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REPORT TO THE ALASKA BOARD OF FISHERIES ON THE STOCK COMPOSITION OF SOCKEYE SALMON CATCHES WITHIN EAST SIDE BRISTOL BAY FISHING DISTRICTS, 1983-1995

By

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and

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TABLE OF CONTENTS

Page

LIST OF TABLES v

LIST OF FIGURES vi

LIST OF APPENDICES ix

ABSTRACT xiv

INTRODUCTION 1

METHODS 1

Catch and Escapement Age Estimation 1

Catch Composition Estimation 2

Scale Growth Measurements 2
Discriminant Analysis 3

Model Construction 3
Catch Classification 4
Other Age Group Stock Composition Estimation 4

Run Size Estimation 5

RESULTS 5

Catch and Escapements 5

Age Composition 6

Classification Models 6

Catch Composition Estimates 9

Naknek-Kvichak District 9
Egegik District 10
Ugashik District 10

TABLE OF CONTENTS (Continued)

Page

RESULTS (Continued)

Run by River System 11

Kvichak River 11
Naknek River 11
Egegik River 11
Ugashik River 12

CONCLUSIONS 13

LITERATURE CITED 14

TABLES 17

FIGURES 27

APPENDIX 55

LIST OF TABLES

Table | Page

1. Catch and escapement of sockeye salmon, east side Bristol Bay, 1983-1995 18

2. Age composition (percent) of sockeye salmon commercial catches and escapements by area and year, east side Bristol Bay, 1983-1995..... 19

3. Stock composition of sockeye salmon commercial catches by district, east side Bristol Bay, 1983-1995 24

LIST OF FIGURES

Figure		Page
1.	Map of Bristol Bay showing major rivers and fishing districts	28
2.	Naknek-Kvichak District sockeye salmon catch stock composition estimates, 1983-1995, in percent	29
3.	Naknek-Kvichak District sockeye salmon catch stock composition estimates, 1983-1995, in numbers of fish	30
4.	Egegik District sockeye salmon catch stock composition estimates, 1983-1995, in percent	31
5.	Egegik District sockeye salmon catch stock composition estimates, 1983-1995, in numbers of fish	32
6.	Ugashik District sockeye salmon catch stock composition estimates, 1983-1995, in percent	33
7.	Ugashik District sockeye salmon catch stock composition estimates, 1983-1995, in numbers of fish	34
8.	Estimated run of sockeye salmon to Kvichak River in 1983-1985 and the percentage of run comprised of escapement, in district catch, and other district catch	35
9.	Estimated run of sockeye salmon to Kvichak River in 1986-1988 and the percentage of run comprised of escapement, in district catch, and other district catch	36
10.	Estimated run of sockeye salmon to Kvichak River in 1989-1991 and the percentage of run comprised of escapement, in district catch, and other district catch	37
11.	Estimated run of sockeye salmon to Kvichak River in 1992-1994 and the percentage of run comprised of escapement, in district catch, and other district catch	38
12.	Estimated run of sockeye salmon to Kvichak River in 1995 and the percentage of run comprised of escapement, in district catch, and other district catch	39

LIST OF FIGURES (Continued)

Figure | Page

13. Estimated run of sockeye salmon to Naknek River in 1983-1985 and the percentage of run comprised of escapement, in district catch, and other district catch 40

14. Estimated run of sockeye salmon to Naknek River in 1986-1988 and the percentage of run comprised of escapement, in district catch, and other district catch 41

15. Estimated run of sockeye salmon to Naknek River in 1989-1991 and the percentage of run comprised of escapement, in district catch, and other district catch 42

16. Estimated run of sockeye salmon to Naknek River in 1992-1994 and the percentage of run comprised of escapement, in district catch, and other district catch 43

17. Estimated run of sockeye salmon to Naknek River in 1995 and the percentage of run comprised of escapement, in district catch, and other district catch 44

18. Estimated run of sockeye salmon to Egegik River in 1983-1985 and the percentage of run comprised of escapement, in district catch, and other district catch 45

19. Estimated run of sockeye salmon to Egegik River in 1986-1988 and the percentage of run comprised of escapement, in district catch, and other district catch 46

20. Estimated run of sockeye salmon to Egegik River in 1989-1991 and the percentage of run comprised of escapement, in district catch, and other district catch 47

21. Estimated run of sockeye salmon to Egegik River in 1992-1994 and the percentage of run comprised of escapement, in district catch, and other district catch 48

22. Estimated run of sockeye salmon to Egegik River in 1995 and the percentage of run comprised of escapement, in district catch, and other district catch 49

LIST OF FIGURES (Continued)

Figure Page

23. Estimated run of sockeye salmon to Ugashik River in 1983-1985 and the percentage of run comprised of escapement, in district catch, and other district catch 50

24. Estimated run of sockeye salmon to Ugashik River in 1986-1988 and the percentage of run comprised of escapement, in district catch, and other district catch 51

25. Estimated run of sockeye salmon to Ugashik River in 1989-1991 and the percentage of run comprised of escapement, in district catch, and other district catch 52

26. Estimated run of sockeye salmon to Ugashik River in 1992-1994 and the percentage of run comprised of escapement, in district catch, and other district catch 53

27. Estimated run of sockeye salmon to Ugashik River in 1995 and the percentage of run comprised of escapement, in district catch, and other district catch 54

LIST OF APPENDICES

Page

Appendix A: Scale Variables

A.1. Scale variables screened for linear discriminant function analysis of sockeye salmon, east side Bristol Bay, 1983-1995 56

Appendix B: Stock Identification Models, 1983-1995

B.1. Stock identification models developed for age-1.2 and -2.2 sockeye salmon sampled from Kvichak, Naknek, Egegik, and Ugashik Rivers, 1983 60

B.2. Stock identification models developed for age-2.2 sockeye salmon sampled from Kvichak, Naknek, Egegik, and Ugashik Rivers, 1984 61

B.3. Stock identification models developed for age-1.3 and -2.2 sockeye salmon sampled from Kvichak, Naknek, Egegik, and Ugashik Rivers, 1985 62

B.4. Stock identification models developed for age-1.3 and -2.2 sockeye salmon sampled from Kvichak, Naknek, Egegik, and Ugashik Rivers, 1986 63

B.5. Stock identification models developed for age-1.2, -1.3, and -2.3 sockeye salmon sampled from Kvichak, Naknek, Egegik, and Ugashik Rivers, 1987 64

B.6. Stock identification models developed for age-1.3 and -2.2 sockeye salmon sampled from Kvichak, Naknek, Egegik, and Ugashik Rivers, 1988 65

B.7. Stock identification models developed for age-2.2 sockeye salmon sampled from Kvichak, Naknek, Egegik, and Ugashik Rivers, 1989 66

B.8. Stock identification models developed for age-2.2 and -2.3 sockeye salmon sampled from Kvichak, Naknek, Egegik, and Ugashik Rivers, 1990 67

B.9. Stock identification models developed for age-1.3 and -2.2 sockeye salmon sampled from Kvichak, Naknek, Egegik, and Ugashik Rivers, 1991 68

B.10. Stock identification models developed for age-2.2 and -2.3 sockeye salmon sampled from Kvichak, Naknek, Egegik, and Ugashik Rivers, 1992 69

LIST OF APPENDICES (Continued)

Page

Appendix B: Stock Identification Models, 1983-1995 (Continued)

B.11. Stock identification models developed for age-2.2 and -2.3 sockeye salmon sampled from Kvichak, Naknek, Egegik, and Ugashik Rivers, 1993 70

B.12. Stock identification models developed for age-2.2 sockeye salmon sampled from Kvichak, Naknek, Egegik, and Ugashik Rivers, 1994 71

B.13. Stock identification models developed for age-2.2 and -2.3 sockeye salmon sampled from Kvichak, Naknek, Egegik, and Ugashik Rivers, 1995 72

Appendix C: Naknek-Kvichak District Stock Composition, 1983-1995

C.1. Stock composition estimates of sockeye salmon catches by age group and date, Naknek-Kvichak District, 1983 74

C.2. Stock composition estimates of sockeye salmon catches by age group and date, Naknek-Kvichak District, 1984 75

C.3. Stock composition estimates of sockeye salmon catches by age group and date, Naknek-Kvichak District, 1985 76

C.4. Stock composition estimates of sockeye salmon catches by age group and date, Naknek-Kvichak District, 1986 78

C.5. Stock composition estimates of sockeye salmon catches by age group and date, Naknek-Kvichak District, 1987 80

C.6. Stock composition estimates of sockeye salmon catches by age group and date, Naknek-Kvichak District, 1988 82

C.7. Stock composition estimates of sockeye salmon catches by age group and date, Naknek-Kvichak District, 1989 84

C.8. Stock composition estimates of sockeye salmon catches by age group and date, Naknek-Kvichak District, 1990 87

LIST OF APPENDICES (Continued)

Page

Appendix C: Naknek-Kvichak District Stock Composition, 1983-1995 (Continued)

C.9. Stock composition estimates of sockeye salmon catches by age group and date, Naknek-Kvichak District, 1991 90

C.10. Stock composition estimates of sockeye salmon catches by age group and date, Naknek-Kvichak District, 1992 92

C.11. Stock composition estimates of sockeye salmon catches by age group and date, Naknek-Kvichak District, 1993 95

C.12. Stock composition estimates of sockeye salmon catches by age group and date, Naknek-Kvichak District, 1994 98

C.13. Stock composition estimates of sockeye salmon catches by age group and date, Naknek-Kvichak District, 1995 102

Appendix D: Egegik District Stock Composition, 1983-1995

D.1. Stock composition estimates of sockeye salmon catches by age group and date, Egegik District, 1983 106

D.2. Stock composition estimates of sockeye salmon catches by age group and date, Egegik District, 1984 107

D.3. Stock composition estimates of sockeye salmon catches by age group and date, Egegik District, 1985 108

D.4. Stock composition estimates of sockeye salmon catches by age group and date, Egegik District, 1986 109

D.5. Stock composition estimates of sockeye salmon catches by age group and date, Egegik District, 1987 111

D.6. Stock composition estimates of sockeye salmon catches by age group and date, Egegik District, 1988 113

LIST OF APPENDICES (Continued)

Page

Appendix D: Egegik District Stock Composition, 1983-1995 (Continued)

D.7. Stock composition estimates of sockeye salmon catches by age group and date, Egegik District, 1989 117

D.8. Stock composition estimates of sockeye salmon catches by age group and date, Egegik District, 1990 120

D.9. Stock composition estimates of sockeye salmon catches by age group and date, Egegik District, 1991 123

D.10. Stock composition estimates of sockeye salmon catches by age group and date, Egegik District, 1992 126

D.11. Stock composition estimates of sockeye salmon catches by age group and date, Egegik District, 1993 128

D.12. Stock composition estimates of sockeye salmon catches by age group and date, Egegik District, 1994 130

D.13. Stock composition estimates of sockeye salmon catches by age group and date, Egegik District, 1995 134

Appendix E: Ugashik District Stock Composition, 1983-1995

E.1. Stock composition estimates of sockeye salmon catches by age group and date, Ugashik District, 1983 138

E.2. Stock composition estimates of sockeye salmon catches by age group and date, Ugashik District, 1984 139

E.3. Stock composition estimates of sockeye salmon catches by age group and date, Ugashik District, 1985 140

E.4. Stock composition estimates of sockeye salmon catches by age group and date, Ugashik District, 1986 141

LIST OF APPENDICES (Continued)

Page

Appendix E: Ugashik District Stock Composition, 1983-1995 (Continued)

E.5. Stock composition estimates of sockeye salmon catches by age group and date, Ugashik District, 1987 142

E.6. Stock composition estimates of sockeye salmon catches by age group and date, Ugashik District, 1988 144

E.7. Stock composition estimates of sockeye salmon catches by age group and date, Ugashik District, 1989 146

E.8. Stock composition estimates of sockeye salmon catches by age group and date, Ugashik District, 1990 148

E.9. Stock composition estimates of sockeye salmon catches by age group and date, Ugashik District, 1991 150

E.10. Stock composition estimates of sockeye salmon catches by age group and date, Ugashik District, 1992 152

E.11. Stock composition estimates of sockeye salmon catches by age group and date, Ugashik District, 1993 153

E.12. Stock composition estimates of sockeye salmon catches by age group and date, Ugashik District, 1994 155

E.13. Stock composition estimates of sockeye salmon catches by age group and date, Ugashik District, 1995 157

ABSTRACT

Stock composition estimates derived from scale pattern analyses of 1983-1995 sockeye salmon *Oncorhynchus nerka* commercial harvests in Naknek-Kvichak, Egegik, and Ugashik Districts, Bristol Bay, Alaska, were summarized and compared. Most sockeye salmon harvested in each fishing district originated from rivers within that district. However, interception of outside stocks occurred in every district. Interception rates in Ugashik (13% to 47%) and Egegik (8% to 43%) Districts have been higher than in Naknek-Kvichak District (< 0.1% to 25%) for the years studied. Sockeye salmon runs to Ugashik and Naknek Rivers were harvested outside their district of origin at a higher rate than Egegik or Kvichak River stocks during 1983-1995.

KEY WORDS: Sockeye salmon *Oncorhynchus nerka*, Bristol Bay, scale pattern analysis, linear discriminant analysis, stock composition estimates, interception rates.

INTRODUCTION

The Bristol Bay sockeye salmon *Oncorhynchus nerka* fishery is limited to districts and sections located near the mouths of major spawning streams. There are three fishing districts within east side Bristol Bay: Naknek-Kvichak, Egegik, and Ugashik (Figure 1). Past tagging studies (Straty 1975) and abundance trends of Kvichak River sockeye salmon (Eggers and Rogers 1987) suggest that east side sockeye salmon stocks were mixed in all east side districts.

Fried and Yuen (1985) found that scale pattern analysis could separate major east side Bristol Bay (Kvichak, Naknek, Egegik, and Ugashik) sockeye salmon stocks from each other. Sampling programs and data analyses were expanded in 1986 and contribution by stock to Naknek-Kvichak, Egegik, and Ugashik District sockeye salmon catches have been estimated and summarized annually (Bue et al. 1986; Cross and Stratton 1989, 1991; Cross et al. 1992; Stratton et al. 1992; Stratton and Miller 1993, 1994; Miller 1995a, 1995b). Results for 1983-1995 are summarized in this report. Burns (1991) estimated stock compositions of east side district catches from 1983-1985. Numbers and percentages reported for 1983-1985 may differ from Burns (1991) as all estimates were recalculated to reflect final catch numbers and correct rounding errors.

The objective of this report is to summarize and compare stock composition estimates generated through scale pattern analysis for sockeye salmon catches in Naknek-Kvichak, Egegik, and Ugashik Districts during 1983-1995.

METHODS

Catch and Escapement Age Estimation

All catch numbers in this report are final, except for the 1995 Naknek-Kvichak catch. The final catch in this district in 1995 was 20,279,581 sockeye salmon, which is 42 fish more than the number used in this report. Escapement numbers from 1983-1995 are final and were based on visual counts made from towers located on the banks of Kvichak, Naknek, Egegik, and Ugashik Rivers.

Ages were determined by examining scales (Mosher 1968). European notation (Koo 1962) was used to record ages (e.g., age-2.2), numerals preceding the decimal refer to the number of freshwater annuli and numerals following the decimal refer to the number of marine annuli. Total age from time of egg deposition (brood year) is the sum of these two numbers plus one.

Age compositions of district catches were estimated by sampling sockeye salmon delivered to processors. In general, scales from sockeye salmon catches were collected from several processors every fishing period in an attempt to get representative samples of catches. District catch scale samples were taken primarily from sockeye salmon caught in drift gill nets.

Spawning escapement age compositions were estimated by examining scales collected from sockeye salmon captured at counting tower sites. Samples were collected daily throughout the sockeye salmon run at all escapement enumeration sites.

Catch Composition Estimation

Methods used to estimate stock composition were similar for 1983-1995. Detailed descriptions for 1983-1994 can be found in Bue et al. (1986), Cross and Stratton (1989 and 1991), Burns (1991), Cross et al. (1992), Stratton et al. (1992), Stratton and Miller (1993, 1994), and Miller (1995a, 1995b). A detailed description of methods used in 1995 will be published at a later date.

Scale Growth Measurements

For study years 1983-1985, Burns (1991) used the Optical Pattern Recognition System (OPRS) developed by Biosonics Incorporated[2] to measure the distance between growth rings and count circuli. For the 1986-1995 analyses, scale impressions were magnified 100X and projected onto a digitizing tablet. Distance between circuli were measured and the number of circuli were counted from the following growth zones: first freshwater (all ages), second freshwater (age-2.2 and 2.3), plus growth (if present, all ages), and first marine (all ages). Total width of second marine growth zone was measured for 3-ocean sockeye salmon. All measurements and counts were recorded directly into microcomputer files. Up to 109 variables were created from these measurements and counts (Appendix A.1). Scale growth measurements were taken for age-1.3 and age-2.2 (five-year-old) sockeye salmon in 1985, 1986, 1988, and 1991. These age groups accounted for 72%, 74%, 64%, and 71% of the east side Bristol Bay catch for those years. In 1987, scale measurements were made for age-1.2. -1.3, and -2.3 (four-, five- and six-year-old) sockeye salmon . These age groups represented 70% of the east side Bristol Bay sockeye harvest in 1987. Age-2.2 scales were measured from 1984, 1989, and 1994 catches; this age group represented 62%, 68%, and 76% of the east side catches. In 1983, scales from age-1.2 and -2.2 sockeye salmon were digitized. These age groups comprised 86% of the 1983 east side catch. Age-2.2 and -2.3 scales were measured in 1990, 1992, 1993, and 1995. These age groups accounted for 68%, 78%, 64%, 79% of the east side catches for those years.

[2]Mention of a product name does not constitute an endorsement by the Alaska Department of Fish and Game.

Discriminant Analysis

Linear discriminant function (LDF) analysis using scale growth variables was used to determine the river of origin of sockeye salmon harvested within east side Bristol Bay districts in 1983-1995 (Fisher 1936).

Model Construction. Scales from spawning escapements were collected at Kvichak, Naknek, Egegik, and Ugashik River counting towers and used to build discriminant models. Only scale variables which gave the greatest model accuracy and generally met the requirements of LDF analysis (e.g., normal distribution and equal variance-covariance matrices) were included. The procedure documented by Enslein et al. (1977) was used for variable selection. Classification accuracy was estimated with the "leaving-one-out procedure" outlined by Lachenbruch (1967).

Whenever possible, four-way models representing sockeye salmon from Kvichak, Naknek, Egegik, and Ugashik Rivers were constructed for each age group and used to classify catches. However, in 1986 sockeye salmon from Kvichak and Naknek Rivers could not be accurately separated using discriminant models. Samples were pooled from these two systems and a three-way district model (Kvichak-Naknek/Egegik/Ugashik) was built. The estimated catch of Naknek-Kvichak sockeye salmon was divided between Naknek and Kvichak Rivers based on each rivers escapement age composition. In 1987, age-1.3 sockeye salmon from Kvichak, Naknek, and Ugashik Rivers could not be separated, samples were pooled to construct a two-way (Kvichak-Naknek-Ugashik/Egegik) model. The two-way model was only used to estimate stock composition of Egegik District age-1.3 catches. For age-2.3 catch apportionment in 1987, Kvichak River sockeye salmon were not included when constructing models. Sufficient sample numbers were not available as this age group comprised only 1% of the Kvichak River escapement. In 1990, age-2.3 sockeye salmon samples from Naknek and Egegik Rivers were pooled and a three-way (Kvichak/Ugashik/Naknek-Egegik) model was produced. The 1990 estimated catch of age-2.3 Naknek-Egegik sockeye salmon was partitioned to Naknek and Egegik Rivers based on the results of the age-2.2 scale pattern analysis and escapement age compositions. In 1991, age-2.2 sockeye salmon from Kvichak and Naknek Rivers could not be separated using discriminant models. Samples were pooled and a three-way district model (Kvichak-Naknek/Egegik/Ugashik) was built. The estimated catch of age-2.2 Naknek-Kvichak sockeye salmon was divided between Naknek and Kvichak Rivers based on each rivers escapement age composition. Age-1.3 sockeye salmon from Kvichak, Naknek, and Ugashik Rivers in 1991 could not be separated, samples were pooled to construct a two-way (Kvichak-Naknek-Ugashik/ Egegik) model. The 1991 estimated catch of age-1.3 Kvichak-Naknek-Ugashik sockeye salmon was split to Kvichak, Naknek, and Ugashik Rivers based on the results of the age-2.2 scale pattern analysis and escapement age compositions. In 1992, age-2.3 sockeye salmon samples from Kvichak and Naknek Rivers could not be separated, so these samples were pooled to produce a 3-way (Kvichak-Naknek/Egegik/Ugashik) model. The estimated catch of age-2.3 Kvichak-Naknek sockeye salmon was divided between Kvichak and Naknek Rivers based on each rivers escapement age compositions and results of the age-2.2 scale pattern analysis. In 1993, age-2.3 Kvichak, Naknek, and Ugashik samples could not be distinguished, so a 2-way (Kvichak-

Naknek-Ugashik/Egegik) model was constructed. Kvichak-Naknek-Ugashik samples were then apportioned to their river of origin using escapement age composition and age-2.2 scale pattern analysis results. In 1994, age-2.2 Kvichak and Naknek samples could not be separated, so a 3-way (Kvichak-Naknek/Egegik/Ugashik) model was produced. The estimated catch of age-2.2 Kvichak-Naknek sockeye salmon were divided between Kvichak and Naknek Rivers using a 2-way (Kvichak/Naknek) age-2.2 model. Again, in 1995, age-2.2 Kvichak and Naknek samples could not be separated, so a 3-way (Kvichak-Naknek/Egegik/Ugashik) model was produced and used to separate the catch for Egegik and Ugashik Districts. A 2-way (Kvichak/Naknek) age-2.3 model was used only to estimate stock composition of Naknek-Kvichak District catch.

Nushagak and Togiak District sockeye salmon stocks were not included in any classification models used for 1983-1995. Therefore, these stocks would not be detected if they were present within east side Bristol Bay catches. Results of tagging studies (Straty 1975) indicated that few sockeye salmon bound for west side systems occurred within east side Bristol Bay districts. Most of these were found along the west side of Kvichak Bay, Naknek-Kvichak District. A discriminant model which included west side (Wood, Nuyakuk, Igushik, and Togiak Rivers) and east side sockeye salmon stocks was tested in 1988 (Cross and Stratton 1991). West side stocks could not be accurately separated from Naknek and Kvichak River stocks.

Sockeye salmon scales from Alagnak (Branch) River, a Kvichak River tributary, were not included as part of Kvichak standards used in classification models for 1983-1995. The Branch River run is a small component (<5%) of the total Kvichak River run, and is difficult to sample since it is located below the Kvichak River counting tower site. In 1989, scale samples were collected from Branch River and classified as unknowns with the four-way age-2.2 model (Cross et al. 1992). Most of these samples (93%) classified as Kvichak River, indicating that their absence from models has probably resulted in Branch River fish being grouped with the Kvichak River component in district catches. However, because the Branch River component is so small, this grouping would not significantly affect the overall trends of the Kvichak River component.

Catch Classification. Scales obtained from commercial catches were classified with discriminant models to determine stock composition. Initially, each catch sample was classified using a model that included all four rivers. If the estimated contribution of one or more stocks was zero, the catch was reclassified using a model that excluded that stock or stocks. Stock proportion estimates were adjusted for model misclassification error using the procedure of Cook and Lord (1978). The variance and 90% confidence intervals for adjusted estimates were calculated using the procedure of Pella and Robertson (1979).

Other Age Group Stock Composition Estimation. Stock composition for sockeye salmon of other age groups (i.e., ages other than -1.2 and -2.2 in 1983; -2.2 in 1984, 1989, and 1994; -1.3 and -2.2 in 1985, 1986, 1988, and 1991; -1.2, -1.3, and -2.3 in 1987; -2.2 and -2.3 in 1990, 1992, 1993, and 1995) were estimated by combining LDF model results with spawning escapement age composition information (Bue et al. 1986; Cross and Stratton 1989, 1991; Burns 1991; Cross et al.

1992; Stratton et al. 1992; Stratton and Miller 1993, 1994). This method consisted of: (1) averaging proportions by stock estimated from LDF models; (2) calculating the ratio in each escapement of the age in question to the combined proportion of ages examined with LDF analysis; (3) multiplying average proportions by stock by escapement ratios; and, (4) scaling these products so they summed to 100% by adding the products and dividing each stock proportion by the total. The assumptions made with this technique were that: (1) age composition of a stock was the same for both catch and escapement; and (2) exploitation rates for other ages within a stock were equal to the average exploitation rate estimated from LDF model results.

Run Size Estimation

Sockeye salmon run size to each river was estimated by adding estimates of catch by stock to escapement estimates. For each river's run, we calculated the percentage that (1) was harvested within the district of origin; (2) was harvested outside the district of origin; and (3) escaped the fishery.

RESULTS

Catch and Escapements

Sockeye salmon catches in Naknek-Kvichak District from 1983-1995 ranged from a low of 2,892,171 in 1986 to a high of 21,559,372 in 1983 (Table 1). Sockeye salmon catches in Egegik District ranged from a low of 4,852,935 in 1986 to a high of 21,600,858 in 1993. Sockeye salmon catches in Ugashik District have ranged from a low of 1,523,520 in 1988 to a high of 6,468,862 in 1985.

Sockeye salmon escapements in Kvichak River ranged from a low of 1,179,322 in 1986 to a high of 10,490,670 in 1984 (Table 1). Sockeye salmon escapements in Naknek River have ranged from a low of 888,294 in 1983 to a high of 3,578,508 in 1991. Sockeye salmon escapements in Egegik River have ranged from a low of 792,282 in 1983 to a high of 2,786,880 in 1991. Sockeye salmon escapements in Ugashik River have ranged from a low of 642,972 in 1988 to a high of 2,457,321 in 1991.

Age Composition

If large differences in age composition among sockeye salmon stocks exist, then comparisons among escapements and catches should indicate the degree of stock mixing (Table 2). Based on age composition, the Naknek-Kvichak District catch seemed to be comprised predominately of Naknek River sockeye salmon in 1986 and 1991, a combination of Naknek and Kvichak Rivers sockeye salmon in 1985, 1987, 1988, 1990, 1992, and 1993, and mostly Kvichak River sockeye salmon in 1983, 1984, 1989, 1994, and 1995. The Egegik District catch seemed to be comprised predominately of Egegik River sockeye salmon in 1983, 1984, 1987, and 1993 since catch age composition was very similar to the Egegik River escapement age composition. In 1985, 1986, 1988, 1990, 1991, 1994 and 1995, there were higher percentages of 3-ocean (age-1.3 and -2.3) sockeye salmon in Egegik District catch than in the escapement, while in 1989 and 1992 there were higher percentages of 2-ocean sockeye salmon in the catch than in the escapement, suggesting that other stocks may have contributed to Egegik District catches. The Ugashik District catch seemed to be comprised predominately of Ugashik River sockeye salmon in 1986 since catch age composition was very similar to the Ugashik River escapement age composition. In 1983 and 1989, there were higher percentages of age-2.2 in Ugashik District catches than in the escapement, and in 1993 there were higher percentages of age-2.2 and age-1.3 in catches than in the escapement. In 1995 there were higher percentages of age-2.2 and age-2.3 in catches than in the escapement. In 1984, 1985, 1988, 1990, 1991, and 1992, there were higher percentages of 3-ocean sockeye salmon in the Ugashik District catch than the escapement, while in 1987 and 1994 there were higher percentages of age-2.3 sockeye salmon in the Ugashik District catch than the escapement suggesting that other stocks may have contributed to Ugashik District catches.

Classification Models

The accuracy of classification models has varied each year. For most years (1983-1992; Appendices B.1-B.10) Egegik River sockeye salmon could usually be accurately separated from other stocks. Our ability to accurately identify Egegik sockeye salmon was based on differences in the size of freshwater growth zones. Egegik River sockeye salmon scales had much larger freshwater growth zones than any of the other stocks examined. However, in recent years (1993-1995; Appendices B.11- B.13) the size of Egegik River sockeye salmon freshwater growth zones has become more variable and less distinct resulting in a lower classification accuracy for this system. Kvichak River scales were distinct due to their small freshwater growth zones in 1983, 1985, 1987, 1989, and 1990. Therefore, estimates of Kvichak River contributions were extremely accurate for those years. Scales from Naknek and Ugashik stocks were more difficult to differentiate. Ugashik River sockeye salmon scales usually have freshwater growth intermediate between Naknek and Egegik Rivers. Although in 1985, 1991, 1993, 1994, and 1995 Ugashik River contribution estimates were more accurate. Estimates were less accurate in 1983, 1984, and 1986-1990, mainly due to misclassification with Naknek River stocks, and in 1992 due to misclassification with both Naknek and Kvichak River stocks. Estimates of Naknek River sockeye

salmon contributions were the least accurate for all study years. Naknek scales have had the widest variation in freshwater growth zone size and often misclassified to Kvichak and Ugashik Rivers during 1983-1995.

In 1983, the mean classification accuracy for age-1.2 and age-2.2 sockeye salmon four-way models was 70.5% and 72.4% (Appendix B.1). Classification accuracy of the four-way age-1.2 model was greatest for Egegik (83.7%) and Kvichak (81.5%) Rivers and least for Naknek River (50.5%) sockeye salmon. Classification accuracy of the age-2.2 four-way model was similar for Egegik (77.5%), Ugashik (77.0%), and Kvichak (72.9%) Rivers, and least for Naknek (62.0%) River sockeye salmon.

In 1984, the mean classification accuracy for the age-2.2 sockeye salmon four-way model was 73.5% (Appendix B.2). Classification accuracy was greatest for Egegik (81.1%) and Ugashik (79.7%) Rivers, and similar for Kvichak (68.3%) and Naknek (65.1%) Rivers.

In 1985, the mean classification accuracy for age-1.3 and age-2.2 sockeye salmon four-way models was 80.2% and 80.6% (Appendix B.3). Classification accuracy of the four-way age-1.3 model was greatest for Egegik (89.0%), Kvichak (84.9%), and Ugashik (83.5%) Rivers and lower for Naknek River (63.5%). Classification accuracy of the age-2.2 four-way model was greatest for Kvichak (89.5%), and similar for Ugashik (79.0%), Egegik (78.0%), and Naknek (76.0%) River sockeye salmon.

Due to misclassification of Naknek with Kvichak stocks in 1986, three-way models (Naknek-Kvichak, Egegik, Ugashik) were used to classify age-1.3 and age-2.2 sockeye salmon catches. Mean classification accuracy for the age-1.3 model was only 66.9%, while the mean classification accuracy for the age-2.2 three-way model was 81.5% (Appendix B.4). Ugashik River sockeye salmon were classified with greatest accuracy (73.8%) in the age-1.3 model, while Egegik River sockeye salmon had the greatest classification accuracy (87.0%) in the age-2.2 model.

In 1987, the mean classification accuracy for the age-1.2 four-way model was 72.2% (Appendix B.5). Age-1.2 classification accuracy was greatest for Kvichak (88.5%) and Egegik (86.0%) River stocks and lower for Ugashik (60.5%) and Naknek (53.6%) River stocks. In 1987, only Egegik River sockeye salmon could be differentiated from other age-1.3 stocks. The mean classification accuracy for the two-way (Egegik versus others) age-1.3 model was 95.4%. The three-way age-2.3 model for Naknek, Egegik, and Ugashik Rivers had a mean classification accuracy of 76.3%. Classification accuracy was similar for Egegik (81.0%) and Ugashik (82.5%) River stocks in the age-2.3 model.

In 1988, the mean classification accuracy for age-1.3 and age-2.2 sockeye salmon four-way models was 73.5% and 73.4% (Appendix B.6). Classification accuracy of the four-way age-1.3 model was greatest for Egegik River (87.5%) and least for Naknek River (60.1%) sockeye salmon. Classification accuracy of the age-2.2 four-way model was greatest for Ugashik (80.0%), similar for Egegik (74.0%) and Kvichak (73.0%), and least for Naknek (66.7%) River sockeye salmon.

In 1989, the mean classification accuracy for the age-2.2 sockeye salmon four-way model was 75.7% (Appendix B.7). Classification accuracy was greatest for Kvichak River (91.5%), followed by Ugashik (76.0%), Egegik (68.0%), and Naknek (67.5%) Rivers.

In 1990, the mean classification accuracy for age-2.2 and age-2.3 sockeye salmon models was 75.0% and 83.3% (Appendix B.8). Classification accuracy of the four-way age-2.2 model was greatest for Kvichak River (87.3%) and least for Naknek River (60.9%) sockeye salmon. Classification accuracy of the age-2.3 three-way model was similar for Kvichak (84.3%), Naknek-Egegik (83.5%), and Ugashik (82.2%) River sockeye salmon.

Due to misclassification between Kvichak, Naknek, and Ugashik age-1.3 stocks in 1991, a two-way (Egegik versus Kvichak-Naknek-Ugashik) model was used to classify age-1.3 sockeye salmon catches. Mean classification accuracy for the two-way age-1.3 model was 94.7% (Appendix B.9). Misclassification of Kvichak and Naknek River age-2.2 sockeye salmon resulted in a three-way (Kvichak-Naknek, Egegik, Ugashik) age-2.2 model. Mean classification accuracy for the three-way model was 82.0%. Egegik (86.9%) and Ugashik (86.3%) River sockeye salmon were classified with greatest accuracy.

In 1992, the mean classification accuracy for age-2.2 and age-2.3 sockeye salmon models was 70.1% and 74.3% (Appendix B.10). Egegik River stocks had the greatest four-way age-2.2 model classification accuracy (82.0%) followed by Naknek (70.4%), Kvichak (66.5%), and Ugashik (61.5%) River stocks. Due to misclassification between Kvichak and Naknek River age-2.3 sockeye salmon samples, these stocks were pooled to produce a three-way (Kvichak-Naknek, Egegik, Ugashik) model. Classification accuracy of the three-way age-2.3 model was greatest for Ugashik River (77.4%) and least for Kvichak-Naknek (69.1%) River sockeye salmon.

In 1993, the mean classification accuracy for the age-2.2 sockeye salmon model was 70.1% (Appendix B.11). Classification accuracy of this model was greatest for Ugashik River (74.6%) and least for Naknek River (65.1%) sockeye salmon. Misclassification of Kvichak, Naknek, and Ugashik River age-2.3 sockeye salmon resulted in a two-way Egegik versus other (Kvichak-Naknek-Ugashik) age-2.3 model. Mean classification of this model was 85.5%.

Due to misclassification between Kvichak and Naknek River stocks in 1994, a three way (Kvichak-Naknek, Egegik, Ugashik) model was used to classify age-2.2 sockeye salmon catches (Appendix B.12). Mean classification accuracy for this model was 75.7%. Ugashik River sockeye salmon had the greatest classification accuracy (81.1%), while Kvichak-Naknek and Egegik River stocks had an equal classification accuracy (73.0%). Mean classification accuracy for the age-2.2 sockeye salmon two-way (Kvichak, Naknek) model was 78.9%.

In 1995, differences in scale patterns among the four eastside stocks were not great enough to accurately differentiate individual stocks in all three district catches. Due to misclassification between Kvichak and Naknek River age-2.2 sockeye samples, scale measurements from these two stocks were pooled and a three-way model (Kvichak-Naknek pooled, Egegik, Ugashik) was used to classify catches in Egegik and Ugashik Districts. The mean classification accuracy for the three-way age-2.2 model was 75.7% (Appendix B.13). Classification

accuracy of the three-way age-2.2 model was greatest for Ugashik River (82.0%) and least for Egegik River (71.5%) salmon. For estimation of stock composition of Naknek-Kvichak District catches, we needed a model which could differentiate Kvichak from Naknek fish. Simulations showed that a four-way age-2.2 model failed to correctly classify Naknek River sockeye salmon. However, simulations showed that the three-way (Kvichak-Naknek pooled, Egegik, Ugashik) age-2.2 model could differentiate the three stock groupings. The three-way age-2.2 model indicated that there were no (or the numbers were less than we could detect) Egegik or Ugashik River fish present in the 1995 Naknek-Kvichak catch samples. Therefore, we constructed a two-way (Kvichak, Naknek) age-2.3 model which could differentiate between the two primary stocks in the Naknek-Kvichak District and used it to classify that district's catches. The mean classification accuracy for the two-way (Kvichak, Naknek) age-2.3 model was 79.3% (Appendix B.13), with individual classification accuracies equaling 79.0% for Kvichak and 79.6% for Naknek Rivers.

Catch Composition Estimates

Most sockeye salmon harvested in Naknek-Kvichak, Egegik, and Ugashik Districts originated from rivers within the district (Table 3). However, sockeye salmon stocks from other districts were present in all harvests. In general, Egegik and Ugashik District catches were comprised of greater percentages of non-local stocks than Naknek-Kvichak District harvests (Appendices C.1 through E.13).

Naknek-Kvichak District

There were no significant trends (NSC = nonstatistical comparison) through time in stock percentages for sockeye salmon catches in Naknek-Kvichak District during 1983-1995 (Appendices C.1-C.13). Sockeye salmon from Kvichak and Naknek Rivers accounted for 74.7% to 100% (average: 90.0%) of the total Naknek-Kvichak District catch for all years studied (Table 3; Figures 2-3). Conversely, the total catch of stocks bound for other districts ranged from 0% (or a number too small to be detected by the model) to 25.3% (average: 10.0%). The percent contribution of Naknek River sockeye salmon to the Naknek-Kvichak District catch ranged from 7.3% in 1983 to 82.0% in 1986 (average: 32.2%). The contribution of Naknek origin sockeye salmon in numbers of fish ranged from 494,333 in 1988 to 6,935,170 in 1990. The contribution of Kvichak River sockeye salmon to the Naknek-Kvichak District catch varied from 7.5% in 1986 to 88.2% in 1983 (average: 57.9%). The contribution of Kvichak origin sockeye salmon in numbers of fish ranged from 216,383 in 1986 to 19,008,392 in 1983. Percent contribution of Egegik sockeye salmon to Naknek-Kvichak District catch ranged from < 0.1% in 1994 and 1995 to 13.8% in 1992 (average: 4.3%). The contribution of Egegik origin sockeye salmon in numbers of fish to the Naknek-Kvichak District harvest ranged from 0 (or a number too small to be detected by the model) in 1994 and 1995 to 1,301,302 in 1992. Percent contribution of Ugashik River sockeye salmon to Naknek-

Kvichak District catch varied from < 0.1% to 11.5% in 1992 (average: 5.6%). The contribution of Ugashik origin sockeye in numbers of fish ranged from 0 (or a number too small to be detected by the model) in 1995 to 1,519,495 in 1989.

Egegik District

The percent contribution of Egegik River origin sockeye salmon to Egegik District catches has varied considerably through time (Appendices D.1-D.13). Egegik River stock contribution to total Egegik District sockeye salmon catches ranged from 56.6% in 1984 to 91.5% in 1994 (average: 75.9%; Table 3; Figures 4-5). The contribution of Egegik origin sockeye salmon in numbers of fish ranged from 2,942,155 in 1984 to 18,912,356 in 1993. The combined catch of Kvichak, Naknek, and Ugashik stocks in Egegik District ranged from 8.5% to 43.4% of the district catch (average: 24.1%).

Kvichak River sockeye salmon contributions to Egegik District catches have ranged from 1.4% in 1993 to 23.0% in 1985 (average: 9.9%). The contribution of Kvichak origin sockeye salmon in numbers of fish ranged from 140,100 in 1986 to 1,743,967 in 1995. The percentage of Naknek River sockeye salmon in Egegik District catches varied from 0.5% in 1994 to 21.3% in 1984 (average: 7.6%). Naknek origin sockeye salmon contributions in numbers of fish ranged from 53,545 in 1994 to 1,165,839 in 1989. Ugashik River stock contribution to the Egegik District sockeye salmon catch ranged from 1.9% in 1983 to 11.6% in 1987 (average: 6.6%). The contribution of Ugashik origin sockeye in numbers of fish ranged from 125,827 in 1983 to 1,568,514 in 1993.

Ugashik District

There were trends through time (NSC) in stock contributions to sockeye salmon catches in Ugashik District during 1983-1995 (Appendices E.1-E.13). In general, the percent contribution of Ugashik River sockeye salmon to the Ugashik District catch increased as the season progressed, while the percent contribution of other sockeye salmon stocks (Kvichak, Naknek, and Egegik) decreased.

The contribution of Ugashik River sockeye salmon to the Ugashik District catch ranged from 52.8% in 1984 to 87.1% in 1989 (average: 73.0%; Table 3; Figures 6-7). The contribution of Ugashik origin sockeye salmon in numbers of fish ranged from 1,185,890 in 1988 to 4,408,013 in 1985. The combined catch of Kvichak, Naknek, and Egegik stocks in Ugashik District ranged from 12.9% to 47.2% of the total district catch (average: 27.0%).

Kvichak River sockeye salmon have comprised from 0.2% to 14.4% of the Ugashik District catch during 1983-1995 (average: 5.6%). The contribution of Kvichak origin sockeye salmon in numbers of fish ranged from 10,318 in 1993 to 598,517 in 1985. Naknek River sockeye salmon contributed from 0.3% in 1990 to 24.0% in 1993 (average: 10.0%). The contribution of Naknek

origin sockeye salmon in numbers of fish ranged from 7,220 in 1990 to 1,061,901 in 1985. The percent contribution of Egegik sockeye salmon to the Ugashik District catch ranged from 5.4% in 1987 to 20.3% in 1990 (average: 11.4%). The contribution of Egegik origin sockeye salmon in numbers of fish ranged from 114,294 in 1987 to 852,600 in 1986.

Run by River System

Harvest of a sockeye salmon run outside its district of origin must be considered when determining spawner-return relationships, setting optimum spawning escapement goals, and implementing stock specific regulations. The percent of a total run harvested outside its district of origin can greatly influence the effectiveness of achieving stock specific catch and escapement goals.

Kvichak River

From 1983 to 1995, the total run of sockeye salmon to Kvichak River ranged from 1,674,058 in 1986 to 28,216,413 in 1995 (Figures 8-12). The percent of the Kvichak River total run harvested outside Naknek-Kvichak District varied from 1.7% in 1983 to 16.6% in 1986 (average: 7.1%). The percent of the Kvichak River sockeye salmon run caught within Naknek-Kvichak District has varied from 12.9% in 1986 to 82.8% in 1983 (average: 51.0%). The percent of the total Kvichak River sockeye salmon run that escaped ranged from 15.5% in 1983 to 70.5% in 1986 (average: 41.9%).

Naknek River

For 1983-1995, sockeye salmon runs to Naknek River ranged from 2,094,095 in 1988 to 11,013,004 in 1991 (Figures 13-17). The percent of the Naknek River total run caught outside Naknek-Kvichak District varied from 2.9% in 1994 to 34.3% in 1985 (average: 17.0%). The percent of the total run of sockeye salmon to Naknek River caught in the district ranged from 23.6% in 1988 to 74.9% in 1995 (average: 56.3%). The percent of the Naknek River sockeye salmon run that escaped ranged from 14.4% in 1984 to 49.6% in 1988 (average: 26.7%).

Egegik River

Egegik River sockeye salmon runs from 1983-1995 ranged from 4,463,022 in 1984 to 21,752,756 in 1993 (Figures 18-22). The percentage of the Egegik River total run caught outside Egegik District has varied from 2.9% in 1994 to 17.0% in 1986 (average: 8.0%). The percent of the run

caught within the district ranged from 57.0% in 1991 to 87.4% in 1995 (average: 76.1%). The percent of the Egegik River sockeye salmon total run that escaped varied from 7.0% in 1993 to 30.8% in 1991 (average: 15.9%).

Ugashik River

Sockeye salmon runs to Ugashik River varied from 2,477,178 in 1988 to 7,150,391 in 1992 (Figures 23-27). The percent of the Ugashik River sockeye salmon total run caught outside Ugashik District ranged from 8.8% in 1986 to 38.5% in 1984 (average: 24.5%). The percent of the Ugashik River total run caught inside the district ranged from 32.7% in 1984 to 69.4% in 1986 (average 50.5%). The percent of the total Ugashik River run that escaped ranged from 14.9% in 1985 to 51.1% in 1991 (average: 25.0%).

CONCLUSIONS

Ugashik and Egegik District catches were generally comprised of higher percentages of sockeye salmon destined for other districts (1983-1995 average: 27.0% in Ugashik District; 24.1% in Egegik District) than were Naknek-Kvichak District catches (1983-1995 average: 10.0%).

Ugashik (average: 24.5%) and Naknek (average: 17.0%) Rivers have had the greatest portions of their total runs harvested outside their district of origin. Egegik (average: 8.0%) and Kvichak (average: 7.1%) Rivers have had lesser portions of their sockeye salmon runs caught outside their district of origin.

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Tables

Table 1. Catch and escapement of sockeye salmon, east side Bristol Bay, 1983-1995.

	Catch by District [a]			Escapement by River [b]			
Year	Nak-Kvi	Egegik	Ugashik	Kvichak	Naknek	Egegik	Ugashik
1983	21,559,372	6,755,256	3,349,451	3,569,982	888,294	792,282	1,000,614
1984	14,546,710	5,190,413	2,658,376	10,490,670	1,242,474	1,165,320	1,214,418
1985	8,179,093	7,537,273	6,468,862	7,211,046	1,849,938	1,095,192	998,232
1986	2,892,171	4,852,935	5,002,949	1,179,322	1,977,645	1,151,320	1,001,492
1987	4,986,002	5,356,669	2,128,652	6,065,880	1,061,806	1,272,978	668,964
1988	3,480,836	6,456,598	1,523,520	4,065,216	1,037,862	1,612,680	642,972
1989	13,809,956	8,901,994	3,146,239	8,317,500	1,161,984	1,610,916	1,681,302
1990	17,272,224	10,371,762	2,149,009	6,970,020	2,092,578	2,191,362	730,038
1991	10,475,206	6,797,166	2,945,742	4,222,788	3,578,508	2,786,880	2,457,321
1992	9,395,948	15,646,575	3,320,966	4,725,864	1,606,650	1,945,332	2,173,692
1993	8,907,876	21,600,858	4,176,900	4,025,166	1,535,658	1,516,980	1,389,534
1994	16,327,858	10,750,213	4,352,797	8,337,840	990,810	1,897,977	1,095,068
1995	20,279,539	14,425,979	4,509,446	10,038,720	1,111,140	1,265,862	1,304,058

[a] Catch numbers are final for 1983-1995, except Naknek-Kvichak 1995 catch which was later revised to 20,279,581 sockeye salmon.

[b] Escapement numbers represent tower counts

Table 2. Age composition (percent) of sockeye salmon commercial catches and escapements by area and year, east side Bristol Bay, 1983-1995.

Year	District or River	Catch or Esc.	Percent by Age Group 1.2	1.3	2.2	2.3	Other	Total [a]
1983	Nak-Kvi	Catch	78	11	9	2	0	21,559,372
	Kvichak	Esc.	87	4	6	0	3	3,569,982
	Naknek	Esc	44	26	20	7	3	888,294
	Egegik	Catch	9	7	75	8	1	6,755,256
	Egegik	Esc.	8	4	79	9	0	792,282
	Ugashik	Catch	63	10	22	4	1	3,349,451
	Ugashik	Esc.	83	6	7	3	1	1,000,614
1984	Nak-Kvi	Catch	8	16	70	6	0	14,546,710
	Kvichak	Esc.	18	6	73	3	0	10,490,670
	Naknek	Esc	35	24	25	14	2	1,242,474
	Egegik	Catch	11	9	46	34	0	5,190,413
	Egegik	Esc.	19	3	48	28	2	1,165,320
	Ugashik	Catch	27	25	31	16	1	2,658,376
	Ugashik	Esc.	34	11	47	5	3	1,214,418
1985	Nak-Kvi	Catch	9	22	46	23	0	8,179,093
	Kvichak	Esc.	5	9	63	23	0	7,211,046
	Naknek	Esc	21	32	36	10	1	1,849,938
	Egegik	Catch	6	24	50	20	0	7,537,273
	Egegik	Esc.	10	21	57	8	4	1,095,192
	Ugashik	Catch	20	31	42	7	0	6,468,862
	Ugashik	Esc.	24	16	51	8	1	998,232

-Continued-

Table 2. (p 2 of 5)

Year	District or River	Catch or Esc.	Percent by Age Group 1.2	1.3	2.2	2.3	Other	Total [a]
1986	Nak-Kvi	Catch	9	53	18	20	0	2,892,171
	Kvichak	Esc.	25	9	49	17	0	1,179,322
	Naknek	Esc	6	58	15	20	1	1,977,645
	Egegik	Catch	15	18	53	13	1	4,852,935
	Egegik	Esc.	20	6	55	18	1	1,151,320
	Ugashik	Catch	7	42	37	13	1	5,002,949
	Ugashik	Esc.	5	42	36	16	1	1,001,492
1987	Nak-Kvi	Catch	61	22	5	12	0	4,986,002
	Kvichak	Esc.	91	3	5	1	0	6,065,880
	Naknek	Esc	10	39	11	39	1	1,061,806
	Egegik	Catch	26	27	26	21	0	5,356,669
	Egegik	Esc.	25	27	29	19	0	1,272,978
	Ugashik	Catch	18	25	21	35	1	2,128,652
	Ugashik	Esc.	36	20	21	22	1	668,964
1988	Nak-Kvi	Catch	32	44	16	8	0	3,480,836
	Kvichak	Esc.	38	41	17	2	2	4,065,216
	Naknek	Esc	28	26	19	24	3	1,037,862
	Egegik	Catch	8	35	35	21	1	6,456,598
	Egegik	Esc.	6	27	48	14	5	1,612,680
	Ugashik	Catch	20	18	26	35	1	1,523,520
	Ugashik	Esc.	24	10	30	28	8	642,972

-Continued-

Table 2. (p 3 of 5)

Year	District or River	Catch or Esc.	Percent by Age Group 1.2	1.3	2.2	2.3	Other	Total [a]
1989	Nak-Kvi	Catch	9	15	71	5	0	13,809,956
	Kvichak	Esc.	5	6	87	2	0	8,317,500
	Naknek	Esc	22	21	44	10	3	1,161,984
	Egegik	Catch	6	10	61	23	0	8,901,994
	Egegik	Esc.	4	6	53	35	2	1,610,916
	Ugashik	Catch	7	11	74	7	1	3,146,239
	Ugashik	Esc.	15	12	68	4	1	1,681,302
1990	Nak-Kvi	Catch	12	23	45	20	0	17,272,224
	Kvichak	Esc.	3	3	88	6	0	6,970,020
	Naknek	Esc	28	31	28	13	1	2,092,578
	Egegik	Catch	12	12	32	42	2	10,371,762
	Egegik	Esc.	25	5	42	25	3	2,191,362
	Ugashik	Catch	15	24	31	28	2	2,149,009
	Ugashik	Esc.	22	24	38	13	3	730,038
1991	Nak-Kvi	Catch	15	53	13	18	1	10,475,206
	Kvichak	Esc.	61	8	16	13	2	4,222,788
	Naknek	Esc	6	62	17	14	1	3,578,508
	Egegik	Catch	9	40	36	14	1	6,797,166
	Egegik	Esc.	8	31	48	10	3	2,786,880
	Ugashik	Catch	12	47	29	12	0	2,945,742
	Ugashik	Esc.	19	38	38	4	1	2,457,321

-Continued-

Table 2. (p 4 of 5)

Year	District or River	Catch or Esc.	Percent by Age Group 1.2	1.3	2.2	2.3	Other	Total [a]
1992	Nak-Kvi	Catch	11	28	27	30	4	9,395,948
	Kvichak	Esc.	31	16	44	7	2	4,725,864
	Naknek	Esc	10	23	16	43	8	1,606,650
	Egegik	Catch	2	26	46	25	1	15,646,575
	Egegik	Esc.	3	17	60	17	3	1,945,332
	Ugashik	Catch	5	31	30	32	2	3,320,966
	Ugashik	Esc.	13	23	35	26	3	2,173,692
1993	Nak-Kvi	Catch	16	22	30	31	1	8,907,876
	Kvichak	Esc.	23	24	44	5	4	4,025,166
	Naknek	Esc	6	20	14	56	4	1,535,658
	Egegik	Catch	2	5	45	47	1	21,600,858
	Egegik	Esc.	1	5	41	50	3	1,516,980
	Ugashik	Catch	15	24	31	28	2	4,176,900
	Ugashik	Esc.	20	15	27	36	2	1,389,534
1994	Nak-Kvi	Catch	6	13	75	5	1	16,327,858
	Kvichak	Esc.	10	3	84	2	1	8,337,840
	Naknek	Esc	22	14	44	15	5	990,810
	Egegik	Catch	3	4	44	46	3	10,750,213
	Egegik	Esc.	6	1	63	25	5	1,897,977
	Ugashik	Catch	5	7	39	45	4	4,352,797
	Ugashik	Esc.	13	3	66	16	2	1,095,068

-Continued-

Table 2. (p 5 of 5)

Year	District or River	Catch or Esc.	Percent by Age Group					Total [a]
			1.2	1.3	2.2	2.3	Other	
1995	Nak-Kvi	Catch	11	9	67	13	0	20,279,539
	Kvichak	Esc.	8	3	79	10	0	10,038,720
	Naknek	Esc	14	24	45	16	1	1,111,140
	Egegik	Catch	9	5	59	25	2	14,425,979
	Egegik	Esc.	9	4	65	19	3	1,265,862
	Ugashik	Catch	29	11	40	18	2	4,509,446
	Ugashik	Esc.	48	13	31	8	0	1,304,058

[a] Catch numbers are final for 1983-1995, except for 1995 Naknek-Kvichak catch which was later revised to 20,279,581 sockeye salmon. Escapement numbers represent final tower counts.

Table 3. Stock composition of sockeye salmon commercial catches by district, east side Bristol Bay, 1983-1995.

District	Year		Catch by River of Origin					Total Intercepte Catch [b]
			Kvichak	Naknek	Egegik	Ugashik	Total [a]	
Naknek-Kvichak	1983	Numbers	19,008,392	1,574,412	412,781	563,787	21,559,372	976,568
		Percent	88.2	7.3	1.9	2.6	100.0	4.5
	1984	Numbers	7,423,240	5,753,889	13,699	1,355,882	14,546,710	1,369,581
		Percent	51.0	39.6	0.1	9.3	100.0	9.4
	1985	Numbers	5,686,303	1,382,856	404,765	705,169	8,179,093	1,109,934
		Percent	69.6	16.9	4.9	8.6	100.0	13.5
	1986	Numbers	216,383	2,371,142	208,378	96,268	2,892,171	304,646
		Percent	7.5	82.0	7.2	3.3	100.0	10.5
	1987	Numbers	3,066,606	1,382,271	134,518	402,607	4,986,002	537,125
		Percent	61.5	27.7	2.7	8.1	100.0	10.8
	1988	Numbers	2,866,827	494,333	93,754	25,922	3,480,836	119,676
		Percent	82.4	14.2	2.7	0.7	100.0	3.4
	1989	Numbers	9,148,507	2,545,309	596,645	1,519,495	13,809,956	2,116,140
		Percent	66.2	18.5	4.3	11.0	100.0	15.3
	1990	Numbers	9,017,294	6,935,170	512,452	807,308	17,272,224	1,319,760
		Percent	52.1	40.2	3.0	4.7	100.0	7.7
	1991	Numbers	3,332,388	6,122,874	733,827	286,117	10,475,206	1,019,944
		Percent	31.8	58.6	6.9	2.7	100.0	9.6
	1992	Numbers	3,891,433	3,124,652	1,301,302	1,078,561	9,395,948	2,379,863
		Percent	41.4	33.3	13.8	11.5	100.0	25.3
	1993	Numbers	3,949,248	3,720,686	801,991	435,951	8,907,876	1,237,942
		Percent	44.3	41.8	9.0	4.9	100.0	13.9
	1994	Numbers	12,447,685	2,968,701	0	911,472	16,327,858	911,472
		Percent	76.2	18.2	0.0	5.6	100.0	5.6
	1995	Numbers	16,204,154	4,075,385	0	0	20,279,539	0
		Percent	79.9	20.1	0.0	0.0	100.0	0.0

-Continued-

Table 3. (p 2 of 3)

District	Year		Catch by River of Origin					Total Intercepte Catch [c]
			Kvichak	Naknek	Egegik	Ugashik	Total [a]	
Egegik	1983	Numbers	224,589	715,019	5,689,821	125,827	6,755,256	1,065,435
		Percent	3.3	10.6	84.2	1.9	100.0	15.8
	1984	Numbers	844,486	1,103,499	2,942,155	300,273	5,190,413	2,248,258
		Percent	16.3	21.3	56.6	5.8	100.0	43.4
	1985	Numbers	1,734,587	630,371	4,568,287	604,028	7,537,273	2,968,986
		Percent	23.0	8.4	60.6	8.0	100.0	39.4
	1986	Numbers	140,100	362,800	4,044,921	305,114	4,852,935	808,014
		Percent	2.9	7.5	83.3	6.3	100.0	16.7
	1987	Numbers	469,289	270,238	3,993,739	623,403	5,356,669	1,362,930
		Percent	8.8	5.0	74.6	11.6	100.0	25.4
	1988	Numbers	982,579	411,677	4,439,948	622,394	6,456,598	2,016,650
		Percent	15.2	6.4	68.8	9.6	100.0	31.2
	1989	Numbers	1,455,732	1,165,839	5,372,456	907,967	8,901,994	3,529,538
		Percent	16.4	13.1	60.3	10.2	100.0	39.7
	1990	Numbers	1,732,265	302,816	8,098,410	238,271	10,371,762	2,273,252
		Percent	16.6	3.0	78.0	2.4	100.0	22.0
	1991	Numbers	456,962	723,108	5,150,038	467,058	6,797,166	1,647,128
		Percent	6.7	10.6	75.8	6.9	100.0	24.2
	1992	Numbers	430,347	1,155,066	13,043,161	1,018,001	15,646,575	2,603,414
		Percent	2.8	7.4	83.3	6.5	100.0	16.7
	1993	Numbers	307,695	812,293	18,912,356	1,568,514	21,600,858	2,688,502
		Percent	1.4	3.8	87.5	7.3	100.0	12.5
	1994	Numbers	298,895	53,545	9,840,734	557,039	10,750,213	909,479
		Percent	2.8	0.5	91.5	5.2	100.0	8.5
	1995	Numbers	1,743,967	227,485	11,849,706	604,821	14,425,979	2,576,273
		Percent	12.0	1.6	82.1	4.3	100.0	17.9

-Continued-

Table 3. (p 3 of 3)

District	Year		Catch by River of Origin					Total Intercepted Catch [d]
			Kvichak	Naknek	Egegik	Ugashik	Total [a]	
Ugashik	1983	Numbers	162,393	145,427	627,962	2,413,669	3,349,451	935,782
		Percent	4.8	4.3	18.7	72.2	100.0	27.8
	1984	Numbers	381,757	529,545	341,848	1,405,226	2,658,376	1,253,150
		Percent	14.4	19.9	12.9	52.8	100.0	47.2
	1985	Numbers	598,517	1,061,901	400,431	4,408,013	6,468,862	2,060,849
		Percent	9.3	16.4	6.2	68.1	100.0	31.9
	1986	Numbers	138,253	831,915	852,600	3,180,181	5,002,949	1,822,768
		Percent	2.8	16.6	17.0	63.6	100.0	36.4
	1987	Numbers	50,141	233,742	114,294	1,730,475	2,128,652	398,177
		Percent	2.4	10.9	5.4	81.3	100.0	18.7
	1988	Numbers	46,178	150,223	141,229	1,185,890	1,523,520	337,630
		Percent	3.0	9.9	9.3	77.8	100.0	22.2
	1989	Numbers	115,095	31,061	257,644	2,742,439	3,146,239	403,800
		Percent	3.7	1.0	8.2	87.1	100.0	12.9
	1990	Numbers	110,485	7,220	436,199	1,595,105	2,149,009	553,904
		Percent	5.1	0.3	20.3	74.3	100.0	25.7
	1991	Numbers	414,363	588,514	367,246	1,575,619	2,945,742	1,370,123
		Percent	14.1	20.0	12.5	53.4	100.0	46.6
	1992	Numbers	87,241	172,832	201,991	2,858,902	3,320,966	462,064
		Percent	2.6	5.2	6.1	86.1	100.0	13.9
	1993	Numbers	10,318	1,002,959	521,429	2,642,194	4,176,900	1,534,706
		Percent	0.2	24.0	12.5	63.3	100.0	36.7
	1994	Numbers	246,651	66,385	360,331	3,679,430	4,352,797	673,367
		Percent	5.7	1.5	8.3	84.5	100.0	15.5
	1995	Numbers	229,572	28,952	449,102	3,801,820	4,509,446	707,626
		Percent	5.1	0.6	10.0	84.3	100.0	15.7

[a] Catch totals for 1983-1995 are final, except for 1995 Naknek-Kvichak District catch which was revised to 20,279,581 sockeye salmon.

