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ABUNDANCE, AGE, SEX, AND SIZE STATISTICS FOR
PACIFIC SALMON IN BRISTOL BAY, 1993 - 1995



by

Jim Menard

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Alaska Department of Fish and Game
Division of Commercial Fisheries Management and Development
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ABSTRACT

Abundance, age, sex, and size data are summarized for 1993 - 1995 Bristol Bay commercial catches and spawning escapements of Pacific salmon *Oncorhynchus* as part of an ongoing project to collect baseline information. These data have been used to determine spawner-recruit relationships, establish spawning escapement goals, and forecast future run sizes. Age, sex, and size of sockeye salmon *O. nerka* were estimated with systematic stratified sampling programs. Using age and sex composition data combined with escapement information, sockeye salmon harvests were assigned to river of origin to estimate each river's run. Sampling efforts for other salmon species were limited. In the years 1993, 1994, and 1995 the total number of sockeye salmon commercially harvested in Bristol Bay were over 40, 35, and 44 million fish respectively. Total escapements of sockeye salmon in Bristol Bay for 1993, 1994, and 1995 were over 11, 15, and 16 million fish, respectively. Age-2.2 and age-2.3 sockeye salmon were the largest returning age group in each of the three years.

KEY WORDS: Bristol Bay, Pacific salmon, *Oncorhynchus*, catch, escapement, age composition, sex composition, size composition

INTRODUCTION

The Bristol Bay Management Area encompasses all waters east of a line from Cape Newenham to Cape Menshikof (Figure 1). Bristol Bay supports harvests of five species of Pacific salmon including the largest sockeye salmon *Oncorhynchus nerka* fishery in the world.

The area is divided into five fishing districts for the regulation of commercial salmon fisheries: Naknek-Kvichak, Egegik, Ugashik, Nushagak, and Togiak Districts (Figure 1). Naknek-Kvichak, Egegik, and Ugashik Districts are referred to as the Eastside fishery, and Nushagak and Togiak Districts are referred to as the Westside fishery. Rivers that produce major salmon runs include Kvichak, Naknek, Branch, Egegik, Ugashik, Wood, Igushik, Nushagak, and Togiak Rivers. Bristol Bay sockeye salmon are intercepted in the North Alaska Peninsula fishery (Geiger 1989, Swanton and Murphy 1992), and the South Alaska Peninsula June fishery (Gilbert 1924, Gilbert and Rich 1926, Eggers et al. 1988). At this time the magnitude of interceptions of Bristol Bay salmon in other fisheries are unknown.

The Alaska Department of Fish and Game (ADF&G) conducts a variety of programs that supply the information used to manage Bristol Bay salmon fisheries. These programs include (1) compiling catch statistics, (2) sampling catches for age, sex, and size, (3) counting major spawning escapements, (4) sampling escapements for age, sex, and size, and (5) estimating stock composition of eastside district catches based on scale pattern analyses. Data generated from these programs are used to manage fisheries in season, establish optimum escapement goals, and forecast future run sizes. This report summarizes 1993 - 1995 commercial catch, escapement, age, sex, and size data for Bristol Bay salmon. Such data for Bristol Bay salmon have been summarized annually since 1972 (McCurdy and Paulus 1972; Paulus and Nelson 1972a, 1972b; McCurdy and Schroeder 1972; Krasnowski and Randall 1975a, 1975b, 1976; Randall and Yuen 1978; Meacham and Randall 1979; Meacham and Nelson 1980; Yuen et al. 1981; Yuen and Nelson 1983, 1984a, 1984b, 1985, 1987; Yuen and Meacham 1983; Yuen et al. 1984; Yuen 1984; Yuen et al. 1986; Cross and Stratton 1988; Yuen and Bill 1989a, 1989b, 1990; Stratton 1990, 1991; Stratton and Cross 1990; Stratton and Crawford 1992, 1994).

METHODS

Catch Estimation

Commercial catches in numbers of salmon by Bristol Bay districts were taken from summaries of *fish tickets*, sales receipts, given to fishers by buyers at the time of delivery. The final catch numbers used for each of the three years encompassing this report were compiled by ADF&G, Division of Commercial Fisheries Management and Development and received from Computer Services approximately one year after the fishing season. The number of Bristol Bay sockeye salmon caught in the North Alaska Peninsula fishery is unknown. All sockeye caught during the South Alaska Peninsula fishery around Unimak and Shumagin Islands in June were assumed to be of Bristol Bay origin. A 1987 tagging study (Eggers et al.

s) indicated that sockeye stocks other than Bristol Bay composed a small percentage of the South Alaska Peninsula harvest.

Escapement Enumeration

Escapements of salmon in Bristol Bay in 1993 - 1995 were estimated with various methods by Division of Commercial Fisheries Management and Development (ADF&G 1994, 1995, 1996). Sockeye salmon escapement estimates were based on visual counts made from towers erected on the banks of Kvichak, Naknek, Egegik, Ugashik, Wood, Igushik, and Togiak Rivers. In addition, in 1994 and 1995 there was a counting tower project on the Kulukuk River operated by United States Fish and Wildlife Service (USF&WS). USF&WS also provided funds to extend Egegik River tower to count coho salmon escapement during 1994 and 1995. In 1995 the Nuyakuk River tower was reactivated by ADF&G. At all tower projects counts were made daily for 10 min every hour on both river banks. Counting began on one bank at the start of each hour, followed by counting on the opposite bank. Each 10-min count was expanded into an hourly estimate to calculate the total daily escapement. Escapements in Branch and Snake Rivers, as well as various rivers in Egegik, Ugashik, and Togiak Districts, were estimated from aerial surveys of major spawning grounds (Russell et al. 1994; Weiland et al. 1994; Brookover et al. 1996). Side-scanning sonar located in the lower Nushagak River near Portage Creek was used to estimate salmon escapements for the entire Nushagak River drainage (Miller et al. 1994; Miller 1995, 1996).

Age, Sex, and Size Estimation

Ages for all 1993 - 1995 Bristol Bay salmon runs were determined by examining scales (Mosher 1968), except ages of sockeye salmon spawning in Branch River were determined from otoliths (Bilton and Jenkinson 1968). European notation (e.g., 2.2; Koo 1962) was used to record ages: numerals preceding the decimal refer to number of freshwater annuli, numerals following the decimal refer to number of marine annuli. Total age from time of egg deposition or brood year is the sum of these numbers plus one.

Scales were collected from the left side of the fish approximately two rows above the lateral line in the area crossed by a diagonal from the posterior insertion of the dorsal fin to the anterior insertion of the anal fin (INPFC 1963). Scales were mounted on gum cards and impressions made on cellulose acetate cards with a heated hydraulic press (Clutter and Whitesel 1956). Salmon were measured to the nearest millimeter from the middle of the eye to the fork of the tail. Weights were taken to the nearest 0.1 kg. Sex was determined from external characteristics.

Catch sampling was stratified spatially by district; escapement sampling was stratified by major drainage. The number of time strata sampled differed among fisheries and rivers. District catches of sockeye salmon were usually sampled each fishing period during the emergency order period for 1993 - 1995, except when fishing periods were greater than 24 h. When this occurred, each district catch was generally sampled every

72 h. For dates not sampled, the age composition of sockeye salmon harvested was assumed to be the same as that estimated for the most recent catch date. Chinook and chum salmon catches were sampled less frequently than sockeye salmon. Coho salmon catches were not sampled.

Sample size goals for sockeye and chinook salmon catches were set at 600 fish per species per stratum. Chum salmon catch sample goals were set at 400 individuals per stratum. These goals were originally selected to ensure that a sufficient sample would be collected, such that with repeated sampling, each major age group in each stratum would be estimated within 5% of its true value 90% of the time, based on the normal approximation of a binomial proportion (Goodman 1965; Cochran 1977). However, Thompson's (1987) work on the "worst-case" parameter value for the multinomial distribution suggested that our sample size would result in simultaneously estimating the true percentage of each age within 5% of its true value 95% of the time.

Sample size goals for sockeye salmon escapements were set at 200 fish per day, which in practice, was only reached during the peak of the run. Daily age composition estimates were compared, and samples from successive dates were combined into the same time stratum if significant ($\alpha = 0.05$) differences were not found.

Estimation of Sockeye Salmon Catch Composition

Sockeye salmon harvested in Egegik and Ugashik Districts were assumed to be destined for Egegik and Ugashik Rivers, respectively. Similarly, sockeye salmon caught in Togiak River Section of Togiak District were assumed to be destined for Togiak River. Sockeye salmon harvested in other sections of Togiak District were assumed to be returning to systems not monitored for escapement or age composition and were not assigned to Togiak River. In 1994 the United States Fish and Wildlife Service initiated a counting tower project on the Kulukuk River and ADF&G started taking scale samples from the Kulukuk Section catch. However, the data have not been included in the Bristol Bay run table. All sockeye salmon caught in set gillnets fished from Igushik Beach were included in total run estimates for Igushik River and all sockeye salmon caught in set gillnets fished from Snake River Beach were assigned to Snake River. Sockeye salmon harvested in Naknek-Kvichak District were assumed to be returning to Kvichak, Branch, and Naknek Rivers. Sockeye harvested in Nushagak District were assumed to be returning to Wood, Igushik and Nushagak Rivers. Sockeye salmon caught in Naknek-Kvichak and Nushagak Districts were assigned to a natal river under the assumption that age and sex proportion within the catch was the same as within the combined escapement:

$$\hat{C}_{ijk} = \hat{C}_{jk} \frac{\hat{E}_{ijk}}{\sum_{i=1}^n \hat{E}_{ijk}} \quad 1$$

\hat{C}_{ijk} = estimated catch of sockeye salmon from river i age j and sex k

\hat{C}_{jk} = estimated district catch sockeye salmon age j and sex k , and

\hat{E}_{ijk} = estimated escapement to river i of sockeye salmon age j and sex k , and

n = number of rivers contributing to the mixed stock catch.

This has been referred to as the standard method (STD).

Recently, run-size estimates for individual Eastside Bristol Bay river systems, Kvichak, Naknek, Egegik, and Ugashik Rivers, have been estimated using scale pattern analyses (SPA; Miller 1995a, 1995b) and have differed from estimates based on STD.

RESULTS

1993

Bristol Bay Sockeye Run

In 1993 the total number of sockeye salmon commercially harvested in Bristol Bay was 40,462,124 fish, of which 40,397,990 were assigned to river of origin (Table 1). The age, sex and size composition for over 99% of the Bristol Bay catch and escapement were estimated. The 1993 total Bristol Bay sockeye run was comprised primarily of age-2.2 (33.3%) and age-2.3 (33.0%) fish (Table 2). The mean length of all sockeye salmon returning to Bristol Bay in 1993 was 545 mm and the mean weight was 2.6 kg. The results from each district are discussed below and the brood year tables are presented in Appendices A.1 - A.9. The brood year tables summarize the total sockeye salmon return from escapement by brood year for nine Bristol Bay river systems. These return-per-spawner data are extremely important in the forecast of Bristol Bay sockeye salmon runs.

Naknek-Kvichak District Sockeye Run. The inshore run of sockeye salmon to Naknek-Kvichak District, which included catch and escapements estimated to Kvichak, Branch, and Naknek Rivers, was 14,816,675 (Table 1). Age-2.2 sockeye salmon were the predominant (32.4%) age group; ages 2.3 (26.0%), 1.3 (22.0%), and 1.2 (17.3%) followed in abundance. Nine other age groups composed the remaining 2.3% of the run.

An estimated 9,312,689 Kvichak River sockeye salmon returned to Bristol Bay: 5,287,523 were caught and 4,025,166 escaped to spawn (Table 1). Age-2.2 sockeye salmon accounted for 43.6% of the run, or 4,062,969 fish.

Of the 816,736 Branch River sockeye salmon that returned to Bristol Bay, 468,761 were harvested and 347,975 escaped to spawn (Table 1). Sockeye salmon returning to Branch River were primarily age 1.2 (40.7%), 2.2 (31.7%), and 1.3 (17.3%).

The estimated total inshore run to Naknek River was 4,687,250 sockeye salmon, of which 3,151,592 were harvested and 1,535,658 escaped the fishery (Table 1). The total inshore run to Naknek River was comprised mostly (66.1%) of age-2.3 sockeye salmon.

The Naknek-Kvichak commercial catch of 8,907,876 sockeye salmon was composed of 31.1% age-2.3, 30.3% age-2.2, 21.6% age-1.3, and 15.8% age-1.2 fish (Table 3). Mean length of sockeye salmon harvested was 550 mm and mean weight was 2.7 kg.

The 4,025,166 sockeye salmon escaping into the Kvichak River were primarily (44.1%; 1,776,665) age-2.2 fish (Table 4). Mean length of sockeye salmon in the escapement was 541 mm.

An estimated 1,535,658 sockeye salmon entered the Naknek River of which 867,410 (56.5%) were age 2.3 fish (Table 5). Overall, the proportion of age-3 sockeye salmon accounted for 76.7% of the escapement in Naknek River. Sockeye salmon escaping into Naknek River were on average 555 mm long.

Egegik District Sockeye Run. Inshore catch and escapement of Egegik River sockeye salmon totaled 23,117,858 (Table 1). Age-2.3 sockeye salmon composed most (46.7%) of the run, followed closely by 44.3% age-2.2, 5.3% age-1.3, and 2.1% age-1.2 fish. The commercial fishery harvested a record 21,600,858 sockeye salmon which were predominantly age 2.3 (46.5%) and age 2.2 (44.6%). Mean length in the catch was 552 mm and mean weight was 2.7 kg (Table 6).

An estimated 1,516,980 sockeye salmon escaped into the Egegik River. The escapement was comprised mostly of age-2.3 (49.6%) and age-2.2 (40.8%). Mean length of sockeye salmon in the escapement was 548 mm (Table 7).

Ugashik District Sockeye Run. An estimated 5,590,354 Ugashik River sockeye salmon returned to Bristol Bay: 74.7% were caught and 25.3% escaped to spawn (Table 1). Most sockeye salmon returning to Ugashik River were age 2.3 (39.7%), age 2.2 (35.5%), age 1.3 (11.8%), and age 1.2 (11.7%). The commercial fishery harvested 4,176,900 sockeye salmon; their mean length was 551 mm, and mean weight was 2.8 kg (Table 8). Mean length of the 1,389,354 sockeye salmon escaping into Ugashik River was 553 mm (Table 9). The proportion of age-2 sockeye salmon in the escapement increased while the proportion of age-3 decreased through time (NSC; Table 9).

Nushagak District Sockeye Run. The inshore run of sockeye salmon to Nushagak District, which included catch and escapements to the Wood, Igushik, Snake, and Nushagak Rivers, was estimated at 7,533,346 (Table 1). While age-1.3 (49.6%), and age-1.2 (36.5%) sockeye salmon composed most of the sampled run, age-0.3 composed 8.9%.

Of the estimated 3,725,173 inshore run of sockeye salmon bound for Wood River, 2,549,047 were caught and 1,176,126 escaped to spawn (Table 1). Age-1.2 sockeye salmon composed 57.9% of the Wood River inshore run and age-1.3 fish composed 36.6%.

An estimated 1,580,076 Igushik River sockeye salmon returned to Bristol Bay: 1,174,512 were harvested and 405,564 escaped into the river (Table 1). The 1993 Igushik River sockeye salmon inshore run was 63.9% age 1.3.

Of the estimated 2,228,083 sockeye salmon that returned to Bristol Bay, bound for Nushagak River, 1,512,984 were caught and 715,099 escaped (Table 1). Sockeye salmon returning to Nushagak River were mostly ages 1.3 (61.2%) and 0.3 (20.9%).

The 4,927,735 Nushagak District catch, excluding Igushik Beach setnets, was composed of 47.7% age-1.3, 37.5% age-1.2, and 9.7% age-0.3 sockeye salmon. Mean length of sockeye salmon in the Nushagak District catch, excluding Igushik setnets, was 539 mm and mean weight was 2.7 kg (Table 10). Igushik Beach setnets caught 308,822 sockeye salmon (Table 11): 64.5% were age 1.3 and 24.3% were age 1.2. Mean length of sockeye salmon in the Igushik Beach setnet catch was 556 mm and mean weight was 2.9 kg.

The 1,176,126 sockeye salmon escaping into Wood River were primarily (57.1%) age-1.2 fish (Table 12). Mean length of the sockeye salmon escapement was 518 mm.

An estimated 405,564 sockeye salmon entered the Igushik River of which 269,908 (66.6%) were age-1.3 fish (Table 13). Sockeye salmon escaping into the Igushik River were on average 551 mm long.

Age-1.3 (64.0%) and age-0.3 (15.2%) sockeye salmon accounted for most of the escapement into the Nushagak River (Table 14). Mean length of the sockeye salmon escapement was 563 mm.

