	22.64	3	2.29	144.2
26-Jul	0	0.00	0.24	265.82	8	13.2	35.85	8	6.61	150.8
27-Jul	4	6.33	0.24	272.15	66	163.3	199.16	70	84.82	235.7
28-Jul	35	44.08	0.28	316.23	5	7.1	206.30	40	25.61	261.3
29-Jul	26	30.77	0.31	347.00	3	4.6	210.88	29	17.68	278.9
30-Jul	0	0.00	0.31	347.00	2	3.2	214.05	2	1.59	280.5
31-Jul	1	1.67	0.31	348.67	0	0.0	214.05	1	0.84	281.4
1-Aug	6	9.65	0.32	358.32	0	0.0	214.05	6	4.83	286.2
2-Aug	1	1.50	0.32	359.82	0	0.0	214.05	1	0.75	286.9
3-Aug	125	186.74	0.48	546.56	154	220.2	434.27	279	203.48	490.4
4-Aug	91	119.74	0.59	666.30	168	240.2	674.49	259	179.98	670.4
5-Aug	15	22.33	0.61	688.63	6	9.6	684.13	21	15.99	686.4
6-Aug	0	0.00	0.61	688.63	2	3.1	687.21	2	1.54	687.9
7-Aug	0	0.00	0.61	688.63	0	0.0	687.21	0	0.00	687.9
8-Aug	0	0.00	0.61	688.63	0	0.0	687.21	0	0.00	687.9
9-Aug	0	0.00	0.61	688.63	4	5.7	692.90	4	2.85	690.8
10-Aug	1	1.43	0.61	690.06	36	49.1	741.99	37	25.26	716.0
11-Aug	1	1.43	0.61	691.49	3	4.7	746.73	4	3.09	719.1
12-Aug	41	64.84	0.67	756.33	43	65.8	812.55	84	65.33	784.4
13-Aug	0	0.00	0.67	756.33	0	0.0	812.55	0	0.00	784.4
14-Aug	35	54.83	0.72	811.16	35	55.4	867.95	70	55.12	839.6
15-Aug	40	164.48	0.87	975.64	94	354.3	1222.29	134	259.41	1099.0
16-Aug	19	52.18	0.91	1027.82	19	45.3	1267.63	38	48.76	1147.7
17-Aug	11	20.46	0.93	1048.28	3	4.8	1272.39	14	12.61	1160.3
18-Aug	3	4.82	0.93	1053.10	3	4.6	1277.01	6	4.72	1165.1
19-Aug	0	0.00	0.93	1053.10	0	0.0	1277.01	0	0.00	1165.1
20-Aug	3	4.66	0.94	1057.76	0	0.0	1277.01	3	2.33	1167.4
21-Aug	0	0.00	0.94	1057.76	5	7.8	1284.85	5	3.92	1171.3
22-Aug	25	39.25	0.97	1097.01	2	3.2	1288.05	27	21.23	1192.5
23-Aug	10	10.59	0.98	1107.60	43	57.7	1345.72	53	34.13	1226.7
24-Aug	10	14.97	1.00	1122.57	13	19.3	1365.06	23	17.16	1243.8
25-Aug	0	0.00	1.00	1122.57	2	6.0	1371.06	2	3.00	1246.8
26-Aug	3	4.66	1.00	1127.23	0	0.0	1371.06	3	2.33	1249.1
27-Aug	0	0.00	1.00	1127.23	0	0.0	1371.06	0	0.00	1249.1
28-Aug	0	0.00	1.00	1127.23	0	0.0	1371.06	0	0.00	1249.1
Total	702	1127.2			734	1371.1		1,436	1249.1	

<sup>a</sup> The box within the column indicates the first to the third quartile of the cumulative index. The median date of the cumulative index is also highlighted.

Table 6. Fall chum salmon age, sex, and length data for the Lower Yukon drift gillnet test fishery, 2003. <sup>a</sup>

Big Eddy, 6.0" drift gillnet test fishing catch, age and sex composition, and mean length (mm).												
Sample Size			Brood Year and (Age Group)								Total	
			2000 (0.2)		1999 (0.3)		1998 (0.4)		1997 (0.5)			
			No.	Per.	No.	Per.	No.	Per.	No.	Per.	No.	Per.
Season Total	294	Males	2	0.7	106	36.0	9	3.1	0	0.0	117	39.8
		Females	1	0.3	164	55.8	10	3.4	2	0.7	177	60.2
		Total	3	1.0	270	91.8	19	6.5	2	0.7	294	100.0
Mean Length		Males	598.0		607.0		632.0		0.0			
Std. Error			33.0		3.0		13.0		0.0			
Mean Length		Females	555.0		595.0		615.0		630.0			
Std. Error			0.0		2.0		11.0		0.0			

Middle Mouth, 6.0" drift gillnet test fishing catch, age and sex composition and mean length (mm).												
Sample Size			Brood Year and (Age Group)								Total	
			2000 (0.2)		1999 (0.3)		1998 (0.4)		1997 (0.5)			
			No.	Per.	No.	Per.	No.	Per.	No.	Per.	No.	Per.
Season Total	391	Males	1	0.3	155	39.6	17	4.4	1	0.3	174	44.5
		Females	1	0.2	192	49.1	24	6.1	0	0.0	217	55.5
		Total	2	0.5	347	88.7	41	10.5	1	0.3	391	100.0
Mean Length		Males	560.0		609.0		618.0		640.0			
Std. Error			0.0		3.0		8.0		0.0			
Mean Length		Females	565.0		597.0		605.0		0.0			
Std. Error			0.0		2.0		6.0		0.0			

Middle Mouth and Big Eddy, 6.0" drift gillnet test fishing catch, age and sex composition and mean length (mm) combined.												
Sample Size			Brood Year and (Age Group)								Total	
			2000 (0.2)		1999 (0.3)		1998 (0.4)		1997 (0.5)			
			No.	Per.	No.	Per.	No.	Per.	No.	Per.	No.	Per.
Season Total	685	Males	3	0.4	261	38.1	26	3.8	1	0.1	291	42.5
		Females	2	0.3	356	52.0	34	5.0	2	0.3	394	57.5
		Total	5	0.7	617	90.1	60	8.8	3	0.4	685	100.0

Table 7. Catch data for the Lower Yukon River coho salmon drift gillnet test fisheries, 2003. <sup>a</sup>

Date	Middle Mouth Test Fishery			Big Eddy Test Fishery			M.M. and B.E. Combined		
	Daily Catch	Daily CPUE	Cum. CPUE	Daily Catch	Daily CPUE	Cum. CPUE	Daily Catch	Daily CPUE	Cum. CPUE
16-Jul	0	0.0	0.00	0	0.00	0.00	0	0.00	0.00
17-Jul	0	0.00	0.00	0	0.00	0.00	0	0.00	0.00
18-Jul	0	0.00	0.00	0	0.00	0.00	0	0.00	0.00
19-Jul	0	0.00	0.00	0	0.00	0.00	0	0.00	0.00
20-Jul	0	0.00	0.00	0	0.00	0.00	0	0.00	0.00
21-Jul	0	0.00	0.00	0	0.00	0.00	0	0.00	0.00
22-Jul	0	0.00	0.00	1	1.58	1.58	1	0.79	0.79
23-Jul	0	0.00	0.00	1	1.67	3.25	1	0.84	1.63
24-Jul	0	0.00	0.00	0	0.00	3.25	0	0.00	1.63
25-Jul	0	0.00	0.00	0	0.00	3.25	0	0.00	1.63
26-Jul	0	0.00	0.00	0	0.00	3.25	0	0.00	1.63
27-Jul	0	0.00	0.00	9	23.89	27.14	9	11.95	13.57
28-Jul	4	4.53	4.53	1	1.62	28.76	5	3.08	16.65
29-Jul	6	8.95	13.48	1	1.58	30.34	7	5.27	21.91
30-Jul	0	0.00	13.48	0	0.00	30.34	0	0.00	21.91
31-Jul	0	0.00	13.48	1	1.58	31.92	1	0.79	22.70
1-Aug	2	3.16	16.64	1	1.62	33.54	3	2.39	25.09
2-Aug	0	0.00	16.64	0	0.00	33.54	0	0.00	25.09
3-Aug	33	47.92	64.56	55	63.30	96.84	88	55.61	80.70
4-Aug	41	58.69	123.25	48	76.98	173.82	89	67.84	148.54
5-Aug	9	13.17	136.42	5	8.70	182.52	14	10.94	159.47
6-Aug	0	0.00	136.42	0	0.00	182.52	0	0.00	159.47
7-Aug	1	1.54	137.96	0	0.00	182.52	1	0.77	160.24
8-Aug	0	0.00	137.96	0	0.00	182.52	0	0.00	160.24
9-Aug	1	1.71	139.67	6	8.58	191.10	7	5.15	165.39
10-Aug	1	1.62	141.29	17	23.66	214.76	18	12.64	178.03
11-Aug	6	9.00	150.29	4	6.24	221.00	10	7.62	185.65
12-Aug	30	45.38	195.67	14	21.67	242.67	44	33.53	219.17
13-Aug	2	6.16	201.83	0	0.00	242.67	2	3.08	222.25
14-Aug	22	35.50	237.33	51	71.85	314.52	73	53.68	275.93
15-Aug	64	274.56	511.89	74	248.71	563.23	138	261.64	537.56
16-Aug	18	57.79	569.68	11	25.04	588.27	29	41.42	578.98
17-Aug	17	21.82	591.50	0	0.00	588.27	17	10.91	589.89
18-Aug	10	15.92	607.42	8	11.82	600.09	18	13.87	603.76
19-Aug	3	4.74	612.16	0	0.00	600.09	3	2.37	606.13
20-Aug	3	4.74	616.90	0	0.00	600.09	3	2.37	608.50
21-Aug	1	1.58	618.48	12	18.69	618.78	13	10.14	618.63
22-Aug	52	83.27	701.75	4	6.40	625.18	56	44.84	663.47
23-Aug	11	13.54	715.29	27	35.98	661.16	38	24.76	688.23
24-Aug	12	17.44	732.73	6	8.92	670.08	18	13.18	701.41
25-Aug	1	1.58	734.31	2	6.00	676.08	3	3.79	705.20
26-Aug	3	4.66	738.97	1	1.67	677.75	4	3.17	708.36
27-Aug	0	0.00	738.97	0	0.00	677.75	0	0.00	708.36
28-Aug	0	0.00	738.97	2	6.32	684.07	2	3.16	711.52
Total	353	738.97		362	684.07		715	711.52	

<sup>a</sup> The box within the column indicates the first to the third quartile of the cumulative index. The median date of the cumulative index is also highlighted.

Table 8. Coho salmon age, sex and length data for the Lower Yukon drift gillnet test fishery, 2003.

Big Eddy, 6.0" drift gillnet test fishing catch, age and sex composition and mean length (mm).												
Sample Size		Brood Year and (Age Group)								Total		
		2000 (1.1)		1999 (2.1)		1998 (2.2)		1998 (3.1)				
		No.	Per.	No.	Per.	No.	Per.	No.	Per.			
Season Total	217	Males	29	13.4	86	39.6	1	0.5	3	1.4	119	54.8
		Females	19	8.7	75	34.6	1	0.4	3	1.4	98	45.2
		Total	48	22.1	161	74.2	2	0.9	6	2.8	155	100.0
Mean Length		Males	591.0		588.0		560.0		598.0			
			Std. Error		7.0		4.0		0.0		25.0	
Mean Length		Females	594.0		590.0		555.0		598.0			
			Std. Error		7.0		2.0		0.0		40.0	

Middle Mouth, 6.0" drift gillnet test fishing catch, age and sex composition and length (mm).												
Sample Size		Brood Year and (Age Group)								Total		
		2000 (1.1)		1999 (2.1)		1998 (2.2)		1998 (3.1)				
		No.	Per.	No.	Per.	No.	Per.	No.	Per.			
Season Total	214	Males	20	9.3	78	36.4	0	0.0	3	1.4	101	47.2
		Females	32	15.0	77	36.0	1	0.5	3	1.4	113	52.8
		Total	52	24.3	155	72.4	1	0.5	18	2.8	214	100.0
Mean Length		Males	584.0		584.0		0.0		607.0			
			Std. Error		7.0		4.0		0.0		38.0	
Mean Length		Females	589.0		593.0		600.0		588.0			
			Std. Error		3.0		3.0		0.0		5.0	

Big Eddy and Middle Mouth, 6.0" drift gillnet test fishing catch, age and sex composition and length (mm) combined.												
Sample Size		Brood Year and (Age Group)								Total		
		2000 (1.1)		1999 (2.1)		1998 (2.2)		1998 (3.1)				
		No.	Per.	No.	Per.	No.	Per.	No.	Per.			
Season Total	431	Males	49	11.4	164	38.1	1	0.2	6	1.4	220	51.0
		Females	51	11.8	152	35.3	2	0.5	6	1.4	211	49.0
		Total	100	23.2	316	73.3	3	0.7	12	2.8	431	100.0

Table 9. Pilot Station summer season sonar passage estimates, 2003. <sup>a</sup>

Date	Chinook			Summer Chum		
	Daily	Cum.	prop.	Daily	Cum.	prop.
29-May						
30-May						
31-May						
1-Jun						
2-Jun						
3-Jun						
4-Jun						
5-Jun	514	514	0.00	2,205	2,205	0.00
6-Jun	7,990	8,504	0.03	5,536	7,741	0.01
7-Jun	5,101	13,605	0.05	8,660	16,401	0.01
8-Jun	10,081	23,686	0.09	1,787	18,188	0.01
9-Jun	2,933	26,619	0.10	4,662	22,850	0.02
10-Jun	8,369	34,988	0.14	2,256	25,106	0.02
11-Jun	6,163	41,151	0.16	406	25,512	0.02
12-Jun	5,468	46,619	0.18	521	26,033	0.02
13-Jun	16,408	63,027	0.25	197	26,230	0.02
14-Jun	39,206	102,233	0.40	16,074	42,304	0.03
15-Jun	19,162	121,395	0.48	41,238	83,542	0.07
16-Jun	7,542	128937	0.51	39,657	123,199	0.10
17-Jun	10,525	139462	0.55	27,254	150,453	0.12
18-Jun	10,412	149874	0.59	28,598	179,051	0.14
19-Jun	4,766	154640	0.61	24,191	203,242	0.16
20-Jun	5,686	160326	0.63	20,600	223,842	0.18
21-Jun	4,992	165,318	0.65	12,023	235,865	0.19
22-Jun	6,648	171,966	0.68	16,741	252,606	0.20
23-Jun	10,628	182,594	0.72	36,376	288,982	0.23
24-Jun	4,316	186,910	0.74	39,671	328,653	0.27
25-Jun	3,299	190,209	0.75	18,116	346,769	0.28
26-Jun	5,528	195,737	0.77	28,760	375,529	0.30
27-Jun	4,511	200,248	0.79	75,508	451,037	0.37
28-Jun	4,041	204,289	0.80	34,187	485,224	0.39
29-Jun	3,441	207,730	0.82	20,805	506,029	0.41
30-Jun	2,574	210,304	0.83	34,096	540,125	0.44
1-Jul	9,101	219,405	0.86	93,808	633,933	0.51
2-Jul	5,730	225,135	0.89	128,566	762,499	0.62
3-Jul	10,310	235,445	0.93	71,283	833,782	0.67
4-Jul	7,216	242,661	0.95	41,070	874,852	0.71
5-Jul	2,634	245,295	0.97	42,953	917,805	0.74
6-Jul	2,231	247,526	0.97	36,368	954,173	0.77
7-Jul	1,506	249,032	0.98	32,937	987,110	0.80
8-Jul	1,313	250,345	0.99	27,513	1,014,623	0.82
9-Jul	1,540	251,885	0.99	16,811	1,031,434	0.83
10-Jul	414	252,299	0.99	13,491	1,044,925	0.85
11-Jul	640	252,939	1.00	23,729	1,068,654	0.86
12-Jul	335	253,274	1.00	26,355	1,095,009	0.89
13-Jul	149	253,423	1.00	49,469	1,144,478	0.93
14-Jul	0	253,423	1.00	22,621	1,167,099	0.94
15-Jul	0	253,423	1.00	14,005	1,181,104	0.96
16-Jul	0	253,423	1.00	14,376	1,195,480	0.97
17-Jul	201	253,624	1.00	21,171	1,216,651	0.98
18-Jul	508	254,132	1.00	18,832	1,235,483	1.00
Total	254,132			1,235,483		

<sup>a</sup> The box within the column indicates the first to the third quartile of the cumulative index.

