Data Summary for the Kuskokwim River Salmon Test Fishery at Bethel, 1984-2002

By

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TABLE OF CONTENTS

LIST OF TABLES iv

LIST OF FIGURES v

INTRODUCTION 1

Fishery Description 1

Commercial Fishery 2

Subsistence Fishery 3

Project Background 3

METHODS 5

Field Operations 5

Test Fishing Index 6

RESULTS 7

DISCUSSION 8

LITERATURE CITED 9

TABLES 10

FIGURES 37

LIST OF TABLES

Table Page

1. Historical river stage (in feet) of the Kuskokwim River at Crooked Creek, 1984 through 2002. (Source: U.S. Geological Survey and National Weather Service) 10

2. Historical daily water clarity measurements of the Kuskokwim River at the Bethel test-fish site, 1984-2002 12

3. Historical daily surface water temperature of the Kuskokwim River at the Bethel test-fish site, 1984-2002 14

4. Historical daily CPUE for chinook salmon catches in the Bethel test fishery, 1984-2002 16

5. Historical cumulative daily CPUE for chinook salmon catches in the Bethel test fishery, 1984-2002 18

6. Historical cumulative daily percent passage of chinook salmon in the Bethel test fishery, 1984-2002 20

7. Historical daily CPUE for sockeye salmon catches in the Bethel test fishery, 1984-2002 22

8. Historical cumulative daily CPUE for sockeye salmon catches in the Bethel test fishery, 1984-2002 24

9. Historical cumulative daily percent passage of sockeye salmon in the Bethel test fishery, 1984-2002 26

10. Historical daily CPUE for chum salmon catches in the Bethel test fishery, 1984-2002 28

11. Historical cumulative daily CPUE for chum salmon catches in the Bethel test fishery, 1984-2002 30

12. Historical cumulative daily percent passage of chum salmon in the Bethel test fishery, 1984-2002 32

13. Historical daily CPUE for coho salmon catches in the Bethel test fishery, 1984-2002 34

14. Historical cumulative daily CPUE for coho salmon catches in the Bethel test fishery, 1984-2002 35

15. Historical cumulative daily percent passage of coho salmon in the Bethel test fishery, 1984-2002 36

LIST OF FIGURES

Figure ..... Page

1. Kuskokwim salmon management area. 37

2. Kuskokwim Management Area, District W-1. 38

3. Project site of the Bethel test fishery: station 1,2, and 3. 39

4. Typical profile of the Kuskokwim River 4 miles upstream of Bethel illustrating the area covered by gillnets used in the Bethel test fishery. The profile depicted was measured in 1995 40

INTRODUCTION

The primary objective of salmon management is to provide for sustained harvest by regulating annual harvest in such a way as to ensure adequate spawning escapement (Burkey et al. 1999). Successful management requires accurate and timely knowledge about migratory timing, run strength, and escapement levels. These information needs are obtained for Kuskokwim River salmon management by a variety of information sources, one of which is the Bethel test fishery. Test fishery results are used by managers to assess run timing and as a relative index of salmon abundance at the Bethel test-fish site. The test fishery should not be used as an index of escapement or total run abundance because of the unknown and variable implications of harvest that occurs both upstream and downstream of the test fishery. The test fishery does serve as a reasonable index of commercial harvest upstream of the test-fish site, but it is not a good predictor of harvest downstream of the test-fish site.

As an index of abundance, comparison of test-fish catch or catch per unit of effort (CPUE) data between years is affected by many factors, such as water level and clarity, weather, river channel and hydrology, fish size relative to gillnet mesh size, net saturation effects, and crew technique, among others. Therefore, caution should be exercised when attempting to interpret these data. This report provides a data summary for the Bethel test fishery, 1984-2002, as is made available and used during the fishing season. This includes river stage, water clarity, and water temperature information as well as CPUE data by day for chinook *Oncorhynchus tshawytscha*, sockeye *O. nerka*, chum *O. keta* and coho *O. kisutch* salmon. A more in-depth analysis and reporting of data from the Bethel test fishery can be found, most recently, in Molyneaux (1994).

Fishery Description

Stocks of chinook, sockeye, chum and coho salmon returning to the Kuskokwim River are subjected to periodic commercial and subsistence fishing when in the river basin. Commercial fishing is directed primarily at chum and coho salmon, while chinook salmon are often the principal target of subsistence fishers. Because of management concerns, chinook salmon have not been subjected to a directed commercial fishery since 1987; however, substantial numbers of this species are caught incidentally during the commercial chum salmon fishery (Burkey et al. 1999). Sockeye salmon are generally less abundant in the Kuskokwim River than chum and coho salmon and commercial catches of sockeye salmon are considered incidental. Harvests of pink salmon *O. gorbuscha* are negligible in part because of the gillnet mesh sizes typically used by commercial and subsistence fishers are large enough to avoid capture.

Commercial Fishery

Commercial salmon harvests in the Kuskokwim River occur in two districts (Figure 1). District 1, the lower Kuskokwim, is 220 km (137 mi.) in length and extends from the mouth of the river to Bogus Creek. District 1 is divided into four subdstricts, or statistical areas, (335-11, 335-12, 335-13 and 335-14) which partition the district into segments of approximately equal length (Figure 2).[2] District 2, the middle Kuskokwim, is 113 km (60 mi.) in length and extends from High Bluffs to Chuathbaluk. District 2 consists of only one statistical area (335-20). Districts 1 and 2 are separated by a section of river approximately 80 km (50 mi.) in length, which is closed to commercial fishing. All waters upstream of District 2 are also closed to commercial fishing.

Drift gillnets are the principal commercial gear type used in the Kuskokwim River, but set gillnets are also legal. The mesh size used in the fishery is restricted to 6 inch (15.2 cm) or smaller. This mesh restriction has been imposed since 1985 in an attempt to improve then-declining chinook salmon escapements (Burkey et al. 1999). Most common mesh sizes used range from 5 ¼ to 6 inches.(or you say: Mesh sizes ranging from 5 ¼ to 6 inches are most commonly used.)

Kuskokwim Area commercial fishermen can fish in any district in the area, but most effort is concentrated in District 1, especially statistical area 335-12, which is immediately downstream of the Bethel test fishing site. Commercial catch data from the two upriver statistical areas (335-13 and 335-14) are generally thought to underestimate the actual catch from these locations because fish caught in these statistical areas are often delivered to buying stations in Bethel (statistical area 335-12) where they may be subject to the incorrect assumption of being caught in statistical area 335-12 by persons completing fish tickets.

District 1 has supported as many as 679 units of gear during a single commercial fishing period (Burkey et al. 1999). This amount of gear probably results in a saturated fishing district. This conclusion is supported by observations that most of the harvest occurs within the first 3 to 4 hours of the normal 6 or 8-hour opening (Huttunen 1988). Commercial fishing periods also typically result in depressed test fishing catches for 1 to 2 days following each opening. In more recent years, however, effort has been declining because of lower run abundance and reduced profitability (Buklis 1999 and Burkey et al. 2002). This change in the nature of the commercial fishery needs to be factored into interpretation of the Bethel test-fish index.

[2] Before 1990 District 1 was divided into only three statistical areas (335-11, 335-12 and 335-13). In 1990 the statistical area farthest downstream (335-11) was divided in half. The numbering of all four statistical areas was then reordered to 335-11 and 335-12 (formerly 335-11), 335-13 (formerly 335-12) and 335-14 (formerly 335-13).

Subsistence Fishery

Alaska state law mandates that subsistence uses have priority over other uses of the fisheries resources (AS 16.05.258). In the Kuskokwim Area subsistence is a prominent and vital element to the local way of life. The subsistence salmon fishery is especially important along the Kuskokwim River, a point supported by the fact that the number of chinook taken from the river for subsistence purposes is often greater than the number taken commercially (Burkey et al. 2002). This pattern was even true before 1987 when there was a commercial fishery directed at chinook salmon harvest.

The types of gear used by subsistence fishers are generally similar to the gear used for commercial fishing. However, set gillnets are more prevalent in the subsistence fishery, and mesh size is not restricted. In June many subsistence fishers use mesh sizes of 8.0 to 8.5 inch (20 to 22 cm) to target chinook salmon (Francisco et al. 1995).

Subsistence fishing occurs throughout the Kuskokwim River, including many of the major spawning tributaries, but over half of all reported subsistence harvest occurs in that portion of District 1 located downstream of the Bethel test fishery (Burkey et al. 1999). By regulation, subsistence fishing in District 1, and between Districts 1 and 2, is closed 16 hours before, during, and 6 hours after each District 1 commercial fishing period. Kuskokuak Slough is an exception to the regulation in that subsistence fishing in the slough may begin as soon as the commercial fishing period is over; i.e., no 6-hour delay. The slough is also closed to commercial fishing. In District 2 the subsistence fishery is closed 16 hours before, during, and 6 hours after each District 2 commercial fishing period. Upstream of District 2, subsistence fishing is typically open 7 days a week with no regularly scheduled closures.

Project Background

From 1966 through 1983 the Alaska Department of Fish and Game (ADF&G) conducted a set gillnet test fishery in the lower reach of the Kuskokwim River near an abandoned fish camp called Kwegooyuk (Huttunen 1984). At that site the river ranged from approximately 5 to 7 km in width and had a major channel along both the east and west shores. Soft sandy shoals mostly flooded at high tide separated the channels. Relief along the shore is so minimal that at high tide the horizon is formed by the sky and water much like occurs when looking out at the open ocean. In this expansive body of water, the Kwegooyuk test fishing gillnets, 49 m in length, were set from the east shore just upstream of the lower boundary of District 1 and fished 24 hours a day.

The goals of the Kwegooyuk test fishery were to estimate run timing and index abundance of chinook, sockeye, and chum salmon, much like the present day Bethel test fishery. The Kwegooyuk project is thought to have adequately estimated run timing, but it was not able to satisfactorily index run abundance. This problem was attributed to fluctuations in the preferred migratory route of salmon as influenced inseason by changes in weather patterns, and between seasons by alterations in the cross-sectional profile of the channel (Huttunen 1984). Indeed, according to local residents,

changes in the channel profile are so profound that every few years commercial barge traffic must switch between the west and east channels as one channel becomes shallower and the other deepens. The remoteness of the test fishing location also made the sale of the daily test fishing catches difficult or impossible, a problem that often resulted in unavoidable wastage that was not acceptable to ADF&G, local residents, or the industry.

Efforts to redesign the test fishing program to improve abundance indexing and provide for proper disposition of the catch began in July of 1983. The focus was on the use of drift gillnets in a narrower river channel near Bethel (Huttunen 1984). The objectives of the 1983 drift gillnet test fishery were to assess feasibility related to collecting run timing and abundance information for coho salmon. The new site was in the main stem Kuskokwim River about 5 km (3.5 mi.) upstream from Bethel, just above the boundary line separating current statistical areas 335-12 and 335-13. The river was approximately 1 km wide at the new location and had a single major channel that allowed drift gillnets to collect accurate CPUE data at selected stations across the entire channel width. Four small channels circumvent the site (Straight, Steamboat, Church, and Napaskiak Sloughs), but their influence on the test fishery was assumed to be negligible. The new test-fish location was also convenient to outlets for the timely distribution and sale of daily catches. The conclusion from the feasibility study was that the drift gillnet test fishery at Bethel was viable and offered a more reliable means of monitoring salmon run timing and abundance than the Kwegooyuk test fishery. The Kwegooyuk set gillnet program was then discontinued after 1983 and replaced with a multiple-mesh drift gillnet project referred to as the Bethel test fishery (Huttunen 1985).

Relocation of the test fishery to a point upriver of most commercial and subsistence harvest meant that instead of indexing total run abundance, as was the objective of the Kwegooyuk test fishery, the Bethel test fishery indexes abundance of salmon at a point mid way in the fishing district. This distinction is important because the down river commercial and subsistence harvests are not accounted for in the Bethel test fishing index. Moreover, the exploitation rate of the commercial fishery is probably inconsistent because of changes in gear efficiency, changes in regulations designed to alter harvest efficiency, variability in fishing pattern (length of openings and frequency of openings), changes in water level, variability in the synchrony of openings with the entry pattern of salmon, the occurrence of fisher strikes, etc. Many of these same variables confound the inter-annual comparability of historic test-fish data, by reducing the ability of the project to accurately and consistently index total run abundance and to clearly index escapement. Instead, the Bethel test fishing data is more appropriate used as an index of salmon passage at Bethel. Taken within the context of these limitations, the Bethel test fishery provides timely and useful insights of benefit to salmon management.

METHODS

Field Operations

Methods and location used in the Bethel test fishery have had only minor modifications over the years since 1984. Following each high tide a series of gillnet drifts are conducted in the Kuskokwim River about 5 km (3.5 mi.) upstream from Bethel. Drifts are performed by a two-person crew, or in some years, by one of two alternating two-person crews, using a 6.1 m (20 ft) skiff and 50 fathom (90 m) gillnets. On occasion, a third person may accompany the crew particularly if weather or fish abundance make conditions especially challenging. Each series of drifts begin about 1 hour after the published high slack tide for Bethel, which ensures that all drifts are conducted in water flowing downstream. The onset of drifting may begin later if weather conditions cause a delay in the ebbing of the tide. Nets are deployed near where the upstream end of Straight Slough diverges from the main channel, and each drift is conducted at one of three stations distributed across the width of the channel (Figure 3). The duration of each drift is approximately 20 minutes and the mean fishing time is calculated as half the time it takes to both deploy and retrieve the net, plus the time the net is fully deployed. River distance traversed by each drift varies depending on water and channel conditions but the distance is generally less than 3 km (2 mi.). To avoid impacting commercial fishers, the test fishery is not conducted when commercial fishing is in progress in statistical area 335-13.

The river channel is typically on the order of 12 m (36 ft) deep and 320 m (1,050 ft) wide as measured near the down-river end of the test fishing site (Figure 4). Gillnets used in the test fishery generally sample the upper half of the water column; however, at station I the inshore end of the net drags along a section of sand bar. At station III the inshore end of the net is deployed approximately 8 m (24 ft) offshore to avoid snags along the channel edge. As the station III drift progresses, it typically moves towards the center of the channel and may overlap with station II.

Test fishing begins in early June and continues through late August. Two different mesh sizes are used through mid-July; the first two drifts of each tide are conducted with 8-inch (20.3 cm) stretched mesh gillnets, and the following two drifts are performed with 5-3/8-inch (13.6 cm) mesh. Larger mesh is more effective with larger chinook salmon, whereas smaller mesh is more effective on smaller chinook and other salmon species. For each tidal drift series, one of six unique permutations from a repeating fishing schedule is used to determine which mesh size will be fished at each station (Molyneaux 1994). The result is no station is fished with the same mesh size twice during a single tide. However, this design dictates one station is fished twice each tide; first with 8-inch gear then with 5-3/8-inch gear. The two remaining stations are each fished only once, one station with the 8-inch gear and the other station with the 5-3/8-inch mesh. The station fished twice and the station missed by a given mesh size varies with the fishing schedule. This design is the result of time and fiscal constraints, but is consistent across the years.
The 8-inch and 5-3/- inch mesh gillnets are 50 fathoms in length and about 6 and 5 m deep, respectively. The webbing is manufactured by Nagura Net Company[3] and hung at a 2:1 ratio. The 8-

[3] Use of a company's name does not constitute endorsement.

inch mesh webbing is made of 225d #24 twine and is 35 meshes deep by 105 fathoms long; the color code is NG80 (light green). The 5-3/8-inch webbing is made of 225d #18 twine and is 45 meshes deep by 105 fathoms long; the color code is NG45 (light green).

By mid-July of each year the chinook salmon migration in the lower Kuskokwim River is essentially over, so use of the larger 8-inch mesh net is discontinued for the remainder of the season. Until 1990 four drifts continued to be conducted at the three stations after mid-July even though only the 5-3/8-inch mesh gillnet was in use. The random fishing schedule was used to determine the drift sequence and the station that received the duplicate drift. Results of the duplicated drifts were averaged. However, Molyneaux (1991) found the duplicated fourth drift was unnecessary and therefore was discontinued beginning in 1990. The fishing schedule was adjusted accordingly.

The catch for each drift is tallied by species and by station. Weather conditions, water temperature and water clarity data are also recorded during the first drift of each tide. At the end of each series of drifts the catch is sold to a local processor or on occasion donated to charities or individuals desiring the fish for subsistence purposes. The data are recorded in the office log and entered into a computer program for analysis.

Test Fishing Index

Actual salmon catch for each drift is converted to CPUE to enhance the comparability of catch results. This is accomplished by converting differences in net length and mean fishing time of each drift to the number of fish caught by 180 m (100 fathoms) of net fished for 60 minutes. This standard net length and fishing time is used in many gillnet test fisheries conducted by ADF&G (Meacham 1978; Waltemeyer 1983). Each drift CPUE (I) is computed as:

$$I = (100 fathoms)\ (60 minutes)\ C\ (L\ T)^{-1}, \qquad (1)$$

where C is the catch of each species in numbers of fish, L is the length of net used in fathoms, and T is the mean fishing time in minutes.

For each tide the drift CPUE's are averaged over all stations to calculate a mean tidal CPUE index (I_i) for each species:

$$I_i = n^{-1} \left(\sum_{j=1}^{n} I_{ij} \right), \qquad (2)$$

where I_{ij} is the drift CPUE index from drift j on tide i, and n is the number of applicable drifts. For chinook salmon the mean is calculated using the drift CPUE's from both 8 inch and 5-3/8 inch nets with each drift and mesh size weighted equally ($n = 4$). In contrast, only catches in the 5-3/8 inch

mesh nets are used to calculate mean tidal CPUE's for sockeye, chum and coho salmon ($n = 2$ through mid-July and $n = 3$ after mid-July).

If a tide was not fished by the test fishing crew then an estimated mean tidal CPUE is calculated using one of two methods. First, if the tide was missed because of a commercial fishing period, the mean tidal CPUE for the missed tide is assumed to be equal to the CPUE of the next tide fished. Second, if the missed tide was not affected by commercial openings, the estimate is assumed to be an average of the preceding and following mean tidal CPUE's. In either situation, if test-fish indices demonstrate strong differences in abundance between low high tide and high high tide, then tides not fished may be estimated with indexes from tides of corresponding magnitude; e.g., if a high high tide is missed, it will be estimated with data from other high high tides.

Actual and estimated mean tidal CPUE's are summed by species throughout the season to generate a cumulative CPUE index (I) for the season:

$$I = \sum_{i=1}^{n} I_i, \qquad (3)$$

where n is the total number of tides that were fished or for which CPUE was estimated throughout the season.

RESULTS

The purpose of this report is to provide, in a readily retrievable report format, a data summary for the Bethel test fishery, 1984-1999. A more in-depth analysis and reporting of data from the Bethel test fishery can be found, most recently in Molyneaux (1994).

Tables 1-3 present Kuskokwim River water depth, clarity, and temperature data, respectively, by day. Tables 4-6 present mean daily CPUE, cumulative mean daily CPUE, and cumulative proportion of season total CPUE, respectively, by day for chinook salmon. Similar information follows for sockeye salmon (Tables 7-9), chum salmon (Tables 10-12), and coho salmon (Tables 13-15).

Test fishing data tables presented here are used during the fishing season to provide information on salmon run timing and relative abundance at the test-fish site, in conjunction with subsistence and commercial fishery catch information, spawning escapement estimates, and other information sources. ADF&G and the Kuskokwim River Salmon Management Working Group (KRSMWG) use this information collectively in the management of the Kuskokwim River salmon fisheries.

DISCUSSION

Bethel test fishery is a useful tool for Kuskokwim River salmon managers, however the results are not as simple to interpret as may be expected of a numeric index. Numerous influences confound interpretation of the test-fish index, and one must realize and account for these limitations if the tool is to be interpreted and used effectively to assess run timing and abundance. One of the factors influencing the ability of the Bethel test fishery to estimate abundance and run timing is the temporal distribution of salmon harvest downstream of the test-fish site. Disproportionately high or low harvest during any segment of the run will skew interpretations of whether the overall run abundance is strong, average or weak, and whether the run timing is average, early, or late. Wide fluctuations in water level may also skew the perceived abundance and run timing within or between years by altering the catchability of a species as the season progresses. For some species, such as chum salmon, the change of average size of fish over the course of the season (DuBois and Molyneaux 2000) alters catchability and may skew perceived abundance and run timing assessments.

Following are some recommendations regarding inter-annual comparison of Bethel test fishery data:

1. Compare data from years with comparable water level and water clarity conditions to reduce the confounding influence these variables have on catchability.

2. Try to limit comparisons to years that are contemporary with one another to avoid the influence of changing channel morphology.

3. Consider the relative magnitude of fish removal and harvest effort upstream of the test-fish site as it may influence interpretation of the adequacy of the cumulative test-fish index as relates to escapement needs.

4. Certain size components of the population could be under or over represented in the test-fish catch because of the size selectivity of the gillnet mesh sizes used in the project. Variation of those size components of a population vary, between years or within a year, it can affect the comparability of the index values. This influence may be especially profound for chinook salmon.

Consistency of methods, completeness of historical database, frequency of operation, and timeliness of results are a combination of attributes that set the Bethel test fishery apart from nearly all other tools available to Kuskokwim River salmon managers. Our evolving understanding of how to interpret test-fish results has been an important and successful element in the development of inseason salmon management strategies. Nevertheless, the test fishery is an imperfect tool that requires a measure of subjectivity by experienced staff for the information to be interpreted effectively. Managers should also continue to use and interpret the test-fish information in concert with the full array of other available information.