Togiak District Sockeye Run. An estimated 664,409 Togiak River sockeye salmon returned to Bristol Bay: 71.6% were caught and 28.4% escaped into the river (Table 1). Of the 475,799 sockeye salmon harvested from Togiak River Section, most (55.1%) were age 1.3 (Table 15). Mean length in Togiak River Section catch was 562 mm; mean weight was 3.3 kg. Escapement into Togiak Lake was estimated to be 172,680 sockeye salmon (Table 16), and an additional 15,930 were counted, in the mainstem and tributaries, below the counting towers. Most sockeye salmon in the escapement were age 1.3 (65.2%). Mean length of sockeye salmon in the escapement was 564 mm.

Bristol Bay Chinook Run

In 1993 the total number of chinook salmon commercially harvested in Bristol Bay was 85,857 fish. Most (73,827) were caught in the Westside (Nushagak and Togiak Districts) fishery. The age and size composition for Nushagak District and Togiak River Section catches, 85.1% of the Bristol Bay catch, and escapement to the Nushagak River were estimated.

Nushagak District Chinook Run. An estimated 62,976 chinook salmon were caught in Nushagak District with age 1.3 (35.1%), age 1.4 (32.6%), and age 1.2 (31.5%) being harvested in nearly equal proportions (NSC; Table 17). Mean length of the chinook salmon in the catch was 720 mm; mean weight was 6.5 kg. An estimated 97,812 chinook salmon passed the Nushagak River sonar site (Table 18). The escapement was composed of 44.9% age-1.4, 35.8% age-1.3 and 17.3% age-1.2 fish. Mean length of chinook salmon in the escapement was 776 mm.

Togiak District Chinook Run. Of the 10,851 chinook salmon caught in Togiak District, most (10,054) were harvested in Togiak River Section (Table 19). Age-1.4 (38.4%), age-1.3 (34.8%), and age-1.2 (23.7%) chinook salmon dominated the Togiak River Section catch. Mean length of chinook salmon in the catch was 718 mm; mean weight was 7.1 kg.

Bristol Bay Chum Run

In 1993 the total number of chum salmon commercially harvested in Bristol Bay was 838,382 fish. Most (650,668) were caught in the Westside fishery. The age, sex, and size composition for Nushagak District and Togiak River Section catches, 75.9% of the Bristol Bay catch, and escapement to the Nushagak River were estimated.

Nushagak District Chum Run. An estimated 505,799 chum salmon were caught in Nushagak District. Age-0.4 (53.4%) and age-0.3 (42.8%) chum salmon dominated the catch (Table 20). Mean length of the chum salmon in the catch was 559 mm; mean weight was 2.8 kg. An estimated 217,230 chum salmon passed the Nushagak River sonar site (Table 21). The escapement was composed of 64.3% age-0.4, 31.2% age-0.3, and 4.5% age-0.5 fish. Mean length of chum salmon in the escapement was 577 mm.

Togiak District Chum Run. Of the 144,869 chum salmon caught in Togiak District, most (130,679) were harvested in Togiak River Section (Table 22). Age-0.4 (67.6%), age-0.3 (27.5%), and age-0.5 (4.8%) chum salmon composed the Togiak River Section catch. Mean length of chum salmon commercially harvested was 563 mm; mean weight was 3.0 kg.

Bristol Bay Coho Run

In 1993 the total number of coho salmon commercially harvested in Bristol Bay was 72,729 fish. Most (41,603) were caught in Egegik District. No coho salmon catches were sampled.

Nushagak District Coho Run. An estimated 14,345 coho salmon were harvested in Nushagak District. An estimated 42,742 coho salmon passed the Nushagak River sonar site (Table 23). The escapement was composed of 97.8% age-2.1 and 2.2% age-3.1 fish. Mean length of coho salmon in the escapement was 549 mm.

1994

Bristol Bay Sockeye Run

In 1994 the total number of sockeye salmon commercially harvested in Bristol Bay was 35,224,050 fish of which 35,125,526 were assigned to river of origin (Table 24). The age, sex, and size composition for over 99% of the Bristol Bay catch and escapement were estimated. The 1994 total Bristol Bay sockeye run was comprised primarily of age-2.2 (56.1%) fish (Table 25). The mean length of all sockeye salmon returning to Bristol Bay in 1994 was 522 mm and the mean weight was 2.3 kg. The results from each district are discussed below.

Naknek-Kvichak District Sockeye Run. The inshore run of sockeye salmon to Naknek-Kvichak District, which included catch and escapements estimated to Kvichak, Branch, and Naknek Rivers, was 25,899,103 (Table 24). Age-2.2 sockeye salmon were the predominant (76.5%) age group; ages 1.3 (10.0%), 1.2 (8.3%), and 2.3 (4.3%) followed in abundance.

An estimated 22,231,453 Kvichak River sockeye salmon returned to Bristol Bay: 13,893,613 were caught and 8,337,840 escaped to spawn (Table 24). Age-2.2 sockeye salmon accounted for 83.3% of the inshore run, or 18,507,920.

Of the 634,296 Branch River sockeye salmon that returned to Bristol Bay, 391,701 were harvested and 242,595 escaped to spawn (Table 24). Sockeye salmon returning to Branch River were primarily age 1.2 (40.3%), 2.2 (27.7%), and 1.3 (25.4%).

The estimated total inshore run to Naknek River was 3,033,354 sockeye salmon, of which 2,042,544 were harvested and 990,810 escaped the fishery (Table 24). Age-2.2 (37.4%) and age-1.3 (28.7%) sockeye salmon comprised most of the run.

The Naknek-Kvichak commercial catch of 16,327,858 sockeye salmon was composed of 75.2% age-2.2, 13.4% age-1.3, 6.1% age-1.2, and 4.9% age-2.3 fish (Table 26). The remaining 0.4% of the catch was composed of eight other age groups. Mean length of sockeye salmon harvested was 522 mm and mean weight was 2.3 kg.

The 8,337,840 sockeye salmon escaping into the Kvichak River were primarily (84.4%; 7,037,285) age-2.2 fish (Table 27). Mean length of sockeye salmon in the Kvichak River escapement was 502 mm.

Sockeye salmon escaping (990,810) to Naknek River were mostly age 2.2 (43.7%), age 1.2 (21.5%), and age 2.3 (14.8%). Mean length of sockeye salmon escapement into Naknek River was 486 mm (Table 28).

Egegik District Sockeye Run. Inshore catch and escapement of Egegik River sockeye salmon totaled 12,648,190 (Table 24). Age-2.2 (47.1%) sockeye salmon composed most of the run, followed by 43.1% age 2.3, 3.4% age 1.3, and 3.1% age 1.2. Nine minor age groups composed 3.3% of the total run. The commercial fishery harvested 10,750,213 sockeye salmon. Mean length of sockeye salmon in the catch was 541 mm and mean weight was 2.4 kg (Table 29). The mean length of the 1,897,932 sockeye salmon escaping into Egegik River was 505 mm (Table 30).

Ugashik District Sockeye Run. An estimated 5,447,865 Ugashik River sockeye salmon returned to Bristol Bay: 79.9% were caught and 20.1% escaped to spawn (Table 24). Most sockeye salmon returning to Ugashik River were age 2.2 (44.7%), age 2.3 (39.9%), age 1.3 (6.7%), and age 1.2 (6.2%); eight minor age groups composed the remaining 2.5% of the run. The commercial fishery harvested 4,352,797 sockeye salmon; their mean length was 548 mm, and mean weight was 2.6 kg (Table 31). Mean length of sockeye salmon in the escapement was 503 mm (Table 32). The proportion of age-2 sockeye salmon in the escapement increased while the proportion of age-3 decreased through time (NSC; Table 32).

Nushagak District Sockeye Run. The inshore run of sockeye salmon to Nushagak District, which included catch and escapements to the Wood, Igushik, Snake, and Nushagak Rivers, was estimated at 5,842,759 (Table 24). Age-1.3 (60.3%), and -1.2 (21.8%) and age-0.3 (12.9%) sockeye salmon composed most of the sampled run.

Of the estimated 2,956,862 inshore run of sockeye salmon bound for Wood River, 1,484,972 were caught and 1,471,890 escaped to spawn (Table 24). Age-1.3 sockeye salmon composed 60.8% of the inshore run and age-1.2 fish composed 36.4%.

An estimated 1,300,346 Igushik River sockeye salmon returned to Bristol Bay: 854,426 were harvested and 445,920 escaped into the river (Table 1). The 1994 Igushik River sockeye salmon inshore run was 80.4% age 1.3.

Of the estimated 1,543,465 Nushagak River sockeye salmon that returned to Bristol Bay, 1,034,139 were caught and 509,326 escaped (Table 24). Sockeye salmon returning to Nushagak River were mostly ages 0.3 (47.8%) and 1.3 (42.5%).

Most of the 3,150,870 Nushagak District catch, excluding Igushik Beach setnets, was composed of 66.1% age-1.3, 17.6% age-0.3, and 11.8% age-1.2 sockeye salmon. Mean length of sockeye salmon in the Nushagak District catch, excluding Igushik setnets, was 543 mm and mean weight was 2.7 kg (Table 33). Igushik Beach setnets caught 242,273 sockeye salmon (Table 34): 79.5% were age 1.3 and 9.7% were age 1.2. Mean length of sockeye salmon in the Igushik Beach setnet catch was 555 mm and mean weight was 2.9 kg.

The 1,471,890 sockeye salmon escaping into Wood River were primarily (51.5%) age-1.2 fish (Table 35). Mean length of the sockeye salmon escapement was 508 mm.

An estimated 445,920 sockeye salmon entered the Igushik River of which 317,266 (71.2%) were age-1.3 fish (Table 36). Sockeye salmon escaping into the Igushik River were on average 539 mm long.

Age-1.3 (47.8%) and age-0.3 (38.1%) sockeye salmon accounted for most of the escapement into the Nushagak River (Table 37). Mean length of the sockeye salmon escapement was 546 mm.

Togiak District Sockeye Run. An estimated 495,293 Togiak River sockeye salmon returned to Bristol Bay: 64.8% were caught and 35.2% escaped into the river (Table 24). The run was dominated by age-1.3 (62.0%) fish. Of the 321,121 harvested from Togiak River Section, most (72.3%) were age 1.3 (Table 38). Mean length of sockeye salmon in Togiak River Section catch was 564 mm; mean weight was 3.2 kg. Kulukuk Section fishers caught 76,781 sockeye salmon; age-1.3 fish comprised 73.0% of the harvest (Table 39). Mean length of sockeye salmon in the Kulukuk Section catch was 563 mm and mean weight was 3.1 kg. Escapement into Togiak Lake was estimated to be 154,752 sockeye salmon (Table 40), and an additional 19,420 were counted, in the mainstem and tributaries, below the counting towers. Most sockeye salmon in the escapement were age 1.3 (44.9%) and age 1.2 (41.4%). Mean length of sockeye salmon in the Togiak River escapement was 531 mm. Escapement into Kulukuk River was estimated by aerial survey to be 20,540 sockeye salmon. Most (68.3%) sockeye salmon in the escapement were age 1.3 (Table 41). Mean length of escaping sockeye salmon in Kulukuk River was 541 mm.

Bristol Bay Chinook Run

In 1994 the total number of chinook salmon commercially harvested in Bristol Bay was 140,910 fish. Most (129,966) were caught in the Westside fishery. The age and size composition for Nushagak District and Togiak River Section catches, 91.4% of the Bristol Bay chinook catch, and escapement to the Nushagak River were estimated.

Nushagak District Chinook Run. An estimated 119,480 chinook salmon were caught in Nushagak District. The catch was composed of age-1.4 (49.1%), age-1.3 (38.4%), and age-1.2 (10.8%) chinook salmon (Table 42). Mean length of chinook salmon in the catch was 790 mm; mean weight was 9.9 kg. An estimated 95,954 chinook salmon passed the Nushagak River sonar site (Table 43). The escapement was composed of 41.5% age-1.4, 35.4% age-1.3, and 18.8% age-1.2 fish. Mean length of chinook salmon in the escapement was 766 mm.

Togiak District Chinook Run. Of the 10,486 chinook salmon caught in Togiak District, most (9,352) were harvested in Togiak River Section (Table 44). Age-1.3 (43.6%), age-1.4 (33.5%), and age-1.2 (15.9%) chinook salmon dominated the Togiak River Section catch. Mean length of chinook salmon in the catch was 765 mm; mean weight was 9.0 kg.

Bristol Bay Chum Run

In 1994 the total number of chum salmon commercially harvested in Bristol Bay was 895,032 fish. Most (560,826) chum salmon were caught in the Westside fishery. The age, sex, and size composition for Nushagak District and Togiak River Sections, 60.5% of the Bristol Bay catch, and escapement to the Nushagak and Kulukuk Rivers were estimated.

Nushagak District Chum Run. An estimated 328,267 chum salmon were caught in Nushagak District. Age-0.4 (58.7%) and age-0.3 (38.1%) chum salmon dominated the catch (Table 45). Mean length of chum salmon catch was 580 mm; mean weight was 3.3 kg. An estimated 378,928 chum salmon passed the Nushagak River sonar site (Table 46). The escapement was composed predominantly of age-0.4 (62.0%) and age-0.3 (35.3%) fish. Mean length of chum salmon in the escapement was 568 mm.

Togiak District Chum Run. Of the 232,559 chum salmon caught in Togiak District, most (213,284) were harvested in Togiak River Section (Table 47). Age-0.3 chum salmon accounted for 51.5% and age-0.4 43.4% of the Togiak River Section harvest. Mean length of chum salmon in the catch was 563 mm; mean weight was 3.1 kg. Based on aerial surveys an estimated 32,100 chum salmon escaped into the Kulukuk River. Escapement to the Kulukuk River was composed of age-0.4 (50.6%), age-0.3 (39.5%), and age-0.5 (9.9%) chum salmon (Table 48). Mean length of chum salmon in the Kulukuk River escapement was 573 mm.

Bristol Bay Coho Run

In 1994 the total number of coho salmon commercially harvested in Bristol Bay was 175,240 fish. Most (96,062) were caught in Togiak District. No coho salmon catches were sampled.

Nushagak District Coho Run. An estimated 5,615 coho salmon were harvested in Nushagak District. An estimated 82,019 coho salmon passed the Nushagak River sonar site (Table 49). The escapement was composed mostly of age-2.1 (86.1%) and age-3.1 (9.8%) fish. Mean length of coho salmon in the escapement was 563 mm.

1995

Bristol Bay Sockeye Run

In 1995 the total number of sockeye salmon commercially harvested in Bristol Bay was 44,266,217 fish of which 44,185,372 were assigned to river of origin (Table 50). The age, sex, and size composition for over 99% of the Bristol Bay catch and escapement were estimated. The 1995 total Bristol Bay sockeye run was comprised primarily of age-2.2 (56.3%) fish. The mean length of all sockeye salmon returning to Bristol Bay in 1995 was 526 mm and the mean weight was 2.4 kg (Table 51). The results from each district are discussed below.

Naknek-Kvichak District Sockeye Run. The inshore run of sockeye salmon to Naknek-Kvichak District, which included catch and escapements estimated to Kvichak, Branch, and Naknek Rivers, was 31,645,154 (Table 50). Age-2.2 sockeye salmon were the predominant (69.8%) age group; ages 2.3 (12.0%), 1.2 (10.4%), and 1.3 (7.7%) followed in abundance. Nine other age groups composed the remaining 0.1% of the run.

An estimated 27,430,626 Kvichak River sockeye salmon returned to Bristol Bay: 17,391,906 were caught and 10,038,720 escaped to spawn (Table 50). Age-2.2 sockeye salmon accounted for 74.6% of the inshore run, or 20,455,349.

Of the 650,954 Branch River sockeye salmon that returned to Bristol Bay, 435,241 were harvested and 215,713 escaped to spawn (Table 50). Sockeye salmon returning to Branch River were primarily age 2.2 (49.2%), 1.2 (29.5%), and 1.3 (18.1%).

The estimated total inshore run to Naknek River was 3,563,574 sockeye salmon, of which 2,452,434 were harvested and 1,111,140 escaped the fishery (Table 50). Age-2.2 (36.6%) and age-1.3 (33.0%) sockeye salmon comprised most of the inshore run.

The Naknek-Kvichak commercial catch of 20,279,581 sockeye salmon was composed of 66.6% age-2.2, 12.9% age-2.3, 11.3% age-1.2, and 9.2% age-1.3 fish (Table 52). The remainder of the catch was less than 0.1% and was composed of four other age groups. Mean length of sockeye salmon harvested was 526 mm and mean weight was 2.4 kg.

The 10,038,720 sockeye salmon escaping into the Kvichak River were primarily (79.3%; 7,956,929) age-2.2 fish (Table 53). Mean length of sockeye salmon in the Kvichak River escapement was 517 mm.

Sockeye salmon escaping to Naknek River were mostly (45.1%) age-2.2 fish (Table 54). Overall, the proportion of age-2 sockeye salmon accounted for 59.4% of the escapement in Naknek River. Mean length of sockeye salmon escaping to Naknek River was 520 mm.