The median date of the cumulative index is also highlighted.

Table 10. Catch Data for the Lower Yukon River chinook salmon 8.5" set gillnet test fisheries, 2003. <sup>a</sup>

Date	Daily Catch	Daily CPUE	Cum. CPUE
27-May	9	0.6	0.56
28-May	8	0.2	0.73
29-May	2	0.0	0.77
30-May	2	0.0	0.81
31-May	45	0.5	1.28
1-Jun	60	0.63	1.91
2-Jun	57	0.59	2.50
3-Jun	50	0.52	3.02
4-Jun	50	0.52	3.54
5-Jun	63	0.66	4.20
6-Jun	61	0.64	4.84
7-Jun	36	0.38	5.22
8-Jun	73	0.76	5.98
9-Jun	50	0.52	6.50
10-Jun	85	0.89	7.39
11-Jun	83	0.86	8.25
12-Jun	238	2.48	10.73
13-Jun	159	1.66	12.39
14-Jun	83	0.86	13.25
15-Jun	103	1.07	14.32
16-Jun	73	0.76	15.08
17-Jun	55	0.57	15.65
18-Jun	17	0.18	15.83
19-Jun	54	0.56	16.39
20-Jun	61	0.64	17.03
21-Jun	102	1.06	18.09
22-Jun	55	0.57	18.66
23-Jun	24	0.25	18.91
24-Jun	144	1.50	20.41
25-Jun	24	0.25	20.66
26-Jun	33	0.34	21.00
27-Jun	41	0.43	21.43
28-Jun	32	0.33	21.76
29-Jun	108	1.13	22.89
30-Jun	83	0.86	23.75
1-Jul	32	0.33	24.08
2-Jul	21	0.22	24.30
3-Jul	18	0.19	24.49
4-Jul	37	0.39	24.88
5-Jul	27	0.28	25.16
6-Jul	30	0.31	25.47
7-Jul	15	0.16	25.63
8-Jul	10	0.10	25.73
9-Jul	14	0.15	25.88
10-Jul	40	0.42	26.30
11-Jul	17	0.18	26.48
12-Jul	12	0.13	26.61
13-Jul	15	0.16	26.77
14-Jul	18	0.19	26.96
15-Jul	9	0.09	27.05
<b>Total</b>	<b>2,538</b>		<b>27.05</b>

<sup>a</sup> The box within the column indicates the first to the third quartile of the cumulative index. The median date of the cumulative index is also highlighted.

Table 11. Pilot Station fall season sonar passage estimates, 2003.

Date	Fall Chum		Coho	
	Daily	Cum.	Daily	Cum.
19-Jul	11,548	11,548	0	0
20-Jul	14,398	25,946	0	0
21-Jul	12,836	38,782	0	0
22-Jul	7,939	46,721	0	0
23-Jul	7,781	54,502	0	0
24-Jul	24,304	78,806	0	0
25-Jul	22,450	101,256	531	531
26-Jul	18,450	119,706	1205	1,736
27-Jul	7,348	127,054	168	1,904
28-Jul	5,634	132,688	138	2,042
29-Jul	33,095	165,783	297	2,339
30-Jul	30,301	196,084	1301	3,640
31-Jul	25,975	222,059	1894	5,534
1-Aug	17,466	239,525	2,567	8,101
2-Aug	14,017	253,542	1,765	9,866
3-Aug	8,158	261,700	1,697	11,563
4-Aug	5,016	266,716	1,121	12,684
5-Aug	49,067	315,783	3,067	15,751
6-Aug	107,519	423,302	2,557	18,308
7-Aug	36,816	460,118	14,006	32,314
8-Aug	9,490	469,608	6,299	38,613
9-Aug	3,661	473,269	5,451	44,064
10-Aug	851	474,120	4,506	48,570
11-Aug	3,039	477,159	4,768	53,338
12-Aug	4,575	481,734	2,489	55,827
13-Aug	10,995	492,729	2,079	57,906
14-Aug	22,479	515,208	1,285	59,191
15-Aug	10,198	525,406	7,753	66,944
16-Aug	49,470	574,876	7,758	74,702
17-Aug	126,180	701,056	18,790	93,492
18-Aug	104,575	805,631	39,176	132,668
19-Aug	27,769	833,400	21,844	154,512
20-Aug	13,800	847,200	14,125	168,637
21-Aug	7,042	854,242	11,227	179,864
22-Aug	2,038	856,280	11,848	191,712
23-Aug	6,484	862,764	9,203	200,915
24-Aug	17,583	880,347	10,867	211,782
25-Aug	10,372	890,719	15,752	227,534
26-Aug	13,597	904,316	10,496	238,030
27-Aug	12,216	916,532	12,015	250,045
28-Aug	7,627	924,159	9,500	259,545
29-Aug	3,781	927,940	7,323	266,868
30-Aug	1,886	929,826	4,811	271,679
31-Aug	626	930,452	5,282	276,961
Total	930,452		276,961	

Second and third quartiles in boxes with midpoint in bold.

Table 12. Catch data for the 2001-2003 Lower Yukon River chinook salmon drift gillnet test fisheries, Big Eddy and Middle Mouth combined. <sup>a</sup>

Date	2001 B.E. and M.M..Combined			2002 B.E. and M.M..Combined			2003 B.E. and M.M..Combined			Date
	Daily Catch	Daily CPUE	Cum. CPUE	Daily Catch	Daily CPUE	Cum. CPUE	Daily Catch	Daily CPUE	Cum. CPUE	
28-May							2	5.7	5.72	28-May
29-May				0	0.00	0.00	2	2.86	8.58	29-May
30-May				0	0.00	0.00	0	0.00	8.58	30-May
31-May				0	0.00	0.00	6	7.78	16.355	31-May
1-Jun				2	1.58	1.58	4	2.61	18.96	1-Jun
2-Jun				0	0.00	1.58	6	4.42	23.375	2-Jun
3-Jun				5	4.06	5.64	0	0.00	23.375	3-Jun
4-Jun				0	0.00	5.64	3	2.27	25.645	4-Jun
5-Jun				10	7.38	13.01	4	2.91	28.555	5-Jun
6-Jun				6	4.54	17.55	14	10.38	38.935	6-Jun
7-Jun				7	5.16	22.71	4	3.08	42.01	7-Jun
8-Jun	2	1.58	1.58	1	0.77	23.48	5	3.72	45.73	8-Jun
9-Jun	6	4.66	6.24	4	3.10	26.58	2	1.54	47.27	9-Jun
10-Jun	1	0.79	7.03	7	3.85	30.43	3	2.27	49.54	10-Jun
11-Jun	5	3.86	10.89	6	3.90	34.33	58	36.48	86.02	11-Jun
12-Jun	21	15.22	26.10	29	20.92	55.25	53	41.66	127.68	12-Jun
13-Jun	49	38.30	64.40	37	43.19	98.44	27	14.71	142.385	13-Jun
14-Jun	49	107.90	172.29	15	11.87	110.30	33	23.69	166.075	14-Jun
15-Jun	22	43.54	215.83	18	12.85	123.15	34	28.68	194.755	15-Jun
16-Jun	39	29.38	245.20	17	19.97	143.12	3	4.50	199.255	16-Jun
17-Jun	1	0.88	246.08	4	3.31	146.42	28	23.41	222.665	17-Jun
18-Jun	0	0.00	246.08	13	17.54	163.96	5	3.76	226.425	18-Jun
19-Jun	7	5.00	251.08	15	11.75	175.71	13	9.82	236.245	19-Jun
20-Jun	4	3.29	254.37	7	6.42	182.13	29	20.86	257.1	20-Jun
21-Jun	48	50.21	304.58	17	12.03	194.15	7	10.72	267.815	21-Jun
22-Jun	31	25.43	330.01	25	19.34	213.49	37	25.36	293.175	22-Jun
23-Jun	46	65.19	395.20	36	29.36	242.85	13	10.05	303.22	23-Jun
24-Jun	23	72.78	467.98	12	25.20	268.05	42	29.58	332.8	24-Jun
25-Jun	41	36.42	504.40	5	3.87	271.92	5	3.97	336.77	25-Jun
26-Jun	38	27.55	531.95	8	5.66	277.57	11	15.32	352.09	26-Jun
27-Jun	38	27.14	559.09	3	4.43	282.00	5	7.15	359.235	27-Jun
28-Jun	27	21.57	580.66	1	0.73	282.73	6	4.04	363.275	28-Jun
29-Jun	10	13.64	594.30	28	19.74	302.46	12	14.59	377.865	29-Jun
30-Jun	4	3.32	597.61	5	3.95	306.41	11	11.07	388.93	30-Jun
1-Jul	4	2.29	599.90	4	3.24	309.64	3	2.31	391.24	1-Jul
2-Jul	1	0.65	600.55	5	3.55	313.19	3	5.30	396.535	2-Jul
3-Jul	1	0.79	601.34	3	2.37	315.56	0	0.00	396.535	3-Jul
4-Jul	3	2.14	603.48	1	1.50	317.06	3	3.20	399.735	4-Jul
5-Jul	10	7.43	610.91	0	0.00	317.06	5	3.75	403.48	5-Jul
6-Jul	4	3.12	614.03	1	0.81	317.87	2	1.58	405.06	6-Jul
7-Jul	0	0.00	614.03	0	0.00	317.87	0	0.00	405.06	7-Jul
8-Jul	3	2.33	616.36	0	0.00	317.87	0	0.00	405.06	8-Jul
9-Jul	5	3.66	620.02	1	0.75	318.62	1	0.72	405.775	9-Jul
10-Jul	0	0.00	620.02	0	0.00	318.62	0	0.00	405.775	10-Jul
11-Jul	1	0.79	620.81	1	0.81	319.43	2	1.47	407.24	11-Jul
12-Jul	0	0.00	620.81	0	0.00	319.43	0	0.00	407.24	12-Jul
13-Jul	0	0.00	620.81	0	0.00	319.43	0	0.00	407.24	13-Jul
14-Jul	0	0.00	620.81	0	0.00	319.43	0	0.00	407.24	14-Jul
15-Jul	0	0.00	620.81	0	0.00	319.43	1	0.73	407.97	15-Jul
Total	544		620.81	359		319.43	507		407.97	

a The box within the column indicates the first to the third quartile of the cumulative index. The median date of the cumulative index is also highlighted.

Table 13. Catch data for the 2001-2003 Lower Yukon summer chum salmon drift gillnet test fisheries, Big Eddy and Middle Mouth combined. <sup>a</sup>

Date	2001 B.E. and M.M. Combined			2002 B.E. and M.M. Combined			2003 B.E. and M.M. Combined			Date
	Catch	Daily CPUE	Cum. CPUE	Catch	Daily CPUE	Cum. CPUE	Catch	Daily CPUE	Cum. CPUE	
28-May							0	0.00	0.00	28-May
29-May				0	0.00	0.00	0	0.00	0.00	29-May
30-May				7	7.57	7.57	2	2.93	2.93	30-May
31-May				3	2.26	9.83	0	0.00	2.93	31-May
1-Jun				2	1.49	11.31	0	0.00	2.93	1-Jun
2-Jun				1	0.75	12.06	3	2.48	5.41	2-Jun
3-Jun				7	3.89	15.95	3	2.35	7.76	3-Jun
4-Jun				0	0.00	15.95	1	0.81	8.57	4-Jun
5-Jun				7	5.36	21.31	6	4.27	12.835	5-Jun
6-Jun				17	13.00	34.31	10	7.40	20.23	6-Jun
7-Jun				5	3.76	38.07	2	1.56	21.79	7-Jun
8-Jun	0	0.00	0.00	2	1.50	39.57	5	3.92	25.71	8-Jun
9-Jun	1	0.84	0.84	4	3.04	42.61	0	0.00	25.71	9-Jun
10-Jun	0	0.00	0.84	1	0.28	42.88	2	1.47	27.175	10-Jun
11-Jun	0	0.00	0.84	47	27.11	69.99	18	12.59	39.76	11-Jun
12-Jun	3	2.31	3.15	363	345.04	415.03	226	230.11	269.865	12-Jun
13-Jun	42	34.81	37.95	26	115.38	530.40	77	111.27	381.13	13-Jun
14-Jun	163	200.72	238.67	25	23.54	553.94	75	50.31	431.44	14-Jun
15-Jun	41	86.87	325.54	28	23.76	577.69	57	44.80	476.235	15-Jun
16-Jun	43	40.92	366.46	73	58.52	636.21	42	61.54	537.775	16-Jun
17-Jun	41	32.84	399.30	16	12.51	648.72	39	31.34	569.11	17-Jun
18-Jun	25	16.47	415.76	128	89.44	738.16	1	0.72	569.825	18-Jun
19-Jun	9	8.83	424.59	101	73.70	811.86	56	41.08	610.905	19-Jun
20-Jun	10	8.24	432.83	98	116.46	928.31	114	81.59	692.495	20-Jun
21-Jun	83	77.92	510.75	398	454.68	1382.99	43	63.10	755.59	21-Jun
22-Jun	83	64.19	574.94	58	63.35	1446.34	19	13.31	768.895	22-Jun
23-Jun	126	155.53	730.47	233	198.52	1644.85	3	2.48	771.37	23-Jun
24-Jun	68	241.58	972.05	180	308.93	1953.78	207	137.32	908.69	24-Jun
25-Jun	200	139.02	1111.07	90	60.83	2014.61	16	12.24	920.93	25-Jun
26-Jun	126	113.93	1224.99	13	8.98	2023.58	26	36.42	957.345	26-Jun
27-Jun	214	222.35	1447.34	10	14.62	2038.20	20	26.66	984.005	27-Jun
28-Jun	159	117.57	1564.91	25	44.03	2082.23	82	35.90	1019.9	28-Jun
29-Jun	16	13.24	1578.15	203	163.64	2245.86	81	83.25	1103.145	29-Jun
30-Jun	86	61.47	1639.62	54	48.82	2294.68	200	159.47	1262.615	30-Jun
1-Jul	27	21.59	1661.20	50	36.13	2330.81	26	18.56	1281.175	1-Jul
2-Jul	12	9.08	1670.28	27	26.77	2357.58	54	73.90	1355.07	2-Jul
3-Jul	21	16.27	1686.54	92	83.96	2441.54	32	32.93	1387.995	3-Jul
4-Jul	37	27.59	1714.13	5	7.55	2449.09	19	17.16	1405.155	4-Jul
5-Jul	28	23.57	1737.70	5	3.93	2453.02	78	50.94	1456.095	5-Jul
6-Jul	13	9.40	1747.10	15	11.58	2464.60	8	6.12	1462.215	6-Jul
7-Jul	17	24.40	1771.49	5	3.06	2467.66	0	0.00	1462.215	7-Jul
8-Jul	26	19.12	1790.61	1	1.50	2469.16	3	4.54	1466.755	8-Jul
9-Jul	10	7.15	1797.76	7	5.37	2474.52	44	30.95	1497.705	9-Jul
10-Jul	3	2.37	1800.13	4	3.87	2478.39	82	64.16	1561.865	10-Jul
11-Jul	1	0.75	1800.88	1	0.84	2479.23	106	66.41	1628.27	11-Jul
12-Jul	1	1.54	1802.42	4	5.62	2484.84	17	12.84	1641.105	12-Jul
13-Jul	0	0.00	1802.42	3	2.33	2487.17	5	3.94	1645.04	13-Jul
14-Jul	0	0.00	1802.42	3	2.38	2489.55	34	24.85	1669.885	14-Jul
15-Jul	0	0.00	1802.42	0	0.00	2489.55	6	7.75	1677.63	15-Jul
	1,735		1802.42	2,447		2489.55	1,950		1677.63	

<sup>a</sup> The box within the column indicates the first to the third quartile of the cumulative index. The median date of the cumulative index is also highlighted.