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Table 1. Historical river stage (in feet) of the Kuskokwim River at Crooked Creek, 1984 through 2002. (Sourse: U.S. Geological Survey and National Weather Service)

Date	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002
6/1	7.8	18.5 e	6.6 e	6.9 e	10.8 e	12.3 e	8.4 e	10.0 e	10.1	9.3	7.6	8.3	4.1	3.9	9.1	10.2	5.5	10.8	
6/2	7.6	19.2 e	6.4 e	7.1 e	10.8 e	11.5 e	8.7 e	10.0 e	10.4	9.2	7.4	8.0	4.0	3.9	9.2	9.7	5.5	10.5	
6/3	7.5 e	18.5 e	6.2 e	7.4	10.8 e	11.2 e	8.8 e	10.0 e	10.2	9.1	7.2	7.5	3.9	3.7	9.3	9.7	5.6	10.5	
6/4	7.3 e	18.0	6.1 e	7.8	10.0 e	11.2 e	9.1 e	10.0 e	10.2	9.0	6.9	7.4	3.9	3.4	9.3	9.6	5.7	10.5	
6/5	7.1 e	17.3	5.9 e	7.7	10.0 e	10.8 e	9.4 e	9.6 e	10.2	9.0	6.8	7.4	4.0	3.3	9.4	9.6	5.8	10.5	10.0
6/6	7.0 e	16.9	5.9 e	7.7	10.0 e	10.8 e	9.2	9.6 e	10.2	8.9	6.7	7.2	3.9	3.3	9.4	9.1	5.8	10.6	9.8
6/7	6.9 e	16.1	5.8 e	7.8	9.9	10.7	9.6	10.0 e	10.2	8.7	6.6	7.2	4.0	3.3	9.3	9.0	5.7	10.6	9.6
6/8	6.8 e	15.4	5.8 e	8.0	9.9	10.4	9.4	10.0 e	9.2	8.5	6.5	7.2	3.9	3.2	9.3	8.6	5.7	10.9	9.6
6/9	6.7 e	14.6	5.8 e	8.1	9.9	10.2	9.4	9.6 e	9.2	8.2	6.4	7.1	4.0	3.4	9.0	8.4	5.8	11.0	9.6
6/10	6.6 e	13.4	5.6	8.1	10.0 e	10.0	9.3	9.6 e	9.2	8.0	6.3	7.1	4.1	3.5	9.0	8.5	5.9	10.9	9.5
6/11	6.5 e	11.2	5.2	8.1	10.8 e	9.8	9.1	9.6 e	9.2	7.6	6.2	6.1	4.5	3.8	8.9	8.7	6.4	10.8	9.1
6/12	6.4 e	10.5	5.0	7.9	10.8 e	9.6	8.8	9.2 e	9.2	7.5	6.1	6.0	5.1	4.0	8.8	8.8	6.5	10.7	8.7
6/13	6.3 e	10.1	5.2	7.6	10.8 e	9.3	8.6	9.2 e	9.2	7.4	6.1	5.7	5.5	3.9	8.8	9.2	6.4	10.6	8.5
6/14	6.3 e	9.8	5.0	7.2	12.3 e	9.1	8.4	9.2 e	9.8	7.3	6.1	5.6	5.4	3.8	8.8	9.0	6.1	10.5	8.2
6/15	6.2 e	9.8	5.0	6.9	13.1 e	8.8	8.3	9.2 e	9.8	7.2	6.1	5.6	5.1	3.8	8.8	9.2	6.0	10.2	7.7
6/16	6.2 e	9.6	5.1	6.5	10.8 e	8.6	8.3	9.2 e	9.8	7.2	6.3	5.5	4.8	3.7	8.4	9.0	5.6	9.8	7.2
6/17	6.2 e	9.5	5.0	6.2	10.0 e	9.0	8.3	9.6 e	9.8	7.2	6.6	5.6	4.6	3.5	7.7	9.2	5.4	9.5	6.8
6/18	6.1 e	9.5	5.1	5.9	10.8 e	8.9	8.2	9.6 e	9.7	7.1	6.8	5.8	4.3	3.6	6.9	8.9	5.2	9.1	6.6
6/19	6.1 e	9.3	5.8	5.6	10.8 e	8.7	8.1	10.0 e	9.6	7.1	6.9	5.9	4.1	3.6	6.4	9.6	5.0	8.7	6.5
6/20	5.9 e	8.7	6.1	5.5	10.0 e	8.8	7.7	10.0 e	9.6	7.1	6.9	5.8	3.9	3.6	5.9	9.8	5.1	8.2	6.5
6/21	5.9 e	8.2	6.5	5.4	9.6 e	8.7	7.4	9.6 e	8.7	7.1	7.1	5.7	3.8	3.5	5.8	9.9	4.7	8.1	6.6
6/22	5.8 e	7.8	6.5	5.3	9.6 e	8.3	7.1	9.6 e	8.7	7.1	7.4	5.6 e	3.8	3.3	6.0	9.8	4.6	8.1	6.6
6/23	5.8 e	7.4	6.4	5.2	9.6 e	7.9	6.8	9.2 e	8.7	7.1	7.6	5.6	3.8	3.4	6.3	10.2	4.4	8.1	6.5
6/24	6.1 e	7.0	6.1	5.1	9.2 e	7.7	6.6	9.2 e	8.3	7.2	7.9	5.6	3.8	3.5	6.4	9.3	4.2	8.1	6.6
6/25	6.3 e	6.7	5.8	5.3	9.2 e	7.8	6.5	8.7 e	8.1	7.2	8.2	5.5	3.7	3.6	6.3	9.0	4.0	8.1	6.7
6/26	6.5 e	6.5	5.5	5.4	9.2 e	8.2	6.3	8.7 e	8.0	7.2	8.3 e	5.2	3.7	3.6	6.1	8.7	3.9	8.1	6.3
6/27	6.7 e	6.2	5.2	5.3	8.7 e	8.5	6.1	8.3 e	8.1	7.0	8.2	5.2	3.9	3.6	5.8	8.7	3.8	7.8	6.4
6/28	6.8 e	6.1	5.1 e	5.2	8.7 e	8.2	6.0	8.3 e	8.2	6.9	8.1	5.1	3.9	3.9	5.7	8.6	4.0	7.8	6.3
6/29	6.9 e	6.0	5.1 e	5.3	8.7 e	8.0	6.0	7.8 e	8.2	6.8	7.9	5.0	4.2	4.0	5.5	8.3	4.1	7.5	5.9
6/30	6.9 e	6.0	5.2 e	5.3	8.3 e	8.0	5.9	8.3 e	8.3	6.7	7.6	5.1	4.3	4.1	5.3	8.4	4.4	7.2	5.6
7/1	6.9 e	6.1 e	5.2 e	5.5	8.3 e	8.0	6.0	8.3 e	8.4	6.7	7.2	5.0	4.3	4.2	5.6	8.9	4.5	7.1	5.4
7/2	6.7 e	6.2 e	5.2 e	5.8	8.3 e	7.8	6.0	7.8 e	8.6	6.6	6.8	4.9	4.2	4.1	5.7	9.1	4.5	6.9	5.2
7/3	6.5 e	6.3 e	5.2 e	6.0	7.8 e	7.7	6.0	7.8 e	8.4	6.4	6.4	5.0	4.0	4.1	5.8	8.7	4.5	6.7	5.2
7/4	6.3 e	6.5 e	5.3 e	6.1	7.8 e	7.7	6.0	7.3 e	8.2	6.2	6.2	5.3	3.7	4.1	5.9	8.7	4.5	6.6	5.1
7/5	6.1 e	6.7 e	5.5 e	6.1	7.8 e	7.7	6.1	6.8 e	8.2	6.1	6.0	5.2 e	3.6	3.9	6.3	8.5	4.5	6.4	5.0
7/6	5.8 e	6.8 e	5.7 e	5.9	7.8 e	7.7	6.2	7.3 e	8.2	6.0	6.0	5.2	3.4	3.9	6.6	8.2	4.6	6.3	5.1
7/7	5.6 e	7.0 e	5.6 e	5.8	7.3 e	7.7	6.3	7.3 e	8.3	5.9	6.0	5.2	3.3	4.0	6.8	7.9	4.9	6.3	5.0
7/8	5.3 e	7.1 e	5.7 e	6.0	7.3 e	7.6	6.3	7.8 e	8.3	5.7	5.9	5.1	3.2	3.9	7.7	7.8	4.8	6.3	4.9
7/9	5.2 e	7.2 e	5.8 e	6.5	7.3 e	7.4	6.2	7.8 e	8.5 e	5.6	5.8	5.1	3.1	3.8	10.4	7.7	4.7	6.0	4.9
7/10	5.2	7.3 e	6.1 e	6.9	7.3 e	7.3	6.1	7.3 e	8.6	5.5	5.8	5.1	3.1	3.9	13.5	7.5	4.7	5.7	5.0
7/11	5.2	7.4 e	5.9 e	7.2	6.8 e	7.2	6.0	7.3 e	8.6	5.2	6.1	5.0	3.2	4.0	15.0	7.5	5.0	5.6	4.8
7/12	5.2	7.5 e	5.8 e	7.2	6.8 e	7.0	5.8	6.8 e	8.7	5.1	6.5	5.0	3.1	3.8	15.1	7.3	5.1	5.6	4.7
7/13	5.1	7.6 e	5.7 e	7.2	6.8 e	6.8	5.7	6.8 e	8.7	5.1	6.8	5.0	3.1	3.7	14.2	7.0	5.1	5.8	4.8
7/14	5.1	7.7 e	5.5	7.2	6.3 e	6.9	5.6	6.3 e	9.0	5.1	7.3	5.0	3.1	3.7	13.2	6.9	5.0	5.9	4.5
7/15	5.0	7.7 e	5.5	7.2	6.3 e	7.2	5.4	6.3 e	9.1	5.2	7.5	5.0	3.2	3.7	12.2	6.6	5.1	6.0	4.4
7/16	5.0	7.7 e	5.3	7.1	6.3 e	7.5	5.2	6.6	9.2	5.3	7.3	4.9	3.4	3.6	11.1	6.4	5.4	6.0	4.3
7/17	5.0	7.7 e	5.1	7.2	5.7 e	7.9	5.0	6.4	9.8	5.4	7.0	4.9	3.3	3.4	10.4	6.5	5.7	6.1	4.2
7/18	4.8	7.7 e	5.1	7.4	5.7 e	8.3	4.9	6.3	10.2	5.5	6.9	4.9	3.3	3.4	10.1	6.5	6.0	6.2	4.2
7/19	4.6	7.7 e	5.0	7.8	5.7 e	8.3	4.8	6.4	10.5	5.7	6.7	4.5	3.3	3.3	9.8	6.5	6.8	6.5	4.4
7/20	4.6	7.6 e	4.9	8.3	5.6 e	8.2	4.7	6.5	11.2 e	5.9	6.8	4.1	3.5	3.1	9.6	6.6	7.0	6.6	4.0

-continued-

Table 1. (page 2 of 2)

Date	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002
7/22	4.6	7.5 e	5.9	9.7	5.7 e	7.9	4.6	6.5	9.8 e	6.1	6.6	3.6	3.9	3.2	9.5	6.9	6.7	7.2	4.1
7/23	4.6	7.5	6.4	9.6	5.7 e	7.6	4.6	6.4	7.5 e	6.2	6.6	3.6	4.3	3.0	9.2	7.1	6.8	7.5	4.1
7/24	4.7	7.4	7.1	9.6	4.8 e	7.4	4.6	6.2	7.2	6.3	6.7	4.6	4.4	3.1	8.8	7.1	6.4	7.8	4.1
7/25	4.7	7.2	8.2	9.7	5.1 e	7.5	4.7	6.4	7.0	6.3	6.8	4.9	4.5	3.0	8.5	6.8	6.1	8.3	4.1
7/26	4.7	7.1	8.8	9.7	5.7 e	7.5	4.8	6.4	6.8	6.2	6.6	5.0	4.6	3.2	8.1	6.9	6.2	8.6	4.3
7/27	4.9	6.9	8.8	9.6	5.7 e	7.3	4.7	6.1	6.5	6.1	6.6	5.4	5.0	3.3	7.9	7.3	6.1	8.7	4.6
7/28	4.9	6.6	8.6	9.5	5.1 e	7.1	4.6	6.0	6.3	6.0	6.7	5.5	6.0	3.3	8.1	7.8	6.1	8.9	4.7
7/29	4.8	6.5	8.3	9.3	5.7 e	6.9	4.5	5.9	6.2	5.9	6.6	5.3	6.7	3.3	8.8	7.9	5.7	9.1	4.7
7/30	4.9	6.4	7.8	8.6	5.7 e	6.9	4.3 e	6.1	6.0	5.8	6.6	5.1	7.1	3.4	9.2	7.9	5.7	8.8	4.8
7/31	5.2	6.4	7.4	8.5	5.1 e	7.0	4.0	6.3	5.9	5.8	6.4	5.0	7.5	3.4	9.2	8.3	5.7	8.8	4.7
8/1	5.6	6.5	7.3	8.7	4.8 e	7.3	3.8	6.4	5.9	5.7	6.3	4.5	8.0	3.5	9.0	8.9	5.8	8.9	4.8
8/2	5.9	6.4	7.5	8.5	4.5 e	7.6	3.8	6.8	6.0	5.6	6.3	3.7	8.7	3.5	8.7	8.8	6.1	9.2	4.3
8/3	6.2	6.3	7.2	8.4	4.3 e	7.7	3.7	7.2	5.9	5.5	6.6	3.8	8.8	3.7	9.0	8.7	6.1	8.9	4.1
8/4	6.4	6.2	6.8	8.7	4.5 e	7.9	3.6	7.7	5.8	5.4	7.3	5.0	8.7	3.8	9.5	8.7	5.9	8.7	3.9
8/5	6.7	6.3	6.5	8.6	4.8 e	8.1	3.5	8.2	5.8	5.2	8.1	5.1	8.3	3.8	9.6	8.6	6.1	8.6	3.7
8/6	6.7	6.3	6.3	8.5	4.8 e	8.0	3.4	8.4	5.9	5.4	8.4	5.4	8.2	3.8	9.4	8.3	6.6	8.1	3.7
8/7	6.6	6.1	6.1 e	8.5	4.5 e	7.9	3.4	8.6	6.2	5.8	8.4	5.8	8.2	3.8	9.6	8.1	6.4	7.7	3.8
8/8	6.6	6.0	6.1 e	8.9	4.3 e	8.0	3.4	8.7	6.7	7.4	8.3	5.8	8.1	3.8	9.6	7.9	6.6	7.3	4.1
8/9	6.6	6.0	5.9 e	9.4	4.5 e	8.8	3.4	8.6	7.1	7.8	8.0	5.5	8.2	3.8	9.3	8.0	6.6	6.8	4.9
8/10	6.5	6.3	5.9 e	9.4	5.1 e	9.2	3.4	8.2	7.0 e	7.6	7.6	5.6	8.2	3.7	9.1	8.2	6.5	6.4	5.6
8/11	6.3	6.5	5.8 e	9.1	4.8 e	9.8	3.4	7.9	6.9	7.4	7.4	5.6	8.7	3.7	8.7	8.3	6.5	6.2	5.6
8/12	6.2	6.9	5.9 e	8.8	4.3 e	10.8	3.4	7.8	7.3	7.4	7.2	5.8	9.1	3.6	8.4	8.2	6.1	5.9	5.6
8/13	6.0	7.8	5.9 e	8.7	4.5 e	11.9	3.5	7.3	7.4	7.5	7.2	5.8 e	9.2	3.6	8.3	8.5	5.9	5.7	5.7
8/14	5.8	10.2	6.1 e	8.5	4.3 e	12.4	3.6	7.2	7.4	7.7	6.8	5.8	9.1	3.5	7.6	10.0	6.0	5.6	5.6
8/15	5.6	10.8	6.2 e	8.3	4.8 e	12.4	3.6	7.0	7.1 e	8.7	6.6	5.9	9.0	3.5	7.3	11.2	6.4	5.8	5.5
8/16	5.3	10.5	6.3 e	8.2	4.3 e	11.9	3.6	6.8	6.9	9.8	6.5	6.0	8.8	3.4	7.1	11.1	7.3	6.4	5.3
8/17	5.0	11.2	6.4 e	8.3	4.0 e	11.5 e	3.7	6.8	6.6	10.2	6.3	5.8 e	8.4	3.4	7.2	10.9	7.1	6.4	4.7
8/18	4.9	11.6	6.3 e	8.0	3.7 e	10.8 e	3.8	7.0	6.4 e	10.3	6.0	5.5	8.0	3.4	7.3	10.6	7.5	7.7	4.5
8/19	5.1	11.2	6.2 e	7.9	3.1 e	10.0 e	4.0	7.3	6.3	9.9	5.7	5.3	7.8	3.3	7.9	10.0	8.0	8.5	4.2
8/20	5.9	10.7	6.2	7.6	3.4 e	9.6 e	4.2	7.6	6.0	9.5	5.7	5.1	7.7	3.2	8.4	9.6	8.0	9.6	4.2
8/21	6.7	10.7	6.0	7.4	3.1 e	9.6 e	4.4	7.4	6.1 e	9.2	5.7	4.9 e	7.6	3.1	8.7	9.3	7.8	10.6	3.8
8/22	6.9	11.1	5.8	7.0	2.8 e	9.2 e	4.9	7.3	6.1 e	9.1	5.6	4.6 e	7.4	3.2	9.9	9.0	7.5	11.1	4.0
8/23	7.0	11.3	5.9	6.8	2.8 e	9.2 e	5.4	7.1	6.3 e	8.8	5.9	4.4	7.3	3.4	10.6	8.9	7.3	11.0	4.5
8/24	7.5	10.8	6.7	6.6	3.4 e	9.2 e	5.5	6.9	6.7	8.7	5.8	3.9	7.3	3.6	11.4	8.7		11.1	5.2
8/25	8.0	10.4	7.4	6.6	3.1 e	9.2 e	6.1	6.7	6.6	8.3 e	5.7	4.0	7.4	3.5	11.7	8.5		11.0	5.2
8/26	8.7	9.9	8.6	5.9	3.4 e	9.2 e	6.5	7.0	6.4	8.3 e	5.9	3.8	8.0	3.4	11.7	8.1		10.5	5.8
8/27	10.2	9.4	9.5	5.3	3.7 e	9.2 e	7.6	7.4	7.2	7.8 e	8.3 e	3.7	9.3	3.6	11.9	7.7		9.4	5.8
8/28	10.5	8.9	9.6	5.2	4.0 e	9.2 e	11.1	7.5	6.6	7.7	11.0	3.7	10.0	4.0	11.7	7.4		9.0	5.5
8/29	9.9	8.5	9.5	5.0	4.0 e	9.2 e	12.5	7.2	6.5	6.8	11.7	3.8	9.9	4.0	11.0	7.1		8.7	5.3
8/30	9.5	8.3	9.3	4.7	3.4 e	9.2 e	14.0	7.0	7.6	6.6	12.0	3.7	9.6	4.0	10.7	6.8		8.2	5.1
8/31	8.9	8.3	8.9	4.6	3.7 e	9.2 e	13.6	6.7	7.2	6.6	11.8	3.8	9.3	4.0	10.4	6.6		7.8	4.9

e = indicates an estimate

Table 2. Historical daily water clarity measurements of the Kuskokwim River at the Bethel test-fish site, 1984-2002.

Date	Water Clarity (m) by Year																		
	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002
5/31																			
6/01						0.2	0.7		0.1	0.2	0.4	0.6	0.9					0.3	0.3
6/02					0.2	0.5	0.3	0.5	0.2	0.3	0.6	0.6	0.9	1.2	0.3			0.2	0.3
6/03		0.1			0.3	0.3		0.5	0.2	0.5	1.0	0.6	0.3	1.1	0.2			0.3	0.2
6/04		0.1		0.7	0.2	0.3	0.5	0.6	0.2	0.6	1.0	0.6	0.8	1.1	0.3	0.5		0.3	0.3
6/05		0.1	0.5	0.7	0.3	0.4	0.5	0.5	0.2	0.5	1.0	0.8	1.0	1.6	0.3	0.4	0.9	0.5	0.3
6/06		0.2	0.4	0.6	0.3	0.3	0.6	0.6	0.2	0.5	1.0	0.7	1.2	1.6	0.3	0.4	0.7	0.4	0.3
6/07		0.2	0.5	0.7	0.4	0.3	0.3	0.6	0.2	0.5	1.0	0.7	1.3	1.6	0.3	0.5	0.8	0.4	0.3
6/08		0.2	0.3	0.7	0.3	0.4	0.3	0.6	0.2	0.4	0.9	0.7	1.2	1.6	0.3	0.4	0.9	0.3	0.3
6/09	1.0	0.2	0.5	0.7	0.4	0.3	0.3	0.6	0.2	0.4	0.9	0.7	1.1	1.8	0.4	0.4	0.8	0.5	0.3
6/10	0.7	0.2	0.4	0.6	0.4	0.4	0.5	0.6	0.2	0.3	1.0	0.7	1.3	1.6	0.4	0.5	0.7	0.3	0.3
6/11	0.7	0.3	0.4	0.7	0.4	0.4	0.3	0.6	1.0	0.3	0.8	0.6	1.0	1.5	0.4	0.4	0.7	0.3	0.3
6/12	1.0		0.5	0.7	0.4	0.4	0.2	0.6	1.0	0.4	0.8	0.7	1.0	1.3	0.3	0.4	0.5	0.3	0.4
6/13		0.3	0.5	0.7	0.4	0.6	0.2	0.8	0.7	0.2	1.0	0.8	1.2	1.3	0.4	0.5	0.7	0.3	0.4
6/14	1.1	0.3	0.5	0.7	0.4	0.4	0.3	0.7	0.6	0.2	1.0	1.1	0.9	1.3	0.4	0.5	0.8	0.4	0.3
6/15	1.0	0.3	0.6	0.6	0.4	0.4	0.3	0.6	0.9	0.3	1.0	1.1	0.8	1.6	0.4	0.5	0.7	0.3	0.4
6/16	0.9	0.4	0.8	0.6	0.4	0.3	0.3	0.6	0.8	0.3	0.8	1.0	0.8	1.5	0.5	0.5	0.6	0.4	0.4
6/17	0.8	0.4	0.6	0.6	0.4	0.5		0.7	0.8	0.3	1.0	0.8	0.9	1.4	0.5	0.5	0.6	0.3	0.4
6/18	0.6	0.4	0.7	0.6	0.4	0.6	0.2	0.6	0.7	0.4	0.7	1.0	1.0	1.2	0.3	0.5	0.7	0.4	0.4
6/19	0.6	0.3	0.7	0.6	0.4	0.6	0.2	0.6	0.6	0.4	0.9	0.9	1.0	1.1	0.3	0.3	0.6	0.5	0.5
6/20	0.6		0.7	0.7	0.4	0.4	0.2	0.7	0.7	0.6	0.9	1.1	0.8	0.8	0.4	0.3	0.6	0.4	0.6
6/21	0.6	0.3	0.6		0.3		0.2	0.6	0.8	0.6	0.5	1.1	1.2	0.8	0.3	0.3	0.5	0.4	0.8
6/22	0.6	0.4	0.6			0.6	0.2	0.5	0.6	0.7	0.5	1.0	1.2	0.9	0.5	0.3	0.5	0.4	0.8
6/23	0.6	0.4			0.4	1.0	0.2	0.5	0.7	0.7	0.6	0.7	1.2	0.9	0.6	0.2	0.6	0.4	0.7
6/24	0.5	0.4	0.6	0.7	0.3	0.8	0.2	0.5	0.6	0.7	0.4	0.6	1.1	0.8	0.5	0.3	0.6	0.4	0.6
6/25	0.4	0.4	0.6	0.8			0.2	0.6	0.5	0.6	0.5	0.4	1.1	1.2	0.5	0.2	0.6	0.4	0.5
6/26	0.4	0.5	0.5	0.7	0.3	0.2	0.3	0.6	0.5	0.5	0.2	0.5	0.8	1.2	0.6	0.2	0.6	0.3	0.5
6/27	0.4		0.6	0.7	0.3	0.5	0.2	0.5	0.8	0.5	0.2		0.8	1.5	0.6	0.2	0.6	0.3	0.4
6/28	0.4		0.3	0.7	0.3	0.6	0.3	0.6	0.9	0.5	0.5		1.0	1.2	0.5	0.2	0.8	0.3	0.3
6/29	0.4	0.4	0.5	0.8	0.3	0.6	0.3	0.5	0.7	0.5	0.2	0.6	1.0	1.4	0.5	0.2	0.9	0.2	0.3
6/30	0.4		0.4	0.5	0.4			0.5	0.8	0.3	0.2	0.5	0.9	1.5	0.4	0.2	1.0	0.2	0.2
7/01	0.4		0.4	0.7	0.3	0.5	0.6	0.4	0.8	0.4	0.2	0.5	1.1	1.7		0.3	1.1	0.2	0.2
7/02	0.5	0.5	0.5	0.4	0.4	0.6	0.6	0.3	0.8	0.3	0.2	0.6	0.9	1.3	0.4	0.3	1.0	0.2	0.3
7/03	0.3	0.5	0.6		0.4		0.5	0.3	0.8	0.3		0.5	0.9	1.0	0.5	0.3	1.0	0.2	
7/04	0.3			0.4		0.4	0.7	0.3	1.2	0.3	0.4	0.6	0.7	0.7	0.6	0.3	1.0	0.2	0.2
7/05	0.3	0.5	0.7	0.4	0.3	0.3	0.6	0.3	0.8	0.4	0.3	0.6	0.8	0.4	0.5	0.3	0.8	0.2	
7/06	0.3	0.5	0.7	0.4	0.3	0.3	0.6		0.8	0.4	0.4	0.5	0.8	0.4	0.5	0.4	0.6	0.2	
7/07	0.3	0.4	0.6	0.5	0.4	0.5	0.4	0.3	0.7	0.3	0.5	0.5	0.8	0.2	0.4	0.4	0.5	0.2	
7/08	0.3	0.3	0.9	0.7		0.4	0.4	0.3	1.5	0.4	0.5	0.4		0.2	0.5	0.3	0.5	0.3	0.5
7/09	0.2		0.9	0.5	0.3	0.4	0.4	0.3	1.7	0.3	0.8	0.6	0.8	0.2	0.4	0.3	0.5	0.2	0.5
7/10	0.2		0.6	0.5	0.3	0.2	0.2	0.3	0.8	0.4	0.8	0.3	1.0	0.3	0.3	0.3	0.3	0.2	0.5
7/11	0.2	0.2	0.6	0.5			0.3	0.2	1.0	0.4	0.9	0.4	0.8	0.2	0.1	0.3	0.3	0.2	0.5
7/12	0.3	0.2		0.6	0.2	0.2	0.2	0.2	0.5	0.6	0.9	0.5	0.9	0.2	0.1	0.3	0.4	0.3	0.4
7/13	0.3	0.2		0.6	0.2	0.2	0.2	0.2	0.5	0.4	0.7	0.5	0.9	0.2	0.1	0.3	0.5	0.2	0.4
7/14	0.3	0.2	0.3	0.5	0.2		0.2	0.3	0.3	0.4	0.7	0.4	0.9	0.2	0.3	0.3	0.4	0.2	0.3
7/15	0.3	0.2	0.2	0.5	0.2	0.2	0.2	0.2	0.3	0.3	0.6	0.4	1.1	0.2	0.3	0.3	0.4	0.2	0.3
7/16	0.2	0.2	0.2	0.5	0.2	0.2	0.2	0.3	0.2	0.4	0.7	0.4	0.9	0.2	0.2	0.3	0.4	0.2	0.3
7/17	0.2	0.2	0.3	0.4	0.3	0.3	0.2	0.2	0.1	0.6	0.5	0.4	0.8	0.1	0.2	0.2	0.3	0.3	0.3
7/18	0.2	0.2	0.3		0.3	0.3	0.2		0.2	0.5	0.7	0.4	0.8	0.2	0.2	0.2	0.2	0.4	0.3
7/19	0.2	0.3		0.4	0.3	0.3	0.2	0.2	0.1	0.6	0.7	0.3	0.8	0.2	0.2	0.3	0.2	0.3	0.2
7/20	0.2	0.3			0.3	0.2	0.2	0.2	0.1	0.4	0.6	0.4	0.7	0.2	0.2	0.2	0.3	0.3	0.2