Egegik District Sockeye Run. Inshore catch and escapement of Egegik River sockeye salmon totaled 15,692,671 (Table 50). Age-2.2 (59.3%) sockeye salmon composed most of the run, followed by 24.7% age 2.3, 8.6% age 1.2, and 5.3% age 1.3. Six other age groups composed 2.1% of the total run. The commercial fishery harvested 14,425,979 sockeye salmon with the majority (58.8%) being age-2.2 fish (Table 55). Mean length of sockeye salmon in the catch was 538 mm and mean weight was 2.4 kg. The mean length of the 1,265,862 sockeye salmon in the escapement was 523 mm (Table 56) and the predominant (65.3%) age was 2.2.

Ugashik District Sockeye Run. An estimated 5,830,554 Ugashik River sockeye salmon returned to Bristol Bay: 77.3% were caught and 22.7% escaped to spawn (Table 50). Most sockeye salmon returning to Ugashik River were age 2.2 (38.3%), age 1.2 (33.5%), age 2.3 (15.9%), and age 1.3 (11.6%); nine minor age

groups composed the remaining 0.7% of the run. The commercial fishery harvested 4,509,446 sockeye salmon; their mean length was 539 mm, and mean weight was 2.4 kg (Table 57). Sockeye salmon harvested in Ugashik District were mostly (40.3%) age-2.2 fish; while those in the escapement were predominantly (47.9%) age-1.2 fish (Table 58). The mean length of the 1,304,058 sockeye salmon escaping into Ugashik River was 522 mm.

Nushagak District Sockeye Run. The inshore run of sockeye salmon to Nushagak District, which includes catch and escapements to Wood, Igushik, Snake, and Nushagak Rivers, was estimated at 6,700,131 (Table 50). Age-1.2 (45.0) and -1.3 (41.2%) sockeye salmon composed most of the sampled run. Age-0. sockeye salmon composed only 5.0% of the sampled run.

Of the estimated 4,021,812 sockeye salmon that returned to Bristol Bay, bound for Wood River, 2,539,650 were caught and 1,482,162 escaped to spawn (Table 50). Age-1.2 sockeye salmon composed 63.0% of the inshore run to Wood River.

An estimated 1,901,963 Igushik River sockeye salmon returned to Bristol Bay: 1,428,581 were harvested and 473,382 escaped into the river (Table 50). The 1995 Igushik River sockeye salmon inshore run was 71.5% age 1.3.

Of the estimated 756,300 sockeye salmon that returned to Bristol Bay, bound for Nushagak River, 474,993 were caught and 281,307 escaped (Table 50). Sockeye salmon returning to Nushagak River were age 1.3 (31.9%), age 1.2 (21.9%), age 0.3 (16.6%), age 0.4 (13.7%), and age 0.2 (10.8%); four age groups composed the remaining 5.1% of the run.

The 3,952,963 Nushagak District catch, excluding Igushik Beach setnets, was mostly composed of 46.0% age-1.2, 39.3% age-1.3, and 8.0% age-2.2 sockeye salmon. Mean length of the Nushagak District catch, excluding Igushik setnets, was 519 mm and mean weight was 2.4 kg (Table 59). Igushik Beach setnets caught 492,937 sockeye salmon (Table 60), and age 1.3 (82.0%), age 1.2 (8.1%), and age 2.2 (6.6%) composed most of the run. Mean length of sockeye salmon in the Igushik Beach setnet catch was 553 mm and mean weight was 2.8 kg.

The 1,482,162 sockeye salmon escaping into Wood River were primarily (67.0%) age-1.2 fish (Table 61). Mean length of sockeye salmon in the escapement was 507 mm.

An estimated 473,382 sockeye salmon entered the Igushik River of which 324,166 (68.5%) were age-1.3 fish (Table 62). Sockeye salmon escaping into the Igushik River were on average 544 mm long.

The 281,307 sockeye salmon escaping into the Nushagak River were composed mainly of five ages; age-1.3 (29.1%), age-1.2 (19.2%), age-0.2 (18.7%), age-0.3 (17.2), and age-0.4 (11.3%) sockeye salmon. Mean length of sockeye salmon in the escapement was 514 mm (Table 63).

Concerns about escapement to the Nushagak River drainage in the 1990s resulted in initiating, after a six-month suspension, the Nuyakuk River counting tower project. Sampling was done by Fisheries Research Institute personnel from University of Washington, and age composition of the 69,702 escaping sockeye salmon was predominantly age-1.3 (46.1%) and age-1.2 (40.6%) fish (Table 64).

Togiak District Sockeye Run. An estimated 738,368 Togiak River sockeye salmon returned to Bristol Bay: 71.4% were caught and 28.6% escaped into the river (Table 50). Of the 527,142 sockeye salmon harvested from Togiak River Section, most (59.2%) were age 1.3 (Table 65). Mean length of sockeye salmon in Togiak River Section catch was 553 mm; mean weight was 3.0 kg. Kulukuk Section fishers caught 76,056 sockeye salmon; age-1.3 fish composed 61.6% of the harvest (Table 66). Mean length of sockeye salmon in the Kulukuk Section catch was 554 mm and mean weight was 2.9 kg. Escapement into Togiak Lake was estimated to be 185,718 sockeye salmon (Table 67), and an additional 25,508 were counted, in the mainstem and tributaries, below the counting towers. Most sockeye salmon in the escapement were age 1.3 (59.8%) and age 1.2 (31.1%). Mean length of sockeye salmon in the Togiak River escapement was 550 mm. Escapement into Kulukuk River was estimated by aerial survey to be 6,000 sockeye salmon. Most (61.3%) sockeye salmon in the escapement were age 1.3 (Table 68). Mean length of escaping Kulukuk River sockeye salmon was 539 mm.

Bristol Bay Chinook Run

In 1995, a total of 99,318 chinook salmon harvested commercially in Bristol Bay. Most (91,923) were caught in the Westside fishery. The age and size composition for Nushagak District and Togiak River Section catches, 91.3% of the Bristol Bay catch, and escapement to the Nushagak River were estimated.

Nushagak District Chinook Run. An estimated 79,942 chinook salmon were caught in Nushagak District. The catch was composed of age-1.4 (54.3%), age-1.3 (23.2%), and age-1.2 (21.0%) chinook salmon (Table 69). Mean length of the chinook salmon in the catch was 773 mm and mean weight was 7.7 kg. An estimated 85,622 chinook salmon passed the Nushagak River sonar site (Table 70). The escapement was composed of 42.0% age-1.4, 39.8% age-1.2 and 15.8% age-1.3 fish. Mean length of chinook salmon in the escapement was 718 mm.

Togiak District Chinook Run. Of the 11,981 chinook salmon caught in Togiak District, most (10,768) were harvested in Togiak River Section (Table 71). Age-1.4 (45.0%), age-1.2 (34.3%), and age-1.3 (18.7%) chinook salmon dominated the Togiak River Section catch. Mean length of chinook salmon in the catch was 735 mm; mean weight was 8.2 kg.

Bristol Bay Chum Run

In 1995 the total number of chum salmon commercially harvested in Bristol Bay was 978,882 fish. Most (611,284) were caught in the Westside fishery. The age, sex, and size composition for Nushagak District

and Togiak River Section catches, 60.1% of the Bristol Bay catch, and escapement to the Nushagak and Kulukuk Rivers were estimated.

Nushagak District Chum Run. An estimated 390,158 chum salmon were caught in Nushagak District. Age-0.3 (51.8%) and age-0.4 (37.4%) chum salmon dominated the catch (Table 72). Mean length of the chum salmon catch was 560 mm; mean weight was 2.9 kg. An estimated 212,612 chum salmon passed the Nushagak River sonar site (Table 73). The escapement was composed predominantly of age-0.3 (44.3%) and age-0.4 (42.7%) fish. Mean length of chum salmon in the escapement was 577 mm.

Togiak District Chum Run. Of the 221,126 chum salmon caught in Togiak District, most (198,141) were harvested in Togiak River Section (Table 74). Age-0.4 chum salmon accounted for 45.9% and age-0.3 41.3% of the Togiak River Section harvest. Mean length of chum salmon in the catch was 571 mm; mean weight was 3.1 kg. Escapement to the Kulukuk River was composed of age-0.4 (57.4%), age-0.3 (30.7%), age-0.5 (9.2%), and age-0.2 (2.7%) chum salmon (Table 75). Mean length of chum salmon in the Kulukuk River escapement was 594 mm.

Bristol Bay Coho Run

In 1995 the total number of coho salmon commercially harvested in Bristol Bay was 49,444 fish. Most (36,392) were caught in the Eastside fishery. No coho salmon catches were sampled.

Egegik District Coho Run. An estimated 21,810 coho salmon were harvested in Egegik District. An estimated 7,470 coho salmon passed the Egegik River counting tower (Table 76). The escapement was composed of 65.4% age-2.1, and 29.5% age-1.1 fish. Mean length of coho salmon in the escapement was 544 mm.

Nushagak District Coho Run. An estimated 4,181 coho salmon were harvested in Nushagak District. An estimated 46,340 coho salmon passed the Nushagak River sonar site (Table 77). The escapement was composed of 90.5% age-2.1, 5.0% age-3.1, and 4.5% age-1.1 fish. Mean length of coho salmon in the escapement was 540 mm.

Togiak District Coho Run. An estimated 8,871 coho salmon were caught in Togiak District. The only coho salmon sampled for age composition were from Kulukuk River escapement (Table 78). An estimated 13,503 coho salmon passed the Kulukuk River counting tower. Age composition was composed of 77.6% age-2.1, 18.9% age-1.1, and 3.5% age-3.1 fish. Mean length of coho salmon in the Kulukuk River escapement was 569 mm.

LITERATURE CITED

- ADF&G (Alaska Department of Fish and Game). 1994. Bristol Bay Area annual management report, 1993. Alaska Department of Fish and Game, Division of Commercial Fisheries Management and Development, Regional Information Report 2A94-02, Anchorage.
- ADF&G. 1995. Bristol Bay Area annual management report, 1994. Alaska Department of Fish and Game, Division of Commercial Fisheries Management and Development, Regional Information Report 2A95-11, Anchorage.
- ADF&G. 1996. Bristol Bay Area annual management report, 1995. Alaska Department of Fish and Game, Division of Commercial Fisheries Management and Development, Regional Information Report 2A96-06, Anchorage.
- Bilton, H., and D. Jenkinson. 1968. Comparison of the otolith and scale methods for aging sockeye (*Oncorhynchus nerka*) and chum (*O. keta*) salmon. *Journal of the Fisheries Research Board of Canada* 25 (5).
- Brookover, T.E., J. Browning, J. Regnart, R. Russell, and K. Weiland. 1996. Salmon spawning ground surveys in the Bristol Bay area, 1995. Alaska Department of Fish and Game, Division of Commercial Fisheries Management and Development, Regional Information Report 2A96-31, Anchorage.
- Clutter, R., and L. Whitesel. 1956. Collection and interpretation of sockeye salmon scales. *International Pacific Salmon Fisheries Commission Bulletin* 9.
- Cochran, W. 1977. *Sampling techniques*, 3rd edition. John Wiley & Sons, Inc. New York.
- Cross, B., and B. Stratton. 1988. Abundance, age, sex, and size statistics for Pacific salmon in Bristol Bay, 1987. Alaska Department of Fish and Game, Division of Commercial Fisheries, Technical Fishery Report 88-18, Juneau.
- Eggers, D., K. Rowell, and B. Barrett. 1988. The stock composition of the catches of sockeye and chum in the 1987 South Peninsula June fishery based on tagging. Alaska Department of Fish and Game, Division of Commercial Fisheries, Regional Information Report 5J88-03, Juneau.
- Geiger, H. 1989. A stock identification study in the Northern Alaska Peninsula sockeye salmon fishery, from Harbor Point to Strogonof Point. Alaska Department of Fish and Game, Division of Commercial Fisheries, Regional Information Report 5J89-11, Juneau.

LITERATURE CITED (Continued)

- Gilbert, C. 1924. Experiment in tagging adult red salmon, Alaska Peninsula fisheries reservation, summer of 1922. Bulletin of the United States Bureau of Fisheries, Volume 39.
- Gilbert, C., and W. Rich. 1926. Second experiment in tagging adult red salmon in the Alaska Peninsula fisheries reservation, summer of 1923. Bulletin of the United States Bureau of Fisheries, Volume 42.
- Goodman, L. 1965. On simultaneous confidence intervals for multinomial populations. *Technometrics* 7:247-254.
- INPFC (International North Pacific Fisheries Commission). 1963. Annual Report 1961, Vancouver, British Columbia.
- Koo, T. S. Y. 1962. Age designation in salmon. Pages 37-48 in T. S. Y. Koo, editor. Studies of Alaska red salmon. University of Washington Publications in Fisheries, New Series, Volume I, Seattle.
- Krasnowski, P., and R. Randall. 1975a. Bristol Bay sockeye salmon (*Oncorhynchus nerka*) 1972 — a compilation of catch and escapement data. Alaska Department of Fish and Game, Division of Commercial Fisheries, Technical Data Report 19, Juneau.
- Krasnowski, P., and R. Randall. 1975b. Bristol Bay sockeye salmon (*Oncorhynchus nerka*) 1973 — a compilation of catch and escapement data. Alaska Department of Fish and Game, Division of Commercial Fisheries, Technical Data Report 22, Juneau.
- Krasnowski, P., and R. Randall. 1976. Bristol Bay sockeye salmon (*Oncorhynchus nerka*) 1974 — a compilation of catch and escapement data. Alaska Department of Fish and Game, Division of Commercial Fisheries, Technical Data Report 24, Juneau.
- McCurdy, M., and R. Paulus. 1972. Bristol Bay sockeye salmon (*Oncorhynchus nerka*) 1968 — a compilation of catch and escapement data. Alaska Department of Fish and Game, Division of Commercial Fisheries, Technical Data Report 1, Juneau.
- McCurdy, M., and T. Schroeder. 1972. Bristol Bay sockeye salmon (*Oncorhynchus nerka*) 1971 — a compilation of catch and escapement data. Alaska Department of Fish and Game, Division of Commercial Fisheries, Technical Data Report 7, Juneau.

LITERATURE CITED (Continued)

- Meacham, C., and M. Nelson. 1980. Bristol Bay sockeye salmon (*Oncorhynchus nerka*) 1977 — a compilation of catch and escapement data. Alaska Department of Fish and Game, Division of Commercial Fisheries, Technical Data Report 47, Juneau.
- Meacham, C., and R. Randall. 1979. Bristol Bay sockeye salmon (*Oncorhynchus nerka*) 1976 — a compilation of catch and escapement data. Alaska Department of Fish and Game, Division of Commercial Fisheries, Technical Data Report 43, Juneau.
- Miller, J. D. 1995a. Origins of sockeye salmon in 1993 eastside Bristol Bay fisheries based on linear discriminant function analysis of scale patterns. Alaska Department of Fish and Game, Division of Commercial Fisheries Management and Development, Regional Information Report 2A95-24, Anchorage.
- Miller, J. D. 1995b. Origins of sockeye salmon in 1994 eastside Bristol Bay fisheries based on linear discriminant function analysis of scale patterns. Alaska Department of Fish and Game, Division of Commercial Fisheries Management and Development, Regional Information Report 2A95-25, Anchorage.
- Miller, J. D. 1995. Sonar enumeration of Pacific salmon into Nushagak River, 1994. Alaska Department of Fish and Game, Division of Commercial Fisheries Management and Development, Regional Information Report 2A95-10, Anchorage.
- Miller, J. D. 1996. Sonar enumeration of Pacific salmon into Nushagak River, 1995. Alaska Department of Fish and Game, Division of Commercial Fisheries Management and Development, Regional Information Report 2A96-08, Anchorage.
- Miller, J. D., L. K. Brannian, and B. A. Cross. 1994. Sonar enumeration of Pacific salmon into Nushagak River, 1993. Alaska Department of Fish and Game, Division of Commercial Fisheries Management and Development, Regional Information Report 2A94-20, Anchorage.
- Mosher, K. 1968. Photographic atlas of sockeye salmon scales. Fishery Bulletin 67:243–280.
- Paulus, R., and M. Nelson. 1972a. Bristol Bay sockeye salmon (*Oncorhynchus nerka*) 1969 — a compilation of catch and escapement data. Alaska Department of Fish and Game, Division of Commercial Fisheries, Technical Data Report 5, Juneau.