[b] Total intercepted catch (TIC) for Naknek-Kvichak District = catch of Egegik + catch of Ugashik.

[c] TIC for Egegik District = catch of Kvichak + catch of Naknek + catch of Ugashik.

[d] TIC for Ugashik District = catch of Kvichak + catch of Naknek + catch of Egegik.

Figures

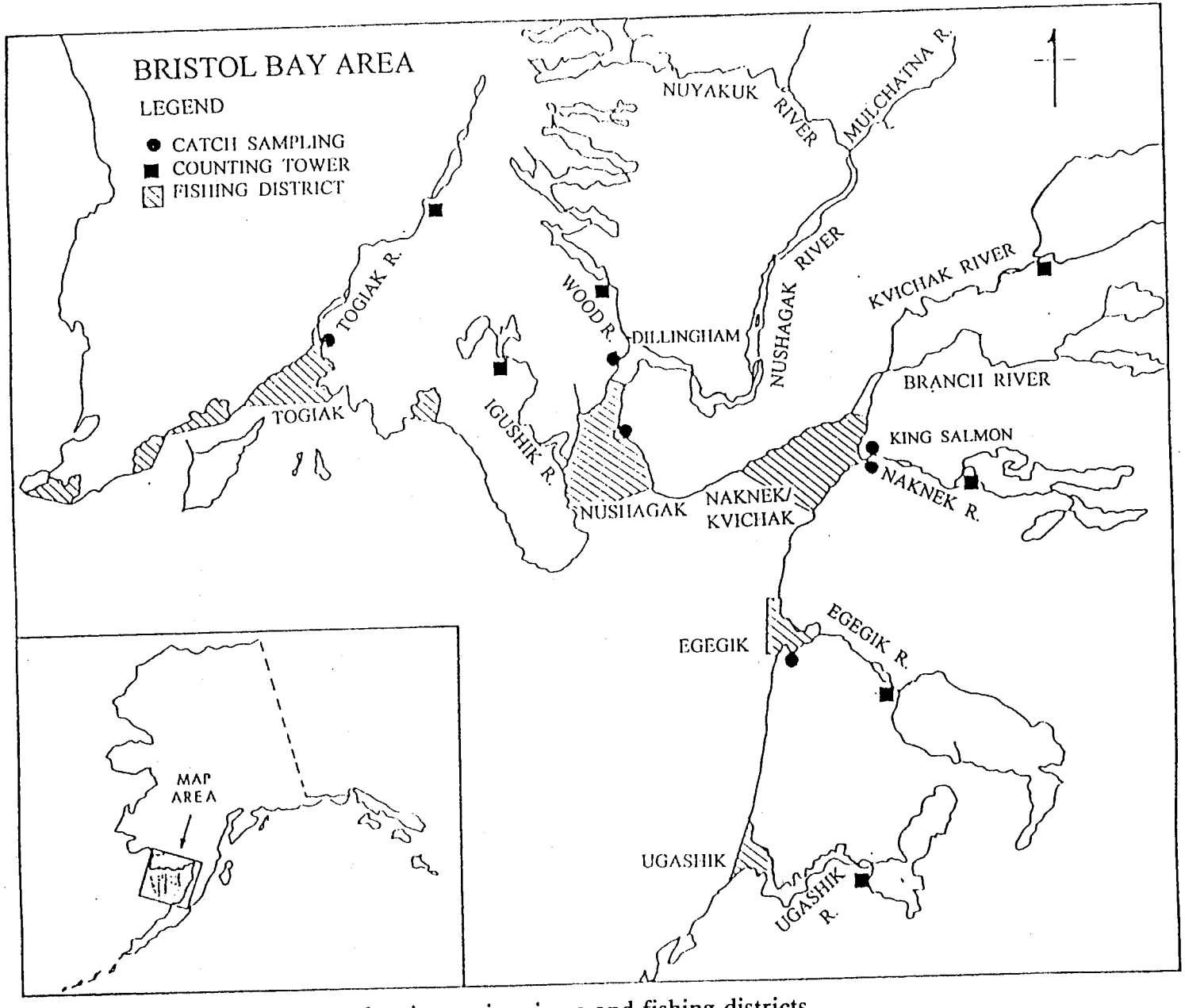

Figure 1. Map of Bristol Bay showing major rivers and fishing districts.

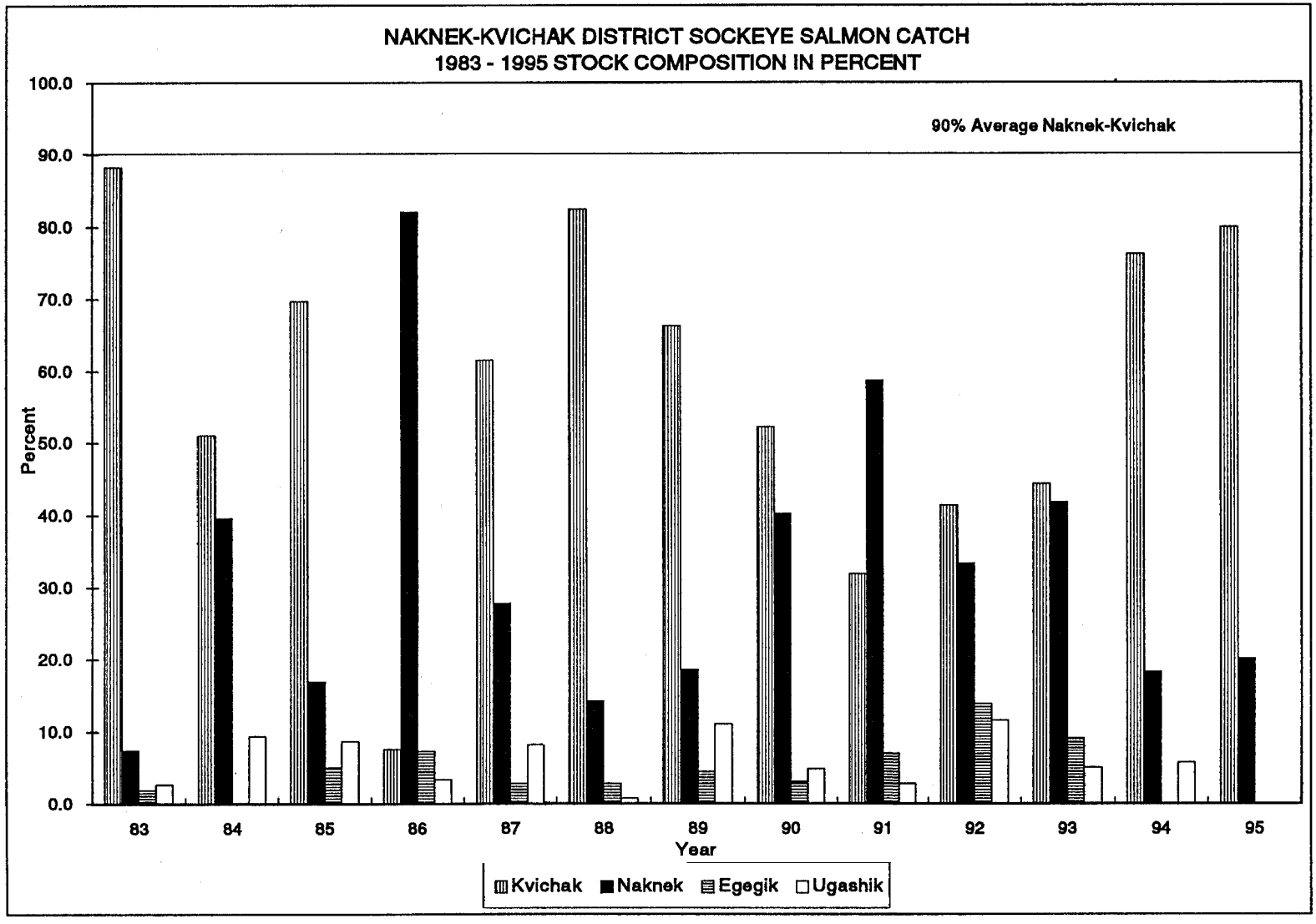

Figure 2. Naknek-Kvichak District sockeye salmon catch stock composition estimates, 1983 - 1995, in percent.

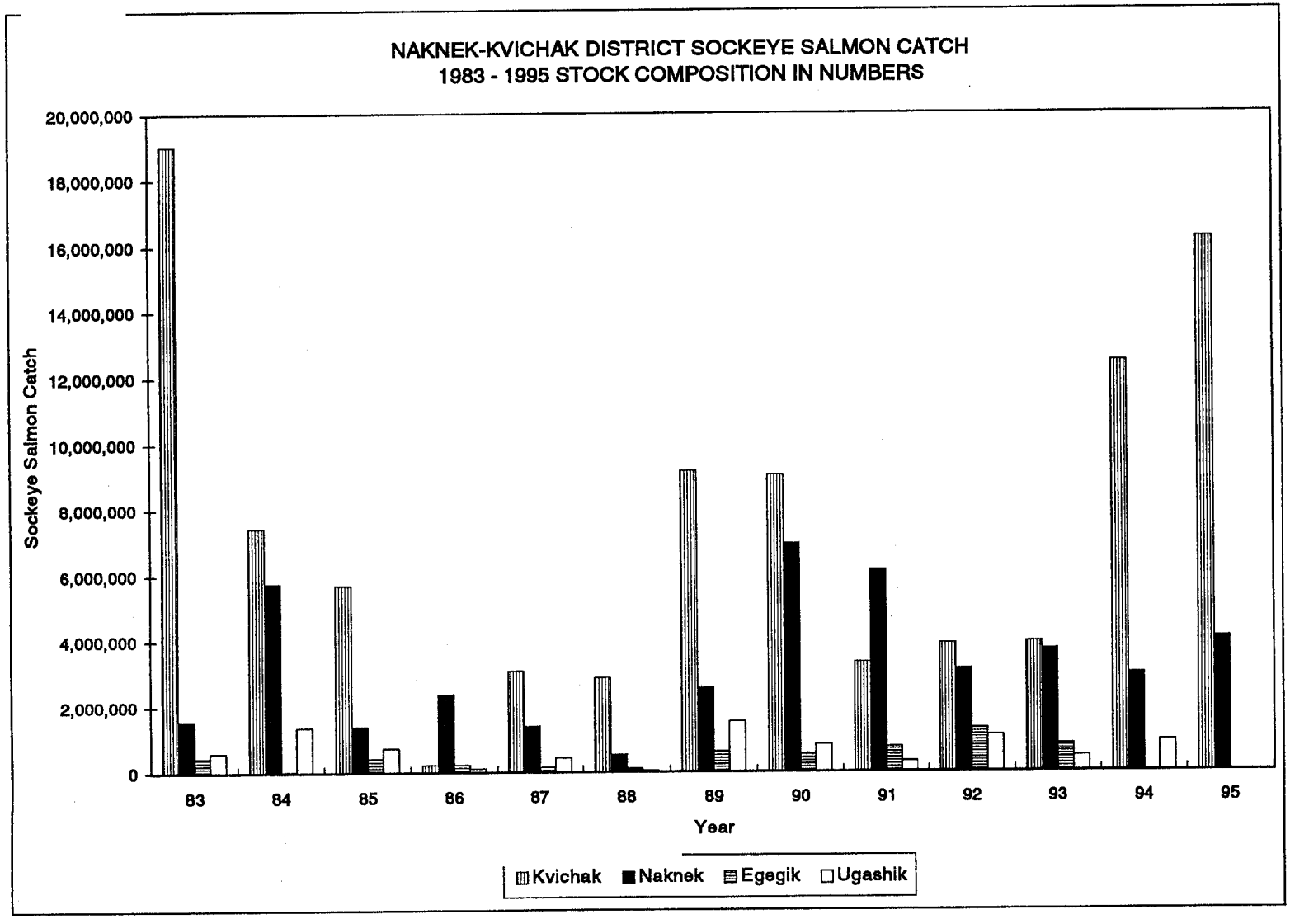

Figure 3. Naknek-Kvichak District sockeye salmon catch stock composition estimates, 1983 - 1995, in numbers of fish.

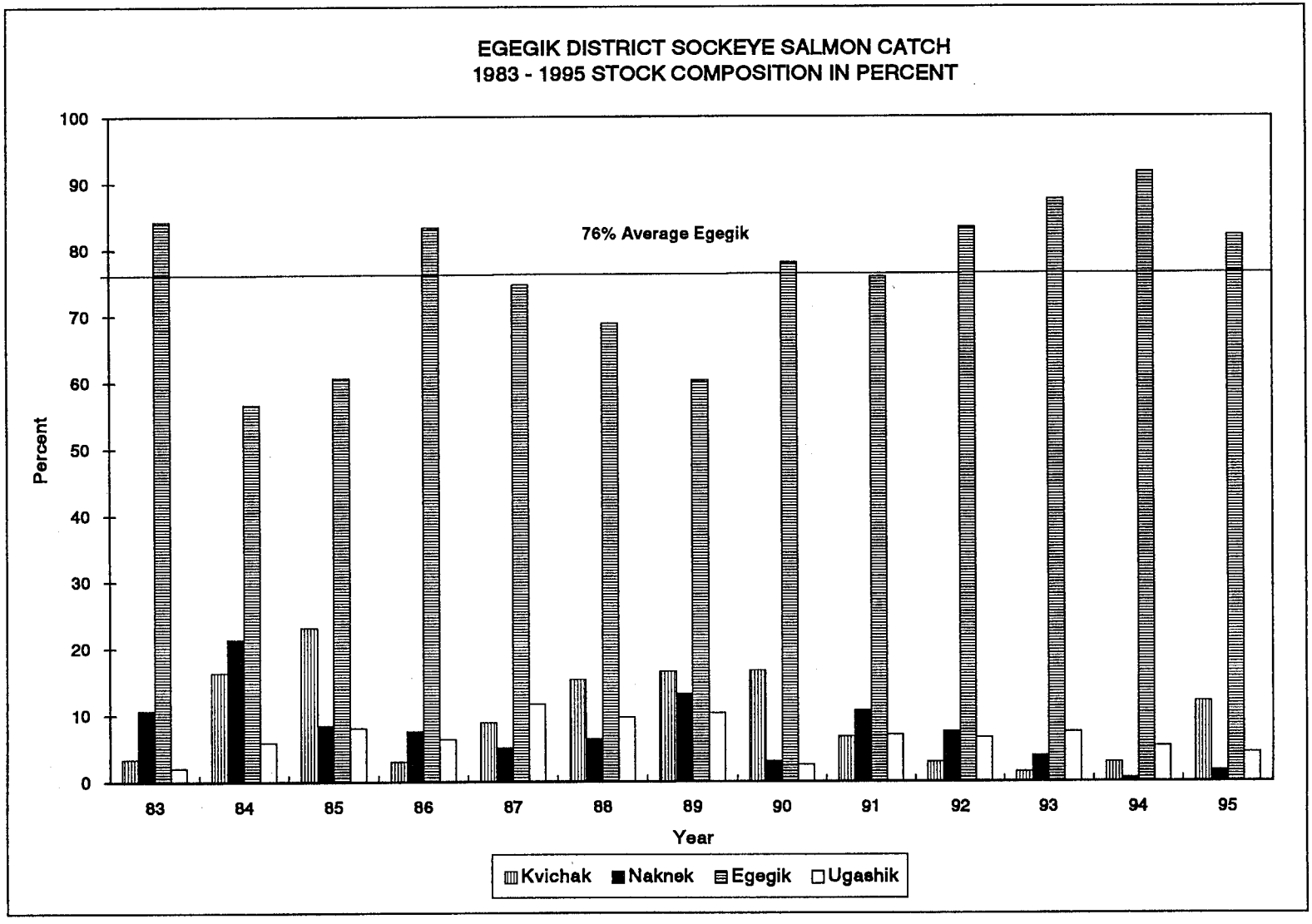

Figure 4. Egegik District sockeye salmon catch stock composition estimates, 1983 - 1995, in percent.

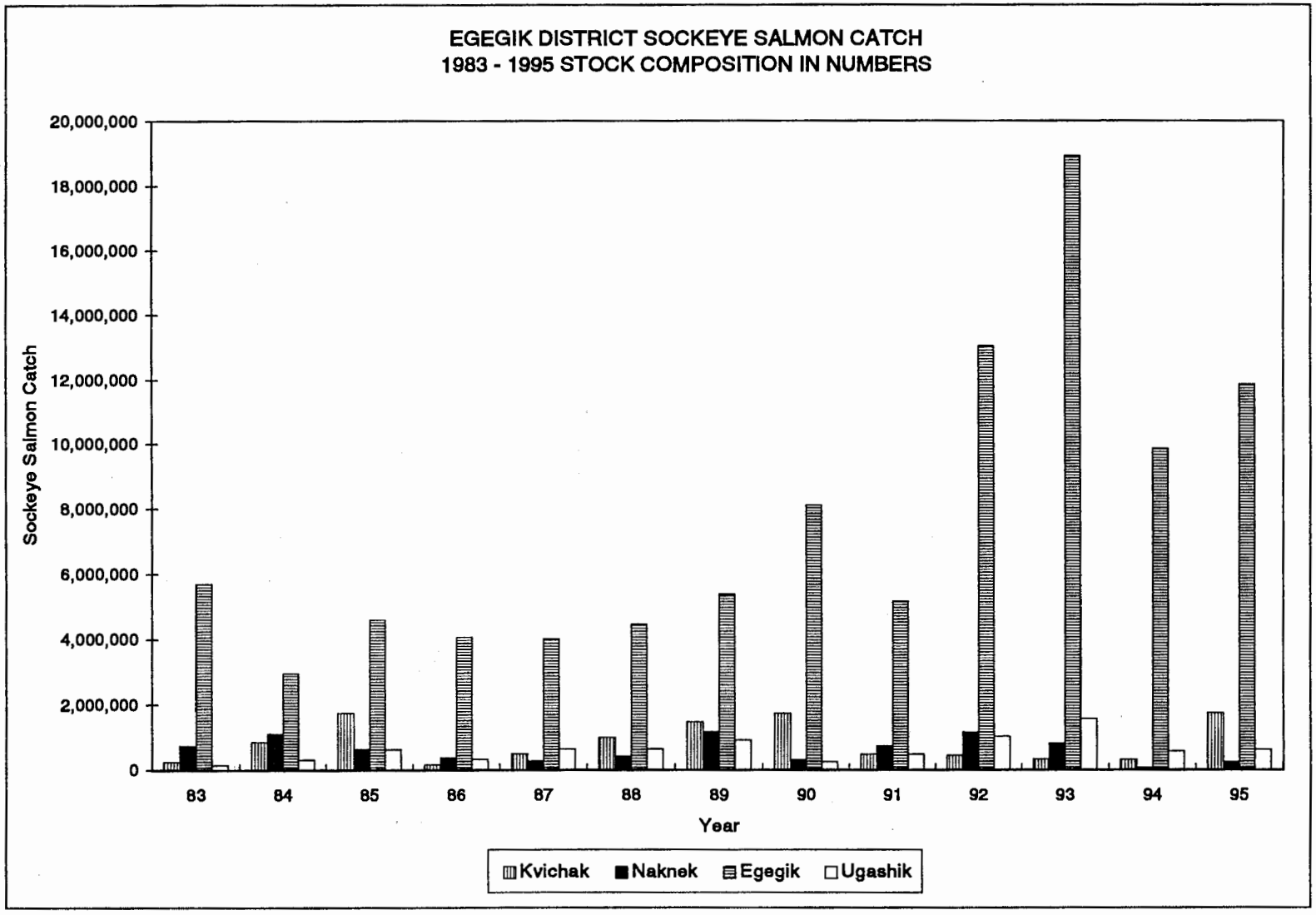

Figure 5. Egegik District sockeye salmon catch stock composition estimates, 1983 - 1995, in numbers of fish.

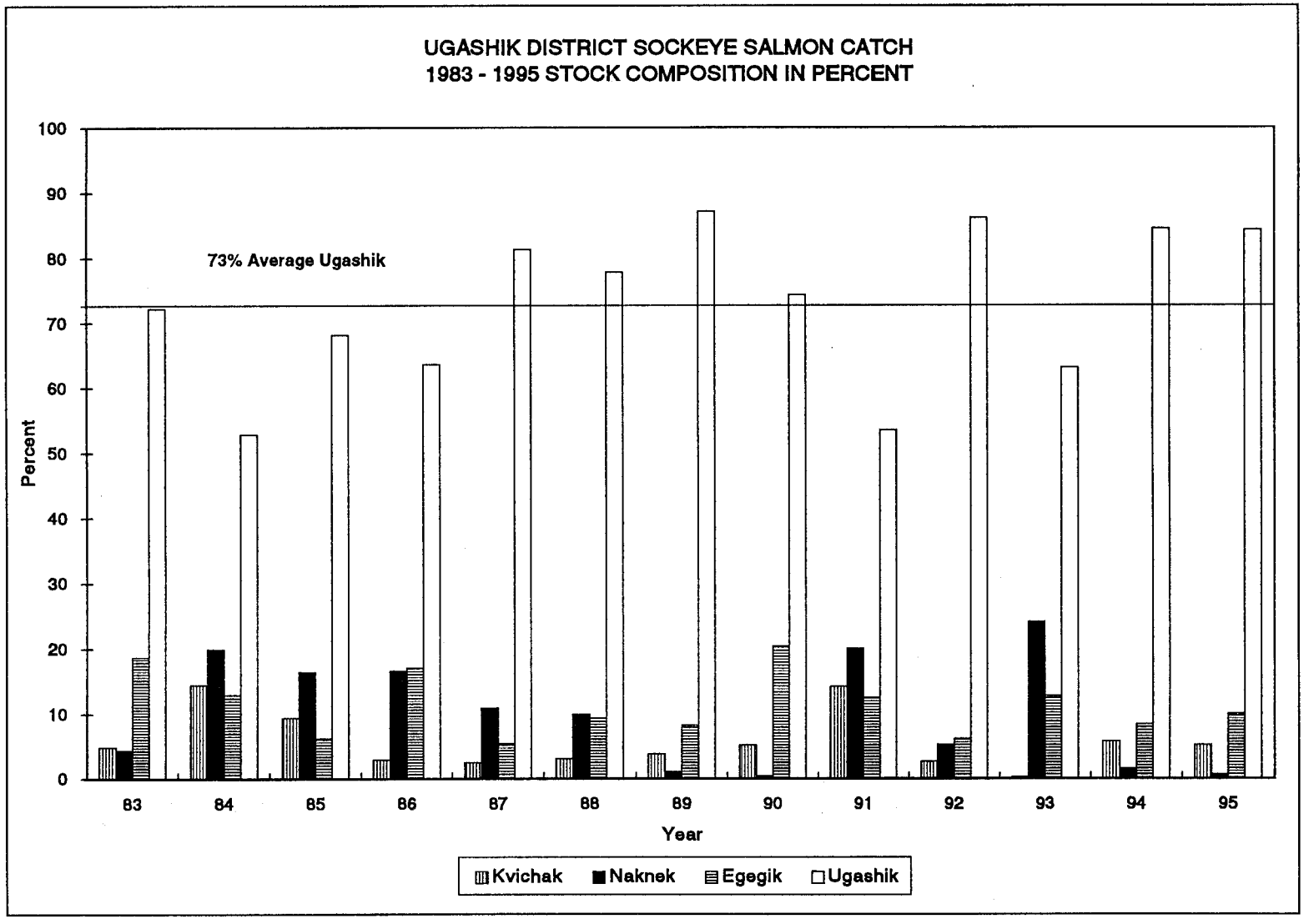

Figure 6. Ugashik District sockeye salmon catch stock composition estimates, 1983 - 1995, in percent.

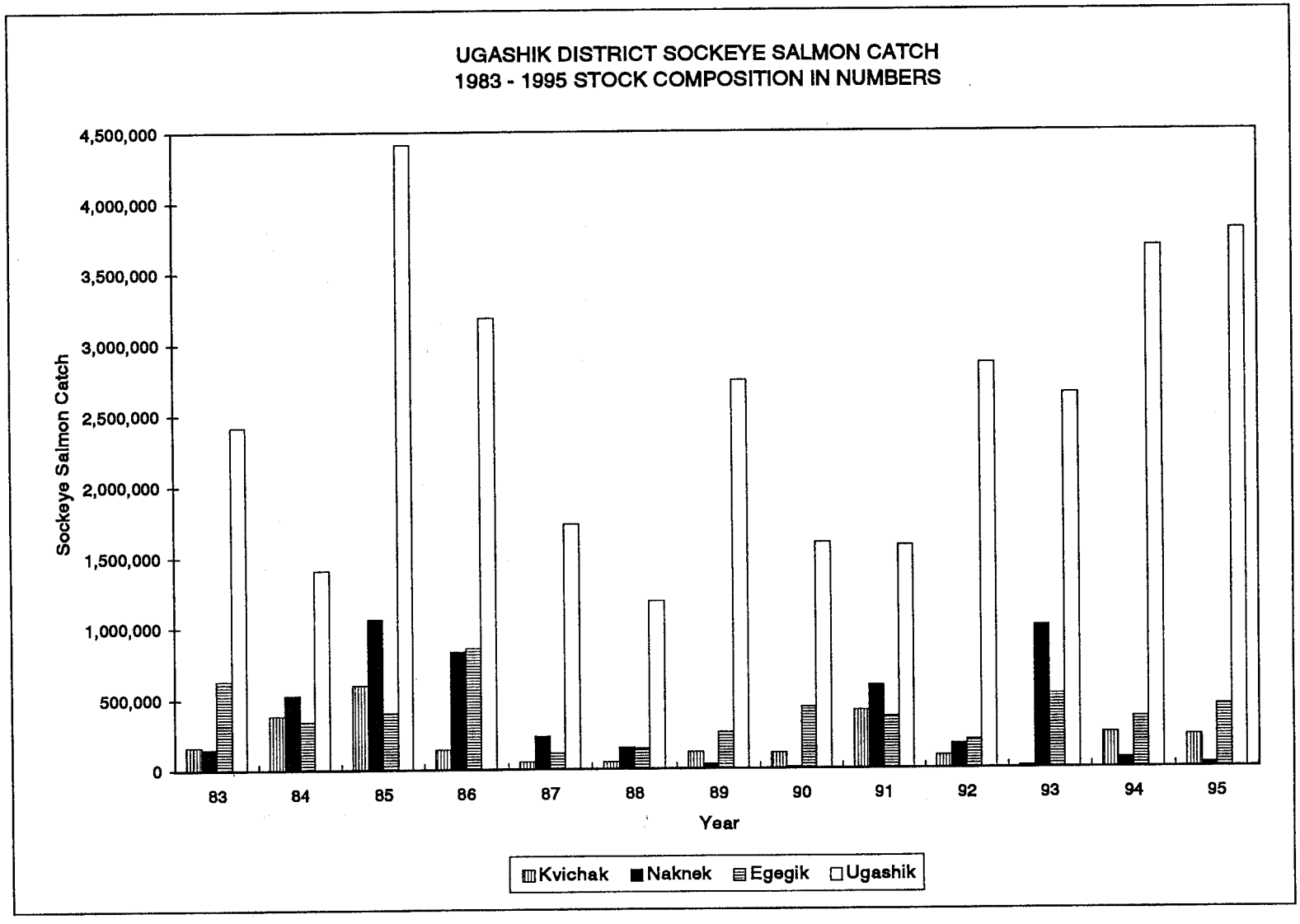

Figure 7. Ugashik District sockeye salmon catch stock composition estimates, 1983 - 1995, in numbers of fish.

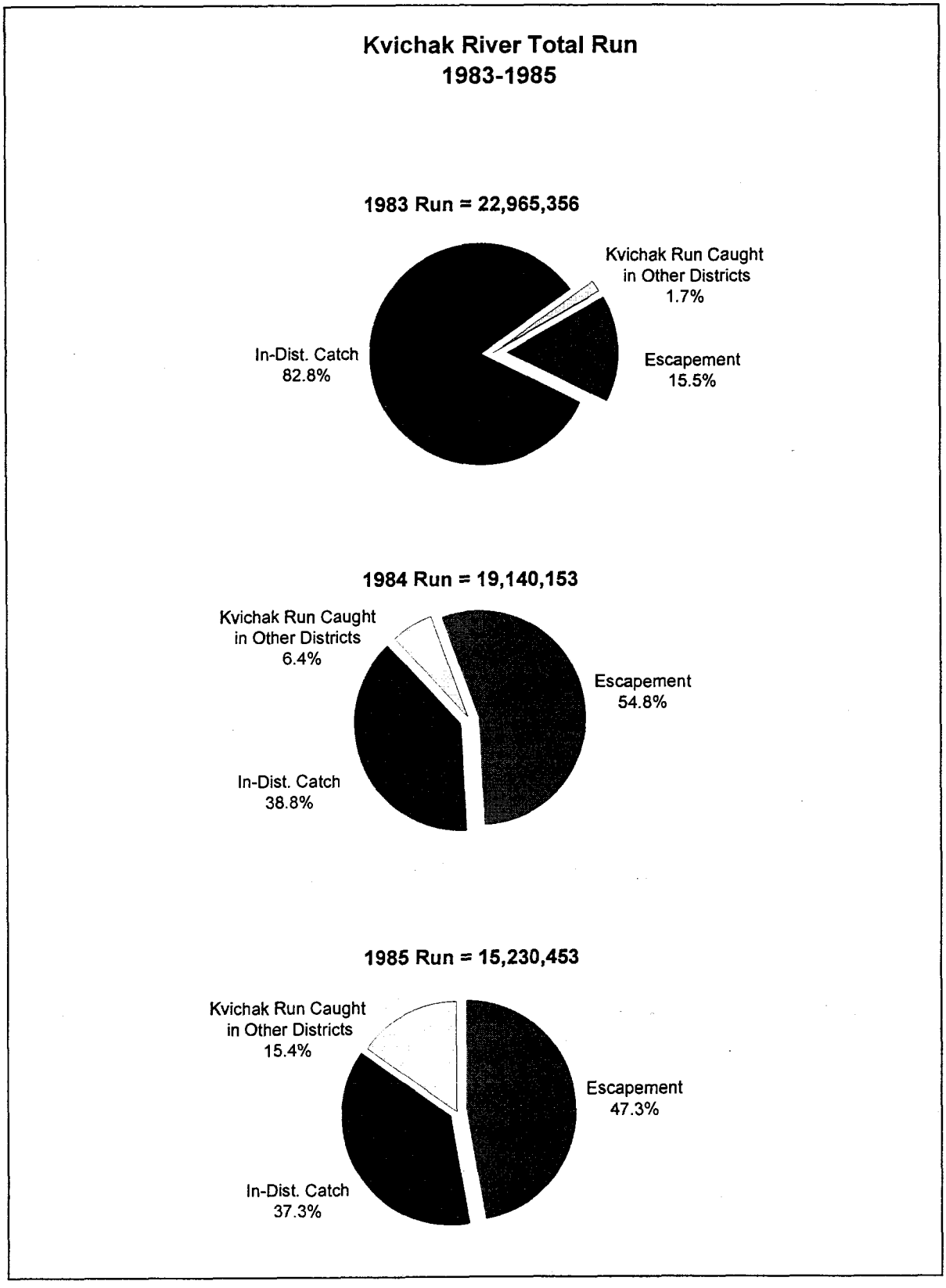

Figure 8. Estimated run of sockeye salmon to Kvichak River in 1983 - 1985 and the percentage of run comprised of escapement, in district catch, and other district catch.

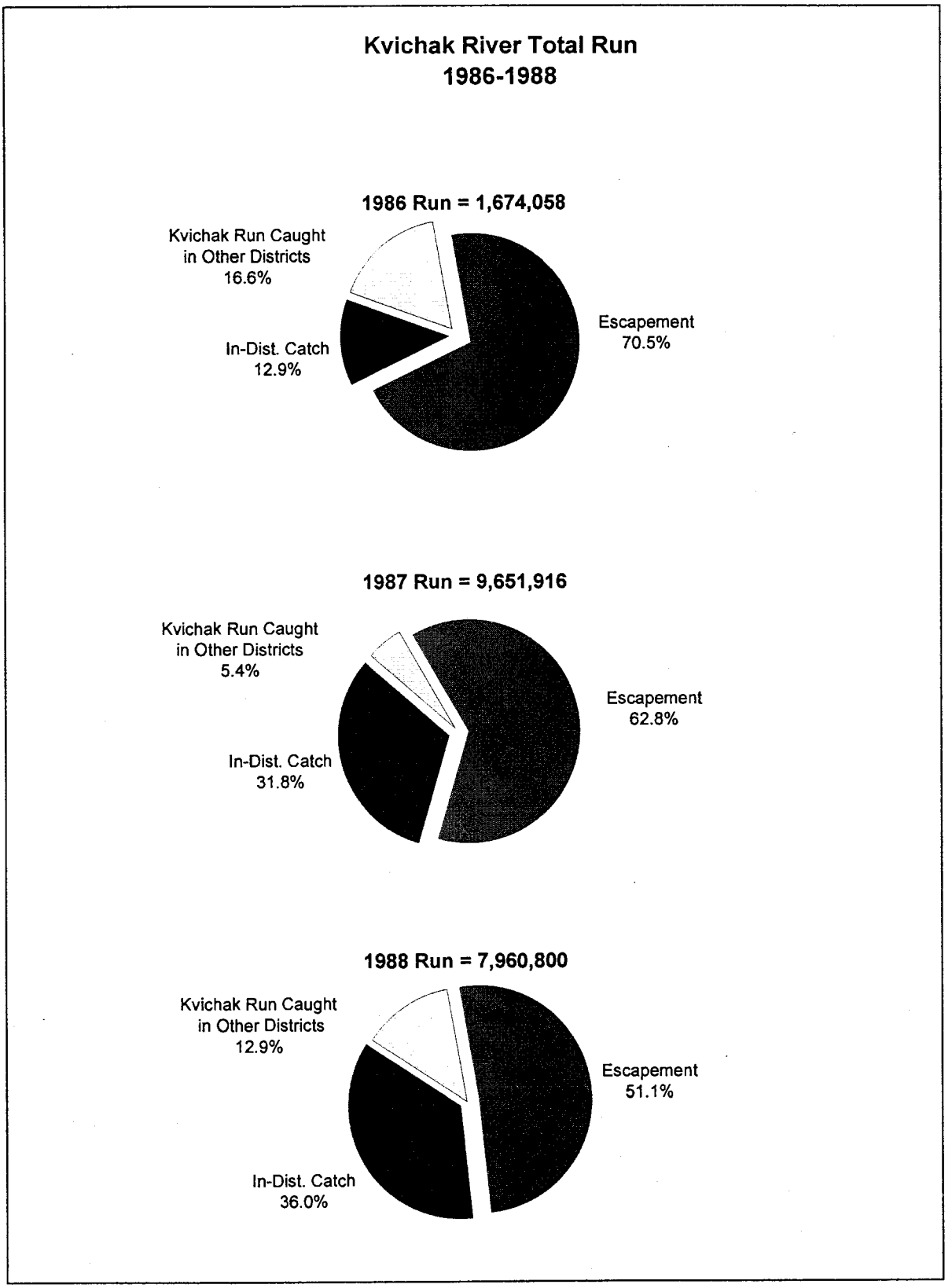

Figure 9. Estimated run of sockeye salmon to Kvichak River in 1986 - 1988 and the percentage of run comprised of escapement, in district catch, and other district catch.

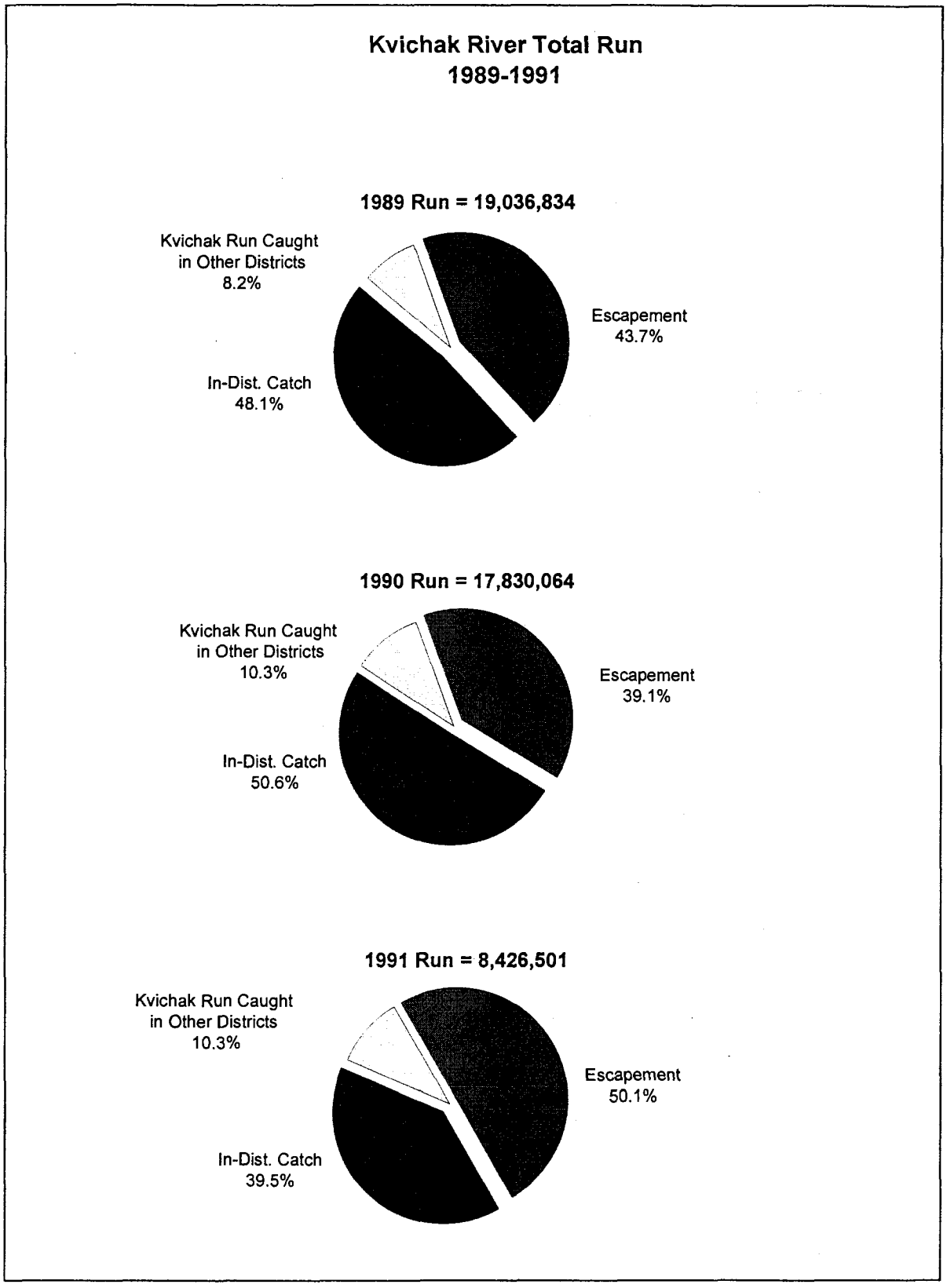

Figure 10. Estimated run of sockeye salmon to Kvichak River in 1989 - 1991 and the percentage of run comprised of escapement, in district catch, and other district catch.

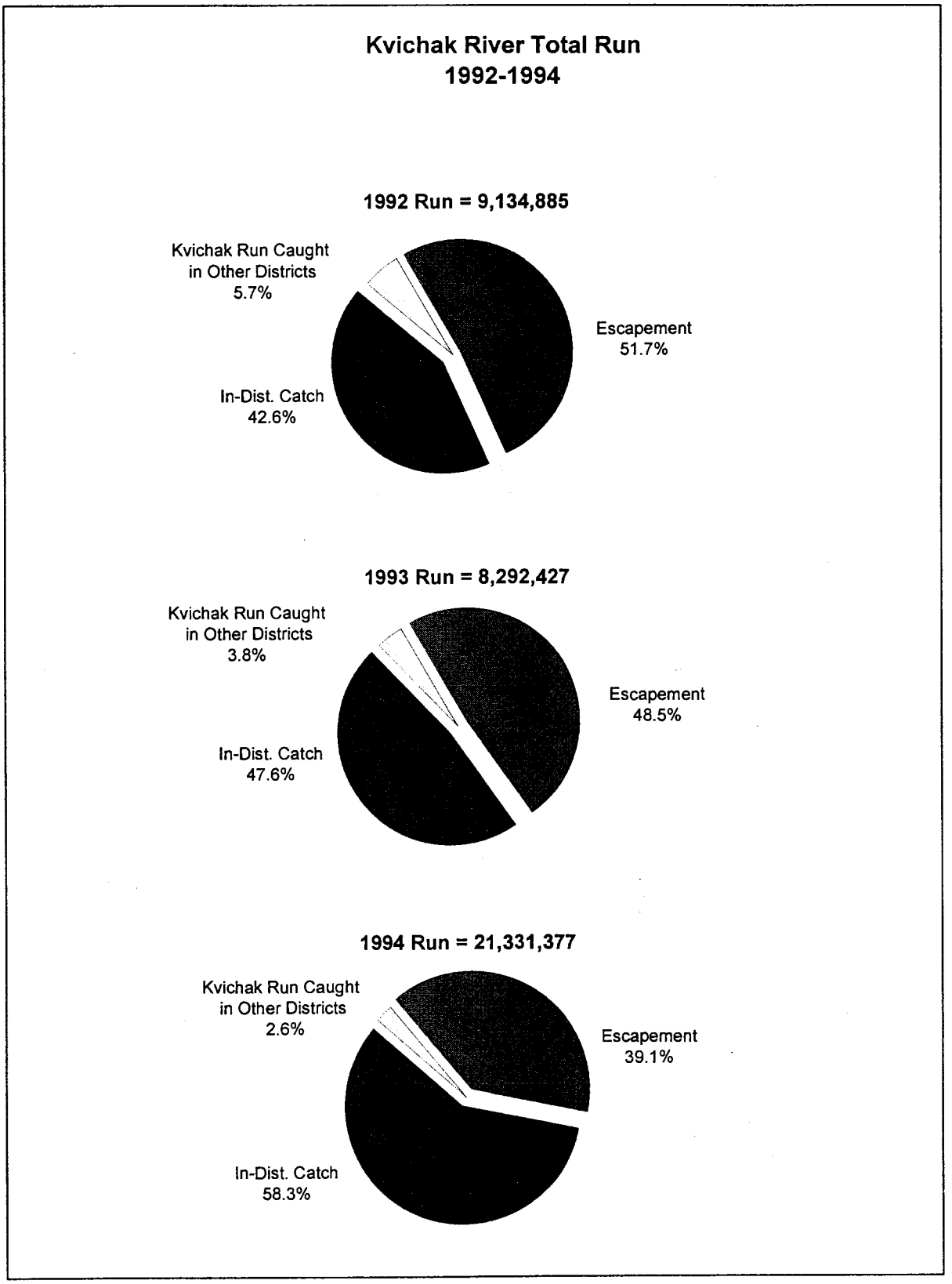

Figure 11. Estimated run of sockeye salmon to Kvichak River in 1992 - 1994 and the percentage of run comprised of escapement, in district catch, and other district catch.

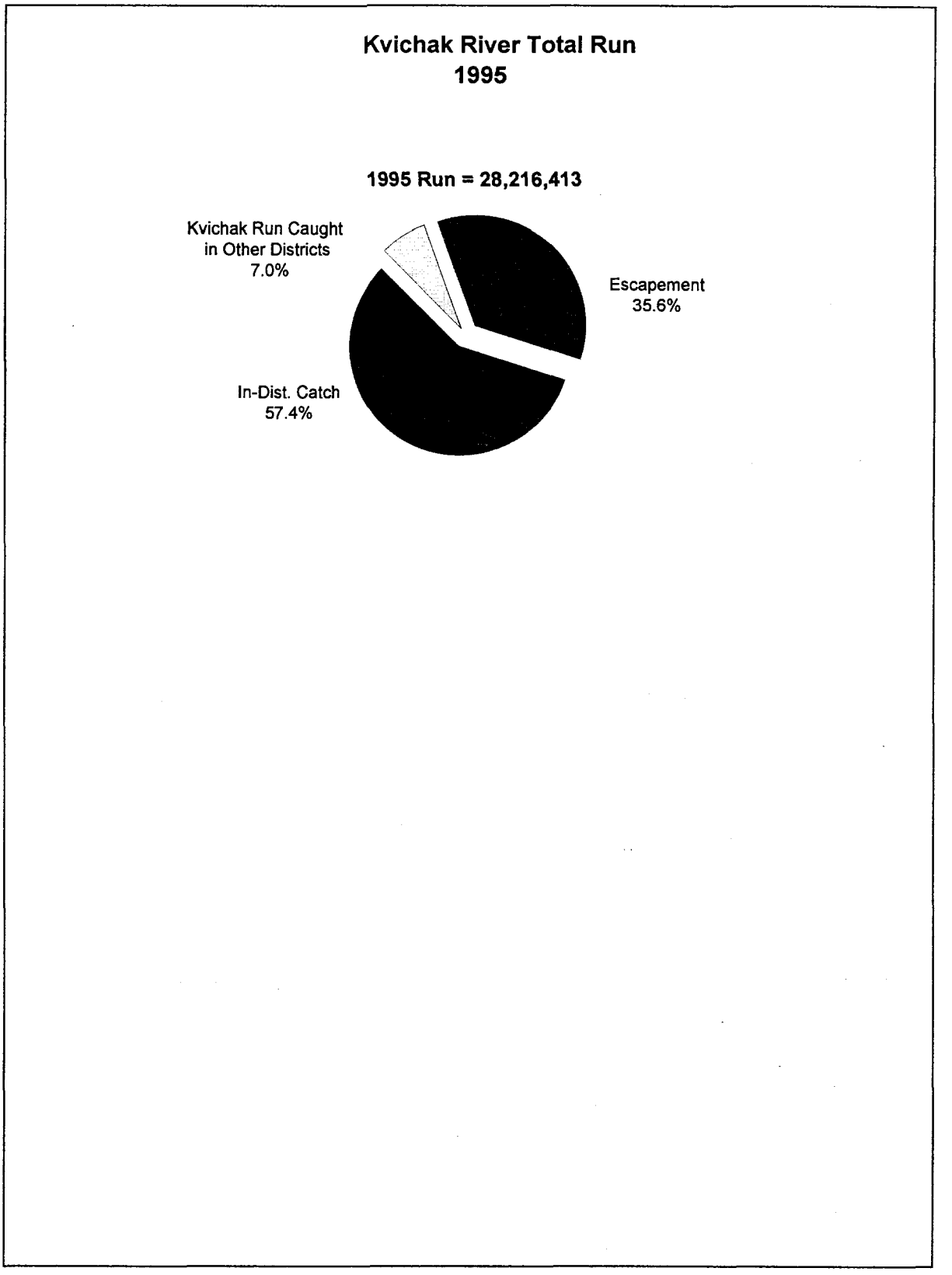

Figure 12. Estimated run of sockeye salmon to Kvichak River in 1995 and the percentage of run comprised of escapement, in district catch, and other district catch.

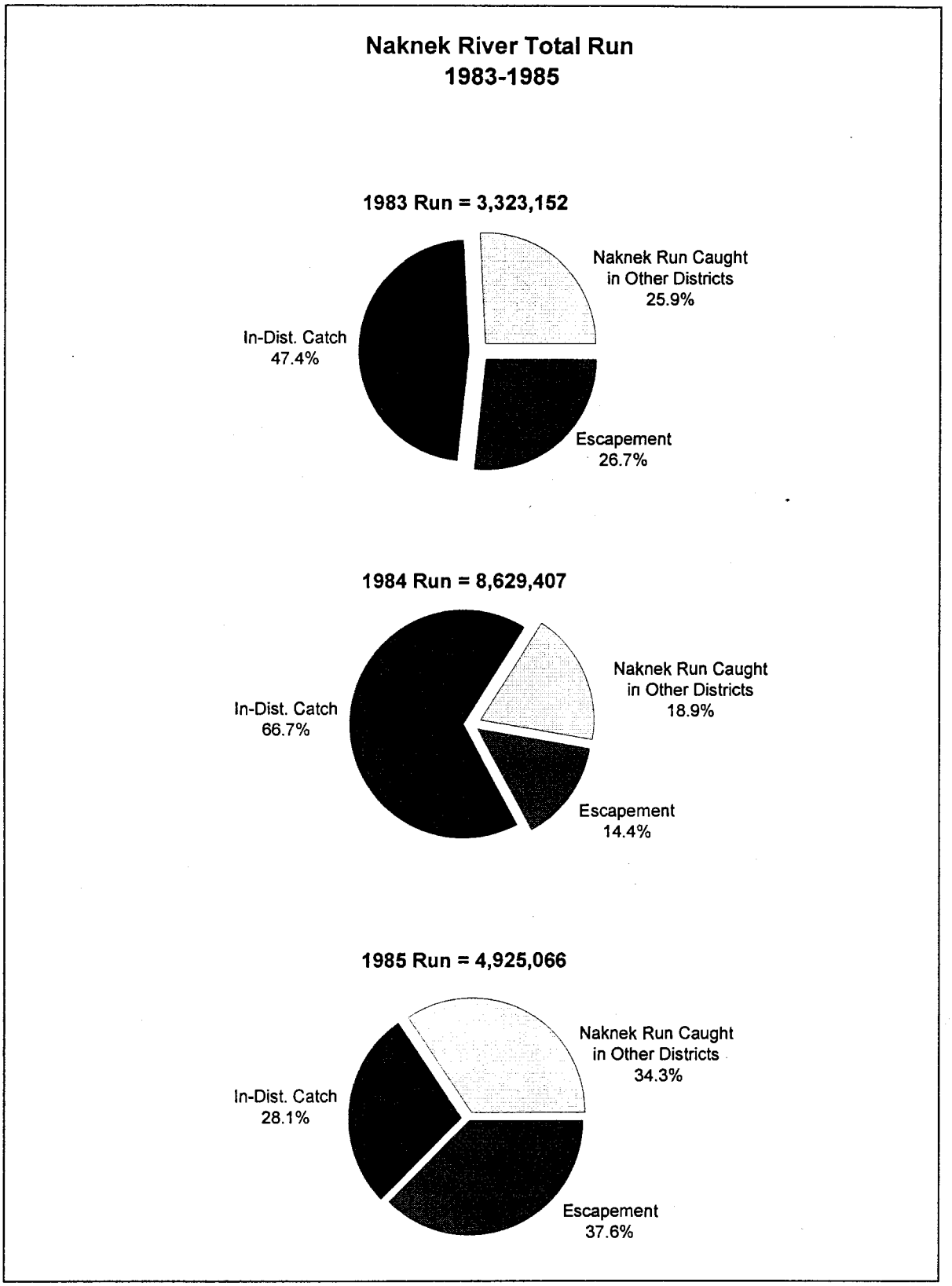

Figure 13. Estimated run of sockeye salmon to Naknek River in 1983 - 1985 and the percentage of run comprised of escapement, in district catch, and other district catch.

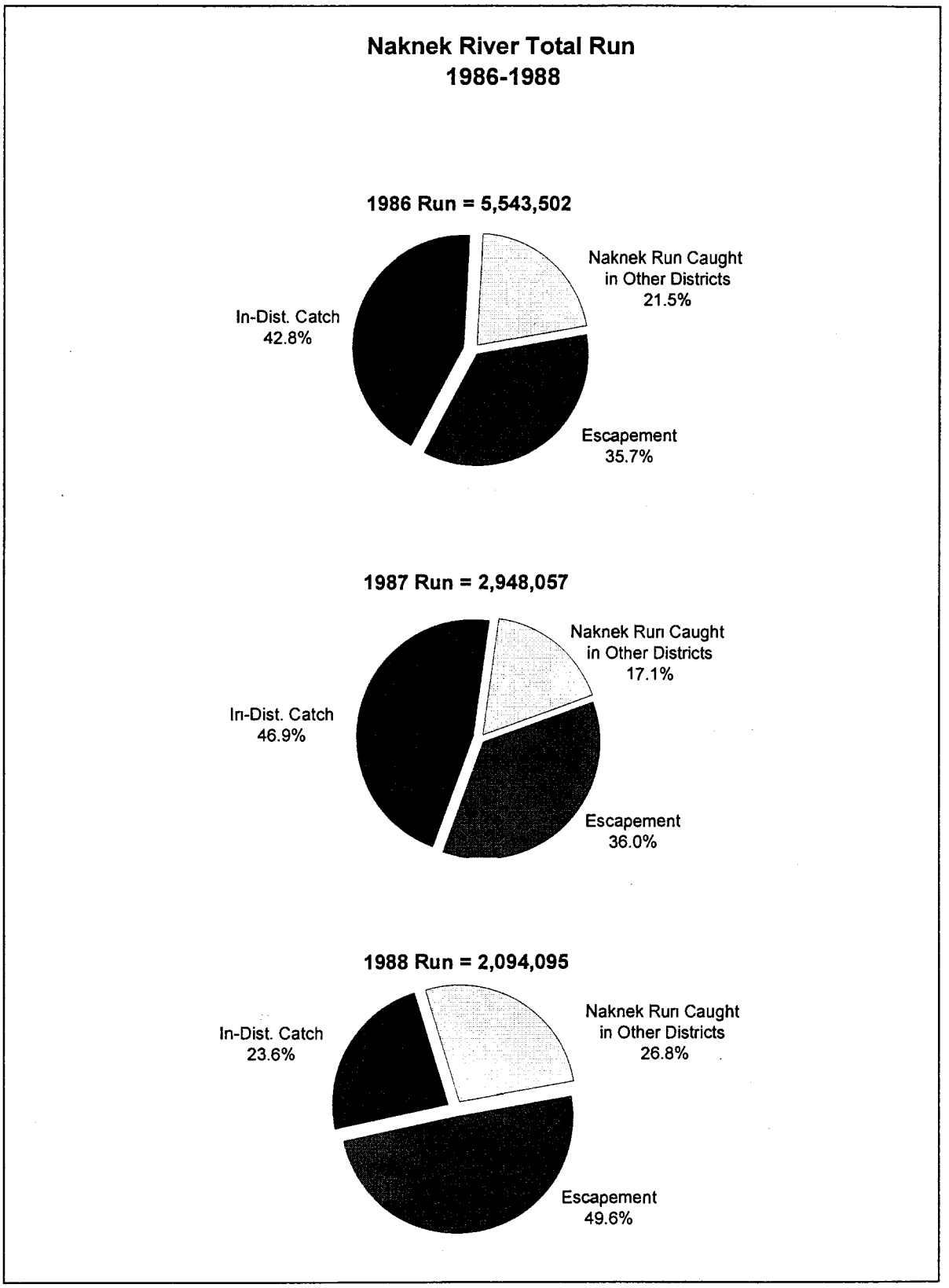

Figure 14. Estimated run of sockeye salmon to Naknek River in 1986 - 1988 and the percentage of run comprised of escapement, in district catch, and other district catch.