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Table 2. (page 2 of 2)

Date	Water Clarity (m) by Year																		
	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002
7/21	0.2		0.2	0.3	0.2	0.3	0.2		0.2	0.5	0.4	0.3	0.8	0.2	0.3	0.1	0.2	0.4	0.3
7/22	0.3	0.3	0.3	0.3	0.2	0.3	0.4	0.2	0.2	0.3	0.7	0.4	0.8	0.2	0.2	0.2	0.2	0.5	0.3
7/23	0.4	0.3	0.3	0.4	0.2	0.3	0.3	0.4	0.2	0.4	0.4	0.4	0.7	0.2	0.2	0.3	0.2	0.4	0.4
7/24	0.4	0.3	0.3	0.4	0.2	0.2	0.4	0.3		0.2	0.6	0.3	0.8	0.2	0.3	0.2	0.2	0.4	0.3
7/25	0.4	0.3	0.2			0.2	0.3	0.5	0.2	0.3	0.6	0.4	0.6	0.2	0.2	0.2	0.2	0.5	0.3
7/26	0.4	0.3	0.2		0.2	0.2	0.3	0.6	0.2	0.2	0.4	0.4	0.5	0.2	0.3	0.1	0.2	0.5	0.4
7/27	0.4	0.3	0.2	0.3	0.2		0.4	0.5	0.3	0.3	0.4	0.4	0.3	0.2	0.2	0.1		0.3	0.3
7/28	0.4	0.3	0.2	0.2	0.1	0.2	0.4	0.5	0.3	0.2	0.3	0.5	0.5	0.3	0.2	0.2		0.3	0.4
7/29	0.3	0.3	0.1	0.3	0.2	0.2	0.4	0.5	0.2	0.2	0.3	0.4	0.4	0.4	0.2	0.2		0.3	0.3
7/30	0.3	0.3	0.1	0.2	0.1	0.3		0.5	0.3	0.2	0.3	0.5	0.3	0.3	0.3	0.2		0.2	0.2
7/31	0.3	0.3		0.2	0.2		0.4	0.5	0.3	0.2	0.5	0.5	0.3	0.3	0.3	0.2		0.2	0.3
8/01	0.2	0.3	0.3	0.3	0.2	0.2	0.4	0.5	0.3	0.2	0.6	0.4	0.2	0.3		0.2		0.1	0.2
8/02	0.2	0.3	0.1	0.2	0.1	0.3	0.2	0.5	0.4	0.2	0.5	0.4	0.2	0.3	0.2	0.2		0.1	0.3
8/03	0.2	0.3	0.1	0.2	0.1	0.3	0.2	0.6	0.4	0.2	0.5	0.2	0.2	0.3	0.2	0.2		0.1	0.3
8/04	0.2	0.3	0.1	0.3	0.2	0.3	0.2	0.6	0.5	0.2	0.4	0.2	0.2	0.3	0.2	0.2		0.1	0.3
8/05	0.2	0.3	0.2	0.3	0.2	0.2	0.2		0.5	0.2	0.3	0.2	0.3	0.2	0.2	0.2		0.2	0.2
8/06			0.2	0.3	0.2	0.3	0.2	0.5	0.4	0.2	0.7	0.2	0.3	0.2		0.2		0.2	0.2
8/07		0.3	0.2	0.3	0.2		0.2	0.5	0.4	0.2	0.3	0.2		0.2	0.2	0.2		0.1	0.3
8/08	0.2		0.3	0.3		0.3	0.2	0.3	0.4	0.1	0.4	0.3	0.3	0.1	0.2	0.2		0.2	
8/09	0.2		0.2	0.2	0.3	0.3	0.2	0.4	0.3	0.2	0.3	0.3	0.4	0.2	0.2	0.2			0.3
8/10	0.2	0.3	0.3	0.2		0.3	0.3	0.3	0.3	0.1		0.2	0.3	0.1	0.2	0.2			0.3
8/11	0.2	0.3	0.3	0.2	0.3	0.3	0.3	0.4	0.3	0.1		0.3	0.4	0.1	0.3	0.2			0.3
8/12		0.3	0.2	0.2	0.2		0.4	0.3	0.4	0.1	0.1	0.4	0.4		0.3	0.2			0.2
8/13	0.2	0.3	0.3		0.2	0.2	0.4	0.3	0.3	0.1	0.2	0.4	0.4	0.1	0.2	0.2			0.2
8/14	0.1	0.2		0.2	0.3	0.2		0.2	0.4	0.1	0.2	0.4	0.3	0.1	0.3	0.2			0.2
8/15	0.2	0.2		0.2	0.3	0.2	0.5	0.2	0.4	0.2	0.1	0.4	0.3	0.1	0.3	0.2			0.2
8/16	0.1	0.2	0.3		0.3	0.2	0.4	0.3	0.2	0.3	0.2	0.4	0.3	0.2	0.3	0.2			0.3
8/17	0.1	0.2	0.4		0.3	0.2		0.3	0.1	0.3	0.2	0.4	0.3	0.1		0.2			0.2
8/18	0.2	0.1	0.3		0.2	0.2	0.2	0.3	0.1	0.2		0.4	0.4	0.1	0.2	0.1			0.1
8/19	0.2	0.1	0.3	0.2	0.2	0.2	0.2	0.3	0.1	0.2	0.3		0.3	0.2	0.3	0.1			0.2
8/20		0.1	0.4	0.3	0.3	0.2	0.2	0.4	0.1	0.2	0.3	0.4	0.4	0.2	0.2	0.2			0.2
8/21	0.2	0.1	0.4	0.3	0.3	0.2	0.2	0.4	0.2	0.2	0.2	0.5	0.4	0.2	0.3	0.1			0.3
8/22	0.1	0.1	0.3	0.5	0.2	0.2	0.3	0.5	0.2	0.2	0.2		0.4	0.2	0.3	0.1			0.2
8/23	0.2	0.1	0.5	0.4	0.3	0.2	0.2	0.4	0.2	0.2	0.3	0.5	0.4	0.3	0.2	0.2			
8/24	0.2	0.2	0.4	0.4	0.2	0.3	0.2	0.4		0.3	0.3	0.5	0.5	0.2	0.2	0.2			
8/25	0.2	0.2		0.4	0.3			0.5		0.2		0.5	0.3	0.2	0.2	0.1			
8/26	0.3	0.2		0.4	0.4		0.1	0.5		0.3	0.2	0.5	0.4	0.2	0.2				
8/27	0.2	0.3	0.3	0.4	0.4		0.2	0.5		0.3	0.3	0.5	0.4	0.2					
8/28	0.2	0.3		0.5	0.5	0.2	0.1	0.5		0.2	0.3	0.6	0.3	0.2					
8/29	0.2	0.3		0.4	0.4	0.2	0.3	0.4		0.3	0.2								
8/30	0.1						0.2	0.5		0.3	0.2								
8/31	0.2			0.4		0.3		0.6											

Table 3. Historical daily surface water temperature of the Kuskokwim River at the Bethel test-fish site, 1984-2002.

Date	Water Temperature (°C) by Year																		
	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002
5/31	11																		
6/01	10						12		12	14	11	11	13	15				9	
6/02	11				9		12	9	12	13	13	10	11	15	7			9	10
6/03	11	7			9		12	9	12	14	14	11	14	14	8			10	16
6/04	13	7		14	10	9	13	9	10	15	11	11	13	15	9	7		11	11
6/05	13	7	7	16	10	9	12	10	11	14	11	12	15	15	8	7	9	11	9
6/06	13	8		16	10	9	13	11	10	13	14	12	14	15	8	7	10	11	10
6/07	12	8	7	16	11	9	12	12	12	15	13	13	13	15	9	9	11	12	10
6/08	12	8	7	15	10	9		12	12	15	13	12	12	15	9	7	11	11	9
6/09	13	9	8	16	10	9		13	12	14	12	12	13	14	8	10	13	11	9
6/10	13	9	8	14	11	9		13	13	14	13	11	10	14	8	10	13	11	7
6/11	15	10	8	14	11	10		13	13	14	12	10	9	14	8	10	12	10	9
6/12			11	14	11	9		13	14	14	14	13	10	14	8	10	13	10	11
6/13	16	8	12	12	12	11		13	14	14	15	13	10	14	9	10	13	10	10
6/14	16	8	12	10	12	11		13	14	12	15	13	11	14	9	11	13	10	14
6/15	15	9	12	10	12	12		12	14	13		12	12	14	9	12	13	10	15
6/16	16	11	14	10	13	12	12	11	14	13	14	12	14	14	10	13	13	10	19
6/17	16	10	14	11	13	12	12	11	14	14	14	12	13	14	10	15	13	11	16
6/18	16	10	14	12	13	12	12	11	14	14	14	12	14	14	11	14	13	13	10
6/19	16	11	13	12	13	12	12	11	14	15	14	13	14	14	11	15	13	15	11
6/20	16		13	11	11	12	12	12	14	14	14	14	14	14	10	14	13	14	10
6/21	16	10	13	12	11		11	13	14	14	14	13	14	14	10	14	13	15	12
6/22	16	10	13	14		13	11	13	15	14	14	14	14	14	10	14	14	16	10
6/23	16	11		12	11	13	10	13	15	14	13	14	14	14	11	14	15	16	12
6/24	15		13	12	12	13	11	13	15	14	12	11	14	16	11	13	16	15	15
6/25	15	11	13	12	11	12	12	13	15	15	10	11	13	16	11	14	17	14	15
6/26	15	12	13	13	12	13	12	13	14	14	12	11	15	16		14	18	14	15
6/27	16	12	13	13	11	13	11	14	14	14	10	12	14		13	13	17	13	15
6/28	16		13	13	11	13	11	14	15	13	11	11	13	17	12	14	16	14	15
6/29	16	10		13	12	14	12	16	14		11	13	13	18	13	15	16	14	15
6/30	16		16	13	13		14	17	13		11	14	13	18	14	15	15	15	15
7/01	16	13	16	12	14	16	15	16	13	15	12	13	13	18		14	15	13	15
7/02	17	12	17	12	15	14	16	17	14	15	13	13	13	18	14	14	16	12	15
7/03	17	12	13		15		16	16	14	14		13	13	20	14	14	14	13	
7/04	16			14		17	16	17	15	13	12		14	19	14	13	16	13	14
7/05	16	13	17	13	15	18	17	17	15	13	12		14	20	15	14	16	12	
7/06	16	14	17	13	15	18	17		17	14	11		16	20	15	15	17	12	
7/07	15	14	16	14	16	17	16	18	16	15	10		16	20	15	15	16	13	
7/08	14	13	17	14		17	16	18	16	15	11			19	14	15	16	13	13
7/09	13	13	16		14	15	16	17	17	15	10		16	18	13	16	16	13	14
7/10	13	13	16	13	15	15		18	15	15	12		17	17	12	17	16	14	14
7/11	15	13	15	13		15		18	15	17	11		16	17	12	17	15	12	14
7/12	15	15	16	13	14	15	16	18	16	16	12		16	16	11	17	16	12	15
7/13	16	13		13	14	15	16	16	15	15	12		15	16	11	18	17	12	15
7/14	16	15	14	13	15		15	15	15	15	12			16	11	18	17	13	16
7/15	16	15	15	14	16	15	16	14	14	17	13			16	11	16	16	13	15
7/16	17	15	15	12	17	15	16	14	16	16	13			16	13	15	15	13	16
7/17	17	15	15	12	14	14	16	14	16	18	13		15	16	12	14	14	12	16
7/18	16	15	15	14	15	13	17		17	18	14		14	15	13	14	14	12	16
7/19	15	16		12	17	13	16	14	17	19	15		14	16	14	15	13	12	17
7/20	15	16			16	12	17	13	16	20	14		14	16	14	13	13	13	16

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Table 3. (page 2 of 2).

Date	Water Temperature (°C) by Year																		
	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002
7/21	15		13	12	17	12	17	13	15	20	14	16	15	16	14	13	13	13	17
7/22	15	17	13	11	18	12	17	14	17	21	14	16	15	16	14	11	14		17
7/23	17	17	13	11	18	12	17	14	16	21	14	16	16	16	14	13	14		17
7/24	15	17	13	11	18	12	17	15		21	13	16	16	16	15	13	14		17
7/25	16	17	12			13	18	15	17	18	13	15	16	16	14	13	14		16
7/26	16	17	12		17	13	17	16	17	18	13	14	15	16	14	13	13		15
7/27	16	17	12	12	16		16	15	17	18	14	15	14	16	13	12			15
7/28	16		13	13	15	12	17	14	17	17	14	15	14	17	13	12		16	15
7/29	16	17	13	14	15	14		14	17	18	14	15	14	16	12	12		15	15
7/30	15	17	13	14	15	14		14	16	17	14	15	14	17	13	11		14	15
7/31	15	17	13		15		16	14	15	16	15	15	13	17	13	11			15
8/01	15	19	12	12	15	14	16	14	15	17	13	15	12	16		11			16
8/02	16	18	12		15	14	15	14	16	17	13	14	11	17	12	11			17
8/03	16	18	12		14	14	14	13	15	17	13	14	11	17	12	13			17
8/04	15	16	12		15	14	14	13	16	16	13	14	11	17	12	13		13	18
8/05	15	16	11		16	13	16		16	15	14	13	11	17	10	12		14	17
8/06		16	12		16	13	16	14	16	16	13	13	10	17	11	13		13	17
8/07		16	12		15	14	16	14	15	14	13	12		18	11	13		13	15
8/08	16		13			14	16	14	15	12	14	11	11	18	10	13		13	
8/09	16	14	13		13	14	16	13	14	14	14	11	11	18	11	13			14
8/10	15	13	11			14	16	13	15	16	13	11	10	16	11	13			15
8/11	15		12	14	12	14	16	14	13	15	14	12	11	15	11	13			15
8/12		13	12	14	12		16	14	13	16	13	11	10		11	12			15
8/13	15	12			12	13	16	13	12	15	13	11	11	15	10	12			14
8/14	15	12		12	11	14		14	13	15	13	11	11	14	10	12			14
8/15	15	11	11	12	11	13	16	13	13	14	13	11	11	13	10	12			13
8/16	14	11	12	12	11	14	14	13	14	13	13	11	11	13	10	12			13
8/17	14	11	12	12	11	14		13	12	13	12	12	11	13		13			13
8/18	14		13	12	11	14	14	13	13	13	13	12	12	13	9	13			13
8/19	16		11	16	12	14	13	13	12	12	12	13	12	13	10	12			12
8/20			13	13	12	13	13	14	12	11	13	11	12	13	10	12			12
8/21	14	11	13	16	12	13	13	14	12	11	12	12	12	13	10	12			11
8/22	13	11	13	13	12	13	13	13	12	10	12	11	11	13	9	13			11
8/23	11	11	12	14	11	13	13	13	12	11	11	12	14	13	9	13			
8/24	12	10	12		11	13	12	13		11	12	12	11	12	8	13			
8/25	11	10			11			12		11		13	11	13	8	13			
8/26	9	10			9		12	12		12	11	13	10	12	8				
8/27	10	10	12		9		12	12		11	10	12	10	12					
8/28	9	11			10	12	12	11		12	9	13	10	12					
8/29	9	11		16	11	12	12	11		14	9								
8/30	9			15		12	12	11		14	10								
8/31	9					12	11	11		13									

Table 4. Historical daily CPUE for chinook salmon catches in the Bethel test fishery, 1984 - 2002.

Date	Daily CPUE by Year [a]																		
	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002
5/30	0	0																	
5/31	0	0																	
6/01	0	0				0	0		0	3	3	3	3				0	0	
6/02	1	0			3	0	2	0	0	4	2	3	10	0	0		0	0	
6/03	0	0	0		0	0	0	0	0	10	3	1	5	2	4		0	1	
6/04	0	0	3	0	0	0	1	0	0	3	2	1	17	5	6	0	0	0	
6/05	0	0	1	5	2	0	1	1	0	8	11	3	12	4	7	0	1	4	1
6/06	0	0	1	3	0	0	1	3	2	11	15	2	19	0	7	0	6	1	6
6/07	2	0	5	5	3	2	3	6	0	5	2	10	19	2	0	0	3	0	4
6/08	3	0	0	16	22	7	4	2	3	8	5	15	6	7	3	1	0	0	4
6/09	6	0	1	9	14	9	5	1	6	29	5	2	15	2	2	0	1	0	12
6/10	5	0	0	20	5	15	8	0	7	16	2	10	20	15	8	0	4	3	10
6/11	5	0	0	18	21	4	14	3	21	3	0	10	25	3	2	3	11	3	13
6/12	13	0	0	22	18	9	14	0	22	20	7	17	19	30	2	0	1	1	8
6/13	3	0	0	13	11	11	6	2	21	14	16	16	33	10	7	2	0	0	29
6/14	5	0	1	21	3	27	2	2	18	10	52	10	45	1	9	2	1	0	21
6/15	17	0	9	10	8	19	9	1	11	22	15	3	16	9	13	4	0	3	26
6/16	14	0	20	11	8 c	7	11	3	21	17	13	3	26	24	2	7	1	0	30
6/17	4	0	14	54	21	21	6	3	24	37	14	11	25 c	37	11	6	4	11	19
6/18	26	0	4	14 c	7	35	13	12	9 c	30	2	24	8	26	3	3	1	11	15
6/19	14	0	15	13	13	19 c	26	6	5	29	22	31	11	49	6	3	3	1	18
6/20	14	1 c	3	18	25 c	16	9 c	15 c	9	30	13	8	15 c	39	18	0	7	6	31
6/21	5	7	17	23	16	14	12	6	9	27	20	29	22	48	10	1	4	3	11
6/22	12	0	15	30	13	17	19	4	0 c	31	29	11 c	6	34	7	4	4	11	4
6/23	4	3	14	26	16	23 c	9	6	6	13	12	22	10	21 c	21	0	13	8	8
6/24	11	0 c	13	9 c	21 c	21	24	8 c	14	21	3 c	25	13 c	7	25 c	4	1	3	11
6/25	4 c	4	1	38	8	26	34 c	7	12 c	8 c	10	22	7	20	24	6	2	5	7
6/26	4	0	5 c	20	10	48 c	31	4	11	2	2	35 c	6	14	14	4	0	4	16
6/27	6	3 c	8	25	14	50	13	2	9	5	11	12	3	12	11	7	1	11	8
6/28	10 c	8	0	15	5 c	11	25	7	13	5	3	5	9	0	20	9	6	6	7
6/29	4	9	3	18	3	3	21 c	16	11 c	7	15	19 c	3	1	14 c	2	3	1	8
6/30	1	4	3 c	12 c	3	22 c	0	9	6	12	7	15	4	3	25	0 c	1	0	7
7/01	6	12 c	7	15	12	11	2	9 c	11	3	5	13	0	2	4	4	0	1	7
7/02	14 c	1	6	9	1 c	3	9	8	6	4	3	3	2 c	1	14	4	1	3	11
7/03	3	9	7 c	3 c	5	9 c	17	6	7	3	5	9 c	0	4	9 c	3	0	2	4
7/04	11	6 c	3	8	5	7	20	6	10	3	3	9	2	3	11	1	0	1	9
7/05	4 c	9	3	7	8 c	10 c	5 c	1	3	0	5	7	4 c	4	4	3	0 c	3	7
7/06	6	8	1	9	0	2	6	2 c	0 c	0	5	0 c	4	6	3	3	2	0	5
7/07	0	3	1 c	15 c	0	9	8	3	0	2	11	3	2	6	6	0	1	3	4
7/08	3	5	4	0	6 c	4 c	14	2	3	2	2	5	2 c	2	4	6	0	1	3
7/09	7 c	5	3	1	0	5	5 c	0	0	4	3	6	2	0	2	3	0	0	0
7/10	2	1	0 c	3	0	4	0	2	3	2	0	0 c	3	6	6	1	0	2	6
7/11	0	2	2	2 c	0 c	0 c	0	0	4	2	0	2	2	8	2 c	4	2	2	1
7/12	1 c	1	0	2	0	1	4	0	4	2	0	0	0 c	2	0	2	0	0	3
7/13	1	1	0	2	0	0	2	2 c	4	0	0	0	2	0	0	4	0	1	0
7/14	0	0	1	1	8 c	0 c	2 c	1	0	0	0 c	0 c	0	0	0	5	0	0	0
7/15	1	2	0	0 c	0	0	2	1	0	0	0	0	0	0	0	0	0	0	2
7/16	8 c	0	0	0	8	0	2	2	4	0	0	0	0 c	0	6	0	0	1	2
7/17	0	1	0	3	6	1	2	0	5	2	0	0	0	2	0	2	0	2	0
7/18	2	0	0	0	2 c	2 c	0	2 c	6	0	2	0 c	0	0	0	0	2	2	0
7/19	0	0	0	14	0	1	0	2	3	2	2 c	0	0 c	0	4	2	0	0	2
7/20	3	0	0	1 c	0	5	0	0	0	0	0	2	0	2	0	0	2	0	2
7/21	0	0	2	2	0 c	1	0	0	0	0	0	0 c	0	2	0	0	0	0	0
7/22	0	0	2	0	0	6	4	0 c	0	0	0	0	0 c	2	0 c	2	0	0	0
7/23	0	0	0	3	0	0	0	0	0	0	0 c	0	0	0	0	0	0	0	0
7/24	1	0	3	0	1	0	2	0	0	0	0	0	0	2	2	4	0	0	0
7/25	0	0	0	0	0 c	0	0	0 c	0	0	0	0	2 c	0	0	2	0	0	2
7/26	2	0	0	0	2	0	4	0	0	0	0 c	0	2	0	0	0	0	0	0

- continued -

Table 4. (page 2 of 2).