LITERATURE CITED (Continued)

- Paulus, R., and M. Nelson. 1972b. Bristol Bay sockeye salmon (*Oncorhynchus nerka*) 1970 — a compilation of catch and escapement data. Alaska Department of Fish and Game, Division of Commercial Fisheries, Technical Data Report 6, Juneau.
- Randall, R., and H. Yuen. 1978. Bristol Bay sockeye salmon (*Oncorhynchus nerka*) 1975 — a compilation of catch and escapement data. Alaska Department of Fish and Game, Division of Commercial Fisheries, Technical Data Report 40, Juneau.
- Russell, R., J. Regnart, and T. Brookover. 1994. Salmon spawning ground surveys in the Bristol Bay area, 1993. Alaska Department of Fish and Game, Division of Commercial Fisheries, Regional Information Report 2A94-06, Anchorage.
- Stratton, B. 1990. Abundance, age, sex, and size statistics for Pacific salmon in Bristol Bay, 1989. Alaska Department of Fish and Game, Division of Commercial Fisheries, Technical Fishery Report 90-09, Juneau.
- Stratton, B. 1991. Abundance, age, sex, and size statistics for Pacific salmon in Bristol Bay, 1990. Alaska Department of Fish and Game, Division of Commercial Fisheries, Technical Fishery Report 91-15, Juneau.
- Stratton, B.L., and D. L. Crawford. 1992. Abundance, age, sex, and size statistics for Pacific salmon in Bristol Bay, 1991. Alaska Department of Fish and Game, Division of Commercial Fisheries, Technical Fishery Report 92-17, Juneau.
- Stratton, B.L., and D. L. Crawford. 1994. Abundance, age, sex, and size statistics for Pacific salmon in Bristol Bay, 1992. Alaska Department of Fish and Game, Division of Commercial Fisheries Management and Development, Technical Fishery Report 94-16, Juneau.
- Stratton, B., and B. Cross. 1990. Abundance, age, sex, and size statistics for Pacific salmon in Bristol Bay, 1988. Alaska Department of Fish and Game, Division of Commercial Fisheries, Technical Fishery Report 90-06, Juneau.
- Swanton, C. O., and R. L. Murphy. 1992. Origins of sockeye salmon caught within the Harbor Point to Strogonof Point reach of the Alaska Peninsula Management Area, 8 July through 21 July, 1990. Alaska Department of Fish and Game, Division of Commercial Fisheries, Technical Fishery Report 92-04, Juneau.

LITERATURE CITED (Continued)

- Thompson, S. 1987. Sample size for estimating multinomial proportions. *The American Statistician* 41:42–46.
- Weiland, K.A., R. Russell, J. Regnart, and T. Brookover. 1994. Salmon spawning ground surveys in the Bristol Bay area, 1994. Alaska Department of Fish and Game, Division of Commercial Fisheries Management and Development, Regional Information Report 2A94-34, Anchorage.
- Yuen, H. 1984. Bristol Bay salmon (*Oncorhynchus* sp.) 1981 — a compilation of catch, escapement, and biological data. Alaska Department of Fish and Game, Division of Commercial Fisheries, Technical Data Report 129, Juneau.
- Yuen, H., and D. Bill. 1989a. Abundance, age, sex, and size statistics for Pacific salmon (*Oncorhynchus* sp.) in Bristol Bay, 1984. Alaska Department of Fish and Game, Division of Commercial Fisheries, Technical Fishery Report 89-06, Juneau.
- Yuen, H., and D. Bill. 1989b. Abundance, age, sex, and size statistics for Pacific salmon (*Oncorhynchus* sp.) in Bristol Bay, 1985. Alaska Department of Fish and Game, Division of Commercial Fisheries, Technical Fishery Report 89-07, Juneau.
- Yuen, H., and D. Bill. 1990. Abundance, age, sex, and size statistics for Pacific salmon (*Oncorhynchus* sp.) in Bristol Bay, 1986. Alaska Department of Fish and Game, Division of Commercial Fisheries, Technical Fishery Report 90-14, Juneau.
- Yuen, H., and C. Meacham. 1983. Bristol Bay salmon (*Oncorhynchus* sp.) 1979 — a compilation of catch, escapement, and biological data. Alaska Department of Fish and Game, Division of Commercial Fisheries, Technical Data Report 94, Juneau.
- Yuen, H., and M. Nelson. 1983. Bristol Bay salmon (*Oncorhynchus* sp.) 1978 — a compilation of catch and escapement data. Alaska Department of Fish and Game, Division of Commercial Fisheries, Technical Data Report 88, Juneau.
- Yuen, H., and M. Nelson. 1984a. Bristol Bay chinook salmon (*Oncorhynchus tshawytscha*) sex, age, weight, and length statistics, 1966–1977. Alaska Department of Fish and Game, Division of Commercial Fisheries, Technical Data Report 120, Juneau.

LITERATURE CITED (Continued)

- Yuen, H., and M. Nelson. 1984b. Bristol Bay chum salmon (*Oncorhynchus keta*) sex, age, weight, and length statistics, 1960 to 1977. Alaska Department of Fish and Game, Division of Commercial Fisheries, Technical Data Report 127, Juneau.
- Yuen, H., and M. Nelson. 1985. Bristol Bay pink (*Oncorhynchus gorbuscha*) and coho salmon (*O. kisutch*) sex, age, weight, and length statistics, 1961–1976. Alaska Department of Fish and Game, Division of Commercial Fisheries, Technical Data Report 156, Juneau.
- Yuen, H., and M. Nelson. 1987. 1983 Bristol Bay salmon (*Oncorhynchus* sp.) — a compilation of catch, escapement, and biological data. Alaska Department of Fish and Game, Division of Commercial Fisheries, Technical Data Report 191, Juneau.
- Yuen, H., B. Bue, and C. Meacham. 1981. Bristol Bay sockeye salmon (*Oncorhynchus nerka*) age, weight, and length statistics, 1957–1977. Alaska Department of Fish and Game, Division of Commercial Fisheries, Technical Data Report 67, Juneau.
- Yuen, H., M. Nelson, and R. Minard. 1986. Bristol Bay salmon (*Oncorhynchus* sp.) 1982 — a compilation of catch, escapement, and biological data. Alaska Department of Fish and Game, Division of Commercial Fisheries, Technical Data Report 175, Juneau.
- Yuen, H., and four coauthors. 1984. Bristol Bay salmon (*Oncorhynchus* sp.) 1980 — a compilation of catch, escapement, and biological data. Alaska Department of Fish and Game, Division of Commercial Fisheries, Technical Data Report 128, Juneau.

Table 1. Bristol Bay sockeye salmon run, 1993.

System ^a		Age Group															Total
		0.2	1.1	0.3	1.2	2.1	0.4	1.3	2.2	3.1	1.4	2.3	3.2	2.4	3.3	3.4	
Kvichak	C	0	3,953	5,481	1,108,954	1,113	0	1,388,262	2,286,304	0	2,142	484,170	3,544	0	3,600	0	5,287,523
	E	5,310	4,138	46,934	910,608	115,822	896	973,736	1,776,665	0	2,592	188,465	0	0	0	0	4,025,166
	I	5,310	8,091	52,415	2,019,562	116,935	896	2,361,998	4,062,969	0	4,734	672,635	3,544	0	3,600	0	9,312,689
	S	523	0	1,926	127,813	144	35	108,334	322,184	0	233	27,113	543	0	264	0	589,113
	T	5,833	8,091	54,341	2,147,375	117,079	931	2,470,332	4,385,153	0	4,967	699,748	4,087	0	3,864	0	9,901,802
Branch	C	0	0	0	182,615	10	0	83,194	145,511	0	1,721	55,076	314	0	320	0	468,761
	E	0	2,437	0	149,901	2,113	0	58,134	113,231	0	750	21,409	0	0	0	0	347,975
	I	0	2,437	0	332,516	2,123	0	141,328	258,742	0	2,471	76,485	314	0	320	0	816,736
	S	0	0	0	21,044	3	0	6,482	20,518	0	122	3,083	48	0	24	0	51,323
	T	0	2,437	0	353,560	2,126	0	147,810	279,260	0	2,593	79,568	362	0	344	0	868,059
Naknek	C	0	0	0	116,859	657	0	450,392	268,604	0	54,131	2,232,874	2,112	23,819	2,144	0	3,151,592
	E	0	0	0	95,857	4,388	0	310,303	209,405	0	36,054	867,410	0	12,241	0	0	1,535,658
	I	0	0	0	212,716	5,045	0	760,695	478,009	0	90,185	3,100,284	2,112	36,060	2,144	0	4,687,250
	S	0	0	0	13,462	6	0	34,890	37,905	0	4,435	124,967	324	2,147	157	0	218,294
	T	0	0	0	226,178	5,051	0	795,585	515,914	0	94,620	3,225,251	2,436	38,207	2,301	0	4,905,544
Egegik	C	0	0	6,141	467,614	0	0	1,149,266	9,629,905	0	86,283	10,051,082	106,349	75,104	29,114	0	21,600,858
	E	0	0	0	14,832	33,519	0	72,585	618,354	0	10,392	752,415	9,308	3,093	2,502	0	1,517,000
	I	0	0	6,141	482,446	33,519	0	1,221,851	10,248,259	0	96,675	10,803,497	115,657	78,197	31,616	0	23,117,858
	S	0	0	226	30,533	41	0	56,041	812,663	0	4,754	435,470	17,729	4,656	2,323	0	1,364,436
	T	0	0	6,367	512,979	33,560	0	1,277,892	11,060,922	0	101,429	11,238,967	133,386	82,853	33,939	0	24,482,294
Ugashik	C	0	0	4,810	363,966	2,347	0	446,722	1,609,938	0	19,937	1,709,640	9,061	10,479	0	0	4,176,900
	E	188	1,131	1,508	288,918	11,719	0	215,383	376,811	0	3,424	510,930	0	3,442	0	0	1,413,454
	I	188	1,131	6,318	652,884	14,066	0	662,105	1,986,749	0	23,361	2,220,570	9,061	13,921	0	0	5,590,354
	S	19	0	232	41,319	17	0	30,368	157,544	0	1,149	89,507	1,389	829	0	0	322,374
	T	207	1,131	6,550	694,203	14,083	0	692,473	2,144,293	0	24,510	2,310,077	10,450	14,750	0	0	5,912,728
Wood	C	6,913	0	10,552	1,484,918	0	2,279	903,761	71,889	0	4,385	64,350	0	0	0	0	2,549,047
	E	2,056	623	4,417	671,131	0	1,048	458,396	11,505	0	3,246	23,704	0	0	0	0	1,176,126
	I	8,969	623	14,969	2,156,049	0	3,327	1,362,157	83,394	0	7,631	88,054	0	0	0	0	3,725,173
	S	883	0	550	136,451	0	130	62,476	6,613	0	375	3,549	0	0	0	0	211,028
	T	9,852	623	15,519	2,292,500	0	3,457	1,424,633	90,007	0	8,006	91,603	0	0	0	0	3,936,201
Igushik	C	580	0	12,704	354,896	0	1,160	739,639	34,887	0	6,959	23,687	0	0	0	0	1,174,512
	E	0	194	1,509	122,761	0	0	269,908	3,004	0	4,155	4,033	0	0	0	0	405,564
	I	580	194	14,213	477,657	0	1,160	1,009,547	37,891	0	11,114	27,720	0	0	0	0	1,580,076
	S	57	0	522	30,230	0	45	46,303	3,005	0	547	1,117	0	0	0	0	81,826
	T	637	194	14,735	507,887	0	1,205	1,055,850	40,896	0	11,661	28,837	0	0	0	0	1,661,902
Snake	C	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	14
	E	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-
	I	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	14
	S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	T	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	14
Nushagak	C	12,331	0	356,983	83,250	0	83,198	906,347	9,756	0	53,898	7,221	0	0	0	0	1,512,984
	E	35,687	0	108,828	33,281	0	32,663	457,304	1,450	0	42,831	2,661	0	394	0	0	715,099
	I	48,018	0	465,811	116,531	0	115,861	1,363,651	11,206	0	96,729	9,882	0	394	0	0	2,228,083
	S	4,726	0	17,118	7,375	0	4,534	62,545	889	0	4,757	398	0	23	0	0	102,365
	T	52,744	0	482,929	123,906	0	120,395	1,426,196	12,095	0	101,486	10,280	0	417	0	0	2,330,448
Togiak	C	1,001	0	34,041	89,758	0	2,720	262,278	19,355	0	6,557	60,089	0	0	0	0	475,799
	E	0	0	1,119	34,596	0	0	123,118	11,796	0	361	17,620	0	0	0	0	188,610
	I	1,001	0	35,160	124,354	0	2,720	385,396	31,151	0	6,918	77,709	0	0	0	0	664,409
	S	99	0	1,292	7,870	0	106	17,676	2,470	0	340	3,132	0	0	0	0	32,986
	T	1,100	0	36,452	132,224	0	2,826	403,072	33,621	0	7,258	80,841	0	0	0	0	697,395
Summary	C	20,825	3,953	430,712	4,252,830	4,127	89,357	6,329,861	14,076,149	0	236,013	14,688,189	121,380	109,402	35,178	0	40,397,990
	E	43,241	8,523	164,315	2,321,885	167,561	34,607	2,938,867	3,122,221	0	103,805	2,388,647	9,308	19,170	2,502	0	11,324,652
	I	64,066	12,476	595,027	6,574,715	171,688	123,964	9,268,728	17,198,370	0	339,818	17,076,836	130,688	128,572	37,680	0	51,722,642
	S	6,306	0	21,867	416,097	212	4,851	425,115	1,363,790	0	16,711	688,338	20,033	7,656	2,768	0	2,973,744
	T	70,372	12,476	616,894	6,990,812	171,900	128,815	9,693,843	18,562,160	0	356,529	17,765,174	150,721	136,228	40,448	0	54,696,386

^a C = Catch, E = Escapement, I = Inshore Return, S = South Peninsula Catch, and T = Total. Egegik escapement includes Shosky Creek; Ugashik escapement includes King Salmon and Dog Salmon Rivers; Togiak catch is Togiak River Section only and Togiak escapement includes the tower counts, and lower river and tributaries aerial survey estimate.

Table 2. Age, sex, and size (length in mm and weight in kg) composition of sockeye salmon commercial catch and escapement, Bristol Bay, 1993.

	Age Group													Total
	0.2	1.1	0.3	1.2	2.1	0.4	1.3	2.2	1.4	2.3	3.2	2.4	3.3	
Males														
Percent	0.11	0.01	0.39	6.18	0.32	0.08	8.03	15.67	0.31	15.68	0.08	0.11	0.03	47.00
Sample Size	119	12	313	3,176	190	54	5,277	4,063	181	4,789	23	37	9	18,243
Mean Length	429	223	576	506	360	617	579	534	606	583	528	592	612	554
Std. Error	5	5	2	1	2	5	1	1	3	1	23	7	6	0
Sample Size	119	10	312	3,147	189	54	5,256	4,037	180	4,767	23	36	9	18,139
Mean Weight	1.81		3.36	2.24	0.90	3.61	3.16	2.43	3.56	3.21	1.89		4.34	2.79
Std. Error			0.17	0.02			0.05	0.03	0.49	0.04				0.02
Sample Size			25	256	1	5	443	294	14	330	4		1	1,373
Females														
Percent	0.02	0.01	0.76	6.53	0.02	0.16	9.89	17.58	0.35	17.33	0.17	0.14	0.04	53.00
Sample Size	9	3	430	4,118	12	104	6,029	5,049	205	4,979	52	34	10	21,034
Mean Length	490	576	546	490	415	579	556	519	572	563	521	576	573	538
Std. Error	27		1	1	94	2	1	1	3	1	4	7	12	0
Sample Size	9	3	430	4,088	12	104	6,003	5,024	205	4,962	52	34	10	20,936
Mean Weight	1.81		2.81	1.95		3.24	2.77	2.14	3.09	2.81	1.68	3.17	2.87	2.47
Std. Error			0.05	0.03		0.29	0.02	0.02	0.10	0.02	0.13			0.01
Sample Size	1		43	262		9	560	354	17	370	4	4	1	1,625
Both Sexes														
Percent	0.13	0.02	1.15	12.71	0.34	0.24	17.92	33.25	0.66	33.01	0.25	0.25	0.07	100.00
Sample Size	128	15	743	7,294	202	158	11,306	9,112	386	9,768	75	71	19	39,277
Mean Length	437	366	556	498	363	591	566	526	588	572	523	583	590	545
Std. Error	5	5	1	0	3	2	0	0	2	0	7	5	5	0
Sample Size	128	13	742	7,235	201	158	11,259	9,061	385	9,729	75	70	19	39,075
Mean Weight	1.81		2.97	2.10	0.90	3.32	2.94	2.28	3.32	3.00	1.77	3.17	3.97	2.62
Std. Error			0.06	0.02		0.29	0.02	0.02	0.14	0.02	0.13			0.01
Sample Size	1		68	518	1	14	1,003	648	31	700	8	4	2	2,998

Table 3. Age, sex, and size (length in mm and weight in kg) composition of sockeye salmon commercial catch, Naknek-Kvichak District, 1993.