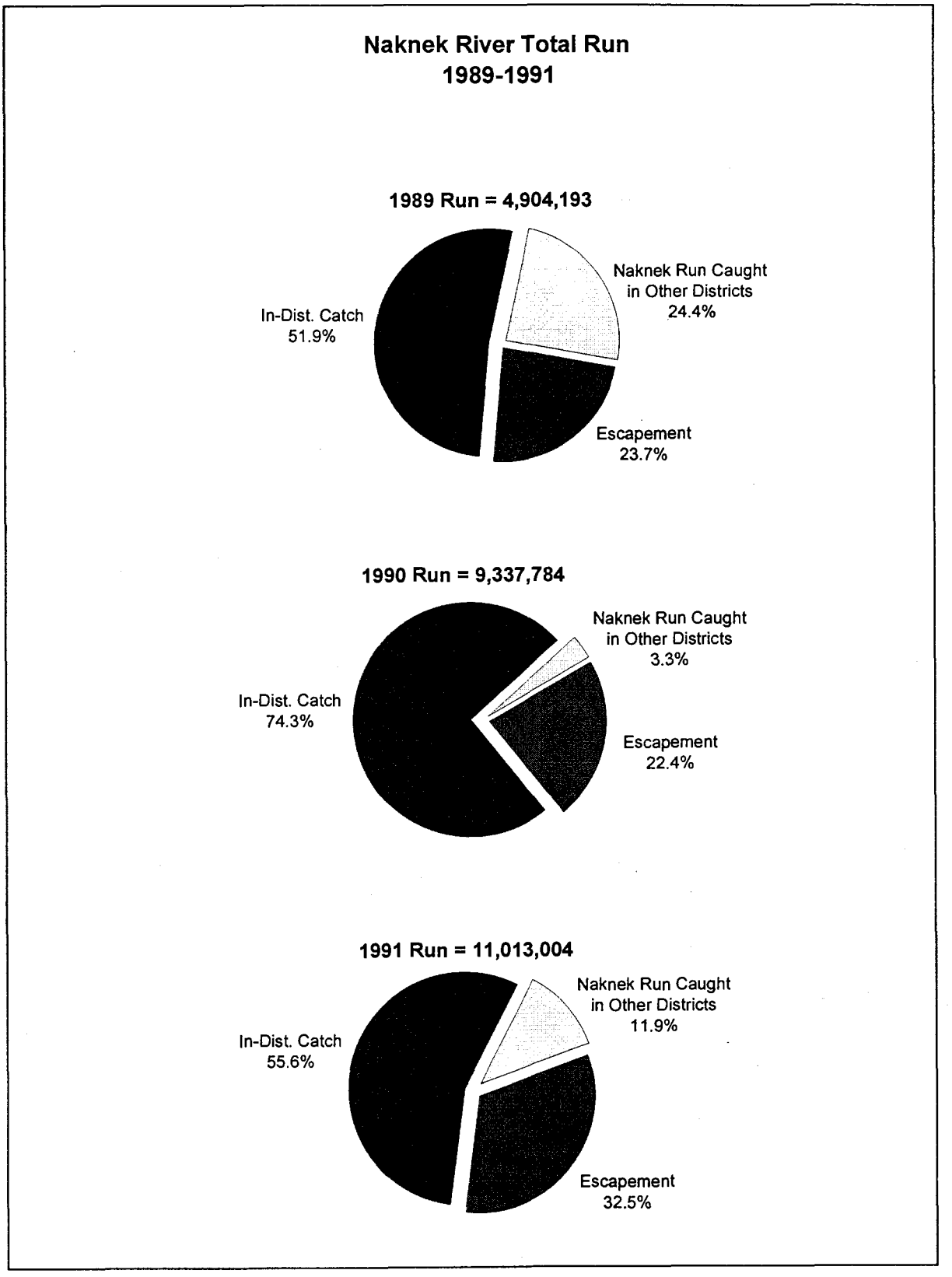

Figure 15. Estimated run of sockeye salmon to Naknek River in 1989 - 1991 and the percentage of run comprised of escapement, in district catch, and other district catch.

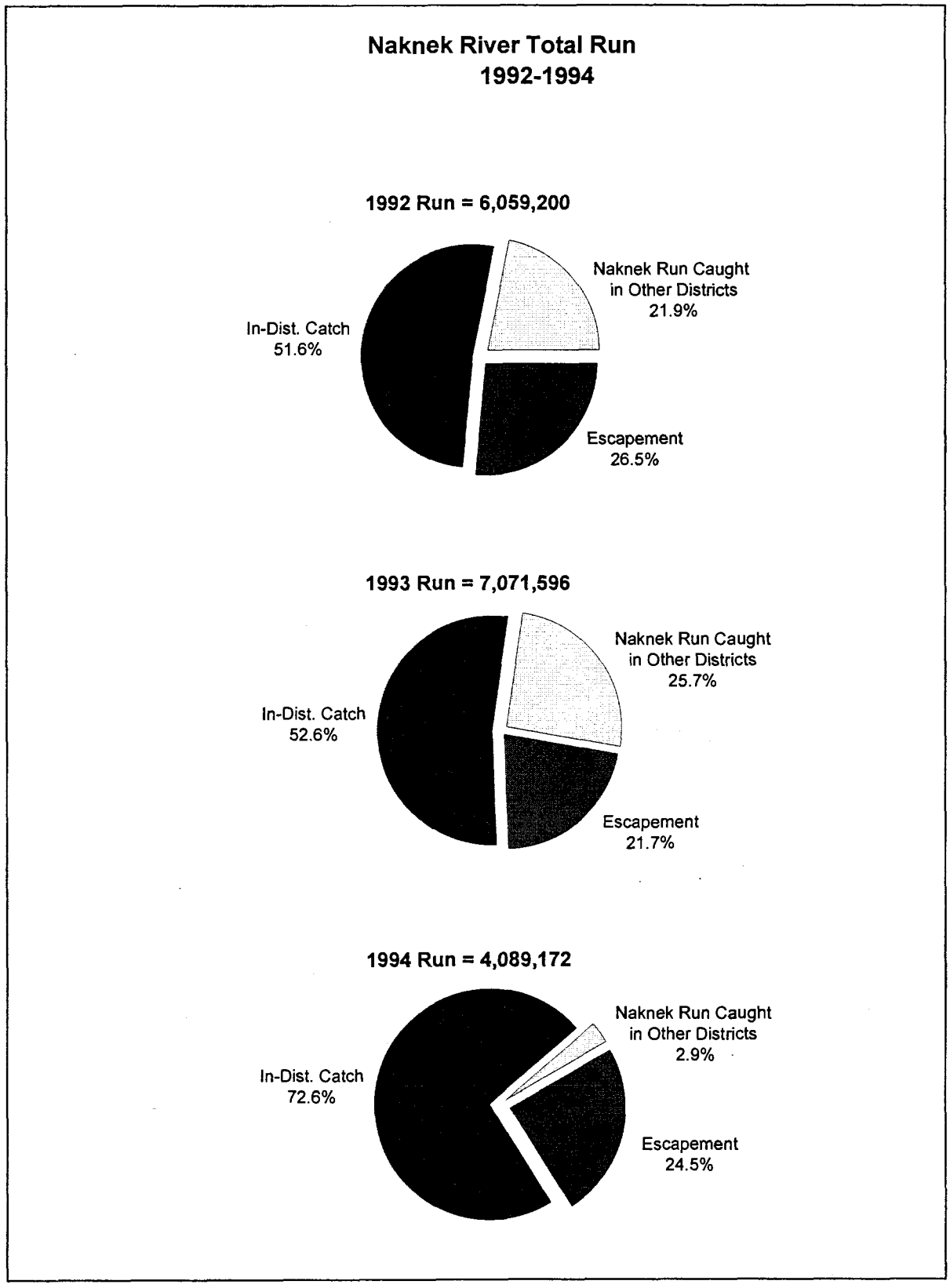

Figure 16. Estimated run of sockeye salmon to Naknek River in 1992 - 1994 and the percentage of run comprised of escapement, in district catch, and other district catch.

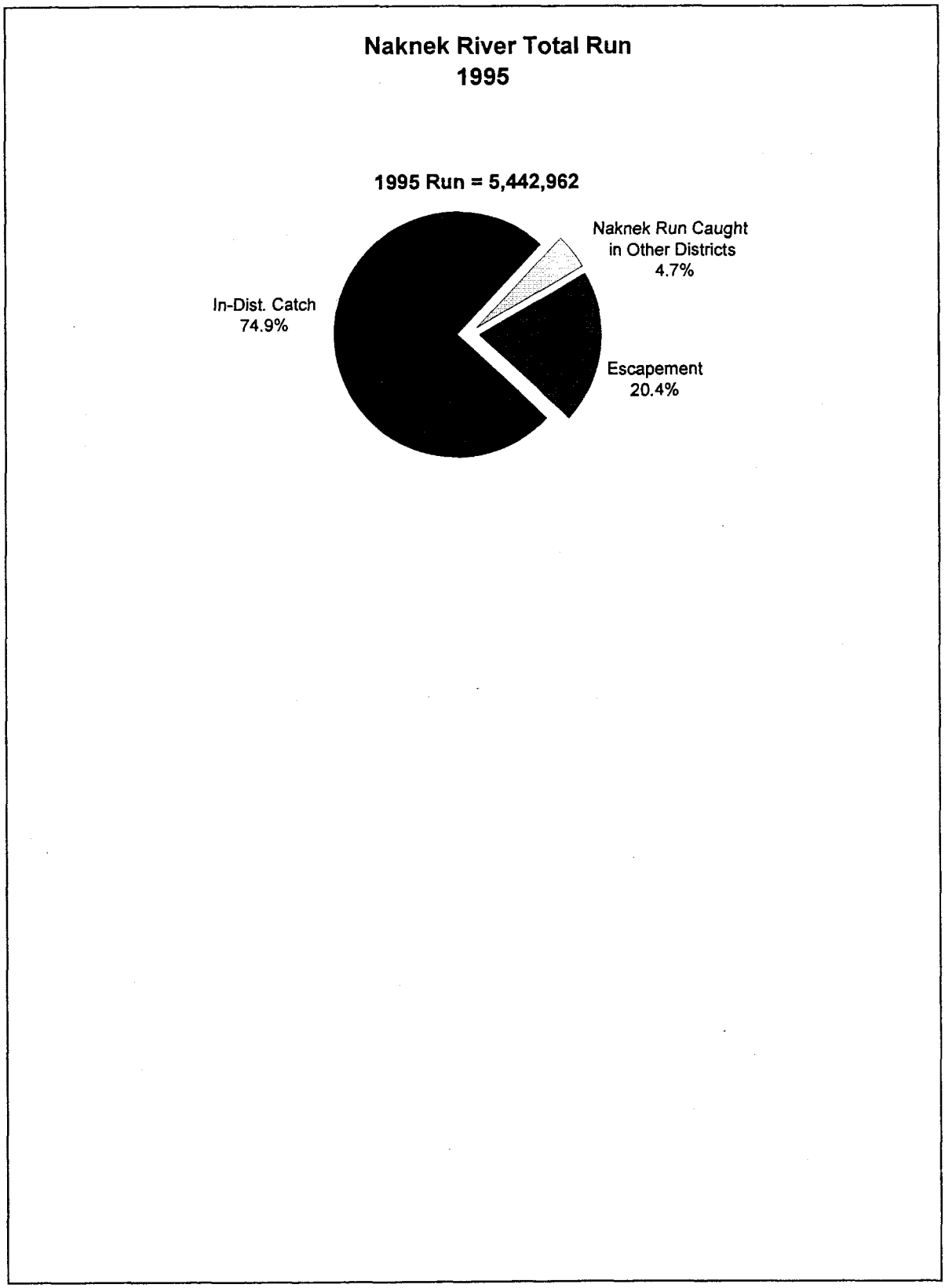

Figure 17. Estimated run of sockeye salmon to Naknek River in 1995 and the percentage of run comprised of escapement, in district catch, and other district catch.

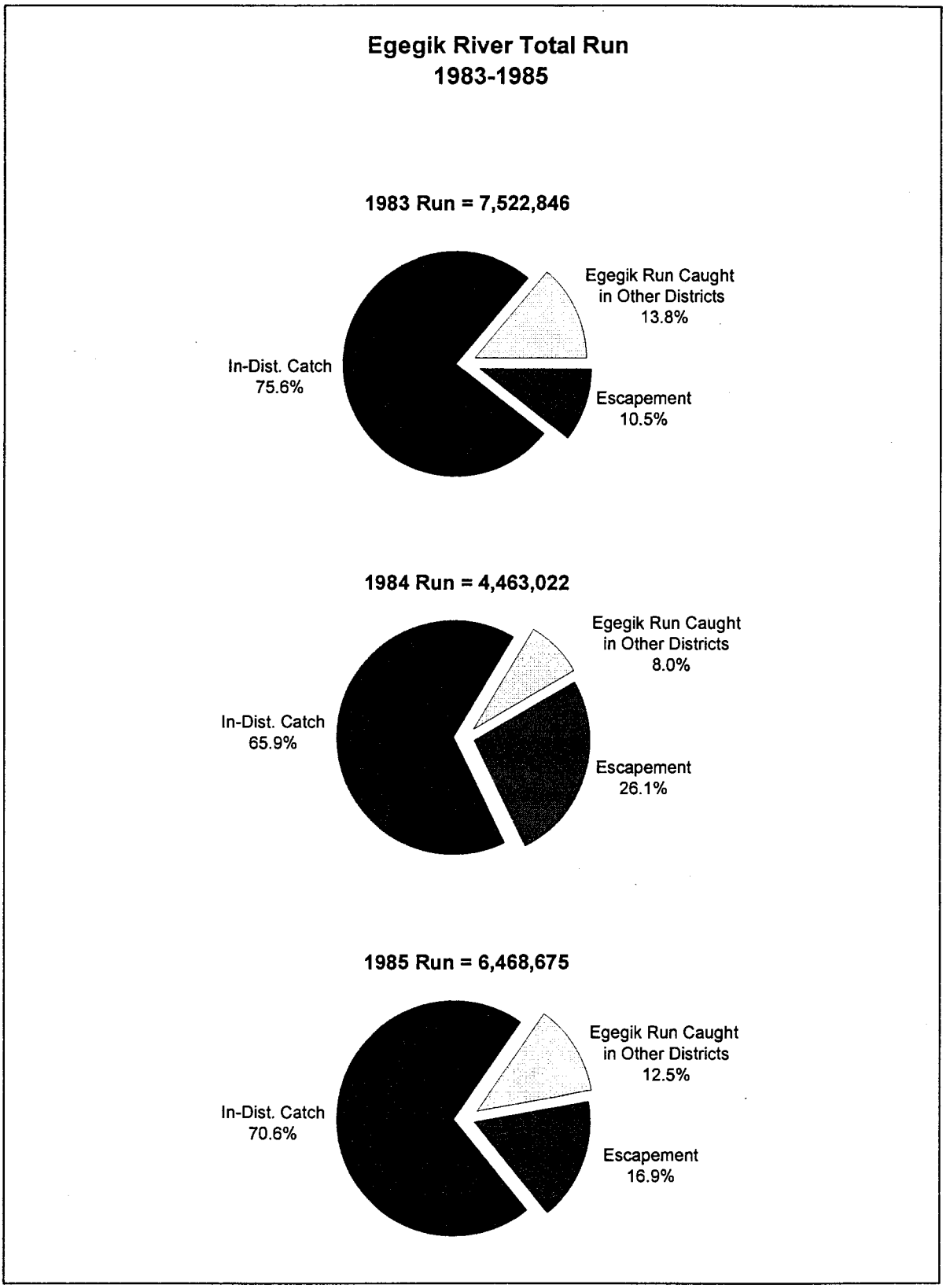

Figure 18. Estimated run of sockeye salmon to Egegik River in 1983 - 1985 and the percentage of run comprised of escapement, in district catch, and other district catch.

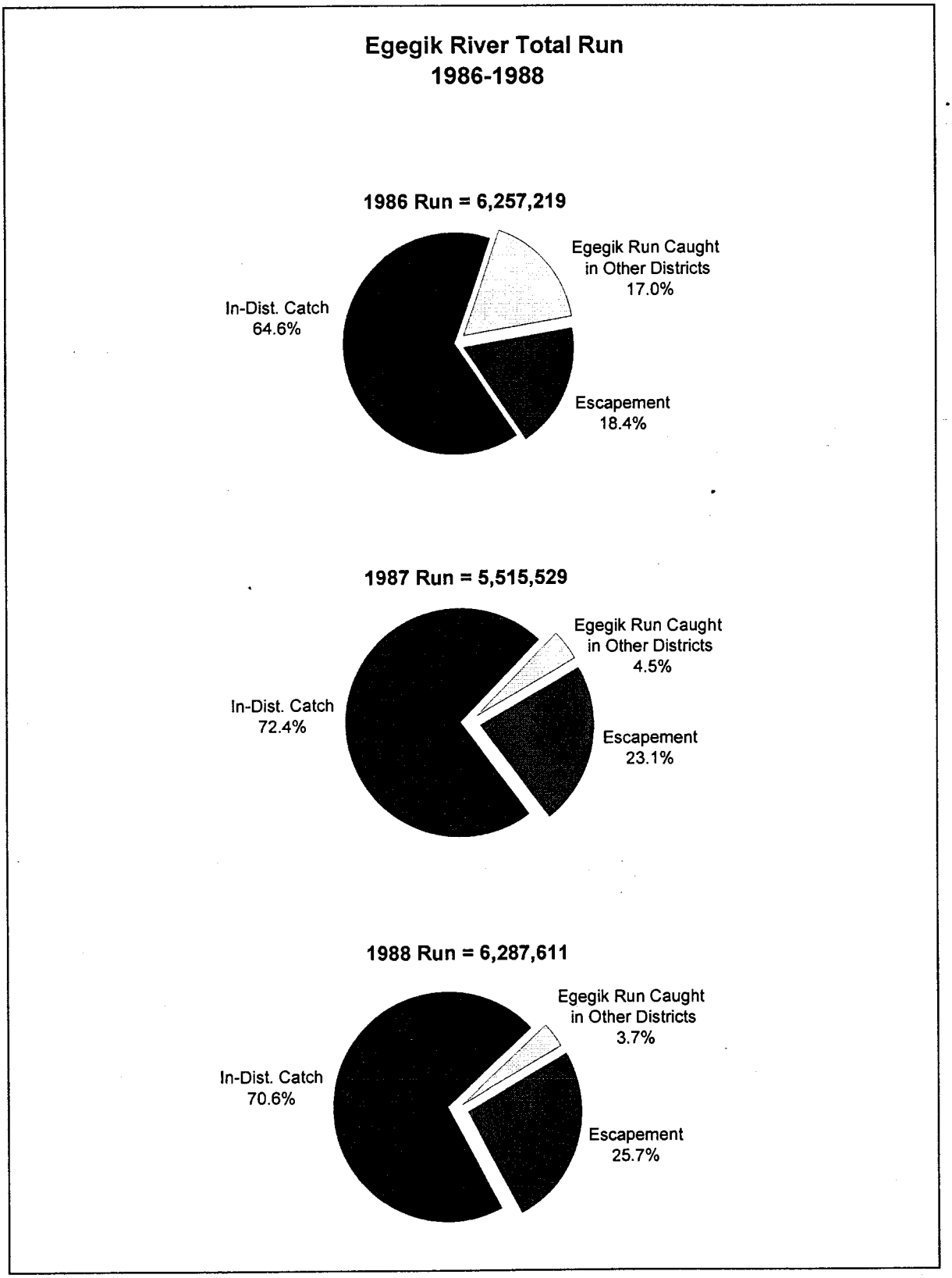

Figure 19. Estimated run of sockeye salmon to Egegik River in 1986 - 1988 and the percentage of run comprised of escapement, in district catch, and other district catch.

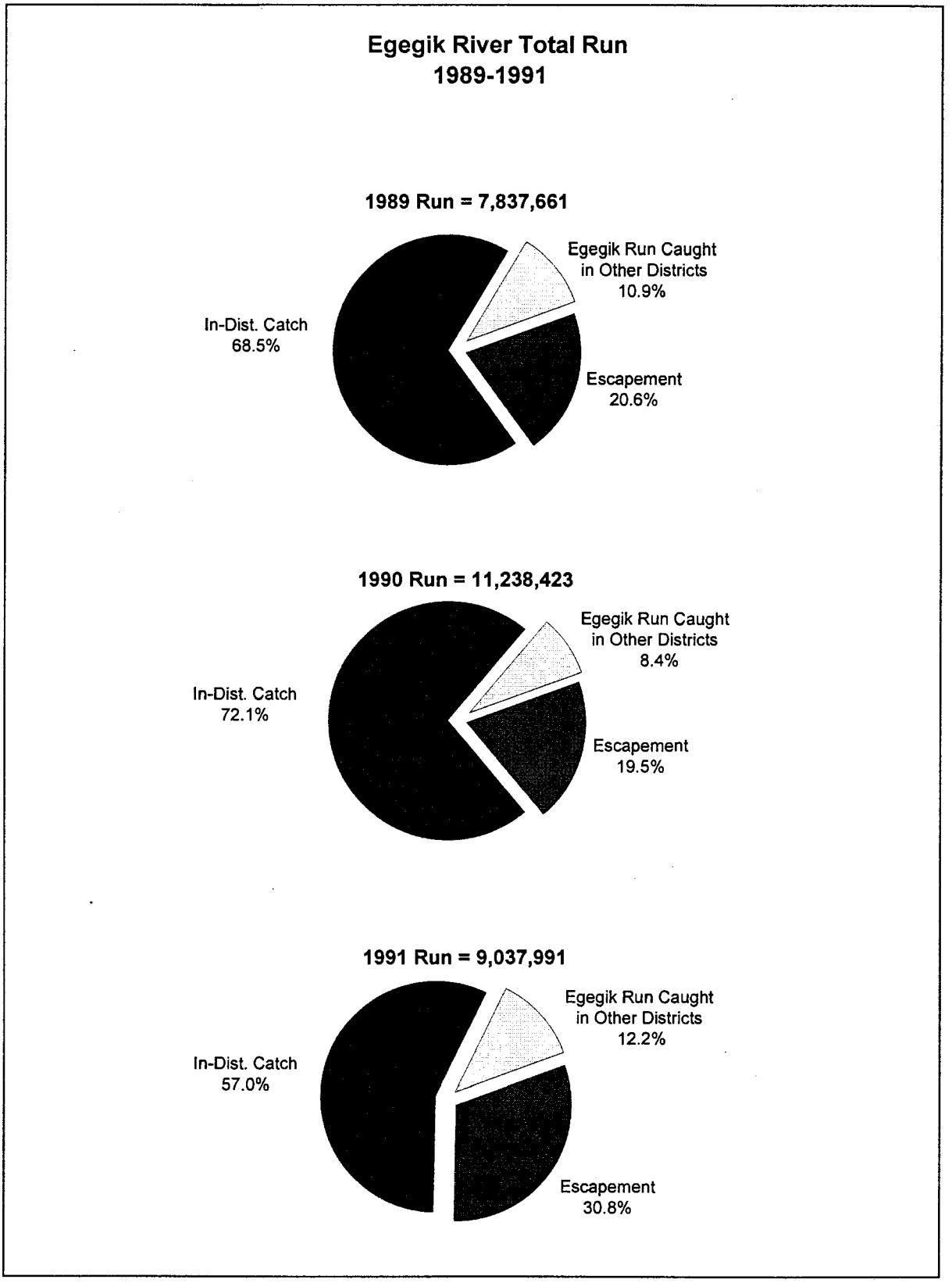

Figure 20. Estimated run of sockeye salmon to Egegik River in 1989 - 1991 and the percentage of run comprised of escapement, in district catch, and other district catch.

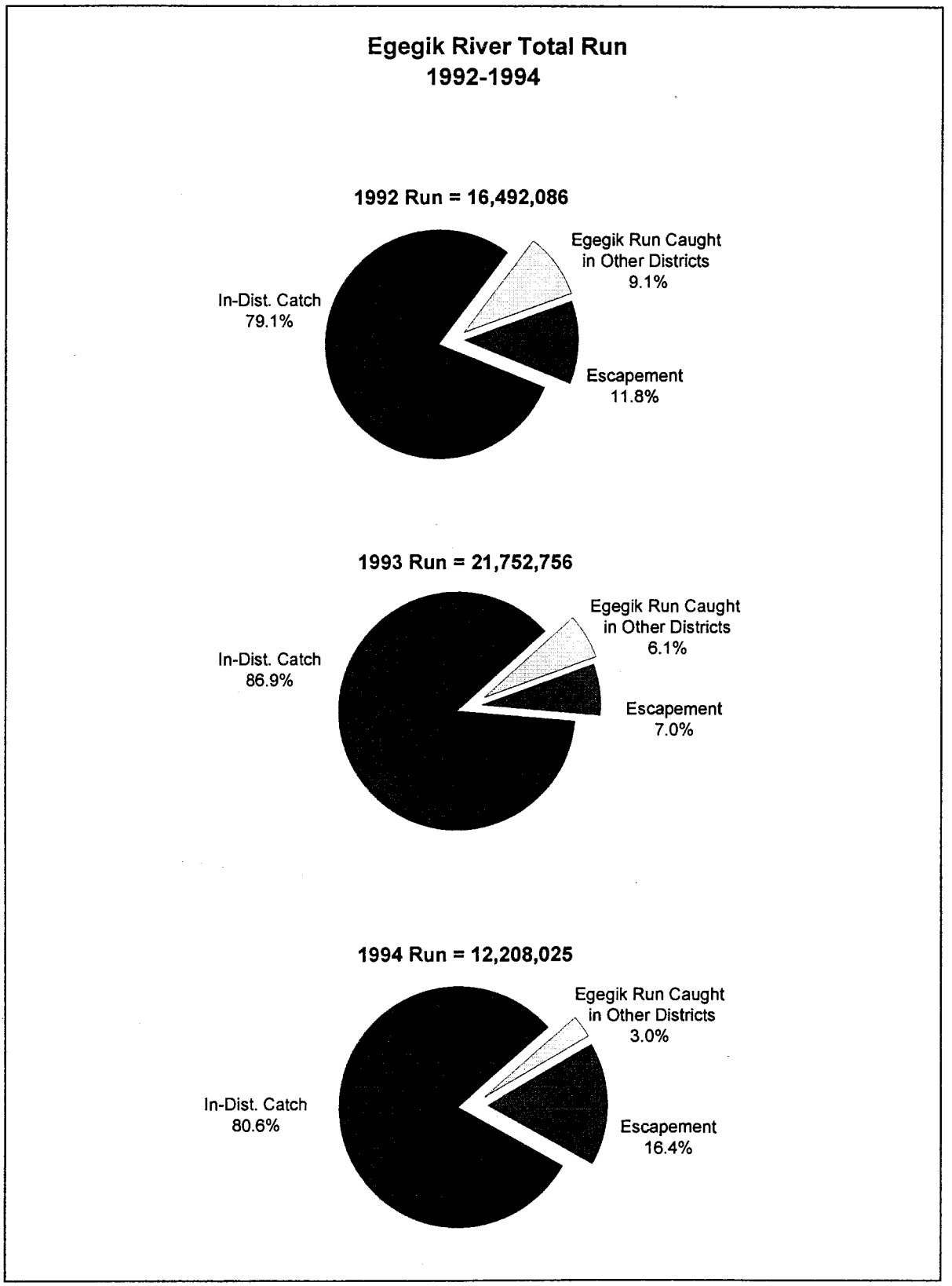

Figure 21. Estimated run of sockeye salmon to Egegik River in 1992 - 1994 and the percentage of run comprised of escapement, in district catch, and other district catch.

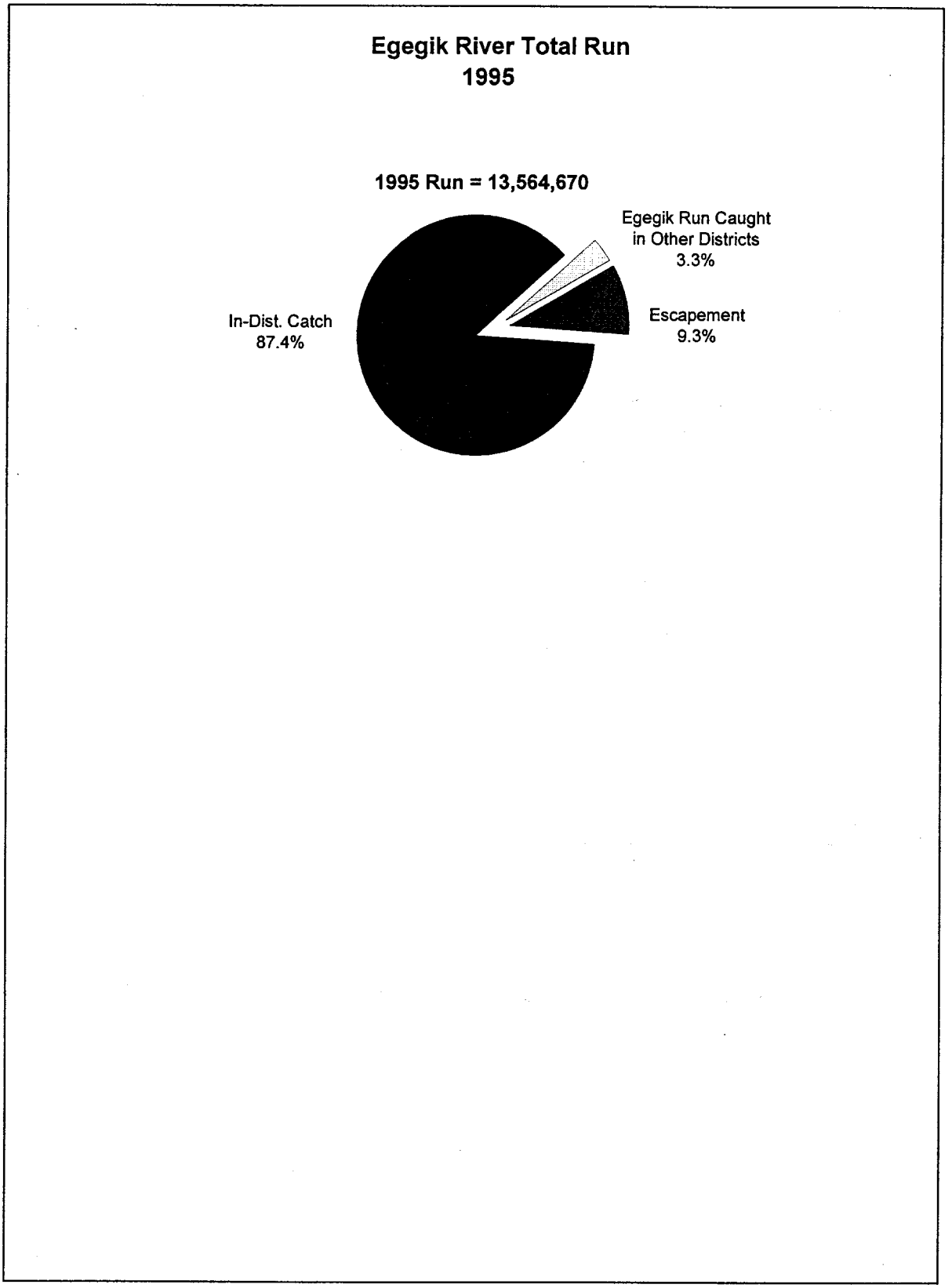

Figure 22. Estimated run of sockeye salmon to Egegik River in 1995 and the percentage of run comprised of escapement, in district catch, and other district catch.

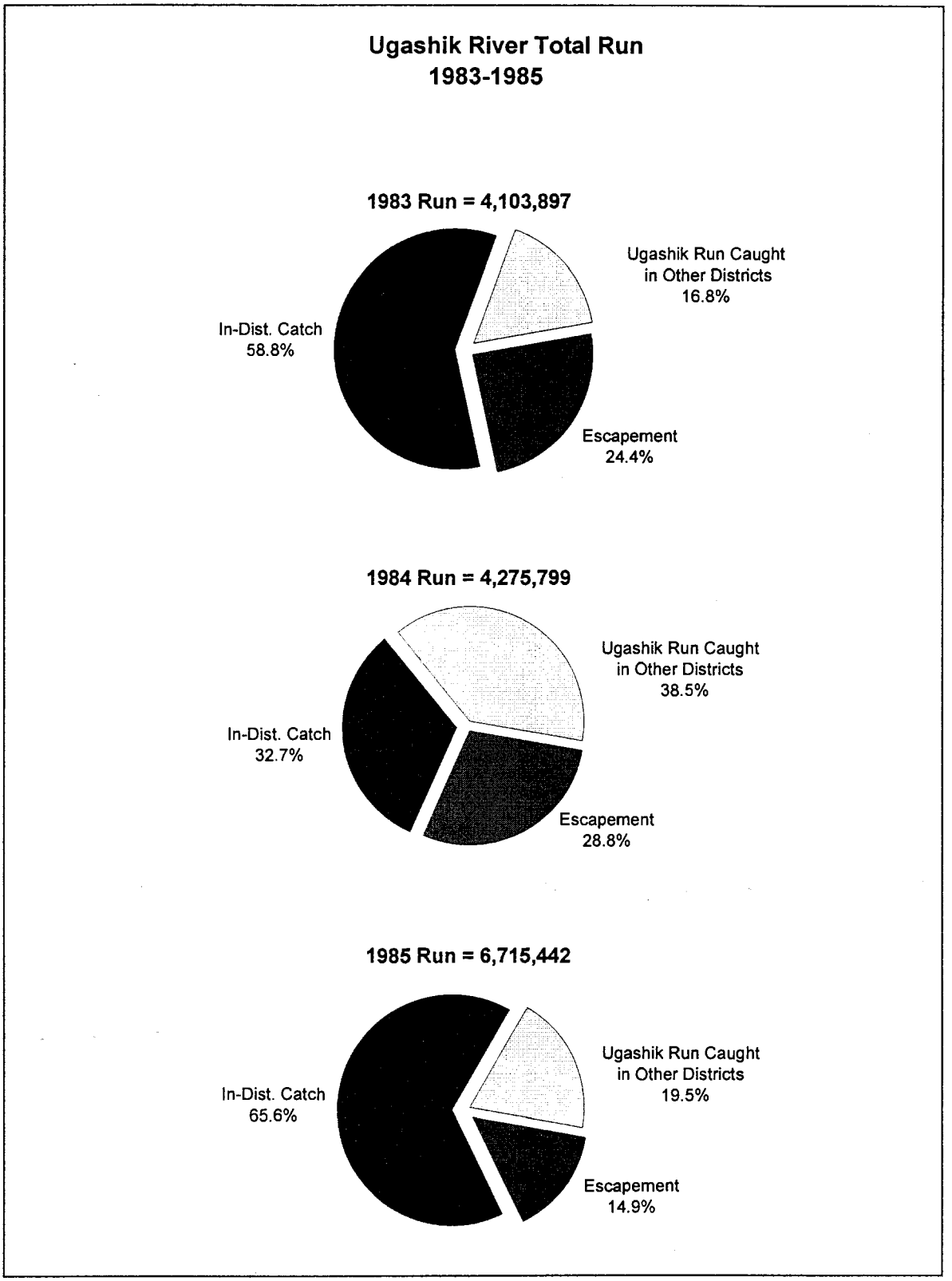

Figure 23. Estimated run of sockeye salmon to Ugashik River in 1983 - 1985 and the percentage of run comprised of escapement, in district catch, and other district catch.

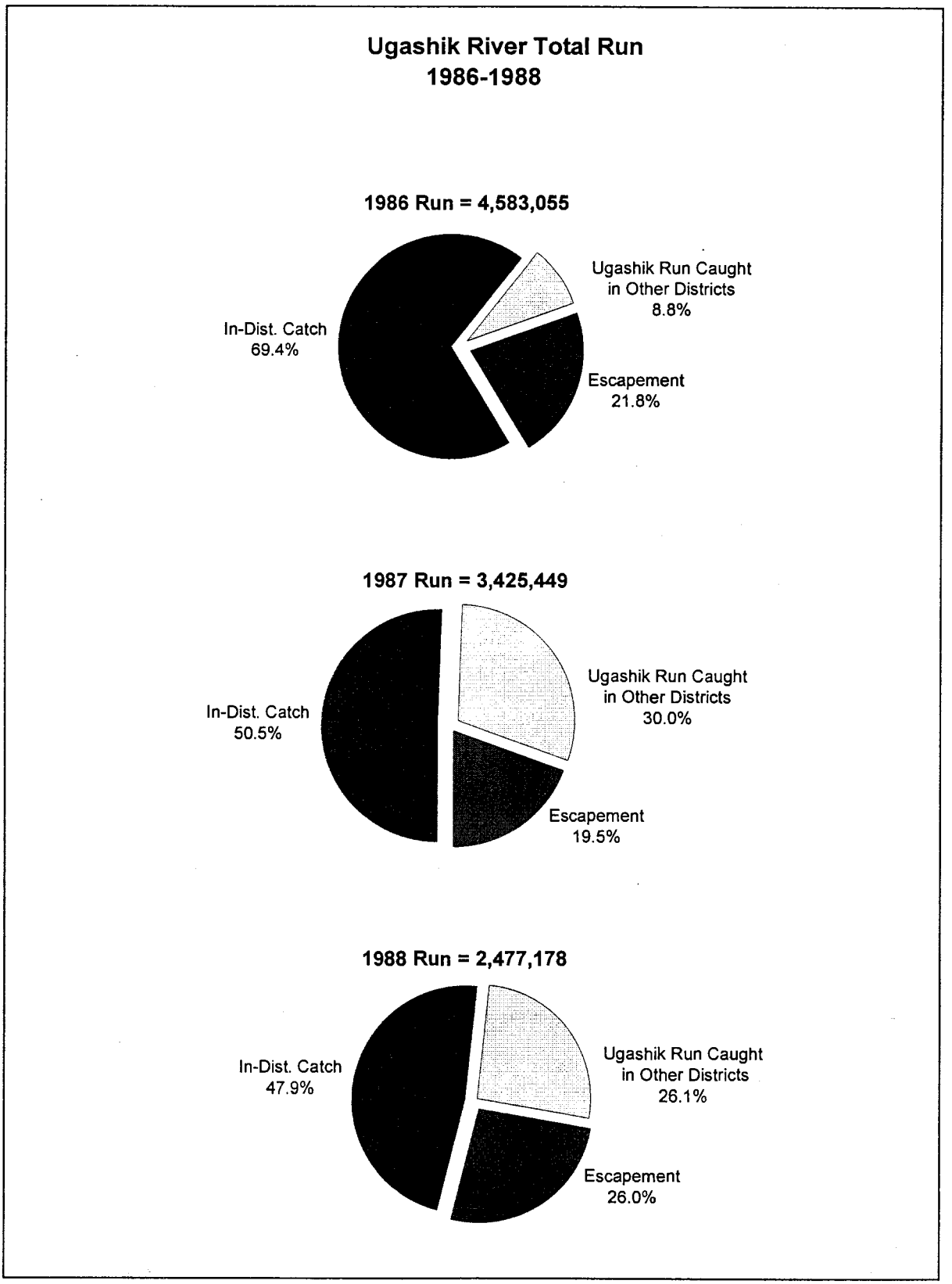

Figure 24. Estimated run of sockeye salmon to Ugashik River in 1986 - 1988 and the percentage of run comprised of escapement, in district catch, and other district catch.

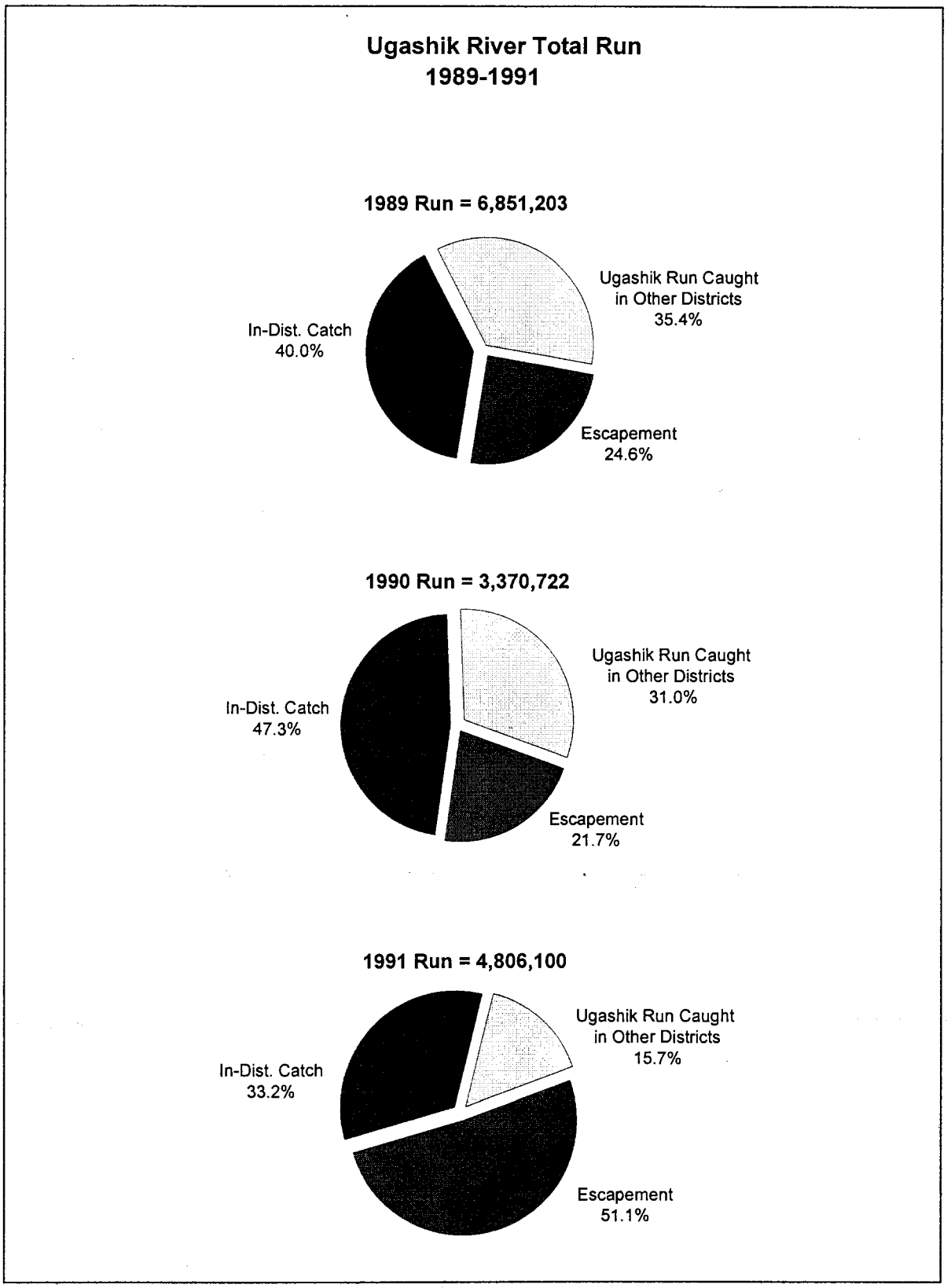

Figure 25. Estimated run of sockeye salmon to Ugashik River in 1989 - 1991 and the percentage of run comprised of escapement, in district catch, and other district catch.

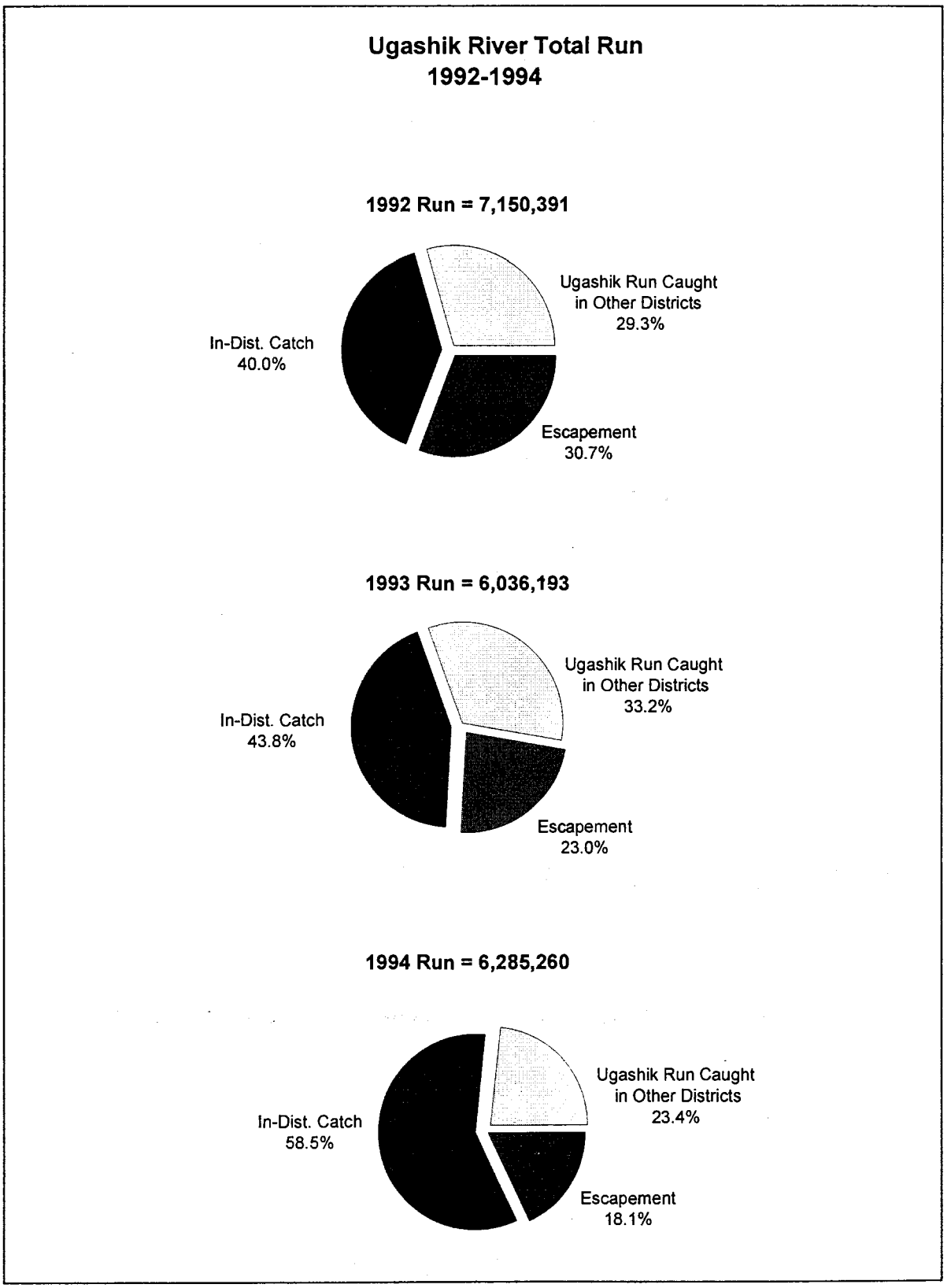

Figure 26. Estimated run of sockeye salmon to Ugashik River in 1992 - 1994 and the percentage of run comprised of escapement, in district catch, and other district catch.

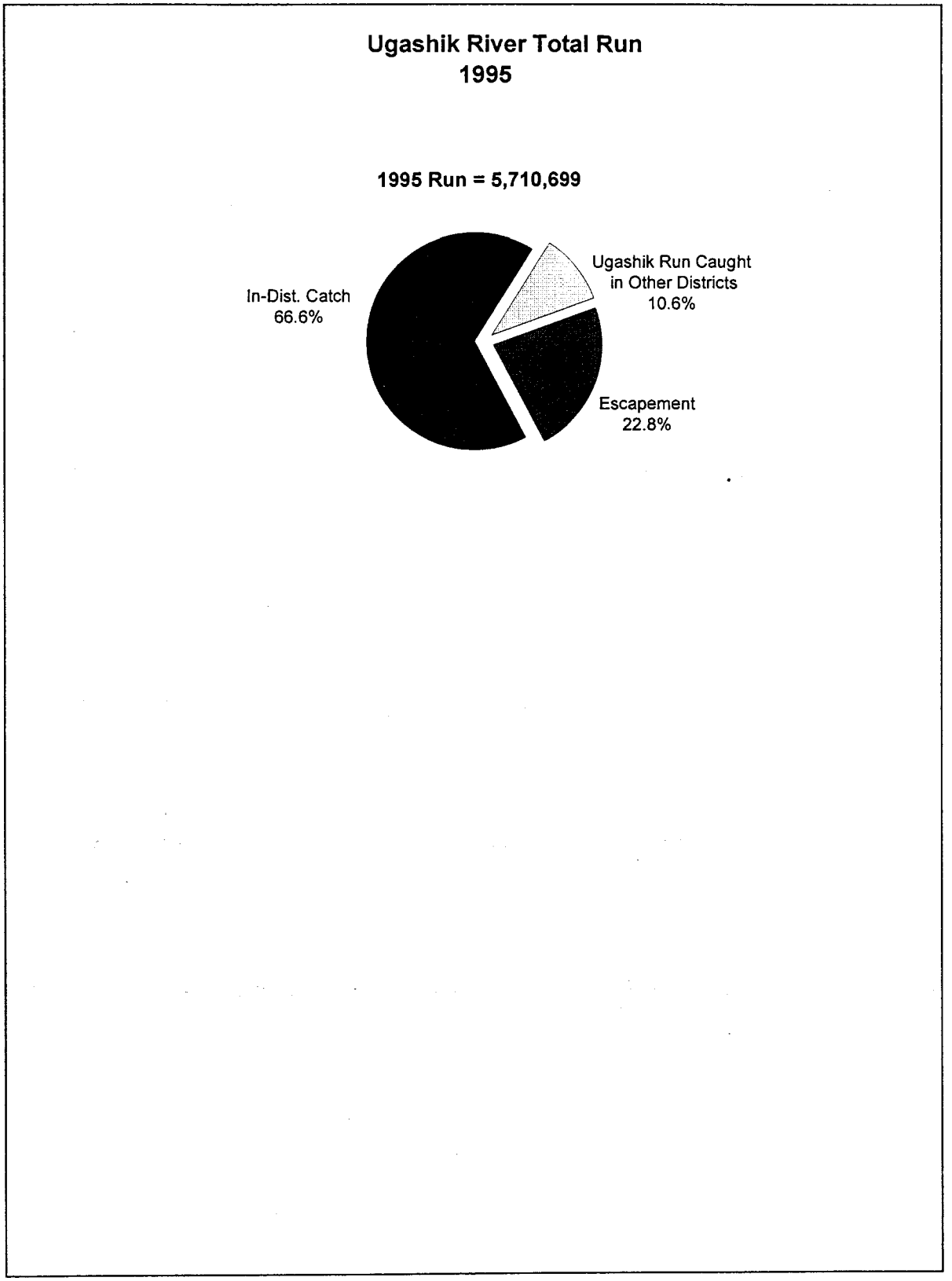

Figure 27. Estimated run of sockeye salmon to Ugashik River in 1995 and the percentage of run comprised of escapement, in district catch, and other district catch.

Appendix A: Scale Variables

Appendix A.1. Scale variables screened for linear discriminant function analysis of sockeye salmon, east side Bristol Bay, 1983 - 1995.

Variable Number	Variable Name	Zone
		First Freshwater Annular Zone
1	NC1FW	Number of circuli first freshwater
2	S1FW	Size (width) of first freshwater
3 (16)	C0-C2	Distance, scale focus (CO) to circulus 2 (C2)
4 (17)	C0-C4	Distance, scale focus to circulus 4
5 (18)	C0-C6	Distance, scale focus to circulus 6
6 (19)	C0-C8	Distance, scale focus to circulus 8
7 (20)	C2-C4	Distance, circulus 2 to circulus 4
8 (21)	C2-C6	Distance, circulus 2 to circulus 6
9 (22)	C2-C8	Distance, circulus 2 to circulus 8
10 (23)	C4-C6	Distance, circulus 4 to circulus 6
11 (24)	C4-C8	Distance, circulus 4 to circulus 8
12 (25)	C(NC-4)-E1FW	Distance, circulus (number circuli first freshwater minus 2) to end first freshwater
13 (26)	C(NC-2)-E1FW	Distance, circulus (number circuli first freshwater minus 4) to end first freshwater
14	C2-E1FW	Distance, circulus 2 to end first freshwater
15	C4-E1FW	Distance, circulus 4 to end first freshwater
16 thru	C0-C2/S1FW . . .	Relative widths, (variables 3-13)/S1FW
26	C(NC-2)-E1FW/S1FW	
27	S1FW/NC1FW	Average interval between circuli in first freshwater
28	NC 1ST 3/4	Number of circuli in first 3/4 of first freshwater
29	MAX DIST	Maximum distance between 2 consecutive circuli in first freshwater
30	MAX DIST/S1FW	Relative width, (variable 29)/S1FW
		Second Freshwater Annular Zone
31	NC2FW	Number of circuli second freshwater
32	S2FW	Size (width) of second freshwater
33 (46)	E1FW-C2	Distance, end of first freshwater to circulus 2 (C2) in second freshwater
34 (47)	E1FW-C4	Distance, end of first freshwater to circulus 4
35 (48)	E1FW-C6	Distance, end of first freshwater to circulus 6
36 (49)	E1FW-C8	Distance, end of first freshwater to circulus 8
37 (50)	C2-C4	Distance, circulus 2 to circulus 4
38 (51)	C2-C6	Distance, circulus 2 to circulus 6
39 (52)	C2-C8	Distance, circulus 2 to circulus 8
40 (53)	C4-C6	Distance, circulus 4 to circulus 6
41 (54)	C4-C8	Distance, circulus 4 to circulus 8
42 (55)	C(NC-4)-E2FW	Distance, circulus (number circuli second freshwater minus 4) to end second freshwater
43 (56)	C(NC-2)-E2FW	Distance, circulus (number circuli second freshwater minus 2) to end second freshwater
44	C2-E2FW	Distance, circulus 2 to end second freshwater
45	C4-E2FW	Distance, circulus 4 to end second freshwater
46 thru	E1FW-C2/S2FW . . .	Relative widths, (variables 33-43)/S2FW
56	C(NC-2)-E2FW/S2FW	

-Continued-

Appendix A.1. (p. 2 of 2).

Variable Number	Variable Name	Zone
57	S2FW/NC2FW	Average interval between circuli in second freshwater
58	NC 1ST 3/4	Number of circuli in first 3/4 of second freshwater
59	MAX DIST	Maximum distance between 2 consecutive circuli in second freshwater
60	MAX DIST/S2FW	Relative width, (variable 59)/S2FW
		Plus Growth Zone
61	NCPG	Number of circuli in plus growth
62	SPGZ	Size (width) plus growth zone
		Freshwater and Plus Growth Zone
63	NC1FW + NC2FW	Total number of circuli first and second freshwater
64	S1FW + S2FW	Total size (width) of first and second freshwater
65	NC1FW+NC2FW+NCPG	Total number of circuli first and second freshwater and plus growth
66	S1FW+S2FW+SPGZ	Total size (width) first and second freshwater and plus growth
67	S1FW/VAR 66	Relative width, (variable 2)/S1FW+S2FW+SPGZ
68	SPGZ/VAR 66	Relative width, (variable 62)/S1FW+S2FW+SPGZ
69	S2FW/VAR 66	Relative width, (variable 32)/S1FW+S2FW+SPGZ
		First Marine Annular Zone
70	NC1OZ	Number of circuli in first ocean zone
71	S1OZ	Size (width) first ocean zone
72 (90)	EFW-C3	Distance, end of freshwater growth to circulus 3
73 (91)	EFW-C6	Distance, end of freshwater growth to circulus 6
74 (92)	EFW-C9	Distance, end of freshwater growth to circulus 9
75 (93)	EFW-C12	Distance, end of freshwater growth to circulus 12
76 (94)	EFW-C15	Distance, end of freshwater growth to circulus 15
77 (95)	C3-C6	Distance, circulus 3 to circulus 6
78 (96)	C3-C9	Distance, circulus 3 to circulus 9
79 (97)	C3-C12	Distance, circulus 3 to circulus 12
80 (98)	C3-C15	Distance, circulus 3 to circulus 15
81 (99)	C6-C9	Distance, circulus 6 to circulus 9
82 (100)	C6-C12	Distance, circulus 6 to circulus 12
83 (101)	C6-C15	Distance, circulus 6 to circulus 15
84 (102)	C9-C15	Distance, circulus 9 to circulus 15
85 (103)	C(NC-6)-E1OZ	Distance, circulus (number circuli first ocean minus 6) to end first ocean
86 (104)	C(NC-3)-E1OZ	Distance, circulus (number circuli first ocean minus 3) to end first ocean
87	C3-E1OZ	Distance, circulus 3 to end of first ocean
88	C9-E1OZ	Distance, circulus 9 to end of first ocean
89	C15-E1OZ	Distance, circulus 15 to end of first ocean
90 thru	EFW-C3/S1OZ . . .	Relative widths, (variables 72-86)/S1OZ
104	C(NC-3)-E1OZ/S1OZ	
105	S1OZ/NC1OZ	Average interval between circuli in first ocean
106	NC 1ST 1/2	Number of circuli in first 1/2 of first ocean
107	MAX DIST	Maximum distance between 2 consecutive circuli in first ocean
108	MAX DIST/S1OZ	Relative width, (variable 107)/S1OZ
		Second Marine Annular Zone
109	S2OZ	Size (width) of second ocean zone

Appendix B: Stock Identification Models, 1983 - 1995

Appendix B.1. Stock identification models developed for age-1.2 and -2.2 sockeye salmon sampled from Kvichak, Naknek, Egegik, and Ugashik Rivers, 1983.

Actual Group Of Origin	Sample Size	AGE-1.2 Classified Group of Origin (percent)			
		Kvichak	Naknek	Egegik	Ugashik
Kvichak	200	81.5	7.5	0.0	11.0
Naknek	200	10.0	50.5	18.5	21.0
Egegik	92	0.0	8.7	83.7	7.6
Ugashik	200	8.5	20.0	5.0	66.5

Mean classification accuracy = 70.5%

Variables used: 27,87,78,62,11,104,14,25,105,75

Actual Group Of Origin	Sample Size	AGE-2.2 Classified Group of Origin (percent)			
		Kvichak	Naknek	Egegik	Ugashik
Kvichak	96	72.9	11.5	4.2	11.5
Naknek	200	14.5	62.0	7.0	16.5
Egegik	200	13.5	6.0	77.5	3.0
Ugashik	87	8.0	12.6	2.3	77.0

Mean classification accuracy = 72.4%

Variables used: 69,45,18,10,34,14,8,28,31,27,104

Appendix B.2. Stock identification models developed for age-2.2 sockeye salmon sampled from Kvichak, Naknek, Egegik, and Ugashik Rivers, 1984.

Actual Group Of Origin	Sample Size	AGE-2.2 Classified Group of Origin (percent)			
		Kvichak	Naknek	Egegik	Ugashik
Kvichak	199	68.3	18.1	2.0	11.6
Naknek	192	19.2	65.1	9.4	6.3
Egegik	190	4.2	10.0	81.1	4.7
Ugashik	192	11.5	6.8	2.1	79.7

Mean classification accuracy = 73.5%

Variables used: 2,21,57,45,31,73,71,66,53,25

Appendix B.3. Stock identification models developed for age-1.3 and -2.2 sockeye salmon sampled from Kvichak, Naknek, Egegik, and Ugashik Rivers, 1985.