Date	Daily CPUE by Year [a]																		
	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002
7/27	0	2	0	4	2	0 c	0	0	0	0	0	4	0	0	0 c	2	0	0	2
7/28	0	0	0	0	0 c	0	2	0	0	0	0	0	0	0	0	0	0	0	0
7/29	0	2	0	0	0	0	4	0 c	0	0	0 c	0	0 c	0	0	0	0	0	0
7/30	0 c	0	0	0	4	0	0	0	0	0	0	2	0	0	0	0	0	0	0
7/31	3	0	0 c	0	0	0	0	0	0	0 c	0	0	2 c	0 c	0	0	2	2	0
8/01	2	0	0	0	0 c	0	0 c	0 c	0	0	0	0	0	0	0 c	2	0 c	0	0
8/02	0 c	0 c	0	0	0	1	0	0	0	0	0	0	0	0	0	2	0	0	0
8/03	0	0	0	1	0	0 c	0	0	0 c	0	0	0	0 c	0	0	0	0	0	0
8/04	0 c	0	0 c	0	0 c	0	0	0	0	0 c	0 c	0 c	0	0	0	0	0 c	0	0
8/05	0	0 c	0	0	0	0	0	0 c	0	0	0	0	0	0	0	0	0 c	0	0
8/06	0	0	0	0 c	0	0	2 c	0	0 c	0 c	0	0	0	0 c	0 c	0	0	0	0
8/07	0	0	0 c	2	0	0 c	0	0	2	0	0	0	0 c	0	0	0 c	0	0	0
8/08	0	2 c	0	0	0 c	0	0	0 c	0	0	0	0 c	0	0	0	0	0 c	0	0
8/09	0 c	0	0	0	0	1 c	0	0	0	0 c	0 c	0	0	0	0	0	0 c	0	0
8/10	0	0	0	0	0 c	0	2 c	0	0	0	0	0	0 c	0	0	0	0	0	0
8/11	0	0	0 c	2	3	0	0	0	0 c	0	0	0	0	0	0 c	0	0	0	0
8/12	0	0 c	0	0	0 c	0 c	0	0 c	0	0	0 c	0 c	0	1 c	0	0	0 c	0	0
8/13	0 c	0	0 c	0 c	0	2	0 c	0	0	0	0	0	0 c	2	0	0	0	0	4
8/14	0	0	0	0	0	0	0	0 c	0 c	0 c	0	0	0	0	0	0	0 c	0	0
8/15	0	0 c	0 c	0	0 c	0 c	2	0	0	0	0 c	0	0	0	0	0	0	0	0
8/16	0 c	0	0	0	0	0	0 c	0	0	0	0	0 c	0 c	0	0	0	0	0	0
8/17	0	0	0	0 c	0	0	0	0	0 c	0 c	0	0	0	0	0 c	0	0 c	0	0
8/18	0	0	0 c	0	0 c	0 c	0	0	0	0	0 c	0	0	0 c	0	0	0 c	0	0
8/19	0	0 c	0	0 c	0	0	0	0 c	2	0	0	0 c	0	0	0	0	0	0	0
8/20	0 c	1	0	0	0 c	2	0 c	0	0 c	0	0	0	0 c	0	0	0	0	0	2
8/21	0	0	0 c	0 c	0	0	0	0	0	0 c	0	0	0	0	0	0	0 c	0	0
8/22	0	0 c	0	0	0	0	0	0	0	0	0 c	0 c	0	0	0 c	0	0 c	0	0
8/23	0 c	0	0	0	0	0 c	0	0	0	0	0	0	0 c	0	0	0	0	0	0
8/24	0	0	0	0 c	0	0	0	0	0 c	0	2	0	0	0	0	0			
8/25	0	0	0 c	0	0	0	0	0	0	0 c	0 c	0	0	0	0	0	c		
8/26	0	0 c	0	0	0	0 c	2	0 c	0	0	0	0 c	0	0	0				
8/27	0 c	0	0	0 c	0 c	0	0 c	0	0 c	0	0 c	0	0	0					
8/28	0	0	0 c	0	0	0	0	0	0	0 c	0	0	0	0					
8/29	0	0 c		0	0	0 c	0	0	0	0	0	0 c							
8/30	0 c	0		0		0	0	0	0	0	0 c								
8/31	0			0 c	c	0	0	0	0 c	0	0								
9/01	0		c	0		c				c									
9/02	0			0							c								
9/03	0 c		c	0 c															
9/04	0			0															
9/05	0			0															
9/06	0 c			0															
9/07			c	0 c															
9/08				0															
9/09				0															
9/10				0															
9/11				0															

"c" indicates days when commercial fishing periods occured in District 1

[a] Shaded columns represent years when the biological escapement goal of 10,000 was not achieved at Kogrukluk River weir.

Table 5. Historical cumulative daily CPUE for chinook salmon catches in the Bethel test fishery, 1984 - 2002.

Date	Daily CPUE by Year[a]																		
	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002
5/30	0	0																	
5/31	0	0																	
6/01	1	0				0	0		0	3	3	0	3					0	0
6/02	3	0			3	0	2	0	0	7	5	3	13	0	3			0	1
6/03	3	0	0		3	0	2	0	0	17	7	3	18	2	7			0	1
6/04	3	0	3	0	3	0	3	0	0	20	9	4	35	7	13	0		0	1
6/05	3	0	4	5	5	0	4	1	0	28	20	7	47	11	20	0	1	4	6
6/06	3	0	6	8	5	0	6	4	2	39	35	9	66	11	27	0	7	6	13
6/07	5	0	10	13	8	2	8	10	2	45	37	19	84	13	27	0	10	6	15
6/08	7	0	10	29	30	8	13	11	5	52	42	34	90	20	30	1	10	6	18
6/09	13	0	12	38	44	17	17	13	11	61	47	36	105	22	31	1	12	6	36
6/10	18	0	12	59	49	32	25	13	18	97	48	46	125	36	39	1	16	8	51
6/11	23	0	12	77	71	36	39	16	39	100	48	55	150	39	40	4	27	11	59
6/12	35	0	12	98	89	45	53	16	61	120	55	73	169	69	42	4	29	12	82
6/13	38	0	12	112	100	56	58	17	82	134	71	89	202	79	48	6	29	12	101
6/14	43	0	13	133	103	83	81	19	100	143	123	99	247	80	57	7	30	12	127
6/15	60	0	22	143	111	102	89	20	111	166	138	102	262	89	70	12	30	15	165
6/16	74	0	42	154	119 c	109	81	23	132	182	151	105	288	113	71	19	32	15	181
6/17	78	0	56	208	140	130	87	26	156	220	164	116	313 c	150	82	25	36	26	196
6/18	104	0	59	222 c	147	165	100	38	165 c	250	166	140	322	176	85	28	37	37	217
6/19	118	0	74	235	160	185 c	126	43	170	279	188	171	333	224	91	31	40	38	243
6/20	132	1 c	77	253	185 c	201	135 c	59 c	179	309	201	179	346 c	263	109	31	47	44	248
6/21	137	8	94	277	201	215	146	64	188	336	221	208	370	312	119	32	52	47	262
6/22	149	8	109	306	214	231	165	68	188 c	367	251	219 c	376	346	126	37	56	58	263
6/23	153	11	123	333	231	255 c	174	74	194	380	263	241	386	366 c	147	37	69	68	273
6/24	164	11 c	136	342 c	252 c	276	198	80 c	208	401	266 c	266	399 c	374	172 c	41	70	69	284
6/25	169 c	15	138	379	269	302	232 c	87	220 c	409 c	276	288	406	394	196	47	72	74	295
6/26	173	15	143 c	409	279	350 c	263	91	230	410	278	323 c	412	408	210	51	72	78	308
6/27	178	18 c	151	425	284	401	276	93	239	416	289	335	415	419	221	58	73	89	316
6/28	188 c	26	151	440	289 c	412	301	99	252	420	292	340	423	419	241	67	79	95	325
6/29	192	35	154	458	292	415	322 c	116	263 c	427	307	359 c	426	421	255 c	68	82	96	328
6/30	194	38	156 c	471 c	295	437 c	322	125	268	440	314	374	430	424	280	68 c	83	96	339
7/01	200	51 c	163	486	307	448	324	133 c	279	443	318	387	430	428	284	73	83	98	344
7/02	214 c	52	169	495	308 c	451	333	141	285	446	322	390	432 c	427	298	77	85	100	356
7/03	217	60	176 c	498 c	313	461 c	350	147	293	450	327	399 c	432	430	307 c	80	85	102	359
7/04	228	67 c	179	506	318	468	370	153	303	453	330	408	434	433	319	82	85	104	368
7/05	232 c	76	182	513	326 c	477 c	375 c	154	306	453	334	415	438 c	437	323	85	85 c	106	374
7/06	238	85	183	522	326	479	381	156 c	306 c	453	339	415 c	442	443	326	87	86	106	378
7/07	238	87	184 c	537 c	326	488	388	159	306	455	350	418	444	449	332	87	88	109	381
7/08	240	93	189	537	326 c	492 c	403	160	309	457	352	423	445 c	451	336	93	88	110	383
7/09	248 c	98	191	538	326	496	408 c	160	309	461	355	429	447	451	338	96	88	110	384
7/10	250	99	191 c	541	326	500	408	162	313	464	355	429 c	450	456	343	96	88	112	390
7/11	250	102	193	543 c	326 c	500 c	408	162	317	466	355	431	452	464	345 c	101	90	114	393
7/12	251 c	103	193	545	326	501	411	162	321	468	355	431	452 c	466	345	103	90	114	393
7/13	252	105	193	548	326	501	414	163 c	325	468	355	431	453	466	345	107	90	115	393
7/14	252	105	194	549	334 c	501 c	416 c	165	325	468	355 c	431 c	453	466	345	112	90	115	395
7/15	253	106	194	549 c	334	501	418	166	325	468	355	431	453	466	345	112	90	115	395
7/16	261 c	106	194	549	341	501	420	168	329	468	355	431	453 c	466	345	112	90	116	397
7/17	261	107	194	551	347	503	422	168	335	470	355	431	453	468	345	114	90	118	397
7/18	263	107	194	551	349 c	504 c	422	170 c	341	470	357	431 c	453	468	345	114	91	120	397
7/19	263	107	194	566	349	505	422	172	344	473	359 c	431	453 c	468	349	116	91	120	399
7/20	266	107	194	567 c	349	510	422	172	344	473	359	433	453	470	349	116	93	120	401
7/21	266	107	196	569	349 c	511	422	172	344	473	359	433 c	453	472	349	116	93	120	401
7/22	266	107	198	569	349	518	425	172 c	344	473	359	433	453 c	474	349 c	118	93	120	401
7/23	266	107	198	572	349	518	425	172	344	473	359 c	433	453	474	349	118	93	120	401
7/24	267	107	201	572	350	518	427	172	344	473	359	433	453	476	351	122	93	120	403
7/25	267	107	201	572	350 c	518	427	172 c	344	473	359	433	456 c	476	351	124	93	120	403
7/26	268	107	201	572	352	518	431	172	344	473	359 c	433	456	476	351	124	93	120	403

Table 5. (page 2 of 2).

Date	Daily CPUE by Year [a]																		
	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002
7/27	268	109	201	577	354	518 c	431	172	344	473	359	438	456	476	351 c	126	93	120	404
7/28	268	109	201	577	354 c	518	433	172	344	473	359	438	456	476	351	126	93	120	404
7/29	268	111	201	577	354	518	438	172 c	344	473	359 c	438	456 c	476	351	126	93	120	404
7/30	268 c	111	201	577	358	518	438	172	344	473	359	440	456	476	351	126	93	120	404
7/31	271	111	201 c	577	358	518	438	172	344	473 c	359	440	458 c	476 c	351	126	95	122	404
8/01	273	111	201	577	358 c	518	438 c	172 c	344	473	359	440	458	476	351 c	128	95 c	122	404
8/02	273 c	111 c	201	577	358	519	438	172	344	473	359	440	458	476	351	130	95	122	404
8/03	273	111	201	578	358	519 c	438	172	344 c	473	359	440	458 c	476	351	130	95	122	404
8/04	273 c	111	201 c	578	358 c	519	438	172	344	473 c	359 c	440 c	458	476	351	130	95 c	122	404
8/05	273	111 c	201	578	358	519	438	172 c	344	473	359	440	458	476	351	130	95 c	122	404
8/06	273	111	201	578 c	358	519	439 c	172	344 c	473 c	359	440	458	476 c	351 c	130	95	122	404
8/07	273	111	201 c	580	358	519 c	439	172	347	473	359	440	458 c	476	351	130 c	95	122	404
8/08	273	113 c	201	580	358 c	519	439	172 c	347	473	359	440 c	458	476	351	130	95 c	122	404
8/09	273 c	113	201	580	358	520	439	172	347	473 c	359 c	440	458	476	351	130	95 c	122	404
8/10	273	113	201	580	358 c	520	441 c	172	347	473	359	440	458 c	476	351	130	95	122	404
8/11	273	113	201 c	582	361	520	441	172	347 c	473	359	440	458	476	351 c	130	95	122	404
8/12	273	113 c	201	582	361 c	520 c	441	172 c	347	473	359 c	440 c	458	477 c	351	130	95 c	122	404
8/13	273 c	113	201 c	582 c	361	522	441 c	172	347	473	359	440	458 c	478	351	130	95	122	404
8/14	273	113	201	582	361	522	441	172 c	347 c	473 c	359	440	458	478	351	130	95 c	122	408
8/15	273	113 c	201 c	582	361 c	522 c	443	172	347	473	359 c	440	458	478	351	130	95	122	408
8/16	273 c	113	201	582	361	522	443 c	172	347	473	359	440 c	458 c	478	351	130	95	122	408
8/17	273	113	201	582 c	361	522	443	172	347 c	473 c	359	440	458	478	351 c	130	95 c	122	408
8/18	273	113	201 c	582	361 c	522 c	443	172	347	473	359 c	440	458	478 c	351	130	95 c	122	408
8/19	273	113 c	201	582 c	361	522	443	172 c	349	473	359	440 c	458	478	351	130	95	122	408
8/20	273 c	114	201	582	361 c	523	443 c	172	349 c	473	359	440	458 c	478	351	130	95	122	410
8/21	273	114	201 c	582 c	361	523	443	172	349	473 c	359	440	458	478	351	130	95 c	122	410
8/22	273	114 c	201	582	361	523	443	172	349	473	359 c	440 c	458	478	351 c	130	95 c	122	410
8/23	273 c	114	201	582	361	523 c	443	172	349	473	359	440	458 c	478	351	130	95	122	410
8/24	273	114	201	582 c	361	523	443	172	349 c	473	362	440	458	478	351	130			410
8/25	273	114	201 c	582	361	523	443	172	349	473 c	362 c	440	458	478	351	130	c		
8/26	273	114 c	201	582	361	523 c	445	172 c	349	473	362	440 c	458	478	351				
8/27	273 c	114	201	582 c	361 c	523	445 c	172	349 c	473	362 c	440	458	478					
8/28	273	114	201 c	582	361	523	445	172	349	473 c	362	440	458	478					
8/29	273	114 c		582	361	523 c	445	172	349	473	362	440 c							
8/30	273 c	114		582		523	445	172	349	473	362 c								
8/31	273			582 c	c	523	445	172	349 c	473	362								
9/01	273		c	582		c				c									
9/02	273			582							c								
9/03	273 c		c	582 c															
9/04	273			582															
9/05	273			582															
9/06	273 c			582															
9/07			c	582 c															
9/08				582															
9/09				582															
9/10				582															
9/11				582															

[a] "c" indicates days when commercial fishing periods occured in District 1.

[b] Shaded columns represent years when the biological escapement goal of 10,000 was not achieved at Kogrukluk River weir.

Table 6. Historical cumulative daily percent passage of chinook salmon in the Bethel test fishery, 1984 - 2002.

Date	Cumulative Daily Percent Passage by Year [a]																			
	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	Mean 84-02
6/01	1	0				0	0		0	1	1	0	1						0	0
6/02	1	0			1	0	0	0	0	1	1	1	3	0	1				0	1
6/03	1	0	0		1	0	0	0	0	4	2	1	4	1	2				0	1
6/04	1	0	1	0	1	0	1	0	0	4	2	1	8	1	4	0			0	1
6/05	1	0	2	1	1	0	1	1	0	6	6	2	10	2	6	0	2	3	1	2
6/06	1	0	3	1	1	0	1	2	0	8	10	2	14	2	8	0	8	5	3	4
6/07	2	0	5	2	2	0	2	6	0	9	10	4	18	3	8	0	11	5	4	5
6/08	3	0	5	5	8	2	3	7	1	11	12	8	20	4	8	1	11	5	4	6
6/09	5	0	6	7	12	3	4	7	3	17	13	8	23	4	9	1	12	5	9	8
6/10	7	0	6	10	14	6	6	7	5	20	13	10	27	8	11	1	17	7	13	10
6/11	8	0	6	13	20	7	9	9	11	21	13	13	33	8	11	3	29	9	14	13
6/12	13	0	6	17	25	9	12	9	17	25	15	17	37	14	12	3	30	10	20	15
6/13	14	0	6	19	28	11	13	10	23	28	20	20	44	16	14	5	30	10	25	18
6/14	16	0	6	23	29	16	14	11	29	30	34	22	54	17	16	6	32	10	31	21
6/15	22	0	11	25	31	20	16	12	32	35	38	23	57	19	20	9	32	12	40	24
6/16	27	0	21	26	33	21	18	13	38	39	42	24	63	24	20	15	33	12	44	27
6/17	29	0	28	36	39	25	20	15	45	46	45	26	68	31	23	19	38	22	48	32
6/18	38	0	30	38	41	32	23	22	47	53	46	32	70	37	24	21	39	30	53	36
6/19	43	0	37	40	44	35	28	25	49	59	52	39	73	47	26	24	42	31	59	40
6/20	48	1	38	44	51	38	30	34	51	65	56	41	76	55	31	24	50	36	61	44
6/21	50	7	47	48	56	41	33	37	54	71	61	47	81	65	34	25	54	38	64	48
6/22	55	7	54	53	59	44	37	40	54	78	69	50	82	72	36	28	59	47	64	52
6/23	56	9	61	57	64	49	39	43	56	80	73	55	84	77	42	28	72	54	67	56
6/24	60	9	68	59	70	53	45	46	60	85	73	60	87	78	49	31	74	56	69	60
6/25	62	13	68	65	72	58	52	51	63	86	76	65	89	82	56	36	75	61	72	63
6/26	63	13	71	69	75	67	59	53	66	87	77	74	90	85	60	39	75	64	75	66
6/27	65	15	75	73	79	77	62	54	69	88	80	76	91	88	63	45	77	73	77	70
6/28	69	23	75	76	80	79	68	58	72	89	81	77	92	88	69	52	83	78	79	73
6/29	70	30	76	79	81	79	73	67	75	90	85	82	93	88	73	53	86	79	80	76
6/30	71	34	78	81	82	83	73	72	77	93	87	85	94	89	80	53	87	79	83	78
7/01	73	44	81	83	85	86	73	77	80	94	88	88	94	89	81	56	87	80	84	80
7/02	78	45	84	85	85	86	75	82	82	94	89	89	94	89	85	60	89	82	87	82
7/03	79	53	87	86	87	88	79	86	84	95	90	91	94	90	88	62	89	84	88	84
7/04	83	59	89	87	88	89	83	89	87	96	91	93	95	91	91	63	89	85	90	86
7/05	85	67	90	88	90	91	85	90	88	96	92	94	96	91	92	65	89	87	91	88
7/06	87	74	91	90	90	92	86	91	88	96	94	94	97	93	93	67	91	87	92	89
7/07	87	77	92	92	90	93	88	92	88	96	97	95	97	94	95	67	92	89	93	90
7/08	88	81	94	92	90	94	91	93	89	97	97	96	97	94	96	72	92	91	93	91
7/09	91	86	95	92	90	95	92	93	89	98	98	98	98	94	96	74	92	91	94	92
7/10	92	87	95	93	90	96	92	94	90	98	98	98	98	95	98	75	92	92	95	93
7/11	92	89	96	93	90	96	92	94	91	99	98	98	99	97	98	78	94	94	96	94
7/12	92	90	96	94	90	96	93	94	92	99	98	98	99	97	98	80	94	94	96	94
7/13	92	92	96	94	90	96	93	95	93	99	98	98	99	97	98	83	94	95	96	95
7/14	92	92	97	94	92	96	94	96	93	99	98	98	99	97	98	87	94	95	96	95
7/15	93	93	97	94	92	96	94	97	93	99	98	98	99	97	98	87	94	95	96	95
7/16	95	93	97	94	95	96	95	98	95	99	98	98	99	97	98	87	94	95	97	96
7/17	95	94	97	95	96	96	95	98	96	100	98	98	99	98	98	88	94	97	97	96
7/18	96	94	97	95	97	96	95	99	98	100	99	98	99	98	98	88	96	98	97	97
7/19	96	94	97	97	97	97	95	100	99	100	99	98	99	98	99	89	96	98	97	97
7/20	97	94	97	97	97	98	95	100	99	100	99	99	99	98	99	89	98	98	98	98

- continued -

Table 6. (page 2 of 2).

Date	Cumulative Daily Percent Passage by Year *																			
	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	Mean 84-02
7/21	97	94	98	98	97	98	96	100	99	100	99	99	99	99	99	89	98	98	98	98
7/22	97	94	99	98	97	99	96	100	99	100	99	99	99	99	99	91	98	98	98	98
7/23	97	94	99	98	97	99	96	100	99	100	99	99	99	99	99	91	98	98	98	98
7/24	98	94	100	98	97	99	96	100	99	100	99	99	99	99	100	94	98	98	98	98
7/25	98	94	100	98	97	99	96	100	99	100	99	99	99	99	100	95	98	98	98	98
7/26	98	94	100	98	98	99	97	100	99	100	99	99	100	99	100	95	98	98	98	98
7/27	98	96	100	99	98	99	97	100	99	100	99	99	100	99	100	97	98	98	99	99
7/28	98	96	100	99	98	99	98	100	99	100	99	99	100	99	100	97	98	98	99	99
7/29	98	97	100	99	98	99	99	100	99	100	99	99	100	99	100	97	98	98	99	99
7/30	98	97	100	99	99	99	99	100	99	100	99	100	100	99	100	97	98	98	99	99
7/31	99	97	100	99	99	99	99	100	99	100	99	100	100	99	100	97	100	100	99	99
8/01	100	97	100	99	99	99	99	100	99	100	99	100	100	99	100	98	100	100	99	99
8/02	100	97	100	99	99	99	99	100	99	100	99	100	100	99	100	100	100	100	99	99
8/03	100	97	100	99	99	99	99	100	99	100	99	100	100	99	100	100	100	100	99	100
8/04	100	97	100	99	99	99	99	100	99	100	99	100	100	99	100	100	100	100	99	100
8/05	100	97	100	99	99	99	99	100	99	100	99	100	100	99	100	100	100	100	99	100
8/06	100	97	100	99	99	99	99	100	99	100	99	100	100	99	100	100	100	100	99	100
8/07	100	97	100	100	99	99	99	100	99	100	99	100	100	99	100	100	100	100	99	100
8/08	100	99	100	100	99	99	99	100	99	100	99	100	100	99	100	100	100	100	99	100
8/09	100	99	100	100	99	99	99	100	99	100	99	100	100	99	100	100	100	100	99	100
8/10	100	99	100	100	99	99	100	100	99	100	99	100	100	99	100	100	100	100	99	100
8/11	100	99	100	100	100	99	100	100	99	100	99	100	100	99	100	100	100	100	99	100
8/12	100	99	100	100	100	99	100	100	99	100	99	100	100	100	100	100	100	100	99	100
8/13	100	99	100	100	100	100	100	100	99	100	99	100	100	100	100	100	100	100	99	100
8/14	100	99	100	100	100	100	100	100	99	100	99	100	100	100	100	100	100	100	100	100
8/15	100	99	100	100	100	100	100	100	99	100	99	100	100	100	100	100	100	100	100	100
8/16	100	99	100	100	100	100	100	100	99	100	99	100	100	100	100	100	100	100	100	100
8/17	100	99	100	100	100	100	100	100	99	100	99	100	100	100	100	100	100	100	100	100
8/18	100	99	100	100	100	100	100	100	99	100	99	100	100	100	100	100	100	100	100	100
8/19	100	99	100	100	100	100	100	100	100	100	99	100	100	100	100	100	100	100	100	100
8/20	100	100	100	100	100	100	100	100	100	100	99	100	100	100	100	100	100	100	100	100
8/21	100	100	100	100	100	100	100	100	100	100	99	100	100	100	100	100	100	100	100	100
8/22	100	100	100	100	100	100	100	100	100	100	99	100	100	100	100	100	100	100	100	100
8/23	100	100	100	100	100	100	100	100	100	100	99	100	100	100	100	100	100	100	100	100
8/24	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100			100	100
8/25	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100				100
8/26	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100					100
8/27	100	100	100	100	100	100	100	100	100	100	100	100	100	100						100
8/28	100	100	100	100	100	100	100	100	100	100	100	100	100	100						100
8/29	100	100		100	100	100	100	100	100	100	100	100								100

* The rectangles represent the central fifty percent of the run for that year based on the test-fish index; the shaded numbers represent the medians dates of passage

Table 7. Historical daily CPUE for sockeye salmon catches in the Bethel test fishery, 1984 - 2002.