	Age Group											Total
	1.1	0.3	1.2	2.1	1.3	2.2	1.4	2.3	3.2	2.4	3.3	
Sample Period 1: June 2 - June 23												
Males			47,409		142,226	145,495	3,270	215,791		4,904		559,095
Percent			5.71		17.13	17.52	0.39	25.98		0.59		67.32
Sample Size			29		87	89	2	132		3		342
Mean Length			513		576	531	646	581		607		561
Std. Error			6		5	4	9	3		7		2
Sample Size			29		87	89	2	132		3		342
Mean Weight			2.19		2.88	2.49		3.37				2.91
Std. Error					0.22	0.15		0.21				0.11
Sample Size			1		5	6		9				21
Females			14,713		80,104	71,930	1,635	102,991				271,373
Percent			1.77		9.65	8.66	0.20	12.40				32.68
Sample Size			9		49	44	1	63				166
Mean Length			512		576	515	596	569				554
Std. Error			15		4	5		3				2
Sample Size			9		49	44	1	63				166
Mean Weight					3.31	2.27	3.82	3.06				2.92
Std. Error					0.13	0.22		0.16				0.10
Sample Size					11	4	1	7				23
Both Sexes			62,122		222,330	217,425	4,905	318,782		4,904		830,468
Percent			7.48		26.77	26.18	0.59	38.39		0.59		100.00
Sample Size			38		136	133	3	195		3		508
Mean Length			513		576	526	629	577		607		559
Std. Error			6		3	3	9	2		7		1
Sample Size			38		136	133	3	195		3		508
Mean Weight			2.19		3.03	2.42	3.82	3.27				2.91
Std. Error					0.15	0.12		0.15				0.08
Sample Size			1		16	10	1	16				44
Sample Period 2: June 24 - June 26												
Males			13,065		29,396	54,710	817	103,703		817		202,508
Percent			3.05		6.87	12.79	0.19	24.24		0.19		47.33
Sample Size			16		36	67	1	127		1		248
Mean Length			529		584	530	565	582		575		565
Std. Error			9		5	3		2				2
Sample Size			16		36	67	1	127		1		248
Mean Weight			2.84		3.33	2.57	3.46	3.47				3.16
Std. Error					0.42	0.15		0.16				0.11
Sample Size			1		5	4	1	9				20
Females			17,964		40,828	57,976	817	106,969		817		225,371
Percent			4.20		9.54	13.55	0.19	25.00		0.19		52.67
Sample Size			22		50	71	1	131		1		276
Mean Length			510		559	522	560	561		534		547
Std. Error			8		3	3		2				1
Sample Size			22		50	71	1	131		1		276
Mean Weight			2.05		2.82	2.17		2.77				2.57
Std. Error			0.04		0.11	0.15		0.08				0.06
Sample Size			2		7	7		18				34
Both Sexes			31,029		70,224	112,686	1,634	210,672		1,634		427,879
Percent			7.25		16.41	26.34	0.38	49.24		0.38		100.00
Sample Size			38		86	138	2	258		2		524
Mean Length			518		570	526	563	571		555		555
Std. Error			6		3	2		1				1
Sample Size			38		86	138	2	258		2		524
Mean Weight			2.38		3.03	2.36	3.46	3.11				2.85
Std. Error			0.04		0.19	0.11		0.09				0.06
Sample Size			3		12	11	1	27				54

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Table 3. (p 2 of 7)

	Age Group											Total
	1.1	0.3	1.2	2.1	1.3	2.2	1.4	2.3	3.2	2.4	3.3	
Sample Period 3: June 27												
Males		26,389			37,699	37,699		90,478		1,257		193,522
Percent		5.83			8.33	8.33		20.00		0.28		42.78
Sample Size		21			30	30		72		1		154
Mean Length		509			583	520		587		597		563
Std. Error		7			6	7		3				2
Sample Size		21			30	30		71		1		153
Mean Weight		1.71			3.50	2.21		3.62				3.06
Std. Error		0.40			0.13	0.44		0.12				0.12
Sample Size		2			4	3		18				27
Females		31,416			60,318	56,549	6,283	103,043		1,257		258,866
Percent		6.94			13.33	12.50	1.39	22.78		0.28		57.22
Sample Size		25			48	45	5	82		1		206
Mean Length		500			565	514	584	563		574		546
Std. Error		5			4	5	4	3				2
Sample Size		25			48	45	5	82		1		206
Mean Weight		1.87			2.99	1.81	3.34	2.94				2.58
Std. Error		0.10			0.15	0.09	0.17	0.09				0.05
Sample Size		8			8	9	3	19				47
Both Sexes		57,805			98,017	94,248	6,283	193,521		2,514		452,388
Percent		12.78			21.67	20.83	1.39	42.78		0.56		100.00
Sample Size		46			78	75	5	154		2		360
Mean Length		504			571	516	584	575		586		553
Std. Error		4			3	4	4	2				1
Sample Size		46			78	75	5	153		2		359
Mean Weight		1.80			3.19	1.97	3.34	3.26				2.79
Std. Error		0.19			0.10	0.19	0.17	0.07				0.06
Sample Size		10			12	12	3	37				74
Sample Period 4: June 28 - June 29												
Males		46,052			98,244	159,646	3,070	211,839		3,070		521,921
Percent		4.11			8.77	14.25	0.27	18.90		0.27		46.58
Sample Size		15			32	52	1	69		1		170
Mean Length		524			571	539	654	580		574		561
Std. Error		10			6	5		3				2
Sample Size		15			32	52	1	69		1		170
Mean Weight		3.22			2.72	2.72		2.92				2.85
Std. Error					0.36	0.16		0.17				0.11
Sample Size		1			3	8		7				19
Females		58,332			125,875	165,787	12,280	233,330		3,070		598,674
Percent		5.21			11.23	14.79	1.10	20.82		0.27		53.42
Sample Size		19			41	54	4	76		1		195
Mean Length		504			565	520	567	567		604		548
Std. Error		7			3	4	6	3				2
Sample Size		19			41	54	4	76		1		195
Mean Weight		1.54			2.65	1.86		3.01				2.46
Std. Error		0.02			0.08	0.09		0.11				0.05
Sample Size		2			6	3		12				23
Both Sexes		104,384			224,119	325,433	15,350	445,169		6,140		1,120,595
Percent		9.32			20.00	29.04	1.37	39.73		0.55		100.00
Sample Size		34			73	106	5	145		2		365
Mean Length		513			568	529	584	573		589		554
Std. Error		6			3	3	6	2				2
Sample Size		34			73	106	5	145		2		365
Mean Weight		2.28			2.68	2.28		2.97				2.64
Std. Error		0.02			0.16	0.09		0.10				0.06
Sample Size		3			9	11		19				42

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Table 3. (p 3 of 7)

	Age Group										Total	
	1.1	0.3	1.2	2.1	1.3	2.2	1.4	2.3	3.2	2.4		3.3
Sample Period 5: June 30 - July 1												
Males		3,953	106,732		63,249	252,995		122,545				549,474
Percent		0.38	10.19		6.04	24.15		11.70				52.45
Sample Size		1	27		16	64		31				139
Mean Length		622	532		587	530		585				550
Std. Error			6		5	3		4				2
Sample Size		1	27		16	64		31				139
Mean Weight			2.37		3.13	2.40		3.04				2.62
Std. Error			0.13		0.26	0.08						0.05
Sample Size			6		2	14		1				23
Females	3,953		59,296		102,779	197,652		134,404				498,084
Percent	0.38		5.66		9.81	18.87		12.83				47.55
Sample Size	1		15		26	50		34				126
Mean Length	598		505		559	535		569				546
Std. Error			6		5	3		4				2
Sample Size	1		15		26	50		34				126
Mean Weight			2.09		2.79	2.51		2.83				2.60
Std. Error					0.18	0.10		0.14				0.07
Sample Size			1		2	11		9				23
Both Sexes	3,953	3,953	166,028		166,028	450,647		256,949				1,047,558
Percent	0.38	0.38	15.85		15.85	43.02		24.53				100.00
Sample Size	1	1	42		42	114		65				265
Mean Length	598	622	522		570	532		577				548
Std. Error			4		3	2		3				2
Sample Size	1	1	42		42	114		65				265
Mean Weight			2.27		2.92	2.45		2.93				2.61
Std. Error			0.13		0.15	0.06		0.14				0.04
Sample Size			7		4	25		10				46
Sample Period 6: July 2 - July 3												
Males			219,942		244,774	248,321		141,898				854,935
Percent			11.48		12.78	12.96		7.41				44.63
Sample Size			62		69	70		40				241
Mean Length			523		588	548		591				560
Std. Error			3		3	4		5				2
Sample Size			62		69	70		39				240
Mean Weight			2.24		2.97	2.49		3.36				2.71
Std. Error			0.09		0.22	0.11		0.39				0.10
Sample Size			17		10	22		6				55
Females			219,942		329,914	308,628	7,095	188,015		3,547	3,547	1,060,688
Percent			11.48		17.22	16.11	0.37	9.81		0.19	0.19	55.37
Sample Size			62		93	87	2	53		1	1	299
Mean Length			506		563	531	585	566		596	592	543
Std. Error			3		2	3	32	3				1
Sample Size			62		93	87	2	53		1	1	299
Mean Weight			2.06		2.71	2.53		2.80		3.22		2.54
Std. Error			0.12		0.07	0.10		0.12				0.05
Sample Size			13		23	22		13		1		72
Both Sexes			439,884		574,688	556,949	7,095	329,913		3,547	3,547	1,915,623
Percent			22.96		30.00	29.07	0.37	17.22		0.19	0.19	100.00
Sample Size			124		162	157	2	93		1	1	540
Mean Length			514		573	538	585	577		596	592	550
Std. Error			2		2	2	32	3				1
Sample Size			124		162	157	2	92		1	1	539
Mean Weight			2.15		2.82	2.51		3.04		3.22		2.61
Std. Error			0.08		0.10	0.08		0.18				0.05
Sample Size			30		33	44		19		1		127

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Table 3. (p 4 of 7)

	Age Group										Total	
	1.1	0.3	1.2	2.1	1.3	2.2	1.4	2.3	3.2	2.4		3.3
Sample Period 7: July 4 - July 5												
Males		84,667			81,797	152,114	1,435	144,938	1,435			466,386
Percent		7.62			7.36	13.70	0.13	13.05	0.13			41.99
Sample Size		59			57	106	1	101	1			325
Mean Length		517			584	534	638	586	567			556
Std. Error		4			3	3		3				1
Sample Size		59			57	105	1	101	1			324
Mean Weight		2.46			3.51	2.57		3.21	2.76			2.92
Std. Error		0.10			0.14	0.11		0.13				0.06
Sample Size		9			4	11		12	1			37
Females	111,933		97,582	232,475			199,470	1,435		1,435	644,330	
Percent	10.08		8.79	20.93			17.96	0.13		0.13	58.01	
Sample Size	78		68	162			139	1		1	449	
Mean Length	503		563	517			563	554		540	536	
Std. Error	4		3	2			2				1	
Sample Size	78		68	161			139	1		1	448	
Mean Weight	2.16		2.79	2.39			2.67				2.50	
Std. Error	0.11		0.12	0.10			0.09				0.05	
Sample Size	8		11	13			18				50	
Both Sexes	196,600	179,379	384,589	1,435	344,408	2,870	1,435	1,110,716			100.00	
Percent	17.70	16.15	34.63	0.13	31.01	0.26	0.13	0.13			100.00	
Sample Size	137	125	268	1	240	2	1	774			774	
Mean Length	509	573	524	638	572	561		540			544	
Std. Error	3	2	2		2						1	
Sample Size	137	125	266	1	240	2		1			772	
Mean Weight	2.29	3.12	2.46		2.90	2.76					2.67	
Std. Error	0.08	0.09	0.08		0.07						0.04	
Sample Size	17	15	24		30	1					87	
Sample Period 8: July 6 - July 7												
Males	66,760	61,753	61,753		103,477	1,669		295,412			35.69	
Percent	8.06	7.46	7.46		12.50	0.20		35.69			35.69	
Sample Size	40	37	37		62	1		177			177	
Mean Length	512	579	532		585	506		556			556	
Std. Error	4	4	4		3			2			2	
Sample Size	40	37	37		62	1		177			177	
Mean Weight	2.15	3.01	2.40		2.73			2.59			2.59	
Std. Error	0.07	0.14	0.08		0.07			0.05			0.05	
Sample Size	9	7	4		15			35			35	
Females	121,837	120,168	138,527	3,338	145,202		3,338	532,410			64.31	
Percent	14.72	14.52	16.73	0.40	17.54		0.40	64.31			64.31	
Sample Size	73	72	83	2	87		2	319			319	
Mean Length	504	558	523	598	561		539	537			537	
Std. Error	3	2	3		3		11	1			1	
Sample Size	73	72	83	2	87		2	319			319	
Mean Weight	2.02	2.59	2.19		2.56		2.22	2.34			2.34	
Std. Error	0.09	0.07	0.07		0.08			0.04			0.04	
Sample Size	3	13	18		22		1	57			57	
Both Sexes	188,597	181,921	200,280	3,338	248,679	1,669	3,338	827,822			100.00	
Percent	22.78	21.98	24.19	0.40	30.04	0.20	0.40	100.00			100.00	
Sample Size	113	109	120	2	149	1	2	496			496	
Mean Length	507	565	526	598	571	506	539	544			544	
Std. Error	2	2	2		2		11	1			1	
Sample Size	113	109	120	2	149	1	2	496			496	
Mean Weight	2.07	2.73	2.25		2.63		2.22	2.43			2.43	
Std. Error	0.06	0.07	0.05		0.06			0.03			0.03	
Sample Size	12	20	22		37		1	92			92	

- Continued -

Table 3. (p 5 of 7)

	Age Group											Total
	1.1	0.3	1.2	2.1	1.3	2.2	1.4	2.3	3.2	2.4	3.3	
Sample Period 9: July 8 - July 9												
Males			40,030		43,276	87,632	4,328	80,060				255,326
Percent			6.94		7.50	15.20	0.75	13.88				44.28
Sample Size			37		40	81	4	74				236
Mean Length			519		581	545	619	580				559
Std. Error			5		4	4	14	3				2
Sample Size			37		40	81	4	73				235
Mean Weight			2.30		3.07	2.63		2.99				2.77
Std. Error			0.08		0.16	0.16		0.20				0.09
Sample Size			4		3	7		3				17
Females	1,082	51,931	1,082	61,668	100,615	3,246	100,616			1,082		321,322
Percent	0.19	9.01	0.19	10.69	17.45	0.56	17.45			0.19		55.72
Sample Size	1	48	1	57	93	3	93			1		297
Mean Length	500	494	358	565	519	534	555			557		535
Std. Error		3		3	3	20	3					2
Sample Size	1	48	1	57	93	3	93			1		297
Mean Weight		1.98		2.79	2.23		2.71					2.45
Std. Error		0.06		0.12	0.12		0.08					0.05
Sample Size		5		7	6		9					27
Both Sexes	1,082	91,961	1,082	104,944	188,247	7,574	180,676			1,082		576,648
Percent	0.19	15.95	0.19	18.20	32.65	1.31	31.33			0.19		100.00
Sample Size	1	85	1	97	174	7	167			1		533
Mean Length	500	505	358	571	531	582	566			557		546
Std. Error		3		3	3	12	2					1
Sample Size	1	85	1	97	174	7	166			1		532
Mean Weight		2.12		2.91	2.42		2.83					2.59
Std. Error		0.05		0.10	0.10		0.10					0.05
Sample Size		9		10	13		12					44
Sample Period 10: July 10 - July 11												
Males			16,682		22,602	32,288	2,153	51,662	538		538	126,463
Percent			5.96		8.08	11.54	0.77	18.46	0.19		0.19	45.19
Sample Size			31		42	60	4	96	1		1	235
Mean Length			513		567	533	605	580	532		542	557
Std. Error			5		5	4	14	3				2
Sample Size			31		42	60	4	96	1		1	235
Mean Weight			2.17		2.95	2.00		3.71				2.91
Std. Error			0.01		0.01	0.03		0.19				0.08
Sample Size			2		2	3		10				17
Females			24,754		20,987	62,426	1,614	43,589				153,370
Percent			8.85		7.50	22.31	0.58	15.58				54.81
Sample Size			46		39	116	3	81				285
Mean Length			499		552	519	587	553				531
Std. Error			4		4	3	11	2				2
Sample Size			46		39	116	3	81				285
Mean Weight			1.77		2.29	2.02	4.23	2.86				2.28
Std. Error			0.07		0.11	0.10		0.11				0.05
Sample Size			5		3	11	1	9				29
Both Sexes			41,436		43,589	94,714	3,767	95,251	538		538	279,833
Percent			14.81		15.58	33.85	1.35	34.04	0.19		0.19	100.00
Sample Size			77		81	176	7	177	1		1	520
Mean Length			505		560	524	597	567	532		542	542
Std. Error			3		3	2	9	2				1
Sample Size			77		81	176	7	177	1		1	520
Mean Weight			1.93		2.63	2.01	4.23	3.32				2.56
Std. Error			0.04		0.05	0.07		0.11				0.05
Sample Size			7		5	14	1	19				46