Actual Group Of Origin	Sample Size	AGE-1.3 Classified Group of Origin (percent)			
		Kvichak	Naknek	Egegik	Ugashik
Kvichak	199	84.9	9.5	1.0	4.5
Naknek	200	14.5	63.5	9.5	12.5
Egegik	200	1.5	6.5	89.0	3.0
Ugashik	200	5.5	10.0	1.0	83.5

Mean classification accuracy = 80.2%

Variables used: 2,62,73,70,19,6,105

Actual Group Of Origin	Sample Size	AGE-2.2 Classified Group of Origin (percent)			
		Kvichak	Naknek	Egegik	Ugashik
Kvichak	200	89.5	3.0	4.5	3.0
Naknek	200	6.0	76.0	6.5	11.5
Egegik	200	5.0	7.5	78.0	9.5
Ugashik	200	2.5	14.0	4.5	79.0

Mean classification accuracy = 80.6%

Variables used: 67,18,72,23,58,47,103,21,10,69

Appendix B.4. Stock identification models developed for age-1.3 and -2.2 sockeye salmon sampled from Kvichak, Naknek, Egegik, and Ugashik Rivers, 1986.

Actual Group Of Origin	Sample Size	AGE-1.3 Classified Group of Origin (percent)		
		Kvi-Nak	Egegik	Ugashik
Kvi-Nak	168	55.4	17.9	26.8
Egegik	168	16.1	71.4	12.5
Ugashik	168	19.0	7.1	73.8

Mean classification accuracy = 66.9%

Variables used: 14,62,65,15

Actual Group Of Origin	Sample Size	AGE-2.2 Classified Group of Origin (percent)		
		Kvi-Nak	Egegik	Ugashik
Kvi-Nak	196	76.5	8.7	14.8
Egegik	200	12.0	87.0	1.0
Ugashik	200	19.0	0.0	81.0

Mean classification accuracy = 81.5%

Variables used: 64,5,58,69,18,66,68

Appendix B.5. Stock identification models developed for age-1.2, -1.3, and -2.3 sockeye salmon sampled from Kvichak, Naknek, Egegik, and Ugashik Rivers, 1987.

Actual Group Of Origin	Sample Size	AGE-1.2 Classified Group of Origin (percent)			
		Kvichak	Naknek	Egegik	Ugashik
Kvichak	199	88.5	5.0	0.0	6.5
Naknek	125	17.6	53.6	12.8	16.0
Egegik	200	0.0	5.5	86.0	8.5
Ugashik	200	6.5	23.5	9.5	60.5

Mean classification accuracy = 72.2%
Variables used: 28,5,61,76,8,106,1,85,12,10

Actual Group Of Origin	Sample Size	AGE-1.3 Classified Group of Origin (percent)	
		Kvi-Nak-Uga	Egegik
Kvi-Nak-Uga	211	94.5	5.5
Egegik	200	3.5	96.5

Mean classification accuracy = 95.4%
Variables used: 14,89

Actual Group Of Origin	Sample Size	AGE-2.3 Classified Group of Origin (percent)		
		Naknek	Egegik	Ugashik
Naknek	200	65.5	15.0	19.5
Egegik	200	19.0	81.0	0.0
Ugashik	200	14.0	3.5	82.5

Mean classification accuracy = 76.3%
Variables used: 66,57,21,55,31,14,61,30,1,71,108,77,94

Appendix B.6. Stock identification models developed for age-1.3 and -2.2 sockeye salmon sampled from Kvichak, Naknek, Egegik, and Ugashik Rivers, 1988.

Actual Group Of Origin	Sample Size	AGE-1.3 Classified Group of Origin (percent)			
		Kvichak	Naknek	Egegik	Ugashik
Kvichak	200	75.5	13.0	0.0	11.5
Naknek	200	19.2	60.1	1.5	19.2
Egegik	200	0.0	0.0	87.5	12.5
Ugashik	200	7.0	15.5	6.5	71.0

Mean classification accuracy = 73.5%

Variables used: 2,19,6,17,61,15,18,108,99,88,78

Actual Group Of Origin	Sample Size	AGE-2.2 Classified Group of Origin (percent)			
		Kvichak	Naknek	Egegik	Ugashik
Kvichak	200	73.0	10.5	1.5	15.0
Naknek	198	12.1	66.7	8.1	13.1
Egegik	200	12.5	8.5	74.0	5.0
Ugashik	200	10.5	8.0	1.5	80.0

Mean classification accuracy = 73.4%

Variables used: 2,31,5,35,18,23

Appendix B.7. Stock identification models developed for age-2.2 sockeye salmon sampled from Kvichak, Naknek, Egegik, and Ugashik Rivers, 1989.

Actual Group Of Origin	Sample Size	AGE-2.2 Classified Group of Origin (percent)			
		Kvichak	Naknek	Egegik	Ugashik
Kvichak	200	91.5	2.5	1.5	4.5
Naknek	200	5.5	67.5	15.0	12.0
Egegik	200	2.0	27.5	68.0	2.5
Ugashik	200	6.5	13.0	4.5	76.0

Mean classification accuracy = 75.7%

Variables used: 65,64,27,71,7,35,67,20,32,25

Appendix B.8. Stock identification models developed for age-2.2 and -2.3 sockeye salmon sampled from Kvichak, Naknek, Egegik, and Ugashik Rivers, 1990.

Actual Group Of Origin	Sample Size	AGE-2.2 Classified Group of Origin (percent)			
		Kvichak	Naknek	Egegik	Ugashik
Kvichak	197	87.3	7.1	0.0	5.6
Naknek	197	9.6	60.9	15.7	13.7
Egegik	200	1.0	14.5	76.5	8.0
Ugashik	199	7.0	13.1	4.5	75.4

Mean classification accuracy = 75.0%

Variables used: 63,8,57,35,71,51,27,66,72,38,23

Actual Group Of Origin	Sample Size	AGE-2.3 Classified Group of Origin (percent)		
		Kvichak	Naknek-Egegik	Ugashik
Kvichak	108	84.3	6.5	9.3
Naknek-Egegik	400	3.2	83.5	13.2
Ugashik	163	4.9	12.9	82.2

Mean classification accuracy = 83.3%

Variables used: 65,27,67,72,25,12,32,88,2,48

Appendix B.9. Stock identification models developed for age-1.3 and -2.2 sockeye salmon sampled from Kvichak, Naknek, Egegik, and Ugashik Rivers, 1991.

Actual Group Of Origin	Sample Size	AGE-1.3 Classified Group of Origin (percent)	
		Kvi-Nak-Uga	Egegik
Kvi-Nak-Uga	299	95.0	5.0
Egegik	200	5.5	94.5

Mean classification accuracy = 94.7%

Variables used: 15,91,18,11,28

Actual Group Of Origin	Sample Size	AGE-2.2 Classified Group of Origin (percent)		
		Kvi-Nak	Egegik	Ugashik
Kvi-Nak	295	72.9	6.1	21.0
Egegik	198	8.1	86.9	5.1
Ugashik	197	13.7	0.0	86.3

Mean classification accuracy = 82.0%

Variables used: 64,8,36,54,78,27,96,42,104,25

Appendix B.10. Stock identification models developed for age-2.2 and -2.3 sockeye salmon sampled from Kvichak, Naknek, Egegik, and Ugashik Rivers, 1992.

Actual Group Of Origin	Sample Size	AGE-2.2 Classified Group of Origin (percent)			
		Kvichak	Naknek	Egegik	Ugashik
Kvichak	200	66.5	13.5	5.5	14.5
Naknek	189	11.1	70.4	7.4	11.1
Egegik	200	6.5	4.0	82.0	7.5
Ugashik	200	17.0	14.5	7.0	61.5

Mean classification accuracy = 70.1%

Variables used: 66,35,8,64,105,42,23,25,97,27,5,56

Actual Group Of Origin	Sample Size	AGE-2.3 Classified Group of Origin (percent)		
		Kvichak/Naknek	Egegik	Ugashik
Kvichak/Naknek	194	69.1	11.3	19.6
Egegik	198	17.2	76.3	6.6
Ugashik	195	21.0	1.5	77.4

Mean classification accuracy = 74.3%

Variables used: 64,12,42,57,105,56,21,54,25,32

Appendix B.11. Stock identification models developed for age-2.2 and -2.3 sockeye salmon sampled from Kvichak, Naknek, Egegik, and Ugashik Rivers, 1993.

Actual Group Of Origin	Sample Size	AGE-2.2 Classified Group of Origin (percent)			
		Kvichak	Naknek	Egegik	Ugashik
Kvichak	195	68.2	13.3	10.3	8.2
Naknek	169	11.8	65.1	7.1	16.0
Egegik	200	16.5	7.0	72.5	4.0
Ugashik	197	11.2	13.2	1.0	74.6

Mean classification accuracy = 70.1%

Variables used: 64,27,36,80,66,10

Actual Group Of Origin	Sample Size	AGE-2.3 Classified Group of Origin (percent)	
		Egegik	Kvichak/Naknek/Ugashik
Kvichak/Naknek/Ugashik	200	85.5	14.4
Egegik	276	14.5	85.5

Mean classification accuracy = 85.5%

Variables used: 65,57,63,109,27,10,35,40

Appendix B.12. Stock identification models developed for age-2.2 sockeye salmon sampled from Kvichak, Naknek, Egegik, and Ugashik Rivers, 1994.

Actual Group Of Origin	Sample Size	AGE-2.2 Classified Group of Origin (percent)		
		Kvi-Nak	Egegik	Ugashik
Kvi/Nak	200	73.0	11.5	15.5
Egegik	200	21.5	73.0	5.5
Ugashik	196	14.3	4.6	81.1

Mean classification accuracy = 75.7%

Variables used: 2,69,51,27,76,44,60,18,25,23

Actual Group Of Origin	Sample Size	AGE-2.2 Classified Group of Origin (percent)	
		Kvichak	Naknek
Kvichak	200	79.5	20.5
Naknek	198	21.7	78.3

Mean classification accuracy = 78.9%

Variables used: 65,5,85

Appendix B.13. Stock identification models developed for age-2.2 and -2.3 sockeye salmon sampled from Kvichak, Naknek, Egegik, and Ugashik Rivers, 1995.

Actual Group Of Origin	Sample Size	AGE-2.2 Classified Group of Origin (percent)		
		Kvi-Nak	Egegik	Ugashik
Kvi/Nak	200	73.5	13.5	13.0
Egegik	200	17.0	71.5	11.5
Ugashik	200	15.0	3.0	82.0

Mean classification accuracy = 75.7%

Variables used: 64, 8, 35,105, 27,10, 58, 18, 42, 57

Actual Group Of Origin	Sample Size	AGE-2.3 Classified Group of Origin (percent)	
		Kvichak	Naknek
Kvichak	100	79.0	21.0
Naknek	98	20.4	79.6

Mean classification accuracy = 79.3%

Variables used: 65, 8, 45, 88

Appendix C: Naknek-Kvichak District Stock Composition, 1983 - 1995

Appendix C.1. Stock composition estimates of sockeye salmon catches by age group and date, Naknek-Kvichak District, 1983.

		1.2		1.3		2.2		1.4		2.3		2.4		Other[a]		Total	
Date	System	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number
6/08[b]	Kvichak	95.4	1,638,594	75.8	248,265	59.7	104,587	0.0	0	48.3	27,587	0.0	0	92.1	3,507	88.3	2,022,541
thru	Naknek	0.1	1,718	18.5	60,495	27.2	47,651	96.9	7,381	27.4	15,636	0.0	0	2.6	99	5.8	132,980
6/28	Egegik	0.0	0	0.8	2,506	11.5	20,147	2.0	154	10.6	6,034	0.0	0	1.1	41	1.5	28,881
	Ugashik	4.5	77,292	5.0	16,259	1.6	2,803	1.1	81	13.8	7,869	0.0	0	4.2	161	4.6	104,465
	Total	100.0	1,717,604	100.0	327,525	100.0	175,188	100.0	7,616	100.0	57,126	0.0	0	100.0	3,808	100.2	2,288,867
6/29	Kvichak	91.9	4,089,757	69.2	538,451	59.7	307,760	0.0	0	36.3	49,624	0.0	0	0.0	0	84.7	4,985,592
thru	Naknek	0.7	31,152	23.2	180,536	27.2	140,219	95.0	9,993	28.3	38,702	0.0	0	0.0	0	6.8	400,603
7/02	Egegik	1.9	84,554	2.0	15,383	11.5	59,284	4.1	428	22.5	30,717	0.0	0	0.0	0	3.2	190,366
	Ugashik	5.5	244,762	5.7	44,156	1.6	8,248	0.9	100	13.0	17,724	0.0	0	0.0	0	5.3	314,991
	Total	100.0	4,450,225	100.0	778,526	100.0	515,511	100.0	10,521	100.0	136,768	0.0	0	0.0	0	100.0	5,891,551
7/03	Kvichak	96.7	5,975,415	70.7	528,753	53.9	354,622	0.0	0	41.9	43,218	0.0	0	0.0	0	89.7	6,902,007
thru	Naknek	0.0	0	26.5	198,592	42.0	276,329	0.0	0	36.6	37,757	100.0	12,900	0.0	0	6.8	525,578
7/08	Egegik	2.0	123,587	1.4	10,457	3.0	19,738	0.0	0	17.9	18,518	0.0	0	0.0	0	2.2	172,299
	Ugashik	1.3	80,331	1.4	10,426	1.1	7,237	0.0	0	3.6	3,711	0.0	0	0.0	0	1.3	101,706
	Total	100.0	6,179,333	100.0	748,228	100.0	657,925	0.0	0	100.0	103,204	100.0	12,900	0.0	0	100.0	7,701,590
7/09[c]	Kvichak	98.7	4,405,369	66.2	332,374	54.0	314,450	0.0	0	44.0	36,146	0.0	0	97.6	8,913	89.7	5,098,251
thru	Naknek	0.6	26,780	32.8	164,845	42.0	245,350	99.6	27,268	50.8	41,700	100.0	9,128	2.0	180	9.1	515,252
8/02	Egegik	0.0	0	0.2	1,078	3.0	17,525	0.3	90	3.1	2,539	0.0	0	0.0	4	0.4	21,236
	Ugashik	0.7	31,244	0.7	3,722	1.0	5,842	0.1	25	2.1	1,763	0.0	0	0.3	30	0.8	42,625
	Total	100.0	4,463,393	100.0	502,018	100.0	584,166	100.0	27,383	100.0	82,148	100.0	9,128	100.0	9,128	100.0	5,677,364
Total	Kvichak	95.8	16,109,135	69.9	1,647,843	56.1	1,082,419	0.0	0	41.3	156,575	0.0	0	96.0	12,420	88.2	19,008,392
	Naknek	0.4	59,650	25.7	604,469	36.7	709,548	98.0	44,643	35.3	133,796	100.0	22,028	2.2	279	7.3	1,574,412
	Egegik	1.2	208,141	1.2	29,423	6.0	116,693	1.5	671	15.2	57,808	0.0	0	0.3	45	1.9	412,781
	Ugashik	2.6	433,630	3.2	74,562	1.2	24,130	0.5	206	8.2	31,068	0.0	0	1.5	191	2.6	563,787
	Total	100.0	16,810,555	100.0	2,356,297	100.0	1,932,790	100.0	45,520	100.0	379,246	100.0	22,028	100.0	12,936	100.0	21,559,372

[a] Other includes age-0.3 and -2.1

[b] Scale samples were collected from 19 through 28 June. Stock composition estimates calculated from those dates were applied to 8 through 28 June catches.

[c] Scale samples were collected from 9 through 15 July. Stock composition estimates calculated from those dates were applied to 8 July through 2 August catches.

Appendix C.2. Stock composition estimates of sockeye salmon catches by age group and date, Naknek-Kvichak District, 1984.

		1.2		1.3		2.2		1.4		2.3		3.2		Other[a]		Total	
Date	System	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number
6/11[b]	Kvichak	32.1	21,310	22.7	22,873	66.0	183,959	0.0	0	16.5	5,776	0.0	0	0.0	0	48.5	233,917
thru	Naknek	43.7	29,054	61.8	62,272	16.0	44,596	60.6	359	64.6	22,612	0.0	0	94.5	560	33.0	159,455
6/23	Egegik	1.2	812	0.3	351	1.6	4,460	0.9	5	6.8	2,374	26.1	155	5.5	33	1.7	8,189
	Ugashik	22.9	15,242	15.2	15,319	16.4	45,711	38.5	228	12.1	4,227	73.9	438	0.0	0	16.8	81,165
	Total	100.0	66,419	100.0	100,815	100.0	278,725	100.0	593	100.0	34,989	100.0	593	100.0	593	100.0	482,727
6/29	Kvichak	27.3	102,711	18.0	102,913	62.6	988,319	0.0	0	13.6	26,929	0.0	0	0.0	0	44.7	1,220,873
thru	Naknek	53.0	199,319	69.8	398,802	21.6	341,018	69.0	2,318	75.7	150,040	0.0	0	99.5	3,341	40.0	1,094,837
7/02	Egegik	0.1	516	0.0	208	0.2	3,158	0.1	3	0.7	1,458	4.4	149	0.5	18	0.2	5,510
	Ugashik	19.6	73,676	12.1	69,126	15.6	246,290	30.9	1,038	10.0	19,760	95.6	3,210	0.0	0	15.1	413,102
	Total	100.0	376,222	100.0	571,050	100.0	1,578,785	100.0	3,359	100.0	198,188	100.0	3,359	100.0	3359	100.0	2,734,322
7/04	Kvichak	29.1	77,214	17.5	109,787	68.6	1,511,698	0.0	0	13.0	27,843	0.0	0	0.0	0	52.1	1,726,542
thru	Naknek	66.6	176,615	80.1	501,462	27.9	614,816	0.0	0	85.1	182,852	0.0	0	0.0	0	44.5	1,475,746
7/06	Egegik	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0
	Ugashik	4.3	11,340	2.4	15,098	3.5	77,127	0.0	0	1.9	4,183	100.0	4,572	0.0	0	3.4	112,320
	Total	100.0	265,169	100.0	626,347	100.0	2,203,642	0.0	0	100.0	214,878	100.0	4,572	0.0	0	100.0	3,314,608
7/07[c]	Kvichak	26.8	119,697	16.7	166,679	64.1	3,891,712	0.0	0	12.5	60,419	0.0	0	64.1	3,399	53.0	4,241,906
thru	Naknek	61.4	274,106	76.4	762,198	26.1	1,584,613	81.1	4,301	81.9	397,249	0.0	0	26.1	1,384	37.7	3,023,852
8/04	Egegik	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0
	Ugashik	11.8	52,676	6.9	68,686	9.8	594,989	18.9	1,002	5.6	27,200	100.0	4,223	9.8	520	9.3	749,295
	Total	100.0	446,480	100.0	997,563	100.0	6,071,314	100.0	5,303	100.0	484,867	100.0	4,223	100.0	5,303	100.0	8,015,053
Total	Kvichak	27.8	320,933	17.5	402,252	64.9	6,575,689	0.0	0	13.0	120,967	0.0	0	36.7	3,399	51.0	7,423,240
	Naknek	58.9	679,095	75.2	1,724,735	25.5	2,585,043	75.4	6,978	80.7	752,753	0.0	0	57.1	5,285	39.6	5,753,889
	Egegik	0.1	1,328	0.0	559	0.1	7,617	0.1	9	0.4	3,832	2.4	303	0.6	51	0.1	13,699
	Ugashik	13.2	152,934	7.3	168,229	9.5	964,118	24.5	2,268	5.9	55,370	97.6	12,444	5.6	520	9.3	1,355,882
	Total	100.0	1,154,290	100.0	2,295,775	100.0	10,132,466	100.0	9,255	100.0	932,922	100.0	12,747	100.0	9,255	100.0	14,546,710

[a] Other includes age-0.3 and -3.3

[a] Scale samples were collected from 19 through 23 June. Stock composition estimates calculated from those dates were applied to 11 through 23 June catches.

[b] Scale samples were collected from 8 through 11 July. Stock composition estimates calculated from those dates were applied to 7 July through 4 August catches.

Appendix C.3. Stock composition estimates of sockeye salmon catches by age group and date, Naknek-Kvichak District, 1985.

		0.2		0.3		1.2		1.3		2.2		2.3		Other[a]		Total	
Date	System	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number
6/10[b]	Kvichak	96.0	1,406	100.0	1,464	52.4	78,205	53.6	204,002	94.1	782,407	91.9	296,000	0.0	0	80.9	1,363,484
thru	Naknek	0.0	0	0.0	0	14.6	21,860	11.8	44,911	2.6	21,618	3.0	9,627	0.0	0	5.8	98,016
6/29	Egegik	3.3	48	0.0	0	3.3	4,889	4.6	17,508	2.5	20,787	1.2	3,804	0.0	0	2.8	47,036
	Ugashik	0.7	10	0.0	0	29.7	44,357	30.0	114,180	0.8	6,652	3.9	12,615	0.0	0	10.5	177,814
	Total	100.0	1,464	100.0	1,464	100.0	149,312	100.0	380,600	100.0	831,463	100.0	322,046	0.0	0	100.0	1,686,349
6/30	Kvichak	96.3	2,176	100.0	2,260	37.3	85,927	36.6	215,029	86.9	1,115,349	85.6	425,433	0.0	0	70.9	1,846,176
thru	Naknek	0.0	0	0.0	0	31.9	73,418	30.3	178,016	7.5	96,261	8.5	42,296	0.0	0	15.0	389,991
7/02	Egegik	2.8	63	0.0	0	2.0	4,539	0.0	0	3.4	43,639	0.9	4,619	0.0	0	2.0	52,860
	Ugashik	0.9	20	0.0	0	28.9	66,602	33.1	194,466	2.2	28,237	5.0	24,777	0.0	0	12.1	314,102
	Total	100.0	2,260	100.0	2,260	100.0	230,486	100.0	587,512	100.0	1,283,486	100.0	497,125	0.0	0	100.0	2,603,129
7/03	Kvichak	0.0	0	100.0	1,196	36.2	43,262	43.0	150,108	87.3	433,126	83.6	252,003	0.0	0	69.2	879,695
thru	Naknek	0.0	0	0.0	0	44.9	53,624	35.9	125,323	9.9	49,117	12.1	36,346	63.6	3,044	21.0	267,455
7/05	Egegik	0.0	0	0.0	0	3.3	3,949	6.2	21,644	2.3	11,411	1.6	4,728	0.0	0	3.3	41,731
	Ugashik	0.0	0	0.0	0	15.7	18,716	14.9	52,014	0.5	2,481	2.7	8,192	36.4	1,739	6.5	83,143
	Total	0.0	0	100.0	1,196	100.0	119,551	100.0	349,089	100.0	496,135	100.0	301,269	100.0	4,783	100.0	1,272,023
7/08	Kvichak	89.5	1,105	100.0	412	37.9	46,421	49.9	100,209	75.3	379,067	83.3	231,630	0.0	0	68.5	758,843
thru	Naknek	0.0	0	0.0	0	46.0	56,334	38.3	76,914	12.6	63,430	11.8	32,708	45.8	658	20.8	230,042
7/10	Egegik	10.3	127	0.0	0	7.9	9,684	6.6	13,254	9.7	48,831	3.6	9,932	36.1	519	7.4	82,346
	Ugashik	0.2	3	0.0	0	8.2	10,101	5.2	10,443	2.4	12,082	1.4	3,787	18.1	260	3.3	36,676
	Total	100.0	1,234	100.0	412	100.0	122,540	100.0	200,819	100.0	503,409	100.0	278,057	100.0	1,436	100.0	1,107,907
7/11[c]	Kvichak	79.4	4,230	100.0	1,776	23.4	26,622	29.1	86,313	61.7	392,315	71.6	326,848	0.0	0	55.5	838,105
thru	Naknek	0.0	0	0.0	0	51.7	58,722	51.8	153,643	15.9	101,099	18.4	83,888	0.0	0	26.3	397,352
8/24	Egegik	20.0	1,068	0.0	0	10.8	12,237	10.9	32,330	16.4	104,278	6.8	30,880	0.0	0	12.0	180,793
	Ugashik	0.6	31	0.0	0	14.2	16,089	8.2	24,322	6.0	38,151	3.3	14,842	0.0	0	6.2	93,435
	Total	100.0	5,329	100.0	1,776	100.0	113,670	100.0	296,609	100.0	635,843	100.0	456,458	0.0	0	100.0	1,509,685

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Appendix C.3. (p 2 of 2).

		0.2		0.3		1.2		1.3		2.2		2.3		Other[a]		Total	
Date	System	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number
Total	Kvichak	86.7	8,917	100.0	7,108	38.1	280,437	41.6	755,661	82.8	3,102,264	82.6	1,531,915	0.0	0	69.6	5,686,303
	Naknek	0.0	0	0.0	0	35.9	263,958	31.9	578,807	8.8	331,525	11.0	204,864	59.6	3,702	16.9	1,382,856
	Egegik	12.7	1,306	0.0	0	4.8	35,298	4.7	84,736	6.1	228,945	2.9	53,963	8.3	519	4.9	404,765
	Ugashik	0.6	64	0.0	0	21.2	155,867	21.8	395,425	2.3	87,601	3.5	64,213	32.1	1,999	8.6	705,169
	Total	100.0	10,287	100.0	7,108	100.0	735,559	100.0	1,814,629	100.0	3,750,336	100.0	1,854,955	100.0	6,219	100.0	8,179,093

[a] Other includes age-2.1, -1.4, and -3.2

[a] Scale samples were collected from 18 June through 2 July. Stock composition estimates calculated from those dates were applied to 11 June through 4 July catches.

[b] Scale samples were collected from 7 through 10 July. Stock composition estimates calculated from those dates were applied to 5 July through 7 September catches.

Appendix C.4. Stock composition estimates of sockeye salmon catches by age group and date, Naknek-Kvichak District, 1986.

		0.3		1.2		1.3		2.2		1.4		2.3		Other[a]		Total	
Date	System	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number
6/09[b]	Kvichak	16.5	85	45.0	44,855	5.4	25,358	41.1	87,654	8.1	263	17.8	49,685	21.2	109	19.5	208,008
thru	Naknek	69.3	356	36.7	36,593	86.8	407,605	30.7	65,474	75.2	2,437	68.7	192,102	0.0	0	66.0	704,568
7/05	Egegik	7.9	40	16.0	15,955	0.0	0	25.2	53,744	1.9	63	8.7	24,353	53.5	275	8.9	94,430
	Ugashik	6.3	32	2.4	2,360	7.8	36,628	3.0	6,398	14.8	479	4.8	13,305	25.3	130	5.6	59,334
	Total	100.0	514	100.0	99,763	100.0	469,591	100.0	213,270	100.0	3,242	100.0	279,446	100.0	514	100.0	1,066,340
7/06	Kvichak	0.0	0	14.9	1,871	0.8	522	12.6	4,004	2.2	9	5.0	1,968	0.0	0	5.6	8,375
	Naknek	0.0	0	44.2	5,568	77.3	50,448	58.7	18,654	74.7	318	71.1	27,752	0.0	0	68.9	102,739
	Egegik	0.0	0	37.1	4,669	13.2	8,615	20.4	6,483	3.7	16	17.3	6,766	0.0	0	17.8	26,548
	Ugashik	0.0	0	3.8	475	8.7	5,678	8.3	2,638	19.4	83	6.5	2,543	0.0	0	7.7	11,417
	Total	0.0	0	100.0	12,583	100.0	65,262	100.0	31,779	100.0	426	100.0	39,029	0.0	0	100.0	149,079
7/09	Kvichak	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0
thru	Naknek	0.0	0	73.2	47,887	88.4	304,858	89.8	86,595	90.5	1,479	88.6	82,583	0.0	0	87.0	523,402
7/10	Egegik	0.0	0	24.7	16,149	8.1	27,934	6.7	6,461	1.8	29	8.7	8,097	0.0	0	9.8	58,670
	Ugashik	0.0	0	2.0	1,340	3.5	12,070	3.5	3,375	7.7	126	2.7	2,481	0.0	0	3.2	19,393
	Total	0.0	0	100.0	65,376	100.0	344,862	100.0	96,431	100.0	1,634	100.0	93,162	0.0	0	100.0	601,465
7/11	Kvichak	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0
thru	Naknek	99.0	2,514	99.3	44,127	100.0	382,923	95.3	102,276	97.8	0	99.2	91,986	0.0	0	99.0	623,825
7/12	Egegik	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0
	Ugashik	1.0	26	0.7	325	0.0	0	4.7	5,044	2.2	0	0.8	728	0.0	0	1.0	6,124
	Total	100.0	2,540	100.0	44,452	100.0	382,923	100.0	107,320	100.0	0	100.0	92,714	0.0	0	100.0	629,949
7/13[c]	Kvichak	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0
thru	Naknek	94.5	1,698	81.8	25,716	93.0	251,755	100.0	75,869	98.7	0	93.9	61,570	0.0	0	93.5	416,608
8/22	Egegik	5.5	98	18.2	5,709	7.0	18,949	0.0	0	1.3	0	6.1	3,974	0.0	0	6.5	28,730
	Ugashik	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0
	Total	100.0	1,796	100.0	31,425	100.0	270,704	100.0	75,869	100.0	0	100.0	65,544	0.0	0	100.0	445,338

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

		0.3		1.2		1.3		2.2		1.4		2.3		Other[a]		Total	
Date	System	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number
Total	Kvichak	1.8	85	18.4	46,726	1.7	25,880	17.5	91,658	5.1	272	9.1	51,653	21.2	109	7.5	216,383
	Naknek	94.1	4,567	63.0	159,890	91.2	1,397,589	66.5	348,869	79.9	4,234	80.0	455,993	0.0	0	82.0	2,371,142
	Egegik	2.9	139	16.8	42,482	3.6	55,497	12.7	66,687	2.0	108	7.6	43,190	53.5	275	7.2	208,378
	Ugashik	1.2	59	1.8	4,501	3.5	54,376	3.3	17,455	13.0	688	3.3	19,059	25.3	130	3.3	96,268
	Total	100.0	4,850	100.0	253,599	100.0	1,533,342	100.0	524,669	100.0	5,302	100.0	569,895	100.0	514	100.0	2,892,171

[a] Includes age-1.1 and -2.4

[b] Scale samples were collected on 4 July. Stock composition estimates calculated for 4 July were applied to 9 June through 5 July catches.

[c] Scale samples were collected from 13 and 15 July. Stock composition estimates calculated from those dates were applied to 13 July through 22 August catches.

Appendix C.5. Stock composition estimates of sockeye salmon catches by age group and date, Naknek-Kvichak District, 1987.

		0.3		1.2		1.3		2.2		1.4		2.3		Other[a]		Total	
Date	System	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number
6/10[b]	Kvichak	0.0	0	86.9	16,226	6.2	769	20.4	487	0.0	0	0.0	0	0.0	0	40.4	17,482
thru	Naknek	0.0	0	3.2	598	76.8	9,501	42.8	1,022	96.6	105	84.7	8,000	0.0	0	44.3	19,225
6/23	Egegik	0.0	0	2.2	411	10.2	1,261	22.6	540	0.6	1	11.8	1,115	0.0	0	7.7	3,328
	Ugashik	100.0	326	7.7	1,438	6.8	844	14.2	339	2.8	3	3.5	331	0.0	0	7.6	3,280
	Total	100.0	326	100.0	18,672	100.0	12,375	100.0	2,388	100.0	109	100.0	9,445	0.0	0	100.0	43,315
6/29	Kvichak	0.0	0	90.3	46,000	4.3	1,242	15.2	1,875	0.0	0	0.0	0	14.7	39	36.2	49,155
	Naknek	0.0	0	5.5	2,802	79.9	23,008	47.8	5,902	97.7	389	78.3	33,757	76.2	203	48.6	66,060
	Egegik	0.0	0	2.5	1,274	11.6	3,341	27.7	3,414	0.7	3	13.5	5,820	5.3	14	10.2	13,866
	Ugashik	0.0	0	1.7	866	4.2	1,196	9.3	1,147	1.6	7	8.2	3,535	3.8	10	5.0	6,762
	Total	0.0	0	100.0	50,941	100.0	28,787	100.0	12,338	100.0	398	100.0	43,113	0.0	266	100.0	135,843
7/01	Kvichak	0.0	0	90.3	50,727	9.2	2,895	28.0	3,004	0.0	0	0.0	0	0.0	0	48.5	56,627
thru	Naknek	0.0	0	5.5	3,090	74.0	23,183	38.0	4,077	97.3	204	78.3	14,333	0.0	0	38.4	44,887
7/02	Egegik	0.0	0	2.5	1,404	12.3	3,859	25.3	2,715	0.8	2	13.5	2,471	0.0	0	9.0	10,451
	Ugashik	0.0	0	1.7	955	4.5	1,411	8.7	934	1.9	4	8.2	1,501	0.0	0	4.1	4,805
	Total	0.0	0	100.0	56,176	100.0	31,349	100.0	10,730	100.0	210	100.0	18,305	0.0	0	100.0	116,770
7/06	Kvichak	0.0	0	81.3	112,572	10.9	5,093	25.1	5,883	0.0	0	0.0	0	0.0	0	51.8	123,548
thru	Naknek	0.0	0	0.2	277	53.3	24,991	20.9	4,904	87.6	761	83.0	23,418	92.9	403	23.0	54,754
7/07	Egegik	0.0	0	2.9	4,015	14.8	6,955	23.2	5,437	1.2	11	17.0	4,796	0.0	0	8.9	21,214
	Ugashik	0.0	0	15.6	21,601	21.0	9,840	30.8	7,215	11.2	97	0.0	0	7.1	31	16.3	38,783
	Total	0.0	0	100.0	138,465	100.0	46,879	100.0	23,439	100.0	868	100.0	28,214	100.0	434	100.0	238,299
7/08	Kvichak	0.0	0	80.9	134,087	7.2	4,926	20.9	6,211	0.0	0	0.0	0	0.0	0	44.9	145,224
thru	Naknek	0.0	0	3.9	6,464	68.7	46,724	33.8	10,045	93.1	533	80.9	48,087	0.0	0	34.6	111,853
7/09	Egegik	0.0	0	4.0	6,630	9.9	6,726	19.3	5,736	0.7	4	6.5	3,864	0.0	0	7.1	22,959
	Ugashik	0.0	0	11.2	18,563	14.2	9,638	26.0	7,727	6.2	36	12.6	7,489	0.0	0	13.4	43,453
	Total	0.0	0	100.0	165,744	100.0	68,013	100.0	29,720	100.0	572	100.0	59,440	0.0	0	100.0	323,489

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Appendix C.5. (p 2 of 2).

		0.3		1.2		1.3		2.2		1.4		2.3		Other[a]		Total	
Date	System	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number
7/10	Kvichak	0.0	0	100.0	823,241	35.6	86,544	69.9	49,662	0.0	0	0.0	0	0.0	0	79.1	959,448
thru	Naknek	0.0	0	0.0	0	55.1	133,989	18.4	13,061	96.1	2,204	74.5	54,668	0.0	0	16.8	203,922
7/11	Egegik	0.0	0	0.0	0	2.7	6,460	3.5	2,508	0.2	5	4.8	3,522	0.0	0	1.0	12,495
	Ugashik	0.0	0	0.0	0	6.6	16,079	8.2	5,857	3.7	85	20.7	15,190	0.0	0	3.1	37,210
	Total	0.0	0	100.0	823,241	100.0	243,073	100.0	71,088	100.0	2,293	100.0	73,380	0.0	0	100.0	1,213,075
7/12	Kvichak	0.0	0	90.1	442,464	13.4	18,060	42.1	13,906	0.0	0	0.0	0	0.0	0	63.3	474,430
	Naknek	0.0	0	4.6	22,590	78.7	106,217	42.1	13,892	0.0	0	100.0	89,026	0.0	0	30.9	231,725
	Egegik	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0
	Ugashik	100.0	1,436	5.3	26,027	7.9	10,698	15.8	5,228	0.0	0	0.0	0	0.0	0	5.8	43,389
	Total	100.0	1,436	100.0	491,081	100.0	134,975	100.0	33,026	0.0	0	100.0	89,026	0.0	0	100.0	749,544
7/13	Kvichak	0.0	0	90.1	564,381	11.2	34,059	33.0	17,338	0.0	0	0.0	0	0.0	0	53.7	615,778
thru	Naknek	0.0	0	4.6	28,814	73.0	222,297	36.6	19,223	0.0	0	80.8	129,185	0.0	0	34.8	399,520
7/14	Egegik	0.0	0	0.0	0	7.2	21,883	14.3	7,538	0.0	0	13.0	20,785	0.0	0	4.3	50,205
	Ugashik	100.0	4,380	5.3	33,199	8.6	26,197	16.1	8,465	0.0	0	6.2	9,913	0.0	0	7.2	82,154
	Total	100.0	4,380	100.0	626,394	100.0	304,436	100.0	52,564	0.0	0	100.0	159,883	0.0	0	100.0	1,147,657
7/15[c]	Kvichak	0.0	0	90.3	575,191	15.8	36,183	39.1	13,540	0.0	0	0.0	0	0.0	0	61.4	624,914
thru	Naknek	0.0	0	1.9	12,103	62.1	142,211	26.2	9,072	89.7	1,726	73.8	85,213	0.0	0	24.6	250,325
9/02	Egegik	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0
	Ugashik	0.0	0	7.8	49,684	22.1	50,610	34.7	12,027	10.3	198	26.2	30,252	0.0	0	14.0	142,771
	Total	0.0	0	100.0	636,978	100.0	229,004	100.0	34,639	100.0	1,924	100.0	115,465	0.0	0	100.0	1,018,010
Total	Kvichak	0.0	0	91.9	2,764,889	17.3	189,771	41.5	111,907	0.0	0	0.0	0	5.6	39	61.5	3,066,606
	Naknek	0.0	0	2.6	76,736	66.6	732,122	30.1	81,199	92.9	5,921	81.5	485,687	86.6	606	27.7	1,382,271
	Egegik	0.0	0	0.4	13,734	4.6	50,485	10.3	27,888	0.4	24	7.1	42,373	2.0	14	2.7	134,518
	Ugashik	100.0	6,142	5.1	152,333	11.5	126,513	18.1	48,938	6.7	429	11.4	68,211	5.8	41	8.1	402,607
	Total	100.0	6,142	100.0	3,007,692	100.0	1,098,891	100.0	269,932	100.0	6,374	100.0	596,271	100.0	700	100.0	4,986,002

[a] Includes age-2.1 and -2.4.

[b] Scale samples were collected on 22 June. Stock composition estimates calculated for 22 June were applied to 10 June through 22 June catches.

[c] Scale samples were collected on 15 July. Stock composition estimates calculated for 15 July were applied to 15 July through 2 September catches.

Appendix C.6. Stock composition estimates of sockeye salmon catches by age group and date, Naknek-Kvichak District, 1988.

		1.2		2.1		1.3		2.2		1.4		2.3		Other[a]		Total	
Date	System	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number
6/06[b]	Kvichak	89.4	37,667	0.0	0	88.5	152,634	80.3	31,837	32.7	162	29.9	3,556	0.0	0	84.8	225,856
thru	Naknek	8.7	3,650	0.0	0	9.0	15,522	8.9	3,529	66.0	327	52.1	6,197	0.0	0	11.0	29,225
6/23	Egegik	0.3	129	0.0	0	0.9	1,552	8.8	3,489	0.4	2	5.1	607	0.0	0	2.1	5,779
	Ugashik	1.6	680	0.0	0	1.6	2,759	2.0	793	0.9	4	12.9	1,534	0.0	0	2.1	5,772
	Total	100.0	42,126	0.0	0	100.0	172,468	100.0	39,648	100.0	496	100.0	11,894	0.0	0	100.0	266,632
6/24	Kvichak	95.9	245,120	75.4	535	97.5	547,452	76.3	133,612	60.7	1,292	50.4	36,837	80.6	2,138	90.3	966,983
thru	Naknek	2.8	7,273	6.4	45	0.0	0	12.3	21,539	37.4	796	26.9	19,618	0.0	0	4.6	49,272
7/01	Egegik	0.5	1,269	11.3	80	2.5	14,037	8.0	14,009	1.1	23	12.8	9,358	0.0	0	3.6	38,778
	Ugashik	0.8	2,010	6.9	49	0.0	0	3.4	5,954	0.8	17	9.9	7,218	19.4	515	1.5	15,763
	Total	100.0	255,672	100.0	709	100.0	561,489	100.0	175,114	100.0	2,128	100.0	73,031	100.0	2,653	100.0	1,070,796
7/03	Kvichak	60.2	19,242	0.0	0	52.8	27,198	54.7	15,407	7.0	35	7.3	1,760	0.0	0	46.7	63,644
thru	Naknek	38.4	12,270	0.0	0	40.9	21,068	28.0	7,887	92.4	469	84.1	20,274	0.0	0	45.5	61,968
7/04	Egegik	1.4	461	0.0	0	6.3	3,245	17.3	4,873	0.6	3	8.6	2,073	0.0	0	7.8	10,655
	Ugashik	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0
	Total	100.0	31,973	0.0	0	100.0	51,512	100.0	28,167	100.0	508	100.0	24,107	0.0	0	100.0	136,267
7/05	Kvichak	98.8	112,647	0.0	0	97.5	153,959	92.7	75,488	85.1	1,205	73.9	17,794	0.0	0	95.3	361,094
thru	Naknek	0.8	863	0.0	0	0.0	0	2.3	1,873	13.5	192	10.2	2,446	0.0	0	1.4	5,373
7/07	Egegik	0.4	495	0.0	0	2.5	3,948	5.0	4,072	1.4	20	15.9	3,836	0.0	0	3.3	12,370
	Ugashik	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0
	Total	100.0	114,005	0.0	0	100.0	157,907	100.0	81,433	100.0	1,416	100.0	24,076	0.0	0	100.0	378,837
7/08	Kvichak	56.2	21,100	0.0	0	56.8	37,684	44.4	8,342	6.1	36	6.5	2,090	0.0	0	44.6	69,251
thru	Naknek	41.7	15,651	0.0	0	39.1	25,941	55.6	10,446	93.5	549	87.0	27,825	0.0	0	51.8	80,412
7/10	Egegik	0.1	54	0.0	0	1.4	929	0.0	0	0.1	0	0.8	260	0.0	0	0.8	1,243
	Ugashik	2.0	770	0.0	0	2.7	1,791	0.0	0	0.3	2	5.7	1,823	0.0	0	2.8	4,387
	Total	100.0	37,575	0.0	0	100.0	66,345	100.0	18,788	100.0	587	100.0	31,998	0.0	0	100.0	155,293

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Appendix C.6. (p 2 of 2).

		1.2		2.1		1.3		2.2		1.4		2.3		Other[a]		Total	
Date	System	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number
7/11	Kvichak	93.2	185,663	72.8	1,395	92.1	191,434	80.8	59,207	41.5	199	39.8	13,915	89.9	861	87.3	452,673
thru	Naknek	6.2	12,394	13.8	264	5.9	12,263	7.6	5,569	57.5	276	47.8	16,712	9.7	93	9.1	47,570
7/12	Egegik	0.6	1,178	13.4	256	2.0	4,157	11.6	8,500	1.0	5	12.4	4,335	0.5	5	3.6	18,437
	Ugashik	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0
	Total	100.0	199,235	100.0	1,916	100.0	207,854	100.0	73,276	100.0	479	100.0	34,962	100.0	958	100.0	518,680
7/13	Kvichak	83.1	131,153	60.5	180	84.0	124,617	73.5	46,076	19.3	257	21.1	7,324	87.9	261	76.4	309,869
thru	Naknek	16.7	26,357	34.4	102	16.0	23,736	20.2	12,663	80.5	1,073	75.9	26,302	12.1	36	22.3	90,269
7/14	Egegik	0.2	316	5.1	15	0.0	0	6.3	3,949	0.2	3	3.0	1,045	0.0	0	1.3	5,328
	Ugashik	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0
	Total	100.0	157,826	100.0	297	100.0	148,353	100.0	62,688	100.0	1,333	100.0	34,671	100.0	298	100.0	405,466
7/15[c]	Kvichak 0	80.1	205,321	58.1	987	77.5	140,677	81.7	65,200	16.2	652	18.2	4,62	0.0	0	76.1	417,457
thru	Naknek	19.9	51,032	41.0	696	22.0	39,934	18.3	14,604	83.8	3,366	81.3	20,611	0.0	0	23.7	130,244
9/01	Egegik	0.0	114	0.9	16	0.5	908	0.0	0	0.0	1	0.5	126	0.0	0	0.2	1,164
	Ugashik	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0
	Total	100.0	256,467	100.0	1,699	100.0	181,519	100.0	79,804	100.0	4,019	100.0	25,357	0.0	0	100.0	548,865
Total	Kvichak	87.5	957,915	67.0	3,096	88.9	1,375,655	77.9	435,169	35.0	3,837	33.8	87,895	83.4	3,260	82.4	2,866,827
	Naknek	11.8	129,489	24.0	1,108	8.9	138,465	13.9	78,110	64.3	7,048	53.8	139,984	3.3	129	14.2	494,333
	Egegik	0.4	4,015	7.9	368	1.9	28,776	7.0	38,892	0.5	57	8.3	21,641	0.1	5	2.7	93,754
	Ugashik	0.3	3,460	1.1	49	0.3	4,551	1.2	6,747	0.2	24	4.1	10,576	13.2	515	0.7	25,922
	Total	100.0	1,094,879	100.0	4,621	100.0	1,547,447	100.0	558,918	100.0	10,966	100.0	260,096	100.0	3,909	100.0	3,480,836

[a] Includes age-1.1 and -0.3.

[b] Scale samples were collected on 21 June. Stock composition estimates calculated for 21 June were applied to 6 June through 23 June catches.

[c] Scale samples were collected from 15 and 17 July. Stock composition estimates calculated for those dates were applied to 15 July through 3 September catches.

Appendix C.7. Stock composition estimates of sockeye salmon catches by age group and date, Naknek-Kvichak District, 1989.

		0.2		0.3		1.2		1.3		2.2		2.3		Other[a]		Total	
Date	System	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number
6/09[b]	Kvichak	0.0	0	54.7	971	30.3	16,672	37.4	69,008	78.1	448,364	22.8	33,499	7.3	170	58.9	568,683
thru	Naknek	0.0	0	38.7	685	64.1	35,204	58.2	107,370	17.8	102,188	63.9	94,001	91.8	2,141	35.4	341,590
6/25	Egegik	0.0	0	0.0	0	0.6	306	0.8	1,439	1.0	5,741	10.4	15,372	0.8	19	2.4	22,876
	Ugashik	0.0	0	6.6	117	5.0	2,770	3.6	6,687	3.1	17,797	2.9	4,322	0.1	3	3.3	31,696
	Total	0.0	0	100.0	1,773	100.0	54,952	100.0	184,504	100.0	574,089	100.0	147,194	100.0	2,333	100.0	964,845
6/26	Kvichak	0.0	0	58.8	693	35.5	19,258	43.4	80,306	80.8	281,007	27.7	14,699	58.8	693	61.7	396,657
thru	Naknek	0.0	0	30.4	359	55.0	29,810	49.5	91,599	13.5	46,950	57.0	30,238	30.4	358	31.0	199,315
6/28	Egegik	0.0	0	0.0	0	0.5	273	0.7	1,295	0.8	2,782	9.8	5,216	0.0	0	1.5	9,566
	Ugashik	0.0	0	10.8	127	9.0	4,889	6.4	11,889	4.9	17,041	5.5	2,898	10.8	127	5.8	36,972
	Total	0.0	0	100.0	1,179	100.0	54,230	100.0	185,090	100.0	347,781	100.0	53,051	100.0	1,179	100.0	642,510
6/29	Kvichak	0.0	0	0.0	0	28.9	43,885	38.2	184,968	65.6	998,079	17.4	20,604	41.9	660	54.8	1,248,196
thru	Naknek	0.0	0	0.0	0	24.1	36,567	23.4	113,570	5.9	89,766	19.2	22,816	55.1	868	11.6	263,588
7/01	Egegik	0.0	0	0.0	0	2.8	4,311	4.3	20,665	4.5	68,466	42.7	50,655	3.0	47	6.3	144,144
	Ugashik	0.0	0	0.0	0	44.2	67,206	34.1	165,206	24.0	365,151	20.7	24,505	0.0	0	27.3	622,068
	Total	0.0	0	0.0	0	100.0	151,969	100.0	484,409	100.0	1,521,462	100.0	118,581	100.0	1,575	100.0	2,277,996
7/02	Kvichak	0.0	0	74.3	2,456	55.8	33,193	63.0	170,792	83.1	1,095,807	20.2	22,745	0.0	0	74.9	1,324,993
	Naknek	0.0	0	8.6	284	19.3	11,472	16.0	43,496	3.1	40,878	9.3	10,447	100.0	3,305	6.3	109,882
	Egegik	0.0	0	0.0	0	7.2	4,290	9.3	25,105	7.5	98,900	65.5	73,570	0.0	0	11.4	201,864
	Ugashik	0.0	0	17.1	565	17.7	10,533	11.7	31,610	6.3	83,076	5.0	5,605	0.0	0	7.4	131,390
	Total	0.0	0	100.0	3,305	100.0	59,488	100.0	271,003	100.0	1,318,661	100.0	112,367	100.0	3,305	100.0	1,768,129
7/03	Kvichak	0.0	0	46.8	716	23.0	10,752	28.6	23,446	68.3	307,377	11.6	3,991	0.0	0	56.3	346,282
	Naknek	0.0	0	47.6	728	70.0	32,669	64.1	52,496	22.4	100,809	46.8	16,115	0.0	0	33.0	202,816
	Egegik	0.0	0	0.0	0	3.2	1,488	4.5	3,690	6.6	29,703	40.1	13,822	0.0	0	8.0	48,702
	Ugashik	0.0	0	5.6	86	3.8	1,779	2.8	2,263	2.7	12,151	1.5	513	0.0	0	2.7	16,792
	Total	0.0	0	100.0	1,530	100.0	46,687	100.0	81,895	100.0	450,039	100.0	34,441	0.0	0	100.0	614,592

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Appendix C.7. (p 2 of 3).

Date	System	0.2 %	0.2 Number	0.3 %	0.3 Number	1.2 %	1.2 Number	1.3 %	1.3 Number	2.2 %	2.2 Number	2.3 %	2.3 Number	Other[a] %	Other[a] Number	Total %	Total Number
7/04	Kvichak	0.0	0	69.8	3,167	55.0	82,405	64.7	126,375	86.6	664,411	43.8	23,861	0.0	0	76.9	900,219
	Naknek	0.0	0	8.7	397	20.6	30,856	17.9	34,868	3.5	26,853	21.8	11,873	0.0	0	8.9	104,847
	Egegik	0.0	0	0.0	0	1.0	1,499	1.3	2,614	1.1	8,439	19.9	10,862	0.0	0	2.0	23,415
	Ugashik	0.0	0	21.5	976	23.4	35,052	16.1	31,351	8.8	67,515	14.5	7,882	0.0	0	12.2	142,776
	Total	0.0	0	100.0	4,540	100.0	149,812	100.0	195,209	100.0	767,218	100.0	54,478	0.0	0	100.0	1,171,257
7/05 thru 7/06	Kvichak	62.2	2,284	61.0	2,238	40.1	50,027	48.1	97,098	77.5	1,111,878	18.2	12,691	0.0	0	69.4	1,276,216
	Naknek	0.0	0	18.7	686	36.8	45,910	32.6	65,859	7.7	110,470	22.3	15,525	0.0	0	13.0	238,450
	Egegik	0.0	0	0.0	0	4.7	5,863	6.4	12,855	6.3	90,385	53.0	36,975	0.0	0	7.9	146,078
	Ugashik	37.8	1,385	20.3	745	18.4	22,955	12.9	25,998	8.5	121,948	6.5	4,525	0.0	0	9.7	177,556
	Total	100.0	3,669	100.0	3,669	100.0	124,755	100.0	201,810	100.0	1,434,681	100.0	69,716	0.0	0	100.0	1,838,300
7/07 thru 7/09	Kvichak	0.0	0	53.4	2,372	33.8	54,067	42.4	44,313	77.8	642,917	30.4	12,153	0.0	0	66.6	755,821
	Naknek	0.0	0	24.8	1,102	47.1	75,331	43.6	45,494	11.7	96,685	56.3	22,502	0.0	0	21.2	241,114
	Egegik	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0
	Ugashik	0.0	0	21.8	968	19.1	30,545	14.0	14,600	10.5	86,769	13.3	5,332	0.0	0	12.2	138,214
	Total	0.0	0	100.0	4,442	100.0	159,943	100.0	104,407	100.0	826,371	100.0	39,986	0.0	0	100.0	1,135,149
7/10	Kvichak	0.0	0	51.7	1,792	31.9	26,513	40.2	29,730	76.7	348,837	28.4	3,931	0.0	0	65.3	410,803
	Naknek	0.0	0	27.2	941	50.2	41,722	46.6	34,400	13.0	59,125	59.2	8,204	0.0	0	23.0	144,393
	Egegik	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0
	Ugashik	0.0	0	21.1	730	17.9	14,877	13.2	9,747	10.3	46,845	12.4	1,716	0.0	0	11.7	73,915
	Total	0.0	0	100.0	3,463	100.0	83,112	100.0	73,877	100.0	454,807	100.0	13,852	0.0	0	100.0	629,111
7/11 thru 7/12	Kvichak	67.2	1,855	0.0	0	27.0	42,489	34.1	53,683	74.6	803,546	22.8	11,335	21.3	589	63.1	913,497
	Naknek	0.0	0	0.0	0	63.0	99,204	58.5	92,095	18.8	202,502	70.6	35,098	78.7	2,173	29.8	431,073
	Egegik	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0
	Ugashik	32.8	907	0.0	0	10.0	15,735	7.4	11,650	6.6	71,091	6.6	3,281	0.0	0	7.1	102,665
	Total	100.0	2,762	0.0	0	100.0	157,429	100.0	157,428	100.0	1,077,140	100.0	49,714	100.0	2,762	100.0	1,447,235

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Appendix C.7. (p 3 of 3).

Date	System	0.2 %	0.2 Number	0.3 %	0.3 Number	1.2 %	1.2 Number	1.3 %	1.3 Number	2.2 %	2.2 Number	2.3 %	2.3 Number	Other[a] %	Other[a] Number	Total %	Total Number
7/13	Kvichak	0.0	0	74.6	2,237	49.6	50,508	57.1	47,105	90.1	569,912	42.5	14,652	0.0	0	80.1	684,414
thru	Naknek	0.0	0	25.4	761	50.4	51,417	42.9	35,334	9.9	62,621	57.5	19,822	0.0	0	19.9	169,955
7/16	Egegik	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0
	Ugashik	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0
	Total	0.0	0	100.0	2,998	100.0	101,925	100.0	82,439	100.0	632,533	100.0	34,474	0.0	0	100.0	854,369
7/17[c]	Kvichak	0.0	0	60.4	1,032	40.1	24,684	49.1	38,572	82.4	251,317	36.2	6,807	0.0	0	69.2	322,726
thru	Naknek	0.0	0	22.0	376	43.8	26,921	39.4	30,998	9.7	29,585	52.5	9,866	0.0	0	21.1	98,286
8/25	Egegik	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0
	Ugashik	0.0	0	17.6	300	16.1	9,906	11.5	9,028	7.9	24,095	11.3	2,122	0.0	0	9.7	45,451
	Total	0.0	0	100.0	1,708	100.0	61,512	100.0	78,598	100.0	304,996	100.0	18,795	0.0	0	100.0	466,463
Total	Kvichak	64.4	4,139	61.8	17,674	37.7	454,453	46.0	965,395	77.5	7,523,451	24.2	180,969	20.2	2,426	66.2	9,148,507
	Naknek	0.0	0	22.1	6,319	42.9	517,084	35.6	747,580	10.0	968,433	39.7	296,507	78.2	9,386	18.5	2,545,309
	Egegik	0.0	0	0.0	0	1.5	18,029	3.2	67,665	3.1	304,415	27.7	206,471	0.5	65	4.3	596,645
	Ugashik	35.6	2,292	16.1	4,614	17.9	216,248	15.2	320,029	9.4	913,479	8.4	62,702	1.1	131	11.0	1,519,495
	Total	100.0	6,431	100.0	28,607	100.0	1,205,814	100.0	2,100,669	100.0	9,709,778	100.0	746,649	100.0	12,008	100.0	13,809,956

[a] Includes age-2.1, -0.4, -1.4, and -2.4

[b] Scale samples were collected on 17, 19, 21, and 23 June. Stock composition estimates calculated for those dates were applied to 5 June through 23 June catches.

[c] Scale samples were collected on 17 July. Stock composition estimates calculated for 17 July were applied to 17 July through 25 August catches.

Appendix C.8. Stock composition estimates of sockeye salmon catches by age group and date, Naknek-Kvichak District, 1990.