Date	Daily CPUE by Year																		
	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002
5/30	0	0																	
5/31	0	0																	
6/01	0	0				0	0		0	0	0	0	0					0	0
6/02	0	0			0	0	0	0	0	0	0	0	0	0	0			0	0
6/03	0	0	0		0	0	0	0	0	0	0	0	0	0	0			0	0
6/04	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0	0
6/05	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/06	0	0	0	3	0	3	0	0	0	0	0	0	3	3	0	0	0	9	0
6/07	3	0	6	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/08	0	0	8	17	12	0	0	0	0	3	0	0	3	0	0	0	0	0	0
6/09	0	0	13	13	14	3	0	0	0	3	0	0	9	3	0	0	3	0	0
6/10	0	0	3	16	12	3	0	0	0	0	0	0	40	0	0	0	3	2	6
6/11	5	0	21	16	43	20	8	0	0	7	0	0	50	6	0	0	14	0	3
6/12	0	0	6	112	62	12	3	0	0	6	0	3	20	3	0	0	11	6	17
6/13	2	0	11	49	47	11	0	3	9	31	0	3	43	0	5	3	6	7	13
6/14	6	0	0	9	14	27	16	3	13	7	3	7	67	6	6	3	9	0	29
6/15	0	0	48	42	9	24	14	3	13	3	3	13	53	12	6	0	3	3	9
6/16	7	0	102	168	7 c	15	20	0	14	23	0	16	68	61	3	12	3	12	52
6/17	7	0	49	252	26	15	63	12	46	66	10	3	22 c	9	14	12	6	62	24
6/18	22	3	79	69 c	48	46	16	51	45 c	41	0	19	33	60	0	9	14	23	15
6/19	0	13	119	17	98	28 c	38	11	9	10	55	28	107	31	12	15	20	29	16
6/20	14	0 c	34	47	26 c	19	31 c	39 c	15	63	10	6	103 c	61	15	0	17	14	58
6/21	5	12	145	76	135	53	15	9	28	136	76	66	136	174	17	12	38	53	37
6/22	26	11	169	166	135	58	14	43	36 c	46	29	49 c	29	147	40	6	26	30	13
6/23	0	97	63	355	117	36 c	77	17	39	54	73	22	68	24 c	139	3	224	216	40
6/24	31	0 c	33	142 c	63 c	40	60	6 c	67	90	109 c	31	124 c	8	92 c	59	66	241	14
6/25	91 c	135	226	49	29	63	91 c	9	96 c	110 c	36	124	126	86	17	17	38	48	12
6/26	19	129	198 c	62	115	26 c	25	6	19	23	40	74 c	122	60	45	29	6	62	12
6/27	48	126 c	202	34	69	53	43	21	49	21	26	28	95	50	38	61	31	82	15
6/28	20 c	117	138	41	42 c	40	90	39	141	25	23	131	65	7	36	43	69	45	15
6/29	3	256	20	37	9	35	104 c	25	108 c	62	189	61 c	77	188	98 c	18	17	23	29
6/30	18	150	221 c	164 c	45	40 c	6	20	71	428	20	64	20	38	63	14 c	38	12	28
7/01	34	190 c	15	241	91	13	24	28 c	35	117	13	88	11	40	47	63	64	22	3
7/02	46 c	54	98	63	28 c	11	24	35	38	55	29	69	17 c	47	137	34	58	29	22
7/03	24	68	85 c	36 c	32	22 c	65	62	78	14	190	108 c	62	5	131 c	29	35	47	10
7/04	38	33 c	32	124	54	1	96	36	22	57	93	66	34	20	128	15	28	19	11
7/05	35 c	45	42	166	45 c	5 c	22 c	39	6	10	73	128	11 c	32	42	62	5 c	8	12
7/06	23	56	33	12	17	3	3	7 c	12 c	32	160	32 c	9	6	45	68	14	9	11
7/07	24	58	74 c	44 c	11	13	23	7	0	20	35	45	23	56	62	14	23	5	10
7/08	27	3	21	6	13 c	15 c	38	0	13	58	44	30	12 c	45	120	50	75	28	14
7/09	17 c	23	11	30	10	3	29 c	27	3	6	86	13	46	20	30	50	36	8	5
7/10	2	6	2 c	30	5	0	14	6	4	4	29	0 c	11	23	11	100	14	8	3
7/11	2	12	9	4 c	4 c	2 c	6	3	7	4	6	7	6	21	3 c	45	13	5	2
7/12	2 c	6	23	3	0	5	4	3	5	0	4	2	8 c	8	3	50	8	8	2
7/13	0	5	17	7	0	4	8	3 c	19	21	0	4	11	4	6	25	0	4	0
7/14	1	2	13	5	3 c	0 c	6 c	3	23	30	2 c	2 c	10	2	4	62	2	4	0
7/15	3	0	2	3 c	2	0	8	3	4	9	0	0	2	6	0	121	0	2	0
7/16	10 c	9	8	0	0	8	4	0	10	2	0	0	9 c	4	2	50	0	3	0
7/17	2	4	6	2	3	1	0	2	4	0	2	0	2	2	4	12	4	2	0
7/18	5	4	3	0	2 c	1 c	0	0 c	6	0	2	0 c	0	2	0	2	0	0	0
7/19	4	3	4	6	0	1	2	0	0	0	0 c	0	0 c	8	0	2	0	0	0
7/20	0	5	4	3 c	0	0	0	0	0	0	0	4	2	4	2	6	0	0	4
7/21	2	5	7	0	0 c	0	0	0	0	2	1	0 c	0	8	0	4	0	0	0
7/22	1	8	3	0	1	0	0	2 c	0	2	2	0	4 c	0	0 c	2	0	0	0
7/23	0	3	3	0	0	0	0	2	0	0	0 c	2	0	2	0	5	0	0	2
7/24	0	0	0	0	1	0	0	0	0	0	2	0	0	2	0	2	0	0	0
7/25	2	0	0	0	0 c	0	0	0 c	0	0	0	0	2 c	2	0	0	2	0	0
7/26	2	2	0	0	0	0	0	0	0	0	0 c	0	2	4	2	0	2	0	2

- continued -

Table 7. (page 2 of 2).

Date	Daily CPUE by Year																		
	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002
7/27	0	0	1	0	0	0 c	0	0	0	0	0	0	0	0	2 c	0	2	0	1
7/28	0	0	0	0	0 c	0	2	0	0	0	0	2	0	0	0	0	0	0	3
7/29	0	0	2	0	0	0	0	0 c	0	0	0 c	0	0 c	0	0	0	0	0	0
7/30	0 c	0	2	0	0	0	1	0	0	0	0	0	0	2	4	0	0	0	2
7/31	0	0	0 c	0	1	0	2	0	0	0 c	0	0	0 c	0 c	0	0	2	0	0
8/01	0	0	1	0	0 c	0	0 c	0 c	0	0	0	2	0	0	0 c	0	0 c	0	2
8/02	0 c	0 c	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/03	0	2	0	2	0	0 c	0	0	0 c	0	0	2	0 c	0	0	0	1	0	0
8/04	0 c	0	0 c	0	0 c	0	0	0	0	0 c	0 c	0 c	0	4	0	0	2 c	0	0
8/05	0	0 c	0	0	0	0	0	0 c	0	0	0	0	0	0	0	0	0 c	0	0
8/06	0	0	1	0 c	0	0	2 c	0	0 c	0 c	0	0	0	0 c	0 c	0	0	2	0
8/07	0	0	0 c	0	0	0 c	0	0	0	0	0	2	0 c	0	0	0 c	0	0	0
8/08	0	0 c	0	0	0 c	0	0	0 c	0	0	0	0 c	0	0	0	0	0 c	0	0
8/09	0 c	0	0	0	0	0 c	0	0	0	0 c	0 c	0	0	2	0	0	0 c	0	0
8/10	0	0	3	0	0 c	0	0 c	0	0	0	2	0	0 c	0	0	0	0	0	0
8/11	0	0	0 c	0	0	0	0	0	0 c	0	0	0	0	0	0 c	0	0	0	0
8/12	0	0 c	0	2	0 c	0 c	0	0 c	2	0	0 c	0 c	0	0 c	0	0	0 c	0	0
8/13	0 c	0	0 c	0 c	0	0	0 c	0	0	0	0	0	0 c	0	0	0	0	0	0
8/14	0	0	0	0	0	0	0	0 c	0 c	0 c	0	0	0	0	0	0	0 c	0	0
8/15	0	0 c	0 c	0	0 c	0 c	0	0	0	0	0 c	0	0	0	0	0	0	0	0
8/16	0 c	0	0	0	0	0	0 c	0	0	0	0	0 c	0 c	0	0	0	0	0	0
8/17	0	0	0	0 c	0	0	0	0	0 c	0 c	0	0	0	0	0 c	0	0 c	0	0
8/18	0	0	0 c	0	0 c	0 c	0	0	0	0	0 c	0	0	0 c	0	0	0 c	0	0
8/19	0	0 c	0	0 c	0	0	0	0 c	0	0	0	0 c	0	0	0	0	0	0	0
8/20	0 c	0	0	0	0 c	0	0 c	0	0 c	0	0	0	0 c	0	0	0	0	0	0
8/21	0	0	0 c	0 c	0	0	0	0	0	0 c	0	0	0	0	0	0	0 c	2	0
8/22	0	0 c	0	0	0	0	0	0	0	0	0 c	0 c	0	0	0 c	0	0 c	0	0
8/23	0 c	0	0	0	0	0 c	0	0	0	0	0	0	0 c	0	0	0	0		0
8/24	0	0	1	1 c	0	0	0	0	0 c	0	0	0	0	0	0	0			
8/25	0	0	0 c	0	0	0	0	0	0	0 c	0 c	0	0	0	0	0	c		
8/26	0	0 c	0	0	0	0 c	0	0 c	0	0	0	0 c	0	0	0				
8/27	0 c	0	0	0 c	0 c	0	0 c	0	0 c	0	0 c	0	0	0					
8/28	0	0	0 c	0	0	0	0	0	0	0 c	0	0	0	0					
8/29	0	0 c		0	0	0 c	0	0	0	0	0	0 c							
8/30	0 c	0		0		0	0	0	0	0	0 c								
8/31	0			0 c	c	0	0	0	0 c	0	0								
9/01	0		c	0		c				c		c							
9/02	0			0							c								
9/03	0 c		c	0 c															
9/04	0			0															
9/05	0			0															
9/06	0 c			0															
9/07			c	0 c															
9/08				0															
9/09				0															
9/10				0															
9/11				0															

"c" indicates days when commercial fishing periods occured in District 1

Table 8. Historical cumulative daily CPUE for sockeye salmon catches in the Bethel test fishery, 1984 - 2002.

Date	Daily CPUE by Year																		
	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002
5/30	0	0																	
5/31	0	0																	
6/01	0	0				0	0		0	0	0	0	0					0	0
6/02	0	0			0	0	0	0	0	0	0	0	0	0	0			0	0
6/03	0	0	0		0	0	0	0	0	0	0	0	0	0	0			0	0
6/04	0	0	0	6	0	0	0	0	0	0	0	0	0	0	0	0		0	0
6/05	0	0	0	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/06	0	0	6	9	0	3	0	0	0	0	0	0	3	3	0	0	0	9	0
6/07	3	0	6	18	0	3	0	0	0	0	0	0	3	3	0	0	0	9	0
6/08	3	0	14	35	12	3	0	0	0	3	0	0	6	3	0	0	0	9	0
6/09	3	0	27	48	27	6	0	0	0	6	0	0	15	6	0	0	3	9	0
6/10	3	0	30	64	38	9	0	0	0	6	0	0	55	6	0	0	6	11	6
6/11	8	0	50	80	82	29	8	0	0	14	0	0	105	12	0	0	20	11	8
6/12	8	0	56	191	143	40	11	0	0	20	0	3	125	15	0	0	31	17	25
6/13	10	0	68	240	191	51	11	3	9	50	0	6	167	20	5	3	37	23	38
6/14	16	0	73	249	205	78	27	6	22	57	3	13	234	26	11	6	45	23	67
6/15	16	0	121	290	214	102	41	9	35	60	6	26	287	38	17	6	48	26	67
6/16	23	0	223	458	221 c	117	60	9	49	83	6	42	355	98	20	18	51	38	119
6/17	30	0	273	710	247	132	123	21	97	149	16	45	377 c	107	34	29	57	100	143
6/18	52	3	352	779 c	296	178	139	71	142 c	190	16	64	411	167	34	38	71	123	158
6/19	52	16	471	796	394	207 c	177	83	151	207	71	92	518	198	46	53	91	152	174
6/20	66	16 c	505	843	419 c	226	207 c	122 c	167	269	80	98	621 c	258	60	53	108	166	232
6/21	71	28	650	919	554	278	222	130	194	406	158	164	757	432	77	64	146	219	289
6/22	97	40	819	1,085	690	336	236	173	230 c	451	185	213 c	785	580	117	70	172	249	283
6/23	97	137	882	1,440	807	372 c	313	190	269	506	258	235	873	604 c	256	73	395	465	322
6/24	128	137 c	915	1,582 c	869 c	412	374	196 c	336	596	368 c	266	997 c	612	348 c	133	461	706	336
6/25	169 c	272	1,141	1,631	898	495	464 c	204	432 c	705 c	404	400	1,123	698	365	150	499	754	348
6/26	188	400	1,339 c	1,693	1,013	521 c	489	210	451	728	443	475 c	1,245	758	410	179	505	836	360
6/27	236	526 c	1,541	1,727	1,082	574	532	231	499	749	469	502	1,341	808	448	259	536	918	375
6/28	256 c	643	1,679	1,768	1,124 c	614	622	270	640	774	492	633	1,405	814	484	303	605	963	390
6/29	259	899	1,699	1,805	1,133	648	726 c	295	748 c	836	681	694 c	1,482	1,002	582 c	320	622	986	418
6/30	277	1,049	1,920 c	1,969 c	1,178	688 c	732	315	819	1,264	701	758	1,502	1,040	665	335 c	660	998	446
7/01	311	1,239 c	1,935	2,211	1,269	702	756	343 c	854	1,380	714	846	1,513	1,080	712	398	724	1,020	449
7/02	357 c	1,293	2,032	2,273	1,297 c	713	780	376	890	1,435	742	915	1,530 c	1,127	849	432	782	1,048	471
7/03	381	1,361	2,117 c	2,309 c	1,329	736 c	845	440	967	1,449	932	1,023 c	1,592	1,136	980 c	461	817	1,096	482
7/04	416	1,394 c	2,149	2,433	1,383	737	941	476	989	1,505	1,025	1,089	1,626	1,156	1,108	476	845	1,115	492
7/05	451 c	1,439	2,191	2,599	1,428 c	742 c	963 c	514	995	1,515	1,097	1,217	1,637 c	1,188	1,150	558	850 c	1,123	504
7/06	475	1,495	2,224	2,611	1,445	745	966	521 c	1,008 c	1,546	1,257	1,249 c	1,646	1,194	1,195	626	865	1,132	515
7/07	498	1,553	2,298 c	2,655 c	1,456	759	988	528	1,008	1,566	1,292	1,294	1,669	1,250	1,257	640	887	1,137	525
7/08	525	1,556	2,319	2,662	1,469 c	774 c	1,027	528	1,020	1,625	1,336	1,324	1,681 c	1,295	1,377	696	962	1,163	539
7/09	542 c	1,579	2,330	2,691	1,478	777	1,055 c	555	1,024	1,631	1,422	1,337	1,726	1,315	1,413	751	998	1,171	544
7/10	545	1,584	2,332 c	2,722	1,483	777	1,069	561	1,028	1,635	1,451	1,337 c	1,738	1,339	1,424	851	1,012	1,179	546
7/11	547	1,597	2,341	2,726 c	1,488 c	779 c	1,076	563	1,034	1,639	1,457	1,343	1,743	1,360	1,427 c	896	1,025	1,184	548
7/12	549 c	1,603	2,365	2,729	1,488	784	1,080	566	1,040	1,639	1,461	1,346	1,751 c	1,368	1,430	954	1,033	1,192	550
7/13	549	1,607	2,382	2,736	1,488	788	1,088	569 c	1,059	1,660	1,461	1,350	1,763	1,372	1,436	980	1,033	1,197	550
7/14	550	1,609	2,388	2,741	1,491 c	788 c	1,093 c	572	1,082	1,690	1,463 c	1,352 c	1,772	1,374	1,440	1,041	1,035	1,201	550
7/15	553	1,609	2,397	2,744 c	1,492	788	1,102	575	1,086	1,698	1,463	1,352	1,774	1,380	1,440	1,163	1,035	1,203	550
7/16	562 c	1,619	2,404	2,744	1,492	795	1,106	575	1,097	1,700	1,463	1,352	1,783 c	1,383	1,442	1,213	1,035	1,206	550
7/17	564	1,622	2,411	2,746	1,496	797	1,106	577	1,101	1,700	1,465	1,352	1,784	1,385	1,446	1,225	1,039	1,208	550
7/18	569	1,626	2,414	2,746	1,498 c	798 c	1,106	577 c	1,107	1,700	1,468	1,352 c	1,784	1,387	1,446	1,227	1,039	1,208	550
7/19	573	1,629	2,418	2,752	1,498	799	1,108	577	1,107	1,700	1,468 c	1,352	1,784 c	1,395	1,448	1,228	1,039	1,208	550
7/20	573	1,635	2,421	2,755 c	1,498	799	1,108	577	1,107	1,700	1,468	1,357	1,786	1,399	1,448	1,234	1,039	1,208	554
7/21	575	1,639	2,428	2,755	1,498 c	799	1,108	577	1,107	1,703	1,469	1,357 c	1,786	1,406	1,448	1,238	1,039	1,208	554
7/22	576	1,648	2,431	2,755	1,499	799	1,108	579 c	1,107	1,705	1,471	1,357	1,790 c	1,406	1,448 c	1,240	1,039	1,208	554
7/23	576	1,651	2,434	2,755	1,499	799	1,108	581	1,107	1,705	1,471 c	1,359	1,790	1,408	1,448	1,245	1,039	1,208	556
7/24	576	1,651	2,434	2,755	1,500	799	1,108	581	1,107	1,705	1,473	1,359	1,790	1,410	1,448	1,247	1,039	1,208	556
7/25	578	1,651	2,434	2,755	1,500 c	799	1,108	581 c	1,107	1,705	1,473	1,359	1,792 c	1,412	1,448	1,247	1,041	1,208	556
7/26	579	1,653	2,434	2,755	1,500	799	1,108	581	1,107	1,705	1,473 c	1,359	1,794	1,416	1,450	1,247	1,042	1,208	558

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Table 8. (page 2 of 2).

Date	Daily CPUE by Year																		
	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002
7/27	579	1,653	2,435	2,755	1,500	799 c	1,108	581	1,107	1,705	1,473	1,359	1,794	1,416	1,452 c	1,247	1,044	1,208	558
7/28	579	1,653	2,435	2,755	1,500 c	799	1,109	581	1,107	1,705	1,473	1,361	1,794	1,416	1,452	1,247	1,044	1,208	559
7/29	579	1,653	2,437	2,755	1,500	799	1,109	581 c	1,107	1,705	1,473 c	1,361	1,794 c	1,416	1,452	1,247	1,044	1,208	562
7/30	579 c	1,653	2,439	2,755	1,500	799	1,111	581	1,107	1,705	1,473	1,361	1,794	1,418	1,456	1,247	1,044	1,208	564
7/31	579	1,653	2,439 c	2,755	1,501	799	1,113	581	1,107	1,705 c	1,473	1,361	1,794 c	1,418 c	1,456	1,247	1,046	1,208	564
8/01	579	1,653	2,441	2,755	1,501 c	799	1,113 c	581 c	1,107	1,705	1,473	1,363	1,794	1,418	1,456 c	1,247	1,046 c	1,208	566
8/02	579 c	1,653 c	2,441	2,757	1,501	799	1,113	581	1,107	1,705	1,473	1,363	1,794	1,418	1,456	1,247	1,046	1,208	566
8/03	579	1,654	2,441	2,759	1,501	799 c	1,113	581	1,107 c	1,705	1,473	1,365	1,794 c	1,418	1,456	1,247	1047	1,208	566
8/04	579 c	1,654	2,441 c	2,759	1,501 c	799	1,113	581	1,107	1,705 c	1,473 c	1,365 c	1,794	1,422	1,456	1,247	1,048 c	1,208	566
8/05	579	1,654 c	2,441	2,759	1,501	799	1,113	581 c	1,107	1,705	1,473	1,365	1,794	1,422	1,456	1,247	1,048 c	1,208	566
8/06	579	1,654	2,442	2,759 c	1,501	799	1,114 c	581	1,107 c	1,705 c	1,473	1,365	1,794	1,422 c	1,456 c	1,247	1048	1,209	566
8/07	579	1,654	2,442 c	2,759	1,501	799 c	1,114	581	1,107	1,705	1,473	1,367	1,794 c	1,422	1,456	1,247 c	1048	1,209	566
8/08	579	1,654 c	2,442	2,759	1,501 c	799	1,114	581 c	1,107	1,705	1,473	1,367 c	1,794	1,422	1,456	1,247	1048 c	1,209	566
8/09	579 c	1,654	2,442	2,759	1,501	799 c	1,114	581	1,107	1,705 c	1,473 c	1,367	1,794	1,424	1,456	1,247	1048 c	1,209	566
8/10	579	1,654	2,444	2,759	1,501 c	799	1,114 c	581	1,107	1,705	1,475	1,367	1,794 c	1,424	1,456	1,247	1048	1,209	566
8/11	579	1,654	2,444 c	2,759	1,501	799	1,114	581	1,107 c	1,705	1,475	1,367	1,794	1,424	1,456 c	1,247	1048	1,209	566
8/12	579	1,654 c	2,444	2,761	1,501 c	799 c	1,114	581 c	1,109	1,705	1,475 c	1,367 c	1,794	1,424 c	1,456	1,247	1048 c	1,209	566
8/13	579 c	1,654	2,444 c	2,761 c	1,501	799	1,114 c	581	1,109	1,705	1,475	1,367	1,794 c	1,424	1,456	1,247	1,048	1,209	566
8/14	579	1,654	2,444	2,761	1,501	799	1,114	581 c	1,109 c	1,705 c	1,475	1,367	1,794	1,424	1,456	1,247	1,048 c	1,209	566
8/15	579	1,654 c	2,444 c	2,761	1,501 c	799 c	1,114	581	1,109	1,705	1,475 c	1,367	1,794	1,424	1,456	1,247	1,048	1,209	566
8/16	579 c	1,654	2,444	2,761	1,501	799	1,114 c	581	1,109	1,705	1,475	1,367 c	1,794 c	1,424	1,456	1,247	1,048	1,209	566
8/17	579	1,654	2,444	2,761 c	1,501	799	1,114	581	1,109 c	1,705 c	1,475	1,367	1,794	1,424	1,456 c	1,247	1,048 c	1,209	566
8/18	579	1,654	2,444 c	2,761	1,501 c	799 c	1,114	581	1,109	1,705	1,475 c	1,367	1,794	1,424 c	1,456	1,247	1,048 c	1,209	566
8/19	579	1,654 c	2,444	2,761 c	1,501	799	1,114	581 c	1,109	1,705	1,475	1,367 c	1,794	1,424	1,456	1,247	1,048	1,209	566
8/20	579 c	1,654	2,444	2,761	1,501 c	799	1,114 c	581	1,109 c	1,705	1,475	1,367	1,794 c	1,424	1,456	1,247	1,048	1,209	566
8/21	579	1,654	2,444 c	2,761 c	1,501	799	1,114	581	1,109	1,705 c	1,475	1,367	1,794	1,424	1,456	1,247	1,048 c	1,211	566
8/22	579	1,654 c	2,444	2,761	1,501	799	1,114	581	1,109	1,705	1,475 c	1,367 c	1,794	1,424	1,456 c	1,247	1,048 c	1,211	566
8/23	579 c	1,654	2,444	2,761	1,501	799 c	1,114	581	1,109	1,705	1,475	1,367	1,794 c	1,424	1,456	1,247	1,048	1,211	566
8/24	579	1,654	2,445	2,762 c	1,501	799	1,114	581	1,109 c	1,705	1,475	1,367	1,794	1,424	1,456	1,247	1,048	1,211	566
8/25	579	1,654	2,445 c	2,762	1,501	799	1,114	581	1,109	1,705 c	1,475 c	1,367	1,794	1,424	1,456	1,247	c	1,211	566
8/26	579	1,654 c	2,445	2,762	1,501	799 c	1,114	581 c	1,109	1,705	1,475	1,367 c	1,794	1,424	1,456			1,211	566
8/27	579 c	1,654	2,445	2,762 c	1,501 c	799	1,114 c	581	1,109 c	1,705	1,475 c	1,367	1,794	1,424				1,211	566
8/28	579	1,654	2,445 c	2,762	1,501	799	1,114	581	1,109	1,705 c	1,475	1,367	1,794	1,424				1,211	566
8/29	579	1,654 c		2,762	1,501	799 c	1,114	581	1,109	1,705	1,475	1,367 c						1,211	566
8/30	579 c	1,654		2,762		799	1,114	581	1,109	1,705	1,475 c							1,211	566
8/31	579			2,762 c	c	799	1,114	581	1,109 c	1,705	1,475								
9/01	579		c	2,762		c				c		c							
9/02	579			2,762							c								
9/03	579 c		c	2,762 c															
9/04	579			2,762															
9/05	579			2,762															
9/06	579 c			2,762															
9/07			c	2,762 c															
9/08				2,762															
9/09				2,762															
9/10				2,762															
9/11				2,762															

"c" indicates days when commercial fishing periods occured in District 1.

Table 9. Historical cumulative daily percent passage of sockeye salmon in the Bethel test fishery, 1984 - 2002.