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Table 3. (p 6 of 7)

	Age Group										Total	
	1.1	0.3	1.2	2.1	1.3	2.2	1.4	2.3	3.2	2.4		3.3
Sample Period 11: July 12 - July 14												
Males			9,376	446	22,323	26,788	1,786	48,218				108,937
Percent			3.91	0.19	9.31	11.17	0.74	20.11				45.44
Sample Size			21	1	50	60	4	108				244
Mean Length			513	393	582	542	616	587				568
Std. Error			4		3	4	11	3				2
Sample Size			21	1	50	60	4	108				244
Mean Weight			2.19	0.90	3.42	2.38		3.66				3.15
Std. Error			0.10		0.31	0.29		0.13				0.11
Sample Size			3	1	6	8		23				41
Females		446	13,394		24,556	35,271	2,679	53,129	893	446		130,814
Percent		0.19	5.59		10.24	14.71	1.12	22.16	0.37	0.19		54.56
Sample Size		1	30		55	79	6	119	2	1		293
Mean Length		551	503		556	518	584	564	533	563		544
Std. Error			6		4	3	7	2	23			1
Sample Size		1	30		55	79	6	119	2	1		293
Mean Weight			1.86		2.47	2.10	3.50	2.79				2.46
Std. Error			0.12		0.14	0.12	0.18	0.07				0.05
Sample Size			4		14	12	3	18				51
Both Sexes		446	22,770	446	46,879	62,059	4,465	101,347	893	446		239,751
Percent		0.19	9.50	0.19	19.55	25.88	1.86	42.27	0.37	0.19		100.00
Sample Size		1	51	1	105	139	10	227	2	1		537
Mean Length		551	507	393	569	528	597	575	533	563		555
Std. Error			4		3	2	6	2	23			1
Sample Size		1	51	1	105	139	10	227	2	1		537
Mean Weight			2.00	0.90	2.92	2.22	3.50	3.20				2.77
Std. Error			0.08		0.16	0.14	0.18	0.07				0.06
Sample Size			7	1	20	20	3	41				92
Sample Period 12: July 15 - August 6												
Males			1,516	126	5,181	3,412	1,390	22,492		758		34,875
Percent			1.93	0.16	6.59	4.34	1.77	28.62		0.96		44.37
Sample Size			12	1	41	27	11	178		6		276
Mean Length			488	323	574	519	592	581		581		569
Std. Error			8		5	9	8	2		15		2
Sample Size			12	1	41	27	11	178		6		276
Females			4,296	126	4,549	9,730	758	24,261				43,720
Percent			5.47	0.16	5.79	12.38	0.96	30.87				55.63
Sample Size			34	1	36	77	6	192				346
Mean Length			480	316	546	493	565	556				533
Std. Error			5		5	3	12	2				1
Sample Size			34	1	35	77	6	192				345
Both Sexes			5,812	252	9,730	13,142	2,148	46,753		758		78,595
Percent			7.39	0.32	12.38	16.72	2.73	59.49		0.96		100.00
Sample Size			46	2	77	104	17	370		6		622
Mean Length			482	320	561	499	582	568		581		549
Std. Error			4		4	3	7	1		15		1
Sample Size			46	2	76	104	17	370		6		621

- Continued -

Table 3. (p 7 of 7)

	Age Group											Total
	1.1	0.3	1.2	2.1	1.3	2.2	1.4	2.3	3.2	2.4	3.3	
All Periods Combined:												
Males	3,953	678,620	572	852,520	1,262,853	18,249	1,337,101	3,642	11,344			4,168,854
Percent	0.04	7.62	0.01	9.57	14.18	0.20	15.01	0.04	0.13			46.80
Sample Size	1	370	2	537	743	28	1,090	3	13			2,787
Mean Length	622	521	378	581	536	625	584	534	590			559
Std. Error		2		2	1	6	1		6			1
Sample Size	1	370	2	537	742	28	1,087	3	13			2,783
Mean Weight		2.33	0.90	3.05	2.50	3.46	3.22	2.76				2.82
Std. Error		0.05		0.09	0.04		0.07					0.03
Sample Size		55	1	51	90	1	113	1				312
Females	3,953	1,528	729,808	1,208	1,069,328	1,437,566	39,745	1,435,019	2,328	12,475	6,064	4,739,022
Percent	0.04	0.02	8.19	0.01	12.00	16.14	0.45	16.11	0.03	0.14	0.07	53.20
Sample Size	1	2	461	2	634	961	33	1,150	3	7	3	3,257
Mean Length	598	515	504	354	563	524	576	564	546	575	573	542
Std. Error			1		1	1	7	1	23	11		1
Sample Size	1	2	461	2	633	960	33	1,150	3	7	3	3,255
Mean Weight			2.00		2.76	2.28	3.56	2.82		2.74		2.52
Std. Error			0.05		0.04	0.04	0.13	0.04				0.02
Sample Size			51		105	116	8	154		2		436
Both Sexes	3,953	5,481	1,408,428	1,780	1,921,848	2,700,419	57,994	2,772,120	5,970	23,819	6,064	8,907,876
Percent	0.04	0.06	15.81	0.02	21.57	30.31	0.65	31.12	0.07	0.27	0.07	100.00
Sample Size	1	3	831	4	1,171	1,704	61	2,240	6	20	3	6,044
Mean Length	598	592	512	361	571	530	591	573	539	582	573	550
Std. Error			1		1	1	6	1	23	6		0
Sample Size	1	3	831	4	1,170	1,702	61	2,237	6	20	3	6,038
Mean Weight			2.16	0.90	2.89	2.38	3.55	3.01	2.76	2.74		2.66
Std. Error			0.03		0.04	0.03	0.13	0.04				0.02
Sample Size			106	1	156	206	9	267	1	2		748

Table 4. Age, sex, and size (length in mm and weight in kg) composition of sockeye salmon escapement, Kvichak River, 1993.

	Age Group										Total
	0.2	1.1	0.3	1.2	2.1	0.4	1.3	2.2	1.4	2.3	
Sample Period 1: June 22 - June 28											
Males			930	39,992	4,650		93,005	106,956		23,251	268,784
Percent			0.17	7.15	0.83		16.64	19.13		4.16	48.09
Sample Size			1	43	5		100	115		25	289
Mean Length			620	508	384		606	551		603	565
Std. Error				6	11		3	3		6	2
Sample Size			1	43	5		100	115		25	289
Females				37,202			97,655	131,138		24,181	290,176
Percent				6.66			17.47	23.46		4.33	51.91
Sample Size				40			105	141		26	312
Mean Length				515			577	533		578	549
Std. Error				5			3	2		5	1
Sample Size				40			105	141		26	312
Both Sexes			930	77,194	4,650		190,660	238,094		47,432	558,960
Percent			0.17	13.81	0.83		34.11	42.60		8.49	100.00
Sample Size			1	83	5		205	256		51	601
Mean Length			620	512	384		591	541		590	557
Std. Error				4	11		2	2		4	1
Sample Size			1	83	5		205	256		51	601
Sample Period 2: June 29 - July 3											
Males			2,913	79,625	13,595		70,886	131,089		15,537	313,645
Percent			0.47	12.77	2.18		11.37	21.03		2.49	50.31
Sample Size			3	82	14		73	135		16	323
Mean Length			543	516	358		605	553		606	549
Std. Error			17	4	6		3	3		8	2
Sample Size			3	82	14		73	133		16	321
Females			971	63,117			98,075	131,090		16,508	309,761
Percent			0.16	10.12			15.73	21.03		2.65	49.69
Sample Size			1	65			101	135		17	319
Mean Length			590	516			590	529		579	549
Std. Error				3			3	2		6	1
Sample Size			1	65			101	135		17	319
Both Sexes			3,884	142,742	13,595		168,961	262,179		32,045	623,406
Percent			0.62	22.90	2.18		27.10	42.06		5.14	100.00
Sample Size			4	147	14		174	270		33	642
Mean Length			555	516	358		596	541		592	549
Std. Error			17	3	6		2	2		5	1
Sample Size			4	147	14		174	268		33	640

- Continued -

Table 4. (p 2 of 4)

	Age Group									Total
	0.2	1.1	0.3	1.2	2.1	0.4	1.3	2.2	1.4	
Sample Period 3: July 4 - July 6										
Males	2,069		111,735	22,761		184,156	244,161		26,899	591,781
Percent	0.17		9.39	1.91		15.48	20.52		2.26	49.74
Sample Size	1		54	11		89	118		13	286
Mean Length	340		514	353		604	546		589	552
Std. Error			5	7		4	3		8	2
Sample Size	1		54	11		89	118		13	286
Females			124,150			153,118	291,753		28,968	597,989
Percent			10.43			12.87	24.52		2.43	50.26
Sample Size			60			74	141		14	289
Mean Length			501			574	527		584	536
Std. Error			3			3	2		3	2
Sample Size			60			74	141		14	289
Both Sexes	2,069		235,885	22,761		337,274	535,914		55,867	1,189,770
Percent	0.17		19.83	1.91		28.35	45.04		4.70	100.00
Sample Size	1		114	11		163	259		27	575
Mean Length	340		507	353		590	536		587	544
Std. Error			3	7		3	2		4	1
Sample Size	1		114	11		163	259		27	575
Sample Period 4: July 7 - July 9										
Males		4,257	95,071	25,542		59,597	166,020	1,419	8,514	360,420
Percent		0.58	13.03	3.50		8.17	22.76	0.19	1.17	49.42
Sample Size		3	67	18		42	117	1	6	254
Mean Length		555	531	357		612	555	595	601	545
Std. Error		30	5	5		4	3		17	2
Sample Size		3	67	18		42	117	1	6	254
Females		2,838	122,032	1,419		48,245	187,305		7,095	368,934
Percent		0.39	16.73	0.19		6.61	25.68		0.97	50.58
Sample Size		2	86	1		34	132		5	260
Mean Length		548	505	370		573	530		564	527
Std. Error		13	3			8	2		19	2
Sample Size		2	86	1		34	132		5	260
Both Sexes		7,095	217,103	26,961		107,842	353,325	1,419	15,609	729,354
Percent		0.97	29.77	3.70		14.79	48.44	0.19	2.14	100.00
Sample Size		5	153	19		76	249	1	11	514
Mean Length		552	516	357		594	542	595	584	536
Std. Error		19	2	5		4	2		13	1
Sample Size		5	153	19		76	249	1	11	514

- Continued -

Table 4. (p 3 of 4)

	Age Group										Total
	0.2	1.1	0.3	1.2	2.1	0.4	1.3	2.2	1.4	2.3	
Sample Period 5: July 10 - July 12											
Males	1,792		10,754	50,183	18,819		49,287	118,289		12,546	261,670
Percent	0.38		2.28	10.63	3.98		10.44	25.05		2.66	55.41
Sample Size	2		12	56	21		55	132		14	292
Mean Length	407		566	517	363		601	543		583	538
Std. Error	32		9	5	7		4	3		10	2
Sample Size	2		12	56	21		55	131		14	291
Females		896	12,546	57,352	896	896	37,637	97,679		2,688	210,590
Percent		0.19	2.66	12.14	0.19	0.19	7.97	20.68		0.57	44.59
Sample Size		1	14	64	1	1	42	109		3	235
Mean Length		530	554	504	505	575	570	529		566	531
Std. Error			6	3			4	3		20	2
Sample Size		1	14	64	1	1	42	109		3	235
Both Sexes	1,792	896	23,300	107,535	19,715	896	86,924	215,968		15,234	472,260
Percent	0.38	0.19	4.93	22.77	4.17	0.19	18.41	45.73		3.23	100.00
Sample Size	2	1	26	120	22	1	97	241		17	527
Mean Length	407	530	559	510	369	575	587	536		580	535
Std. Error	32		5	3	7		3	2		9	1
Sample Size	2	1	26	120	22	1	97	240		17	526
Sample Period 6: July 13 - July 25											
Males	3,518	1,173	4,690	48,073	28,140		46,900	71,522	1,173	12,898	218,087
Percent	0.78	0.26	1.04	10.65	6.23		10.39	15.84	0.26	2.86	48.31
Sample Size	3	1	4	41	24		40	61	1	11	186
Mean Length	450	382	562	501	366		597	534	630	592	521
Std. Error	46		9	5	4		4	4		9	2
Sample Size	3	1	4	41	24		40	61	1	11	186
Females			7,035	82,076			35,175	99,663		9,380	233,329
Percent			1.56	18.18			7.79	22.08		2.08	51.69
Sample Size			6	70			30	85		8	199
Mean Length			519	502			567	520		499	520
Std. Error			19	3			5	3		61	3
Sample Size			6	70			30	85		8	199
Both Sexes	3,518	1,173	11,725	130,149	28,140		82,075	171,185	1,173	22,278	451,416
Percent	0.78	0.26	2.60	28.83	6.23		18.18	37.92	0.26	4.94	100.00
Sample Size	3	1	10	111	24		70	146	1	19	385
Mean Length	450	382	536	502	366		584	526	630	553	521
Std. Error	46		12	3	4		3	3		26	2
Sample Size	3	1	10	111	24		70	146	1	19	385

- Continued -

Table 4. (p 4 of 4)

	Age Group										
	0.2	1.1	0.3	1.2	2.1	0.4	1.3	2.2	1.4	2.3	Total
All Periods Combined:											
Males	5,310	3,242	23,544	424,679	113,507		503,831	838,037	2,592	99,645	2,014,387
Percent	0.13	0.08	0.58	10.55	2.82		12.52	20.82	0.06	2.48	50.04
Sample Size	5	2	23	343	93		399	678	2	85	1,630
Mean Length	435	355	562	516	361		605	548	611	596	547
Std. Error	32		8	2	3		2	1		4	1
Sample Size	5	2	23	343	93		399	675	2	85	1,627
Females		896	23,390	485,929	2,315	896	469,905	938,628		88,820	2,010,779
Percent		0.02	0.58	12.07	0.06	0.02	11.67	23.32		2.21	49.96
Sample Size		1	23	385	2	1	386	743		73	1,614
Mean Length		530	544	506	422	575	577	528		570	536
Std. Error			7	1			2	1		7	1
Sample Size		1	23	385	2	1	386	743		73	1,614
Both Sexes	5,310	4,138	46,934	910,608	115,822	896	973,736	1,776,665	2,592	188,465	4,025,166
Percent	0.13	0.10	1.17	22.62	2.88	0.02	24.19	44.14	0.06	4.68	100.00
Sample Size	5	3	46	728	95	1	785	1,421	2	158	3,244
Mean Length	435	393	553	511	362	575	591	537	611	584	541
Std. Error	32		5	1	3		1	1		4	1
Sample Size	5	3	46	728	95	1	785	1,418	2	158	3,241

Table 5. Age, sex, and size (length in mm and weight in kg) composition of sockeye salmon escapement, Naknek River, 1993.