		0.3		1.2		1.3		2.2		1.4		2.3		Other[a]		Total	
Date	System	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number
6/11[b]	Kvichak	75.1	905	30.8	1,667	66.9	64,851	86.5	53,666	0.0	0	79.2	28,147	84.7	510	74.2	149,747
thru	Naknek	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0
6/23	Egegik	2.3	28	66.4	3,598	27.0	26,204	13.5	8,376	0.0	0	19.2	6,823	12.0	72	22.4	45,102
	Ugashik	22.5	272	2.9	156	6.1	5,922	0.0	0	0.0	0	1.6	569	3.3	20	3.4	6,938
	Total	100.0	1,205	100.0	5,421	100.0	96,978	100.0	62,042	0.0	0	100.0	35,539	100.0	602	100.0	201,787
6/28	Kvichak	0.0	0	15.1	12,567	15.3	27,840	78.6	363,311	0.0	0	79.2	141,320	0.0	0	60.2	545,037
thru	Naknek	0.0	0	83.8	69,747	83.6	151,924	21.4	98,917	0.0	0	19.2	34,259	0.0	0	39.2	354,846
6/29	Egegik	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0
	Ugashik	0.0	0	1.1	956	1.1	2,069	0.0	0	0.0	0	1.6	2,855	0.0	0	0.6	5,880
	Total	0.0	0	100.0	83,269	100.0	181,833	100.0	462,228	0.0	0	100.0	178,434	0.0	0	100.0	905,764
6/30	Kvichak	59.2	1,109	9.4	8,083	9.5	26,764	74.8	298,439	0.0	0	56.9	122,569	0.0	0	46.5	456,964
	Naknek	40.8	764	90.6	78,082	90.5	254,208	25.2	100,543	0.0	0	43.1	92,843	0.0	0	53.5	526,440
	Egegik	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0
	Ugashik	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0
	Total	100.0	1,873	100.0	86,165	100.0	280,972	100.0	398,982	0.0	0	100.0	215,412	0.0	0	100.0	983,404
7/01	Kvichak	40.2	2,178	14.9	25,913	15.6	93,470	86.4	1,246,696	0.0	0	58.4	387,545	38.4	1,387	60.7	1,757,188
thru	Naknek	14.7	796	76.5	132,806	78.5	471,005	12.7	183,253	99.6	5,403	32.4	215,008	5.5	199	34.8	1,008,469
7/03	Egegik	0.1	7	3.3	5,814	0.7	3,927	0.9	12,986	0.4	21	2.8	18,581	50.5	1,829	1.5	43,165
	Ugashik	45.0	2,443	5.2	9,053	5.3	31,916	0.0	0	0.0	0	6.4	42,471	5.6	201	3.0	86,084
	Total	100.0	5,424	100.0	173,585	100.0	600,317	100.0	1,442,935	100.0	5,424	100.0	663,604	100.0	3,616	100.0	2,894,905
7/04	Kvichak	16.6	472	11.1	19,599	12.1	91,018	78.9	968,001	0.0	0	51.0	338,258	13.8	1,575	49.8	1,418,923
thru	Naknek	6.9	197	64.9	114,618	69.4	523,363	12.2	149,678	98.9	11,260	32.2	213,567	2.3	258	35.6	1,012,940
7/05	Egegik	0.2	5	8.0	14,147	1.6	12,303	2.4	29,445	1.1	126	7.8	51,734	75.6	8,614	4.1	116,374
	Ugashik	76.3	2,174	15.9	28,124	16.9	127,657	6.5	79,747	0.0	0	9.0	59,693	8.3	940	10.5	298,333
	Total	100.0	2,847	100.0	176,488	100.0	754,341	100.0	1,226,871	100.0	11,386	100.0	663,250	100.0	11,387	100.0	2,846,570

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Appendix C.8. (p 2 of 3).

		0.3		1.2		1.3		2.2		1.4		2.3		Other*		Total	
Date	System	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number
7/06	Kvichak	42.0	1,045	13.7	35,394	14.9	87,781	88.1	1,068,368	0.0	0	47.7	277,939	0.0	0	55.6	1,470,528
thru	Naknek	16.1	400	73.3	189,790	78.8	462,803	10.0	121,268	98.9	2,463	38.1	222,002	0.0	0	37.7	998,725
7/08	Egegik	0.4	10	8.8	22,872	1.8	10,622	1.9	23,041	1.1	27	8.9	51,859	0.0	0	4.1	108,429
	Ugashik	41.6	1,035	4.2	10,914	4.5	26,456	0.0	0	0.0	0	5.3	30,882	0.0	0	2.6	69,287
	Total	100.0	2,490	100.0	258,969	100.0	587,662	100.0	1,212,677	100.0	2,490	100.0	582,682	0.0	0	100.0	2,646,970
7/09	Kvichak	47.5	3,052	15.4	20,508	16.8	49,043	88.1	458,552	0.0	0	47.7	86,845	0.0	0	54.4	617,999
	Naknek	15.9	1,019	72.3	96,016	77.5	225,756	10.0	52,049	0.0	0	38.1	69,366	0.0	0	39.1	444,207
	Egegik	0.4	24	8.6	11,397	1.8	5,103	1.9	9,889	0.0	0	8.9	16,204	100.0	2,142	3.9	44,759
	Ugashik	36.3	2,331	3.7	4,878	3.9	11,400	0.0	0	0.0	0	5.3	9,649	0.0	0	2.5	28,258
	Total	100.0	6,426	100.0	132,799	100.0	291,302	100.0	520,490	0.0	0	100.0	182,064	100.0	2,142	100.0	1,135,223
7/10	Kvichak	0.0	0	10.7	25,490	11.5	39,053	81.0	660,729	0.0	0	42.7	143,315	0.0	0	50.1	868,588
thru	Naknek	0.0	0	77.9	185,351	82.1	279,207	16.1	131,330	0.0	0	43.7	146,672	66.1	2,809	43.0	745,368
7/11	Egegik	0.0	0	6.6	15,631	1.3	4,484	2.2	17,946	0.0	0	7.3	24,501	28.6	1,215	3.7	63,776
	Ugashik	0.0	0	4.8	11,445	5.0	17,138	0.7	5,710	0.0	0	6.3	21,145	5.3	226	3.2	55,664
	Total	0.0	0	100.0	237,917	100.0	339,882	100.0	815,715	0.0	0	100.0	335,633	100.0	4,249	100.0	1,733,396
7/12	Kvichak	0.0	0	9.0	12,903	9.2	19,575	78.6	295,914	0.0	0	42.7	75,741	69.5	1,258	44.4	405,391
	Naknek	0.0	0	87.3	124,872	87.2	186,271	21.4	80,567	0.0	0	51.0	90,464	18.8	341	52.9	482,515
	Egegik	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0
	Ugashik	0.0	0	3.6	5,215	3.6	7,733	0.0	0	0.0	0	6.3	11,175	11.7	211	2.7	24,335
	Total	0.0	0	100.0	142,990	100.0	213,580	100.0	376,481	0.0	0	100.0	177,380	100.0	1,810	100.0	912,241
7/13	Kvichak	32.1	654	8.7	17,115	8.9	18,290	78.6	351,018	0.0	0	42.7	99,265	0.0	0	44.8	486,342
thru	Naknek	22.9	467	87.4	171,167	87.3	179,854	21.4	95,570	0.0	0	51.0	118,560	0.0	0	52.1	565,617
7/14	Egegik	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	100.0	2,039	0.2	2,039
	Ugashik	45.0	918	3.8	7,483	3.8	7,816	0.0	0	0.0	0	6.3	14,646	0.0	0	2.8	30,864
	Total	100.0	2,039	100.0	195,765	100.0	205,961	100.0	446,588	0.0	0	100.0	232,470	100.0	2,039	100.0	1,084,862

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Appendix C.8. (p 3 of 3).

		0.3		1.2		1.3		2.2		1.4		2.3		Other[a]		Total	
Date	System	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number
7/15[c]	Kvichak	0.0	0	11.4	59,413	12.4	43,249	78.3	626,689	0.0	0	42.7	104,518	57.6	6,718	43.6	840,587
thru	Naknek	0.0	0	66.4	345,492	70.7	247,275	12.6	100,846	0.0	0	41.4	101,336	9.4	1,093	41.3	796,043
9/07	Egegik	0.0	0	7.7	40,306	1.6	5,494	2.4	19,209	0.0	0	9.6	23,498	2.6	300	4.6	88,807
	Ugashik	0.0	0	14.5	75,418	15.3	53,657	6.7	53,625	0.0	0	6.3	15,421	30.4	3,545	10.5	201,665
	Total	0.0	0	100.0	520,629	100.0	349,675	100.0	800,369	0.0	0	100.0	244,773	100.0	11,656	100.0	1,927,102
Total	Kvichak	42.2	9,415	11.8	238,650	14.4	560,935	82.3	6,391,384	0.0	0	51.4	1,805,461	30.5	11,448	52.1	9,017,293
	Naknek	16.3	3,642	74.9	1,507,941	76.4	2,981,666	14.3	1,114,021	99.1	19,126	37.1	1,304,075	12.5	4 698	40.2	6,935,170
	Egegik	0.3	74	5.6	113,764	1.7	68,137	1.6	120,892	0.9	174	5.5	193,200	43.2	16,212	3.0	512,452
	Ugashik	41.1	9,173	7.6	153,642	7.5	291,765	1.8	139,081	0.0	0	5.9	208,504	13.7	5,143	4.7	807,308
	Total	100.0	22,304	100.0	2,013,997	100.0	3,902,503	100.0	7,765,378	100.0	19,300	100.0	3,511,241	100.0	37,501	100.0	17,272,224

[a] Other includes ages-0.2, -2.1, -3.2, and -3.3.

[b] Scale samples were collected from 20 June through 21 June. Stock composition estimates calculated from those dates were applied to 11 June through 23 June catches.

[c] Scale samples were collected on 15 July. Stock composition estimates calculated from that date were applied to 15 July through 7 September catches.

Appendix C.9. Stock composition estimates of sockeye salmon catches by age group and date, Naknek-Kvichak District, 1991.

		0.3		1.2		1.3		2.2		1.4		2.3		Other[a]		Total	
Date	System	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number
6/07[b]	Kvichak	77.4	153	83.3	63,770	12.1	21,317	25.9	8,954	2.9	34	35.9	37,734	0.0	0	33.5	131,962
thru	Naknek	21.4	42	11.8	9,067	80.8	142,348	23.6	8,159	96.7	1,104	57.3	60,181	0.0	0	56.1	220,901
6/30	Egegik	0.3	1	2.2	1,706	2.3	4,052	45.5	15,731	0.4	4	5.5	5,814	0.0	0	6.9	27,308
	Ugashik	0.8	2	2.7	2,044	4.8	8,456	5.0	1,729	0.0	0	1.3	1,368	0.0	0	3.5	13,599
	Total	100.0	197	100.0	76,588	100.0	176,173	100.0	34,573	100.0	1,142	100.0	105,097	0.0	0	100.0	393,770
7/01	Kvichak	80.7	10,279	86.4	345,080	12.3	133,229	28.9	102,822	3.5	65	39.1	195,791	66.7	3,774	33.5	791,040
thru	Naknek	18.9	2,402	10.4	41,421	82.8	896,861	26.4	93,927	96.0	1,811	52.6	263,611	0.0	0	55.1	1,300,033
7/03	Egegik	0.5	59	3.2	12,695	4.9	53,075	44.7	159,036	0.6	11	8.3	41,482	33.3	1,887	11.4	268,245
	Ugashik	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0
	Total	100.0	12,740	100.0	399,197	100.0	1,083,165	100.0	355,785	100.0	1,887	100.0	500,883	100.0	5,661	100.0	2,359,318
7/04	Kvichak	79.7	7,487	87.3	383,763	12.8	169,371	40.4	103,956	3.3	305	40.1	123,674	0.0	0	33.6	788,556
thru	Naknek	19.9	1,872	11.2	49,281	85.6	1,132,668	36.8	94,693	96.6	9,075	57.7	178,141	0.0	0	62.4	1,465,729
7/06	Egegik	0.1	9	0.7	3,003	0.0	0	20.3	52,235	0.1	11	1.8	5,573	0.0	0	2.6	60,831
	Ugashik	0.2	23	0.8	3,693	1.6	21,171	2.5	6,433	0.0	0	0.4	1,346	0.0	0	1.4	32,666
	Total	100.0	9,391	100.0	439,740	100.0	1,323,210	100.0	257,317	100.0	9,391	100.0	308,733	0.0	0	100.0	2,347,782
7/07	Kvichak	83.8	6,856	88.4	332,379	11.5	104,379	40.4	143,692	0.0	0	44.7	200,995	0.0	0	37.6	788,301
thru	Naknek	15.6	1,274	8.4	31,724	76.8	697,070	36.8	130,888	0.0	0	47.9	215,186	0.0	0	51.3	1,076,142
7/09	Egegik	0.4	29	2.4	9,039	10.2	92,580	20.3	72,202	0.0	0	7.0	31,479	0.0	0	9.8	205,329
	Ugashik	0.2	19	0.8	2,873	1.5	13,615	2.5	8,892	0.0	0	0.4	1,965	0.0	0	1.3	27,364
	Total	100.0	8,178	100.0	376,016	100.0	907,643	100.0	355,674	0.0	0	100.0	449,625	0.0	0	100.0	2,097,136
7/10	Kvichak	76.6	1,935	81.4	140,948	11.5	155,952	32.8	61,895	2.9	159	36.1	136,420	0.0	0	23.6	497,308
thru	Naknek	21.5	544	11.7	20,336	76.9	1,042,842	29.8	56,234	96.9	5,308	58.5	220,775	0.0	0	63.9	1,346,039
7/13	Egegik	0.1	4	1.0	1,668	1.4	18,985	23.3	43,968	0.2	9	2.5	9,295	100.0	2,527	3.6	76,455
	Ugashik	1.8	45	5.9	10,168	10.2	138,322	14.1	26,607	0.0	0	2.9	11,129	0.0	0	8.8	186,271
	Total	100.0	2,527	100.0	173,119	100.0	1,356,102	100.0	188,704	100.0	5,476	100.0	377,619	100.0	2,527	100.0	2,106,074

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Appendix C.9. (p 2 of 2).

		0.3		1.2		1.3		2.2		1.4		2.3		Other[a]		Total	
Date	System	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number
7/14	Kvichak	0.0	0	80.7	19,555	10.7	21,826	32.8	10,291	3.0	21	35.6	12,946	0.0	0	21.7	64,639
thru	Naknek	0.0	0	11.2	2,713	71.8	146,459	29.8	9,350	96.6	690	55.4	20,146	0.0	0	60.3	179,357
7/15	Egegik	0.0	0	2.4	589	8.0	16,319	23.3	7,310	0.4	3	6.2	2,246	100.0	714	9.1	27,181
	Ugashik	0.0	0	5.7	1,381	9.5	19,378	14.1	4,424	0.0	0	2.8	1,034	0.0	0	8.8	26,217
	Total	0.0	0	100.0	24,238	100.0	203,982	100.0	31,375	100.0	714	100.0	36,371	100.0	714	100.0	297,394
7/16	Kvichak	79.5	361	87.4	35,757	12.8	22,417	38.3	12,810	3.2	14	39.2	12,764	0.0	0	29.7	84,123
	Naknek	20.4	92	11.5	4,707	85.9	150,441	35.0	11,706	96.6	439	57.9	18,846	87.3	397	65.8	186,627
	Egegik	0.2	1	1.1	466	1.3	2,277	26.7	8,930	0.2	1	2.9	957	12.7	57	4.5	12,689
	Ugashik	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0
	Total	100.0	454	100.0	40,929	100.0	175,135	100.0	33,446	100.0	454	100.0	32,567	100.0	454	100.0	283,439
7/17[c]	Kvichak	0.0	0	88.5	76,367	12.2	39,868	38.3	43,091	0.0	0	43.0	27,131	0.0	0	31.6	186,458
thru	Naknek	0.0	0	9.4	8,099	82.1	268,291	35.0	39,379	0.0	0	51.1	32,277	0.0	0	59.0	348,046
8/27	Egegik	0.0	0	2.1	1,834	5.7	18,627	26.7	30,040	0.0	0	5.9	3,753	100.0	1,535	9.5	55,789
	Ugashik	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0
	Total	0.0	0	100.0	86,301	100.0	326,786	100.0	112,510	0.0	0	100.0	63,161	100.0	1,535	100.0	590,293
Total	Kvichak	80.8	27,071	86.5	1,397,619	12.0	668,359	35.6	487,512	3.1	599	39.9	747,454	34.6	3,774	31.8	3,332,388
	Naknek	18.6	6,226	10.4	167,349	80.6	4,476,980	32.4	444,335	96.7	18,426	53.8	1,009,162	3.7	397	58.5	6,122,875
	Egegik	0.3	102	1.9	31,000	3.7	205,914	28.4	389,452	0.2	39	5.4	100,598	61.7	6,720	7.0	733,827
	Ugashik	0.3	88	1.2	20,159	3.6	200,943	3.5	48,085	0.0	0	0.9	16,842	0.0	0	2.7	286,117
	Total	100.0	33,487	100.0	1,616,128	100.0	5,552,196	100.0	1,369,384	100.0	19,064	100.0	1,874,056	100.0	10,891	100.0	10,475,206

[a] Other includes ages-0.2, -0.4, -2.4, and -3.3.

[b] Scale samples were collected on 17, 19, and 30 June. Stock composition estimates calculated for these dates were applied to 10 through 30 June catches.

[c] Scale samples were collected on 17 and 18 July. Stock composition estimates calculated for these dates were applied to 17 July through 28 August catches.

Appendix C.10. Stock composition estimates of sockeye salmon catches by age group and date, Naknek-Kvichak District, 1992.

		1.2		1.3		2.2		1.4		2.3		2.4		Other[a]		Total	
Date	System	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number
6/09[b]	Kvichak	99.4	18,569	93.3	40,222	96.3	49,951	94.7	3,934	82.4	28,151	100.0	966	99.7	317	92.7	142,109
thru	Naknek	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0
6/26	Egegik	0.5	97	6.4	2,761	3.3	1,712	4.7	195	17.6	6,013	0.0	0	0.3	1	7.0	10,778
	Ugashik	0.1	17	0.3	132	0.4	207	0.6	25	0.0	0	0.0	0	0.0	0	0.2	382
	Total	100.0	18,683	100.0	43,115	100.0	51,870	100.0	4,154	100.0	34,164	100.0	966	100.0	318	100.0	153,270
6/27[c]	Kvichak	81.2	11,814	47.0	26,693	78.1	27,579	3.7	103	31.5	17,446	30.7	214	0.0	0	50.7	83,848
thru	Naknek	12.1	1,761	33.1	18,770	11.8	4,167	94.0	2,597	37.9	20,990	69.3	481	0.0	0	29.5	48,766
6/28	Egegik	1.1	162	8.4	4,782	2.8	989	0.5	13	19.2	10,634	0.0	0	0.0	0	10.0	16,580
	Ugashik	5.6	807	11.5	6,529	7.3	2,578	1.8	50	11.4	6,314	0.0	0	0.0	0	9.8	16,277
	Total	100.0	14,544	100.0	56,774	100.0	35,312	100.0	2,763	100.0	55,383	100.0	695	0.0	0	100.0	165,471
6/29[c]	Kvichak	91.6	20,626	68.6	23,576	97.7	47,118	8.4	461	31.5	10,461	51.0	147	98.2	284	71.1	102,675
	Naknek	5.8	1,309	20.5	7,058	2.3	1,109	89.8	4,927	37.9	12,587	49.0	142	0.0	0	18.8	27,131
	Egegik	0.5	121	5.3	1,812	0.0	0	0.5	26	19.2	6,377	0.0	0	0.7	2	5.8	8,337
	Ugashik	2.1	469	5.6	1,920	0.0	0	1.3	74	11.4	3,786	0.0	0	1.1	3	4.3	6,252
	Total	100.0	22,526	100.0	34,366	100.0	48,227	100.0	5,487	100.0	33,211	100.0	289	100.0	289	100.0	144,395
6/30	Kvichak	91.5	109,191	70.0	66,813	87.5	172,288	12.2	361	29.6	21,183	0.0	0	0.0	0	76.1	369,836
thru	Naknek	3.7	4,432	13.4	12,793	4.7	9,254	83.2	2,468	28.2	20,181	0.0	0	0.0	0	10.1	49,129
7/02	Egegik	0.5	582	4.9	4,659	7.8	15,358	0.6	18	5.7	4,079	0.0	0	0.0	0	5.1	24,696
	Ugashik	4.3	5,102	11.7	11,172	0.0	0	4.0	118	36.5	26,121	0.0	0	0.0	0	8.7	42,514
	Total	100.0	119,307	100.0	95,436	100.0	196,901	100.0	2,966	100.0	71,565	0.0	0	0.0	0	100.0	486,175
7/03[c]	Kvichak	60.6	18,842	24.6	18,049	61.0	38,587	1.0	71	6.7	6,321	10.4	219	8.9	189	30.1	82,278
	Naknek	34.4	10,688	65.9	48,296	38.5	24,354	98.3	6,740	75.4	71,131	89.6	1,883	57.1	1,210	60.2	164,302
	Egegik	0.5	169	2.9	2,114	0.5	316	0.1	6	7.7	7,264	0.0	0	23.6	500	3.8	10,370
	Ugashik	4.5	1,397	6.5	4,790	0.0	0	0.5	37	10.2	9,622	0.0	0	10.4	220	5.9	16,066
	Total	100.0	31,096	100.0	73,249	100.0	63,258	100.0	6,853	100.0	94,338	100.0	2,102	100.0	2,119	100.0	273,015

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Appendix C.10. (p 2 of 3).

		1.2		1.3		2.2		1.4		2.3		2.4		Other[a]		Total	
Date	System	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number
7/04	Kvichak	81.7	372,892	47.5	405,692	72.3	748,137	4.4	3,126	25.4	253,399	34.5	4,740	60.2	4,118	52.2	1,792,103
thru	Naknek	10.3	46,817	28.1	240,257	6.5	67,260	92.4	66,055	40.5	404,042	65.5	9,002	32.8	2,246	24.3	835,678
7/07	Egegik	1.4	6,441	10.7	91,709	13.4	138,659	0.7	509	18.8	187,555	0.0	0	5.1	351	12.4	425,223
	Ugashik	6.6	30,070	13.7	117,066	7.8	80,712	2.5	1,766	15.3	152,638	0.0	0	1.8	124	11.1	382,376
	Total	100.0	456,219	100.0	854,723	100.0	1,034,767	100.0	71,456	100.0	997,635	100.0	13,742	100.0	6,839	100.0	3,435,381
7/08[c]	Kvichak	71.4	68,972	30.0	104,611	51.7	152,266	2.1	569	14.1	59,289	19.7	1,317	13.1	299	32.4	387,322
thru	Naknek	19.3	18,626	38.2	133,253	10.6	31,219	95.6	25,857	43.5	182,911	80.3	5,382	71.2	1,618	33.3	398,866
7/09	Egegik	4.4	4,268	24.3	84,716	37.7	111,033	1.2	332	32.3	135,817	0.0	0	15.7	356	28.1	336,522
	Ugashik	5.0	4,792	7.5	26,009	0.0	0	1.0	277	10.1	42,469	0.0	0	0.0	0	6.1	73,547
	Total	100.0	96,657	100.0	348,589	100.0	294,518	100.0	27,035	100.0	420,486	100.0	6,699	100.0	2,273	100.0	1,196,257
7/10[c]	Kvichak	74.4	98,051	36.3	113,307	65.3	206,508	2.8	926	14.1	52,640	25.0	1,648	10.0	662	40.2	473,741
thru	Naknek	14.8	19,490	34.1	106,238	9.7	30,676	94.1	30,965	43.5	162,399	75.0	4,955	13.4	881	30.2	355,605
7/11	Egegik	2.3	3,060	14.8	46,284	10.1	31,941	0.8	272	32.3	120,586	0.0	0	64.5	4,251	17.5	206,395
	Ugashik	8.4	11,108	14.7	45,934	14.9	47,121	2.2	735	10.1	37,707	0.0	0	12.1	794	12.2	143,398
	Total	100.0	131,710	100.0	311,764	100.0	316,245	100.0	32,898	100.0	373,332	100.0	6,603	100.0	6,587	100.0	1,179,139
7/12	Kvichak	72.1	30,852	34.0	32,598	65.8	60,622	2.1	149	14.4	17,861	19.2	416	42.1	926	39.2	143,424
	Naknek	20.0	8,563	44.6	42,676	14.3	13,175	96.2	6,980	55.2	68,468	80.8	1,745	36.3	797	38.9	142,404
	Egegik	1.8	769	11.1	10,639	13.4	12,345	0.5	35	19.8	24,559	0.0	0	16.0	353	13.3	48,700
	Ugashik	6.1	2,604	10.3	9,844	6.5	5,988	1.2	88	10.6	13,148	0.0	0	5.6	123	8.7	31,795
	Total	100.0	42,787	100.0	95,757	100.0	92,130	100.0	7,253	100.0	124,037	100.0	2,161	100.0	2,199	100.0	366,324
7/13[c]	Kvichak	49.4	41,522	17.6	45,174	42.6	90,343	0.8	148	4.8	14,291	7.9	257	33.1	819	22.0	192,554
thru	Naknek	37.9	31,827	63.6	163,329	37.3	79,103	97.8	19,114	74.4	221,503	92.1	2,984	61.9	1,533	59.3	519,392
7/14	Egegik	0.8	670	3.7	9,543	8.7	18,450	0.1	23	4.5	13,397	0.0	0	1.7	42	4.8	42,125
	Ugashik	11.9	9,986	15.1	38,875	11.4	24,176	1.3	250	16.3	48,528	0.0	0	3.3	83	13.9	121,898
	Total	100.0	84,005	100.0	256,921	100.0	212,072	100.0	19,534	100.0	297,719	100.0	3,241	100.0	2,477	100.0	875,969

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Appendix C.10. (p 3 of 3).

		1.2		1.3		2.2		1.4		2.3		2.4		Other		Total	
Date	System	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number
7/15[d]	Kvichak	32.5	27,901	9.2	38,672	23.0	42,679	0.5	371	3.4	11,834	0.0	0	3.6	85	10.8	121,542
thru	Naknek	39.7	34,081	53.1	222,820	22.9	42,494	96.6	76,199	59.5	207,087	0.0	0	29.7	698	52.1	583,379
8/18	Egegik	3.5	3,041	13.1	55,159	23.8	44,164	0.5	381	19.5	67,869	0.0	0	40.9	962	15.3	171,575
	Ugashik	24.2	20,811	24.6	103,219	30.3	56,226	2.5	1,937	17.6	61,256	0.0	0	25.8	608	21.8	244,056
	Total	100.0	85,834	100.0	419,870	100.0	185,563	100.0	78,887	100.0	348,045	0.0	0	100.0	2,353	100.0	1,120,552
Total	Kvichak	74.2	819,230	35.3	915,407	64.6	1,636,077	3.9	10,220	17.3	492,875	27.2	9,925	30.2	7,700	41.4	3,891,433
	Naknek	16.1	177,594	38.4	995,489	12.0	302,811	93.3	241,902	48.1	1,371,300	72.8	26,573	35.3	8,983	33.3	3,124,652
	Egegik	1.8	19,379	12.1	314,178	14.8	374,968	0.7	1,810	20.5	584,150	0.0	0	26.8	6,817	13.8	1,301,302
	Ugashik	7.9	87,165	14.1	365,490	8.6	217,008	2.1	5,355	14.1	401,589	0.0	0	7.7	1,954	11.5	1,078,561
	Total	100.0	1,103,368	100.0	2,590,564	100.0	2,530,863	100.0	259,286	100.0	2,849,915	100.0	36,498	100.0	25,454	100.0	9,395,948

[a] Other includes ages-0.2, -1.1, -0.3, -2.1, -0.4, -3.2, and -3.3.

[b] Scale samples were collected on 18, 19, and 23 June. Stock composition estimates calculated for these dates were applied to 9 through 26 June catches.

[c] Naknek Section only openings.

[d] Scale samples were collected on 15 and 19 July. Stock composition estimates calculated for these dates were applied to 15 July through 18 August catches.

Appendix C.11. Stock composition estimates of sockeye salmon catches by age group and date, Naknek-Kvichak District, 1993.

		1.2		1.3		2.2		1.4		2.3		2.4		Other[a]		Total	
Date	River	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number
6/09[b]	Kvichak	91.0	56,531	75.9	168,683	72.2	156,974	6.5	318	36.2	115,412	0.0	0	0.0	0	60.0	497,917
thru	Naknek	7.9	4,906	19.9	44,316	1.9	4,131	74.3	3,640	37.3	118,919	81.5	3,992	0.0	0	21.7	179,903
6/23	Egegik	1.1	682	4.2	9,317	25.9	56,311	19.2	943	26.5	84,487	18.5	908	0.0	0	18.4	152,648
	Ugashik	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0
	Total	100.0	62,119	100.0	222,316	100.0	217,416	100.0	4,900	100.0	318,817	100.0	4,900	0.0	0	100.0	830,468
6/24[c]	Kvichak	70.3	21,800	42.5	29,812	37.0	41,700	1.6	26	10.8	22,754	0.0	0	0.0	0	27.1	116,092
thru	Naknek	26.3	8,169	48.2	33,819	5.0	5,635	79.4	1,290	57.0	120,092	82.6	1,343	0.0	0	39.8	170,349
6/26	Egegik	3.4	1,052	9.4	6,584	58.0	65,368	19.0	310	32.2	67,842	17.4	283	0.0	0	33.1	141,438
	Ugashik	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0
	Total	100.0	31,021	100.0	70,215	100.0	112,703	100.0	1,626	100.0	210,688	100.0	1,626	0.0	0	100.0	427,879
6/27	Kvichak	58.0	33,510	35.6	34,895	62.8	59,178	1.3	83	5.0	9,674	0.0	0	0.0	0	30.4	137,340
	Naknek	32.3	18,702	60.1	58,953	28.9	27,233	97.5	6,130	89.3	172,785	97.1	2,458	0.0	0	63.3	286,261
	Egegik	0.1	29	0.1	138	2.7	2,544	0.3	18	0.0	0	0.2	6	0.0	0	0.6	2,735
	Ugashik	9.6	5,574	4.1	4,046	5.6	5,277	0.9	58	5.7	11,029	2.7	68	0.0	0	5.8	26,052
	Total	100.0	57,815	100.0	98,032	100.0	94,232	100.0	6,288	100.0	193,488	100.0	2,533	0.0	0	100.0	452,388
6/28[c]	Kvichak	73.7	76,952	55.8	125,051	76.5	248,947	3.1	473	12.0	53,412	0.0	0	0.0	0	45.1	504,835
thru	Naknek	16.6	17,362	38.1	85,412	11.6	37,749	91.9	14,103	71.3	317,357	92.1	5,679	0.0	0	42.6	477,662
6/29	Egegik	0.3	347	1.2	2,579	7.4	24,081	3.4	525	7.7	34,273	3.0	185	0.0	0	5.5	61,990
	Ugashik	9.4	9,778	4.9	11,078	4.5	14,644	1.6	250	9.0	40,059	4.8	299	0.0	0	6.8	76,108
	Total	100.0	104,439	100.0	224,119	100.0	325,421	100.0	15,352	100.0	445,101	100.0	6,163	0.0	0	100.0	1,120,595
6/30[c]	Kvichak	78.4	130,228	60.7	100,746	56.5	254,563	0.0	0	4.6	11,820	0.0	0	96.0	7,644	48.2	505,002
thru	Naknek	13.4	22,272	31.4	52,160	18.7	84,254	0.0	0	59.5	152,895	0.0	0	0.0	0	29.7	311,581
7/01	Egegik	1.2	1,943	4.1	6,879	20.1	90,561	0.0	0	31.0	79,659	0.0	0	0.0	0	17.1	179,043
	Ugashik	7.0	11,594	3.8	6,253	4.7	21,176	0.0	0	4.9	12,591	0.0	0	4.0	318	5.0	51,932
	Total	100.0	166,038	100.0	166,038	100.0	450,554	0.0	0	100.0	256,966	0.0	0	100.0	7,962	100.0	1,047,558

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Appendix C.11. (p 2 of 3).

		1.2		1.3		2.2		1.4		2.3		2.4		Other[a]		Total	
Date	River	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number
7/02	Kvichak	84.0	369,270	63.2	363,353	72.1	401,505	3.8	268	8.0	26,390	0.0	0	0.0	0	60.6	1,160,785
	Naknek	15.9	69,794	36.2	207,898	21.1	117,500	94.3	6,683	92.0	303,480	98.2	3,576	0.0	0	37.0	708,932
	Egegik	0.2	763	0.6	3,436	6.8	37,867	1.9	136	0.0	0	1.8	64	100.0	3,640	2.4	45,907
	Ugashik	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0
	Total	100.0	439,827	100.0	574,687	100.0	556,872	100.0	7,087	100.0	329,870	100.0	3,640	100.0	3,640	100.0	1,915,623
7/04[c]	Kvichak	57.5	113,078	43.2	77,419	48.2	185,344	2.1	30	3.6	12,400	0.0	0	0.0	0	35.0	388,271
thru	Naknek	18.9	37,139	42.9	76,975	24.5	94,210	89.7	1,295	70.8	243,859	0.0	0	0.0	0	40.8	453,477
7/05	Egegik	0.5	1,073	1.9	3,361	11.4	43,837	4.8	70	10.6	36,510	0.0	0	100.0	4,332	8.0	89,182
	Ugashik	23.0	45,306	12.1	21,625	15.9	61,140	3.4	50	15.0	51,665	0.0	0	0.0	0	16.2	179,786
	Total	100.0	196,596	100.0	179,380	100.0	384,531	100.0	1,444	100.0	344,433	0.0	0	100.0	4,332	100.0	1,110,716
7/06[c]	Kvichak	58.4	110,079	35.7	65,039	44.8	89,712	1.3	44	3.4	8,458	0.0	0	0.0	0	33.0	273,332
thru	Naknek	31.3	59,099	58.1	105,705	29.3	58,673	93.6	3,100	86.7	215,676	93.7	3,102	0.0	0	53.8	445,356
7/07	Egegik	0.7	1,404	2.1	3,798	20.7	41,452	4.1	137	4.9	12,189	3.6	121	100.0	1,656	7.3	60,757
	Ugashik	9.5	17,996	4.1	7,413	5.2	10,413	0.9	30	5.0	12,438	2.7	88	0.0	0	5.8	48,378
	Total	100.0	188,578	100.0	181,955	100.0	200,250	100.0	3,311	100.0	248,761	100.0	3,311	100.0	1,656	100.0	827,822
7/08[c]	Kvichak	66.3	61,011	46.4	48,657	56.0	105,402	2.1	160	4.8	8,672	0.0	0	0.0	1,935	39.2	225,837
thru	Naknek	22.2	20,428	47.0	49,318	25.0	47,054	93.3	7,052	84.0	151,758	0.0	0	0.0	103	47.8	275,712
7/09	Egegik	0.4	361	1.3	1,318	12.0	22,586	3.1	232	3.5	6,323	0.0	0	100.0	1,186	5.6	32,006
	Ugashik	11.1	10,175	5.4	5,657	7.0	13,175	1.5	111	7.7	13,911	0.0	0	0.0	64	7.5	43,093
	Total	100.0	91,975	100.0	104,950	100.0	188,217	100.0	7,554	100.0	180,664	0.0	0	100.0	3,288	100.0	576,648
7/10[c]	Kvichak	60.1	24,901	33.7	14,699	51.5	48,782	1.2	44	3.2	3,051	0.0	0	0.0	0	32.7	91,477
thru	Naknek	37.7	15,633	64.1	27,935	36.2	34,290	95.8	3,618	87.9	83,747	97.0	516	0.0	0	59.2	165,738
7/11	Egegik	0.6	258	1.6	697	11.4	10,798	2.9	111	8.1	7,747	2.6	14	100.0	532	7.2	20,158
	Ugashik	1.6	651	0.6	268	0.9	853	0.1	5	0.7	682	0.4	2	0.0	0	0.9	2,460
	Total	100.0	41,443	100.0	43,598	100.0	94,723	100.0	3,778	100.0	95,227	100.0	532	100.0	532	100.0	279,833

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Appendix C.11. (p 3 of 3).

		1.2		1.3		2.2		1.4		2.3		2.4		Other[a]		Total	
Date	River	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number
7/12[c]	Kvichak	46.5	10,584	22.6	10,604	39.0	24,198	0.7	30	1.9	1,915	0.0	0	40.5	728	20.0	48,059
thru	Naknek	51.1	11,634	75.3	35,285	48.0	29,783	96.9	4,319	90.8	92,041	97.6	445	6.0	108	72.4	173,615
7/14	Egegik	0.7	152	1.5	699	12.0	7,446	2.4	105	6.7	6,759	2.1	10	53.2	957	6.7	16,128
	Ugashik	1.8	406	0.6	284	1.0	620	0.1	5	0.6	628	0.3	1	0.3	5	0.8	1,949
	Total	100.0	22,776	100.0	46,871	100.0	62,047	100.0	4,459	100.0	101,343	100.0	456	100.0	1,799	100.0	239,751
7/16[d]	Kvichak	1.2	71	0.5	48	1.2	158	0.0	0	0.0	16	0.0	0	3.5	9	0.4	302
thru	Naknek	77.2	4,505	93.5	9,098	84.7	11,130	99.1	2,127	94.8	44,302	97.5	743	77.4	195	91.7	72,100
8/06	Egegik	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0
	Ugashik	21.5	1,256	6.0	584	14.1	1,853	0.9	19	5.2	2,414	2.5	19	19.1	48	7.9	6,193
	Total	100.0	5,832	100.0	9,730	100.0	13,141	100.0	2,146	100.0	46,732	100.0	762	100.0	252	100.0	78,595
Total	Kvichak	71.6	1,008,016	54.1	1,039,004	59.9	1,616,463	2.5	1,475	9.9	273,974	0.0	0	44.0	10,316	44.3	3,949,248
	Naknek	20.6	289,643	40.9	786,874	20.4	551,642	92.1	53,357	72.8	2,016,910	91.4	21,855	1.7	407	41.8	3,720,686
	Egegik	0.6	8,065	2.0	38,806	14.9	402,851	4.5	2,587	12.1	335,789	6.6	1,590	52.4	12,303	9.0	801,991
	Ugashik	7.3	102,736	3.0	57,207	4.8	129,151	0.9	527	5.2	145,417	2.0	478	1.9	435	4.9	435,951
	Total	100.0	1,408,459	100.0	1,921,891	100.0	2,700,107	100.0	57,945	100.0	2,772,090	100.0	23,923	100.0	23,461	100.0	8,907,876

[a] Other includes ages-1.1, -0.3, -2.1, -3.2, and -3.3.

[b] Scale samples were collected on 22 June. Stock composition estimates calculated for this date were applied to 9 through 23 June catches.

[c] Naknek Section only openings.

[d] Reduced Naknek Section only openings occurred on 16 and 18 July. Scale samples collected on these dates were used to produce stock composition estimates that were applied to 16 July through 6 August catches.

Appendix C.12. Stock compostion estimates of sockeye salmon catches by age group and date, Naknek-Kvichak District, 1994.

		1.2		1.3		2.2		1.4		2.3		3.2		Other[a]		Total	
Date	System	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number
6/09[b]	Kvichak	93.1	3,395	86.5	10,407	98.3	23,656	0.0	0	78.6	4,299	0.0	0	100.0	365	92.4	42,122
thru	Naknek	6.9	251	13.5	1,625	1.7	409	0.0	0	21.4	1,170	0.0	0	0.0	0	7.6	3,455
6/30	Egegik	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0
	Ugashik	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0
	Total	100.0	3,646	100.0	12,032	100.0	24,065	0.0	0	100.0	5,469	0.0	0	100.0	365	100.0	45,577
7/01[c]	Kvichak	62.3	29,174	46.8	53,357	84.7	453,593	9.1	134	28.1	25,073	0.0	0	36.6	2,144	70.9	563,476
thru	Naknek	31.1	14,565	49.3	56,320	9.9	53,017	90.9	1,329	51.6	46,100	0.0	0	55.7	3,262	22.0	174,594
7/02	Egegik	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0
	Ugashik	6.6	3,083	3.9	4,451	5.4	28,919	0.0	0	20.3	18,082	100.0	1,463	7.6	446	7.1	56,443
	Total	100.0	46,822	100.0	114,128	100.0	535,529	100.0	1,463	100.0	89,255	100.0	1,463	100.0	5,852	100.0	794,512
7/03[c]	Kvichak	62.3	27,440	46.8	41,768	84.7	374,080	9.1	460	28.1	24,743	0.0	0	0.0	0	70.1	468,491
	Naknek	31.1	13,700	49.3	44,086	9.9	43,724	90.9	4,574	51.6	45,492	0.0	0	0.0	0	22.7	151,576
	Egegik	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0
	Ugashik	6.6	2,900	3.9	3,484	5.4	23,849	0.0	0	20.3	17,844	0.0	0	0.0	0	7.2	48,076
	Total	100.0	44,039	100.0	89,338	100.0	441,653	100.0	5,034	100.0	88,079	0.0	0	0.0	0	100.0	668,143
7/04	Kvichak	100.0	29,427	100.0	35,902	100.0	241,894	100.0	1,177	100.0	11,771	0.0	0	100.0	589	100.0	320,760
	Naknek	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0
	Egegik	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0
	Ugashik	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0
	Total	100.0	29,427	100.0	35,902	100.0	241,894	100.0	1,177	100.0	11,771	0.0	0	100.0	589	100.0	320,760
7/05[c]	Kvichak	100.0	48,072	100.0	115,939	100.0	542,935	100.0	2,828	100.0	74,936	0.0	0	0.0	0	100.0	784,710
	Naknek	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0
	Egegik	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0
	Ugashik	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0
	Total	100.0	48,072	100.0	115,939	100.0	542,935	100.0	2,828	100.0	74,936	0.0	0	0.0	0	100.0	784,710

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Appendix C.12. (p 2 of 4).

		1.2		1.3		2.2		1.4		2.3		3.2		Other[a]		Total	
Date	System	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number
7/06	Kvichak	93.9	149,200	95.1	433,313	96.2	1,977,852	0.0	0	69.1	54,937	0.0	0	22.3	1,184	95.0	2,616,486
thru	Naknek	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0
7/07	Egegik	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0
	Ugashik	6.1	9,768	4.9	22,394	3.8	78,127	0.0	0	30.9	24,547	0.0	0	77.7	4,115	5.0	138,951
	Total	100.0	158,968	100.0	455,707	100.0	2,055,979	0.0	0	100.0	79,484	0.0	0	100.0	5,299	100.0	2,755,437
7/08	Kvichak	53.4	39,081	38.3	61,723	78.7	1,264,014	6.7	659	20.9	9,191	0.0	0	0.0	0	72.6	1,374,668
	Naknek	37.1	27,150	56.3	90,656	12.8	205,583	93.3	9,105	53.5	23,515	0.0	0	0.0	0	18.8	356,010
	Egegik	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0
	Ugashik	9.6	6,996	5.4	8,722	8.5	136,520	0.0	0	25.6	11,229	0.0	0	0.0	0	8.6	163,467
	Total	100.0	73,227	100.0	161,100	100.0	1,606,117	100.0	9,764	100.0	43,936	0.0	0	0.0	0	100.0	1,894,144
7/09	Kvichak	55.5	47,448	37.9	77,876	83.0	805,156	6.2	457	24.4	11,325	0.0	0	41.5	2,028	71.4	944,290
	Naknek	42.0	35,895	60.7	124,554	14.7	142,600	93.8	6,873	68.0	31,551	0.0	0	55.3	2,703	26.0	344,176
	Egegik	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0
	Ugashik	2.5	2,179	1.4	2,823	2.3	22,312	0.0	0	7.6	3,550	100.0	2,443	3.2	155	2.5	33,462
	Total	100.0	85,522	100.0	205,253	100.0	970,068	100.0	7,330	100.0	46,426	100.0	2,443	100.0	4,886	100.0	1,321,928
7/10	Kvichak	55.5	55,996	37.9	63,824	83.0	855,661	6.2	150	24.4	15,241	0.0	0	0.0	0	72.6	990,871
	Naknek	42.0	42,361	60.7	102,079	14.7	151,545	93.8	2,253	68.0	42,461	0.0	0	0.0	0	25.0	340,700
	Egegik	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0
	Ugashik	2.5	2,572	1.4	2,314	2.3	23,711	0.0	0	7.6	4,777	0.0	0	0.0	0	2.4	33,374
	Total	100.0	100,929	100.0	168,216	100.0	1,030,917	100.0	2,403	100.0	62,480	0.0	0	0.0	0	100.0	1,364,945
7/11[d]	Kvichak	62.8	46,506	44.3	40,692	87.8	694,057	0.0	0	31.4	3,323	0.0	0	0.0	0	81.1	784,579
	Naknek	37.2	27,603	55.7	51,062	12.2	96,441	0.0	0	68.6	7,264	0.0	0	0.0	0	18.9	182,369
	Egegik	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0
	Ugashik	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0
	Total	100.0	74,109	100.0	91,754	100.0	790,498	0.0	0	100.0	10,587	0.0	0	0.0	0	100.0	966,948

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Appendix C.12. (p 3 of 4).

		1.2		1.3		2.2		1.4		2.3		3.2		Other[a]		Total	
Date	System	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number
7/12	Kvichak	52.7	52,857	38.9	94,241	76.8	998,331	0.0	0	19.6	12,504	0.0	0	0.0	0	67.9	1,157,933
thru	Naknek	34.3	34,395	53.5	129,652	11.7	152,089	0.0	0	47.1	29,966	0.0	0	0.0	0	20.3	346,103
7/14	Egegik	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0
	Ugashik	13.1	13,118	7.6	18,463	11.5	149,490	0.0	0	33.3	21,180	0.0	0	0.0	0	11.9	202,250
	Total	100.0	100,370	100.0	242,356	100.0	1,299,910	0.0	0	100.0	63,650	0.0	0	0.0	0	100.0	1,706,286
7/15	Kvichak	51.6	16,637	33.5	44,220	82.0	466,204	0.0	0	22.5	10,859	82.0	2,403	66.7	2,930	68.9	543,254
	Naknek	48.4	15,600	66.5	87,658	18.0	102,338	0.0	0	77.5	37,496	18.0	528	33.3	1,465	31.1	245,084
	Egegik	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0
	Ugashik	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0
	Total	100.0	32,237	100.0	131,878	100.0	568,542	0.0	0	100.0	48,355	100.0	2,931	100.0	4,395	100.0	788,338
7/16	Kvichak	44.6	45,966	29.5	43,407	73.7	867,467	0.0	0	16.3	7,500	0.0	0	39.7	2,924	65.3	967,264
thru	Naknek	47.5	49,019	66.4	97,864	18.4	216,573	0.0	0	64.0	29,455	0.0	0	55.2	4,065	26.8	396,976
7/17	Egegik	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0
	Ugashik	7.9	8,166	4.1	6,087	7.9	92,985	0.0	0	19.7	9,094	100.0	0	5.1	379	7.9	116,712
	Total	100.0	103,151	100.0	147,358	100.0	1,177,025	0.0	0	100.0	46,050	100.0	0	100.0	7,368	100.0	1,480,952
7/18	Kvichak	44.6	12,328	29.5	21,052	73.7	355,115	96.6	2,226	99.1	31,995	99.8	0	0.0	0	68.7	422,717
thru	Naknek	47.5	13,147	66.4	47,464	18.4	88,658	3.4	78	0.9	280	0.2	0	0.0	0	24.3	149,628
7/19	Egegik	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0
	Ugashik	7.9	2,190	4.1	2,952	7.9	38,065	0.0	0	0.0	1	0.0	0	0.0	0	7.0	43,209
	Total	100.0	27,665	100.0	71,469	100.0	481,839	100.0	2,305	100.0	32,276	100.0	0	0.0	0	100.0	615,554
7/20[a]	Kvichak	44.6	28,494	29.5	40,239	73.7	379,147	4.5	131	16.3	15,148	0.0	0	100.0	2,906	56.9	466,065
thru	Naknek	47.5	30,386	66.4	90,722	18.4	94,658	95.5	2,775	64.0	59,491	0.0	0	0.0	0	33.9	278,032
8/15	Egegik	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0
	Ugashik	7.9	5,062	4.1	5,643	7.9	40,641	0.0	0	19.7	18,368	100.0	5,813	0.0	0	9.2	75,527
	Total	100.0	63,942	100.0	136,604	100.0	514,446	100.0	2,906	100.0	93,007	100.0	5,813	100.0	2,906	100.0	819,624

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Appendix C.12. (p 4 of 4).

		1.2		1.3		2.2		1.4		2.3		3.2		Other[a]		Total	
Date	System	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number
Total	Kvichak	63.7	632,020	54.1	1,177,960	83.9	10,299,164	23.3	8,221	39.3	312,848	19.0	2,403	47.6	15,070	76.2	12,447,685
	Naknek	30.6	304,072	42.4	923,741	11.0	1,347,635	76.6	26,988	44.5	354,242	4.2	528	36.3	11,495	18.2	2,968,701
	Egegik	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0
	Ugashik	5.6	56,034	3.5	77,333	5.2	634,619	0.0	0	16.2	128,672	76.8	9,719	16.1	5,095	5.6	911,472
	Total	100.0	992,126	100.0	2,179,034	100.0	12,281,417	100.0	35,210	100.0	795,761	100.0	12,650	100.0	31,660	100.0	16,327,858

[a] Other includes age-1.1, -0.3, -2.1, -0.4, -2.4, and -3.3.

[b] Scale samples were collected on 22 June. Stock composition estimates calculated for this date were applied to 9 through 30 June catches.

[c] Naknek Section only openings.

[d] Kvichak Section only openings.

[e] Scale samples were collected on 20 July. Stock composition estimates calculated for these dates were applied to 20 July through 15 August catches.

Appendix C.13. Stock composition estimates of sockeye salmon catches by age group and date, Naknek-Kvichak District, 1995.

		1.2		1.3		2.2		2.3		3.2		3.3		Other [a]		Total	
Date	System	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number
6/06 [b]	Kvichak	58.2	7,058	21.2	8,326	81.4	79,224	60.8	23,235	0.0	0	60.8	125	60.8	125	63.0	118,093
thru	Naknek	41.8	5,064	78.8	30,915	18.6	18,160	39.2	14,979	0.0	0	39.2	80	39.2	80	37.0	69,278
6/24	Total	100.0	12,122	100.0	39,241	100.0	97,384	100.0	38,214	0.0	0	100.0	205	100.0	205	100.0	187,371
6/25 [c]	Kvichak	76.1	18,004	38.1	10,673	90.9	209,314	78.0	38,355	65.2	1,218	0.0	0	0.0	0	83.4	277,564
thru	Naknek	23.9	5,649	61.9	17,337	9.1	20,990	22.0	10,818	34.8	649	0.0	0	0.0	0	16.6	55,443
6/26	Total	100.0	23,653	100.0	28,010	100.0	230,304	100.0	49,173	100.0	1,867	0.0	0	0.0	0	100.0	333,007
	Kvichak	95.8	75,719	81.5	59,685	98.6	770,000	96.2	120,554	0.0	0	0.0	0	0.0	0	96.9	1,025,958
6/27	Naknek	4.2	3,327	18.5	13,577	1.4	10,814	3.8	4,762	0.0	0	0.0	0	0.0	0	3.1	32,480
	Total	100.0	79,046	100.0	73,262	100.0	780,814	100.0	125,316	0.0	0	0.0	0	0.0	0	100.0	1,058,438
6/28	Kvichak	44.2	54,834	13.3	23,311	71.2	659,581	46.8	102,911	0.0	0	0.0	0	0.0	0	58.1	840,637
thru	Naknek	55.8	69,342	86.7	152,605	28.8	266,567	53.2	116,984	0.0	0	0.0	0	0.0	0	41.9	605,498
6/29	Total	100.0	124,176	100.0	175,916	100.0	926,148	100.0	219,895	0.0	0	0.0	0	0.0	0	100.0	1,446,135
6/30	Kvichak	81.4	232,668	45.9	98,310	93.2	1,994,161	83.0	223,645	0.0	0	0.0	0	0.0	0	87.6	2,548,784
thru	Naknek	18.6	53,015	54.1	115,952	6.8	145,214	17.0	45,806	0.0	0	0.0	0	0.0	0	12.4	359,987
7/02	Total	100.0	285,683	100.0	214,262	100.0	2,139,375	100.0	269,451	0.0	0	0.0	0	0.0	0	100.0	2,908,771
7/03 [d]	Kvichak	54.5	95,623	18.8	42,047	78.9	1,170,419	57.1	103,692	0.0	0	0.0	0	0.0	0	68.4	1,411,781
thru	Naknek	45.5	79,922	81.2	181,924	21.1	312,633	42.9	77,906	0.0	0	0.0	0	0.0	0	31.6	652,385
7/05	Total	100.0	175,545	100.0	223,971	100.0	1,483,052	100.0	181,598	0.0	0	0.0	0	0.0	0	100.0	2,064,166
7/06	Kvichak	86.9	236,632	56.2	120,623	95.4	1,788,504	88.1	336,080	79.7	1,642	88.1	1,816	88.1	1,816	90.5	2,487,113
thru	Naknek	13.1	35,557	43.8	93,829	4.6	85,888	11.9	45,396	20.3	420	11.9	246	11.9	246	9.5	261,582
7/07	Total	100.0	272,189	100.0	214,452	100.0	1,874,392	100.0	381,476	100.0	2,062	100.0	2,062	100.0	2,062	100.0	2,748,695

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Appendix C.13. (p 2 of 2).

		1.2		1.3		2.2		2.3		3.2		3.3		Other [a]		Total	
Date	System	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number
7/08	Kvichak	81.3	300,494	45.7	91,981	93.2	1,368,425	82.9	241,532	71.9	2,161	0.0	0	0.0	0	85.9	2,004,593
thru	Naknek	18.7	68,954	54.3	109,263	6.8	100,355	17.1	49,821	28.1	843	0.0	0	0.0	0	14.1	329,236
7/09	Total	100.0	369,448	100.0	201,244	100.0	1,468,780	100.0	291,353	100.0	3,004	0.0	0	0.0	0	100.0	2,333,829
7/10	Kvichak	70.3	264,685	31.4	69,085	88.1	1,413,012	72.5	222,908	58.2	1,544	72.5	1,922	0.0	0	78.5	1,973,156
thru	Naknek	29.7	111,689	68.6	150,908	11.9	190,552	27.5	84,552	41.8	1,107	27.5	729	0.0	0	21.5	539,537
7/11	Total	100.0	376,374	100.0	219,993	100.0	1,603,564	100.0	307,460	100.0	2,651	100.0	2,651	0.0	0	100.0	2,512,693
7/12	Kvichak	85.9	276,840	54.0	96,268	95.0	1,433,845	87.1	307,745	0.0	0	0.0	0	0.0	0	89.5	2,114,698
thru	Naknek	14.1	45,612	46.0	82,109	5.0	75,500	12.9	45,579	0.0	0	0.0	0	0.0	0	10.5	248,800
7/14	Total	100.0	322,452	100.0	178,377	100.0	1,509,345	100.0	353,324	0.0	0	0.0	0	0.0	0	100.0	2,363,498
7/15 [e]	Kvichak	47.8	115,753	15.0	43,698	74.2	1,059,751	50.5	182,575	0.0	0	0.0	0	0.0	0	60.3	1,401,777
thru	Naknek	52.2	126,220	85.0	246,669	25.8	369,310	49.5	178,960	0.0	0	0.0	0	0.0	0	39.7	921,159
8/04	Total	100.0	241,973	100.0	290,367	100.0	1,429,061	100.0	361,535	0.0	0	0.0	0	0.0	0	100.0	2,322,936
Total	Kvichak	73.5	1,678,310	35.7	664,007	88.2	11,946,236	73.8	1,903,232	68.5	6,565	78.6	3,863	85.6	1,941	79.9	16,204,154
	Naknek	26.5	604,351	64.3	1,195,088	11.8	1,595,983	26.2	675,563	31.5	3,019	21.4	1,055	14.4	326	20.1	4,075,385
	Total	100.0	2,282,661	100.0	1,859,095	100.0	13,542,219	100.0	2,578,795	100.0	9,584	100.0	4,918	100.0	2,267	100.0	20,279,539

[a] Other includes ages-0.4 and -1.4.

[b] Scale samples were collected on 20, 21, and 23 June. Stock composition estimates calculated for these dates were applied to 6 through 24 June catches.

[c] Naknek Section only openings.

[d] Kvichak Section setnet and Naknek Section only openings.

[e] Scale samples were collected on 16 and 17 July. Stock composition estimates calculated for these dates were applied to 15 July through 4 August catches.

Appendix D: Egegik District Stock Composition, 1983 - 1995

Appendix D.1. Stock composition estimates of sockeye salmon catches by age group and date, Egegik District, 1983.

		1.2		2.1		1.3		2.2		1.4		2.3		3.2		Total	
Date	System	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number
6/07[a]	Kvichak	36.6	71,040	0.0	0	3.4	4,683	0.1	1,313	0.0	0	0.3	562	0.0	0	4.1	77,598
thru	Naknek	7.2	13,975	0.0	0	40.7	55,293	6.5	85,319	59.5	2,887	7.3	15,436	0.0	0	9.2	172,910
6/30	Egegik	50.1	97,244	0.0	0	55.1	74,801	93.4	1,225,965	40.5	1,963	92.2	194,514	100.0	19,410	86.0	1,613,896
	Ugashik	6.1	11,840	0.0	0	0.8	1,092	0.0	0	0.0	2	0.3	571	0.0	0	0.7	13,506
	Total	100.0	194,099	0.0	0	100.0	135,869	100.0	1,312,596	100.0	4,852	100.0	211,083	100.0	19,410	100.0	1,877,909
7/01	Kvichak	36.6	68,452	21.9	642	2.8	3,876	0.1	1,603	0.0	0	0.2	352	0.0	0	3.5	74,926
thru	Naknek	7.2	13,466	12.7	374	40.2	55,249	6.4	102,589	59.0	2,219	7.2	11,676	0.0	0	8.8	185,574
7/05	Egegik	50.1	93,701	61.4	1,803	55.3	76,108	92.4	1,481,133	40.9	1,536	92.1	149,825	100.0	15,033	86.2	1,819,140
	Ugashik	6.1	11,409	3.9	116	1.7	2,290	1.1	17,633	0.1	4	0.6	906	0.0	0	1.5	32,357
	Total	100.0	187,028	100.0	2,935	100.0	137,524	100.0	1,602,958	100.0	3,759	100.0	162,760	100.0	15,033	100.0	2,111,997
7/06	Kvichak	28.2	48,195	14.6	674	1.6	2,065	0.0	0	0.0	0	0.1	157	0.0	0	2.4	51,090
thru	Naknek	7.0	11,963	18.8	872	50.4	65,492	9.8	165,700	68.6	1,781	10.5	11,561	0.0	0	12.1	257,369
7/12	Egegik	37.8	64,602	59.7	2,764	45.6	59,237	89.8	1,518,349	31.2	810	88.4	97,400	100.0	10,659	82.8	1,753,820
	Ugashik	27.0	46,144	6.9	321	2.5	3,231	0.4	6,763	0.1	4	1.0	1,068	0.0	0	2.7	57,531
	Total	100.0	170,904	100.0	4,631	100.0	130,025	100.0	1,690,812	100.0	2,594	100.0	110,185	100.0	10,659	100.0	2,119,810
7/13[b]	Kvichak	28.2	19,924	0.0	0	2.0	978	0.0	0	0.0	0	0.2	74	0.0	0	3.2	20,975
thru	Naknek	7.0	4,946	0.0	0	56.3	27,775	12.6	60,851	74.1	718	13.3	4,877	0.0	0	15.4	99,167
8/12	Egegik	37.8	26,706	0.0	0	38.8	19,171	87.1	420,646	25.7	249	85.3	31,354	100.0	4,839	77.9	502,965
	Ugashik	27.0	19,076	0.0	0	2.9	1,435	0.3	1,449	0.2	2	1.3	472	0.0	0	3.5	22,433
	Total	100.0	70,651	0.0	0	100.0	49,359	100.0	482,946	100.0	968	100.0	36,777	100.0	4,839	100.0	645,540
Total	Kvichak	33.3	207,611	17.4	1,316	2.6	11,602	0.1	2,916	0.0	0	0.2	1,145	0.0	0	3.3	224,589
	Naknek	7.1	44,350	16.5	1,246	45.0	203,810	8.1	414,459	62.5	7,604	8.4	43,550	0.0	0	10.6	715,019
	Egegik	45.4	282,252	60.3	4,567	50.6	229,316	91.3	4,646,093	37.4	4,558	90.8	473,093	100.0	49,941	84.2	5,689,821
	Ugashik	14.2	88,469	5.8	436	1.8	8,049	0.5	25,845	0.1	11	0.6	3,017	0.0	0	1.9	125,827
	Total	100.0	622,682	100.0	7,566	100.0	452,777	100.0	5,089,312	100.0	12,173	100.0	520,805	100.0	49,941	100.0	6,755,256

[a] Scale samples were collected from 20 through 30 June. Stock composition estimates calculated from those dates were applied to 7 through 30 June catches.