Date	Cumulative Daily Percent Passage by Year [a]																			
	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	Mean 84-99
6/01	0	0				0	0		0	0	0	0	0					0	0	0
6/02	0	0			0	0	0	0	0	0	0	0	0	0	0			0	0	0
6/03	0	0	0		0	0	0	0	0	0	0	0	0	0	0			0	0	0
6/04	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0	0	0
6/05	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0	0	0
6/06	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		1	0	0
6/07	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0		1	0	0
6/08	0	0	1	1	1	0	0	0	0	0	0	0	0	0	0	0		1	0	0
6/09	0	0	1	2	2	1	0	0	0	0	0	0	1	0	0	0		1	1	0
6/10	0	0	1	2	3	1	0	0	0	0	0	0	3	0	0	0		1	1	1
6/11	1	0	2	3	5	4	1	0	0	1	0	0	6	1	0	0		1	3	2
6/12	1	0	2	7	10	5	1	0	0	1	0	0	7	1	0	0		1	6	2
6/13	2	0	3	9	13	6	1	0	1	3	0	0	9	1	0	0		2	11	3
6/14	3	0	3	9	14	10	2	1	2	3	0	1	13	2	1	0		2	12	4
6/15	3	0	5	11	14	13	4	1	3	4	0	2	16	3	1	0	5	2	16	5
6/16	4	0	9	17	15	16	5	1	4	5	0	3	20	7	1	1	5	3	24	7
6/17	5	0	11	26	16	17	11	4	9	9	1	3	24	8	2	2	5	8	28	10
6/18	9	0	14	28	20	22	12	12	13	11	1	5	23	12	2	3	7	10	31	12
6/19	9	1	19	29	26	26	16	14	14	12	5	7	29	14	3	4	9	13	35	15
6/20	11	1	21	31	28	26	19	21	15	16	5	7	35	18	4	4	10	14	42	17
6/21	12	2	27	33	37	35	20	22	18	24	11	12	42	30	5	5	14	18	48	22
6/22	17	2	33	39	46	42	21	30	21	26	13	16	44	41	8	6	16	21	51	26
6/23	17	8	36	52	54	47	28	33	24	30	18	17	49	42	18	6	38	38	57	32
6/24	22	8	37	57	58	52	34	34	30	35	25	19	56	43	24	11	44	58	61	37
6/25	29	16	47	59	60	62	42	35	39	41	27	29	63	49	25	12	48	62	62	43
6/26	32	24	55	61	68	65	44	36	41	43	30	35	69	53	28	14	48	69	65	46
6/27	41	32	63	63	72	72	48	40	45	44	32	37	75	57	31	21	53	76	68	53
6/28	44	39	69	64	75	77	58	46	58	45	33	46	78	57	33	24	58	80	72	56
6/29	45	54	69	65	76	81	65	51	67	49	46	51	83	70	40	26	59	81	75	61
6/30	48	63	79	71	78	86	66	54	74	74	47	55	84	73	46	27	63	82	79	66
7/01	54	75	79	80	85	88	68	59	77	81	48	62	84	76	49	32	69	84	82	70
7/02	62	78	83	82	86	89	70	65	80	84	50	67	85	79	58	35	75	87	85	74
7/03	66	82	87	84	89	92	76	76	87	85	63	75	89	80	67	37	78	90	86	78
7/04	72	84	88	88	92	92	84	82	89	88	69	80	91	81	76	38	81	92	88	82
7/05	78	87	90	94	95	93	86	89	90	89	74	89	91	83	79	45	81	93	90	85
7/06	82	90	91	95	96	93	87	90	91	91	85	91	92	84	82	50	82	93	92	87
7/07	86	94	94	96	97	95	89	91	91	92	88	95	93	88	86	51	85	94	93	89
7/08	91	94	95	96	98	97	92	91	92	95	91	97	94	91	95	56	92	96	96	92
7/09	94	95	95	97	99	97	95	96	92	96	96	98	96	92	97	60	95	97	97	94
7/10	94	96	95	99	99	97	96	97	93	96	98	98	97	94	98	68	97	97	97	95
7/11	94	97	96	99	99	98	97	97	93	96	99	98	97	96	98	72	98	98	97	96
7/12	95	97	97	99	99	98	97	98	94	96	99	98	98	96	98	77	99	98	97	96
7/13	95	97	97	99	99	99	98	98	95	97	99	99	98	96	99	79	99	99	97	97
7/14	95	97	98	98	99	99	98	99	96	99	99	99	99	96	99	84	99	99	97	97
7/15	95	97	98	99	99	99	99	99	98	100	99	99	99	97	99	93	99	99	97	98
7/16	97	98	98	99	99	100	99	99	99	100	99	99	99	97	99	97	99	100	97	99
7/17	97	98	99	99	100	100	99	99	99	100	99	99	99	97	99	98	99	100	97	99
7/18	98	98	99	99	100	100	99	99	100	100	99	99	99	97	99	98	99	100	97	99
7/19	99	98	99	100	100	100	99	99	100	100	99	99	99	98	99	98	99	100	97	99
7/20	99	99	99	100	100	100	99	99	100	100	99	99	100	98	99	99	99	100	98	99

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Table 9. (page 2 of 2).

Date	Cumulative Daily Percent Passage by Year *																			
	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	Mean 84-98
7/21	99	99	99	100	100	100	99	99	100	100	100	99	100	99	99	99	99	100	98	99
7/22	99	100	99	100	100	100	99	100	100	100	100	99	100	99	99	99	99	100	98	99
7/23	99	100	100	100	100	100	99	100	100	100	100	99	100	99	99	100	99	100	98	100
7/24	99	100	100	100	100	100	99	100	100	100	100	99	100	99	99	100	99	100	98	100
7/25	100	100	100	100	100	100	99	100	100	100	100	99	100	99	99	100	99	100	98	100
7/26	100	100	100	100	100	100	99	100	100	100	100	99	100	99	100	100	99	100	99	100
7/27	100	100	100	100	100	100	99	100	100	100	100	99	100	99	100	100	100	100	99	100
7/28	100	100	100	100	100	100	100	100	100	100	100	100	100	99	100	100	100	100	99	100
7/29	100	100	100	100	100	100	100	100	100	100	100	100	100	99	100	100	100	100	99	100
7/30	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
7/31	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
8/01	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
8/02	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
8/03	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
8/04	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
8/05	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
8/06	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
8/07	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
8/08	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
8/09	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
8/10	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
8/11	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
8/12	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
8/13	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
8/14	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
8/15	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
8/16	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
8/17	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
8/18	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
8/19	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
8/20	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
8/21	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
8/22	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
8/23	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
8/24	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100		100	100	100
8/25	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100		100		100
8/26	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100			100		100
8/27	100	100	100	100	100	100	100	100	100	100	100	100	100	100						100
8/28	100	100	100	100	100	100	100	100	100	100	100	100	100	100						100
8/29	100	100		100	100	100	100	100	100	100	100	100								100

* The rectangles represent the central fifty percent of the run for that year based on the test-fish index; the shaded numbers represent the medians dates of passage.

Table 10. Historical daily CPUE for chum salmon catches in the Bethel test fishery, 1984 - 2002.

Date	Daily CPUE by Year*																		
	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002
5/30	0	0																	
5/31	0	0																	
6/01	0	0				3	0		0	0	0	0	0					0	0
6/02	0	0			0	0	0	0	0	0	10	0	0	0	0			0	0
6/03	0	0	0		0	0	0	0	0	0	0	0	0	0	0			0	0
6/04	3	0	0	0	0	0	0	0	0	0	3	0	0	3	0	0		0	0
6/05	0	0	6	3	9	3	0	0	0	0	0	0	15	0	0	0	3	3	0
6/06	0	0	10	12	0	0	3	0	7	3	7	0	29	0	0	3	6	0	6
6/07	0	0	0	6	3	6	0	0	3	0	3	0	12	0	0	0	0	0	0
6/08	2	0	0	6	11	10	0	0	3	0	0	0	23	0	0	0	3	0	3
6/09	10	0	28	15	38	9	0	0	3	0	10	0	35	0	0	3	3	0	30
6/10	10	0	0	6	29	12	0	0	6	6	0	0	54	0	0	0	3	0	0
6/11	3	0	0	21	63	3	0	0	12	3	3	6	87	0	0	0	0	0	53
6/12	15	0	9	13	91	17	3	3	9	0	13	0	65	5	3	0	0	0	43
6/13	8	3	0	19	67	20	0	0	44	9	28	3	175	0	9	0	0	6	34
6/14	11	0	9	3	19	7	13	6	21	7	56	6	321	0	3	3	0	0	22
6/15	5	3	38	10	45	39	0	3	105	13	143	26	204	9	6	0	0	0	64
6/16	31	3	46	42	26 c	24	3	6	116	3	58	45	168	17	9	3	0	3	13
6/17	41	0	121	122	56	4	22	0	55	10	52	51	171 c	12	3	3	3	6	40
6/18	75	0	108	47 c	195	49	20	0	83 c	35	20	63	187	34	0	3	9	28	214
6/19	9	65	151	9	160	68 c	28	0	0	0	263	36	594	14	0	0	34	14	113
6/20	20	115 c	84	60	50 c	44	9 c	25 c	33	11	28	80	742 c	20	6	3	43	6	136
6/21	52	3	87	24	143	78	30	3	58	44	278	153	620	119	18	12	38	0	35
6/22	6	25	104	200	251	56	22	9	45 c	98	125	94 c	357	53	26	6	31	5	67
6/23	108	28	203	103	248	79 c	63	14	53	65	190	111	498	20 c	100	3	69	20	143
6/24	167	3 c	112	48 c	86 c	167	77	6 c	29	128	112 c	51	685 c	48	164 c	11	26	65	134
6/25	188 c	52	460	86	16	208	32 c	9	38 c	107 c	10	219	513	59	23	6	74	153	148
6/26	86	65	177 c	100	63	111 c	49	32	43	0	17	457 c	325	111	39	0	39	211	137
6/27	108	68 c	109	87	306	134	168	58	212	7	16	26	80	32	110	8	71	62	156
6/28	105 c	24	35	105	109 c	78	72	50	107	13	7	59	80	0	110	0	140	17	276
6/29	22	108	6	268	108	122	87 c	54	130 c	30	111	148 c	93	63	296 c	6	102	14	150
6/30	56	177	105 c	249 c	88	106 c	32	8	136	153	7	111	63	23	91	3 c	51	3	68
7/01	115	77 c	3	152	382	115	67	30 c	124	120	10	164	82	56	82	12	192	22	163
7/02	160 c	31	70	120	188 c	88	28	97	43	19	19	144	114 c	20	235	17	314	89	381
7/03	66	24	193 c	34 c	437	79 c	200	22	267	125	192	291 c	67	39	98 c	12	253	198	108
7/04	209	5 c	123	62	469	37	214	33	322	82	141	168	112	20	70	6	310	248	379
7/05	163 c	40	209	177	192 c	192 c	198 c	6	189	78	88	214	149 c	78	53	17	85	79	333
7/06	48	25	140	389	120	59	26	12 c	105 c	89	383	58 c	128	41	85	8	25	39	320
7/07	60	53	62 c	463 c	27	117	171	12	13	24	245	274	41	129	141	26	49	61	307
7/08	48	3	68	38	34 c	85 c	136	9	139	71	732	271	23 c	110	234	20	67	70	281
7/09	52 c	5	248	277	62	57	61 c	63	48	31	394	219	32	76	84	9	52	25	328
7/10	39	0	34 c	208	142	86	81	45	46	28	253	27 c	133	33	42	41	22	148	150
7/11	7	0	87	93 c	83 c	3 c	78	26	48	37	69	98	31	42	11 c	12	77	295	99
7/12	16 c	3	153	53	65	7	34	43	59	62	33	73	37 c	34	3	13	31	278	123
7/13	16	30	134	87	63	55	23	21 c	51	270	108	49	62	45	4	6	75	357	96
7/14	7	6	25	255	38 c	35 c	33 c	28	49	67	57 c	66 c	52	29	1	18	99	159	323
7/15	91	0	10	67 c	69	41	34	29	27	140	39	30	121	64	0	28	20	15	276
7/16	24 c	6	16	33	82	20	37	12	21	88	32	17	113 c	62	4	38	25	235	178
7/17	15	32	43	107	64	17	34	16	22	79	19	15	81	20	0	40	82	161	204
7/18	19	9	43	125	57 c	23 c	59	51 c	25	53	48	21 c	42	33	4	34	15	58	47
7/19	16	19	50	202	16	16	66	59	29	94	26 c	8	96 c	33	10	28	4	90	19
7/20	9	7	36	170 c	29	29	73	16	4	52	9	38	52	33	14	21	10	40	33
7/21	18	5	52	23	36 c	13	57	40	3	31	0	35 c	57	36	14	14	11	17	36
7/22	1	12	34	12	10	7	40	57 c	0	134	82	42	68 c	15	7 c	22	17	11	29
7/23	9	9	26	2	6	13	35	33	23	29	38 c	43	19	14	4	12	1	17	41
7/24	3	2	29	28	24	0	24	12	6	9	55	27	42	44	4	10	0	17	41
7/25	8	9	11	41	15 c	4	9	58 c	10	0	28	16	25 c	34	6	0	8	15	60
7/26	7	6	3	29	13	0	2	8	7	2	9 c	27	24	20	6	8	2	8	81

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Table 10. (page 2 of 2).

Date	Daily CPUE by Year*																		
	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002
7/27	7	2	3	4	18	0 c	18	49	8	7	9	17	19	6	6 c	2	6	14	25
7/28	3	4	7	6	10 c	0	35	19	9	4	18	24	8	6	9	6	4	4	59
7/29	8	10	11	9	13	1	36	36 c	4	5	11 c	9	8 c	16	2	0	3	11	33
7/30	6 c	4	5	2	23	0	9	14	5	2	5	2	11	2	12	2	4	2	28
7/31	1	1	0 c	1	6	14	2	24	0	0 c	14	10	2 c	2 c	0	2	6	6	46
8/01	2	0	5	4	5 c	6	0 c	8 c	0	5	16	8	4	8	0 c	0	1 c	0	20
8/02	3 c	1 c	0	3	4	8	6	6	15	7	10	2	5	10	0	0	5	5	2
8/03	3	2	4	9	6	4 c	6	12	2 c	2	2	12	0 c	18	4	6	6	0	21
8/04	6 c	9	0 c	11	3 c	1	2	10	0	11 c	2 c	5 c	0	14	8	2	5 c	0	9
8/05	2	0 c	0	3	3	0	1	0 c	0	9	2	2	0	0	0	0	2 c	5	2
8/06	0	4	5	4 c	7	3	23 c	2	4 c	2 c	0	4	0	0 c	0 c	0	0	3	5
8/07	0	6	1 c	0	19	2 c	6	2	0	0	4	4	0 c	2	0	0 c	2	5	5
8/08	0	0 c	0	0	3 c	0	0	5 c	0	0	9	0 c	0	2	2	0	1 c	7	8
8/09	0 c	0	2	2	3	2 c	4	2	4	0 c	7 c	9	0	4	0	0	0 c	3	12
8/10	0	36	0	2	4 c	0	2 c	3	0	0	2	0	2 c	2	2	0	0	8	2
8/11	0	1	0 c	0	3	0	2	4	2 c	0	4	2	0	4	0 c	0	0	4	2
8/12	0	0 c	0	0	2 c	0 c	4	3 c	6	0	2 c	0 c	0	0 c	0	0	0 c	0	6
8/13	0 c	0	0 c	0 c	0	0	0 c	2	0	0	0	0	0 c	0	4	0	0	0	0
8/14	0	0	2	0	0	0	0	0 c	0 c	0 c	0	2	0	0	0	0	0 c	2	2
8/15	0	0 c	2 c	4	0 c	0 c	2	2	0	0	0 c	0	0	0	0	0	0	1	2
8/16	0 c	0	0	1	0	0	2 c	0	0	0	2	0 c	0 c	0	0	0	2	0	0
8/17	0	0	0	0 c	0	0	0	2	0 c	0 c	0	0	0	0	0 c	0	0 c	0	0
8/18	2	0	0 c	0	0 c	0 c	0	2	0	0	2 c	0	0	0 c	0	0	0 c	0	0
8/19	0	0 c	0	0 c	0	0	0	0 c	0	2	0	0 c	0	0	0	0	0	0	0
8/20	0 c	0	0	0	0 c	0	0 c	0	0 c	0	0	0	0 c	2	2	0	0	4	0
8/21	0	0	0 c	0 c	0	0	0	0	0	0 c	0	0	0	2	0	0	0 c	0	0
8/22	0	0 c	0	0	0	0	2	0	0	0	0 c	2 c	0	0	0 c	0	0 c	0	1
8/23	0 c	0	0	0	0	0 c	0	0	0	0	0	0	0 c	2	0	0	2		2
8/24	0	0	0	0 c	0	0	0	0	0 c	0	0	0	0	0	0	0			0
8/25	0	0	0 c	0	0	0	0	0	0	0 c	0 c	0	0	0	0	0	c		
8/26	0	0 c	0	0	0	0 c	0	0 c	0	0	0	0 c	0	0	0				
8/27	0 c	0	0	0 c	0 c	0	2 c	0	0 c	0	0 c	0	0	0					
8/28	0	0	0 c	0	0	0	0	0	0	0 c	0	0	0	0					
8/29	0	0 c		0	0	0 c	0	0	0	2	0	0 c							
8/30	0 c	0		0		0	0	0	0	0	0 c								
8/31	0			0 c	c	0	0	0	0 c	0									
9/01	0		c	0		c				c		c							
9/02	0			0							c								
9/03	0 c		c	0 c															
9/04	0			0															
9/05	0			0															
9/06	0 c			0															
9/07			c	0 c															
9/08				0															
9/09				0															
9/10				0															
9/11				0															

"c" indicates days when commercial fishing periods occured in District 1.

* Shaded columns represent years when the biological escapement goal of 30,000 was not achieved at Kogrukluk River weir.

Table 11. Historical cumulative daily CPUE for chum salmon catches in the Bethel test fishery, 1984 - 2002.

Date	Daily CPUE by Year*																		
	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002
5/30	0	0																	
5/31	0	0																	
6/01	0	0				3	0		0	0	0	0	0					0	0
6/02	0	0			0	3	0	0	0	0	10	0	0	0	0			0	0
6/03	0	0	0		0	3	0	0	0	0	18	0	0	0	0			0	0
6/04	5	0	0	0	0	3	0	0	0	0	21	0	0	3	0	0		0	0
6/05	5	0	6	3	9	5	0	0	0	0	21	0	15	3	0	0	3	3	0
6/06	5	0	15	16	9	9	3	0	7	3	28	0	45	3	0	3	9	3	8
6/07	5	0	18	22	12	11	3	0	10	3	31	0	56	3	0	3	9	3	8
6/08	7	0	24	30	23	22	3	0	13	3	31	0	80	3	0	3	12	3	11
6/09	17	0	53	45	61	30	3	0	16	3	41	0	115	3	0	6	15	3	41
6/10	29	0	59	52	90	42	3	0	22	9	41	0	169	3	0	6	18	3	50
6/11	30	0	68	72	153	45	3	0	34	17	44	5	237	3	0	6	18	3	103
6/12	45	0	77	86	244	62	6	3	43	17	57	8	301	3	0	6	18	3	148
6/13	53	3	77	105	331	82	6	3	67	27	86	10	478	6	5	6	18	9	180
6/14	63	3	96	108	350	93	18	9	108	33	142	16	797	0	11	9	18	9	202
6/15	68	5	124	117	396	126	18	9	212	46	285	42	1,001	17	17	9	18	9	285
6/16	100	6	170	159	421 c	150	21	9	328	49	343	90	1,170	34	20	12	18	11	299
6/17	141	16	290	281	477	154	43	9	383	59	395	141	1,340	45	34	15	20	17	338
6/18	216	25	398	322 c	671	203	63	9	426 c	93	416	204	1,527	79	34	18	29	53	552
6/19	225	90	549	328	832	271 c	91	9	426	93	678	240	2,121	93	46	18	43	67	665
6/20	245	205 c	613	388	881 c	315	100 c	34 c	460	105	705	320	2,864 c	119	60	18	86	73	801
6/21	297	207	700	412	1,025	391	130	37	518	149	983	473	3,684	238	77	30	124	73	838
6/22	305	232	804	613	1,278	448	152	46	567 c	244	1,107	567 c	4,041	290	117	36	155	78	902
6/23	413	260	1,007	715	1,522	525 c	205	60	620	319	1,297	678	4,539	310 c	256	39	224	96	1,047
6/24	580	263 c	1,119	783 c	1,808 c	692	262	66 c	849	436	1,408 c	729	5,204	358	348 c	50	250	153	1,181
6/25	746 c	315	1,579	829	1,824	909	314 c	74	668 c	543 c	1,419	948	5,717 c	417	365	56	324	346	1,329
6/26	832	380	1,756 c	928	1,887	1,011 c	383	106	732	543	1,436	1,105 c	6,042	528	410	56	363	557	1,498
6/27	941	438 c	1,865	1,015	1,993	1,145	531	163	943	550	1,451	1,130	6,132	560	448	64	435	619	1,622
6/28	1,045 c	463	1,901	1,120	2,101 c	1,223	603	213	1,050	563	1,458	1,190	6,211	560	484	64	574	637	1,897
6/29	1,068	643	1,907	1,389	2,210	1,345	690 c	277	1,180 c	594	1,569	1,335 c	6,305 c	643	562 c	70	678	651	2,049
6/30	1,126	820	2,012 c	1,635 c	2,298	1,452 c	722	295	1,316	746	1,575	1,447	6,368	666	665	73 c	727	654	2,136
7/01	1,241	896 c	2,015	1,787	2,680	1,587	789	315 c	1,440	866	1,585	1,510	6,459	719	712	84	908	676	2,299
7/02	1,401 c	896	2,065	1,906	2,868 c	1,633	817	406	1,463	885	1,604	1,758	6,573	736	849	102	1,222	764	2,669
7/03	1,487	952	2,277 c	1,941 c	3,306	1,711 c	1,017	427	1,750	1,010	1,796	2,045 c	6,641	794	980 c	113	1,475	900	2,768
7/04	1,677	957 c	2,481	2,003	3,775	1,768	1,231	461	2,072	1,092	1,937	2,213	6,753	815	1,109	119	1,794	1,148	3,147
7/05	1,840 c	997	2,709	2,180	3,966 c	1,950 c	1,419 c	466	2,261	1,170	2,025	2,427	6,902 c	892	1,150	136	1,879 c	1,227	3,480
7/06	1,888	1,022	2,850	2,568	4,088	2,009	1,445	478 c	2,366 c	1,209	2,408	2,485 c	7,029	933	1,195	145	1,901	1,257	3,800
7/07	1,948	1,116	2,912 c	3,032 c	4,114	2,128	1,618	490	2,379	1,233	2,653	2,759	7,070	1,061	1,257	165	1,941	1,328	4,107
7/08	1,996	1,118	2,979	3,070	4,148 c	2,190 c	1,754	499	2,518	1,304	3,385	3,029	7,093	1,171	1,377	165	2,008	1,397	4,367
7/09	2,048 c	1,123	3,225	3,342	4,240	2,247	1,815 c	559	2,567	1,335	3,779	3,248	7,125 c	1,247	1,413	194	2,063	1,423	4,696
7/10	2,087	1,123	3,260 c	3,550	4,388	2,314	1,896	605	2,613	1,363	4,031	3,275 c	7,258	1,280	1,424	235	2,085	1,568	4,848
7/11	2,093	1,123	3,347	3,612 c	4,471 c	2,317 c	1,978	631	2,661	1,400	4,100	3,373	7,289	1,323	1,427 c	248	2,162	1,863	4,945
7/12	2,109 c	1,126	3,510	3,665	4,538	2,324	2,048	674	2,719	1,481	4,133	3,446	7,326	1,377	1,430	260	2,193	2,141	5,068
7/13	2,125	1,137	3,644	3,752	4,599	2,379	2,071	695 c	2,770	1,731	4,241	3,495	7,408	1,421	1,436	269	2,268	2,498	5,165
7/14	2,132	1,137	3,669	4,007	4,637 c	2,414 c	2,104 c	723	2,820	1,798	4,298 c	3,561 c	7,459 c	1,441	1,440	278	2,334	2,667	5,488
7/15	2,224	1,137	3,679	4,068 c	4,706	2,424	2,128	743	2,846	1,938	4,336	3,591	7,581	1,505	1,440	302	2,360	2,682	5,758
7/16	2,248 c	1,142	3,696	4,101	4,788	2,445	2,165	765	2,867	2,026	4,368	3,608	7,694	1,556	1,442	340	2,385	2,917	5,938
7/17	2,262	1,174	3,739	4,208	4,852	2,462	2,190	770	2,890	2,101	4,383	3,623	7,775	1,577	1,446	386	2,477	3,078	6,140
7/18	2,276	1,183	3,782	4,333	4,909 c	2,485 c	2,249	821 c	2,915	2,154	4,431	3,645 c	7,817	1,630	1,448	420	2,492	3,136	6,187
7/19	2,292	1,203	3,831	4,535	4,925	2,501	2,315	837	2,944	2,248	4,457 c	3,653	7,913	1,662	1,446	449	2,496	3,185	6,206
7/20	2,301	1,209	3,867	4,706 c	4,954	2,530	2,388	853	2,948	2,299	4,465	3,690	7,965	1,695	1,448	470	2,566	3,225	6,238
7/21	2,318	1,214	3,919	4,729	4,960 c	2,543	2,445	894	2,952	2,350	4,465	3,725 c	8,022	1,732	1,448	483	2,517	3,242	6,274
7/22	2,319	1,225	3,953	4,740	4,969	2,551	2,485	951 c	2,952	2,484	4,547	3,767	8,090	1,747	1,448 c	506	2,534	3,254	6,302
7/23	2,329	1,231	3,979	4,748	5,005	2,564	2,520	983	2,975	2,512	4,585 c	3,810	8,109	1,761	1,448	517	2,538	3,271	6,343
7/24	2,331	1,233	4,008	4,778	5,030	2,564	2,544	995	2,981	2,521	4,641	3,837	8,151	1,805	1,448	526	2,538	3,288	6,384
7/25	2,339	1,243	4,019	4,817	5,045 c	2,568	2,552	1,051 c	2,991	2,521	4,668	3,853	8,178	1,839	1,448	526	2,546	3,303	6,444
7/26	2,346	1,248	4,021	4,837	5,058	2,568	2,554	1,059	2,999	2,523	4,675 c	3,879	8,200	1,858	1,458	534	2,548	3,312	6,506

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Table 11. (page 2 of 2).