Table 14. Catch data for the 2001-2003 Lower Yukon fall chum salmon drift gillnet test fisheries, Big Eddy and Middle Mouth combined. <sup>a</sup>

Date	2001 B.E. and M.M. Combined			2002 B.E. and M.M. Combined			2003 B.E. and M.M. Combined			Date
	Daily Catch	Daily CPUE	Cum. CPUE	Daily Catch	Daily CPUE	Cum. CPUE	Daily Catch	Daily CPUE	Cum. CPUE	
16-Jul	29	21.28	21.28	1	0.79	0.79	42	25.78	25.78	16-Jul
17-Jul	192	149.66	170.94	19	11.03	11.82	29	20.68	46.46	17-Jul
18-Jul	183	139.21	310.14	0	0.00	11.82	2	1.50	47.96	18-Jul
19-Jul	38	27.38	337.52	4	3.01	14.82	3	1.84	49.79	19-Jul
20-Jul	2	1.50	339.02	0	0.00	14.82	2	1.58	51.37	20-Jul
21-Jul	4	3.00	342.02	1	0.73	15.55	33	24.23	75.60	21-Jul
22-Jul	8	6.31	348.32	0	0.00	15.55	63	41.50	117.10	22-Jul
23-Jul	35	50.64	398.96	0	0.00	15.55	21	15.10	132.19	23-Jul
24-Jul	83	64.87	463.83	0	0.00	15.55	13	9.75	141.94	24-Jul
25-Jul	38	31.44	495.27	81	54.30	69.85	3	2.29	144.23	25-Jul
26-Jul	6	4.25	499.52	3	3.27	73.12	8	6.61	150.84	26-Jul
27-Jul	15	11.33	510.85	12	9.29	82.41	70	84.82	235.66	27-Jul
28-Jul	6	4.62	515.46	45	35.28	117.69	40	25.61	261.27	28-Jul
29-Jul	1	0.77	516.23	50	32.18	149.86	29	17.68	278.94	29-Jul
30-Jul	10	7.54	523.77	2	1.54	151.40	2	1.59	280.53	30-Jul
31-Jul	119	95.32	619.09	0	0.00	151.40	1	0.84	281.36	31-Jul
1-Aug	55	43.12	662.20	23	15.57	166.97	6	4.83	286.19	1-Aug
2-Aug	166	114.07	776.27	2	1.54	168.51	1	0.75	286.94	2-Aug
3-Aug	149	101.86	878.13	8	5.84	174.35	279	203.48	490.42	3-Aug
4-Aug	30	22.58	900.71	1	0.77	175.12	259	179.98	670.40	4-Aug
5-Aug	10	7.00	907.70	1	0.79	175.91	21	15.99	686.38	5-Aug
6-Aug	87	100.73	1008.43	0	0.00	175.91	2	1.54	687.92	6-Aug
7-Aug	225	136.78	1145.20	27	18.10	194.01	0	0.00	687.92	7-Aug
8-Aug	42	32.57	1177.77	25	16.55	210.55	0	0.00	687.92	8-Aug
9-Aug	28	19.44	1197.21	132	95.72	306.27	4	2.85	690.77	9-Aug
10-Aug	20	16.23	1213.43	78	49.88	356.15	37	25.26	716.03	10-Aug
11-Aug	4	2.91	1216.34	17	19.38	375.52	4	3.09	719.11	11-Aug
12-Aug	35	26.21	1242.55	31	23.14	398.66	84	65.33	784.44	12-Aug
13-Aug	39	27.06	1269.61	21	20.94	419.60	0	0.00	784.44	13-Aug
14-Aug	24	17.26	1286.87	9	7.08	426.67	70	55.12	839.56	14-Aug
15-Aug	15	11.23	1298.10	26	18.65	445.32	134	259.41	1098.97	15-Aug
16-Aug	5	3.76	1301.86	273	284.72	730.03	38	48.76	1147.73	16-Aug
17-Aug	2	1.56	1303.42	57	38.44	768.47	14	12.61	1160.34	17-Aug
18-Aug	3	2.29	1305.71	16	12.06	780.53	6	4.72	1165.06	18-Aug
19-Aug	0	0.00	1305.71	9	6.68	787.20	0	0.00	1165.06	19-Aug
20-Aug	2	2.33	1308.04	3	2.85	790.05	3	2.33	1167.39	20-Aug
21-Aug	19	13.83	1321.87	6	5.66	795.71	5	3.92	1171.31	21-Aug
22-Aug	5	3.75	1325.62	17	13.04	808.75	27	21.23	1192.53	22-Aug
23-Aug	0	0.00	1325.62	3	3.95	812.70	53	34.13	1226.66	23-Aug
24-Aug	1	0.77	1326.39	0	0.00	812.70	23	17.16	1243.82	24-Aug
25-Aug	0	0.00	1326.39	0	0.00	812.70	2	3.00	1246.82	25-Aug
26-Aug	0	0.00	1326.39	0	0.00	812.70	3	2.33	1249.15	26-Aug
27-Aug	0	0.00	1326.39	1	0.79	813.49	0	0.00	1249.15	27-Aug
28-Aug	0	0.00	1326.39	4	3.08	816.57	0	0.00	1249.15	28-Aug
	1,735	1326.39		1,008	816.57		1,436	1249.10		

<sup>a</sup> The box within the column indicates the first to the third quartile of the cumulative index. The median date of the cumulative index is also highlighted.

Table 15. Catch data for the 2001-2003 Lower Yukon coho salmon drift gillnet test fisheries, Big Eddy and Middle Mouth combined. <sup>a</sup>

Date	2001 B.E. and M.M. Combined			2002 B.E. and M.M. Combined			2003 B.E. and M.M. Combined			Date
	Daily Catch	Daily CPUE	Cum. CPUE	Daily Catch	Daily CPUE	Cum. CPUE	Daily Catch	Daily CPUE	Cum. CPUE	
16-Jul	0	0.00	0.00	0	0.00	0.00	0	0.00	0.00	16-Jul
17-Jul	0	0.00	0.00	0	0.00	0.00	0	0.00	0.00	17-Jul
18-Jul	0	0.00	0.00	0	0.00	0.00	0	0.00	0.00	18-Jul
19-Jul	0	0.00	0.00	0	0.00	0.00	0	0.00	0.00	19-Jul
20-Jul	0	0.00	0.00	0	0.00	0.00	0	0.00	0.00	20-Jul
21-Jul	0	0.00	0.00	0	0.00	0.00	0	0.00	0.00	21-Jul
22-Jul	0	0.00	0.00	0	0.00	0.00	1	0.79	0.79	22-Jul
23-Jul	1	1.50	1.50	0	0.00	0.00	1	0.84	1.63	23-Jul
24-Jul	1	0.88	2.38	0	0.00	0.00	0	0.00	1.63	24-Jul
25-Jul	0	0.00	2.38	0	0.00	0.00	0	0.00	1.63	25-Jul
26-Jul	0	0.00	2.38	0	0.00	0.00	0	0.00	1.63	26-Jul
27-Jul	1	0.75	3.13	0	0.00	0.00	9	11.95	13.57	27-Jul
28-Jul	0	0.00	3.13	0	0.00	0.00	5	3.08	16.65	28-Jul
29-Jul	0	0.00	3.13	0	0.00	0.00	7	5.27	21.91	29-Jul
30-Jul	1	0.75	3.88	0	0.00	0.00	0	0.00	21.91	30-Jul
31-Jul	4	3.05	6.93	0	0.00	0.00	1	0.79	22.70	31-Jul
1-Aug	0	0.00	6.93	3	2.04	2.04	3	2.39	25.09	1-Aug
2-Aug	7	4.86	11.79	0	0.00	2.04	0	0.00	25.09	2-Aug
3-Aug	19	13.29	25.07	3	2.20	4.24	88	55.61	80.70	3-Aug
4-Aug	13	9.85	34.92	0	0.00	4.24	89	67.84	148.54	4-Aug
5-Aug	8	5.70	40.62	1	0.72	4.95	14	10.94	159.47	5-Aug
6-Aug	10	18.03	58.65	0	0.00	4.95	0	0.00	159.47	6-Aug
7-Aug	70	50.38	109.02	8	5.53	10.48	1	0.77	160.24	7-Aug
8-Aug	26	21.82	130.84	8	5.18	15.66	0	0.00	160.24	8-Aug
9-Aug	15	14.08	144.92	22	16.70	32.35	7	5.15	165.39	9-Aug
10-Aug	46	27.75	172.67	15	9.56	41.91	18	12.64	178.03	10-Aug
11-Aug	21	15.41	188.07	30	26.15	68.06	10	7.62	185.65	11-Aug
12-Aug	38	28.61	216.68	20	15.58	83.63	44	33.53	219.17	12-Aug
13-Aug	43	31.52	248.20	20	21.92	105.55	2	3.08	222.25	13-Aug
14-Aug	39	28.23	276.42	7	5.34	110.89	73	53.68	275.93	14-Aug
15-Aug	46	34.28	310.70	28	20.02	130.90	138	261.64	537.56	15-Aug
16-Aug	18	13.58	324.28	74	102.86	233.76	29	41.42	578.98	16-Aug
17-Aug	14	11.14	335.41	63	45.98	279.74	17	10.91	589.89	17-Aug
18-Aug	12	9.23	344.64	41	34.05	313.79	18	13.87	603.76	18-Aug
19-Aug	18	15.60	360.24	30	22.75	336.54	3	2.37	606.13	19-Aug
20-Aug	3	2.35	362.59	10	10.59	347.12	3	2.37	608.50	20-Aug
21-Aug	16	11.27	373.86	5	3.81	350.93	13	10.14	618.63	21-Aug
22-Aug	19	14.50	388.36	24	17.87	368.80	56	44.84	663.47	22-Aug
23-Aug	2	1.54	389.90	4	3.04	371.84	38	24.76	688.23	23-Aug
24-Aug	3	2.29	392.19	3	3.12	374.96	18	13.18	701.41	24-Aug
25-Aug	0	0.00	392.19	1	0.77	375.73	3	3.79	705.20	25-Aug
26-Aug	2	1.47	393.65	1	1.03	376.76	4	3.17	708.36	26-Aug
27-Aug	0	0.00	393.65	1	0.79	377.55	0	0.00	708.36	27-Aug
28-Aug	3	0.81	394.46	3	4.62	382.16	2	3.16	711.52	28-Aug
	519	394.46		425	382.16		715	711.52		

<sup>a</sup> The box within the column indicates the first to the third quartile of the cumulative index. The median date of the cumulative index is also highlighted.

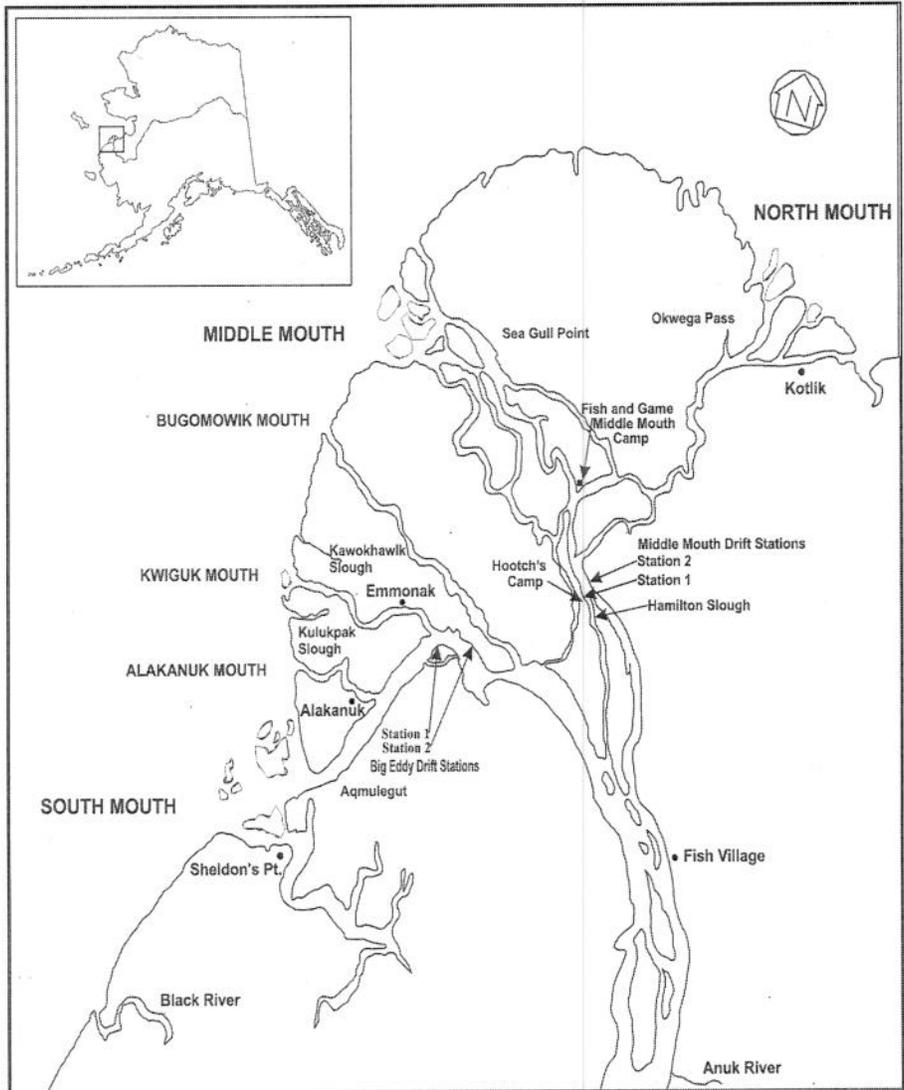


Figure 1. Drift stations for the cooperative Lower Yukon drift gillnet test fishery, 2003.

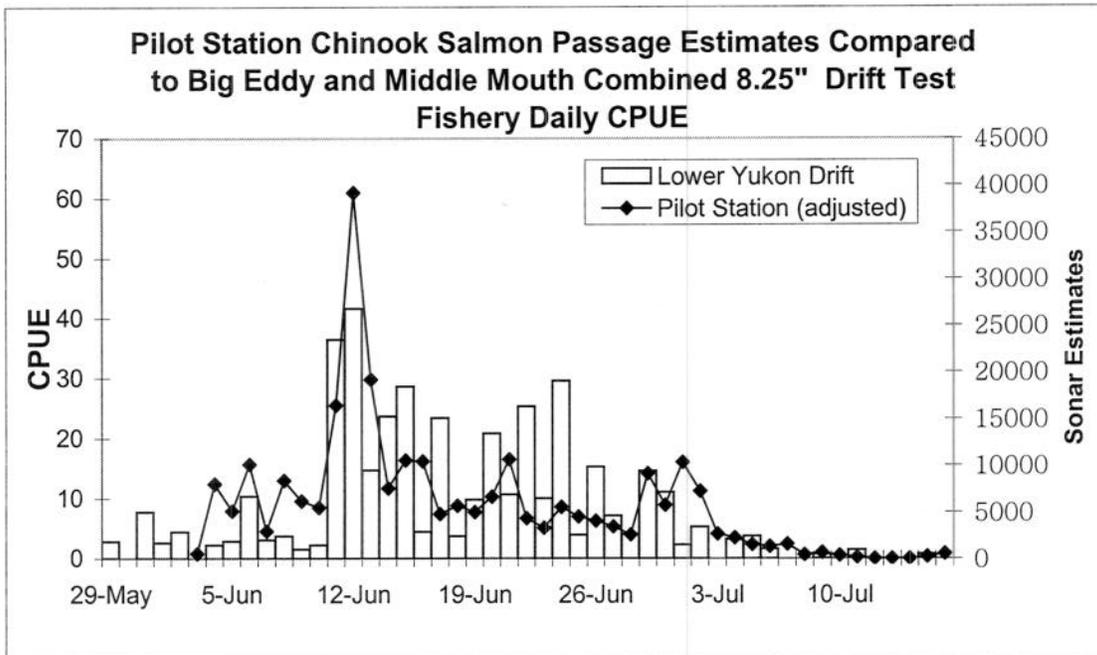


Figure 2. Chinook salmon caught by the Lower Yukon 8.25" drift gillnet test fisheries compared to Pilot Station sonar passage estimates corrected for transit time, 2003.