[b] Scale samples were collected from 13 through 19 July. Stock composition estimates calculated from those dates were applied to 13 July through 12 August catches.

Appendix D.2. Stock composition estimates of sockeye salmon catches by age group and date, Egegik District, 1984.

		0.3		1.2		1.3		2.2		2.3		3.2		Other[a]		Total	
Date	System	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number
5/28[b]	Kvichak	0.0	0	18.6	45,179	23.3	35,101	30.6	238,254	2.7	16,707	0.0	0	5.5	665	18.5	335,907
thru	Naknek	0.0	0	14.4	34,875	36.0	54,107	4.2	32,702	6.0	37,029	0.0	0	8.9	1,075	8.8	159,787
6/30	Egegik	100.0	6,020	56.7	137,684	28.6	43,055	59.3	461,715	89.7	548,828	97.3	9,765	82.6	9,938	67.2	1,217,005
	Ugashik	0.0	0	10.3	25,074	12.1	18,242	5.9	45,938	1.5	9,486	2.7	269	3.0	363	5.5	99,371
	Total	100.0	6,020	100.0	242,813	100.0	150,504	100.0	778,608	100.0	612,049	100.0	10,034	100.0	12,041	100.0	1,812,069
7/01	Kvichak	0.0	0	16.9	17,873	23.4	15,326	27.4	92,944	2.4	6,341	0.0	0	4.9	258	16.8	132,742
thru	Naknek	0.0	0	9.4	9,905	25.9	16,960	2.7	9,159	3.8	10,089	0.0	0	5.7	298	5.9	46,411
7/02	Egegik	100.0	2,623	60.6	64,112	33.7	22,127	62.5	212,007	91.9	245,175	96.8	4,232	85.7	4,497	70.3	554,774
	Ugashik	0.0	0	13.1	13,894	17.0	11,156	7.4	25,102	1.9	5,043	3.2	139	3.7	192	7.0	55,525
	Total	100.0	2,623	100.0	105,785	100.0	65,569	100.0	339,211	100.0	266,648	100.0	4,371	100.0	5,245	100.0	789,452
7/07	Kvichak	0.0	0	9.8	11,983	7.8	11,668	22.7	171,597	1.9	9,788	0.0	0	0.0	0	13.1	205,036
thru	Naknek	0.0	0	47.0	57,596	74.7	111,992	19.4	146,651	25.7	135,073	0.0	0	0.0	0	28.9	451,312
7/11	Egegik	100.0	2,111	34.5	42,254	11.0	16,560	50.9	384,771	70.8	372,027	96.3	4,068	0.0	0	52.7	821,792
	Ugashik	0.0	0	8.7	10,636	6.5	9,698	7.0	52,915	1.7	8,888	3.7	155	0.0	0	5.3	82,293
	Total	100.0	2,111	100.0	122,470	100.0	149,919	100.0	755,935	100.0	525,775	100.0	4,223	0.0	0	100.0	1,560,433
7/12[c]	Kvichak	0.0	0	10.6	8,545	7.0	6,909	29.3	145,980	2.7	9,368	0.0	0	0.0	0	16.6	170,802
thru	Naknek	0.0	0	62.8	50,682	82.8	81,828	30.9	153,952	46.0	159,527	0.0	0	0.0	0	43.4	445,989
9/09	Egegik	100.0	1,392	17.8	14,355	4.7	4,671	31.3	155,944	49.0	169,634	93.0	2,589	0.0	0	33.9	348,585
	Ugashik	0.0	0	8.8	7,136	5.5	5,402	8.5	42,349	2.3	8,002	7.0	194	0.0	0	6.1	63,084
	Total	100.0	1,392	100.0	80,718	100.0	98,810	100.0	498,225	100.0	346,531	100.0	2,783	0.0	0	100.0	1,028,459
Total	Kvichak	0.0	0	15.1	83,580	14.8	69,004	27.4	648,775	2.4	42,204	0.0	0	5.3	924	16.3	844,486
	Naknek	0.0	0	27.7	153,059	57.0	264,887	14.4	342,463	19.5	341,718	0.0	0	7.9	1,371	21.3	1,103,499
	Egegik	100.0	12,146	46.9	258,406	18.6	86,413	51.2	1,214,437	76.3	1,335,663	96.5	20,654	83.6	14,436	56.6	2,942,155
	Ugashik	0.0	0	10.3	56,741	9.6	44,499	7.0	166,304	1.8	31,418	3.5	757	3.2	555	5.8	300,273
	Total	100.0	12,146	100.0	551,786	100.0	464,802	100.0	2,371,979	100.0	1,751,003	100.0	21,411	100.0	17,286	100.0	5,190,413

[a] Other includes age-2.1, -0.4, and 3.3

[a] Scale samples were collected from 23 through 30 June. Stock composition estimates calculated from those dates were applied to 28 May through 30 June catches.

[b] Scale samples were collected from 12 through 15 July. Stock composition estimates calculated from those dates were applied to 12 July through 9 September catches.

Appendix D.3. Stock composition estimates of sockeye salmon catches by age group and date, Egegik District, 1985.

		0.3		1.2		2.1		1.3		2.2		2.3		Other[a]		Total	
Date	System	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number
6/03[a]	Kvichak	0.0	0	15.0	4,247	0.0	0	10.5	14,086	39.8	95,980	53.9	34,574	27.4	298	31.8	149,186
thru	Naknek	0.0	0	21.0	5,926	0.0	0	26.9	36,088	0.4	965	8.8	5,613	5.0	54	10.4	48,791
6/22	Egegik	0.0	0	42.9	12,107	0.0	0	41.5	55,675	57.7	139,146	31.6	20,257	63.2	686	48.5	227,872
	Ugashik	0.0	0	21.1	5,963	0.0	0	21.1	28,307	2.1	5,064	5.7	3,647	4.4	48	9.3	43,426
	Total	0.0	0	100.0	28,243	0.0	0	100.0	134,156	100.0	241,155	100.0	64,091	100.0	1,086	100.0	469,274
6/27	Kvichak	100.0	809	11.1	22,113	0.0	0	13.7	127,432	22.9	398,566	41.5	219,679	11.5	1,120	22.6	769,720
thru	Naknek	0.0	0	16.6	33,222	1.5	48	20.5	190,683	0.0	0	7.3	38,403	15.5	1,513	7.7	263,870
7/02	Egegik	0.0	0	62.8	125,685	97.8	3,165	58.5	544,145	75.4	1,312,310	48.5	256,649	51.6	5,039	65.8	2,246,993
	Ugashik	0.0	0	9.5	18,977	0.7	23	7.3	67,902	1.7	29,588	2.7	14,165	21.4	2,093	3.9	132,747
	Total	100.0	809	100.0	199,997	100.0	3,236	100.0	930,163	100.0	1,740,464	100.0	528,896	100.0	9,765	100.0	3,413,330
7/05	Kvichak	100.0	4,073	9.7	14,995	0.0	0	14.8	94,040	22.3	331,531	41.8	304,497	0.0	0	24.8	749,136
thru	Naknek	0.0	0	17.2	26,566	2.0	332	16.7	106,113	5.1	75,821	8.6	62,773	0.0	0	9.0	271,606
7/12	Egegik	0.0	0	46.1	71,396	95.3	15,527	31.9	202,695	71.0	1,055,548	40.9	298,007	0.0	0	54.2	1,643,172
	Ugashik	0.0	0	27.0	41,821	2.7	434	36.6	232,559	1.6	23,787	8.8	63,811	0.0	0	12.0	362,412
	Total	100.0	4,073	100.0	154,778	100.0	16,293	100.0	635,406	100.0	1,486,688	100.0	729,088	0.0	0	100.0	3,026,326
7/13[b]	Kvichak	100.0	846	3.8	1,235	0.0	0	12.1	15,963	6.0	18,520	19.8	29,981	0.0	0	10.6	66,545
thru	Naknek	0.0	0	13.6	4,361	1.3	43	20.4	26,913	0.8	2,469	8.1	12,319	0.0	0	7.3	46,105
8/30	Egegik	0.0	0	59.6	19,158	96.9	3,280	41.0	54,090	90.1	278,115	63.2	95,608	0.0	0	71.7	450,251
	Ugashik	0.0	0	23.0	7,383	1.8	60	26.5	34,960	3.1	9,569	8.9	13,469	0.0	0	10.4	65,442
	Total	100.0	846	100.0	32,137	100.0	3,383	100.0	131,926	100.0	308,674	100.0	151,377	0.0	0	100.0	628,343
Total	Kvichak	100.0	5,728	10.3	42,590	0.0	0	13.7	251,522	22.4	844,598	40.0	588,731	12.4	1,418	23.0	1,734,587
	Naknek	0.0	0	16.9	70,075	1.8	423	19.6	359,797	2.1	79,255	8.1	119,108	15.0	1,713	8.4	630,371
	Egegik	0.0	0	54.9	228,346	95.9	21,971	46.8	856,604	73.7	2,785,120	45.5	670,520	50.3	5,725	60.6	4,568,287
	Ugashik	0.0	0	17.9	74,144	2.3	517	19.9	363,728	1.8	68,008	6.5	95,093	22.3	2,538	8.0	604,028
	Total	100.0	5,728	100.0	415,155	100.0	22,912	100.0	1,831,651	100.0	3,776,981	100.0	1,473,452	100.0	11,394	100.0	7,537,273

[a] Other includes age-1.4, -2.4, and -3.3

[a] Scale samples were collected from 18 June through 19 June. Stock composition estimates calculated from those dates were applied to 3 through 22 June catches.

[b] Scale samples were collected from 14 through 16 July. Stock composition estimates calculated from those dates were applied to 13 July through 30 August catches.

Appendix D.4. Stock composition estimates of sockeye salmon catches by age group and date, Egegik District, 1986.

		0.3		1.2		1.3		2.2		1.4		2.3		3.2		Total	
Date	System	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number
6/09[a]	Kvichak	0.0	0	9.0	2,154	2.9	2,347	6.9	6,041	3.1	27	5.2	4,656	0.0	0	5.4	15,225
thru	Naknek	0.0	0	6.2	1,473	32.6	26,382	3.5	3,064	24.0	212	17.0	15,096	0.0	0	16.4	46,228
6/28	Egegik	0.0	0	80.2	19,157	31.2	25,249	85.1	74,511	18.4	163	64.2	57,072	0.0	0	62.4	176,151
	Ugashik	0.0	0	4.6	1,096	33.3	26,948	4.5	3,940	54.5	482	13.6	12,059	0.0	0	15.8	44,525
	Total	0.0	0	100.0	23,880	100.0	80,925	100.0	87,557	100.0	884	100.0	88,883	0.0	0	100.0	282,129
7/01	Kvichak	0.0	0	1.0	2,223	2.4	5,674	0.0	0	0.0	0	0.7	1,769	0.0	0	0.8	9,666
thru	Naknek	0.0	0	2.3	4,874	27.0	63,833	0.0	0	0.0	0	7.2	18,378	0.0	0	6.8	87,086
7/04	Egegik	0.0	0	95.6	205,638	51.8	122,466	100.0	579,229	0.0	0	88.3	225,442	0.0	0	88.0	1,132,774
	Ugashik	0.0	0	1.1	2,407	18.8	44,447	0.0	0	0.0	0	3.8	9,745	0.0	0	4.4	56,599
	Total	0.0	0	100.0	215,142	100.0	236,420	100.0	579,229	0.0	0	100.0	255,334	0.0	0	100.0	1,286,125
7/05	Kvichak	5.3	103	7.4	19,897	0.2	282	6.1	58,479	0.0	0	5.3	8,324	0.0	0	5.7	87,086
thru	Naknek	3.1	59	0.8	2,221	2.8	3,943	3.1	29,719	0.0	0	2.8	4,405	0.0	0	2.6	40,347
7/10	Egegik	88.4	1,706	91.2	246,313	81.3	114,479	89.5	858,013	0.0	0	89.8	141,998	0.0	0	89.1	1,362,510
	Ugashik	3.1	61	0.6	1,618	15.7	22,107	1.3	12,463	0.0	0	2.2	3,445	0.0	0	2.6	39,693
	Total	100.0	1,929	100.0	270,050	100.0	140,811	100.0	958,674	0.0	0	100.0	158,172	0.0	0	100.0	1,529,636
7/11	Kvichak	0.9	15	1.5	2,715	3.2	9,408	0.0	0	0.8	26	0.9	1,026	0.0	0	1.0	13,191
thru	Naknek	10.1	163	3.1	5,787	35.0	102,902	0.0	0	19.6	635	9.4	10,369	0.0	0	9.0	119,854
7/14	Egegik	78.3	1,265	93.1	172,918	39.3	115,544	94.1	685,570	34.5	1,116	82.0	90,079	100.0	4,846	80.7	1,071,339
	Ugashik	10.7	172	2.3	4,353	22.5	66,151	5.9	42,985	45.0	1,455	7.6	8,375	0.0	0	9.3	123,491
	Total	100.0	1,615	100.0	185,773	100.0	294,006	100.0	728,555	100.0	3,231	100.0	109,849	100.0	4,846	100.0	1,327,875
7/15[b]	Kvichak	3.2	17	5.4	3,235	5.4	5,107	2.3	5,391	2.5	26	3.3	1,157	0.0	0	3.5	14,932
thru	Naknek	18.0	94	6.0	3,559	59.7	56,464	1.2	2,812	30.8	320	17.1	6,035	0.0	0	16.2	69,285
9/04	Egegik	67.8	353	86.1	51,435	23.1	21,848	85.9	201,326	26.2	272	71.7	25,355	100.0	1,559	70.7	302,147
	Ugashik	10.9	57	2.6	1,533	11.8	11,160	10.6	24,843	40.5	421	7.9	2,791	0.0	0	9.6	40,806
	Total	100.0	520	100.0	59,762	100.0	94,580	100.0	234,372	100.0	1,039	100.0	35,338	100.0	1,559	100.0	427,170

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

		0.3		1.2		1.3		2.2		1.4		2.3		3.2		Total	
Date	System	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number
Total	Kvichak	3.3	135	4.0	30,224	2.7	22,818	2.7	69,911	1.5	79	2.6	16,933	0.0	0	2.9	140,100
	Naknek	7.8	315	2.4	17,915	29.9	253,524	1.4	35,596	22.7	1,167	8.4	54,283	0.0	0	7.5	362,800
	Egegik	81.8	3,324	92.1	695,461	47.2	399,586	92.6	2,398,649	30.1	1,551	83.4	539,945	100.0	6,405	83.3	4,044,921
	Ugashik	7.1	290	1.5	11,007	20.2	170,814	3.3	84,231	45.7	2,357	5.6	36,415	0.0	0	6.3	305,114
	Total	100.0	4,064	100.0	754,607	100.0	846,742	100.0	2,588,387	100.0	5,154	100.0	647,576	100.0	6,405	100.0	4,852,935

[a] Scale samples were collected on 18 June. Stock composition estimates calculated for 18 June were applied to 9 June through 28 June catches.

[b] Scale samples were collected on 15 July. Stock composition estimates calculated for 15 July were applied to 15 July through 4 September catches.

Appendix D.5. Stock composition estimates of sockeye salmon catches by age group and date, Egegik District, 1987.

		1.1		1.2		1.3		2.2		1.4		2.3		3.2		Total	
Date	System	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number
6/03[a]	Kvichak	0.0	0	47.0	14,623	3.5	3,357	2.0	225	0.0	0	0.0	0	0.0	0	11.2	18,205
thru	Naknek	0.0	0	8.2	2,551	14.3	13,654	4.1	457	73.0	3,661	0.0	0	0.0	0	12.5	20,323
6/20	Egegik	0.0	0	44.8	13,939	75.2	71,699	88.6	9,776	19.0	954	85.7	17,202	0.0	0	69.8	113,570
	Ugashik	0.0	0	0.0	0	7.0	6,635	5.3	582	8.0	403	14.3	2,870	0.0	0	6.5	10,490
	Total	0.0	0	100.0	31,113	100.0	95,345	100.0	11,040	100.0	5,018	100.0	20,072	0.0	0	100.0	162,588
6/25	Kvichak	0.0	0	31.4	54,390	1.1	2,074	1.8	2,462	0.0	0	0.0	0	0.0	0	9.7	58,926
thru	Naknek	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0
6/28	Egegik	0.0	0	65.1	112,765	94.3	173,697	93.4	126,460	0.0	0	85.7	95,132	0.0	0	84.0	508,054
	Ugashik	100.0	1,220	3.5	6,063	4.6	8,425	4.8	6,482	0.0	0	14.3	15,874	0.0	0	6.3	38,063
	Total	100.0	1,220	100.0	173,218	100.0	184,196	100.0	135,403	0.0	0	100.0	111,006	0.0	0	100.0	605,043
6/29	Kvichak	0.0	0	31.4	101,154	5.5	19,841	2.3	4,121	0.0	0	0.0	0	0.0	0	12.2	125,116
thru	Naknek	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0
6/30	Egegik	0.0	0	65.1	209,716	64.2	232,981	82.0	144,820	42.5	1,648	72.4	116,617	0.0	0	68.7	705,783
	Ugashik	0.0	0	3.5	11,275	30.3	110,077	15.7	27,656	57.5	2,233	27.6	44,456	0.0	0	19.1	195,697
	Total	0.0	0	100.0	322,145	100.0	362,899	100.0	176,598	100.0	3,881	100.0	161,073	0.0	0	100.0	1,026,596
7/02	Kvichak	0.0	0	21.0	33,705	1.7	1,921	1.5	2,888	0.0	0	0.0	0	0.0	0	6.9	38,515
thru	Naknek	0.0	0	0.0	0	16.2	18,080	3.0	5,789	0.0	0	14.4	13,604	0.0	0	6.7	37,474
7/03	Egegik	0.0	0	79.0	126,797	78.8	88,053	93.4	178,284	0.0	0	78.8	74,445	0.0	0	83.9	467,578
	Ugashik	0.0	0	0.0	0	3.3	3,688	2.1	4,014	0.0	0	6.8	6,424	0.0	0	2.5	14,126
	Total	0.0	0	100.0	160,502	100.0	111,742	100.0	190,976	0.0	0	100.0	94,473	0.0	0	100.0	557,693
7/04	Kvichak	0.0	0	21.0	45,860	1.0	1,641	1.3	2,323	0.0	0	0.0	0	0.0	0	6.8	49,824
	Naknek	0.0	0	0.0	0	6.2	10,678	1.5	2,588	0.0	0	7.7	12,801	0.0	0	3.5	26,067
	Egegik	0.0	0	79.0	172,520	83.6	143,698	89.1	158,256	0.0	0	65.8	109,393	100.0	1,409	79.6	585,276
	Ugashik	0.0	0	0.0	0	9.2	15,871	8.1	14,355	0.0	0	26.5	44,057	0.0	0	10.1	74,282
	Total	0.0	0	100.0	218,380	100.0	171,887	100.0	177,522	0.0	0	100.0	166,251	100.0	1,409	100.0	735,449

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Appendix D.5. (p 2 of 2).

		1.1		1.2		1.3		2.2		1.4		2.3		3.2		Total	
Date	System	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number
7/07	Kvichak	0.0	0	29.0	60,403	1.0	1,957	1.6	4,498	0.0	0	0.0	0	0.0	0	7.4	66,858
thru	Naknek	0.0	0	7.2	14,997	11.1	21,470	2.9	8,152	0.0	0	6.1	13,429	0.0	0	6.4	58,047
7/09	Egegik	0.0	0	62.8	130,804	81.3	156,947	89.0	250,183	0.0	0	77.2	169,948	100.0	3,386	78.5	711,267
	Ugashik	0.0	0	1.0	2,083	6.6	12,673	6.5	18,272	0.0	0	16.7	36,763	0.0	0	7.7	69,791
	Total	0.0	0	100.0	208,286	100.0	193,047	100.0	281,104	0.0	0	100.0	220,140	100.0	3,386	100.0	905,963
7/10	Kvichak	0.0	0	29.0	30,449	0.3	398	1.2	2,291	0.0	0	0.0	0	0.0	0	5.6	33,137
thru	Naknek	0.0	0	7.2	7,560	3.4	5,018	1.8	3,597	53.9	820	6.1	8,911	0.0	0	4.3	25,906
7/12	Egegik	0.0	0	62.8	65,937	94.0	137,315	91.6	178,413	32.5	496	77.2	112,774	0.0	0	83.4	494,934
	Ugashik	0.0	0	1.0	1,050	2.3	3,348	5.4	10,472	13.6	206	16.7	24,395	0.0	0	6.7	39,472
	Total	0.0	0	100.0	104,995	100.0	146,080	100.0	194,772	100.0	1,522	100.0	146,080	0.0	0	100.0	593,449
7/13[b]	Kvichak	0.0	0	42.5	71,403	1.3	2,183	2.5	5,122	0.0	0	0.0	0	0.0	0	10.2	78,708
thru	Naknek	0.0	0	0.0	0	21.3	36,845	6.8	13,889	0.0	0	23.3	51,687	0.0	0	13.3	102,421
8/28	Egegik	0.0	0	37.1	62,330	59.0	102,010	68.3	140,371	0.0	0	45.5	100,934	100.0	1,631	52.9	407,277
	Ugashik	0.0	0	20.4	34,273	18.4	31,861	22.4	46,137	0.0	0	31.2	69,212	0.0	0	23.6	181,482
	Total	0.0	0	100.0	168,006	100.0	172,899	100.0	205,519	0.0	0	100.0	221,833	100.0	1,631	100.0	769,888
Total	Kvichak	0.0	0	29.7	411,986	2.3	33,373	1.7	23,930	0.0	0	0.0	0	0.0	0	8.8	469,289
	Naknek	0.0	0	1.8	25,107	7.4	105,746	2.6	34,472	43.0	4,481	8.8	100,432	0.0	0	5.0	270,238
	Egegik	0.0	0	64.6	894,808	76.9	1,106,400	86.4	1,186,563	29.7	3,098	69.8	796,444	100.0	6,426	74.6	3,993,739
	Ugashik	100.0	1,220	3.9	54,744	13.4	192,576	9.3	127,969	27.3	2,842	21.4	244,052	0.0	0	11.6	623,403
	Total	100.0	1,220	100.0	1,386,645	100.0	1,438,095	100.0	1,372,934	100.0	10,421	100.0	1,140,928	100.0	6,426	100.0	5,356,669

[a] Scale samples were collected on 21 June. Stock composition estimates calculated for 21 June were applied to 3 June through 21 June catches.

[b] Scale samples were collected on 13 July. Stock composition estimates calculated for 13 July were applied to 13 July through 28 August catches.

Appendix D.6. Stock composition estimates of sockeye salmon catches by age group and date, Egegik District, 1988.

		0.3		1.2		2.1		1.3		2.2		1.4		2.3		Other[a]		Total	
Date	System	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number
6/06[b]	Kvichak	22.7	200	68.6	4,826	0.0	0	38.3	33,691	5.7	1,421	24.9	292	5.6	1,473	0.0	0	28.3	41,903
thru	Naknek	0.0	0	6.3	442	0.0	0	3.9	3,431	0.0	0	47.3	555	9.3	2,424	0.0	0	4.6	6,852
6/17	Egegik	0.0	0	17.2	1,210	0.0	0	53.3	46,886	92.8	23,129	23.3	273	69.5	18,124	0.0	0	60.6	89,621
	Ugashik	77.3	679	7.9	559	0.0	0	4.5	3,958	1.5	374	4.5	53	15.6	4,075	0.0	0	6.5	9,698
	Total	100.0	879	100.0	7,037	0.0	0	100.0	87,966	100.0	24,923	100.0	1,173	100.0	26,096	0.0	0	100.0	148,074
6/20	Kvichak	29.6	695	61.9	30,540	0.0	0	35.1	172,408	5.7	17,549	0.0	0	4.2	6,251	0.0	0	22.7	227,443
thru	Naknek	0.0	0	10.2	5,038	0.0	0	6.8	33,401	0.0	0	0.0	0	12.3	18,511	0.0	0	5.7	56,950
6/23	Egegik	0.0	0	22.9	11,302	0.0	0	55.7	273,593	92.8	285,709	0.0	0	75.5	113,548	0.0	0	68.3	684,152
	Ugashik	70.4	1,655	5.0	2,474	0.0	0	2.4	11,789	1.5	4,618	0.0	0	8.0	12,102	0.0	0	3.3	32,637
	Total	100.0	2,350	100.0	49,354	0.0	0	100.0	491,190	100.0	307,876	0.0	0	100.0	150,412	0.0	0	100.0	1,001,182
6/26	Kvichak	0.0	0	39.8	11,999	0.0	0	15.3	31,375	0.0	0	16.4	160	1.5	1,441	0.0	0	9.3	44,975
thru	Naknek	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0
6/27	Egegik	0.0	0	50.1	15,090	0.0	0	84.7	173,693	94.3	140,224	77.1	749	89.7	88,964	0.0	0	86.5	418,720
	Ugashik	0.0	0	10.1	3,040	0.0	0	0.0	0	5.7	8,476	6.5	63	8.8	8,728	0.0	0	4.2	20,307
	Total	0.0	0	100.0	30,129	0.0	0	100.0	205,068	100.0	148,700	100.0	972	100.0	99,133	0.0	0	100.0	484,002
6/28	Kvichak	7.1	126	40.8	28,701	0.0	0	16.0	59,861	6.1	19,501	13.8	242	1.7	3,524	0.0	0	11.5	111,954
thru	Naknek	0.0	0	4.3	3,047	0.0	0	2.4	8,979	0.0	0	30.4	535	3.3	6,840	0.0	0	2.0	19,400
6/29	Egegik	0.0	0	36.8	25,822	0.0	0	71.6	267,879	93.9	300,183	46.3	814	76.7	158,975	0.0	0	77.3	753,672
	Ugashik	92.9	1,631	18.1	12,691	0.0	0	10.0	37,413	0.0	0	9.5	166	18.3	37,930	0.0	0	9.2	89,832
	Total	100.0	1,757	100.0	70,260	0.0	0	100.0	374,132	100.0	319,684	100.0	1,757	100.0	207,268	0.0	0	100.0	974,858

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Appendix D.6. (p 2 of 4).

		0.3		1.2		2.1		1.3		2.2		1.4		2.3		Other[a]		Total	
Date	System	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number
7/01	Kvichak	0.0	0	57.5	43,997	0.0	0	24.1	93,267	21.3	58,627	33.2	688	3.6	9,313	8.7	723	20.5	206,616
	Naknek	0.0	0	0.1	105	0.0	0	0.1	387	0.0	0	1.7	34	0.2	517	0.0	0	0.1	1,044
	Egegik	0.0	0	21.4	16,415	0.0	0	64.3	248,840	73.4	202,031	46.3	958	65.1	168,407	81.8	6,768	63.8	643,418
	Ugashik	0.0	0	21.0	16,054	0.0	0	11.5	44,505	5.3	14,588	18.8	390	31.1	80,452	9.5	788	15.6	156,777
	Total	0.0	0	100.0	76,572	0.0	0	100.0	386,999	100.0	275,246	100.0	2,070	100.0	258,689	100.0	8,279	100.0	1,007,855
7/03	Kvichak	0.0	0	26.2	3,747	0.0	0	6.9	7,472	7.5	11,531	3.8	19	1.0	853	3.8	96	6.5	23,718
thru	Naknek	0.0	0	24.3	3,475	0.0	0	6.2	6,714	7.9	12,146	73.3	375	16.9	14,416	0.0	0	10.2	37,125
7/05	Egegik	0.0	0	37.2	5,320	0.0	0	78.1	84,571	84.6	130,067	20.1	103	70.7	60,308	91.0	2,325	77.5	282,694
	Ugashik	0.0	0	12.3	1,759	0.0	0	8.8	9,529	0.0	0	2.8	14	11.4	9,724	5.2	134	5.8	21,161
	Total	0.0	0	100.0	14,302	0.0	0	100.0	108,286	100.0	153,743	100.0	511	100.0	85,301	100.0	2,555	100.0	364,698
7/06	Kvichak	7.9	119	52.6	18,677	0.0	0	32.7	37,037	11.9	14,287	0.0	0	3.2	2,344	0.0	0	20.9	72,463
	Naknek	0.0	0	6.7	2,377	0.0	0	0.0	0	5.8	6,963	0.0	0	7.3	5,347	0.0	0	4.2	14,688
	Egegik	0.0	0	19.8	7,011	0.0	0	48.1	54,480	82.3	98,808	0.0	0	59.1	43,286	100.0	3,020	59.7	206,605
	Ugashik	92.1	1,391	20.9	7,422	0.0	0	19.2	21,746	0.0	0	0.0	0	30.4	22,266	0.0	0	15.2	52,825
	Total	100.0	1,510	100.0	35,488	0.0	0	100.0	113,263	100.0	120,058	0.0	0	100.0	73,242	100.0	3,020	100.0	346,581
7/07	Kvichak	0.0	0	27.6	15,418	0.0	0	7.4	7,721	9.3	18,871	0.0	0	1.1	1,021	9.0	148	9.4	43,180
thru	Naknek	0.0	0	20.8	11,620	0.0	0	9.5	9,912	5.7	11,566	0.0	0	15.5	14,389	0.0	0	10.4	47,486
7/08	Egegik	0.0	0	31.0	17,318	0.0	0	74.7	77,937	78.9	160,102	0.0	0	63.1	58,578	71.0	1,167	68.9	315,102
	Ugashik	0.0	0	20.6	11,508	0.0	0	8.4	8,764	6.1	12,378	0.0	0	20.3	18,845	20.0	329	11.3	51,825
	Total	0.0	0	100.0	55,864	0.0	0	100.0	104,334	100.0	202,917	0.0	0	100.0	92,834	0.0	1,644	100.0	457,593
7/09	Kvichak	40.8	557	40.5	11,607	4.1	28	11.0	11,032	14.7	21,362	5.5	0	2.0	1,613	0.0	0	12.9	46,198
	Naknek	0.0	0	28.0	8,024	8.0	54	23.8	23,869	0.0	0	79.1	0	24.7	20,019	0.0	0	14.5	51,966
	Egegik	0.0	0	29.5	8,450	85.7	585	63.5	63,683	85.3	123,955	15.0	0	71.0	57,651	0.0	0	71.2	254,324
	Ugashik	59.2	807	2.0	573	2.2	15	1.7	1,705	0.0	0	0.4	0	2.3	1,903	0.0	0	1.4	5,004
	Total	100.0	1,364	100.0	28,654	100.0	682	100.0	100,288	100.0	145,317	100.0	0	100.0	81,187	0.0	0	100.0	357,492

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Appendix D.6. (p 3 of 4).

Date	System	0.3 %	0.3 Number	1.2 %	1.2 Number	2.1 %	2.1 Number	1.3 %	1.3 Number	2.2 %	2.2 Number	1.4 %	1.4 Number	2.3 %	2.3 Number	Other[a] %	Other[a] Number	Total %	Total Number
7/10	Kvichak	0.0	0	22.4	5,293	2.1	8	14.5	7,655	4.6	4,011	3.0	24	1.0	530	0.0	0	7.9	17,523
thru	Naknek	0.0	0	29.4	6,931	7.8	31	23.9	12,618	4.2	3,662	80.3	642	22.9	12,462	0.0	0	16.5	36,347
7/11	Egegik	0.0	0	23.8	5,619	64.5	258	56.3	29,724	78.9	68,797	11.7	94	50.8	27,626	100.0	1,600	60.6	133,717
	Ugashik	0.0	0	24.4	5,755	25.6	102	5.3	2,798	12.3	10,725	5.0	40	25.3	13,778	0.0	0	15.0	33,198
	Total	0.0	0	100.0	23,598	100.0	400	100.0	52,796	100.0	87,195	100.0	800	100.0	54,396	100.0	1,600	100.0	220,785
7/12	Kvichak	0.0	0	44.8	12,286	5.8	27	23.8	17,911	17.9	16,132	0.0	0	2.7	1,474	0.0	0	19.3	47,830
	Naknek	0.0	0	21.4	5,858	7.8	36	16.4	12,342	5.5	4,957	0.0	0	23.2	12,611	0.0	0	14.4	35,804
	Egegik	0.0	0	16.6	4,540	61.6	287	58.5	44,025	62.2	56,055	0.0	0	49.2	26,727	100.0	465	53.3	132,098
	Ugashik	0.0	0	17.2	4,724	24.8	115	1.3	978	14.4	12,977	0.0	0	24.9	13,541	0.0	0	13.0	32,337
	Total	0.0	0	100.0	27,408	100.0	465	100.0	75,257	100.0	90,121	0.0	0	100.0	54,353	100.0	465	100.0	248,069
7/13	Kvichak	0.0	0	42.2	8,637	3.6	17	30.8	19,042	1.4	1,412	8.6	41	1.9	1,139	0.0	0	12.4	30,287
	Naknek	0.0	0	14.9	3,037	3.6	17	12.4	7,666	0.0	0	62.9	299	12.2	7,311	0.0	0	7.5	18,331
	Egegik	0.0	0	33.7	6,887	83.9	399	49.9	30,851	98.1	98,906	25.6	122	75.8	45,422	0.0	0	74.9	182,586
	Ugashik	0.0	0	9.2	1,889	8.9	42	6.9	4,266	0.5	504	2.9	14	10.1	6,052	0.0	0	5.2	12,768
	Total	0.0	0	100.0	20,450	100.0	476	100.0	61,825	100.0	100,822	100.0	476	100.0	59,923	0.0	0	100.0	243,972
7/14	Kvichak	0.0	0	24.0	7,184	2.5	119	13.1	8,653	9.7	17,966	3.4	23	1.1	846	0.0	0	9.5	34,791
thru	Naknek	0.0	0	27.2	8,153	8.0	383	17.9	11,823	11.0	20,374	80.4	547	23.0	17,698	0.0	0	16.2	58,979
7/16	Egegik	0.0	0	17.6	5,275	53.1	2,530	58.5	38,640	63.1	116,873	9.3	64	40.8	31,395	100.0	681	53.7	195,458
	Ugashik	0.0	0	31.2	9,351	36.4	1,734	10.5	6,935	16.2	30,005	6.9	47	35.1	27,009	0.0	0	20.6	75,081
	Total	0.0	0	100.0	29,962	100.0	4,767	100.0	66,052	100.0	185,218	100.0	681	100.0	76,948	100.0	681	100.0	364,309
7/17[c]	Kvichak	0.0	0	33.3	6,885	4.0	84	29.9	15,518	9.7	11,051	0.0	0	0.3	161	0.0	0	14.2	33,698
thru	Naknek	0.0	0	25.1	5,179	8.5	179	16.9	8,771	11.0	12,532	0.0	0	0.1	44	0.0	0	11.3	26,705
9/13	Egegik	0.0	0	15.0	3,104	51.9	1,095	45.1	23,406	63.1	71,885	0.0	0	99.5	48,290	0.0	0	62.3	147,781
	Ugashik	0.0	0	26.6	5,507	35.6	752	8.1	4,204	16.2	18,456	0.0	0	0.1	26	0.0	0	12.2	28,944
	Total	0.0	0	100.0	20,675	100.0	2,110	100.0	51,898	100.0	113,923	0.0	0	100.0	48,522	0.0	0	100.0	237,128

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Appendix D.6. (p 4 of 4).

		0.3		1.2		2.1		1.3		2.2		1.4		2.3		Other[a]		Total	
Date	System	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number
Total	Kvichak	21.6	1,697	42.8	209,797	3.2	283	22.9	522,642	9.4	213,719	17.7	1,490	2.3	31,984	5.3	967	15.2	982,579
	Naknek	0.0	0	13.0	63,287	7.9	702	6.1	139,913	3.2	72,200	35.4	2,987	9.7	132,588	0.0	0	6.4	411,677
	Egegik	0.0	0	27.2	133,362	57.9	5,154	64.0	1,458,208	82.4	1,876,723	37.6	3,176	69.3	947,300	87.8	16,025	68.8	4,439,948
	Ugashik	78.4	6,163	17.0	83,307	31.0	2,761	7.0	158,591	5.0	113,101	9.3	787	18.7	256,432	6.9	1,252	9.6	622,394
	Total	100.0	7,860	100.0	489,753	100.0	8,900	100.0	2,279,354	100.0	2,275,743	100.0	8,440	100.0	1,368,304	100.0	18,244	100.0	6,456,598

[a] Includes age-0.2, -0.4, -3.2, and -3.3

[b] Scale samples were collected on 17 June. Stock composition estimates calculated for 17 June were applied to 6 June through 17 June catches.

[c] Scale samples were collected on 17 July. Stock composition estimates calculated for 17 July were applied to 17 July through 13 September catches.

Appendix D.7. Stock composition estimates of sockeye salmon catches by age group and date, Egegik District, 1989.

		0.3		1.2		1.3		2.2		1.4		2.3		3.2		Other[a]		Total	
Date	System	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number
6/05[b]	Kvichak	74.9	407	36.4	2,065	36.6	10,647	49.8	42,999	51.9	282	3.0	3,378	0.0	0	7.2	39	25.3	59,817
thru	Naknek	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0
6/22	Egegik	0.0	0	46.8	2,654	53.5	15,565	44.7	38,596	48.1	261	95.9	108,653	0.0	0	92.4	502	70.5	166,231
	Ugashik	25.1	136	16.8	955	9.9	2,871	5.5	4,749	0.0	0	1.1	1,213	0.0	0	0.4	2	4.2	9,925
	Total	100.0	543	100.0	5,674	100.0	29,083	100.0	86,344	100.0	543	100.0	113,243	0.0	0	100.0	543	100.0	235,973
6/23	Kvichak	64.6	484	24.3	10,477	24.3	20,058	35.4	62,428	0.0	0	1.7	3,062	0.0	0	0.0	0	19.9	96,509
thru	Naknek	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0
6/26	Egegik	0.0	0	57.3	24,666	65.0	53,708	58.2	102,635	0.0	0	97.3	175,253	0.0	0	100.0	534	73.7	356,796
	Ugashik	35.4	265	18.4	7,929	10.7	8,853	6.4	11,286	0.0	0	1.0	1,801	0.0	0	0.0	0	6.4	30,883
	Total	100.0	749	100.0	43,072	100.0	82,619	100.0	176,349	0.0	0	100.0	180,116	0.0	0	100.0	534	100.0	484,188
6/27	Kvichak	64.7	2,196	32.0	17,918	34.4	63,623	53.2	353,854	0.0	0	3.7	11,337	0.0	0	0.0	0	36.7	448,928
thru	Naknek	15.0	509	22.2	12,431	17.6	32,551	4.0	26,606	0.0	0	3.4	10,495	0.0	0	0.0	0	6.8	82,591
6/28	Egegik	0.0	0	32.0	17,918	39.3	72,685	37.3	248,097	0.0	0	91.7	284,870	100.0	1,697	0.0	0	51.2	625,267
	Ugashik	20.3	689	13.8	7,727	8.7	16,091	5.5	36,583	0.0	0	1.2	3,810	0.0	0	0.0	0	5.3	64,900
	Total	100.0	3,394	100.0	55,994	100.0	184,950	100.0	665,139	0.0	0	100.0	310,512	100.0	1,697	0.0	0	100.0	1,221,686
6/30	Kvichak	0.0	0	1.6	410	1.5	851	2.5	5,544	0.0	0	0.1	154	0.0	0	0.3	3	1.4	6,962
	Naknek	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0
	Egegik	0.0	0	84.0	21,622	90.5	51,086	92.1	204,233	0.0	0	99.4	202,700	0.0	0	99.4	984	94.4	480,625
	Ugashik	0.0	0	14.4	3,706	8.0	4,490	5.4	11,975	0.0	0	0.5	1,078	0.0	0	0.3	3	4.2	21,251
	Total	0.0	0	100.0	25,738	100.0	56,427	100.0	221,751	0.0	0	100.0	203,932	0.0	0	100.0	990	100.0	508,838
7/02	Kvichak	0.0	0	5.6	3,019	6.6	8,378	13.3	81,154	7.8	191	0.6	1,568	0.0	0	0.0	0	8.8	94,311
	Naknek	0.0	0	24.5	13,208	21.3	27,093	6.3	38,442	54.5	1,336	3.3	9,145	0.0	0	0.0	0	8.3	89,224
	Egegik	0.0	0	37.3	20,109	49.8	63,506	61.9	377,704	37.7	924	93.6	261,557	0.0	0	0.0	0	67.4	723,800
	Ugashik	0.0	0	32.6	17,575	22.3	28,450	18.5	112,884	0.0	0	2.5	7,091	0.0	0	0.0	0	15.5	166,000
	Total	0.0	0	100.0	53,912	100.0	127,427	100.0	610,184	100.0	2,451	100.0	279,361	0.0	0	0.0	0	100.0	1,073,335

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Appendix D.7. (p 2 of 3).

Date	System	0.3 %	0.3 Number	1.2 %	1.2 Number	1.3 %	1.3 Number	2.2 %	2.2 Number	1.4 %	1.4 Number	2.3 %	2.3 Number	3.2 %	3.2 Number	Other* %	Other* Number	Total %	Total Number
7/04	Kvichak	0.0	0	2.4	1,052	3.0	2,032	7.5	44,895	0.0	0	0.3	658	0.0	0	1.1	15	5.3	48,652
	Naknek	0.0	0	46.5	20,272	42.0	28,853	15.6	93,381	0.0	0	8.1	16,858	0.0	0	22.1	292	17.3	159,655
	Egegik	0.0	0	27.3	11,890	38.0	26,122	59.2	354,369	0.0	0	89.2	186,216	100.0	1,321	75.8	1,001	63.0	580,919
	Ugashik	0.0	0	23.8	10,392	17.0	11,707	17.7	105,952	0.0	0	2.4	5,050	0.0	0	1.0	13	14.4	133,114
	Total	0.0	0	100.0	43,606	100.0	68,713	100.0	598,597	0.0	0	100.0	208,782	100.0	1,321	100.0	1,321	100.0	922,340
7/06	Kvichak	0.0	0	1.7	479	2.1	1,286	6.0	37,394	0.0	0	0.3	622	0.0	0	0.0	0	4.3	39,781
	Naknek	0.0	0	52.3	14,864	48.9	29,411	20.1	125,271	0.0	0	11.1	22,998	0.0	0	0.0	0	21.0	192,544
	Egegik	0.0	0	21.3	6,046	30.7	18,467	52.9	329,694	0.0	0	85.5	177,147	0.0	0	0.0	0	57.8	531,354
	Ugashik	0.0	0	24.7	7,016	18.3	10,988	21.0	130,881	0.0	0	3.1	6,423	0.0	0	0.0	0	16.9	155,308
	Total	0.0	0	100.0	28,405	100.0	60,152	100.0	623,241	0.0	0	100.0	207,189	0.0	0	0.0	0	100.0	918,987
7/07	Kvichak	15.3	147	4.5	1,212	5.2	1,563	12.4	52,582	0.0	0	0.5	654	0.0	0	0.0	0	9.1	56,158
thru	Naknek	54.8	527	49.0	13,192	41.6	12,394	14.4	61,063	0.0	0	6.9	9,023	0.0	0	0.0	0	15.6	96,199
7/08	Egegik	0.0	0	34.2	9,208	44.9	13,388	65.2	276,478	0.0	0	91.6	119,787	100.0	2,885	0.0	0	68.6	421,746
	Ugashik	29.9	288	12.3	3,312	8.3	2,462	8.0	33,924	0.0	0	1.0	1,308	0.0	0	0.0	0	6.7	41,293
	Total	100.0	962	100.0	26,923	100.0	29,808	100.0	424,046	0.0	0	100.0	130,772	100.0	2,885	0.0	0	100.0	615,396
7/09	Kvichak	44.6	1,299	14.7	5,147	16.3	6,494	34.1	129,526	0.0	0	1.7	1,010	0.0	0	0.0	0	27.5	143,476
thru	Naknek	52.3	1,523	51.6	18,039	42.1	16,772	12.9	49,000	0.0	0	7.7	4,704	0.0	0	99.4	965	17.4	91,003
7/10	Egegik	0.0	0	32.3	11,282	40.7	16,191	52.2	198,278	0.0	0	90.5	55,411	100.0	1,942	0.0	0	54.3	283,104
	Ugashik	3.2	92	1.4	505	0.9	372	0.8	3,039	0.0	0	0.1	77	0.0	0	0.6	6	0.8	4,091
	Total	100.0	2,914	100.0	34,973	100.0	39,830	100.0	379,842	0.0	0	100.0	61,202	100.0	1,942	0.0	971	100.0	521,674
7/11	Kvichak	0.0	0	12.6	8,364	15.3	11,462	31.2	211,332	0.0	0	1.8	3,060	0.0	0	0.0	0	23.6	234,218
thru	Naknek	0.0	0	34.6	22,849	30.7	23,073	9.2	62,316	0.0	0	6.5	11,110	0.0	0	0.0	0	12.0	119,348
7/12	Egegik	0.0	0	25.1	16,622	34.5	25,908	43.3	293,291	0.0	0	88.7	152,203	100.0	3,574	0.0	0	49.5	491,598
	Ugashik	0.0	0	27.7	18,291	19.5	14,619	16.3	110,407	0.0	0	3.0	5,197	0.0	0	0.0	0	14.9	148,514
	Total	0.0	0	100.0	66,126	100.0	75,062	100.0	677,346	0.0	0	100.0	171,570	100.0	3,574	0.0	0	100.0	993,678

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Appendix D.7. (p 3 of 3).

Date	System	0.3 %	0.3 Number	1.2 %	1.2 Number	1.3 %	1.3 Number	2.2 %	2.2 Number	1.4 %	1.4 Number	2.3 %	2.3 Number	3.2 %	3.2 Number	Other[a] %	Other[a] Number	Total %	Total Number
7/13	Kvichak	0.0	0	8.3	4,304	10.4	3,597	27.6	115,221	7.4	197	1.6	1,149	0.0	0	0.0	0	21.5	124,468
thru	Naknek	0.0	0	58.2	30,177	53.8	18,597	20.9	87,251	82.1	2,183	15.2	10,913	0.0	0	0.0	0	25.7	149,121
7/14	Egegik	0.0	0	16.4	8,504	23.3	8,045	37.9	158,221	10.5	280	80.6	57,866	100.0	1,330	0.0	0	40.4	234,246
	Ugashik	0.0	0	17.1	8,867	12.5	4,327	13.6	56,776	0.0	0	2.6	1,867	0.0	0	0.0	0	12.4	71,836
	Total	0.0	0	100.0	51,851	100.0	34,567	100.0	417,469	100.0	2,660	100.0	71,794	100.0	1,330	0.0	0	100.0	579,671
7/15[c]	Kvichak	0.0	0	5.3	2,677	6.4	3,396	16.7	95,333	4.6	44	0.7	1,003	0.0	0	0.0	0	12.4	102,452
thru	Naknek	0.0	0	58.3	29,406	51.5	27,484	19.8	113,030	79.8	764	10.8	15,470	0.0	0	0.0	0	22.5	186,154
8/31	Egegik	0.0	0	25.0	12,602	34.1	18,180	54.9	313,400	15.6	150	87.3	125,047	100.0	6,432	100.0	958	57.7	476,770
	Ugashik	0.0	0	11.4	5,771	8.0	4,269	8.6	49,094	0.0	0	1.2	1,719	0.0	0	0.0	0	7.4	60,852
	Total	0.0	0	100.0	50,456	100.0	53,329	100.0	570,857	100.0	958	100.0	143,238	100.0	6,432	100.0	958	100.0	826,228
Total	Kvichak	52.9	4,533	11.7	57,123	15.8	133,389	22.6	1,232,263	10.8	714	1.3	27,653	0.0	0	0.9	57	16.4	1,455,732
	Naknek	29.9	2,559	35.9	174,438	25.7	216,228	12.0	656,359	64.8	4,283	5.3	110,715	0.0	0	20.7	1,257	13.1	1,165,839
	Egegik	0.0	0	33.5	163,124	45.5	382,851	53.2	2,894,995	24.4	1,615	91.6	1,906,710	100.0	19,181	65.7	3,980	60.3	5,372,456
	Ugashik	17.2	1,470	18.9	92,045	13.0	109,499	12.2	667,548	0.0	0	1.8	36,633	0.0	0	12.7	772	10.2	907,967
	Total	100.0	8,562	100.0	486,730	100.0	841,967	100.0	5,451,165	100.0	6,612	100.0	2,081,711	100.0	19,181	100.0	6,066	100.0	8,901,994

[a] Includes age-2.1, -3.1, -2.4, and -3.3

[b] Scale samples were collected from 16 through 22 June. Stock composition estimates calculated for those dates were applied to 5 June through 22 June catches.

[c] Scale samples were collected on 15 and 18 July. Stock composition estimates calculated for those dates were applied to 15 July through 31 August catches.

Appendix D.8. Stock composition estimates of sockeye salmon catch by age group and date, Egegik District, 1990.

		1.2		1.3		2.2		2.3		3.2		2.4		Other[a]		Total	
Date	System	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number
6/07[b]	Kvichak	4.9	468	10.9	1,437	55.7	15,637	16.2	2,807	0.0	0	0.0	0	47.1	336	30.0	20,685
thru	Naknek	27.7	2,654	60.8	8,015	8.9	2,498	14.3	2,478	0.0	0	0.0	0	18.2	130	22.9	15,776
6/21	Egegik	67.5	6,474	28.3	3,724	35.4	9,938	69.5	12,044	0.0	0	0.0	0	34.7	249	47.1	32,428
	Ugashik	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0
	Total	100.0	9,596	100.0	13,176	100.0	28,073	100.0	17,329	0.0	0	0.0	0	100.0	715	100.0	68,889
6/22	Kvichak	5.7	3,144	21.0	13,330	55.5	94,115	16.2	14,477	0.0	0	0.0	0	38.9	549	33.2	125,613
thru	Naknek	4.8	2,642	17.4	11,016	1.4	2,374	2.2	1,966	0.0	0	0.0	0	21.0	295	4.8	18,294
6/30	Egegik	89.5	49,098	61.6	38,982	43.1	73,087	81.6	72,919	0.0	0	0.0	0	40.1	564	62.0	234,651
	Ugashik	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0
	Total	100.0	54,884	100.0	63,328	100.0	169,576	100.0	89,362	0.0	0	0.0	0	100.0	1,408	100.0	378,558
7/01	Kvichak	3.1	6,128	14.6	27,063	42.7	191,712	10.4	43,648	0.0	0	17.5	1,282	34.5	3,369	21.5	273,202
thru	Naknek	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0
7/02	Egegik	96.9	191,519	85.4	158,383	57.3	257,263	89.6	376,048	100.0	2,440	82.5	6,038	65.5	6,391	78.5	998,082
	Ugashik	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0
	Total	100.0	197,647	100.0	185,446	100.0	448,975	100.0	419,696	100.0	2,440	100.0	7,320	100.0	9,760	100.0	1,271,284
7/03	Kvichak	2.1	3,162	9.3	17,068	33.8	114,137	11.6	65,186	0.0	0	12.6	1,301	0.0	0	16.0	200,854
thru	Naknek	1.9	2,877	8.3	15,271	0.8	2,701	0.9	5,058	0.0	0	0.0	0	0.0	0	2.1	25,907
7/04	Egegik	95.6	145,327	80.3	146,881	64.5	217,806	87.5	491,704	100.0	5,156	87.4	9,010	100.0	2,578	81.3	1,018,461
	Ugashik	0.5	720	2.1	3,801	0.9	3,039	0.0	0	0.0	0	0.0	0	0.0	0	0.6	7,560
	Total	100.0	152,087	100.0	183,020	100.0	337,684	100.0	561,947	100.0	5,156	100.0	10,311	100.0	2,578	100.0	1,252,783
7/05	Kvichak	1.9	4,452	9.5	24,335	39.6	263,880	4.6	45,896	0.0	0	0.0	0	0.0	0	15.4	338,563
thru	Naknek	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0
7/06	Egegik	98.1	226,073	90.5	231,405	60.4	402,483	95.4	951,846	100.0	43,224	0.0	0	0.0	0	84.6	1,855,031
	Ugashik	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0
	Total	100.0	230,525	100.0	255,740	100.0	666,363	100.0	997,742	100.0	43,224	0.0	0	0.0	0	100.0	2,193,594

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Appendix D.8. (p 2 of 3).

		1.2		1.3		2.2		2.3		3.2		2.4		Other[a]		Total	
Date	System	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number
7/07	Kvichak	2.4	3,300	8.7	18,676	46.0	189,353	8.1	52,502	0.0	0	0.0	0	0.0	0	18.3	263,830
thru	Naknek	8.6	11,845	30.7	65,914	3.1	12,761	4.4	28,520	0.0	0	0.0	0	0.0	0	8.3	119,039
7/08	Egegik	89.0	123,091	60.7	130,445	50.9	209,523	87.5	567,151	100.0	21,504	0.0	0	100.0	6,144	73.4	1,057,856
	Ugashik	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0
	Total	100.0	138,236	100.0	215,034	100.0	411,636	100.0	648,172	100.0	21,504	0.0	0	100.0	6,144	100.0	1,440,726
7/10	Kvichak	2.0	3,026	9.6	7,754	37.9	134,042	8.1	46,332	0.0	0	12.3	535	0.0	0	16.1	191,689
	Naknek	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0
	Egegik	96.9	143,835	85.5	69,027	60.1	212,558	91.9	525,662	100.0	32,747	87.7	3,831	100.0	2,183	82.9	989,844
	Ugashik	1.1	1,595	4.9	3,995	2.0	7,073	0.0	0	0.0	0	0.0	0	0.0	0	1.1	12,664
	Total	100.0	148,456	100.0	80,777	100.0	353,674	100.0	571,994	100.0	32,747	100.0	4,366	100.0	2,183	100.0	1,194,197
7/12	Kvichak	1.7	1,466	6.7	9,868	35.6	93,800	5.8	27,319	0.0	0	0.0	0	3.2	400	13.4	132,853
thru	Naknek	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0
7/13	Egegik	92.3	81,604	69.5	102,859	51.9	136,748	94.2	443,701	100.0	9,024	0.0	0	59.6	7,538	78.7	781,474
	Ugashik	6.1	5,359	23.8	35,257	12.5	32,935	0.0	0	0.0	0	0.0	0	37.2	4,695	7.9	78,246
	Total	100.0	88,429	100.0	147,984	100.0	263,483	100.0	471,020	100.0	9,024	0.0	0	100.0	12,633	100.0	992,573
7/14	Kvichak	2.1	1,857	4.6	2,266	33.5	82,882	8.8	18,547	0.0	0	0.0	0	9.5	145	17.4	105,696
thru	Naknek	25.8	22,851	56.1	27,425	11.3	27,957	14.9	31,403	0.0	0	0.0	0	8.3	127	18.1	109,762
7/15	Egegik	66.7	59,122	27.7	13,514	47.4	117,271	76.3	160,807	100.0	10,690	0.0	0	4.3	66	59.5	361,470
	Ugashik	5.4	4,749	11.6	5,665	7.8	19,298	0.0	0	0.0	0	0.0	0	77.9	1,189	5.1	30,901
	Total	100.0	88,578	100.0	48,870	100.0	247,408	100.0	210,756	100.0	10,690	0.0	0	100.0	1,527	100.0	607,829
7/16[c]	Kvichak	1.0	1,229	3.1	1,847	18.8	76,203	0.0	0	0.0	0	0.0	0	0.0	0	8.2	79,279
thru	Naknek	2.0	2,587	6.5	3,823	0.9	3,648	1.2	3,980	0.0	0	0.0	0	0.0	0	1.4	14,038
9/07	Egegik	85.0	109,042	52.1	30,696	62.8	254,550	98.8	327,657	100.0	45,692	0.0	0	100.0	1,474	79.2	769,111
	Ugashik	12.0	15,376	38.3	22,592	17.5	70,934	0.0	0	0.0	0	0.0	0	0.0	0	11.2	108,901
	Total	100.0	128,233	100.0	58,958	100.0	405,335	100.0	331,637	100.0	45,692	0.0	0	100.0	1,474	100.0	971,329

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Appendix D.8. (p 3 of 3).

		1.2		1.3		2.2		2.3		3.2		2.4		Other[a]		Total	
Date	System	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number
Total	Kvichak	2.3	28,230	9.9	123,644	37.7	1,255,760	7.3	316,713	0.0	0	14.2	3,118	12.5	4,799	16.7	1,732,265
	Naknek	3.7	45,457	10.5	131,464	1.6	51,940	1.7	73,403	0.0	0	0.0	0	1.4	552	2.9	302,816
	Egegik	91.8	1,135,186	73.9	925,915	56.8	1,891,227	91.0	3,929,538	100.0	170,477	85.8	18,879	70.8	27,187	78.1	8,098,410
	Ugashik	2.2	27,799	5.7	71,310	4.0	133,279	0.0	0	0.0	0	0.0	0	15.3	5,884	2.3	238,271
	Total	100.0	1,236,671	100.0	1,252,333	100.0	3,332,207	100.0	4,319,655	100.0	170,477	100.0	21,997	100.0	38,422	100.0	10,371,762

[a] Other includes ages-0.2, -0.3, -2.1, -1.4, and -3.3.