Date	Daily CPUE by Year*																		
	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002
7/27	2,353	1,251	4,023	4,841	5,075	2,568 c	2,572	1,108	3,006	2,530	4,684	3,897	8,219	1,864	2,299 c	536	2,554	3,326	8,530
7/28	2,356	1,255	4,031	4,847	5,085 c	2,568	2,607	1,126	3,015	2,534	4,702	3,920	8,224	1,870	2,299	542	2,557	3,330	6,590
7/29	2,364	1,265	4,042	4,852	5,098	2,570	2,643	1,162 c	3,019	2,539	4,712 c	3,929	8,232	1,886	2,301	542	2,560	3,340	6,623
7/30	2,370 c	1,269	4,047	4,854	5,120	2,570	2,651	1,175	3,025	2,541	4,719	3,931	8,243	1,888	2,313	544	2,564	3,342	6,651
7/31	2,370	1,270	4,047 c	4,856	5,126	2,584	2,653	1,199	3,025	2,547 c	4,732	3,942	8,244	1,890 c	2,313	546	2,570	3,348	6,697
8/01	2,372	1,270	4,051	4,860	5,131 c	2,590	2,659 c	1,207 c	3,025	2,552	4,748	3,950	8,248 c	1,898	2,313 c	546	2,571 c	3,348	6,717
8/02	2,375 c	1,271 c	4,051	4,863	5,135	2,598	2,665	1,213	3,040	2,558	4,759	3,952	8,253	1,907	2,313	546	2,576	3,353	6,719
8/03	2,378	1,272	4,055	4,872	5,142	2,602 c	2,671	1,224	3,042 c	2,561	4,761	3,964	8,253	1,925	2,317	546	2,581	3,353	6,740
8/04	2,383 c	1,281	4,055 c	4,884	5,145 c	2,603	2,672	1,234	3,042	2,571 c	4,763 c	3,970 c	8,253	1,939	2,322	548	2,586	3,353	6,748
8/05	2,385	1,281 c	4,055	4,887	5,148	2,603	2,673	1,234 c	3,042	2,581	4,765	3,972	8,253	1,939	2,322	548	2,588 c	3,358	6,751
8/06	2,385	1,285	4,058	4,891 c	5,155	2,606	2,697 c	1,236	3,046 c	2,583 c	4,765	3,977	8,253 c	1,939 c	2,322 c	548	2,588	3,361	6,755
8/07	2,385	1,290	4,059 c	4,891	5,174	2,608 c	2,703	1,238	3,046	2,583	4,769	3,981	8,253	1,941	2,322	548 c	2,590	3,367	6,760
8/08	2,385	1,290 c	4,059	4,891	5,177 c	2,608	2,703	1,243 c	3,046	2,583	4,778	3,981 c	8,253	1,943	2,324	548	2,590 c	3,373	6,769
8/09	2,385 c	1,290	4,062	4,893	5,180	2,610 c	2,707	1,245	3,050	2,583 c	4,785 c	3,981	8,253	1,947	2,324	548	2,590 c	3,376	6,781
8/10	2,385	1,326	4,062	4,895	5,184 c	2,610	2,705 c	1,248	3,050	2,583	4,787	3,981	8,255 c	1,949	2,326	548	2,590	3,384	6,783
8/11	2,385	1,327	4,062 c	4,895	5,187	2,610	2,710	1,252	3,052 c	2,583	4,791	3,983	8,255	1,953	2,326 c	548	2,590	3,388	6,784
8/12	2,385	1,327 c	4,062	4,895	5,189 c	2,610 c	2,714	1,255 c	3,058	2,583	4,793 c	3,983 c	8,255	1,953 c	2,326	548	2,590 c	3,388	6,791
8/13	2,385 c	1,327	4,062 c	4,895 c	5,189	2,610	2,714 c	1,257	3,058	2,583	4,793	3,983	8,255 c	1,953	2,330	548	2,590	3,388	6,791
8/14	2,385	1,327	4,063	4,895	5,189	2,610	2,714	1,257 c	3,058 c	2,583 c	4,793	3,985	8,255	1,953	2,330	548	2,590 c	3,390	6,792
8/15	2,385	1,327 c	4,066 c	4,899	5,189 c	2,610 c	2,716	1,258	3,058	2,583	4,793 c	3,985	8,255	1,953	2,330	548	2,590	3,391	6,794
8/16	2,385 c	1,327	4,066	4,900	5,189	2,610	2,716 c	1,258	3,058	2,583	4,795	3,985 c	8,255 c	1,953	2,330	548	2,592	3,391	6,794
8/17	2,385	1,327	4,066	4,900 c	5,189	2,610	2,716	1,260	3,058 c	2,583 c	4,795	3,985	8,255	1,953	2,330 c	548	2,592 c	3,391	6,794
8/18	2,387	1,327	4,066 c	4,900	5,189 c	2,610 c	2,718	1,262	3,058	2,583	4,797 c	3,985	8,255	1,953 c	2,330	548	2,592 c	3,391	6,794
8/19	2,387	1,327 c	4,066	4,900 c	5,189	2,610	2,718	1,262 c	3,058	2,585	4,797	3,985 c	8,255	1,953	2,330	548	2,592	3,391	6,794
8/20	2,387 c	1,327	4,066	4,900	5,189 c	2,610	2,718 c	1,262	3,058 c	2,585	4,797	3,985	8,255 c	1,955	2,332	548	2,592	3,395	6,794
8/21	2,387	1,327	4,066 c	4,900 c	5,189	2,610	2,718	1,262	3,058	2,585 c	4,797	3,985	8,255	1,957	2,332	548	2,592 c	3,395	6,794
8/22	2,387	1,327 c	4,066	4,900	5,189	2,610	2,720	1,262	3,058	2,585	4,797 c	3,987 c	8,255	1,957	2,332 c	548	2,592 c	3,395	6,795
8/23	2,387 c	1,327	4,066	4,900	5,189	2,610 c	2,720	1,262	3,058	2,585	4,797	3,987	8,255	1,959	2,332	548	2,594	3,395	6,796
8/24	2,387	1,327	4,066	4,900 c	5,189	2,610	2,720	1,262	3,058 c	2,585	4,797	3,987	8,255	1,959	2,332	548	2,594	3,395	6,796
8/25	2,387	1,327	4,066 c	4,900	5,189	2,610	2,720	1,262	3,058	2,585 c	4,797 c	3,987	8,255	1,959	2,332	548	c	3,395	6,796
8/26	2,387	1,327 c	4,066	4,900	5,189	2,610 c	2,720	1,262 c	3,058	2,585	4,797	3,987 c	8,255	1,959	2,332			3,395	6,796
8/27	2,387 c	1,327	4,066	4,900 c	5,189 c	2,610	2,722 c	1,262	3,058 c	2,585	4,797 c	3,987	8,255 c	1,959				3,395	6,796
8/28	2,387	1,327	4,066 c	4,900	5,189	2,610	2,722	1,262	3,058	2,585 c	4,797	3,987	8,255	1,959				3,395	6,796
8/29	2,387	1,327 c		4,900	5,189	2,610 c	2,722	1,262	3,058	2,587	4,797	3,987 c						3,395	6,796
8/30	2,387 c	1,327		4,900		2,610	2,722	1,262	3,058	2,587	4,797 c							3,395	6,796
8/31	2,387			4,900 c	c	2,610	2,722	1,262	3,058 c	2,587								3,395	6,796
9/01	2,387		c	4,900		c				c		c						3,395	6,796
9/02	2,387			4,900							c							3,395	6,796
9/03	2,387 c		c	4,900 c														3,395	6,796
9/04	2,387			4,900														3,395	6,796
9/05	2,387			4,900														3,395	6,796
9/06	2,387 c			4,900														3,395	6,796
9/07			c	4,900 c														3,395	6,796
9/08				4,900															
9/09				4,900															
9/10				4,900															
9/11				4,900															

"c" indicates days when commercial fishing periods occured in District 1.

* Shaded columns represent years when the biological escapement goal of 30,000 was not achieved at Kognakuk River weir.

Table 12. Historical cumulative daily percent passage of chum salmon in the Bethel test fishery, 1984 - 2002.

Date	Cumulative Daily Percent Passage by Year *																			
	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	Mean 84-99
6/01	0	0				0	0		0	0	0	0	0						0	0
6/02	0	0			0	0	0	0	0	0	0	0	0	0	0			0	0	0
6/03	0	0	0		0	0	0	0	0	0	0	0	0	0	0			0	0	0
6/04	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0	0	0
6/05	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/06	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	1	0	0	0	0
6/07	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	1	0	0	0	0
6/08	0	0	1	1	0	1	0	0	0	0	1	0	1	0	0	1	0	0	0	0
6/09	1	0	1	1	1	1	0	0	1	0	1	0	1	0	0	1	1	0	1	1
6/10	1	0	1	1	2	2	0	0	1	0	1	0	2	0	0	1	1	0	1	1
6/11	1	0	2	1	3	2	0	0	1	1	1	0	3	0	0	1	1	0	2	1
6/12	2	0	2	2	5	2	0	0	1	1	1	0	4	0	0	1	1	0	2	1
6/13	2	0	2	2	6	3	0	0	3	1	2	0	6	0	1	1	1	0	3	2
6/14	3	0	2	2	7	3	1	1	4	1	3	0	10	0	1	2	1	0	3	2
6/15	3	0	3	2	8	5	1	1	7	2	6	1	12	1	1	2	1	0	4	3
6/16	4	1	4	3	8	6	1	1	11	2	7	2	14	2	1	2	1	0	4	4
6/17	6	1	7	6	9	6	2	1	13	2	8	4	16	2	2	3	1	0	5	5
6/18	9	2	10	7	13	8	2	1	14	4	9	5	18	4	2	3	1	2	8	6
6/19	9	7	14	7	16	10	3	1	14	4	14	6	26	5	2	3	2	2	10	8
6/20	10	15	15	8	17	12	4	3	15	4	15	8	35	6	2	3	3	2	12	10
6/21	12	16	17	8	20	15	5	3	17	6	20	12	45	12	2	5	5	2	12	12
6/22	13	17	20	13	25	17	6	4	19	9	23	14	49	15	3	7	6	2	13	14
6/23	17	20	25	15	29	20	8	5	20	12	27	17	55	16	12	7	9	3	15	17
6/24	24	29	28	16	31	27	10	5	21	17	29	18	63	18	19	9	10	5	17	20
6/25	31	24	39	17	31	34	12	6	23	21	30	24	69	21	20	10	13	10	20	24
6/26	35	29	43	19	33	39	13	8	24	21	30	28	73	27	21	10	14	16	22	27
6/27	39	33	46	21	38	44	20	13	31	21	30	28	74	29	26	12	17	18	24	30
6/28	44	35	47	23	40	47	22	17	34	22	30	30	75	29	31	12	22	19	28	32
6/29	45	48	47	28	43	52	25	22	39	23	33	33	76	33	43	13	26	19	30	36
6/30	47	62	49	33	44	56	27	23	43	29	33	36	77	34	47	13	28	19	31	39
7/01	52	68	50	36	52	60	29	25	47	33	33	40	78	37	51	15	35	20	34	42
7/02	59	70	51	39	55	63	30	32	48	34	33	44	80	38	61	19	47	22	39	45
7/03	61	72	56	40	64	66	37	34	57	39	37	51	80	41	65	21	57	27	41	50
7/04	70	72	59	41	73	68	45	36	68	42	40	56	82	42	68	22	69	34	46	54
7/05	77	75	67	44	76	75	52	37	74	45	42	61	84	46	70	25	72	36	51	58
7/06	79	77	70	52	79	77	53	38	77	47	50	62	85	48	73	26	73	37	56	61
7/07	82	84	72	62	79	81	59	39	78	48	55	69	86	54	79	30	75	39	60	65
7/08	84	84	73	63	80	84	64	40	82	50	71	76	86	60	89	34	77	41	64	69
7/09	86	85	79	68	82	86	67	44	84	52	79	81	86	64	93	35	80	42	69	72
7/10	87	85	80	72	85	89	70	48	85	53	84	82	88	65	94	43	80	46	71	74
7/11	88	85	82	74	86	89	73	50	87	54	85	85	88	68	95	45	83	50	73	76
7/12	88	85	86	75	87	89	75	53	89	57	86	86	89	70	95	47	85	63	75	78
7/13	88	86	90	77	89	91	76	55	91	67	88	88	90	73	95	49	87	74	76	80
7/14	89	86	90	82	89	92	77	57	92	70	90	89	90	74	95	51	90	79	81	82
7/15	93	86	90	83	91	93	78	59	93	75	90	90	92	77	95	55	91	79	85	84
7/16	94	86	91	84	92	94	80	60	94	78	91	90	93	79	95	62	92	86	87	86
7/17	95	88	92	86	94	94	81	61	95	81	91	91	94	80	95	70	96	91	90	88
7/18	95	89	93	88	95	96	83	65	95	83	92	91	95	83	96	77	96	92	91	89
7/19	96	91	94	93	95	96	85	66	96	87	93	92	96	85	96	82	96	94	91	91
7/20	96	91	95	96	95	97	88	68	96	89	93	93	96	87	97	86	97	95	92	92

- continued -

Table 12. (page 2 of 2).

Date	Cumulative Daily Percent Passage by Year *																			
	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	Mean 84-99
7/21	97	91	96	97	96	97	90	71	97	91	93	93	97	88	97	88	97	96	92	93
7/22	97	92	97	97	98	98	91	75	97	96	95	94	98	89	97	92	98	96	93	94
7/23	98	93	98	97	96	98	93	78	97	97	96	96	98	90	98	94	98	96	93	95
7/24	98	93	99	97	97	98	94	79	97	98	97	96	99	92	98	96	98	97	94	96
7/25	98	94	99	98	97	98	94	83	98	98	97	97	99	94	98	96	98	97	95	96
7/26	98	94	99	99	97	98	94	84	98	98	97	97	99	95	98	98	98	98	96	97
7/27	99	94	99	99	98	98	95	88	98	98	98	98	100	95	99	98	99	98	96	97
7/28	99	95	99	99	98	98	96	89	99	98	98	98	100	95	99	99	99	98	97	97
7/29	99	95	99	99	98	98	97	92	99	98	98	99	100	96	99	99	99	98	97	98
7/30	99	96	100	99	99	98	97	93	99	98	98	99	100	96	99	99	99	98	98	98
7/31	99	96	100	99	99	99	98	95	99	99	99	99	100	96	99	100	99	99	99	98
8/01	99	96	100	99	99	99	98	96	99	99	99	99	100	97	99	100	99	99	99	99
8/02	100	96	100	99	99	100	98	96	99	99	99	99	100	97	99	100	99	99	99	99
8/03	100	96	100	99	99	100	98	97	99	99	99	99	100	98	99	100	100	99	99	99
8/04	100	96	100	100	99	100	98	98	99	99	99	100	100	99	100	100	100	99	99	99
8/05	100	96	100	100	99	100	98	98	99	100	99	100	100	99	100	100	100	99	99	99
8/06	100	97	100	100	99	100	99	98	100	100	99	100	100	99	100	100	100	99	99	99
8/07	100	97	100	100	100	100	99	98	100	100	99	100	100	99	100	100	100	99	99	99
8/08	100	97	100	100	100	100	99	98	100	100	100	100	100	99	100	100	100	99	100	100
8/09	100	97	100	100	100	100	100	99	100	100	100	100	100	99	100	100	100	99	100	100
8/10	100	100	100	100	100	100	100	99	100	100	100	100	100	99	100	100	100	100	100	100
8/11	100	100	100	100	100	100	100	99	100	100	100	100	100	100	100	100	100	100	100	100
8/12	100	100	100	100	100	100	100	99	100	100	100	100	100	100	100	100	100	100	100	100
8/13	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
8/14	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
8/15	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
8/16	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
8/17	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
8/18	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
8/19	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
8/20	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100		100	100	100
8/21	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100		100	100	100
8/22	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100		100	100	100
8/23	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100			100	100
8/24	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100			100	100
8/25	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100				100
8/26	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100					100
8/27	100	100	100	100	100	100	100	100	100	100	100	100	100	100						100
8/28	100	100	100	100	100	100	100	100	100	100	100	100	100	100						100
8/29	100	100		100	100	100	100	100	100	100	100	100								100

* The rectangles represent the central fifty percent of the run for that year based on the test-fish index; the shaded numbers represent the medians dates of passage.

Table 13. Historical daily CPUE for coho salmon catches in the Bethel test fishery, 1984 - 2002.

Date	Daily CPUE by Year[a]																		
	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002
7/10	0	0	0 c	0	0	0	0	0	0	0	0	0 c	0	0	0	0	0	0	0
7/11	0	0	0	0 c	0 c	0 c	0	0	0	0	0	0	2	0	0 c	0	0	1	2
7/12	0	0	0	0	0	0	0	0	0	0	0	0	8 c	0	0	0	2	6	0
7/13	0	0	0	0	2	2	0	0 c	6	7	0	0	8	0	0	0	0	0	0
7/14	0	0	0	6	0 c	2 c	0 c	0	2	0	0 c	0 c	10	0	0	0	2	0	1
7/15	0	0	2	0 c	0	2	0	0	0	0	2	0	8	0	0	0	4	0	1
7/16	2	0	2	0	0	0	0	0	2	0	2	0	17 c	2	0	0	21	7	2
7/17	2	2	2	0	4	2	0	0	1	0	0	0	35	0	0	2	41	4	2
7/18	3	0	2	0	0 c	4 c	0	0 c	7	0	2	0 c	17	0	0	0	13	4	0
7/19	7	2	4	0	0	0	4	2	9	9	9 c	0	122 c	6	0	1	6	3	2
7/20	7	4	4	0 c	4	10	13	6	5	2	0	4	108	8	2	4	4	4	0
7/21	5	5	10	0	2 c	7	10	7	3	5	0	0 c	194	12	0	0	37	0	0
7/22	5	20	8	7	4	16	7	4 c	7	24	22	0	120 c	6	0 c	0	46	8	5
7/23	12	0	21	2	0	6	3	6	2	28	6 c	6	97	10	0	3	72	10	11
7/24	9	2	54	0	12	6	8	4	4	9	48	2	240	38	4	2	110	9	19
7/25	16	24	29	0	16 c	4	2	7 c	9	6	38	18	675 c	57	12	0	47	4	25
7/26	12	21	26	0	8	0	2	2	11	4	11 c	6	615	31	14	6	41	8	66
7/27	18	8	74	2	44	2 c	10	23	10	20	13	11	256	20	8 c	4	136	65	74
7/28	29	15	20	2	72 c	9	43	34	11	71	27	15	170	6	14	0	224	0	127
7/29	60	40	64	12	28	8	35	42 c	23	67	26 c	4	517 c	31	4	2	153	65	108
7/30	201 c	14	54	5	43	37	12	71	25	69	66	22	598	16	27	16	108	23	119
7/31	154	29	31 c	5	75	343	10	64	13	73 c	101	25	482 c	12 c	4	12	324	66	115
8/01	179	50 c	323	13	43 c	218	26 c	42 c	32	73	75	36	186	58	39 c	11	516 c	31	218
8/02	104 c	37	101	40	32	447	22	24	17	148	33	30	322	85	53	6	228	46	233 c
8/03	312	69	404	93	79	78 c	21	118	50 c	302	21	337	38 c	340	111	8	373	11 c	231
8/04	45	60	419 c	69	42 c	24	64	124	11	538 c	13 c	150 c	35	276	31	12	519 c	29	115
8/05	78	47 c	253	27	45	159	65	10 c	11	127	2	102	79	54	44	10	413 c	110	85 c
8/06	169 c	92	249	42 c	300	348	78 c	32	57 c	318 c	24	131	26	92 c	24 c	6	161	194 c	192
8/07	45	182	210 c	103	370	195 c	50	20	56	102	178	145	27 c	14	18	30 c	259	160	147
8/08	108	86 c	86	53	183 c	54	73	64 c	115	73	230	32 c	25	22	22	4	65 c	298 c	256 c
8/09	76 c	114	180	34	41	185 c	118	43	250	34 c	156 c	109	120	58	23	8	134 c	456	321 c
8/10	55	124	297	43	106 c	33	58 c	42	675	11	190	69	94 c	44	43	15	49	328	67
8/11	105	218	87 c	35	257	111	64	35	420 c	25	392	69	38	150	15 c	2	417	326 c	189
8/12	98	96 c	326	189	256 c	74 c	210	248 c	91	66	137 c	35 c	39	46 c	39	16	142 c	207	371 c
8/13	25 c	75	96 c	142 c	68	24	180 c	91	123	32	64	75	63 c	67	170	4	162	36 c	208 c
8/14	24	29	64	348	174	17	166	40 c	128 c	0 c	93	186	44	23	188	8	64 c	61	66
8/15	113	84 c	180 c	205	185 c	2 c	258	36	41	9	66 c	29	56	54	43	55	21	186 c	87
8/16	10 c	68	55	121	58	0	108 c	20	80	109	72	28 c	27 c	49	154	49	100	42	121
8/17	279	19	48	107 c	152	15	91	25	78 c	18 c	307	44	2	18	68 c	7	83 c	36 c	101
8/18	304	23	101 c	52	112 c	4 c	86	88	41	33	188 c	45	19	31 c	16	9	28 c	8	119
8/19	204	6 c	91	19 c	35	6	61	35 c	32	136	22	8 c	35	16	32	14	19	16	150
8/20	6 c	12	39	9	41 c	14	83 c	26	137 c	114	60	13	25 c	70	52	36	35	13 c	66
8/21	28	17	94 c	16 c	10	35	39	38	17	27 c	64	31	6	117	27	19	13 c	8	83
8/22	110	0 c	52	9	74	22	69	20	42	4	19 c	54 c	4	71	6 c	29	13 c	8 c	88
8/23	4 c	17	136	21	68	11 c	131	10	53	0	13	26	8 c	25	14	3	8		65
8/24	8	8	100	25 c	186	3	40	26	4 c	4	141	12	14	48	14	4			46
8/25	33	12	26 c	9	121	28	61	14	21	9 c	81 c	43	57	35	2	6	c	c	
8/26	26	0 c	43	19	89	10 c	56	42 c	13	18	42	27 c	12	12	0				
8/27	24 c	10	10	32 c	64 c	17	39 c	17	9 c	10	59 c	2	0	0					
8/28	14	34	4 c	50	9	17	2	18	4	12 c	19	11	0	4					
8/29	46	12 c		35	4	6 c	13	18	2	13	2	4 c							
8/30	21 c	0		48		2	8	9	5	5	9 c								
8/31	24			0 c	c	7	0	0	4 c	2									
9/01	5		c	20		c				c		c							
9/02	11			23							c								
9/03	7 c			27 c															
9/04	5			23															
9/05	29			22															
9/06	7 c			24															
9/07				12 c															
9/08				15															
9/09				7															
9/10				19															
9/11				9															