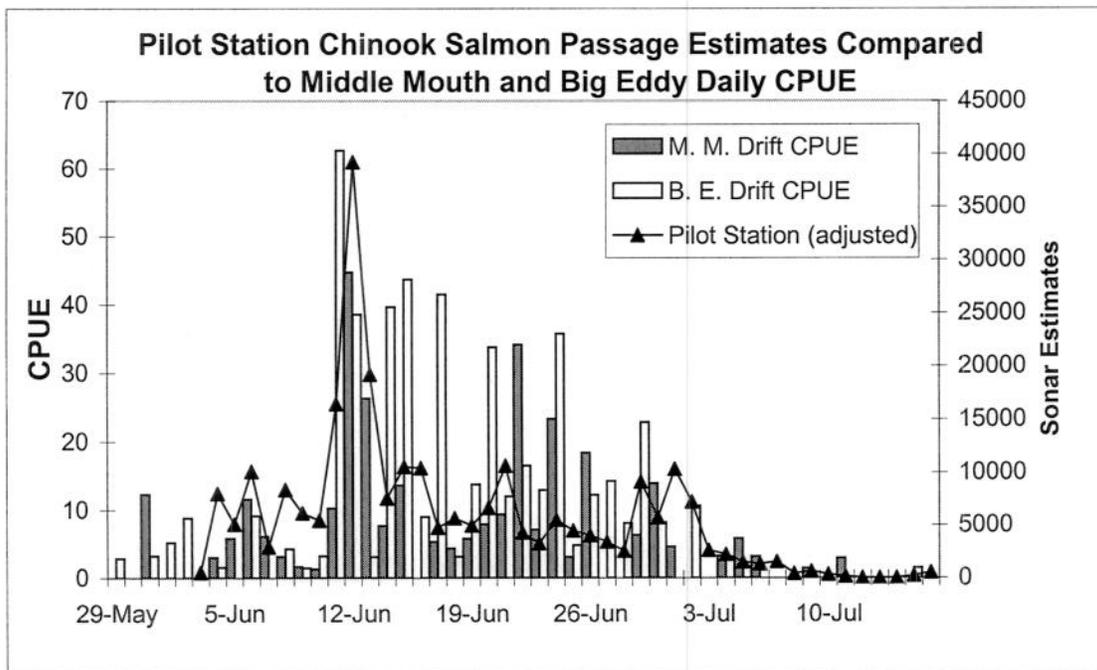


Figure 3. Chinook Salmon Caught in the Big Eddy and Middle Mouth 8.25" drift gillnet test fishery compared to Pilot Station Chinook Salmon passage estimates corrected for transit time, 2003.

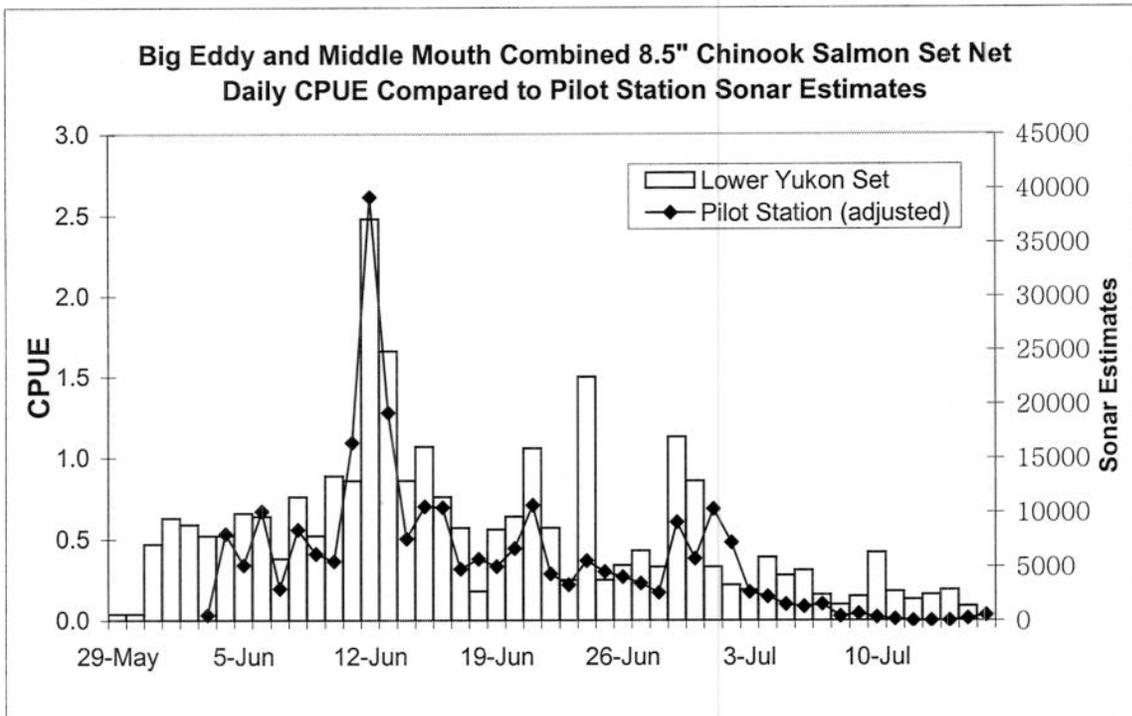


Figure 4. Chinook salmon caught by the Lower Yukon 8.5" set gillnet test fisheries compared to Pilot Station sonar passage estimates corrected for transit time, 2003.

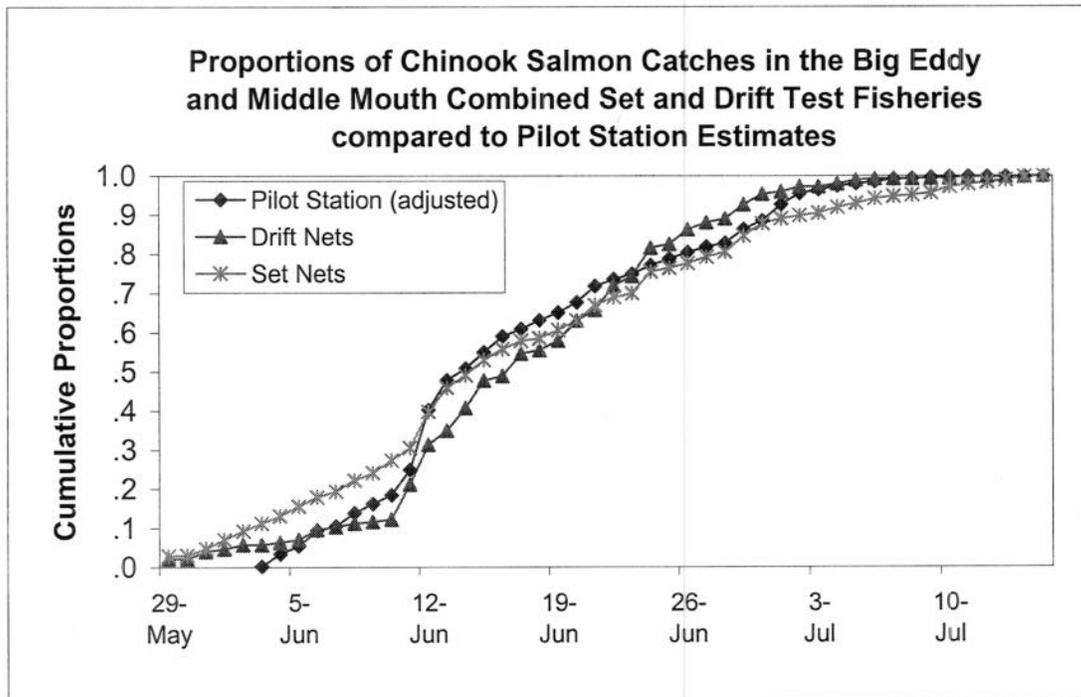


Figure 5. Cumulative proportions of the chinook salmon catches in the Lower Yukon 8.5" set and 8.25" drift gillnet test fisheries compared to Pilot Station chinook proportions, corrected for transit time 2003.

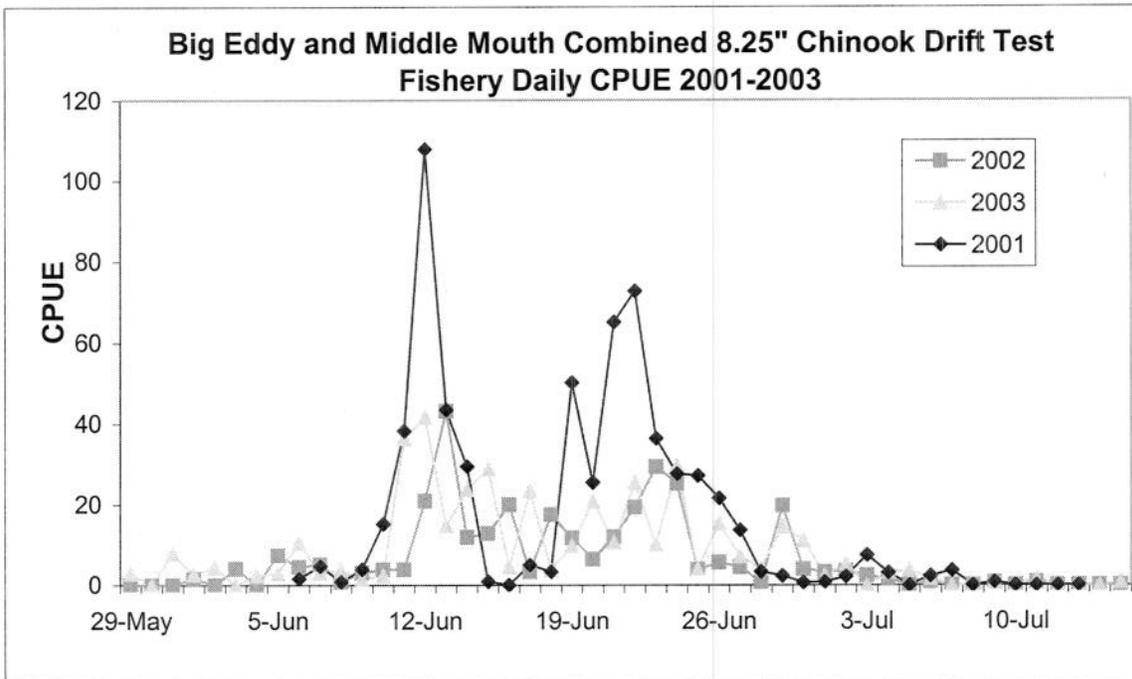


Figure 6. Daily CPUE for Lower Yukon 8.25" drift gillnet chinook salmon test fishery, 2001 through 2003.

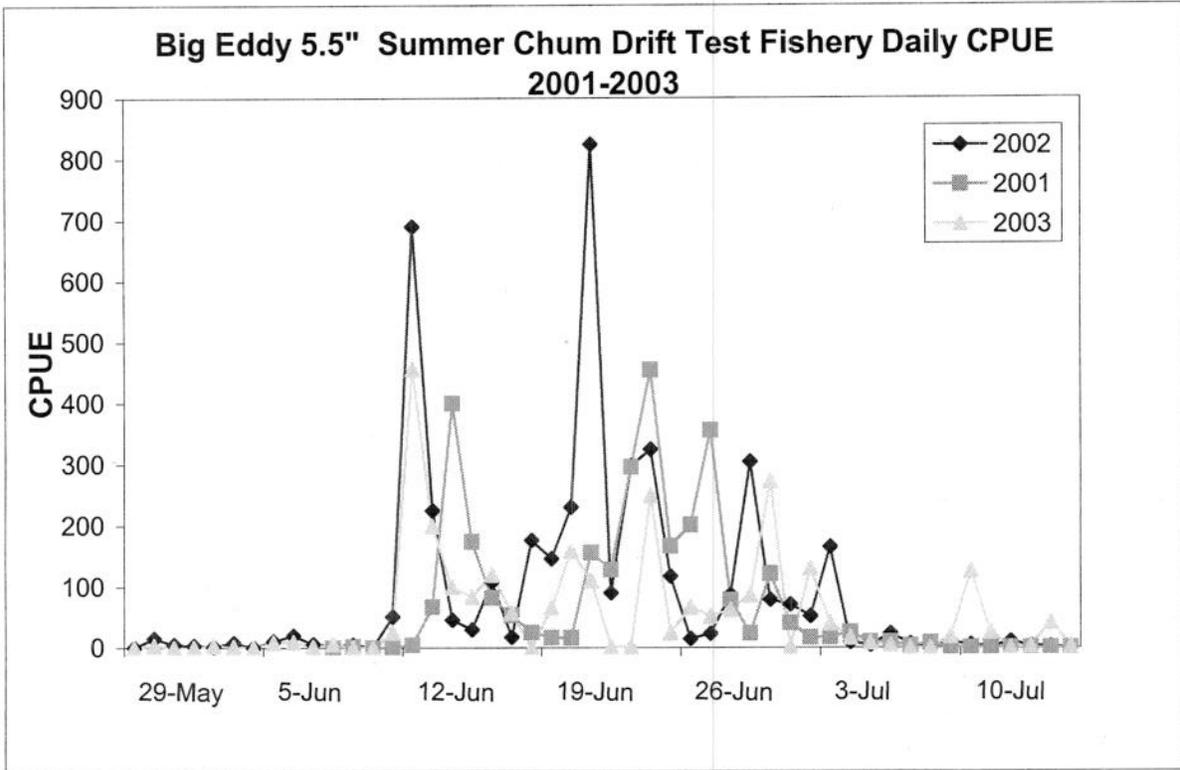


Figure 7. Daily CPUE for Big Eddy Daily 5.5" drift gillnet summer chum salmon test fishery, 2001 through 2003.

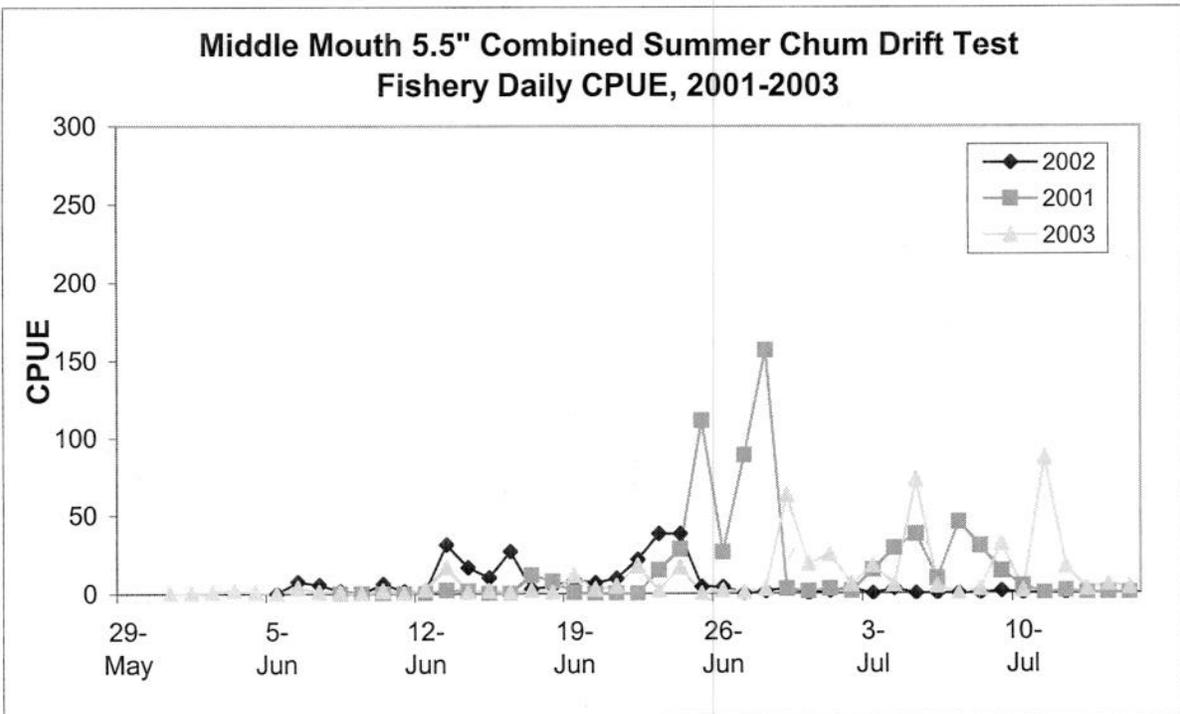


Figure 8. Daily CPUE for Middle Mouth 5.5" drift gillnet summer chum salmon test fishery, 2001 through 2003.