[b] Scale samples were collected from 21 June. Stock composition estimates calculated for that date were applied to 7 June through 21 June catches.

[c] Scale samples were collected on 16 and 18 July. Stock composition estimates calculated for those dates were applied to 16 July through 7 September catches.

Appendix D.9. Stock composition estimates of sockeye salmon catches by age group and date, Egegik District, 1991.

		1.2		1.3		2.2		2.3		2.4		3.3		Other[a]		Total	
Date	System	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number
6/12[b]	Kvichak	42.2	2,823	3.4	358	2.2	233	10.5	301	0.0	0	0.0	0	74.2	556	13.6	4,272
thru	Naknek	5.4	358	22.9	2,414	2.0	212	14.9	429	0.0	0	0.0	0	14.5	109	11.2	3,521
6/29	Egegik	52.4	3,502	73.7	7,768	95.8	10,156	74.7	2,150	0.0	0	100.0	57	11.3	85	75.3	23,718
	Ugashik	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0
	Total	100.0	6,683	100.0	10,540	100.0	10,601	100.0	2,880	0.0	0	100.0	57	100.0	750	100.0	31,511
6/30	Kvichak	18.0	5,550	1.2	1,325	0.7	609	4.1	1,274	0.0	0	0.0	0	24.4	238	3.5	8,996
	Naknek	2.8	875	9.1	10,050	0.7	609	7.3	2,251	0.0	0	0.0	0	7.2	71	5.3	13,855
	Egegik	64.1	19,723	77.1	85,148	95.1	82,722	84.6	26,061	0.0	0	100.0	489	62.1	608	82.4	214,751
	Ugashik	15.1	4,637	12.6	13,915	3.5	3,044	3.9	1,201	0.0	0	0.0	0	6.3	61	8.8	22,860
	Total	100.0	30,786	100.0	110,438	100.0	86,984	100.0	30,787	0.0	0	100.0	489	100.0	978	100.0	260,462
7/01	Kvichak	51.1	25,176	4.8	21,453	3.7	5,741	16.5	20,637	0.0	0	0.0	0	37.2	1,381	9.4	74,388
	Naknek	8.0	3,962	32.3	144,361	3.4	5,276	29.0	36,426	17.1	477	0.0	0	33.2	1,235	24.3	191,736
	Egegik	26.6	13,113	47.2	210,955	87.0	135,001	49.3	61,902	82.9	2,310	100.0	4,646	26.6	989	54.4	428,915
	Ugashik	14.2	6,997	15.7	70,169	5.9	9,155	5.2	6,475	0.0	0	0.0	0	3.0	112	11.8	92,909
	Total	100.0	49,247	100.0	446,938	100.0	155,174	100.0	125,440	100.0	2,787	100.0	4,646	100.0	3,716	100.0	787,948
7/02	Kvichak	36.7	13,866	2.0	6,859	3.7	4,406	9.5	9,188	0.0	0	0.0	0	34.4	980	5.8	35,298
	Naknek	4.6	1,748	13.3	45,612	3.4	4,048	13.5	12,993	6.0	128	0.0	0	28.0	799	10.8	65,328
	Egegik	49.6	18,736	78.2	268,185	87.0	103,589	74.3	71,499	94.0	2,011	100.0	3,565	35.1	1,000	77.5	468,585
	Ugashik	9.1	3,438	6.5	22,292	5.9	7,025	2.7	2,572	0.0	0	0.0	0	2.6	74	5.9	35,401
	Total	100.0	37,788	100.0	342,947	100.0	119,068	100.0	96,253	100.0	2,139	100.0	3,565	100.0	2,852	100.0	604,612
7/03	Kvichak	47.2	47,153	2.4	8,821	4.2	20,828	12.7	17,176	0.0	0	0.0	0	22.6	1,319	8.6	95,298
thru	Naknek	3.6	3,554	16.0	58,808	3.9	19,340	10.8	14,522	4.7	34	0.0	0	21.6	1,262	8.8	97,521
7/04	Egegik	49.2	49,203	81.6	299,921	91.9	455,734	76.5	103,216	95.3	695	100.0	4,376	55.7	3,251	82.6	916,395
	Ugashik	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0
	Total	100.0	99,910	100.0	367,550	100.0	495,902	100.0	134,915	100.0	729	100.0	4,376	100.0	5,832	100.0	1,109,214

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Appendix D.9. (p 2 of 3).

		1.2		1.3		2.2		2.3		2.4		3.3		Other[a]		Total	
Date	System	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number
7/05	Kvichak	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0
thru	Naknek	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0
7/07	Egegik	72.7	68,561	84.7	293,698	87.2	407,941	93.2	118,529	100.0	688	100.0	4,081	88.3	4,861	85.9	898,359
	Ugashik	27.3	25,682	15.3	53,053	12.8	59,881	6.8	8,704	0.0	0	0.0	0	11.7	643	14.1	147,963
	Total	100.0	94,243	100.0	346,751	100.0	467,822	100.0	127,233	100.0	688	100.0	4,081	100.0	5,504	100.0	1,046,322
7/08	Kvichak	26.6	27,177	2.7	10,677	0.6	1,947	7.5	10,327	0.0	0	0.0	0	0.0	0	5.2	50,128
thru	Naknek	4.0	4,093	16.4	64,854	0.5	1,622	12.6	17,445	0.0	0	0.0	0	0.0	0	9.2	88,013
7/09	Egegik	44.7	45,668	52.5	207,612	95.7	310,515	72.2	99,940	0.0	0	0.0	0	0.0	0	69.1	663,734
	Ugashik	24.6	25,167	28.4	112,308	3.2	10,383	7.8	10,796	0.0	0	0.0	0	0.0	0	16.5	158,654
	Total	100.0	102,104	100.0	395,451	100.0	324,467	100.0	138,508	0.0	0	0.0	0	0.0	0	100.0	960,530
7/10	Kvichak	12.7	14,120	0.9	2,811	0.3	1,030	2.4	2,365	0.0	0	0.0	0	1.5	17	2.3	20,344
thru	Naknek	2.0	2,210	6.4	19,988	0.3	1,030	4.2	4,152	1.6	19	0.0	0	52.9	633	3.2	28,031
7/11	Egegik	85.3	94,951	92.7	289,507	99.4	341,355	93.4	91,601	98.4	1,178	0.0	0	45.7	547	94.4	819,138
	Ugashik	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0
	Total	100.0	111,281	100.0	312,305	100.0	343,415	100.0	98,118	100.0	1,197	0.0	0	100.0	1,197	100.0	867,513
7/12	Kvichak	64.7	20,138	5.1	6,860	7.9	11,397	21.6	13,571	0.0	0	0.0	0	17.5	386	13.7	52,352
thru	Naknek	5.8	1,809	34.8	46,808	7.3	10,531	21.8	13,672	11.9	149	0.0	0	39.8	880	19.4	73,849
7/13	Egegik	29.5	9,175	60.1	80,839	84.8	122,333	56.7	35,610	88.1	1,108	100.0	4,724	42.7	943	66.9	254,732
	Ugashik	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0
	Total	100.0	31,122	100.0	134,507	100.0	144,261	100.0	62,853	100.0	1,257	100.0	4,724	100.0	2,209	100.0	380,933
7/14[c]	Kvichak	68.5	41,881	5.7	15,057	9.7	27,481	24.8	30,650	0.0	0	0.0	0	18.8	817	15.5	115,886
thru	Naknek	5.8	3,558	38.3	101,174	8.9	25,215	23.7	29,211	14.0	346	0.0	0	40.3	1,748	21.6	161,252
8/30	Egegik	24.4	14,940	54.4	143,704	80.1	226,931	51.0	62,965	86.0	2,125	100.0	9,277	40.7	1,769	61.7	461,711
	Ugashik	1.2	742	1.6	4,227	1.3	3,683	0.5	613	0.0	0	0.0	0	0.2	8	1.2	9,272
	Total	100.0	61,121	100.0	264,161	100.0	283,310	100.0	123,439	100.0	2,471	100.0	9,277	100.0	4,342	100.0	748,121

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Appendix D.9. (p 3 of 3).

		1.2		1.3		2.2		2.3		2.4		3.3		Other[a]		Total	
Date	System	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number
Total	Kvichak	31.7	197,883	2.7	74,222	3.0	73,672	11.2	105,490	0.0	0	0.0	0	20.8	5,696	6.7	456,962
	Naknek	3.6	22,166	18.1	494,068	2.8	67,884	13.9	131,102	10.2	1,152	0.0	0	24.6	6,736	10.6	723,108
	Egegik	54.1	337,572	69.1	1,887,335	90.3	2,196,277	71.6	673,473	89.8	10,116	100.0	31,215	51.3	14,042	75.8	5,150,038
	Ugashik	10.7	66,664	10.1	275,964	3.8	93,172	3.2	30,362	0.0	0	0.0	0	3.3	896	6.9	467,058
	Total	100.0	624,285	100.0	2,731,588	100.0	2,431,004	100.0	940,426	100.0	11,268	100.0	31,215	100.0	27,380	100.0	6,797,166

[a] Other includes age-0.2, -0.3, -2.1, -1.4, and -3.2.

[b] Scale samples were collected on 21 June. Stock composition estimates calculated for that date were applied to 10 through 29 June catches.

[c] Scale samples were collected on 16 and 18 July. Stock composition estimates calculated for these dates were applied to 14 July through 30 August catches.

Appendix D.10. Stock composition estimates of sockeye salmon catches by age group and date, Egegik District, 1992.

		1.2		1.3		2.2		1.4		2.3		3.2		Other[a]		Total	
Date	System	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number
6/21[b]	Kvichak	63.5	16,691	15.2	57,022	16.7	75,646	16.9	458	4.6	14,790	0.0	0	0.0	0	14.0	164,607
thru	Naknek	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0
6/25	Egegik	23.5	6,169	73.6	275,835	75.7	342,901	58.8	1,595	89.4	287,433	99.4	703	0.0	0	77.6	914,635
	Ugashik	13.1	3,431	11.2	41,947	7.6	34,426	24.3	659	6.0	19,291	0.6	4	0.0	0	8.5	99,758
	Total	1100.0	26,291	100.0	374,804	100.0	452,973	100.0	2,712	100.0	321,513	100.0	707	0.0	0	100.0	1,179,000
6/27	Kvichak	66.5	45,677	18.9	54,685	23.3	90,390	13.1	432	0.5	1,089	0.0	0	90.1	1,224	19.9	193,497
thru	Naknek	1.0	700	1.4	3,953	0.4	1,552	33.8	1,115	1.7	3,703	0.0	0	0.0	0	1.1	11,022
6/29	Egegik	17.3	11,874	64.3	186,050	61.7	239,358	32.1	1,059	96.0	209,085	99.1	1,924	0.0	0	66.9	649,350
	Ugashik	15.2	10,466	15.5	44,835	14.6	56,639	21.0	694	1.8	3,920	0.9	17	9.9	135	12.0	116,706
	Total	1100.0	68,717	100.0	289,523	100.0	387,938	100.0	3,300	100.0	217,797	100.0	1,941	100.0	1,359	100.0	970,575
6/30	Kvichak	2.7	320	0.3	426	0.0	0	0.1	1	0.5	805	0.0	0	0.2	2	0.2	1,555
	Naknek	12.3	1,470	5.4	9,224	0.0	0	72.6	962	8.6	13,850	0.0	0	14.7	195	4.1	25,702
	Egegik	74.0	8,868	90.6	154,357	97.4	276,110	24.5	325	89.5	144,133	99.8	1,323	85.2	1,128	92.9	586,246
	Ugashik	11.1	1,326	3.7	6,309	2.6	7,371	2.7	36	1.4	2,255	0.2	2	0.0	0	2.7	17,298
	Total	1100.0	11,985	100.0	170,316	100.0	283,481	100.0	1,325	100.0	161,043	100.0	1,325	100.0	1,325	100.0	630,800
7/01	Kvichak	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0
thru	Naknek	45.8	42,941	29.0	376,657	11.0	169,056	94.3	20,324	34.6	287,136	0.0	0	0.0	0	23.7	896,113
7/04	Egegik	35.2	33,016	61.9	803,544	80.7	1,240,255	4.1	875	63.2	524,479	0.0	0	0.0	0	68.8	2,602,170
	Ugashik	1 19.0	17,806	9.1	118,483	8.3	127,560	1.6	351	2.2	18,257	0.0	0	0.0	0	7.5	282,457
	Total	1100.0	93,762	100.0	1,298,684	100.0	1,536,871	100.0	21,550	100.0	829,872	0.0	0	0.0	0	100.0	3,780,739
7/05	Kvichak	1.9	1,547	0.2	2,081	0.0	0	0.1	14	0.4	4,142	0.0	0	0.1	11	0.2	7,795
thru	Naknek	8.8	7,015	4.1	44,530	0.0	0	65.2	10,350	6.8	70,420	0.0	0	8.2	964	3.2	133,279
7/09	Egegik	68.9	54,647	88.6	962,526	93.5	1,799,059	28.5	4,517	92.8	961,024	99.7	23,739	90.8	10,623	91.4	3,816,135
	Ugashik	20.4	16,162	7.2	77,831	6.5	125,068	6.3	992	0.0	0	0.3	72	0.9	99	5.3	220,225
	Total	1100.0	79,371	100.0	1,086,968	100.0	1,924,127	100.0	15,874	100.0	1,035,586	100.0	23,811	100.0	10,697	100.0	4,177,434

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Appendix D.10. (p 2 of 2).

		1.2		1.3		2.2		1.4		2.3		3.2		Other[a]		Total	
Date	System	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number
7/10	Kvichak	0.5	43	0.0	159	0.0	0	0.0	8	0.1	576	0.0	0	0.0	0	0.0	785
thru	Naknek	2.6	227	1.1	3,992	0.0	0	33.5	7,338	2.0	11,520	0.0	0	0.0	0	1.0	23,077
7/11	Egegik	79.1	6,891	93.1	335,684	100.0	1,253,120	56.9	12,460	87.4	503,402	99.8	13,147	0.0	0	95.1	2,124,705
	Ugashik	17.8	1,549	5.7	20,625	0.0	0	9.5	2,080	10.5	60,477	0.2	30	0.0	0	3.8	84,761
	Total	1100.0	8,710	100.0	360,459	100.0	1,253,120	100.0	21,887	100.0	575,975	100.0	13,177	0.0	0	100.0	2,233,328
7/12[c]	Kvichak	36.3	7,432	5.4	12,358	6.3	37,513	6.2	621	0.0	0	0.0	0	2.1	288	4.7	58,211
thru	Naknek	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0
7/14	Egegik	43.0	8,805	83.6	191,616	91.8	546,616	69.1	6,932	85.2	291,462	99.5	15,378	95.3	13,171	87.6	1,073,981
	Ugashik	20.7	4,247	11.0	25,273	1.9	11,313	24.8	2,484	14.8	50,630	0.5	76	2.6	362	7.7	94,385
	Total	1100.0	20,484	100.0	229,247	100.0	595,442	100.0	10,037	100.0	342,092	100.0	15,454	100.0	13,821	100.0	1,226,577
7/15[d]	Kvichak	2.5	1,028	0.3	543	0.0	0	0.1	9	0.6	2,312	0.0	0	0.2	6	0.3	3,897
thru	Naknek	11.7	4,892	5.9	12,176	0.0	0	72.5	7,035	10.7	41,232	0.0	0	16.9	539	4.5	65,874
8/27	Egegik	59.8	24,950	83.9	172,310	93.5	735,492	20.7	2,010	83.7	322,534	99.6	16,003	82.9	2,642	88.1	1,275,940
	Ugashik	26.0	10,835	10.0	20,459	6.5	51,130	6.7	648	5.0	19,267	0.4	71	0.0	0	7.1	102,411
	Total	1100.0	41,705	100.0	205,488	100.0	786,622	100.0	9,702	100.0	385,345	100.0	16,074	100.0	3,186	100.0	1,448,122
Total	Kvichak	20.7	72,738	3.2	127,273	2.8	203,549	1.8	1,542	0.6	23,714	0.0	0	1.3	1,531	2.8	430,347
	Naknek	16.3	57,245	11.2	450,532	2.4	170,608	54.6	47,124	11.1	427,859	0.0	0	9.4	1,698	7.4	1,155,066
	Egegik	44.2	155,220	76.8	3,081,922	89.1	6,432,910	34.5	29,775	83.8	3,243,552	99.6	72,217	89.2	27,563	83.4	13,043,161
	Ugashik	18.8	65,822	8.9	355,762	5.7	413,508	9.2	7,945	4.5	174,097	0.4	272	0.0	595	6.5	1,018,001
	Total	1100.0	351,025	100.0	4,015,489	100.0	7,220,574	100.0	86,387	100.0	3,869,223	100.0	72,489	100.0	31,388	100.0	15,646,575

[a] Other includes age-0.2, -2.1, and -3.3.

[b] Scale samples were collected on 23 and 25 June. Stock composition estimates calculated for that date were applied to 21 through 25 June catches.

[c] Westward boundary was moved from Loran C 9990-Y-45135 to Loran C 9990-Y-45110. Scale samples were collected from catches within the reduced district.

[d] Westward boundary was moved back to Loran C 9990-Y-45135. Scale samples were collected on 15 July. Stock composition estimates calculated for that date were applied to 15 July through 27 August catches.

Appendix D.11. Stock composition estimates of sockeye salmon catches by age group and date, Egegik District, 1993.

		1.2		1.3		2.2		1.4		2.3		3.2		Other[a]		Total	
Date	River	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number
6/17[b]	Kvichak	65.2	2,396	45.2	27,932	15.6	38,890	1.8	32	6.3	32,780	0.0	0	0.0	0	11.9	102,030
thru	Naknek	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0
6/21	Egegik	14.1	520	44.8	27,717	83.3	207,662	95.8	1,721	88.0	457,875	100.0	3,677	98.1	14,340	83.4	713,512
	Ugashik	20.7	761	10.0	6,183	1.1	2,742	2.4	43	5.7	29,658	0.0	0	1.9	284	4.6	39,670
	Total	100.0	3,677	100.0	61,832	100.0	249,294	100.0	1,796	100.0	520,312	100.0	3,677	100.0	14,624	100.0	855,212
6/22	Kvichak	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0
thru	Naknek	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0
6/24	Egegik	65.1	15,631	92.4	99,815	95.3	542,947	99.1	5,991	100.0	959,278	0.0	0	98.5	11,911	97.4	1,635,571
	Ugashik	34.9	8,380	7.6	8,152	4.7	26,777	0.9	54	0.0	0	0.0	0	1.5	179	2.6	43,544
	Total	100.0	24,011	100.0	107,967	100.0	569,724	100.0	6,045	100.0	959,278	0.0	0	100.0	12,090	100.0	1,679,115
6/25	Kvichak	19.9	6,012	6.3	10,938	2.6	31,524	0.1	41	0.1	1,797	0.0	0	0.0	0	1.5	50,312
thru	Naknek	43.9	13,249	41.7	72,970	8.7	105,485	39.4	11,886	15.4	276,771	0.0	0	42.6	10,338	15.0	490,698
6/27	Egegik	36.2	10,928	52.0	90,990	88.7	1,075,461	60.5	18,262	84.5	1,518,644	100.0	12,141	57.4	13,944	83.5	2,740,371
	Ugashik	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0
	Total	100.0	30,189	100.0	174,898	100.0	1,212,470	100.0	30,189	100.0	1,797,212	100.0	12,141	100.0	24,282	100.0	3,281,381
6/28	Kvichak	2.8	2,215	0.8	1,287	0.0	0	0.0	0	0.2	2,426	0.0	0	0.0	0	0.2	5,928
thru	Naknek	18.4	14,469	16.7	25,449	0.0	0	0.0	0	6.8	82,473	0.0	0	16.2	754	5.0	123,146
6/29	Egegik	57.0	44,804	78.0	119,130	100.0	999,802	0.0	0	90.8	1,101,258	0.0	0	82.0	3,816	92.7	2,268,810
	Ugashik	21.8	17,114	4.5	6,932	0.0	0	0.0	0	2.2	26,682	0.0	0	1.8	83	2.1	50,812
	Total	100.0	78,603	100.0	152,799	100.0	999,802	0.0	0	100.0	1,212,839	0.0	0	100.0	4,653	100.0	2,448,696
6/30	Kvichak	7.1	11,160	3.9	12,175	1.1	31,288	0.1	35	0.0	0	0.0	0	0.0	0	0.9	54,658
thru	Naknek	2.3	3,696	3.9	12,205	0.9	25,599	4.2	1,527	1.0	28,331	0.0	0	4.4	1,073	1.2	72,431
7/03	Egegik	27.4	43,265	68.3	216,003	87.8	2,497,321	92.1	33,309	95.2	2,697,114	100.0	24,321	84.5	20,547	88.7	5,531,879
	Ugashik	63.2	99,655	24.0	75,792	10.2	290,122	3.6	1,299	3.8	107,658	0.0	0	11.1	2,701	9.3	577,227
	Total	100.0	157,776	100.0	316,175	100.0	2,844,329	100.0	36,170	100.0	2,833,103	100.0	24,321	100.0	24,321	100.0	6,236,195
7/04	Kvichak	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0
thru	Naknek	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0
7/06	Egegik	16.5	21,275	56.5	118,019	79.4	1,194,783	0.0	0	92.3	1,286,452	100.0	6,184	38.8	4,798	80.8	2,631,511
	Ugashik	83.5	107,621	43.5	90,949	20.6	309,981	0.0	0	7.7	107,320	0.0	0	61.2	7,570	19.2	623,441
	Total	100.0	128,896	100.0	208,968	100.0	1,504,764	0.0	0	100.0	1,393,772	100.0	6,184	100.0	12,368	100.0	3,254,952

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Appendix D.11. (p 2 of 2).

Date	River	1.2		1.3		2.2		1.4		2.3		3.2		Other[a]		Total	
		%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number
7/07 thru 7/08	Kvichak	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0
	Naknek	17.3	1,615	19.6	11,036	5.4	51,875	18.3	1,708	3.8	24,019	0.0	0	9.9	1,236	5.4	91,489
	Egegik	40.7	3,792	69.5	39,189	90.1	865,545	80.3	7,472	95.1	601,108	100.0	12,526	87.9	11,011	91.0	1,540,643
	Ugashik	41.9	3,903	10.9	6,144	4.5	43,229	1.4	130	1.1	6,953	0.0	0	2.2	279	3.6	60,638
	Total	100.0	9,310	100.0	56,369	100.0	960,649	100.0	9,310	100.0	632,080	100.0	12,526	100.0	12,526	100.0	1,692,770
7/09 thru 7/11	Kvichak	42.8	10,710	32.0	11,614	9.2	71,361	0.0	0	0.3	1,082	0.0	0	0.0	0	7.7	94,767
	Naknek	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0
	Egegik	13.2	3,307	45.2	16,413	79.3	615,100	0.0	0	95.1	342,942	100.0	31,775	100.0	2,217	82.1	1,011,754
	Ugashik	43.9	10,984	22.9	8,304	11.5	89,201	0.0	0	4.6	16,588	0.0	0	0.0	0	10.2	125,078
	Total	100.0	25,001	100.0	36,332	100.0	775,662	0.0	0	100.0	360,612	100.0	31,775	100.0	2,217	100.0	1,231,599
7/12[c] thru 8/26	Kvichak	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0
	Naknek	10.8	1,059	13.8	4,745	5.2	26,684	13.4	334	0.5	1,708	0.0	0	0.0	0	3.7	34,529
	Egegik	36.6	3,574	70.7	24,220	87.6	449,516	84.5	2,102	99.3	339,276	100.0	15,932	100.0	3,684	91.0	838,305
	Ugashik	52.5	5,129	15.5	5,294	7.2	36,947	2.1	51	0.2	683	0.0	0	0.0	0	5.2	48,104
	Total	100.0	9,762	100.0	34,259	100.0	513,146	100.0	2,487	100.0	341,668	100.0	15,932	100.0	3,684	100.0	920,938
Total	Kvichak	7.0	32,494	5.6	63,946	1.8	173,063	0.1	108	0.4	38,084	0.0	0	0.0	0	1.4	307,695
	Naknek	7.3	34,087	11.0	126,405	2.2	209,642	18.0	15,455	4.1	413,302	0.0	0	12.1	13,400	3.8	812,293
	Egegik	31.5	147,096	65.4	751,497	87.7	8,448,136	80.1	68,856	92.6	9,303,947	100.0	106,556	77.9	86,269	87.5	18,912,356
	Ugashik	54.3	253,548	18.1	207,751	8.3	798,999	1.8	1,577	2.9	295,543	0.0	0	10.0	11,096	7.3	1,568,514
	Total	100.0	467,225	100.0	1,149,599	100.0	9,629,840	100.0	85,997	100.0	10,050,876	100.0	106,556	100.0	110,765	100.0	21,600,858

[a] Other includes age-0.3, -2.4, and -3.3.

[b] Scale samples were collected on 20 and 21 June. Stock composition estimates calculated for that date were applied to 17 through 21 June catches.

[c] Scale samples were collected on 12, 13, and 14 July. Stock composition estimates calculated for these dates were applied to 12 July through 26 August catches.

Appendix D.12. Stock composition estimates of sockeye salmon catches by age group and date, Egegik District, 1994.

		1.2		1.3		2.2		2.3		3.2		3.3		Other [a]		Total	
Date	System	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number
6/06 [b]	Kvichak	33.1	1,338	42.1	1,035	30.2	6,111	2.3	628	0.0	0	0.0	0	50.0	289	17.2	9,401
thru	Naknek	8.9	359	23.9	588	1.9	384	2.3	622	0.0	0	0.0	0	2.5	14	3.6	1,968
6/23	Egegik	57.3	2,321	33.2	816	67.5	13,659	95.1	25,969	0.0	0	0.0	0	47.4	274	78.8	43,039
	Ugashik	0.7	29	0.7	18	0.4	81	0.3	94	0.0	0	0.0	0	0.1	1	0.4	223
	Total	100.0	4,047	100.0	2,457	100.0	20,235	100.0	27,314	0.0	0	0.0	0	100.0	578	100.0	54,631
6/24	Kvichak	33.1	1,781	42.1	2,404	30.2	14,836	2.3	1,407	0.0	0	0.0	0	66.7	634	17.2	21,062
thru	Naknek	8.9	479	23.9	1,366	1.9	933	2.3	1,393	0.0	0	0.0	0	1.6	16	3.4	4,186
6/25	Egegik	57.3	3,090	33.2	1,895	67.5	33,161	95.1	58,160	0.0	0	0.0	0	31.6	300	79.0	96,606
	Ugashik	0.7	39	0.7	42	0.4	197	0.3	211	0.0	0	0.0	0	0.1	1	0.4	489
	Total	100.0	5,388	100.0	5,706	100.0	49,127	100.0	61,171	0.0	0	0.0	0	100.0	951	100.0	122,343
6/26	Kvichak	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0
thru	Naknek	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0
6/27	Egegik	100.0	9,404	100.0	5,984	100.0	67,545	100.0	99,608	100.0	2,565	100.0	427	100.0	4,273	100.0	188,952
	Ugashik	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0
	Total	100.0	9,404	100.0	5,984	100.0	67,545	100.0	99,608	100.0	2,565	100.0	427	100.0	4,273	100.0	188,952
6/28	Kvichak	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0
thru	Naknek	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0
6/29	Egegik	100.0	9,168	100.0	4,167	100.0	61,398	100.0	74,177	100.0	833	100.0	1,111	100.0	1,945	100.0	151,410
	Ugashik	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0
	Total	100.0	9,168	100.0	4,167	100.0	61,398	100.0	74,177	100.0	833	100.0	1,111	100.0	1,945	100.0	151,410
6/30	Kvichak	8.5	1,782	14.7	2,398	7.3	15,012	0.4	1,055	0.0	0	0.0	0	0.0	0	4.1	20,248
thru	Naknek	2.0	417	7.3	1,187	0.4	823	0.4	909	0.0	0	0.0	0	0.0	0	0.7	3,336
7/01	Egegik	77.4	16,295	61.3	9,968	86.0	176,859	94.9	229,735	99.4	5,704	0.0	0	0.0	0	89.4	438,561
	Ugashik	12.1	2,549	16.7	2,708	6.3	12,956	4.3	10,297	0.6	36	0.0	0	0.0	0	5.8	28,546
	Total	100.0	21,043	100.0	16,261	100.0	205,650	100.0	241,996	100.0	5,740	0.0	0	0.0	0	100.0	490,690

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Appendix D.12. (p 2 of 4).

		1.2		1.3		2.2		2.3		3.2		3.3		Other [a]		Total	
Date	System	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number
7/02	Kvichak	14.0	7,275	23.7	13,603	11.6	68,681	0.7	5,140	0.0	0	0.0	0	0.0	0	6.5	94,699
	Naknek	3.6	1,875	12.9	7,413	0.7	4,145	0.7	4,879	0.0	0	0.0	0	0.7	80	1.3	18,391
	Egegik	82.4	42,691	63.3	36,282	87.7	519,254	98.6	718,483	100.0	19,099	100.0	5,456	99.3	10,832	92.3	1,346,641
	Ugashik	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0
	Total	100.0	51,841	100.0	57,298	100.0	592,080	100.0	728,502	100.0	19,099	100.0	5,456	100.0	10,912	100.0	1,459,732
7/03	Kvichak	14.0	1,527	23.7	1,391	11.6	22,327	0.7	1,641	0.0	0	0.0	0	0.9	45	5.9	26,919
thru	Naknek	3.6	393	12.9	758	0.7	1,347	0.7	1,558	0.0	0	0.0	0	3.3	165	0.9	4,164
7/04	Egegik	82.4	8,959	63.3	3,709	87.7	168,797	98.6	229,440	100.0	13,390	0.0	0	95.8	4,812	93.2	428,340
	Ugashik	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0
	Total	100.0	10,879	100.0	5,858	100.0	192,471	100.0	232,640	100.0	13,390	0.0	0	100.0	5,022	100.0	459,423
7/05	Kvichak	18.2	6,687	27.1	8,546	16.4	70,192	1.1	4,769	0.0	0	0.0	0	0.0	0	9.5	90,195
	Naknek	4.7	1,742	14.9	4,706	1.0	4,280	1.0	4,574	0.0	0	0.0	0	1.1	40	1.6	15,342
	Egegik	65.6	24,150	44.4	14,027	76.3	326,566	93.2	410,217	99.3	10,449	100.0	1,754	96.9	3,400	83.0	788,810
	Ugashik	11.6	4,258	13.6	4,295	6.3	26,964	4.7	20,723	0.7	75	0.0	0	1.9	68	5.9	56,383
	Total	100.0	36,837	100.0	31,574	100.0	428,003	100.0	440,284	100.0	10,524	100.0	1,754	100.0	3,508	100.0	950,730
7/06	Kvichak	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0
thru	Naknek	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0
7/07	Egegik	78.1	47,452	67.3	61,292	88.4	689,155	92.6	802,873	98.9	20,021	100.0	3,375	96.9	13,084	89.2	1,633,877
	Ugashik	21.9	13,295	32.7	29,828	11.6	90,432	7.4	64,458	1.1	228	0.0	0	3.1	416	10.8	198,657
	Total	100.0	60,747	100.0	91,120	100.0	779,587	100.0	867,331	100.0	20,249	100.0	3,375	100.0	13,500	100.0	1,832,534
7/08	Kvichak	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0
thru	Naknek	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0
7/09	Egegik	78.1	26,573	67.3	26,695	88.4	739,255	92.6	530,071	98.9	44,847	100.0	14,174	100.0	14,174	89.6	1,381,615
	Ugashik	21.9	7,445	32.7	12,992	11.6	97,006	7.4	42,557	1.1	510	0.0	0	0.0	0	10.4	160,510
	Total	100.0	34,018	100.0	39,687	100.0	836,261	100.0	572,628	100.0	45,357	100.0	14,174	100.0	14,174	100.0	1,542,125

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Appendix D.12. (p 3 of 4).

		1.2		1.3		2.2		2.3		3.2		3.3		Other [a]		Total	
Date	System	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number
7/10	Kvichak	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0
thru	Naknek	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0
7/11	Egegik	100.0	20,878	100.0	32,477	100.0	363,047	100.0	387,406	100.0	20,878	100.0	2,320	100.0	4,640	100.0	829,326
	Ugashik	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0
	Total	100.0	20,878	100.0	32,477	100.0	363,047	100.0	387,406	100.0	20,878	100.0	2,320	100.0	4,640	100.0	829,326
7/12	Kvichak	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0
	Naknek	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0
	Egegik	100.0	5,279	100.0	17,595	100.0	207,624	100.0	197,947	100.0	7,918	100.0	1,760	100.0	4,400	100.0	439,883
	Ugashik	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0
	Total	100.0	5,279	100.0	17,595	100.0	207,624	100.0	197,947	100.0	7,918	100.0	1,760	100.0	4,400	100.0	439,883
7/13	Kvichak	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	50.0	702	0.2	702
thru	Naknek	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0
7/14	Egegik	76.1	9,615	64.8	17,262	87.2	132,754	91.8	140,981	98.7	2,771	100.0	702	50.0	702	87.0	304,085
	Ugashik	23.9	3,013	35.2	9,398	12.8	19,487	8.2	12,661	1.3	35	0.0	0	0.0	0	12.8	44,594
	Total	100.0	12,628	100.0	26,660	100.0	152,241	100.0	153,642	100.0	2,806	100.0	702	100.0	1,404	100.0	349,381
7/15	Kvichak	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0
thru	Naknek	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0
7/17	Egegik	0.0	0	64.8	24,921	87.2	367,484	100.0	498,277	100.0	30,789	100.0	11,546	100.0	13,470	93.3	934,941
	Ugashik	0.0	0	35.2	13,566	12.8	53,943	0.0	126	0.0	1	0.0	0	0.0	0	6.7	67,636
	Total	0.0	0	100.0	38,487	100.0	421,427	100.0	498,403	100.0	30,790	100.0	11,546	100.0	13,470	100.0	1,002,577
7/18 [c]	Kvichak	8.7	464	16.2	5,763	7.0	27,809	0.4	1,633	0.0	0	0.0	0	0.0	0	4.1	35,669
thru	Naknek	2.1	113	8.3	2,974	0.4	1,589	0.4	1,468	0.0	0	0.0	0	0.1	14	0.7	6,158
8/26	Egegik	89.2	4,767	75.5	26,893	92.6	367,867	99.2	399,508	100.0	24,940	100.0	8,907	99.9	10,674	95.2	834,649
	Ugashik	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0
	Total	100.0	5,344	100.0	35,629	100.0	397,265	100.0	402,610	100.0	24,940	100.0	8,907	100.0	10,688	100.0	876,476

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Appendix D.12. (p 4 of 4).

		1.2		1.3		2.2		2.3		3.2		3.3		Other [a]		Total	
Date	System	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number
Total	Kvichak	7.3	20,853	8.6	35,140	4.7	224,969	0.3	16,275	0.0	0	0.0	0	1.9	1,670	2.8	298,895
	Naknek	1.9	5,379	4.6	18,991	0.3	13,501	0.3	15,404	0.0	0	0.0	0	0.4	328	0.5	53,545
	Egegik	80.2	230,641	69.1	283,983	88.7	4,234,425	96.3	4,802,853	99.6	204,203	100.0	51,532	97.2	86,981	91.5	9,840,734
	Ugashik	10.7	30,629	17.7	72,847	6.3	301,065	3.0	151,127	0.4	886	0.0	0	0.5	485	5.2	557,039
	Total	100.0	287,501	100.0	410,960	100.0	4,773,961	100.0	4,985,659	100.0	205,089	100.0	51,532	100.0	89,465	100.0	10,750,213

[a] Other includes age-0.2, -0.3, -2.1, -1.4, and -2.4.

[b] Scale samples were collected 23 June. Stock composition estimates calculated for these dates were applied to 6 through 23 June catches.

[c] Scale samples were collected on 18 and 20 July. Stock composition estimates calculated for these dates were applied to 18 July through 26 August catches.

Appendix D.13. Stock composition estimates of sockeye salmon catches by age group and date, Egegik District, 1995.

		1.2		1.3		2.2		2.3		3.2		3.3		Other [a]		Total	
Date	System	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number
6/06 [b]	Kvichak	13.3	1,622	11.0	1,895	18.2	16,012	8.9	3,032	0.5	4	0.0	0	0.0	0	14.7	22,565
thru	Naknek	2.8	335	11.7	2,023	1.2	1,056	1.7	562	0.2	2	0.0	0	0.0	0	2.6	3,978
6/22	Egegik	83.9	10,207	77.3	13,338	80.6	70,911	89.4	30,353	99.3	843	100.0	1,415	0.0	0	82.7	127,067
	Ugashik	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0
	Total	100.0	12,164	100.0	17,256	100.0	87,979	100.0	33,947	100.0	849	100.0	1,415	0.0	0	100.0	153,610
6/23	Kvichak	14.2	16,983	11.7	8,850	19.3	171,948	9.5	23,503	0.6	59	0.0	0	0.0	0	16.4	221,343
thru	Naknek	2.8	3,304	11.8	8,914	1.2	10,691	1.7	4,111	0.2	19	0.0	0	0.0	0	2.0	27,039
6/26	Egegik	83.0	99,441	76.5	57,946	79.5	708,281	88.8	218,886	99.2	10,486	100.0	5,282	0.0	0	81.6	1,100,322
	Ugashik	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0
	Total	100.0	119,728	100.0	75,710	100.0	890,920	100.0	246,500	100.0	10,564	100.0	5,282	0.0	0	100.0	1,348,704
6/27	Kvichak	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	100.0	2,419	0.1	2,419
thru	Naknek	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0
6/29	Egegik	100.0	193,482	100.0	67,718	100.0	1,245,533	100.0	345,848	100.0	19,349	100.0	7,256	0.0	0	99.9	1,879,186
	Ugashik	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0
	Total	100.0	193,482	100.0	67,718	100.0	1,245,533	100.0	345,848	100.0	19,349	100.0	7,256	100.0	2,419	100.0	1,881,605
6/30	Kvichak	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	100.0	1,753	0.2	1,753
	Naknek	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0
	Egegik	100.0	103,414	100.0	45,573	100.0	634,504	100.0	152,492	100.0	10,516	0.0	0	0.0	0	99.8	946,499
	Ugashik	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0
	Total	100.0	103,414	100.0	45,573	100.0	634,504	100.0	152,492	100.0	10,516	0.0	0	100.0	1,753	100.0	948,252
7/01	Kvichak	8.7	8,694	7.4	4,048	12.1	78,023	5.7	12,152	0.3	16	0.0	0	0.0	0	10.1	102,933
thru	Naknek	1.8	1,799	7.9	4,336	0.8	5,158	1.1	2,259	0.1	6	0.0	0	0.0	0	1.3	13,558
7/02	Egegik	89.5	88,964	84.7	46,318	87.1	561,634	93.2	197,765	99.6	4,951	100.0	6,631	0.0	0	88.6	906,263
	Ugashik	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0
	Total	100.0	99,457	100.0	54,702	100.0	644,815	100.0	212,176	100.0	4,973	100.0	6,631	0.0	0	100.0	1,022,754

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Appendix D.13. (p. 2 of 3).

		1.2		1.3		2.2		2.3		3.2		3.3		Other [a]		Total	
Date	System	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number
7/03	Kvichak	17.4	28,819	14.1	13,570	23.5	240,378	11.9	55,793	0.7	49	0.0	0	100.0	3,444	19.4	342,053
thru	Naknek	3.5	5,756	14.5	14,029	1.5	15,343	2.1	10,017	0.2	17	0.0	0	0.0	0	2.6	45,162
7/04	Egegik	79.1	130,740	71.4	68,834	75.0	767,162	85.9	402,581	99.1	6,822	0.0	0	0.0	0	78.0	1,376,139
	Ugashik	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0
	Total	100.0	165,315	100.0	96,433	100.0	1,022,883	100.0	468,391	100.0	6,888	0.0	0	100.0	3,444	100.0	1,763,354
7/05	Kvichak	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0
thru	Naknek	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0
7/06	Egegik	100.0	101,478	100.0	62,196	100.0	798,730	100.0	350,262	100.0	19,641	100.0	8,183	100.0	1,637	100.0	1,342,127
	Ugashik	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0
	Total	100.0	101,478	100.0	62,196	100.0	798,730	100.0	350,262	100.0	19,641	100.0	8,183	100.0	1,637	100.0	1,342,127
7/07	Kvichak	23.3	19,516	20.3	11,978	46.8	231,280	28.1	74,656	2.3	177	0.0	0	0.0	0	36.9	337,607
	Naknek	4.7	3,914	21.1	12,437	3.0	14,826	5.1	13,461	0.8	60	0.0	0	0.0	0	4.9	44,698
	Egegik	31.8	26,614	31.0	18,266	44.9	221,891	60.8	161,937	96.9	7,366	100.0	3,802	100.0	1,901	48.2	441,777
	Ugashik	40.2	33,589	27.6	16,242	5.3	26,192	6.0	16,048	0.0	0	0.0	0	0.0	0	10.0	92,071
	Total	100.0	83,633	100.0	58,923	100.0	494,189	100.0	266,102	100.0	7,603	100.0	3,802	100.0	1,901	100.0	916,153
7/08	Kvichak	9.3	5,094	8.7	2,380	18.4	74,132	9.1	16,570	0.6	87	0.0	0	0.2	3	14.3	98,266
thru	Naknek	1.9	1,040	9.2	2,514	1.2	4,836	1.7	3,039	0.2	30	0.0	0	0.1	1	1.7	11,460
7/09	Egegik	54.3	29,871	56.8	15,605	75.9	305,796	85.0	154,526	99.2	15,580	100.0	3,924	98.9	1,293	76.5	526,595
	Ugashik	34.5	18,935	25.4	6,971	4.5	18,130	4.2	7,691	0.0	0	0.0	0	0.8	11	7.5	51,738
	Total	100.0	54,940	100.0	27,470	100.0	402,894	100.0	181,826	100.0	15,697	100.0	3,924	100.0	1,308	100.0	688,059
7/10	Kvichak	1.9	2,572	2.0	1,736	5.4	40,233	2.5	9,605	0.1	26	0.0	0	0.0	0	3.9	54,172
thru	Naknek	0.3	447	1.8	1,563	0.3	2,235	0.4	1,501	0.0	7	0.0	0	0.0	0	0.4	5,753
7/11	Egegik	41.8	56,741	49.5	42,830	83.8	624,359	87.9	337,005	99.9	16,938	100.0	16,972	100.0	1,697	79.1	1,096,542
	Ugashik	56.0	76,014	46.7	40,427	10.5	78,232	9.2	35,450	0.0	0	0.0	0	0.0	0	16.6	230,123
	Total	100.0	135,774	100.0	86,556	100.0	745,059	100.0	383,561	100.0	16,971	100.0	16,972	100.0	1,697	100.0	1,386,590

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Appendix D.13. (p. 3 of 3).

		1.2		1.3		2.2		2.3		3.2		3.3		Other [a]		Total	
Date	System	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number
7/12	Kvichak	9.3	5,963	9.0	4,079	21.9	117,849	11.1	28,811	0.7	63	0.0	0	0.0	0	16.8	156,765
thru	Naknek	1.9	1,193	9.4	4,224	1.4	7,533	2.0	5,181	0.2	21	0.0	0	0.0	0	2.0	18,152
7/13	Egegik	41.8	26,862	45.5	20,547	69.4	373,457	79.9	206,424	99.1	8,595	100.0	15,622	0.0	0	70.0	651,507
	Ugashik	47.0	30,210	36.1	16,282	7.3	39,283	7.0	18,229	0.0	0	0.0	0	0.0	0	11.2	104,004
	Total	100.0	64,228	100.0	45,132	100.0	538,122	100.0	258,645	100.0	8,679	100.0	15,622	0.0	0	100.0	930,428
7/14	Kvichak	16.9	9,363	15.4	12,470	35.2	199,441	19.5	78,340	1.4	89	0.0	0	0.0	0	26.2	299,703
thru	Naknek	3.3	1,831	15.6	12,623	2.2	12,465	3.4	13,772	0.5	30	0.0	0	22.5	479	3.6	41,200
7/16	Egegik	38.9	21,550	39.7	32,095	57.0	322,960	71.2	286,812	98.1	6,271	100.0	31,951	77.5	1,651	61.3	703,290
	Ugashik	40.9	22,638	29.3	23,754	5.6	31,729	5.9	23,656	0.0	0	0.0	0	0.0	0	8.9	101,777
	Total	100.0	55,382	100.0	80,942	100.0	566,595	100.0	402,580	100.0	6,390	100.0	31,951	100.0	2,130	100.0	1,145,970
7/17 [c]	Kvichak	10.4	3,825	9.1	5,796	16.7	67,485	8.1	27,203	0.5	79	0.0	0	0.0	0	11.6	104,388
thru	Naknek	2.1	788	9.7	6,184	1.1	4,445	1.5	5,040	0.2	28	0.0	0	0.0	0	1.8	16,485
8/25	Egegik	71.4	26,207	70.1	44,408	80.5	325,302	88.8	296,468	99.3	16,591	100.0	43,416	0.0	0	83.8	752,392
	Ugashik	16.1	5,917	11.1	7,065	1.7	6,870	1.6	5,256	0.0	0	0.0	0	0.0	0	2.8	25,108
	Total	100.0	36,737	100.0	63,453	100.0	404,102	100.0	333,967	100.0	16,698	100.0	43,416	0.0	0	100.0	898,373
Total	Kvichak	8.3	102,451	8.5	66,802	14.6	1,236,781	9.0	329,665	0.4	649	0.0	0	46.8	7,619	12.0	1,743,967
	Naknek	1.6	20,407	8.8	68,847	0.9	78,588	1.6	58,943	0.2	220	0.0	0	2.9	480	1.6	227,485
	Egegik	74.6	915,571	68.4	535,674	82.1	6,960,520	86.4	3,141,359	99.4	143,949	100.0	144,454	50.2	8,179	82.1	11,849,706
	Ugashik	15.5	187,303	14.4	110,741	2.4	200,436	3.0	106,330	0.0	0	0.0	0	0.1	11	4.3	604,821
	Total	100.0	1,225,732	100.0	782,064	100.0	8,476,325	100.0	3,636,297	100.0	144,818	100.0	144,454	100.0	16,289	100.0	14,425,979

[a] Other includes ages-0.2, -0.3, -2.1, -1.4, and -2.4

[b] Scale samples were collected on 19 and 21 June. Stock composition estimates calculated for these dates were applied to 6 through 22 June catches.

[c] Scale samples were collected on 17 July. Stock composition estimates calculated for 17 July were applied to 17 July through 25 August catches.

Appendix E: Ugashik District Stock Composition, 1983 - 1995

Appendix E.1. Stock composition estimates of sockeye salmon catches by age group and date, Ugashik District, 1983.

		1.2		1.3		2.2		1.4		2.3		3.2		3.3		Total	
Date	System	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number
6/13[a]	Kvichak	11.8	75,442	6.4	6,387	1.2	2,697	0.0	0	1.0	411	0.0	0	0.0	0	8.4	84,937
thru	Naknek	0.3	1,918	13.0	12,888	7.3	16,407	55.7	1,579	4.6	1,928	0.0	0	100.0	944	3.5	35,664
7/06	Egegik	4.6	29,410	15.2	15,113	81.1	182,280	32.8	931	50.7	21,065	100.0	1,889	0.0	0	24.8	250,688
	Ugashik	83.3	532,569	65.3	64,771	10.4	23,375	11.4	324	43.7	18,148	0.0	0	0.0	0	63.3	639,186
	Total	100.0	639,338	100.0	99,159	100.0	224,760	100.0	2,833	100.0	41,552	100.0	1,889	100.0	944	100.0	1,010,475
7/07[b]	Kvichak	4.0	59,196	2.3	5,366	2.4	12,486	0.0	0	0.4	408	0.0	0	0.0	0	3.3	77,456
thru	Naknek	0.2	2,960	16.4	37,757	10.7	55,668	68.7	4,508	7.0	6,685	0.0	0	100.0	2,186	4.7	109,763
8/20	Egegik	0.7	10,359	9.0	20,711	58.9	306,432	19.0	1,243	35.5	34,157	100.0	4,372	0.0	0	16.1	377,274
	Ugashik	95.1	1,407,380	72.2	165,692	28.0	145,672	12.3	808	57.1	54,931	0.0	0	0.0	0	75.9	1,774,483
	Total	100.0	1,479,895	100.0	229,525	100.0	520,258	100.0	6,558	100.0	96,182	100.0	4,372	100.0	2186	100.0	2,338,976
Total	Kvichak	6.4	134,638	3.6	11,753	2.0	15,183	0.0	0	0.6	819	0.0	0	0.0	0	4.8	162,393
	Naknek	0.2	4,878	15.4	50,645	9.7	72,075	64.9	6,086	6.3	8,614	0.0	0	100.0	3,130	4.3	145,427
	Egegik	1.9	39,769	10.9	35,824	65.6	488,712	23.1	2,173	40.1	55,222	100.0	6,261	0.0	0	18.7	627,962
	Ugashik	91.5	1,939,949	70.1	230,463	22.7	169,047	12.0	1,131	53.0	73,079	0.0	0	0.0	0	72.2	2,413,669
	Total	100.0	2,119,233	100.0	328,684	100.0	745,018	100.0	9,391	100.0	137,734	100.0	6,261	100.0	3,130	100.0	3,349,451

[a] Scale samples were collected from 17 June through 6 July. Stock composition estimates calculated from those dates were applied to 13 June through 6 July catches.

[b] Scale samples were collected from 9 through 15 July. Stock composition estimates calculated from those dates were applied to 7 July through 20 August catches.

Appendix E.2. Stock composition estimates of sockeye salmon catches by age group and date, Ugashik District, 1984.

		0.3		1.2		1.3		2.2		1.4		2.3		3.3		Total	
Date	System	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number
6/11[a]	Kvichak	0.0	0	32.2	43,032	35.7	45,354	53.4	83,000	0.0	0	11.2	9,275	0.0	0	36.0	180,661
thru	Naknek	0.0	0	4.1	5,439	9.0	11,446	1.2	1,865	5.9	48	4.1	3,366	9.7	79	4.4	22,242
7/04	Egegik	100.0	2,429	18.2	24,331	8.1	10,321	19.2	29,843	14.2	115	68.5	56,532	90.3	731	24.7	124,303
	Ugashik	0.0	0	45.5	60,773	47.2	59,978	26.2	40,723	79.9	647	16.2	13,401	0.0	0	34.9	175,522
	Total	100.0	2,429	100.0	133,575	100.0	127,099	100.0	155,431	100.0	810	100.0	82,574	100.0	810	100.0	502,728
7/05[b]	Kvichak	0.0	0	6.6	37,923	5.8	31,726	17.9	119,300	0.0	0	3.4	12,146	0.0	0	9.3	201,096
thru	Naknek	0.0	0	21.2	121,536	37.3	203,035	10.2	67,981	20.2	701	31.6	111,765	65.8	2,285	23.5	507,303
9/07	Egegik	100.0	10,414	5.3	30,319	1.9	10,209	9.1	60,650	2.7	94	29.6	104,674	34.2	1,186	10.1	217,544
	Ugashik	0.0	0	66.9	382,978	55.1	300,016	62.8	418,551	77.1	2,676	35.4	125,482	0.0	0	57.1	1,229,704
	Total	100.0	10,414	100.0	572,757	100.0	544,986	100.0	666,482	100.0	3,471	100.0	354,067	100.0	3471	100.0	2,155,648
Total	Kvichak	0.0	0	11.5	80,955	11.5	77,080	24.6	202,300	0.0	0	4.9	21,422	0.0	0	14.4	381,757
	Naknek	0.0	0	18.0	126,975	31.9	214,481	8.5	69,846	17.5	749	26.4	115,131	55.2	2,364	19.9	529,545
	Egegik	100.0	12,843	7.7	54,650	3.1	20,530	11.0	90,493	4.9	209	36.9	161,206	44.8	1,917	12.9	341,848
	Ugashik	0.0	0	62.8	443,752	53.5	359,994	55.9	459,274	77.6	3,323	31.8	138,883	0.0	0	52.8	1,405,226
	Total	100.0	12,843	100.0	706,332	100.0	672,085	100.0	821,913	100.0	4,281	100.0	436,641	100.0	4,281	100.0	2,658,376

[a] Scale samples were collected from 18 June through 2 July. Stock composition estimates calculated from those dates were applied to 11 June through 4 July catches.

[b] Scale samples were collected from 7 through 10 July. Stock composition estimates calculated from those dates were applied to 5 July through 7 September catches.

Appendix E.3. Stock composition estimates of sockeye salmon catches by age group and date, Ugashik District, 1985.

		0.3		1.2		1.3		2.2		1.4		2.3		Total	
Date	System	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number
6/11[a]	Kvichak	100.0	208	2.7	1,093	14.7	7,660	6.5	2,994	0.0	0	24.6	1,740	9.4	13,695
thru	Naknek	0.0	0	18.7	7,519	19.0	9,901	16.9	7,785	0.0	0	19.7	1,393	18.3	26,597
6/27	Egegik	0.0	0	2.1	831	0.1	52	10.8	4,975	0.0	0	3.8	272	4.2	6,129
	Ugashik	0.0	0	76.5	30,784	66.2	34,495	65.8	30,309	0.0	0	52.0	3,682	68.1	99,271
	Total	100.0	208	100.0	40,227	100.0	52,108	100.0	46,063	0.0	0	100.0	7,087	100.0	145,693
6/29	Kvichak	100.0	3,366	3.5	20,533	26.9	217,700	0.9	7,987	0.0	0	30.2	43,022	12.1	292,608
thru	Naknek	0.0	0	6.4	37,316	11.9	96,306	0.3	2,662	2.7	29	6.4	9,098	6.0	145,411
7/06	Egegik	0.0	0	4.7	27,682	5.8	46,939	16.0	141,998	0.0	0	8.4	11,922	9.4	228,541
	Ugashik	0.0	0	85.4	498,426	55.4	448,348	82.8	734,838	97.3	1,050	55.1	78,469	72.5	1,761,131
	Total	100.0	3,366	100.0	583,957	100.0	809,293	100.0	887,486	100.0	1,079	100.0	142,510	100.0	2,427,691
7/07[b]	Kvichak	100.0	5,073	1.8	12,384	16.4	183,006	2.1	37,707	0.0	0	17.8	54,044	7.5	292,214
thru	Naknek	0.0	0	22.9	153,127	18.3	204,208	25.3	454,279	10.4	525	25.5	77,752	22.8	889,893
9/02	Egegik	0.0	0	1.9	12,787	1.9	21,202	6.7	120,303	0.0	0	3.8	11,469	4.3	165,761
	Ugashik	0.0	0	73.4	491,237	63.4	707,476	65.9	1,183,281	89.6	4,547	52.9	161,069	65.4	2,547,610
	Total	100.0	5,073	100.0	669,536	100.0	1,115,892	100.0	1,795,571	100.0	5,072	100.0	304,334	100.0	3,895,478
Total	Kvichak	100.0	8,647	2.6	34,010	20.7	408,366	1.8	48,688	0.0	0	21.8	98,805	9.3	598,517
	Naknek	0.0	0	15.3	197,962	15.7	310,415	17.0	464,727	9.0	555	19.4	88,243	16.4	1,061,901
	Egegik	0.0	0	3.2	41,299	3.4	68,193	9.8	267,276	0.0	0	5.2	23,663	6.2	400,431
	Ugashik	0.0	0	78.9	1,020,448	60.2	1,190,319	71.4	1,948,429	91.0	5,596	53.6	243,220	68.1	4,408,013
	Total	100.0	8,647	100.0	1,293,720	100.0	1,977,293	100.0	2,729,120	100.0	6,151	100.0	453,931	100.0	6,468,862

[a] Scale samples were collected on 27 June. Stock composition estimates calculated for that date were applied to 11 through 27 June catches.

[b] Scale samples were collected from 7 through 14 July. Stock composition estimates calculated from those dates were applied to 7 July through 2 September catches.

Appendix E.4. Stock composition estimates of sockeye salmon catches by age group and date, Ugashik District, 1986.