	Age Group							Total
	1.2	2.1	1.3	2.2	1.4	2.3	2.4	
Sample Period 1: June 20 - June 28								
Males	8,014	668	18,699	24,042	2,003	93,495		146,921
Percent	2.37	0.20	5.52	7.10	0.59	27.61		43.39
Sample Size	12	1	28	36	3	140		220
Mean Length	462	320	586	491	628	586		563
Std. Error	7		6	7	1	3		2
Sample Size	12	1	28	36	3	140		220
Females	3,339		31,388	14,024	4,675	134,900	3,339	191,665
Percent	0.99		9.27	4.14	1.38	39.84	0.99	56.61
Sample Size	5		47	21	7	202	5	287
Mean Length	488		563	492	589	568	596	561
Std. Error	12		3	6	15	1	7	1
Sample Size	5		47	21	7	202	5	287
Both Sexes	11,353	668	50,087	38,066	6,678	228,395	3,339	338,586
Percent	3.35	0.20	14.79	11.24	1.97	67.46	0.99	100.00
Sample Size	17	1	75	57	10	342	5	507
Mean Length	469	320	572	491	600	575	596	562
Std. Error	6		3	5	10	1	7	1
Sample Size	17	1	75	57	10	342	5	507
Sample Period 2: June 29 - July 5								
Males	36,435		80,840	59,207	12,525	218,609	4,554	412,170
Percent	4.69		10.41	7.62	1.61	28.15	0.59	53.08
Sample Size	32		71	52	11	192	4	362
Mean Length	459		576	477	603	588	599	559
Std. Error	7		4	6	11	3	5	2
Sample Size	31		64	48	10	179	3	335
Females	19,356	2,277	93,365	42,128	9,109	195,838	2,277	364,350
Percent	2.49	0.29	12.02	5.43	1.17	25.22	0.29	46.92
Sample Size	17	2	82	37	8	172	2	320
Mean Length	466	447	559	499	580	562	584	549
Std. Error	13	94	3	6	8	2	18	2
Sample Size	15	2	76	32	8	159	2	294
Both Sexes	55,791	2,277	174,205	101,335	21,634	414,447	6,831	776,520
Percent	7.18	0.29	22.43	13.05	2.79	53.37	0.88	100.00
Sample Size	49	2	153	89	19	364	6	682
Mean Length	461	447	567	486	593	576	594	554
Std. Error	6	94	3	4	7	2	7	1
Sample Size	46	2	140	80	18	338	5	629

- Continued -

Table 5. (p 2 of 3)

	Age Group							Total
	1.2	2.1	1.3	2.2	1.4	2.3	2.4	
Sample Period 3: July 6 - July 9								
Males	5,999	800	17,596	12,797	2,400	51,589	400	91,581
Percent	2.80	0.37	8.21	5.97	1.12	24.07	0.19	42.72
Sample Size	15	2	44	32	6	129	1	229
Mean Length	480	341	572	493	612	582	551	560
Std. Error	13	9	4	9	5	2		2
Sample Size	15	2	44	32	6	129	1	229
Females	11,198	400	31,194	17,196	1,600	61,187		122,775
Percent	5.22	0.19	14.55	8.02	0.75	28.54		57.28
Sample Size	28	1	78	43	4	153		307
Mean Length	473	330	553	500	598	555		539
Std. Error	5		3	5	19	2		2
Sample Size	28	1	78	43	4	153		307
Both Sexes	17,197	1,200	48,790	29,993	4,000	112,776	400	214,356
Percent	8.02	0.56	22.76	13.99	1.87	52.61	0.19	100.00
Sample Size	43	3	122	75	10	282	1	536
Mean Length	476	337	560	497	606	568	551	548
Std. Error	6	9	2	5	8	2		1
Sample Size	43	3	122	75	10	282	1	536
Sample Period 4: July 10 - July 13								
Males	1,480		13,316	9,765	2,071	35,806	592	63,030
Percent	1.16		10.42	7.64	1.62	28.01	0.46	49.31
Sample Size	5		45	33	7	121	2	213
Mean Length	477		584	528	612	583	619	573
Std. Error	28		3	7	4	3	8	2
Sample Size	5		45	33	7	121	2	213
Females	4,439		15,388	12,724	1,184	30,479	592	64,806
Percent	3.47		12.04	9.95	0.93	23.84	0.46	50.69
Sample Size	15		52	43	4	103	2	219
Mean Length	480		554	507	574	559	568	543
Std. Error	6		3	5	15	2	4	2
Sample Size	15		52	43	4	103	2	219
Both Sexes	5,919		28,704	22,489	3,255	66,285	1,184	127,836
Percent	4.63		22.45	17.59	2.55	51.85	0.93	100.00
Sample Size	20		97	76	11	224	4	432
Mean Length	479		568	516	598	572	593	558
Std. Error	8		2	4	6	2	4	1
Sample Size	20		97	76	11	224	4	432

- Continued -

Table 5. (p 3 of 3)

	Age Group							Total
	1.2	2.1	1.3	2.2	1.4	2.3	2.4	
Sample Period 5: July 14 - July 22								
Males	2,677	243	4,137	6,814	487	22,632	487	37,477
Percent	3.42	0.31	5.28	8.70	0.62	28.88	0.62	47.83
Sample Size	11	1	17	28	2	93	2	154
Mean Length	483	343	588	507	617	589	610	566
Std. Error	13		9	10	16	3	4	3
Sample Size	11	1	17	28	2	93	2	154
Females	2,920		4,380	10,708		22,875		40,883
Percent	3.73		5.59	13.67		29.19		52.17
Sample Size	12		18	44		94		168
Mean Length	470		539	496		559		534
Std. Error	7		6	4		2		2
Sample Size	12		18	44		94		168
Both Sexes	5,597	243	8,517	17,522	487	45,507	487	78,360
Percent	7.14	0.31	10.87	22.36	0.62	58.07	0.62	100.00
Sample Size	23	1	35	72	2	187	2	322
Mean Length	476	343	563	501	617	574	610	549
Std. Error	7		5	4	16	2	4	2
Sample Size	23	1	35	72	2	187	2	322
All Periods Combined:								
Males	54,605	1,711	134,588	112,625	19,486	422,131	6,033	751,179
Percent	3.56	0.11	8.76	7.33	1.27	27.49	0.39	48.92
Sample Size	75	4	205	181	29	675	9	1,178
Mean Length	463	333	578	488	608	586	599	561
Std. Error	5	9	3	4	7	2	4	1
Sample Size	74	4	198	177	28	662	8	1,151
Females	41,252	2,677	175,715	96,780	16,568	445,279	6,208	784,479
Percent	2.69	0.17	11.44	6.30	1.08	29.00	0.40	51.08
Sample Size	77	3	277	188	23	724	9	1,301
Mean Length	471	429	558	499	584	563	589	549
Std. Error	7	94	2	3	7	1	8	1
Sample Size	75	3	271	183	23	711	9	1,275
Both Sexes	95,857	4,388	310,303	209,405	36,054	867,410	12,241	1,535,658
Percent	6.24	0.29	20.21	13.64	2.35	56.48	0.80	100.00
Sample Size	152	7	482	369	52	1,399	18	2,479
Mean Length	467	392	567	493	597	574	594	555
Std. Error	4	69	2	2	5	1	4	1
Sample Size	149	7	469	360	51	1,373	17	2,426

Table 6. Age, sex, and size (length in mm and weight in kg) composition of sockeye salmon commercial catch, Egegik District, 1993.

	Age Group									Total
	0.3	1.2	1.3	2.2	1.4	2.3	3.2	2.4	3.3	
Sample Period 1: June 17 - June 21										
Males	1,820	32,753	156,486	1,820	291,135	1,820			7,278	493,112
Percent	0.21	3.83	18.30	0.21	34.04	0.21			0.85	57.66
Sample Size	1	18	86	1	160	1			4	271
Mean Length	549	583	533	601	589	545			620	571
Std. Error		6	3		2				3	2
Sample Size	1	18	86	1	160	1			4	271
Mean Weight		3.75	2.39		3.22				4.34	3.01
Std. Error		0.39	0.10		0.11					0.08
Sample Size		3	15		22				1	41
Females	1,820	29,114	92,800		229,268	1,820	3,639	3,639	3,639	362,100
Percent	0.21	3.40	10.85		26.81	0.21	0.43	0.43	0.43	42.34
Sample Size	1	16	51		126	1	2	2	2	199
Mean Length	518	562	526		570	508	595	593	593	558
Std. Error		5	3		2		8	6	6	2
Sample Size	1	16	51		126	1	2	2	2	199
Mean Weight		2.88	2.18		2.99	1.83				2.76
Std. Error		0.14	0.07		0.08					0.06
Sample Size		4	12		25	1				42
Both Sexes	3,640	61,867	249,286	1,820	520,403	3,640	3,639	10,917		855,212
Percent	0.43	7.23	29.15	0.21	60.85	0.43	0.43	1.28		100.00
Sample Size	2	34	137	1	286	2	2	6		470
Mean Length	534	573	530	601	581	527	595	611		566
Std. Error		4	2		1		8	3		1
Sample Size	2	34	137	1	286	2	2	6		470
Mean Weight		3.34	2.31		3.12	1.83		4.34		2.90
Std. Error		0.22	0.07		0.07					0.05
Sample Size		7	27		47	1		1		83
Sample Period 2: June 22 - June 24										
Males	17,991	41,978	305,839	5,997	467,753					839,558
Percent	1.07	2.50	18.21	0.36	27.86					50.00
Sample Size	3	7	51	1	78					140
Mean Length	533	586	538	586	583					566
Std. Error	15	11	4		3					2
Sample Size	3	7	51	1	78					140
Mean Weight	2.64	2.91	2.46		3.29					2.95
Std. Error			0.08		0.20					0.11
Sample Size	1	1	8		11					21
Females	5,997	65,965	263,861		491,740		5,997	5,997		839,557
Percent	0.36	3.93	15.71		29.29		0.36	0.36		50.00
Sample Size	1	11	44		82		1	1		140
Mean Length	506	573	525		565		597	560		553
Std. Error		6	3		2					2
Sample Size	1	11	44		82		1	1		140
Mean Weight		3.05	2.26		2.73		3.53			2.61
Std. Error		0.21	0.09		0.12					0.08
Sample Size		2	11		11		1			25
Both Sexes	23,988	107,943	569,700	5,997	959,493		5,997	5,997		1,679,115
Percent	1.43	6.43	33.93	0.36	57.14		0.36	0.36		100.00
Sample Size	4	18	95	1	160		1	1		280
Mean Length	526	578	532	586	574		597	560		559
Std. Error	15	6	2		2					1
Sample Size	4	18	95	1	160		1	1		280
Mean Weight	2.64	3.00	2.37		3.00		3.53			2.78
Std. Error		0.21	0.06		0.11					0.07
Sample Size	1	3	19		22		1			46

- Continued -

Table 6. (p 2 of 5)

	Age Group									Total
	0.3	1.2	1.3	2.2	1.4	2.3	3.2	2.4	3.3	
Sample Period 3: June 25 - June 27										
Males	6,032	96,511	675,578	12,064	796,218	12,064	12,064			1,610,531
Percent	0.18	2.94	20.59	0.37	24.26	0.37	0.37			49.08
Sample Size	1	16	112	2	132	2	2			267
Mean Length	542	574	541	594	580	534	574			563
Std. Error		8	2	15	2	59	17			2
Sample Size	1	16	112	2	132	2	2			267
Mean Weight		3.59	2.62		3.22	1.55				2.97
Std. Error		0.22	0.14		0.09					0.08
Sample Size		4	14		23	1				42
Females	24,128	78,415	536,844	18,096	1,001,303		12,064			1,670,850
Percent	0.74	2.39	16.36	0.55	30.51		0.37			50.92
Sample Size	4	13	89	3	166		2			277
Mean Length	516	557	535	572	568		544			556
Std. Error	24	11	2	16	2		20			1
Sample Size	4	13	89	3	166		2			277
Mean Weight		2.82	2.27		2.94					2.71
Std. Error		0.14	0.09		0.05					0.04
Sample Size		3	13		32					48
Both Sexes	30,160	174,926	1,212,422	30,160	1,797,521	12,064	24,128			3,281,381
Percent	0.92	5.33	36.95	0.92	54.78	0.37	0.74			100.00
Sample Size	5	29	201	5	298	2	4			544
Mean Length	521	566	538	580	573	534	559			559
Std. Error	24	7	2	11	1	59	13			1
Sample Size	5	29	201	5	298	2	4			544
Mean Weight		3.24	2.47		3.06	1.55				2.84
Std. Error		0.14	0.09		0.05					0.04
Sample Size		7	27		55	1				90
Sample Period 4: June 28 - June 29										
Males	41,660	50,918	536,954		606,388		4,629			1,240,549
Percent	1.70	2.08	21.93		24.76		0.19			50.66
Sample Size	9	11	116		131		1			268
Mean Length	524	594	537		588		562			564
Std. Error	10	7	3		2					2
Sample Size	9	11	116		131		1			268
Mean Weight	2.48	3.08	2.53		3.45					3.00
Std. Error	0.18	0.18	0.11		0.13					0.08
Sample Size	2	2	25		33					62
Females	37,031	101,836	462,891		606,389					1,208,147
Percent	1.51	4.16	18.90		24.76					49.34
Sample Size	8	22	100		131					261
Mean Length	511	571	522		567					548
Std. Error	5	5	2		2					1
Sample Size	8	22	100		131					261
Mean Weight	1.82	3.02	2.15		2.82					2.55
Std. Error	0.05	0.08	0.08		0.12					0.07
Sample Size	2	2	14		13					31
Both Sexes	78,691	152,754	999,845		1,212,777		4,629			2,448,696
Percent	3.21	6.24	40.83		49.53		0.19			100.00
Sample Size	17	33	216		262		1			529
Mean Length	518	578	530		577		562			556
Std. Error	6	4	2		2					1
Sample Size	17	33	216		262		1			529
Mean Weight	2.17	3.04	2.35		3.13					2.78
Std. Error	0.10	0.08	0.07		0.09					0.05
Sample Size	4	4	39		46					93

- Continued -

Table 6. (p 3 of 5)

	Age Group									Total
	0.3	1.2	1.3	2.2	1.4	2.3	3.2	2.4	3.3	
Sample Period 5: June 30 - July 3										
Males	121,563	109,407	1,397,977	24,313	1,288,571			12,156		2,953,987
Percent	1.95	1.75	22.42	0.39	20.66			0.19		47.37
Sample Size	10	9	115	2	106			1		243
Mean Length	517	577	539	594	573			613		555
Std. Error	9	6	3	13	3					2
Sample Size	10	9	115	2	106			1		243
Mean Weight	1.97	2.74	2.53	3.45	2.92					2.69
Std. Error	0.03		0.05		0.11					0.05
Sample Size	2	1	19	1	18					41
Females	36,469	206,658	1,446,603	12,156	1,543,853	24,313	12,156			3,282,208
Percent	0.58	3.31	23.20	0.19	24.76	0.39	0.19			52.63
Sample Size	3	17	119	1	127	2	1			270
Mean Length	528	579	525	554	563	522	586			546
Std. Error	19	7	2		2	8				2
Sample Size	3	17	119	1	127	2	1			270
Mean Weight		3.64	2.31	2.64	2.80		3.24			2.63
Std. Error		0.03	0.06		0.06					0.04
Sample Size		2	23	1	26		1			53
Both Sexes	158,032	316,065	2,844,580	36,469	2,832,424	24,313	24,312			6,236,195
Percent	2.53	5.07	45.61	0.58	45.42	0.39	0.39			100.00
Sample Size	13	26	234	3	233	2	2			513
Mean Length	520	578	532	580	567	522	600			550
Std. Error	8	5	2	13	2	8				1
Sample Size	13	26	234	3	233	2	2			513
Mean Weight	1.97	3.33	2.42	3.18	2.85		3.24			2.66
Std. Error	0.03	0.03	0.04		0.06					0.03
Sample Size	2	3	42	2	44		1			94
Sample Period 6: July 4 - July 6										
Males	49,131	73,697	595,718		663,273					1,381,819
Percent	1.51	2.26	18.30		20.38					42.45
Sample Size	8	12	97		108					225
Mean Length	526	577	532		585					559
Std. Error	12	10	2		3					2
Sample Size	8	12	97		108					225
Mean Weight	2.85	4.57	2.51		3.43					3.07
Std. Error			0.08		0.19					0.10
Sample Size	1	1	18		11					31
Females	6,141	79,838	135,111	908,932	730,829	6,141	6,141			1,873,133
Percent	0.19	2.45	4.15	27.92	22.45	0.19	0.19			57.55
Sample Size	1	13	22	148	119	1	1			305
Mean Length	556	504	557	523	562	532	553			540
Std. Error		6	7	2	2					1
Sample Size	1	12	22	148	119	1	1			304
Mean Weight		2.37	2.77	2.14	2.79					2.45
Std. Error		0.38	0.14	0.06	0.07					0.05
Sample Size		2	4	29	21					56
Both Sexes	6,141	128,969	208,808	1,504,650	1,394,102	6,141	6,141			3,254,952
Percent	0.19	3.96	6.42	46.23	42.83	0.19	0.19			100.00
Sample Size	1	21	34	245	227	1	1			530
Mean Length	556	512	564	526	573	532	553			548
Std. Error		6	6	2	2					1
Sample Size	1	20	34	245	227	1	1			529
Mean Weight		2.55	3.41	2.29	3.09					2.72
Std. Error		0.38	0.14	0.05	0.10					0.05
Sample Size		3	5	47	32					87

- Continued -

Table 6. (p 4 of 5)