"c" indicates days when commercial fishing periods occurred in District 1

[a] Shaded columns represent years when the biological escapement goal of 25,000 was not achieved at Kogrukluk River weir

Table 14. Historical cumulative daily CPUE for coho salmon catches in the Bethel test fishery, 1984 - 2002

Date	Daily CPUE by Year *																		
	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002
7/10	0	0	0 c	0	0	0	0	0	0	0	0	0 c	0	0	0	0	5	0	0
7/11	0	0	0	0 c	0 c	0 c	0	0	0	0	0	0	2	0	0 c	0	5	0	1
7/12	0	0	0	0	0	0	0	0	0	0	0	0	10 c	0	0	0	6	2	7
7/13	0	0	0	0	2	2	0	0 c	6	7	0	0	17	0	0	0	6	2	7
7/14	0	0	0	0	2 c	4 c	0 c	0	8	7	0 c	0 c	27	0	0	0	8	4	7
7/15	0	0	2	0 c	2	6	0	0	8	7	5	0	34	0	0	0	12	7	7
7/16	2	0	4	0	2	6	0	0	10	7	8	0	52 c	2	0	0	33	29	14
7/17	3	2	6	0	6	8	0	0	11	7	8	0	86	2	0	2	74	69	17
7/18	7	2	8	0	6 c	12 c	0	0 c	18	7	10	0 c	104	2	0	2	87	82	21
7/19	13	3	11	0	6	12	4	2	27	16	18 c	0	226 c	8	0	3	93	88	24
7/20	21	7	15	0 c	10	22	17	8	31	18	18	4	334	16	2	7	97	92	28
7/21	26	12	25	0	12 c	30	27	15	34	23	18	4 c	528	27	2	7	134	129	28
7/22	31	33	33	7	16	46	34	19 c	40	47	40	4	647 c	33	2 c	7	180	175	36
7/23	43	33	54	9	16	51	37	25	43	75	46 c	11	745	43	2	10	251	247	46
7/24	51	35	107	9	28	57	45	29	47	84	95	13	984	79	6	12	362	357	55
7/25	67	59	136	9	44 c	61	47	36 c	55	90	133	31	1,660 c	136	17	12	409	404	59
7/26	79	80	163	9	53	61	49	38	66	95	144 c	39	2,275	167	31	18	450	445	67
7/27	97	88	236	11	97	63 c	59	61	76	114	157	50	2,531	187	39 c	22	585	581	131
7/28	126	103	256	14	169 c	72	102	95	86	185	184	65	2,701	193	53	22	809	805	131
7/29	186	143	320	25	197	80	136	137 c	110	252	210 c	69	3,219 c	224	56	24	962	958	196
7/30	387 c	157	374	30	239	117	148	208	135	322	276	91	3,817	240	83	48	1,070	1,066	219
7/31	541	186	405 c	35	314	460	158	271	148	395 c	377	116	4,298 c	251 c	87	51	1,395	1,390	305
8/01	720	237 c	727	47	358 c	678	184 c	314 c	179	468	452	151	4,484	309	126 c	63	1,910 c	1,906	336
8/02	824 c	274	828	67	390	1,125	205	337	196	616	486	181	4,806	394	179	69	2,138	2,134	382 c
8/03	1,136	343	1,233	180	468	1,203 c	228	455	246 c	917	507	517	4,844 c	734	289	77	2512	2,507 c	393
8/04	1,182	402	1,652 c	249	511 c	1,227	289	579	257	1,456 c	520 c	668 c	4,879	1,011	321	88	3,031 c	3,026	422
8/05	1,259	450 c	1,905	276	556	1,386	345	589 c	268	1,582	522	769	4,958	1,065	365	98	3,444 c	3,439	532 c
8/06	1,428 c	542	2,154	318 c	856	1,734	423 c	621	325 c	1,900 c	546	900	4,984	1,157 c	389 c	104	3,605	3,600 c	726
8/07	1,473	724	2,363 c	421	1,226	1,929 c	473	641	381	2,002	723	1,045	5,011 c	1,170	407	134 c	3,864	3,859	887
8/08	1,581	809 c	2,450	475	1,409 c	1,983	546	705 c	496	2,075	953	1,077 c	5,037	1,192	428	138	3,929 c	3,925 c	1,184 c
8/09	1,657 c	924	2,630	509	1,450	2,168 c	664	748	746	2,108 c	1,110 c	1,186	5,157	1,250	452	146	4,063 c	4,058	1,640 c
8/10	1,712	1,047	2,927	551	1,556 c	2,202	722 c	790	1,421	2,120	1,300	1,255	5,251 c	1,294	495	161	4,112	4,107	1,968
8/11	1,817	1,266	3,014 c	587	1,813	2,312	786	824	1,841 c	2,144	1,691	1,324	5,289	1,444	510 c	163	4,528	4,524 c	2,294
8/12	1,915	1,361 c	3,340	776	2,070 c	2,386 c	996	1,072 c	1,932	2,210	1,828 c	1,359 c	5,328	1,491 c	549	179	4,670 c	4,665	2,501 c
8/13	1,940 c	1,437	3,436 c	918 c	2,138	2,410	1,176 c	1,163	2,056	2,242	1,892	1,434	5,391 c	1,558	719	183	4,852	4,847 c	2,537 c
8/14	1,964	1,466	3,501	1,266	2,312	2,427	1,342	1,203 c	2,183 c	2,242 c	1,985	1,620	5,435	1,581	907	190	4,916 c	4,911	2,598
8/15	2,077	1,550 c	3,681 c	1,470	2,497 c	2,429 c	1,600	1,239	2,224	2,252	2,051 c	1,649	5,491	1,635	950	246	4,937	4,932 c	2,784
8/16	2,087 c	1,619	3,735	1,591	2,555	2,429	1,708 c	1,259	2,304	2,361	2,123	1,677 c	5,518 c	1,685	1,104	295	5,037	5,033	2,826
8/17	2,366	1,637	3,784	1,699 c	2,706	2,444	1,798	1,284	2,382 c	2,379 c	2,430	1,721	5,520	1,702	1,172 c	302	5,120 c	5,115 c	2,862
8/18	2,669	1,661	3,885 c	1,751	2,818 c	2,448 c	1,884	1,371	2,422	2,412	2,619 c	1,768	5,539	1,733 c	1,188	311	5,148 c	5,144	2,870
8/19	2,874	1,669 c	3,976	1,770 c	2,853	2,455	1,945	1,406 c	2,455	2,548	2,640	1,775 c	5,574	1,749	1,220	325	5,167	5,163	2,887
8/20	2,880 c	1,680	4,006	1,779	2,894 c	2,468	2,029 c	1,433	2,592 c	2,662	2,700	1,788	5,599 c	1,818	1,272	361	5,203	5,198 c	2,899
8/21	2,908	1,698	4,100 c	1,795 c	2,903	2,503	2,067	1,471	2,609	2,689 c	2,765	1,819	5,605	1,936	1,299	389	5,215 c	5,211	2,907
8/22	3,017	1,698 c	4,152	1,804	2,978	2,525	2,136	1,491	2,651	2,693	2,784 c	1,873 c	5,609	2,006	1,299 c	409	5,229 c	5,224 c	2,914
8/23	3,021 c	1,715	4,288	1,825	3,046	2,536 c	2,267	1,501	2,703	2,693	2,797	1,899	5,616 c	2,031	1,313	412	5,236		2,914
8/24	3,030	1,723	4,388	1,850 c	3,154	2,539	2,307	1,527	2,707 c	2,697	2,938	1,911	5,630	2,080	1,326	416	5,236		2,914
8/25	3,062	1,734	4,414 c	1,859	3,275	2,564	2,368	1,540	2,729	2,706 c	3,019 c	1,954	5,687	2,114	1,328	422	c	c	
8/26	3,088	1,734 c	4,457	1,878	3,384	2,574 c	2,424	1,583 c	2,741	2,724	3,061	1,981 c	5,699	2,126	1,328				
8/27	3,112 c	1,744	4,467	1,910 c	3,428 c	2,591	2,463 c	1,600	2,750 c	2,734	3,119 c	1,983	5,699	2,126					
8/28	3,126	1,778	4,471 c	1,960	3,437	2,609	2,465	1,618	2,754	2,745 c	3,138	1,994	5,699	2,130					
8/29	3,175	1,790 c		1,995	3,441	2,615 c	2,477	1,636	2,757	2,758	3,141	1,998 c							
8/30	3,196 c	1,790		2,043		2,616	2,485	1,645	2,762	2,763	3,150 c								
8/31	3,219			2,043 c		c 2,624	2,485	1,645	2,766 c	2,765	3,150								
9/01	3,225			c 2,043			c			c		c							
9/02	3,236			2,043							c								
9/03	3,243 c			2,043															
9/04	3,249			2,043															
9/05	3,278			2,043															
9/06	3,285 c			2,043															
9/07				2,043															
9/08				2,043															
9/09				2,043															
9/10				2,043															
9/11				2,043															

"c" indicates days when commercial fishing periods occurred in District 1

* Shaded columns represent years when the biological escapement goal of 25,000 was not achieved at Kogrukluk River weir.

Table 15. Historical cumulative daily percent passage for coho salmon catches in the Bethel test fish, 1984 - 2002.

Date	Cumulative Daily Percent Passage by Year [a]																			
	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	Mean 84-02
7/10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0
7/11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0
7/12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0
7/13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0
7/14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0
7/15	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
7/16	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0
7/17	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	1	1	0	0
7/18	0	0	0	0	0	0	0	0	1	0	0	0	2	0	0	0	2	1	0	0
7/19	0	0	0	0	0	0	0	0	1	1	1	0	4	0	0	1	2	1	0	1
7/20	1	0	0	0	0	1	1	0	1	1	1	0	6	0	0	2	2	1	0	1
7/21	1	1	1	0	0	1	1	1	1	1	1	0	9	0	0	2	3	1	0	1
7/22	1	2	1	0	0	2	1	1	1	2	1	0	11	0	0	2	3	1	0	2
7/23	1	2	1	0	0	2	1	1	2	3	1	1	13	0	0	2	6	2	1	2
7/24	2	2	2	0	1	2	2	2	2	3	3	1	17	0	0	3	7	2	1	3
7/25	2	3	3	0	1	2	2	2	2	3	4	2	29	3	1	3	8	2	2	4
7/26	2	4	4	0	2	2	2	2	2	3	5	2	40	3	2	4	9	2	3	5
7/27	3	5	5	1	3	2	2	4	3	4	5	2	44	4	3	5	11	8	6	6
7/28	4	6	6	1	5	3	4	6	3	7	6	3	47	5	4	5	15	3	8	7
7/29	6	8	7	1	6	3	5	8	4	9	7	3	56	6	4	6	18	7	11	9
7/30	12	9	8	1	7	4	6	13	5	12	9	5	67	9	6	9	20	8	14	12
7/31	17	10	9	2	9	18	6	16	5	14	12	8	75	12	7	12	27	10	19	15
8/01	22	13	16	2	10	26	7	19	6	17	14	8	79	16	9	16	37	12	27	19
8/02	26	15	19	4	11	43	8	20	7	22	15	9	84	20	13	16	41	13	28	22
8/03	35	19	28	9	14	46	9	28	9	33	18	26	85	25	22	18	48	13	33	27
8/04	37	22	37	12	15	47	11	35	9	53	17	33	86	31	24	21	58	14	35	31
8/05	39	25	43	14	16	53	14	36	10	57	17	38	87	37	27	23	66	18	37	35
8/06	44	30	48	16	25	66	17	38	12	69	17	45	87	43	29	25	69	25	42	39
8/07	46	40	53	21	36	74	19	39	14	72	23	52	88	49	31	32	74	30	47	44
8/08	49	45	55	23	41	76	22	43	18	75	30	54	88	56	32	33	75	41	53	48
8/09	51	52	59	25	42	83	27	45	27	76	35	59	90	59	34	35	78	58	59	52
8/10	53	59	65	27	45	84	29	48	51	77	41	63	92	63	37	38	79	68	61	57
8/11	56	71	67	29	53	88	32	50	67	78	54	66	93	67	38	39	87	79	67	62
8/12	59	76	75	38	60	91	40	65	70	80	58	68	93	71	41	42	89	86	76	67
8/13	60	80	77	45	62	92	47	71	74	81	68	72	95	74	54	43	93	87	80	71
8/14	61	82	78	62	67	93	54	73	79	81	63	81	95	76	66	45	94	89	81	75
8/15	65	87	82	72	73	93	64	76	80	81	65	83	96	79	71	58	94	96	85	79
8/16	65	90	84	78	74	93	69	76	83	85	67	84	97	82	83	70	96	97	86	82
8/17	73	91	85	83	79	93	72	78	86	86	77	86	97	84	88	72	98	98	88	85
8/18	83	93	87	86	82	93	76	83	88	87	83	88	97	86	89	74	98	98	93	88
8/19	89	93	89	87	83	94	78	85	89	92	84	89	98	88	92	77	99	99	95	89
8/20	89	94	90	87	84	94	82	87	94	96	86	89	98	90	96	86	100	99	96	91
8/21	90	95	92	88	84	95	83	89	94	97	88	91	98	92	98	90	100	100	98	93
8/22	94	95	93	88	87	96	86	91	96	97	88	94	98	94	98	97	100	100	100	94
8/23	94	96	96	89	89	97	91	91	98	97	89	95	99	95	99	98	100		101	95
8/24	94	96	98	91	92	97	93	93	98	98	93	96	99	96	100	99			102	96
8/25	95	97	99	91	95	98	95	94	99	98	96	98	100	97	100	100				97
8/26	96	97	100	92	98	98	98	96	99	98	97	98	100	98						98
8/27	97	97	100	93	100	99	99	97	99	99	98	98	100	99						98
8/28	97	99	100	96	100	99	99	98	100	99	100	100	100	100						99
8/29	99	100		98	100	100	100	99	100	100	100	100								99
8/30	99	100		100		100	100	100	100	100	100									100
8/31	100			100		100	100	100	100	100										100

[a] The rectangles represent the central fifty percent of the run for that year based on the test-fish index, the shaded numbers represent the medians dates of passage.

Figure 1. Kuskokwim salmon management area.

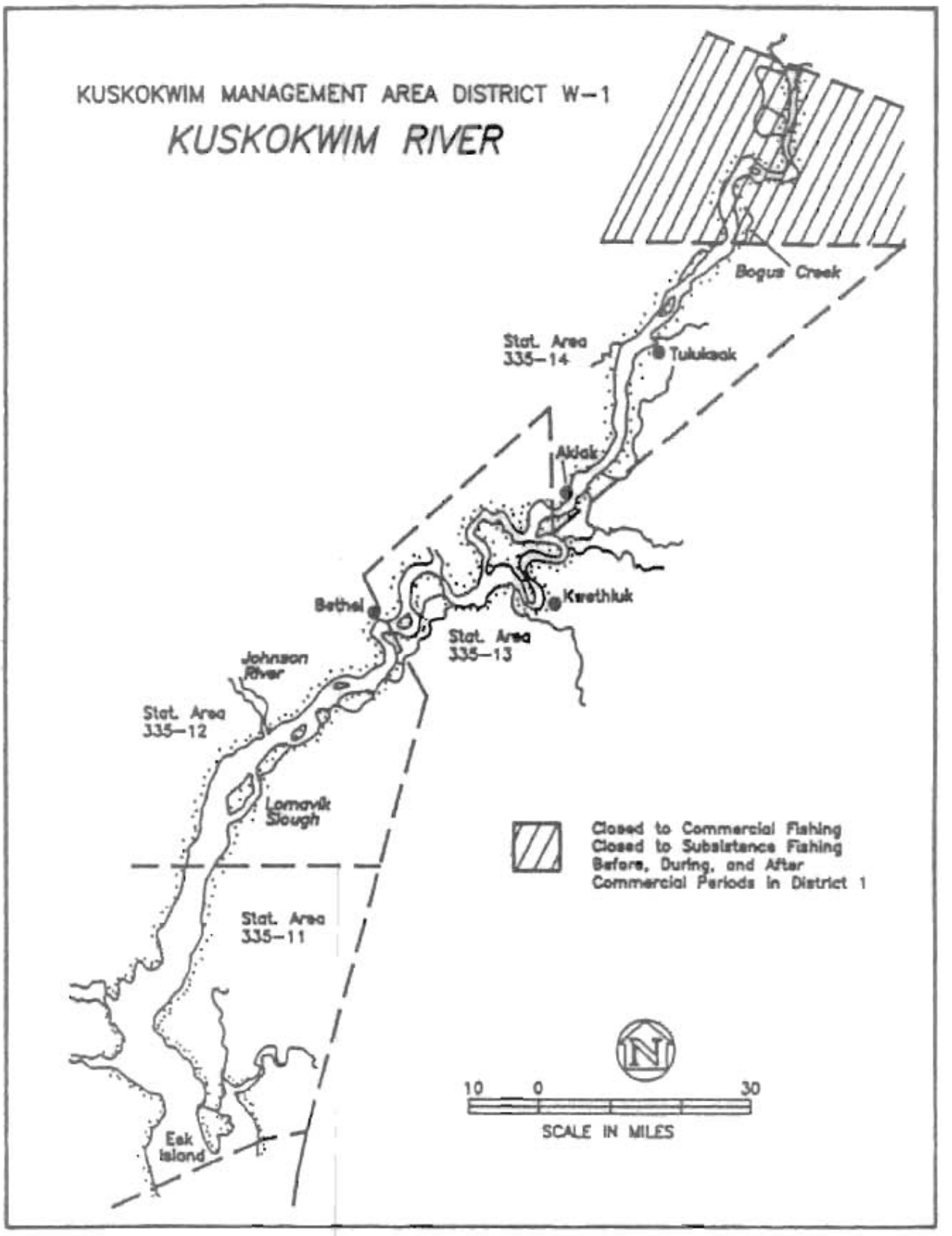

Figure 2. Kuskokwim Management Area, District W-1.

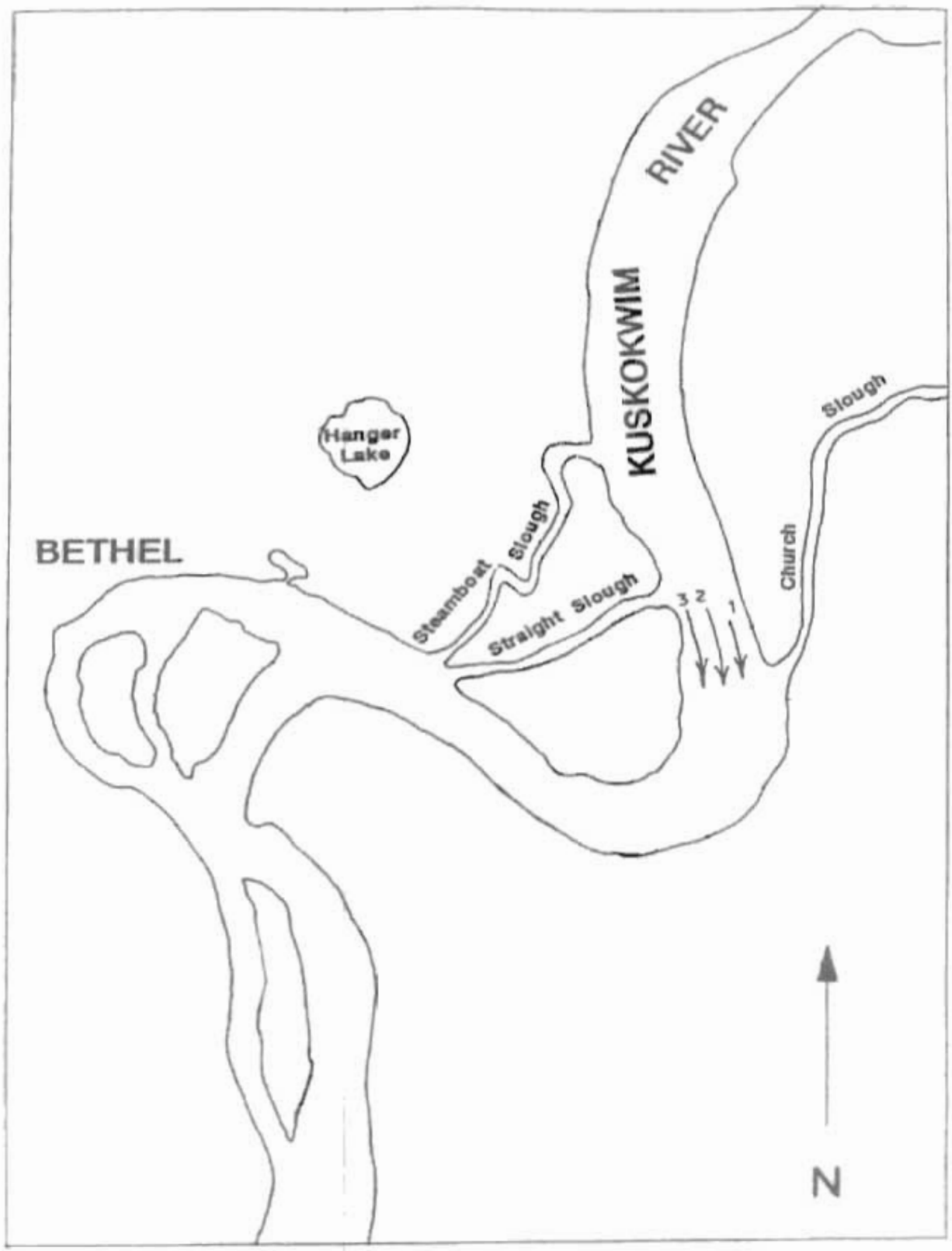

Figure 3. Project site of the Bethel test fishery: stations 1, 2, and 3.

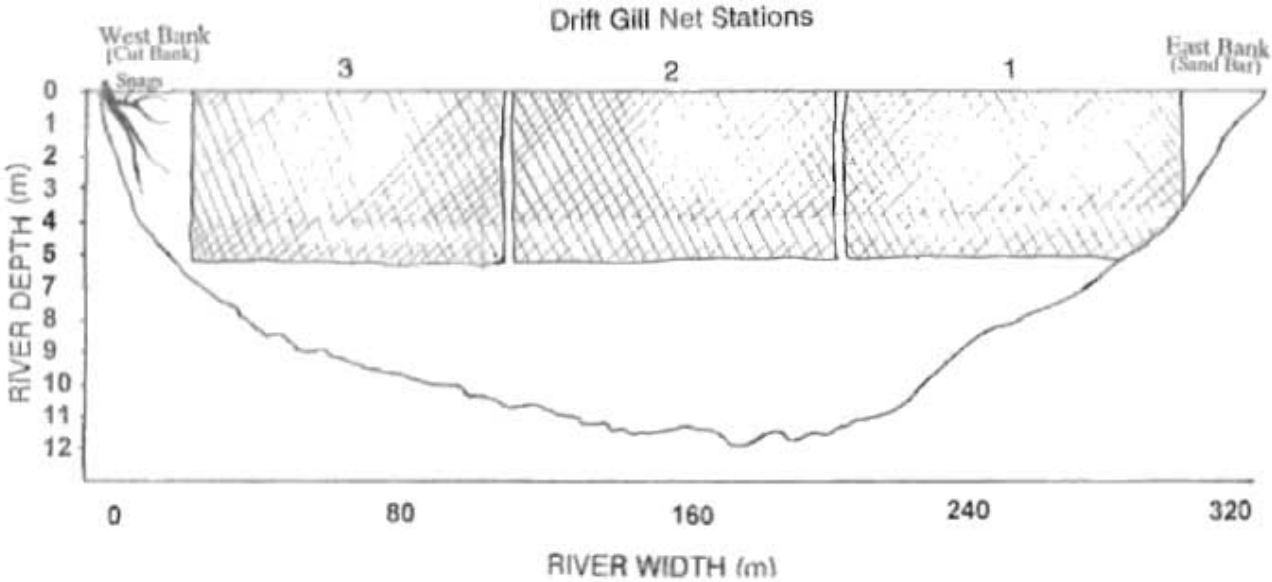

Figure 4. Typical profile of the Kuskokwim River 4 miles upstream of Bethel illustrating the area covered by gillnets used in the Bethel test fishery. The profile depicted was measured in 1995.