		0.3		1.2		1.3		2.2		1.4		2.3		3.2		2.4		Total	
Date	System	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number
6/07[a]	Kvichak	4.9	88	18.1	18,235	3.5	24,842	7.3	30,432	0.0	0	6.0	12,853	0.0	0	0.0	0	6.0	86,451
thru	Naknek	26.3	472	18.9	19,017	39.5	280,362	3.7	15,425	0.0	0	29.7	63,527	0.0	0	0.0	0	26.2	378,802
7/05	Egegik	12.4	222	34.1	34,358	0.0	0	33.4	139,238	0.0	0	15.6	33,371	100.0	1,797	0.0	0	14.5	208,987
	Ugashik	56.5	1,015	28.8	29,017	57.0	404,573	55.6	231,786	0.0	0	48.7	104,081	0.0	0	0.0	0	53.3	770,471
	Total	100.0	1,797	100.0	100,627	100.0	709,777	100.0	416,881	0.0	0	100.0	213,832	100.0	1,797	0.0	0	100.0	1,444,711
7/06	Kvichak	1.4	58	4.9	5,583	2.4	14,401	0.0	0	0.0	0	1.7	2,462	0.0	0	0.0	0	1.7	22,503
thru	Naknek	15.1	633	10.6	11,922	26.3	157,814	0.0	0	0.0	0	17.3	24,916	0.0	0	0.0	0	14.9	195,285
7/09	Egegik	19.5	820	52.6	59,341	0.0	0	45.7	204,661	0.0	0	25.0	36,058	100.0	735	0.0	0	23.0	301,615
	Ugashik	64.0	2,690	31.9	35,952	71.3	427,838	54.3	243,174	0.0	0	56.0	80,678	0.0	0	0.0	0	60.4	790,333
	Total	100.0	4,201	100.0	112,798	100.0	600,053	100.0	447,835	0.0	0	100.0	144,114	100.0	735	0.0	0	100.0	1,309,736
7/11	Kvichak	1.5	84	6.2	6,915	3.2	17,180	0.0	0	0.4	8	1.9	2,876	0.0	0	0.0	0	1.9	27,063
thru	Naknek	17.0	934	13.5	15,035	35.7	191,668	0.0	0	10.2	201	19.8	29,632	0.0	0	0.0	0	17.0	237,470
7/13	Egegik	13.8	758	42.1	46,861	0.0	0	26.3	155,643	1.9	37	18.0	26,852	0.0	0	13.7	270	16.5	230,420
	Ugashik	67.7	3,723	38.2	42,516	61.1	328,037	73.7	436,156	87.6	1,729	60.2	89,972	0.0	0	86.3	1,704	64.6	903,836
	Total	100.0	5,498	100.0	111,327	100.0	536,886	100.0	591,799	100.0	1,974	100.0	149,331	0.0	0	100.0	1,974	100.0	1,398,789
7/14[b]	Kvichak	0.2	5	1.0	491	0.5	1,412	0.0	0	0.0	1	0.3	327	0.0	0	0.0	0	0.3	2,236
thru	Naknek	2.3	59	2.2	1,071	5.6	15,815	0.0	0	1.2	31	2.9	3,383	0.0	0	0.0	0	2.4	20,358
8/28	Egegik	11.0	275	39.4	19,267	0.0	0	18.8	74,092	1.3	32	15.2	17,686	0.0	0	9.0	225	13.1	111,578
	Ugashik	86.5	2,171	57.4	28,120	93.9	265,175	81.2	320,014	97.4	2,446	81.7	95,330	0.0	0	91.0	2,285	84.2	715,541
	Total	100.0	2,510	100.0	48,949	100.0	282,402	100.0	394,106	100.0	2,510	100.0	116,726	0.0	0	100.0	2,510	100.0	849,713
Total	Kvichak	1.7	234	8.4	31,224	2.7	57,836	1.6	30,432	0.2	9	3.0	18,518	0.0	0	0.0	0	2.8	138,253
	Naknek	15.0	2,097	12.6	47,046	30.3	645,658	0.8	15,425	5.2	231	19.5	121,458	0.0	0	0.0	0	16.6	831,915
	Egegik	14.8	2,076	42.7	159,827	0.0	0	31.0	573,634	1.5	69	18.3	113,967	100.0	2,532	11.0	495	17.0	852,600
	Ugashik	68.5	9,599	36.3	135,604	67.0	1,425,624	66.6	1,231,130	93.1	4,175	59.2	370,060	0.0	0	89.0	3,989	63.6	3,180,181
	Total	100.0	14,006	100.0	373,701	100.0	2,129,118	100.0	1,850,621	100.0	4,484	100.0	624,003	100.0	2,532	100.0	4,484	100.0	5,002,949

[a] Scale samples were collected on 16 June. Stock composition estimates calculated for 16 June were applied to 7 June through 5 July catches.

[b] Scale samples were collected on 14 July. Stock composition estimates calculated for 14 July were applied to 14 July through 28 August catches.

Appendix E.5. Stock composition estimates of sockeye salmon catches by age group and date, Ugashik District, 1987.

		0.3		1.2		0.4		1.3		2.2		1.4		2.3		Other[a]		Total	
Date	System	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number
6/08[b] thru 7/02	Kvichak	0.0	0	9.5	5,595	3.1	48	0.3	310	0.5	213	0.0	0	0.0	0	0.0	0	1.8	6,166
	Naknek	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0
	Egegik	0.0	0	19.4	11,425	8.1	126	13.7	14,411	14.4	6,706	2.4	18	2.8	3,472	0.0	0	10.6	36,159
	Ugashik	100.0	3,100	71.1	41,874	88.8	1,376	86.0	90,668	85.1	39,576	97.6	757	97.2	120,515	100.0	775	87.6	298,640
	Total	100.0	3,100	100.0	58,894	100.0	1,550	100.0	105,389	100.0	46,495	100.0	775	100.0	123,987	100.0	775	100.0	340,965
7/04	Kvichak	0.0	0	15.1	12,087	0.0	0	0.5	426	1.0	568	0.0	0	0.0	0	0.0	0	3.9	13,082
	Naknek	0.0	0	0.0	0	0.0	0	25.2	21,474	8.2	4,658	54.2	350	21.8	23,784	0.0	0	15.1	50,266
	Egegik	0.0	0	16.3	13,048	0.0	0	10.4	8,862	13.4	7,612	1.2	8	0.1	109	0.0	0	8.9	29,639
	Ugashik	100.0	1,937	68.6	54,914	0.0	0	63.9	54,452	77.4	43,970	44.6	288	78.1	85,206	0.0	0	72.1	240,767
	Total	100.0	1,937	100.0	80,049	0.0	0	100.0	85,214	100.0	56,809	100.0	646	100.0	109,099	0.0	0	100.0	333,754
7/08 thru 7/09	Kvichak	0.0	0	17.4	12,067	0.0	0	0.6	482	1.2	827	0.0	0	0.0	0	0.0	0	4.1	13,375
	Naknek	0.0	0	11.7	8,114	0.0	0	23.8	19,103	7.6	5,417	52.1	334	11.6	11,843	0.0	0	13.8	44,811
	Egegik	0.0	0	15.4	10,680	0.0	0	9.5	7,625	12.1	8,641	1.0	7	0.0	0	0.0	0	8.3	26,953
	Ugashik	100.0	1,284	55.5	38,489	0.0	0	66.1	53,055	79.1	56,393	46.9	301	88.4	90,256	0.0	0	73.8	239,778
	Total	100.0	1,284	100.0	69,350	0.0	0	100.0	80,265	100.0	71,277	100.0	642	100.0	102,099	0.0	0	100.0	324,917
7/10 thru 7/12	Kvichak	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0
	Naknek	0.0	0	2.8	1,259	0.0	0	4.1	2,148	1.1	623	11.8	51	1.2	833	0.0	0	2.2	4,913
	Egegik	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0
	Ugashik	0.0	0	97.2	43,694	0.0	0	95.9	49,787	98.9	53,931	88.2	385	98.8	68,560	0.0	0	97.8	216,358
	Total	0.0	0	100.0	44,953	0.0	0	100.0	51,935	100.0	54,554	100.0	436	100.0	69,393	0.0	0	100.0	221,271
7/13	Kvichak	0.0	0	16.9	9,544	0.0	0	0.5	360	1.0	770	0.0	0	0.0	0	0.0	0	3.4	10,674
	Naknek	0.0	0	0.0	0	0.0	0	27.9	20,082	9.3	7,158	56.0	310	21.2	22,772	68.2	378	16.1	50,699
	Egegik	0.0	0	8.3	4,688	0.0	0	4.4	3,167	5.8	4,464	0.4	2	0.0	0	0.0	0	4.0	12,321
	Ugashik	0.0	0	74.8	42,244	0.0	0	67.2	48,370	83.9	64,572	43.6	241	78.8	84,642	31.8	176	76.5	240,246
	Total	0.0	0	100.0	56,476	0.0	0	100.0	71,979	100.0	76,963	100.0	554	100.0	107,414	0.0	554	100.0	313,940

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Appendix E.5. (p 2 of 2).

Date	System	0.3 %	0.3 Number	1.2 %	1.2 Number	0.4 %	0.4 Number	1.3 %	1.3 Number	2.2 %	2.2 Number	1.4 %	1.4 Number	2.3 %	2.3 Number	Other[a] %	Other[a] Number	Total %	Total Number
7/16[c] thru 9/18	Kvichak	0.0	0	7.6	6,191	0.0	0	0.2	252	0.3	400	0.0	0	0.0	0	0.0	0	1.2	6,844
	Naknek	0.0	0	0.0	0	0.0	0	24.1	35,301	7.9	10,545	0.0	0	16.2	37,207	0.0	0	13.9	83,053
	Egegik	0.0	0	4.0	3,259	0.0	0	1.6	2,314	2.0	2,670	0.0	0	0.0	0	100.0	981	1.6	9,222
	Ugashik	100.0	1,962	88.4	72,014	0.0	0	74.1	108,377	89.8	119,869	0.0	0	83.8	192,464	0.0	0	83.3	494,686
	Total	100.0	1,962	100.0	81,464	0.0	0	100.0	146,243	100.0	133,484	0.0	0	100.0	229,671	100.0	981	100.0	593,805
Total	Kvichak	0.0	0	11.6	45,485	3.1	48	0.3	1,830	0.6	2,778	0.0	0	0.0	0	0.0	0	2.4	50,141
	Naknek	0.0	0	2.4	9,373	0.0	0	18.2	98,107	6.5	28,400	34.3	1,046	13.0	96,438	16.4	378	10.9	233,742
	Egegik	0.0	0	11.0	43,099	8.1	126	6.7	36,379	6.8	30,093	1.1	35	0.5	3,581	42.4	981	5.4	114,294
	Ugashik	100.0	8,283	75.0	293,229	88.8	1,376	74.8	404,709	86.1	378,311	64.6	1,972	86.5	641,644	41.2	951	81.3	1,730,475
	Total	100.0	8,283	100.0	391,186	100.0	1,550	100.0	541,025	100.0	439,582	100.0	3,053	100.0	741,663	100.0	2,310	100.0	2,128,652

[a] Includes age-3.2 and -2.4

[b] Scale samples were collected on 2 July. Stock composition estimates calculated for 2 July were applied to 8 June through 2 July catches.

[c] Scale samples were collected on 17 July. Stock composition estimates calculated for 17 July were applied to 16 July through 18 September catches.

Appendix E.6. Stock composition estimates of sockeye salmon catches by age group and date, Ugashik District, 1988.

		0.3		1.2		2.1		1.3		2.2		1.4		2.3		Other[a]		Total	
Date	System	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number
6/07[b]	Kvichak	1.9	17	23.7	1,548	0.0	0	16.0	3,114	0.0	0	7.9	67	0.9	158	0.0	0	7.5	4,904
thru	Naknek	0.0	0	5.0	327	0.0	0	3.6	701	0.0	0	34.6	293	3.6	632	0.0	0	2.9	1,952
6/23	Egegik	0.0	0	28.5	1,862	0.0	0	62.6	12,184	87.5	17,649	35.4	301	55.2	9,687	0.0	0	63.5	41,682
	Ugashik	98.1	889	42.8	2,796	0.0	0	17.8	3,464	12.5	2,521	22.1	187	40.3	7,072	100.0	212	26.1	17,142
	Total	100.0	906	100.0	6,532	0.0	0	100.0	19,463	100.0	20,170	100.0	848	100.0	17,549	100.0	212	100.0	65,680
6/26	Kvichak	1.0	3	20.8	1,677	2.3	22	34.1	2,154	4.0	397	0.0	0	1.1	119	0.0	0	12.0	4,372
thru	Naknek	0.0	0	7.8	629	2.4	24	4.9	310	7.2	714	0.0	0	7.1	766	0.0	0	6.7	2,442
7/04	Egegik	0.0	0	4.0	322	12.6	124	11.3	714	31.8	3,152	0.0	0	9.9	1,068	0.0	0	14.7	5,380
	Ugashik	99.0	324	67.4	5,434	82.7	811	49.7	3,140	57.0	5,650	0.0	0	81.9	8,832	100.0	109	66.6	24,300
	Total	100.0	327	100.0	8,062	100.0	981	100.0	6,318	4.0	9,913	0.0	0	100.0	10,784	100.0	109	100.0	36,494
7/09	Kvichak	0.2	1	5.2	2,736	0.5	10	11.5	4,208	0.0	0	3.3	17	0.2	158	0.0	0	3.2	7,129
	Naknek	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0
	Egegik	0.0	0	2.3	1,182	5.9	120	7.1	2,598	19.3	11,868	5.4	27	4.8	3,341	50.0	508	8.7	19,645
	Ugashik	99.8	507	92.5	48,428	93.6	1,903	81.4	29,785	80.7	49,625	91.3	464	95.0	66,635	50.0	508	88.1	197,854
	Total	100.0	508	100.0	52,346	100.0	2,033	100.0	36,591	100.0	61,493	100.0	508	100.0	70,133	100.0	508	100.0	224,628
7/11	Kvichak	0.0	0	2.3	3,446	0.2	2	4.4	6,880	0.0	0	0.6	27	0.1	312	0.0	0	1.3	10,666
thru	Naknek	0.0	0	11.5	17,152	3.2	36	8.2	12,822	12.1	23,682	63.2	2,772	9.0	27,846	56.4	319	10.4	84,629
7/13	Egegik	0.0	0	1.8	2,619	5.0	57	0.2	313	21.1	41,296	1.7	76	3.7	11,627	0.0	0	6.8	55,988
	Ugashik	0.0	0	84.4	125,458	91.6	1,036	87.2	136,351	66.8	130,738	34.5	1,514	87.2	271,182	43.6	247	81.5	666,526
	Total	0.0	0	100.0	148,675	100.0	1,131	100.0	156,366	100.0	195,715	100.0	4,389	100.0	310,967	100.0	566	100.0	817,809
7/14[c]	Kvichak	0.0	0	8.3	6,572	0.9	31	16.6	8,092	3.3	3,847	1.7	45	0.4	494	3.6	26	5.0	19,107
thru	Naknek	0.0	0	17.3	13,783	5.4	184	22.7	11,065	13.4	15,619	74.0	1,961	14.6	18,588	0.0	0	16.2	61,200
9/13	Egegik	0.0	0	1.2	960	3.8	131	0.0	0	11.9	13,871	0.9	25	2.8	3,540	1.1	10	4.9	18,534
	Ugashik	0.0	0	73.2	58,253	89.9	3,063	60.7	29,588	71.4	83,226	23.4	619	82.2	104,596	95.3	724	73.9	280,068
	Total	0.0	0	100.0	79,568	100.0	3,408	100.0	48,744	100.0	116,563	100.0	2,649	100.0	127,217	0.0	760	100.0	378,909

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Appendix E.6. (p 2 of 2).

		0.3		1.2		2.1		1.3		2.2		1.4		2.3		Other[a]		Total	
Date	System	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number
Total	Kvichak	1.2	21	5.4	15,979	0.9	65	9.1	24,448	1.1	4,243	1.9	156	0.2	1,240	0.1	26	3.0	46,178
	Naknek	0.0	0	10.8	31,891	3.2	244	9.3	24,897	9.9	40,015	59.8	5,026	8.9	47,831	12.0	319	9.9	150,223
	Egegik	0.0	0	2.4	6,945	5.7	431	6.0	15,809	21.7	87,836	5.1	428	5.5	29,262	19.4	518	9.3	141,229
	Ugashik	98.8	1,720	81.4	240,368	90.2	6,813	75.6	202,328	67.3	271,760	33.2	2,784	85.4	458,317	67.5	1,800	77.8	1,185,890
	Total	100.0	1,741	100.0	295,183	100.0	7,553	100.0	267,482	100.0	403,854	100.0	8,394	100.0	536,650	100.0	2,663	100.0	1,523,520

[a] Includes age-0.2, -0.4, -2.4, -and -3.3

[b] Scale samples were collected from 17 and 23 June. Stock composition estimates calculated from those dates were applied to 7 June through 23 June catches.

[c] Scale samples were collected from 14 and 15 July. Stock composition estimates calculated from those dates were applied to 14 July through 13 September catches.

Appendix E.7. Stock composition estimates of sockeye salmon catches by age group and date, Ugashik District, 1989.

		0.3		1.2		1.3		2.2		1.4		2.3		Other[a]		Total	
Date	System	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number
6/06[b]	Kvichak	13.1	119	5.9	226	7.7	773	18.3	5,790	7.5	11	1.0	316	0.0	0	9.4	7,237
thru	Naknek	27.8	254	37.6	1,430	35.7	3,584	12.5	3,955	74.7	114	8.7	2,660	0.0	0	15.6	11,997
6/23	Egegik	0.0	0	19.6	745	28.8	2,892	42.1	13,321	17.8	27	85.3	26,077	0.0	0	55.8	43,061
	Ugashik	59.1	539	36.9	1,401	27.8	2,791	27.1	8,575	0.0	0	5.0	1,523	0.0	0	19.2	14,829
	Total	100.0	912	100.0	3,802	100.0	10,040	100.0	31,642	100.0	152	100.0	30,576	0.0	0	100.0	77,124
6/30	Kvichak	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0
thru	Naknek	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0
7/05	Egegik	0.0	0	0.8	202	1.5	351	2.3	3,117	0.0	0	20.6	3,069	0.0	0	3.4	6,739
	Ugashik	100.0	372	99.2	25,114	98.5	22,359	97.7	132,399	0.0	0	79.4	11,823	100.0	372	96.6	192,439
	Total	100.0	372	100.0	25,316	100.0	22,710	100.0	135,516	0.0	0	100.0	14,892	100.0	372	100.0	199,178
7/06	Kvichak	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0
thru	Naknek	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0
7/07	Egegik	0.0	0	5.6	3,029	10.4	7,611	14.8	53,230	0.0	0	65.7	25,339	0.0	0	16.9	89,208
	Ugashik	100.0	1,928	94.4	50,969	89.6	65,672	85.2	306,433	0.0	0	34.3	13,231	0.0	0	83.1	438,234
	Total	100.0	1,928	100.0	53,998	100.0	73,283	100.0	359,663	0.0	0	100.0	38,570	0.0	0	100.0	527,442
7/08	Kvichak	1.3	11	0.9	368	1.5	783	3.7	15,116	0.0	0	0.9	319	0.0	0	3.1	16,596
thru	Naknek	1.3	11	2.7	1,105	3.4	1,734	1.2	4,902	0.0	0	3.5	1,272	0.0	0	1.7	9,024
7/09	Egegik	0.0	0	1.0	398	1.9	965	2.8	11,439	0.0	0	24.0	8,642	0.0	0	4.0	21,444
	Ugashik	97.4	817	95.4	38,395	93.2	47,689	92.3	377,076	0.0	0	71.6	25,839	0.0	0	91.2	489,817
	Total	100.0	839	100.0	40,266	100.0	51,171	100.0	408,533	0.0	0	100.0	36,072	0.0	0	100.0	536,881
7/11	Kvichak	0.0	0	0.6	207	1.0	373	2.3	6,851	15.0	106	0.3	93	0.0	0	1.9	7,630
thru	Naknek	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	100.0	706	0.2	706
7/12	Egegik	0.0	0	4.8	1,623	8.9	3,329	12.6	37,530	85.0	600	61.8	18,325	0.0	0	15.3	61,408
	Ugashik	0.0	0	94.6	32,050	90.1	33,706	85.1	253,478	0.0	0	37.9	11,226	0.0	0	82.6	330,461
	Total	0.0	0	100.0	33,880	100.0	37,409	100.0	297,859	100.0	706	100.0	29,645	100.0	706	100.0	400,205

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Appendix E.7. (p 2 of 2).

		0.3		1.2		1.3		2.2		1.4		2.3		Other[a]		Total	
Date	System	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number
7/13	Kvichak	0.0	0	1.8	459	3.1	1,393	7.3	25,866	100.0	1,462	2.4	536	0.0	0	6.6	29,715
thru	Naknek	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0
7/14	Egegik	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0
	Ugashik	0.0	0	98.2	24,380	96.9	43,173	92.7	328,462	0.0	0	97.6	22,111	0.0	0	93.4	418,127
	Total	0.0	0	100.0	24,839	100.0	44,566	100.0	354,328	100.0	1,462	100.0	22,647	0.0	0	100.0	447,842
7/15[c]	Kvichak	0.0	0	1.7	790	2.8	3,100	6.6	48,782	36.5	319	1.6	902	0.7	25	5.6	53,917
thru	Naknek	0.0	0	1.4	666	1.7	1,924	0.6	4,435	48.6	424	1.8	1,014	23.8	872	1.0	9,334
9/01	Egegik	0.0	0	0.9	446	1.8	1,989	2.6	19,217	14.9	130	23.3	13,131	23.8	872	3.7	35,784
	Ugashik	0.0	0	96.0	45,205	93.7	103,438	90.2	666,684	0.0	0	73.3	41,308	51.7	1,895	89.7	858,532
	Total	0.0	0	100.0	47,107	100.0	110,451	100.0	739,118	100.0	872	100.0	56,355	100.0	3,664	100.0	957,567
Total	Kvichak	3.2	130	0.9	2,050	1.8	6,422	4.4	102,404	59.5	1,898	0.9	2,166	0.5	25	3.7	115,095
	Naknek	6.5	264	1.4	3,201	2.1	7,242	0.6	13,292	16.8	537	2.2	4,947	33.3	1,578	1.0	31,061
	Egegik	0.0	0	2.8	6,443	4.9	17,137	5.9	137,853	23.7	757	41.3	94,582	18.4	872	8.2	257,644
	Ugashik	90.3	3,657	94.9	217,514	91.2	318,829	89.1	2,073,110	0.0	0	55.6	127,062	47.8	2,267	87.1	2,742,439
	Total	100.0	4,051	100.0	229,208	100.0	349,630	100.0	2,326,659	100.0	3,192	100.0	228,757	100.0	4,742	100.0	3,146,239

[a] Includes age-0.2, -3.2, and -2.4

[b] Scale samples were collected from 19 through 22 June. Stock composition estimates calculated from those dates were applied to 6 June through 23 June catches.

[c] Scale samples were collected from 15, 16, and 19 July. Stock composition estimates calculated from those dates were applied to 15 July through 1 September catches.

Appendix E.8. Stock composition estimates of sockeye salmon catches by age group and date, Ugashik District, 1990.

		0.3		1.2		1.3		2.2		1.4		2.3		Other[a]		Total	
Date	System	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number
6/05	Kvichak	1.8	158	1.9	149	3.2	428	30.7	3,446	0.0	0	3.8	268	10.2	44	9.2	4,493
thru	Naknek	1.2	107	17.9	1,419	29.9	4,002	10.0	1,123	0.0	0	7.9	557	2.7	12	14.8	7,220
6/22	Egegik	0.7	59	49.3	3,899	15.6	2,093	46.2	5,186	0.0	0	44.9	3,166	17.5	76	29.8	14,479
	Ugashik	96.2	8,311	30.9	2,448	51.3	6,860	13.1	1,470	0.0	0	43.4	3,060	69.6	300	46.2	22,449
	Total	100.0	8,635	100.0	7,915	100.0	13,383	100.0	11,225	0.0	0	100.0	7,051	100.0	432	100.0	48,641
6/26	Kvichak	0.3	8	0.6	211	0.9	791	13.6	5,575	0.0	0	3.8	2,574	0.0	0	3.9	9,158
thru	Naknek	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0
7/04	Egegik	0.2	6	33.8	11,289	8.9	7,933	4.4	1,804	100.0	446	52.8	35,759	0.0	0	24.4	57,237
	Ugashik	99.5	2,660	65.6	21,916	90.2	80,385	82.0	33,613	0.0	0	43.4	29,393	0.0	0	71.7	167,966
	Total	100.0	2,674	100.0	33,416	100.0	89,110	100.0	40,991	100.0	446	100.0	67,725	0.0	0	100.0	234,362
7/06	Kvichak	0.3	26	0.6	683	0.8	1,625	6.6	13,190	0.0	0	7.6	16,668	1.8	47	4.2	32,241
thru	Naknek	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0
7/09	Egegik	0.2	17	26.9	31,095	6.6	13,858	12.8	25,581	100.0	3,893	41.7	91,456	5.5	142	21.8	166,042
	Ugashik	99.6	10,338	72.5	83,721	92.6	194,753	80.6	161,082	0.0	0	50.7	111,195	92.7	2,407	74.0	563,495
	Total	100.0	10,381	100.0	115,499	100.0	210,236	100.0	199,853	100.0	3,893	100.0	219,320	100.0	2,596	100.0	761,778
7/11	Kvichak	0.3	9	0.9	310	1.1	745	6.1	6,916	0.0	0	15.4	17,459	8.6	175	7.6	25,614
thru	Naknek	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0
7/12	Egegik	0.1	3	17.4	5,923	3.9	2,668	6.6	7,483	100.0	2,037	28.8	32,651	91.4	1,862	15.7	52,627
	Ugashik	99.6	2,704	81.6	27,711	95.0	65,154	87.3	98,974	0.0	0	55.8	63,262	0.0	0	76.7	257,804
	Total	100.0	2,716	100.0	33,944	100.0	68,567	100.0	113,372	100.0	2,037	100.0	113,372	100.0	2,037	100.0	336,045
7/13	Kvichak	0.3	4	0.6	207	0.8	316	8.3	8,040	0.0	0	6.3	5,046	0.0	0	5.4	13,613
thru	Naknek	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0
7/15	Egegik	0.2	3	29.2	9,787	7.3	2,795	12.3	11,914	0.0	0	51.6	41,332	100.0	1,397	26.7	67,227
	Ugashik	99.5	1,391	70.2	23,535	91.9	35,076	79.4	76,910	0.0	0	42.1	33,722	0.0	0	67.9	170,633
	Total	100.0	1,397	100.0	33,529	100.0	38,186	100.0	96,864	0.0	0	100.0	80,100	100.0	1,397	100.0	251,473

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Appendix E.8. (p 2 of 2).

		0.3		1.2		1.3		2.2		1.4		2.3		Other[a]		Total	
Date	System	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number
7/17 thru 9/07	Kvichak	0.2	0	0.6	611	0.7	766	8.4	17,518	0.0	0	6.3	6,471	0.0	0	4.9	25,367
	Naknek	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0
	Egegik	0.1	0	16.2	15,679	3.6	3,680	0.0	0	100.0	6,225	51.6	53,004	0.0	0	15.2	78,588
	Ugashik	99.7	0	83.1	80,205	95.7	98,273	91.6	191,034	0.0	0	42.1	43,245	0.0	0	79.9	412,756
	Total	100.0	0	100.0	96,494	100.0	102,719	100.0	208,552	100.0	6,225	100.0	102,720	0.0	0	100.0	516,710
Total	Kvichak	0.8	205	0.7	2,171	0.9	4,671	8.2	54,685	0.0	0	8.2	48,487	4.1	266	5.1	110,485
	Naknek	0.4	107	0.4	1,419	0.8	4,002	0.2	1,123	0.0	0	0.1	557	0.2	12	0.3	7,220
	Egegik	0.3	88	24.2	77,671	6.3	33,028	7.7	51,968	100.0	12,601	43.6	257,367	53.8	3,476	20.3	436,199
	Ugashik	98.5	25,403	74.7	239,535	92.0	480,500	83.9	563,082	0.0	0	48.1	283,877	41.9	2,708	74.3	1,595,105
	Total	100.0	25,803	100.0	320,797	100.0	522,201	100.0	670,857	100.0	12,601	100.0	590,288	100.0	6,462	100.0	2,149,009

[a] Other includes ages-0.2, -3.2, and -2.4.

[b] Scale samples were collected from 22 June. Stock composition estimates calculated from that date were applied to 5 June through 22 June catches.

[c] Scale samples were collected from 17 July. Stock composition estimates calculated from that date were applied to 17 July through 7 September catches.

Appendix E.9. Stock composition estimates of sockeye salmon catches by age group and date, Ugashik District, 1991.

		0.3		1.2		1.3		2.2		1.4		2.3		Other[a]		Total	
Date	System	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number
6/10[b]	Kvichak	42.6	262	17.2	234	1.0	67	1.5	30	0.0	0	5.1	89	100.0	246	7.4	927
thru	Naknek	11.4	70	2.4	32	6.5	433	1.4	28	0.0	0	7.9	136	0.0	0	5.6	699
6/21	Egegik	16.6	102	43.2	586	65.8	4,381	76.6	1,511	0.0	0	74.4	1,283	0.0	0	62.5	7,864
	Ugashik	29.5	181	37.2	505	26.7	1,778	20.5	404	0.0	0	12.6	217	0.0	0	24.5	3,086
	Total	100.0	616	100.0	1,357	100.0	6,658	100.0	1,973	0.0	0	100.0	1,726	100.0	246	100.0	12,576
7/03	Kvichak	52.8	308	29.9	10,299	2.4	3,655	5.2	5,015	0.0	0	20.6	4,340	0.0	0	7.7	23,617
thru	Naknek	9.6	56	2.8	966	15.7	23,907	4.7	4,533	0.0	0	21.7	4,567	0.0	0	11.2	34,029
7/05	Egegik	0.4	3	1.6	547	3.4	5,177	6.3	6,076	0.0	0	6.3	1,328	0.0	0	4.3	13,132
	Ugashik	37.2	217	65.8	22,677	78.5	119,534	83.8	80,825	0.0	0	51.4	10,808	0.0	0	76.8	234,062
	Total	100.0	584	100.0	34,489	100.0	152,273	100.0	96,450	0.0	0	100.0	21,044	0.0	0	100.0	304,840
7/06	Kvichak	67.6	0	49.0	17,233	4.4	7,297	10.7	9,700	0.0	0	29.2	9,033	0.0	0	13.4	43,263
thru	Naknek	12.7	0	4.7	1,666	29.3	48,591	9.8	8,884	0.0	0	31.7	9,798	0.0	0	21.3	68,940
7/08	Egegik	0.6	0	2.9	1,015	8.9	14,760	10.7	9,700	0.0	0	9.9	3,065	100.0	703	9.0	29,243
	Ugashik	19.1	0	43.3	15,221	57.4	95,192	68.8	62,368	0.0	0	29.2	9,023	0.0	0	56.2	181,805
	Total	100.0	0	100.0	35,136	100.0	165,840	100.0	90,651	0.0	0	100.0	30,920	100.0	703	100.0	323,250
7/09	Kvichak	69.5	1,287	52.8	46,956	4.8	24,268	11.5	25,131	0.0	0	27.5	37,122	0.0	0	14.2	134,764
thru	Naknek	14.4	267	5.6	5,002	31.9	161,283	10.4	22,727	0.0	0	32.8	44,355	0.0	0	24.6	233,634
7/10	Egegik	1.3	24	6.4	5,657	17.9	90,500	25.1	54,852	0.0	0	19.0	25,753	0.0	0	18.6	176,786
	Ugashik	14.8	274	35.2	31,279	45.4	229,537	53.0	115,822	0.0	0	20.7	27,964	0.0	0	42.6	404,878
	Total	100.0	1,852	100.0	88,894	100.0	505,589	100.0	218,533	0.0	0	100.0	135,194	0.0	0	100.0	950,062
7/11	Kvichak	68.9	810	49.2	34,665	3.9	10,588	10.2	20,140	4.8	113	28.9	17,637	0.0	0	13.9	83,953
thru	Naknek	11.2	132	4.1	2,905	26.4	71,675	9.3	18,363	93.0	2,186	27.1	16,577	0.0	0	18.5	111,839
7/13	Egegik	1.0	12	4.8	3,374	16.8	45,612	13.9	27,446	2.2	51	16.2	9,887	100.0	1,175	14.5	87,557
	Ugashik	18.8	221	41.9	29,573	52.9	143,622	66.6	131,503	0.0	0	27.8	17,015	0.0	0	53.2	321,935
	Total	100.0	1,175	100.0	70,518	100.0	271,498	100.0	197,452	100.0	2,350	100.0	61,116	100.0	1,175	100.0	605,284

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Appendix E.9. (p 2 of 2).

		0.3		1.2		1.3		2.2		1.4		2.3		Other[a]		Total	
Date	System	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number
7/14[c]	Kvichak	70.3	1,371	51.2	55,075	4.2	11,947	11.0	28,337	5.3	104	32.9	31,005	0.0	0	17.1	127,839
thru	Naknek	10.4	202	3.9	4,176	28.4	80,784	10.1	26,018	93.6	1,825	28.0	26,368	0.0	0	18.6	139,373
9/03	Egegik	0.5	9	2.1	2,293	9.6	27,307	5.3	13,653	1.0	20	7.9	7,433	100.0	1,949	7.0	52,664
	Ugashik	18.8	367	42.8	46,117	57.8	164,412	73.6	189,599	0.0	0	31.2	29,360	0.0	0	57.3	429,854
	Total	100.0	1,949	100.0	107,661	100.0	284,449	100.0	257,607	100.0	1,949	100.0	94,166	100.0	1,949	100.0	749,730
Total	Kvichak	65.4	4,037	48.6	164,462	4.2	57,822	10.2	88,353	5.0	217	28.8	99,226	6.0	246	14.1	414,363
	Naknek	11.8	727	4.4	14,747	27.9	386,673	9.3	80,553	93.3	4,011	29.6	101,802	0.0	0	20.0	588,513
	Egegik	2.4	150	4.0	13,473	13.5	187,737	13.1	113,238	1.7	71	14.2	48,750	94.0	3,827	12.5	367,246
	Ugashik	20.4	1,261	43.0	145,373	54.4	754,076	67.3	580,522	0.0	0	27.4	94,388	0.0	0	53.4	1,575,620
	Total	100.0	6,176	100.0	338,055	100.0	1,386,307	100.0	862,666	100.0	4,299	100.0	344,166	100.0	4,073	100.0	2,945,742

[a] Other includes ages-0.4 and -3.3.

[b] Scale samples were collected on 21 June. Stock composition estimates calculated for that date were applied to 11 through 21 June catches.

[c] Scale samples were collected on 15 July. Stock composition estimates calculated for that date were applied to 14 July through 3 September catches.

Appendix E.10. Stock composition estimates of sockeye salmon catches by age group and date, Ugashik District, 1992.

		1.2		1.3		2.2		1.4		2.3		3.2		2.4		Total	
Date	System	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number
6/11[a]	Kvichak	1.5	74	0.4	145	0.0	0	0.1	1	0.7	219	0.0	0	0.0	0	0.5	439
thru	Naknek	7.3	352	8.6	3,269	0.0	0	65.4	572	12.5	3,917	0.0	0	0.0	0	8.5	8,110
7/05	Egegik	4.1	198	13.4	5,111	38.4	7,658	2.1	18	11.0	3,447	82.2	0	0.0	0	17.3	16,432
	Ugashik	87.1	4,197	77.6	29,599	61.6	12,284	32.5	284	75.8	23,752	17.8	0	0.0	0	73.7	70,117
	Total	100.0	4,821	100.0	38,125	100.0	19,942	100.0	875	100.0	31,335	100.0	0	0.0	0	100.0	95,098
7/06	Kvichak	0.8	265	0.2	401	0.0	0	0.1	9	0.4	941	0.0	0	0.0	0	0.3	1,616
thru	Naknek	3.8	1,253	4.8	8,963	0.0	0	48.7	7,072	7.1	16,705	0.0	0	0.0	0	5.7	33,993
7/13	Egegik	1.2	404	4.3	8,014	14.0	18,142	0.9	128	3.8	8,941	55.9	738	0.0	0	6.1	36,366
	Ugashik	94.2	31,151	90.7	169,047	86.0	111,444	50.4	7,317	88.7	208,696	44.1	582	0.0	0	88.0	528,237
	Total	100.0	33,072	100.0	186,426	100.0	129,586	100.0	14,525	100.0	235,283	100.0	1,320	0.0	0	100.0	600,212
7/14	Kvichak	24.3	8,632	8.0	17,453	5.2	13,714	4.4	427	13.7	37,671	0.0	0	100.0	1,204	9.9	79,102
	Naknek	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0
	Egegik	0.7	257	3.1	6,794	7.8	20,572	1.2	120	3.0	8,249	48.5	0	0.0	0	4.5	35,991
	Ugashik	75.0	26,657	88.8	192,874	87.0	229,453	94.4	9,242	83.3	229,052	51.5	0	0.0	0	85.7	687,277
	Total	100.0	35,545	100.0	217,121	100.0	263,739	100.0	9,789	100.0	274,972	100.0	0	100.0	1,204	100.0	802,370
7/15[b]	Kvichak	1.0	880	0.3	1,584	0.0	0	0.1	24	0.7	3,544	0.0	0	1.3	52	0.3	6,084
thru	Naknek	5.0	4,358	6.3	37,026	0.0	0	55.7	19,599	13.0	65,824	0.0	0	98.7	3,922	7.2	130,729
9/01	Egegik	1.3	1,110	4.4	26,164	5.9	35,228	0.8	280	9.7	49,115	57.1	1,305	0.0	0	6.2	113,202
	Ugashik	92.8	81,577	89.0	525,733	94.1	561,859	43.4	15,267	76.6	387,853	42.9	981	0.0	0	86.3	1,573,271
	Total	100.0	87,925	100.0	590,508	100.0	597,087	100.0	35,170	100.0	506,336	100.0	2,286	100.0	3,974	100.0	1,823,286
Total	Kvichak	6.1	9,850	1.9	19,584	1.4	13,714	0.8	460	4.0	42,376	0.0	0	24.3	1,256	2.6	87,241
	Naknek	3.7	5,963	4.8	49,259	0.0	0	45.1	27,243	8.2	86,446	0.0	0	75.7	3,922	5.2	172,832
	Egegik	1.2	1,969	4.5	46,083	8.1	81,600	0.9	545	6.7	69,751	56.7	2,043	0.0	0	6.1	201,991
	Ugashik	89.0	143,582	88.9	917,254	90.6	915,040	53.2	32,110	81.1	849,353	43.3	1,563	0.0	0	86.1	2,858,902
	Total	100.0	161,363	100.0	1,032,180	100.0	1,010,354	100.0	60,359	100.0	1,047,926	100.0	3,606	100.0	5,178	100.0	3,320,966

[a] Scale samples were collected on 29 June. Stock composition estimates calculated for that date were applied to 11 June through 5 July catches.

[b] Scale samples were collected on 15,17, and 18 July. Stock composition estimates calculated for those dates were applied to 15 July through 1 September catches.

Appendix E.11. Stock composition estimates of sockeye salmon catches by age group and date, Ugashik District, 1993.

		1.2		1.3		2.2		1.4		2.3		2.4		Other[a]		Total	
Date	System	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number
6/09[b]	Kvichak	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0
thru	Naknek	10.7	2,408	29.8	8,972	8.2	3,791	53.3	728	22.5	18,698	0.0	0	0.0	0	18.7	34,596
6/30	Egegik	3.6	806	15.1	4,541	52.4	24,227	33.2	454	42.2	35,098	0.0	0	0.0	0	35.3	65,127
	Ugashik	85.8	19,378	55.2	16,628	39.4	18,217	13.5	185	35.3	29,408	0.0	0	100.0	1,034	46.0	84,849
	Total	100.0	22,592	100.0	30,141	100.0	46,235	100.0	1,366	100.0	83,204	0.0	0	100.0	1,034	100.0	184,572
7/01	Kvichak	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0
thru	Naknek	16.7	24,044	45.4	61,961	21.1	63,570	81.1	4,888	45.5	166,472	0.0	0	0.0	0	33.6	320,935
7/06	Egegik	0.7	991	2.8	3,861	16.6	50,013	6.2	375	10.5	38,472	0.0	0	0.0	0	9.8	93,713
	Ugashik	82.6	118,911	51.7	70,568	62.3	187,698	12.6	762	44.0	160,897	0.0	0	100.0	2,965	56.6	541,801
	Total	100.0	143,946	100.0	136,390	100.0	301,281	100.0	6,026	100.0	365,841	0.0	0	100.0	2,965	100.0	956,449
7/07	Kvichak	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0
thru	Naknek	10.8	10,034	33.4	44,285	14.0	64,803	72.5	3,559	33.7	167,972	53.4	2,620	0.0	0	24.5	293,273
7/08	Egegik	0.7	646	3.3	4,310	17.2	79,615	8.7	427	12.2	60,620	5.6	275	0.0	0	12.2	145,894
	Ugashik	88.5	82,590	63.3	83,947	68.8	318,461	18.8	923	54.2	270,207	41.0	2,013	0.0	0	63.3	758,143
	Total	100.0	93,270	100.0	132,542	100.0	462,880	100.0	4,909	100.0	498,800	100.0	4,909	0.0	0	100.0	1,197,310
7/09	Kvichak	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0
	Naknek	13.1	2,056	39.1	6,759	18.6	41,452	0.0	0	41.4	67,172	60.5	957	1.2	97	27.7	118,492
	Egegik	0.3	46	1.3	230	8.0	17,829	0.0	0	5.2	8,487	2.2	35	81.7	6,395	7.7	33,022
	Ugashik	86.6	13,592	59.5	10,289	73.4	163,578	0.0	0	53.4	86,770	37.3	590	17.1	1,336	64.6	276,155
	Total	100.0	15,695	100.0	17,278	100.0	222,858	0.0	0	100.0	162,429	100.0	1,582	100.0	7,827	100.0	427,669
7/10	Kvichak	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0
thru	Naknek	9.9	5,264	31.2	25,804	12.4	44,566	69.0	1,068	30.7	95,985	50.4	779	3.7	116	21.3	173,583
7/12	Egegik	0.9	465	4.2	3,445	20.9	75,116	11.4	176	15.2	47,524	7.3	112	66.3	2,053	15.8	128,890
	Ugashik	89.2	47,429	64.7	53,541	66.7	239,724	19.6	303	54.1	169,009	42.4	655	29.9	926	62.8	511,586
	Total	100.0	53,158	100.0	82,790	100.0	359,406	100.0	1,547	100.0	312,518	100.0	1,547	100.0	3,094	100.0	814,060

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Appendix E.11. (p 2 of 2).

		1.2		1.3		2.2		1.4		2.3		2.4		Other[a]		Total	
Date	System	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number
7/13[c]	Kvichak	2.6	907	3.2	1,526	3.3	7,169	0.3	17	0.2	699	0.0	0	0.0	0	1.7	10,318
thru	Naknek	3.4	1,203	12.9	6,126	4.9	10,645	47.7	2,902	14.1	40,554	26.5	650	0.0	0	10.4	62,079
8/17	Egegik	0.4	144	2.3	1,109	11.2	24,332	10.6	648	9.5	27,229	5.2	127	100.0	1,194	9.2	54,783
	Ugashik	93.6	33,139	81.6	38,867	80.6	175,104	41.4	2,520	76.1	218,359	68.3	1,670	0.0	0	78.7	469,659
	Total	100.0	35,393	100.0	47,628	100.0	217,250	100.0	6,087	100.0	286,841	100.0	2,447	100.0	1,194	100.0	596,840
Total	Kvichak	0.2	907	0.3	1,526	0.4	7,169	0.1	17	0.0	699	0.0	0	0.0	0	0.2	10,318
	Naknek	12.4	45,008	34.4	153,907	14.2	228,828	65.9	13,145	32.6	556,853	47.7	5,006	1.3	213	24.0	1,002,959
	Egegik	0.9	3,099	3.9	17,497	16.8	271,132	10.4	2,080	12.7	217,431	5.2	550	59.8	9,641	12.5	521,429
	Ugashik	86.5	315,040	61.3	273,839	68.5	1,102,781	23.5	4,694	54.7	934,650	47.0	4,929	38.9	6,260	63.3	2,642,194
	Total	100.0	364,054	100.0	446,769	100.0	1,609,910	100.0	19,935	100.0	1,709,633	100.0	10,485	100.0	16,114	100.0	4,176,900

[a] Other includes ages-0.3, -2.1 and -3.2.

[b] Scale samples were collected on 30 June. Stock composition estimates calculated for that date were applied to 7 through 30 June catches.

[c] Scale samples were collected on 13 July. Stock composition estimates calculated for that date were applied to 13 July through 17 August catches.

Appendix E.12. Stock composition estimates of sockeye salmon catches by age group and date, Ugashik District, 1994.

		1.2		1.3		2.2		1.4		2.3		3.3		Other [a]		Total	
Date	System	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number
6/06 [b]	Kvichak	15.5	2,218	18.9	2,390	20.4	6,076	5.4	22	1.8	898	0.0	0	77.8	2,817	13.0	14,420
thru	Naknek	4.2	604	10.8	1,375	1.3	387	29.1	117	1.8	900	0.0	0	0.7	25	3.1	3,408
7/01	Egegik	16.3	2,329	9.0	1,141	27.6	8,220	65.5	263	45.4	22,461	100.0	402	17.4	632	32.0	35,448
	Ugashik	63.9	9,136	61.3	7,771	50.7	15,100	0.0	0	51.0	25,243	0.0	0	4.1	147	51.9	57,398
	Total	100.0	14,287	100.0	12,677	100.0	29,783	100.0	402	100.0	49,502	100.0	402	100.0	3,621	100.0	110,674
7/02	Kvichak	8.2	814	10.3	816	11.7	2,214	4.7	0	1.0	265	0.0	0	61.9	1,452	8.5	5,560
thru	Naknek	2.1	208	5.6	441	0.7	132	23.9	0	1.0	249	0.0	0	0.8	18	1.6	1,048
7/03	Egegik	10.8	1,070	6.1	487	19.8	3,746	71.5	0	31.7	8,277	100.0	0	17.5	409	21.4	13,989
	Ugashik	78.9	7,820	78.0	6,185	67.8	12,828	0.0	0	66.4	17,341	0.0	0	19.8	464	68.4	44,638
	Total	100.0	9,912	100.0	7,929	100.0	18,921	100.0	0	100.0	26,131	100.0	0	100.0	2,342	100.0	65,235
7/04	Kvichak	8.2	3,039	10.3	3,331	11.7	10,063	4.7	87	1.0	1,741	0.0	0	36.4	3,700	6.5	21,961
thru	Naknek	2.1	777	5.6	1,799	0.7	602	23.9	441	1.0	1,639	0.0	0	1.6	166	1.6	5,424
7/06	Egegik	10.8	3,992	6.1	1,988	19.8	17,030	71.5	1,322	31.7	54,487	100.0	925	31.9	3,246	24.4	82,991
	Ugashik	78.9	29,187	78.0	25,251	67.8	58,315	0.0	0	66.4	114,152	0.0	0	30.1	3,063	67.6	229,968
	Total	100.0	36,994	100.0	32,369	100.0	86,011	100.0	1,850	100.0	172,020	100.0	925	100.0	10,175	100.0	340,344
7/07	Kvichak	8.7	3,481	10.4	5,814	13.8	27,633	16.9	582	1.4	3,505	13.8	190	28.6	1,381	7.6	42,586
thru	Naknek	2.2	862	5.4	3,044	0.8	1,602	83.1	2,870	1.3	3,196	0.8	11	1.9	93	2.1	11,676
7/09	Egegik	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0
	Ugashik	89.2	35,704	84.2	47,071	85.4	171,002	0.0	0	97.3	245,319	85.4	1,179	69.5	3,359	90.3	503,633
	Total	100.0	40,047	100.0	55,928	100.0	200,236	100.0	3,452	100.0	252,019	100.0	1,380	100.0	4,833	100.0	557,895
7/10	Kvichak	10.5	1,849	12.4	6,366	16.5	27,917	16.3	478	1.7	3,948	0.0	0	27.6	1,624	8.8	42,182
thru	Naknek	2.7	479	6.8	3,484	1.0	1,692	83.7	2,464	1.6	3,764	0.0	0	3.6	209	2.5	12,091
7/12	Egegik	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0
	Ugashik	86.8	15,327	80.9	41,644	82.5	139,584	0.0	0	96.7	223,275	0.0	0	68.9	4,051	88.6	423,881
	Total	100.0	17,655	100.0	51,494	100.0	169,193	100.0	2,942	100.0	230,986	0.0	0	100.0	5,884	100.0	478,154

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Appendix E.12. (p 2 of 2).

		1.2		1.3		2.2		1.4		2.3		3.3		Other [a]		Total	
Date	System	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number
7/13	Kvichak	6.4	879	7.9	3,165	9.8	17,490	7.2	239	0.9	1,784	0.0	0	0.0	0	5.4	23,557
	Naknek	1.7	230	4.4	1,750	0.6	1,071	37.6	1,244	0.9	1,718	0.0	0	0.3	12	1.4	6,025
	Egegik	4.2	578	2.4	946	8.3	14,813	55.1	1,822	14.0	27,935	100.0	1,102	49.4	2,176	11.2	49,371
	Ugashik	87.8	12,084	85.4	34,350	81.3	145,097	0.0	0	84.2	167,414	0.0	0	50.3	2,218	82.1	361,162
	Total	100.0	13,770	100.0	40,210	100.0	178,471	100.0	3,305	100.0	198,851	100.0	1,102	100.0	4,406	100.0	440,115
7/14	Kvichak	5.8	1,539	7.2	2,837	9.1	23,338	8.2	324	0.8	2,159	0.0	0	16.7	1,322	5.3	31,520
	Naknek	1.6	434	4.3	1,689	0.6	1,539	45.8	1,816	0.9	2,239	0.0	0	1.9	150	1.3	7,866
	Egegik	2.8	748	1.6	627	5.7	14,618	46.1	1,826	9.7	25,005	100.0	0	9.7	767	7.4	43,592
	Ugashik	89.7	23,719	87.0	34,507	84.6	216,967	0.0	0	88.5	227,061	0.0	0	71.8	5,693	86.0	507,946
	Total	100.0	26,440	100.0	39,660	100.0	256,462	100.0	3,966	100.0	256,464	100.0	0	100.0	7,932	100.0	590,924
7/15 [c]	Kvichak	4.2	1,652	5.3	4,787	6.7	51,867	8.2	1,593	0.6	4,967	0.0	0	0.0	0	3.7	64,866
thru	Naknek	1.1	421	2.8	2,581	0.4	3,097	41.4	8,082	0.6	4,665	0.0	0	0.0	0	1.1	18,846
9/01	Egegik	2.3	880	1.3	1,160	4.6	35,610	50.4	9,841	7.8	63,050	100.0	19,516	37.5	4,883	7.6	134,941
	Ugashik	92.4	36,079	90.6	82,547	88.3	683,562	0.0	0	91.1	740,488	0.0	0	62.5	8,128	87.6	1,550,804
	Total	100.0	39,032	100.0	91,075	100.0	774,136	100.0	19,516	100.0	813,170	100.0	19,516	100.0	13,011	100.0	1,769,456
Total	Kvichak	7.9	15,471	8.9	29,505	9.7	166,598	9.4	3,325	1.0	19,267	0.8	190	23.6	12,295	5.7	246,651
	Naknek	2.0	4,014	4.9	16,163	0.6	10,122	48.1	17,034	0.9	18,370	0.0	11	1.3	673	1.5	66,385
	Egegik	4.8	9,597	1.9	6,348	5.5	94,038	42.5	15,075	10.0	201,215	94.1	21,945	23.1	12,113	8.3	360,331
	Ugashik	85.3	169,055	84.3	279,326	84.2	1,442,456	0.0	0	88.1	1,760,292	5.1	1,179	52.0	27,124	84.5	3,679,430
	Total	100.0	198,137	100.0	331,342	100.0	1,713,213	100.0	35,433	100.0	1,999,143	100.0	23,325	100.0	52,204	100.0	4,352,797

[a] Other includes age-0.2, -0.3, -2.1, -3.2, and -2.4.

[b] Scale samples were collected on 27 and 30 June. Stock composition estimates calculated for these dates were applied to 6 June through 1 July catches.

[c] Scale samples were collected on 15 July. Stock composition estimates calculated for that date were applied to 15 July through 1 September catches.

Appendix E.13. Stock composition estimates of sockeye salmon catches by age group and date, Ugashik District, 1995.

		1.2		1.3		2.2		1.4		2.3		3.3		Other [a]		Total	
Date	System	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number
6/12 [b]	Kvichak	2.4	1,273	2.7	684	12.6	7,427	0.0	0	6.3	1,907	0.0	0	0.5	1	6.7	11,292
thru	Naknek	0.5	253	2.8	704	0.8	472	0.0	0	1.1	340	0.0	0	0.2	1	1.0	1,770
6/26	Egegik	15.4	8,299	19.9	4,990	57.8	34,071	0.0	0	65.3	19,773	0.0	0	99.3	271	40.0	67,404
	Ugashik	81.7	44,210	74.6	18,729	28.8	16,976	0.0	0	27.3	8,272	0.0	0	0.0	0	52.3	88,187
	Total	100.0	54,035	100.0	25,107	100.0	58,946	0.0	0	100.0	30,292	0.0	0	100.0	273	100.0	168,653
6/27	Kvichak	2.4	2,103	2.8	1,132	18.1	14,210	0.0	0	9.7	3,675	0.0	0	100.0	405	8.7	21,525
thru	Naknek	0.5	436	3.0	1,217	1.2	942	0.0	0	1.8	685	0.0	0	0.0	0	1.3	3,280
6/29	Egegik	6.5	5,782	8.7	3,480	35.0	27,477	0.0	0	42.2	16,067	100.0	405	0.0	0	21.6	53,211
	Ugashik	90.6	80,708	85.5	34,233	45.7	35,878	0.0	0	46.3	17,612	0.0	0	0.0	0	68.4	168,431
	Total	100.0	89,029	100.0	40,062	100.0	78,507	0.0	0	100.0	38,039	100.0	405	100.0	405	100.0	246,447
6/30	Kvichak	0.9	1,620	1.1	840	8.6	16,160	0.0	0	4.4	3,749	0.0	0	0.6	7	4.2	22,376
thru	Naknek	0.2	354	1.2	949	0.6	1,127	0.0	0	0.9	736	0.0	0	0.2	2	0.6	3,168
7/03	Egegik	4.5	8,221	6.2	4,763	30.7	57,687	100.0	512	35.8	30,262	0.0	0	99.2	1,015	19.2	102,460
	Ugashik	94.4	172,080	91.5	70,250	60.1	112,932	0.0	0	58.9	49,735	0.0	0	0.0	0	76.0	404,997
	Total	100.0	182,275	100.0	76,802	100.0	187,906	100.0	512	100.0	84,482	0.0	0	100.0	1,024	100.0	533,001
7/04	Kvichak	9.3	6,380	10.3	1,944	52.6	66,300	0.0	0	35.1	18,969	13.8	141	4.5	46	34.7	93,780
thru	Naknek	1.9	1,290	10.8	2,035	3.4	4,286	0.0	0	6.4	3,449	0.8	8	35.6	364	4.2	11,432
7/05	Egegik	3.0	2,052	3.7	699	11.9	15,000	0.0	0	17.9	9,702	0.0	0	59.9	610	10.4	28,063
	Ugashik	85.8	59,170	75.2	14,203	32.1	40,461	0.0	0	40.6	21,973	85.4	872	0.0	0	50.7	136,679
	Total	100.0	68,892	100.0	18,881	100.0	126,047	0.0	0	100.0	54,093	100.0	1,021	100.0	1,020	100.0	269,954
7/06	Kvichak	1.9	5,472	2.3	1,704	18.7	54,411	0.0	0	10.4	9,995	0.0	0	12.9	438	9.5	72,020
thru	Naknek	0.4	1,100	2.4	1,772	1.2	3,491	0.0	0	1.9	1,804	0.0	0	0.4	14	1.1	8,181
7/08	Egegik	2.5	7,237	3.4	2,523	17.4	50,628	0.0	0	21.8	21,024	0.0	0	55.8	1,888	11.0	83,300
	Ugashik	95.2	278,852	91.9	68,436	62.7	182,439	0.0	0	65.9	63,604	0.0	0	30.9	1,044	78.4	594,375
	Total	100.0	292,661	100.0	74,435	100.0	290,969	0.0	0	100.0	96,427	0.0	0	100.0	3,384	100.0	757,876

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Appendix E.13. (p 2 of 2).

		1.2		1.3		2.2		1.4		2.3		3.3		Other [a]		Total	
Date	System	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number
7/09	Kvichak	0.5	496	0.6	223	5.9	6,725	0.0	0	3.1	1,129	0.0	0	0.4	6	2.9	8,579
thru	Naknek	0.1	105	0.7	245	0.4	456	0.0	0	0.6	215	0.0	0	5.6	100	0.4	1,121
7/12	Egegik	1.8	1,804	2.5	909	15.1	17,211	0.0	0	17.9	6,533	100.0	587	60.7	1,069	9.6	28,113
	Ugashik	97.6	100,407	96.2	35,635	78.6	89,585	0.0	0	78.4	28,548	0.0	0	33.3	586	87.1	254,761
	Total	100.0	102,812	100.0	37,012	100.0	113,977	0.0	0	100.0	36,425	100.0	587	100.0	1,761	100.0	292,574
7/13	Kvichak	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0
thru	Naknek	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0
7/16	Egegik	0.1	301	0.2	142	1.3	4,633	100.0	4,710	1.5	2,231	100.0	3,140	0.0	0	1.8	15,157
	Ugashik	99.9	244,619	99.8	81,498	98.7	351,755	0.0	0	98.5	142,209	0.0	0	100.0	1,570	98.2	821,651
	Total	100.0	244,920	100.0	81,640	100.0	356,388	100.0	4,710	100.0	144,440	100.0	3,140	100.0	1,570	100.0	836,808
7/17	Kvichak	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0
thru	Naknek	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0
7/18	Egegik	0.4	802	0.6	505	4.0	14,981	100.0	1,767	4.7	8,270	0.0	0	100.0	3,534	3.5	29,859
	Ugashik	99.6	205,893	99.4	91,359	96.0	359,540	0.0	0	95.3	166,625	0.0	0	0.0	0	96.5	823,417
	Total	100.0	206,695	100.0	91,864	100.0	374,521	100.0	1,767	100.0	174,895	0.0	0	100.0	3,534	100.0	853,276
7/19 [c]	Kvichak	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0
thru	Naknek	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0
8/29	Egegik	0.8	648	1.1	716	7.9	18,050	100.0	4,173	9.3	15,861	100.0	2,087	0.0	0	7.5	41,535
	Ugashik	99.2	80,729	98.9	62,925	92.1	210,430	0.0	0	90.7	155,238	0.0	0	0.0	0	92.5	509,322
	Total	100.0	81,377	100.0	63,641	100.0	228,480	100.0	4,173	100.0	171,099	100.0	2,087	0.0	0	100.0	550,857
Total	Kvichak	1.3	17,344	1.3	6,527	9.1	165,233	0.0	0	4.7	39,424	1.9	141	7.0	903	5.1	229,572
	Naknek	0.3	3,538	1.4	6,922	0.6	10,774	0.0	0	0.9	7,229	0.1	8	3.7	481	0.6	28,952
	Egegik	2.7	35,146	3.7	18,727	13.2	239,738	100.0	11,162	15.6	129,723	85.9	6,219	64.7	8,387	10.0	449,102
	Ugashik	95.7	1,266,668	93.6	477,268	77.1	1,399,996	0.0	0	78.8	653,816	12.1	872	24.6	3,200	84.3	3,801,820
	Total	100.0	1,322,696	100.0	509,444	100.0	1,815,741	100.0	11,162	100.0	830,192	100.0	7,240	100.0	12,971	100.0	4,509,446

[a] Other includes ages-0.2, -0.3, -0.4, --3.2, and -2.4.

[b] Scale samples were collected on 23 and 26 June. Stock composition estimates calculated for these dates were applied to12 through 26 June catches.

[c] Scale samples were collected on 19 July. Stock composition estimates calculated for that date were applied to 19 July through 29 August catches.

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