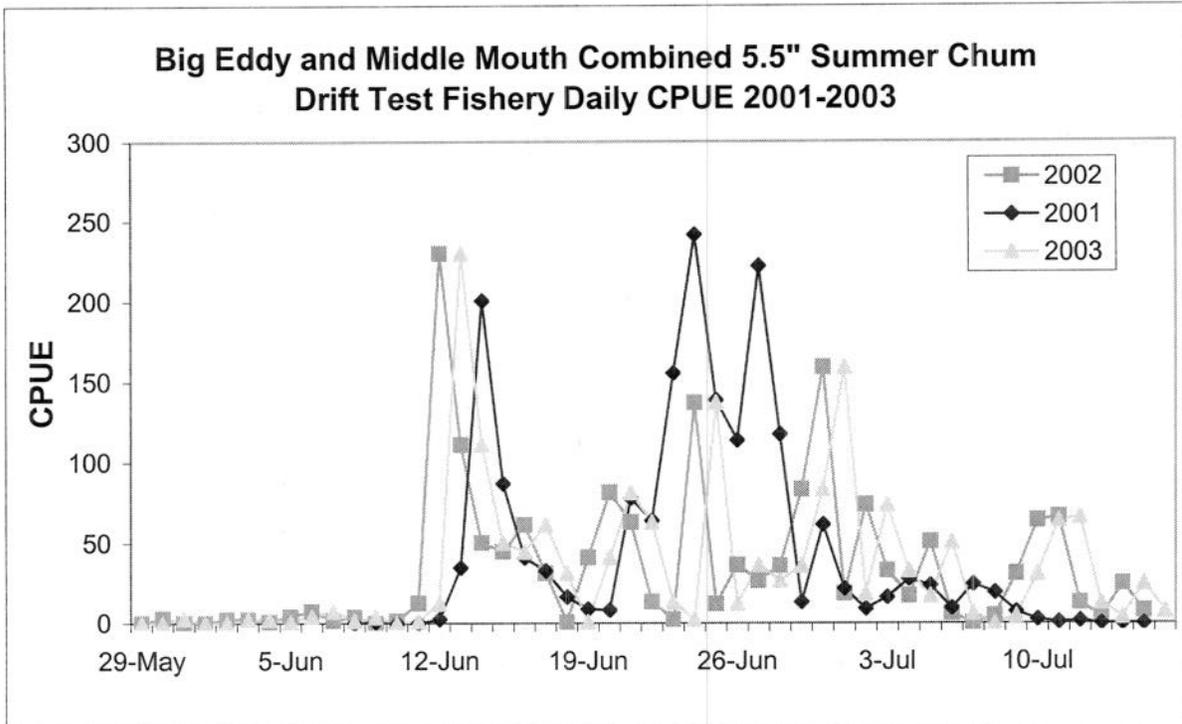


Figure 9. Daily CPUE for Lower Yukon Daily 5.5" drift gillnet summer chum salmon test fishery, 2001 through 2003.

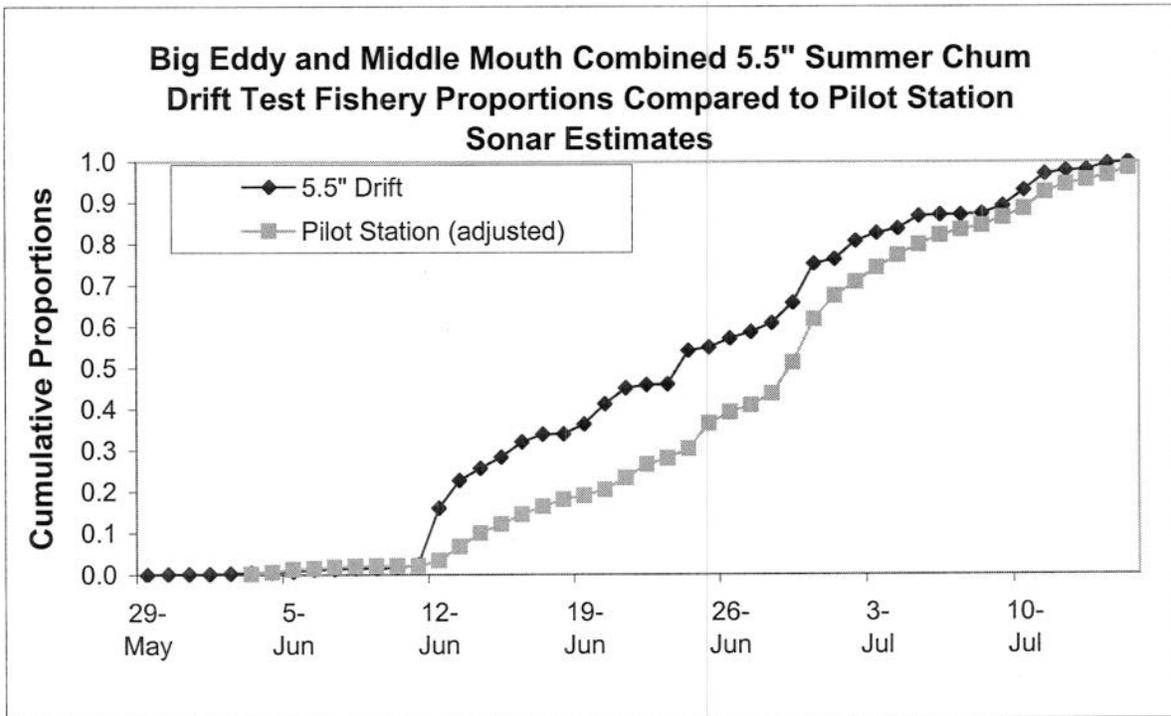


Figure 10. Cumulative proportions for summer chum salmon in the Lower Yukon drift gillnet test fisheries compared to Pilot Station summer chum proportions, adjusted for transit time 2003.

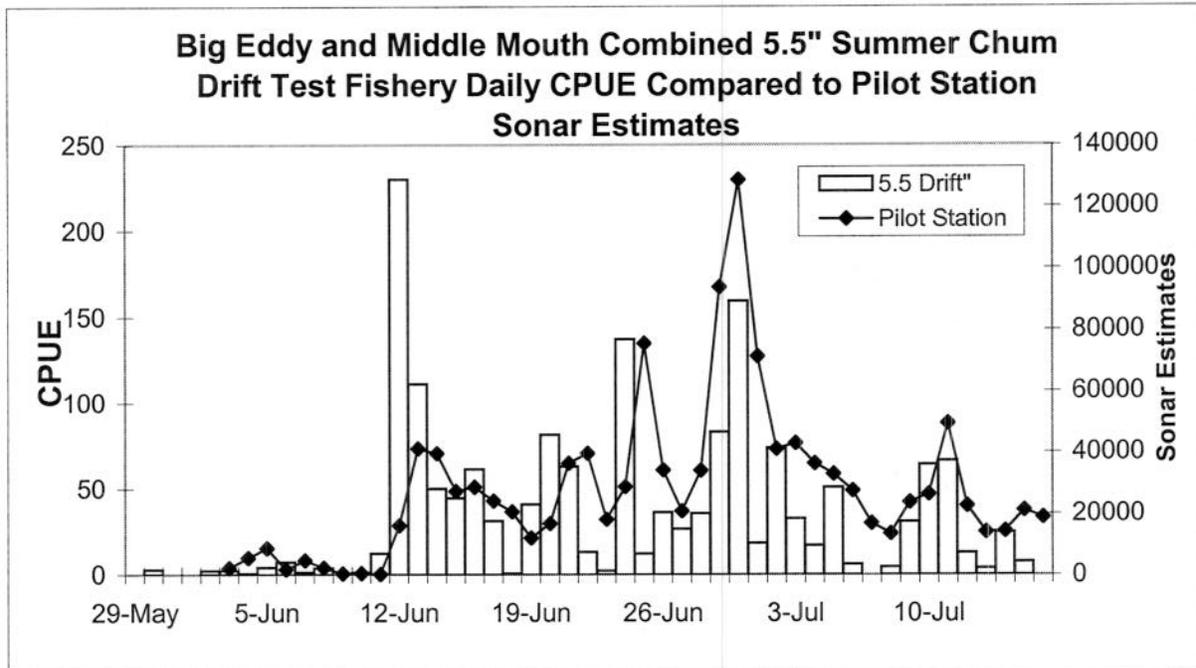


Figure. 11 Lower Yukon 5.5" summer chum drift gillnet test fisheries combined daily CPUE, compared to Pilot Station sonar passage estimates adjusted for transit time, 2003.

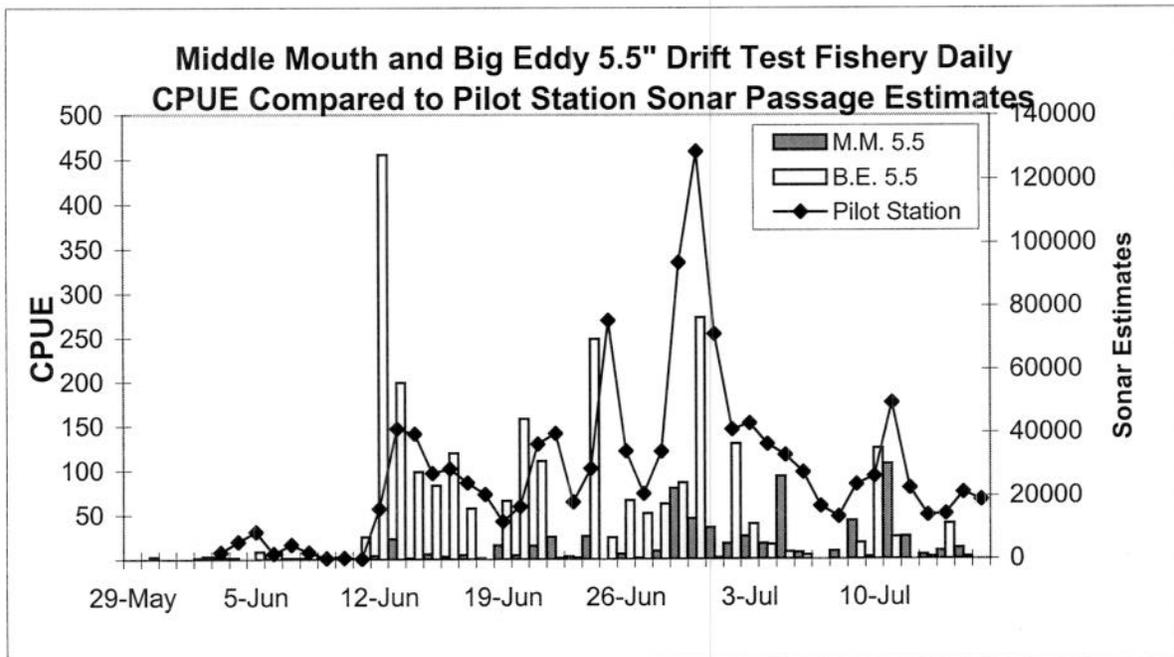


Figure 12. Daily CPUE for the Middle Mouth and Big Eddy 5.5" summer chum salmon drift gillnet test fisheries, compared to Pilot Station summer chum sonar passage estimates, 2003.

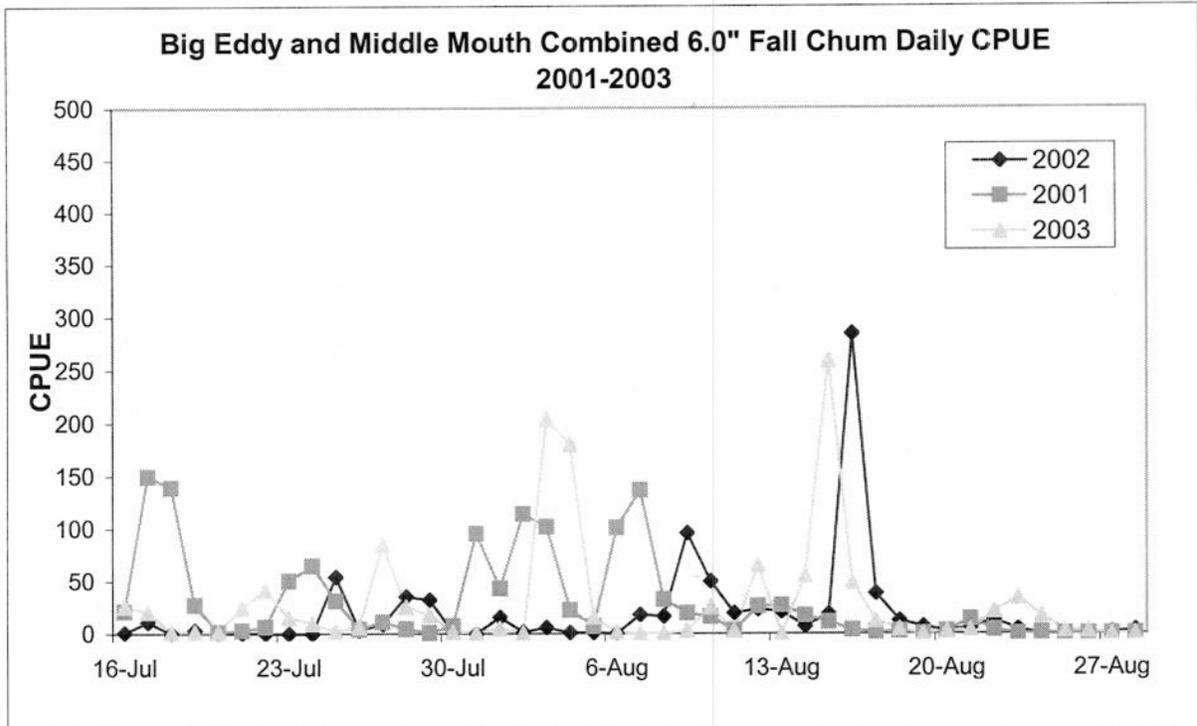


Figure 13. Daily CPUE for Lower Yukon 6.0" fall chum salmon drift gillnet test fishery, 2001 through 2003.

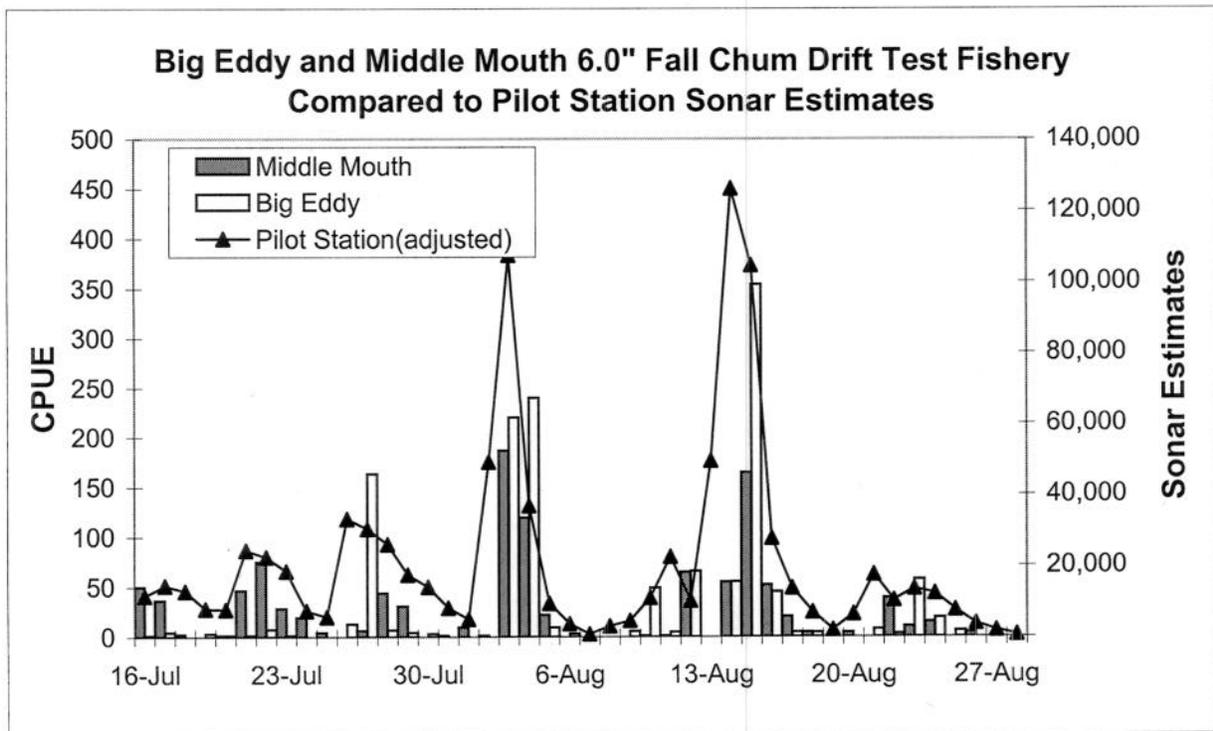


Figure 14. Daily CPUE for the Big Eddy and Middle Mouth 6.0" fall chum salmon drift gillnet test fishery, compared to Pilot Station sonar passage estimates, 2003.

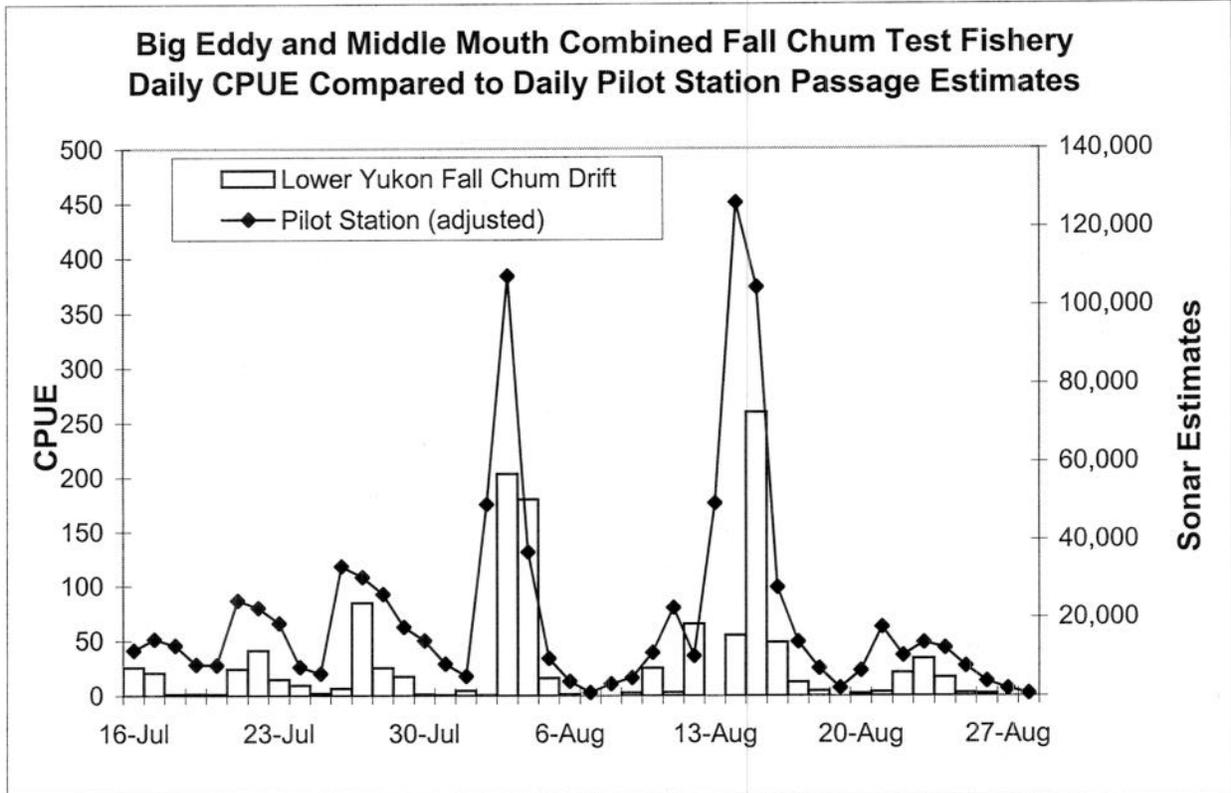


Figure 15. Lower Yukon fall chum salmon drift gillnet test fisheries combined daily CPUE compared to Pilot Station sonar passage estimates adjusted for transit time, 2003.

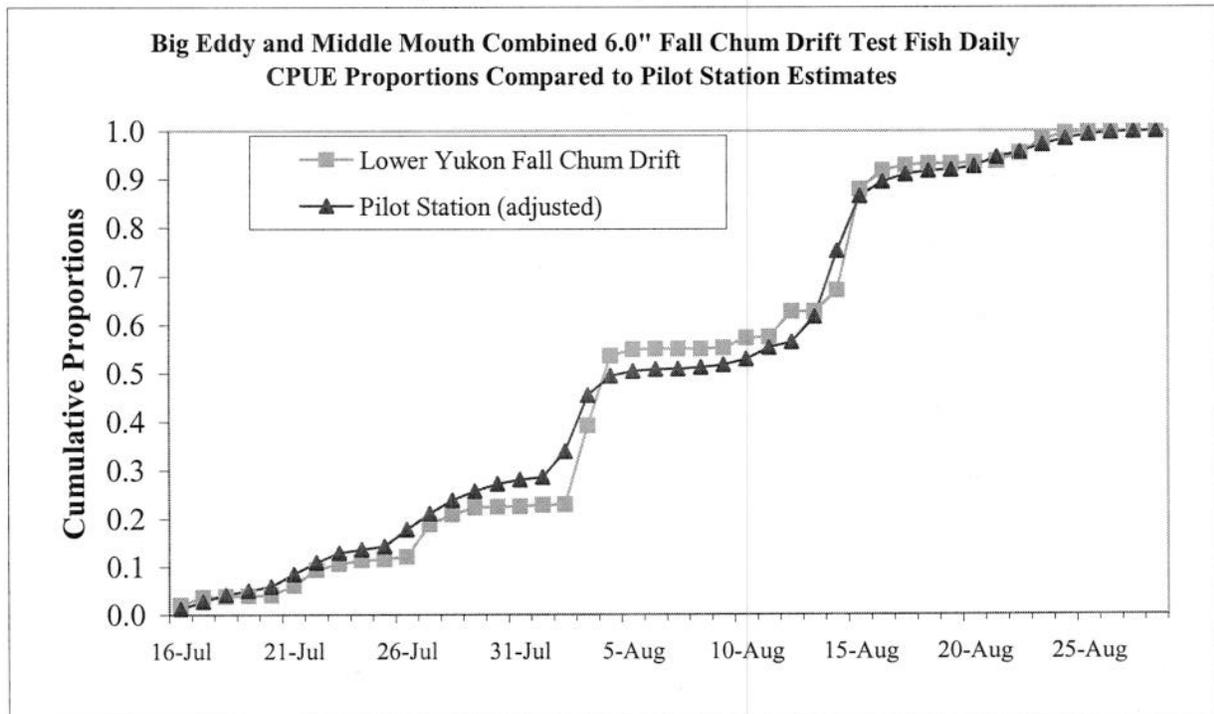


Figure 16. Proportions for the Lower Yukon 6.0" fall chum salmon drift gillnet test fishery compared to Pilot Station fall chum proportions adjusted for transit time, 2003.

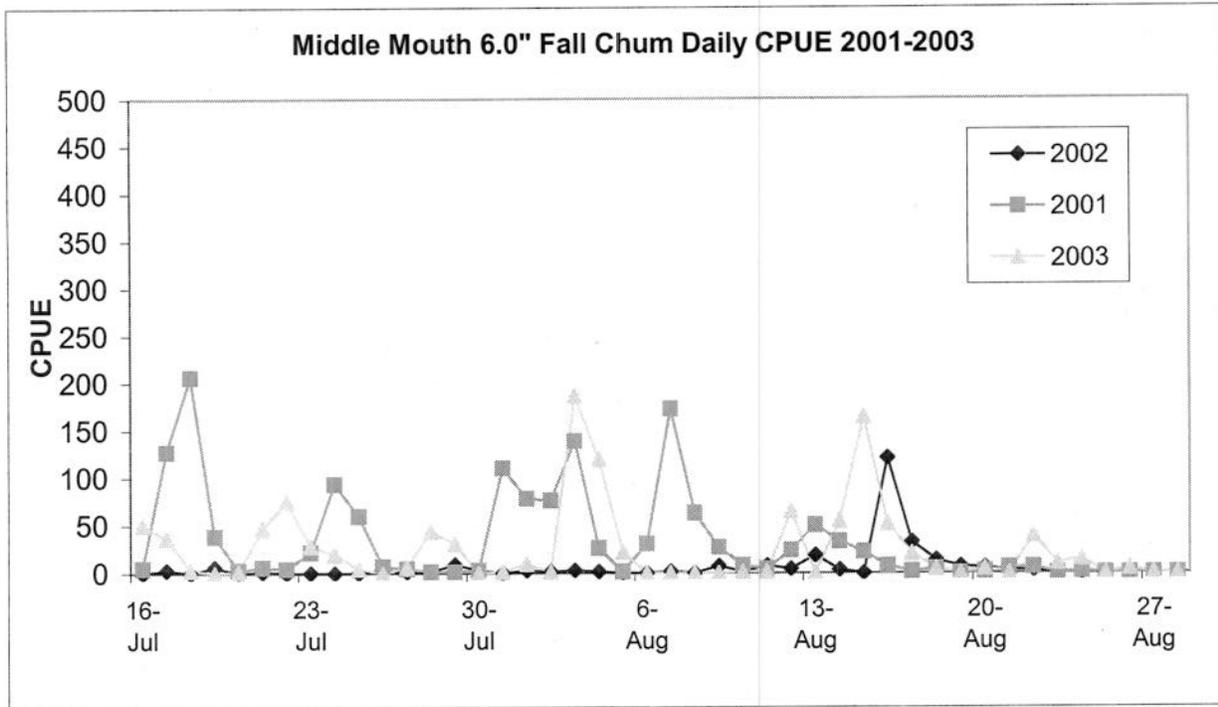


Figure 17. Middle Mouth 6.0" fall chum salmon drift gillnet test fishery daily CPUE, 2001 through 2003.

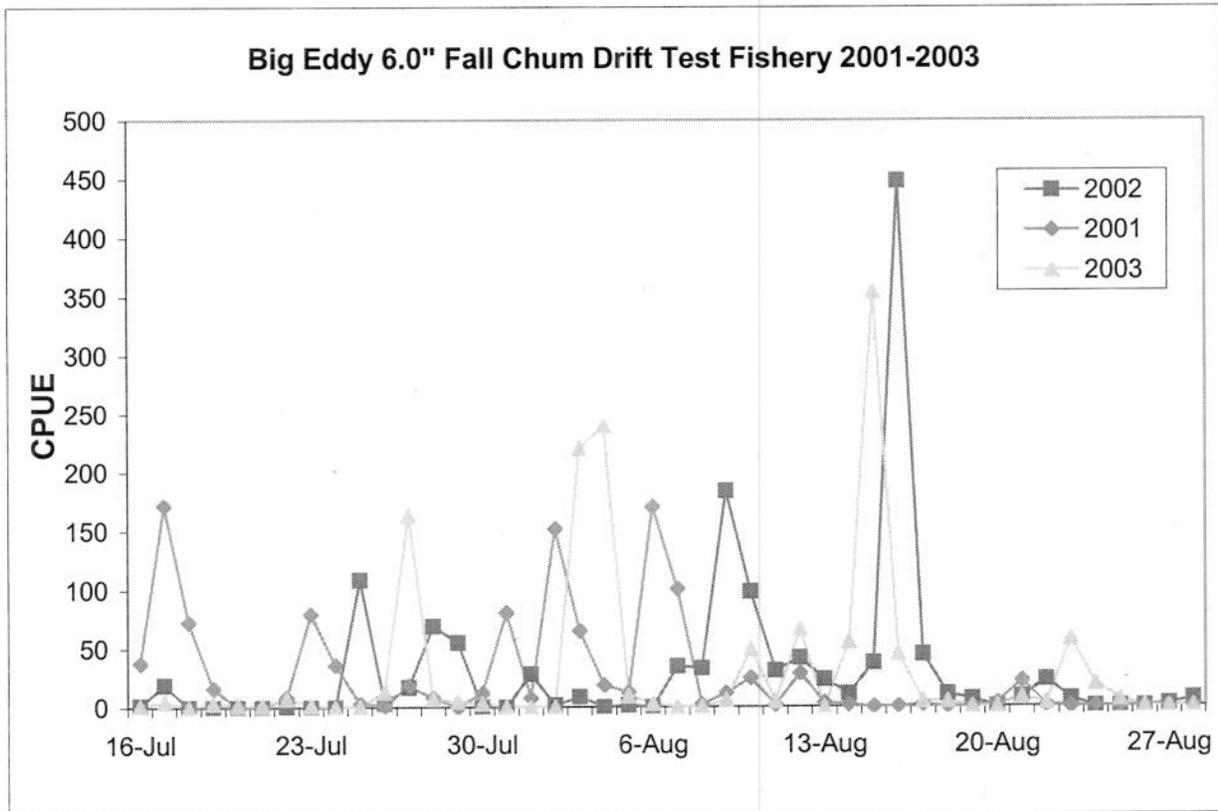


Figure 18. Big Eddy 6.0" fall chum salmon drift gillnet test fishery daily CPUE, 2001 through 2003.

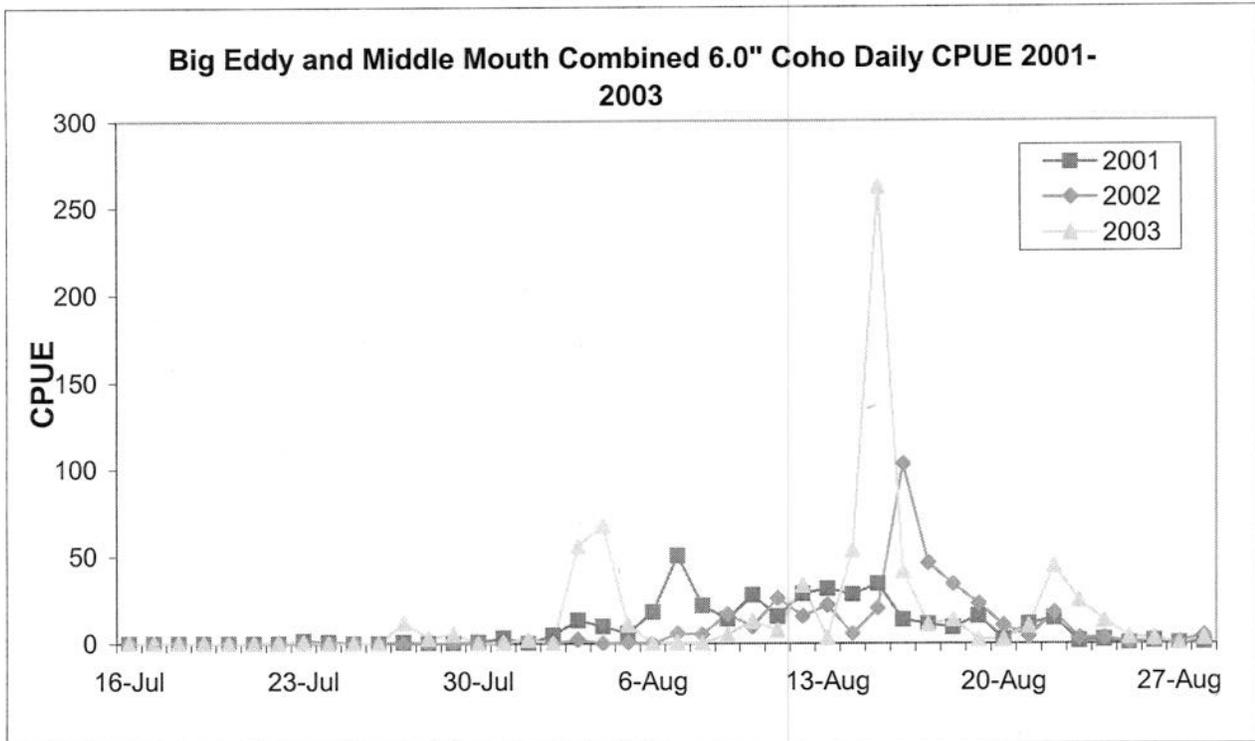


Figure 19. Lower Yukon 6.0" coho salmon drift gillnet test fishery, 2001 through 2003.

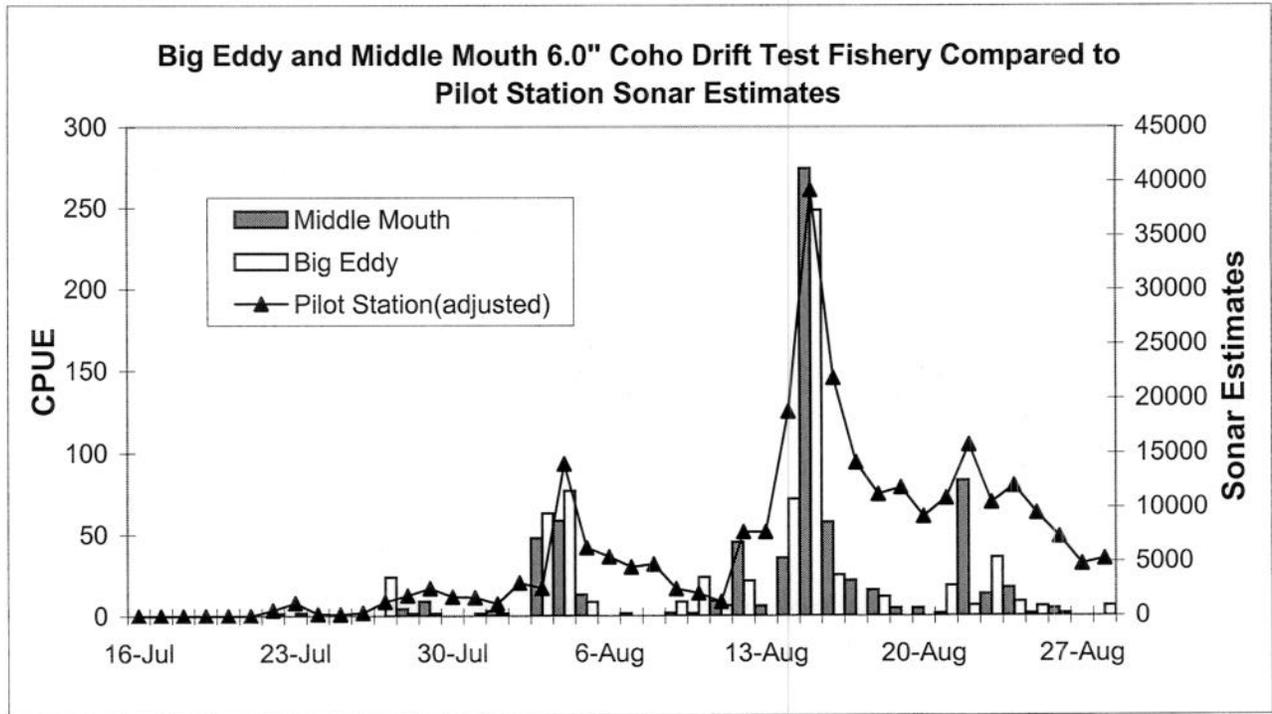


Figure 20. Daily CPUE for coho salmon from Middle Mouth and Big Eddy 6.0" fall drift gillnet test fishery, compared to Pilot Station sonar passage estimates, 2003.

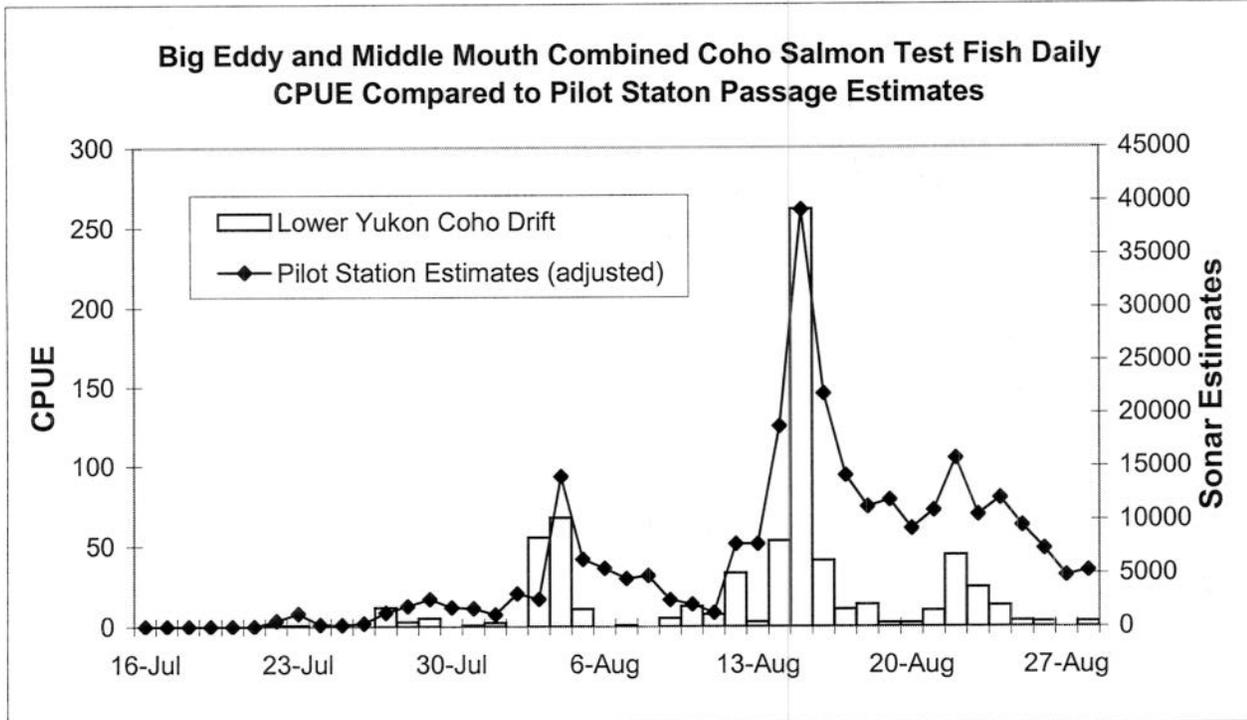


Figure 21. Combined daily CPUE for the Lower Yukon 6.0" drift gillnet test fishery compared to sonar passage estimates from Pilot Station adjusted for transit time, 2003.

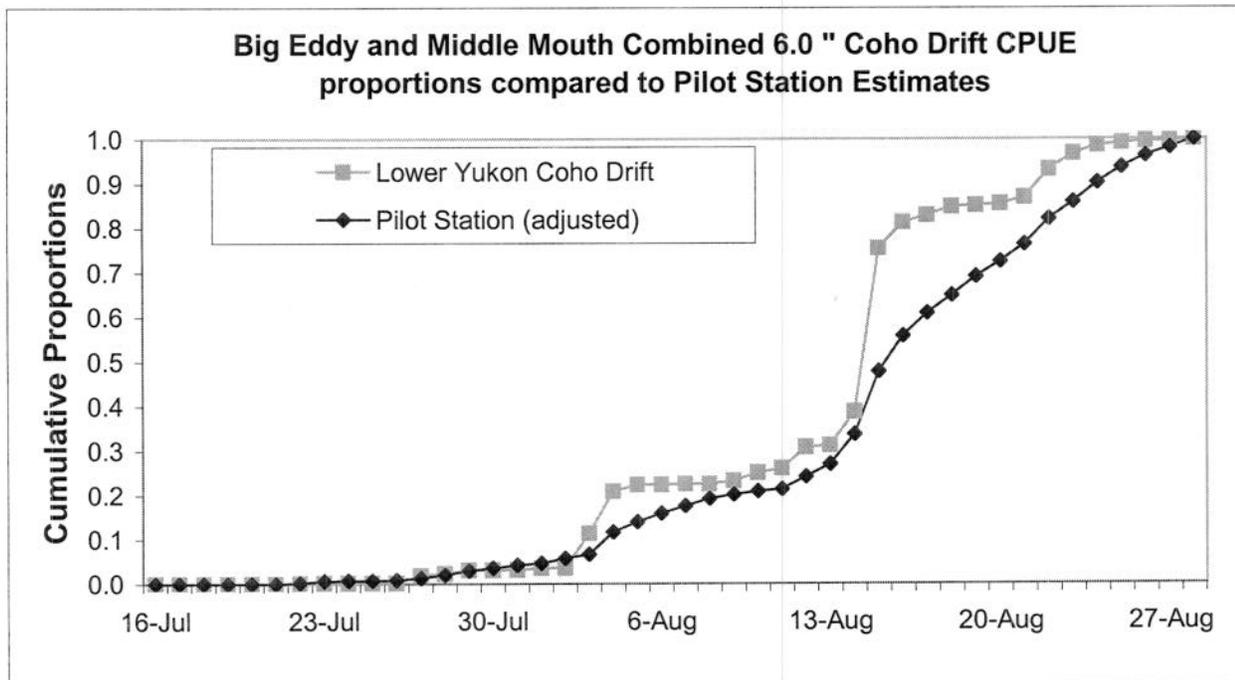


Figure 22. Proportions for the Lower Yukon 6.0" coho salmon drift gillnet test fishery compared to Pilot Station coho proportions adjusted for transit time, 2003.

APPENDIX A: LOWER YUKON DRIFT GILLNET TEST FISHERY SOAK TIMES, 2003.  
 Appendix A.1. Big Eddy and Middle Mouth drift gillnet test fishery soak times, 2003.

Big Eddy 8.25" drift gillnet chinook test fishery							Middle Mouth 8.25" drift gillnet chinook test fishery						
Date	Time 1	Time 2	Time 3	Time 4	Total	Chinook Catch	Date	Time 1	Time 2	Time 3	Time 4	Total	Chinook Catch
28-May	0.0	0.0	21.5	20.5	42.0	2							
29-May	23.5	18.5	18.5	18.0	78.5	2							
30-May	18.5	18.0	19.0	18.5	74.0	0							
31-May	17.5	17.5	18.5	18.5	72.0	2	31-May	0.0	0.0	19.5	19.5	39.0	4
1-Jun	18.5	24.5	18.0	19.5	80.5	4	1-Jun	19.5	18.5	0	0.0	38.0	0
2-Jun	19.0	19.5	28.5	18.5	85.5	6	2-Jun	18.5	19	18.5	19.0	75.0	0
3-Jun	34.5	18.0	18.0	20.0	90.5	0	3-Jun	19.5	19	22	21	81.5	0
4-Jun	15.5	19.5	18.0	18.0	71.0	1	4-Jun	20.00	20.5	20	20.5	81.0	2
5-Jun	18.5	18.0	18.0	19.5	74.0	0	5-Jun	19.5	20.0	21.0	19	79.5	4
6-Jun	19.0	20.0	17.5	18.5	75.0	6	6-Jun	20.0	21.5	19.5	20.0	81.0	8
7-Jun	17.5	18.5	18.0	21.5	75.5	0	7-Jun	19.5	19.5	19.0	18	76.0	4
8-Jun	24.5	21.0	29.0	18.5	93.0	3	8-Jun	18.0	20.5	18.5	19.5	76.5	2
9-Jun	20.5	18.0	19.0	18.5	76.0	1	9-Jun	19.5	20.5	18.5	20.0	78.5	1
10-Jun	18.0	17.5	17.0	18.5	71.0	2	10-Jun	23.0	20	21.5	20	84.5	1
11-Jun	19.5	23.5	20.5	26.0	89.5	51	11-Jun	20.0	19.5	21.5	19.5	80.5	7
12-Jun	19.5	17.5	18.5	20.0	75.5	17	12-Jun	32.5	20.0	27.0	20.0	99.5	36
13-Jun	0.0	0.0	18.5	19.5	38.0	1	13-Jun	44.0	22.5	20.5	20.5	107.5	26
14-Jun	19.0	20.5	18.0	22.0	79.5	28	14-Jun	19.5	19.5	19.0	30.0	88.0	5
15-Jun	18.5	20.5	18.0	22.0	79.0	29	15-Jun	0.0	0.0	22.0	18.5	40.5	5
16-Jun	19.0	20.0	0.0	0.0	39.0	3	16-Jun	19.5	20.0	0.0	0.0	39.5	0
17-Jun	25.0	18.5	18.5	19.5	81.5	26	17-Jun	0.0	0.0	22.5	19.5	42.0	2
18-Jun	19.5	19.0	19.0	18.0	75.5	2	18-Jun	19.0	20.5	21.0	19.0	79.5	3
19-Jun	19.0	20.0	19.0	19.0	77.0	9	19-Jun	18.5	18.0	21.0	19.0	76.5	4
20-Jun	20.5	20.5	20.0	19.5	80.5	23	20-Jun	18.0	18.0	24.0	18.5	78.5	6
21-Jun	19.0	21.0	0.0	0.0	40.0	4	21-Jun	19.5	18.5	0.0	0.0	38.0	3
22-Jun	26.5	19.0	18.5	19.5	83.5	12	22-Jun	23.5	19.5	21.0	20.5	84.5	25
23-Jun	17.5	18.5	19.5	20.5	76.0	8	23-Jun	21.0	18.5	18.0	19.0	76.5	5
24-Jun	20.5	21.0	18.5	24.0	84.0	26	24-Jun	22.0	22.0	19.5	19.5	83.0	16
25-Jun	19.0	20.0	18.0	18.0	75.0	3	25-Jun	19.0	19.0	19.5	19.0	76.5	2
26-Jun	20.0	18.5	0.0	0.0	38.5	4	26-Jun	23.5	19.5	0.0	0.0	43.0	7
27-Jun	0.0	0.0	21.0	18.5	39.5	5	27-Jun	20.5	19.0	18.5	18.0	76.0	0
28-Jun	19.0	21.5	24.0	16.5	81.0	6	28-Jun	19.0	20.0	0.0	0.0	39.0	0
29-Jun	0.0	0.0	24.5	18.0	42.5	8	29-Jun	19.0	18.5	19.0	19.0	75.5	4
30-Jun	22.0	19.5	18.5	18.0	78.0	6	30-Jun	0.0	0.0	21.5	19.0	40.5	5
1-Jul	17.0	18.0	18.0	19.0	72.0	0	1-Jul	19.5	19.5	19.0	20.0	78.0	3
2-Jul	20.0	18.0	0.0	0.0	38.0	3	2-Jul	18.5	19.0	0.0	0.0	37.5	0
3-Jul	0.0	0.0	18.5	17.5	36.0	0	3-Jul	20.0	20.0	19.5	19.5	79.0	0
4-Jul	19.0	18.0	19.0	18.0	74.0	2	4-Jul	0.0	0.0	18.5	22.0	40.5	1
5-Jul	18.0	17.5	18.5	18.5	72.5	1	5-Jul	19.5	19.0	21.0	18.0	77.5	4
6-Jul	18.0	18.0	18.5	19.0	73.5	0	6-Jul	19.5	19.5	18.5	19.5	77.0	2
7-Jul	18.0	18.0	0.0	0.0	36.0	0	7-Jul	19.5	20.0	0.0	0.0	39.5	0
8-Jul	19.0	19.0	18.0	18.0	74.0	0	8-Jul	19.5	19.0	0.0	0.0	38.5	0
9-Jul	19.0	19.0	18.0	17.5	73.5	0	9-Jul	19.5	22.0	19.0	19.0	79.5	1
10-Jul	19.0	19.0	21.5	18.5	78.0	0	10-Jul	19.5	20.5	19.0	19.0	78.0	0
11-Jul	19.0	19.5	19.5	19.0	77.0	0	11-Jul	20.5	18.0	18.0	18.0	74.5	2
12-Jul	0.0	0.0	18.5	20.5	39.0	0	12-Jul	18.0	18.0	18.0	18.0	72.0	0
13-Jul	21.0	18.5	19.5	19.5	78.5	0	13-Jul	19.0	19.5	18.0	18.0	74.5	0
14-Jul	18.5	20.5	19.0	18.5	76.5	0	14-Jul	18.0	18.0	18.0	18.0	72.0	0
15-Jul	20.5	20.5	20.0	19.5	80.5	1	15-Jul	18.0	18.0	0.0	0.0	36.0	0
Daily Average					69.2		Daily Average					68.2	
Drift Average			17.4		Catch Total	307	Drift Average		17.0			Catch Total	200

Continued

Big Eddy 5.5" drift gillnet summer chum test fishery							Middle Mouth 5.5" drift gillnet summer chum test fishery						
Date	Time 1	Time 2	Time 3	Time 4	Total	Chum Catch	Date	Time 1	Time 2	Time 3	Time 4	Total	Chum Catch
28-May	0.0	0.0	18.0	19.0	37.0	0							
29-May	18.0	21.0	18.0	18.5	75.5	0							
30-May	18.5	19.0	17.5	20.5	75.5	2							
31-May	17.5	19.0	19.0	18.0	73.5	0							
1-Jun	17.5	18.0	18.0	20.5	74.0	0	1-Jun	18.5	19.0	18.5	18.5	74.5	0
2-Jun	18.0	18.0	17.5	17.5	71.0	2	2-Jun	19.0	18.0	18.5	19.0	74.5	1
3-Jun	18.5	18.5	18.0	17.5	72.5	1	3-Jun	19.0	19.5	18.0	21.5	78.0	2
4-Jun	16.5	20.0	17.5	18.0	72.0	0	4-Jun	18.5	20.0	21.0	20.5	80.0	1
5-Jun	18.0	22.0	17.5	18.0	75.5	6	5-Jun	19.5	20.0	18.0	19.0	76.5	0
6-Jun	18.5	21.0	18.0	18.0	75.5	6	6-Jun	20.0	19.5	19.5	22.5	81.5	4
7-Jun	17.5	19.0	17.5	19.5	73.5	1	7-Jun	19.0	19.0	18.5	18.0	74.5	1
8-Jun	18.0	20.5	19.5	18.0	76.0	4	8-Jun	19.0	18.0	19.0	19.0	75.0	1
9-Jun	17.5	18.0	19.0	18.5	73.0	0	9-Jun	18.50	18.5	20.0	20.0	77.0	0
10-Jun	17.5	18.0	17.5	17.0	70.0	0	10-Jun	20.50	20.0	20.5	20.0	81.0	2
11-Jun	19.5	24.0	20.5	19.0	83.0	18	11-Jun	19.0	22.5	19.5	19.5	80.5	0
12-Jun	18.5	17.5	20.5	17.0	73.5	223	12-Jun	20.5	20.0	18.5	22.0	81.0	3
13-Jun	0.0	0.0	19.5	18.0	37.5	60	13-Jun	23.0	21.0	21.0	19.0	84.0	17
14-Jun	19.0	21.5	18.0	23.5	82.0	74	14-Jun	19.5	19.5	20.0	20.0	79.0	1
15-Jun	18.5	20.5	19.5	19.5	78.0	55	15-Jun	0.0	0.0	20.5	19.0	39.5	2
16-Jun	19.5	21.0	0.0	0.0	40.5	41	16-Jun	19.5	19.5	0.0	0.0	39.0	1
17-Jun	18.0	18.5	18.5	21.0	76.0	37	17-Jun	0.0	0.0	23.5	19.0	42.5	2
18-Jun	19.0	19.5	18.0	19.0	75.5	0	18-Jun	20.0	21.0	20.0	21.5	82.5	1
19-Jun	18.5	20.5	19.5	20.0	78.5	44	19-Jun	20.0	18.5	23.5	22.0	84.0	12
20-Jun	19.5	20.5	21.5	21.0	82.5	111	20-Jun	18.0	18.0	20.5	17.5	74.0	3
21-Jun	21.0	20.0	0.0	0.0	41.0	38	21-Jun	20.0	18.0	0.0	0.0	38.0	5
22-Jun	20.5	20.0	18.5	18.0	77.0	1	22-Jun	22.0	20.5	18.5	21.0	82.0	18
23-Jun	17.5	18.0	18.0	17.5	71.0	1	23-Jun	18.5	19.0	19.5	19.0	76.0	2
24-Jun	28.0	27.0	15.0	15.0	85.0	190	24-Jun	20.0	20.0	19.5	20.0	79.5	17
25-Jun	19.0	21.0	18.0	16.5	74.5	16	25-Jun	18.0	18.0	19.0	19.0	74.0	0
26-Jun	0.0	0.0	22.0	19.0	41.0	24	26-Jun	19.5	20.0	0.0	0.0	39.5	2
27-Jun	0.0	0.0	22.0	18.0	40.0	19	27-Jun	20.0	19.0	20.0	18.5	77.5	1
28-Jun	19.0	39.5	14.5	24.5	97.5	79	28-Jun	20.0	18.0	0.0	0.0	38.0	3
29-Jun	0.0	0.0	24.0	19.0	43.0	18	29-Jun	25.5	18.5	20.0	19.5	83.5	63
30-Jun	15.0	23.5	19.5	14.5	72.5	181	30-Jun	0.0	0.0	12.0	19.0	31.0	19
1-Jul	18.0	18.5	18.5	18.0	73.0	1	1-Jul	21.5	21.0	19.5	19.0	81.0	25
2-Jul	16.5	24.0	0.0	0.0	40.5	48	2-Jul	20.5	18.5	0.0	0.0	39.0	6
3-Jul	0.0	0.0	21.0	17.5	38.5	14	3-Jul	20.5	21.0	21.0	19.0	81.5	18
4-Jul	24.0	19.0	18.0	18.0	79.0	13	4-Jul	0.0	0.0	21.0	19.0	40.0	6
5-Jul	17.5	19.0	19.0	19.5	75.0	5	5-Jul	22.0	19.5	25.5	17.5	84.5	73
6-Jul	20.0	17.5	19.5	19.0	76.0	3	6-Jul	20.5	19.0	19.0	19.0	77.5	5
7-Jul	18.0	18.0	0.0	0.0	36.0	0	7-Jul	19.5	20.0	0.0	0.0	39.5	0
8-Jul	19.0	19.0	18.0	18.0	74.0	0	8-Jul	20.0	19.5	0.0	0.0	39.5	3
9-Jul	19.0	19.0	20.0	18.5	76.5	12	9-Jul	21.0	19.5	22.5	24.5	87.5	32
10-Jul	21.0	18.0	20.0	19.0	78.0	80	10-Jul	21.0	19.5	20.0	19.0	79.5	2
11-Jul	18.0	23.5	19.5	19.5	80.5	19	11-Jul	26.0	18.5	23.0	20.0	87.5	87
12-Jul	0.0	0.0	18.5	19.0	37.5	0	12-Jul	20.0	18.5	18.5	18.0	75.0	17
13-Jul	18.5	19.5	19.0	19.0	76.0	2	13-Jul	18.5	17.5	18.0	18.0	72.0	3
14-Jul	22.0	19.0	19.0	18.5	78.5	28	14-Jul	18.0	18.0	19.5	19.0	74.5	6
15-Jul	21.0	19.0	19.5	18.5	78.0	2	15-Jul	19.0	18.0	0.0	0.0	37.0	4
Daily Average					68.8		Daily Average					68.3	
Drift Average			17.2	Catch Total		1,479	Drift Average			16.9	Catch Total		471

Continued

Big Eddy 6.0" drift gillnet fall test fishery								Middle Mouth 6.0" drift gillnet fall test fishery							
Date	Time 1	Time 2	Time 3	Time 4	Total	Fall Chum Coho		Date	Time 1	Time 2	Time 3	Time 4	Total	Fall Chum Coho	
						Catch								Catch	
16-Jul	19.5	20.0	19.0	19.5	78.0	1	0	16-Jul	27.0	19.0	17.5	18.5	82.0	41	0
17-Jul	19.0	19.0	19.5	18.5	76.0	3	0	17-Jul	19.0	19.5	23.0	20.0	81.5	26	0
18-Jul	18.0	18.0	18.0	17.5	71.5	0	0	18-Jul	20.0	19.0	18.0	18.0	75.0	2	0
19-Jul	14.5	24.5	19.0	19.5	77.5	3	0	19-Jul	19.0	19.0	18.0	18.0	74.0	0	0
20-Jul	18.5	18.0	17.5	18.5	72.5	1	0	20-Jul	19.0	20.5	18.0	19.5	77.0	1	0
21-Jul	17.5	18.5	18.0	17.5	71.5	1	0	21-Jul	19.5	22.0	21.5	19.5	82.5	32	0
22-Jul	19.5	19.0	19.0	18.0	75.5	5	1	22-Jul	17.5	17.5	23.0	26.5	84.5	58	0
23-Jul	18.0	18.0	18.0	18.0	72.0	1	1	23-Jul	23.5	20.0	18.0	19.5	81.0	20	0
24-Jul	17.5	18.0	18.0	18.0	71.5	0	0	24-Jul	20.5	20.0	17.5	21.0	79.0	13	0
25-Jul	18.5	18.0	18.0	18.0	72.5	0	0	25-Jul	19.0	20.0	18.0	18.5	75.5	3	0
26-Jul	19.0	19.5	18.5	18.5	75.5	8	0	26-Jul	19.0	18.5	18.5	19.0	75.0	0	0
27-Jul	0.0	0.0	22.0	25.0	47.0	66	9	27-Jul	17.5	18.5	19.5	18.0	73.5	4	0
28-Jul	21.0	19.5	18.5	19.5	78.5	5	1	28-Jul	22.0	26.5	20.5	23.0	92.0	35	4
29-Jul	19.5	21.0	20.5	19.0	80.0	3	1	29-Jul	16.5	30.0	20.0	20.0	86.5	26	6
30-Jul	20.0	21.0	19.0	18.5	78.5	2	0	30-Jul	0.0	0.0	18.0	18.0	36.0	0	0
31-Jul	19.0	19.0	19.0	19.0	76.0	0	1	31-Jul	17.5	18.0	18.0	18.0	71.5	1	0
1-Aug	19.0	18.5	18.5	19.0	75.0	0	1	1-Aug	18.5	18.5	19.5	19.0	75.5	6	2
2-Aug	19.0	18.5	19.0	19.5	76.0	0	0	2-Aug	18.0	18.0	19.0	20.0	75.0	1	0
3-Aug	23.0	19.5	26.5	10.5	79.5	154	55	3-Aug	18.5	21.5	21.0	18.5	79.5	125	33
4-Aug	20.0	32.0	16.0	27.5	95.5	168	48	4-Aug	22.5	27.0	20.0	24.5	94.0	91	41
5-Aug	19.0	18.5	19.0	18.5	75.0	6	5	5-Aug	20.5	18.5	19.5	18.0	76.5	15	9
6-Aug	19.0	20.0	18.5	18.5	76.0	2	0	6-Aug	18.0	18.0	20.5	18.0	74.5	0	0
7-Aug	19.0	18.5	18.5	18.0	74.0	0	0	7-Aug	18.0	18.0	18.5	19.5	74.0	0	1
8-Aug	18.5	20.0	19.0	18.5	76.0	0	0	8-Aug	18.5	18.0	20.5	18.0	75.0	0	0
9-Aug	20.0	21.5	19.5	20.0	81.0	4	6	9-Aug	18.5	18.5	18.5	18.0	73.5	0	1
10-Aug	19.5	19.5	21.0	22.5	82.5	36	17	10-Aug	18.0	21.0	18.5	18.5	76.0	1	1
11-Aug	20.0	19.0	19.0	18.0	76.0	3	4	11-Aug	15.5	19.0	20.0	21.0	75.5	1	6
12-Aug	0.0	0.0	18.0	21.0	39.0	41	14	12-Aug	18.5	20.5	21.0	20.0	80.0	41	30
13-Aug	18.5	20.5	21.5	17.5	78.0	2	0	13-Aug	19.0	20.0	19.5	18.5	77.0	0	2
14-Aug	18.5	20.5	21.5	17.5	78.0	35	51	14-Aug	19.5	18.5	20.0	19.0	77.0	35	22
15-Aug	5.0	9.5	20.5	16.5	51.5	94	74	15-Aug	14.5	0.0	11.0	15.0	40.5	40	64
16-Aug	21.0	16.5	19.0	18.5	75.0	19	11	16-Aug	16.5	20.5	18.5	11.5	67.0	19	18
17-Aug	17.5	21.0	18.5	18.5	75.5	3	0	17-Aug	19.5	20.0	26.0	17.5	83.0	11	17
18-Aug	19.0	18.0	20.5	18.0	75.5	3	8	18-Aug	19.5	19.0	18.5	20.0	77.0	3	10
19-Aug	18.0	18.0	18.0	18.0	72.0	0	0	19-Aug	19.0	20.0	19.0	19.0	77.0	0	3
20-Aug	18.5	18.5	18.5	18.5	74.0	0	0	20-Aug	19.0	18.5	19.5	18.0	75.0	3	3
21-Aug	19.0	19.0	20.0	16.0	74.0	5	12	21-Aug	19.0	19.0	18.5	20.0	76.5	0	1
22-Aug	19.0	19.0	18.5	17.5	74.0	2	4	22-Aug	21.0	17.5	16.5	19.5	74.5	25	52
23-Aug	20.0	18.0	23.5	21.5	83.0	43	27	23-Aug	20.0	21.0	20.0	20.0	81.0	10	11
24-Aug	19.0	23.0	19.0	18.5	79.5	13	6	24-Aug	18.0	19.0	16.5	19.5	73.0	10	12
25-Aug	0.0	0.0	20.0	17.0	37.0	2	2	25-Aug	0.0	0.0	19.0	18.5	37.5	0	1
26-Aug	18.0	18.5	18.0	18.0	72.5	0	1	26-Aug	19.5	19.0	19.0	19.5	77.0	3	3
27-Aug	0.0	0.0	18.0	18.5	36.5	0	0	27-Aug							
28-Aug	0.0	0.0	18.5	19.0	37.5	0	2	28-Aug							
Daily Average					71.7			Daily Average					75.0		
Drift Average			17.9	Catch Total		734	362	Drift Average			18.7	Catch Total		702	353

APPENDIX A.2: LOWER YUKON DRIFT GILLNET TEST FISHERY CATCH DISTRIBUTION, 2003.

Appendix A.2. Species captured, retained, and released during the lower Yukon drift gillnet test fishery summer and fall seasons, 2003.a

Species	Big Eddy			Middle Mouth			Total			
	Chinook	S. Chum	F. Chum	Chinook	S. Chum	F. Chum	Chinook	S. Chum	F. Chum	Coho
Fish released unharmed	204	110	74	115	115	115	319	225	189	80
Test fish sales	31	30	0	0	0	0	31	30	0	0
Fish discarded	0	0	0	12	18	0	12	18	0	0
Test fish donated locally	267	1,455	660	107	346	587	374	1,801	1,247	635
Total catch	502	1,595	734	234	479	702	736	2,074	1,436	715

<sup>a</sup> Chinook and summer chum catches include fish caught in both 5.5" and 8.25" gear so catch totals are larger than in tables 1 and 3.