	Age Group									Total
	0.3	1.2	1.3	2.2	1.4	2.3	3.2	2.4	3.3	
Sample Period 7: July 7 - July 8										
Males	3,129	21,903	403,636	9,387	265,962	3,129			6,258	713,404
Percent	0.18	1.29	23.84	0.55	15.71	0.18			0.37	42.14
Sample Size	1	7	129	3	85	1			2	228
Mean Length	444	580	540	625	591	540			626	561
Std. Error			5	2	9	3			13	2
Sample Size	1	7	128	3	84	1			2	226
Mean Weight			2.75	2.63		3.36				2.91
Std. Error			0.04	0.10		0.30				0.13
Sample Size			2	16		7				25
Females	6,258	34,419	556,955		366,089	9,387	6,258			979,366
Percent	0.37	2.03	32.90		21.63	0.55	0.37			57.86
Sample Size	2	11	178		117	3	2			313
Mean Length	471	572	521		562	534	588			538
Std. Error	20	7	2		2	22	10			1
Sample Size	2	11	178		117	3	2			313
Mean Weight			2.17		2.68					2.37
Std. Error			0.09		0.15					0.08
Sample Size			8		8					16
Both Sexes	9,387	56,322	960,591	9,387	632,051	12,516	6,258	6,258	6,258	1,692,770
Percent	0.55	3.33	56.75	0.55	37.34	0.74	0.37	0.37	0.37	100.00
Sample Size	3	18	307	3	202	4	2	2	2	541
Mean Length	462	575	529	625	574	536	588	626	626	548
Std. Error	20	5	1	9	2	22	10	13	13	1
Sample Size	3	18	306	3	201	4	2	2	2	539
Mean Weight		2.75	2.36		2.97					2.60
Std. Error		0.04	0.07		0.15					0.07
Sample Size		2	24		15					41
Sample Period 8: July 9 - July 11										
Males	11,341	9,073	313,002		165,574	11,341				510,331
Percent	0.92	0.74	25.41		13.44	0.92				41.44
Sample Size	5	4	138		73	5				225
Mean Length	506	540	535		580	514				549
Std. Error	16	19	2		3	11				2
Sample Size	5	3	138		73	5				224
Mean Weight	1.94	3.19	2.33		2.93	2.09				2.53
Std. Error	0.21		0.06		0.21					0.08
Sample Size	2	1	25		13	1				42
Females	13,609	27,218	462,700		195,060	20,413		2,268		721,268
Percent	1.10	2.21	37.57		15.84	1.66		0.18		58.56
Sample Size	6	12	204		86	9		1		318
Mean Length	494	561	514		556	519		605		527
Std. Error	9	6	1		3	4				1
Sample Size	6	12	204		86	9		1		318
Mean Weight	1.30	2.29	1.88		2.20	1.60				1.96
Std. Error			0.04		0.16					0.05
Sample Size	1	1	35		12	1				50
Both Sexes	24,950	36,291	775,702		360,634	31,754		2,268	2,268	1,231,599
Percent	2.03	2.95	62.98		29.28	2.58		0.18	0.18	100.00
Sample Size	11	16	342		159	14		1	1	543
Mean Length	499	556	523		567	517		605		536
Std. Error	9	7	1		2	5				1
Sample Size	11	15	342		159	14		1		542
Mean Weight	1.59	2.52	2.06		2.54	1.78				2.20
Std. Error	0.21		0.03		0.13					0.04
Sample Size	3	2	60		25	2				92

- Continued -

Table 6. (p 5 of 5)

	Age Group									Total
	0.3	1.2	1.3	2.2	1.4	2.3	3.2	2.4	3.3	
Sample Period 9: July 12 - August 27										
Males		3,674	18,370	153,081	1,225	186,146	3,674		1,225	367,395
Percent		0.40	1.99	16.62	0.13	20.21	0.40		0.13	39.89
Sample Size		3	15	125	1	152	3		1	300
Mean Length		526	588	532	595	585	532		572	562
Std. Error		4	7	2		2	14			2
Sample Size		3	15	125	1	152	3		1	300
Mean Weight		2.15	3.15	2.24	3.87	3.38				2.88
Std. Error			0.46	0.06		0.13				0.07
Sample Size		1	2	16	1	25				45
Females		6,123	15,920	360,048	1,225	155,531	12,247		2,449	553,543
Percent		0.66	1.73	39.10	0.13	16.89	1.33		0.27	60.11
Sample Size		5	13	294	1	127	10		2	452
Mean Length		472	560	516	567	557	512		540	528
Std. Error		12	7	1		3	6		30	1
Sample Size		5	13	293	1	127	10		2	451
Mean Weight		1.50	2.37	1.91		2.46	1.80		2.87	2.08
Std. Error			0.05	0.04		0.12	0.13			0.04
Sample Size		1	3	48		18	2		1	73
Both Sexes		9,797	34,290	513,129	2,450	341,677	15,921		3,674	920,938
Percent		1.06	3.72	55.72	0.27	37.10	1.73		0.40	100.00
Sample Size		8	28	419	2	279	13		3	752
Mean Length		492	575	521	581	572	516		550	542
Std. Error		8	5	1		2	5		30	1
Sample Size		8	28	418	2	279	13		3	751
Mean Weight		1.74	2.79	2.01	3.87	2.96	1.80		2.87	2.39
Std. Error			0.25	0.04		0.09	0.13			0.04
Sample Size		2	5	64	1	43	2		1	118
All Periods Combined:										
Males		256,341	454,610	4,538,271	54,806	4,731,020	32,028	28,849	14,761	10,110,686
Percent		1.19	2.10	21.01	0.25	21.90	0.15	0.13	0.07	46.81
Sample Size		41	99	969	10	1,025	12	4	7	2,167
Mean Length		521	579	537	598	581	528	589	618	560
Std. Error		6	3	1	8	1	27	17	6	1
Sample Size		41	98	968	10	1,024	12	4	7	2,164
Mean Weight		2.28	3.37	2.52	3.47	3.21	1.81		4.34	2.88
Std. Error		0.05	0.12	0.03		0.05				0.03
Sample Size		9	17	156	2	163	2		1	350
Females	6,141	211,273	694,656	5,091,634	31,477	5,320,062	74,321	46,255	14,353	11,490,172
Percent	0.03	0.98	3.22	23.57	0.15	24.63	0.34	0.21	0.07	53.19
Sample Size	1	43	137	1,227	5	1,081	26	9	6	2,535
Mean Length	556	508	568	523	565	564	522	573	572	545
Std. Error		5	3	1	16	1	5	11	12	1
Sample Size	1	42	137	1,226	5	1,081	26	9	6	2,533
Mean Weight		2.08	3.09	2.17	2.64	2.79	1.68	3.34	2.87	2.52
Std. Error		0.26	0.04	0.03		0.03	0.13			0.02
Sample Size		6	21	193	1	166	4	2	1	394
Both Sexes	6,141	467,614	1,149,266	9,629,905	86,283	10,051,082	106,349	75,104	29,114	21,600,858
Percent	0.03	2.16	5.32	44.58	0.40	46.53	0.49	0.35	0.13	100.00
Sample Size	1	84	236	2,196	15	2,106	38	13	13	4,702
Mean Length	556	515	573	530	586	572	523	579	595	552
Std. Error		4	2	1	8	1	8	10	6	0
Sample Size	1	83	235	2,194	15	2,105	38	13	13	4,697
Mean Weight		2.21	3.20	2.34	3.20	2.99	1.74	3.34	3.97	2.69
Std. Error		0.11	0.05	0.02		0.03	0.13			0.02
Sample Size		15	38	349	3	329	6	2	2	744

Table 7. Age, sex, and size (length in mm and weight in kg) composition of sockeye salmon escapement, Egegik River, 1993.

	Age Group									Total
	1.2	2.1	1.3	2.2	1.4	2.3	3.2	2.4	3.3	
Sample Period 1: June 19 - June 23										
Males	2,502	2,502	11,675	70,882	834	98,401			1,668	188,464
Percent	0.55	0.55	2.58	15.65	0.18	21.73			0.37	41.62
Sample Size	3	3	14	85	1	118			2	226
Mean Length	584	359	596	531	612	589			557	565
Std. Error	16	6	5	4		3			7	2
Sample Size	3	3	14	85	1	118			2	226
Females	1,668		16,678	52,536	1,668	189,298	1,668		834	264,350
Percent	0.37		3.68	11.60	0.37	41.80	0.37		0.18	58.38
Sample Size	2		20	63	2	227	2		1	317
Mean Length	563		569	523	611	567	516		590	559
Std. Error	27		4	3	6	1	1			1
Sample Size	2		20	63	2	227	2		1	317
Both Sexes	4,170	2,502	28,353	123,418	2,502	287,699	1,668		2,502	452,814
Percent	0.92	0.55	6.26	27.26	0.55	63.54	0.37		0.55	100.00
Sample Size	5	3	34	148	3	345	2		3	543
Mean Length	575	359	580	528	611	575	516		568	561
Std. Error	15	6	3	3	6	1	1		7	1
Sample Size	5	3	34	148	3	345	2		3	543
Sample Period 2: June 24 - June 28										
Males		11,021	9,861	56,266	2,900	106,153		580		186,781
Percent		3.21	2.87	16.39	0.84	30.91		0.17		54.39
Sample Size		19	17	97	5	183		1		322
Mean Length		364	591	523	610	588		615		556
Std. Error		11	7	4	14	2				2
Sample Size		19	17	97	5	183		1		322
Females	1,160	580	9,861	59,167	2,320	82,369	580	580		156,617
Percent	0.34	0.17	2.87	17.23	0.68	23.99	0.17	0.17		45.61
Sample Size	2	1	17	102	4	142	1	1		270
Mean Length	532	520	570	519	602	565	544	562		548
Std. Error	23		6	3	3	2				2
Sample Size	2	1	17	102	4	142	1	1		270
Both Sexes	1,160	11,601	19,722	115,433	5,220	188,522	580	1,160		343,398
Percent	0.34	3.38	5.74	33.61	1.52	54.90	0.17	0.34		100.00
Sample Size	2	20	34	199	9	325	1	2		592
Mean Length	532	372	580	521	606	578	544	589		552
Std. Error	23	11	5	2	8	2				1
Sample Size	2	20	34	199	9	325	1	2		592

- Continued -

Table 7. (p 2 of 3)

	Age Group									Total
	1.2	2.1	1.3	2.2	1.4	2.3	3.2	2.4	3.3	
Sample Period 3: June 29 - July 5										
Males	377	4,150	6,036	40,741	377	46,023	377	754		98,835
Percent	0.18	2.01	2.93	19.74	0.18	22.30	0.18	0.37		47.90
Sample Size	1	11	16	108	1	122	1	2		262
Mean Length	567	376	585	537	601	593	590	612		560
Std. Error		26	15	3		2		13		2
Sample Size	1	11	16	108	1	122	1	2		262
Females	754	377	2,641	58,472	754	43,004	1,132	377		107,511
Percent	0.37	0.18	1.28	28.34	0.37	20.84	0.55	0.18		52.10
Sample Size	2	1	7	155	2	114	3	1		285
Mean Length	492	398	552	511	584	562	507	581		532
Std. Error	22		10	2	4	3	24			2
Sample Size	2	1	7	155	2	114	3	1		285
Both Sexes	1,131	4,527	8,677	99,213	1,131	89,027	1,509	1,131		206,346
Percent	0.55	2.19	4.21	48.08	0.55	43.14	0.73	0.55		100.00
Sample Size	3	12	23	263	3	236	4	3		547
Mean Length	517	378	575	521	590	578	528	601		546
Std. Error	22	26	11	2	4	2	24	13		1
Sample Size	3	12	23	263	3	236	4	3		547
Sample Period 4: July 6 - July 8										
Males	1,106	4,056	4,793	31,707	737	54,197				96,596
Percent	0.52	1.90	2.25	14.88	0.35	25.43				45.33
Sample Size	3	11	13	86	2	147				262
Mean Length	516	367	588	539	593	599				568
Std. Error	48	10	10	4	27	2				2
Sample Size	3	11	13	86	2	147				262
Females	4,056		2,212	74,844		34,657	737			116,506
Percent	1.90		1.04	35.12		16.26	0.35			54.67
Sample Size	11		6	203		94	2			316
Mean Length	488		563	506		564	537			524
Std. Error	6		7	2		3	40			2
Sample Size	11		6	203		94	2			316
Both Sexes	5,162	4,056	7,005	106,551	737	88,854	737			213,102
Percent	2.42	1.90	3.29	50.00	0.35	41.70	0.35			100.00
Sample Size	14	11	19	289	2	241	2			578
Mean Length	494	367	580	516	593	586	537			544
Std. Error	11	10	7	2	27	2	40			1
Sample Size	14	11	19	289	2	241	2			578

- Continued -

Table 7. (p 3 of 3)

	Age Group									Total ^a
	1.2	2.1	1.3	2.2	1.4	2.3	3.2	2.4	3.3	
Sample Period 5: July 9 - July 22										
Males	802	10,432	6,018	46,943		68,611	802	802		134,410
Percent	0.27	3.46	2.00	15.58		22.77	0.27	0.27		44.61
Sample Size	2	26	15	117		171	2	2		335
Mean Length	426	359	604	526		595	517	640		552
Std. Error	74	4	5	4		2	27	10		2
Sample Size	2	26	15	117		171	2	2		335
Females	2,407	401	2,809	126,788	802	29,691	4,012			166,910
Percent	0.80	0.13	0.93	42.08	0.27	9.85	1.33			55.39
Sample Size	6	1	7	316	2	74	10			416
Mean Length	481	427	546	501	552	551	502			511
Std. Error	8		15	2	46	5	7			1
Sample Size	6	1	7	316	2	74	10			416
Both Sexes	3,209	10,833	8,827	173,731	802	98,302	4,814	802		301,320
Percent	1.06	3.60	2.93	57.66	0.27	32.62	1.60	0.27		100.00
Sample Size	8	27	22	433	2	245	12	2		751
Mean Length	467	361	586	508	552	582	505	640		529
Std. Error	19	4	6	1	46	2	8	10		1
Sample Size	8	27	22	433	2	245	12	2		751
All Periods Combined:										
Males	4,787	32,161	38,383	246,539	4,848	373,385	1,179	2,136	1,668	705,086
Percent	0.32	2.12	2.53	16.25	0.32	24.61	0.08	0.14	0.11	46.48
Sample Size	9	70	75	493	9	741	3	5	2	1,407
Mean Length	540	364	593	530	607	592	540	623	557	560
Std. Error	20	5	4	2	12	1	27	8	7	1
Sample Size	9	70	75	493	9	741	3	5	2	1,407
Females	10,045	1,358	34,201	371,807	5,544	379,019	8,129	957	834	811,894
Percent	0.66	0.09	2.25	24.51	0.37	24.99	0.54	0.06	0.05	53.52
Sample Size	23	3	57	839	10	651	18	2	1	1,604
Mean Length	504	459	566	510	595	565	512	569	590	538
Std. Error	6		3	1	7	1	7			1
Sample Size	23	3	57	839	10	651	18	2	1	1,604
Both Sexes	14,832	33,519	72,584	618,346	10,392	752,404	9,308	3,093	2,502	1,516,980
Percent	0.98	2.21	4.78	40.76	0.69	49.60	0.61	0.20	0.16	100.00
Sample Size	32	73	132	1,332	19	1,392	21	7	3	3,011
Mean Length	516	368	580	518	601	578	516	607	568	548
Std. Error	8	5	2	1	6	1	7	8	7	1
Sample Size	32	73	132	1,332	19	1,392	21	7	3	3,011

^a Total does not include Shosky Creek escapement (20).

Table 8. Age, sex, and size (length in mm and weight in kg) composition of sockeye salmon commercial catch, Ugashik District, 1993.

	Age Group								Total	
	0.3	1.2	2.1	1.3	2.2	1.4	2.3	3.2		2.4
Sample Period 1: June 8 - June 30										
Males	685	15,410		10,615	22,943	1,027	30,134			80,814
Percent	0.37	8.35		5.75	12.43	0.56	16.33			43.78
Sample Size	2	45		31	67	3	88			236
Mean Length	545	538		574	543	615	585			563
Std. Error	19	3		4	2	12	3			1
Sample Size	2	45		31	67	3	87			235
Females	342	7,191		19,519	23,286	342	53,078			103,758
Percent	0.19	3.90		10.58	12.62	0.19	28.76			56.22
Sample Size	1	21		57	68	1	155			303
Mean Length	518	518		567	528	603	572			557
Std. Error		5		3	3		2			1
Sample Size	1	21		57	68	1	155			303
Both Sexes	1,027	22,601		30,134	46,229	1,369	83,212			184,572
Percent	0.56	12.25		16.33	25.05	0.74	45.08			100.00
Sample Size	3	66		88	135	4	243			539
Mean Length	536	532		570	535	612	577			560
Std. Error	19	2		2	2	12	1			1
Sample Size	3	66		88	135	4	242			538
Sample Period 2: July 1 - July 6										
Males	1,499	88,449		62,964	182,895	2,998	164,905			503,710
Percent	0.16	9.25		6.58	19.12	0.31	17.24			52.66
Sample Size	1	59		42	122	2	110			336
Mean Length	578	534		588	542	627	578			559
Std. Error		4		5	2	18	3			2
Sample Size	1	57		42	122	2	110			334
Females	1,499	55,468		73,458	118,432	2,998	200,884			452,739
Percent	0.16	5.80		7.68	12.38	0.31	21			47.34
Sample Size	1	37		49	79	2	134			302
Mean Length	561	509		554	517	592	554			539
Std. Error		3		3	2	3	2			1
Sample Size	1	37		48	79	2	133			300
Both Sexes	2,998	143,917		136,422	301,327	5,996	365,789			956,449
Percent	0.31	15.05		14.26	31.50	0.63	38.24			100.00
Sample Size	2	96		91	201	4	244			638
Mean Length	570	524		570	532	610	565			550
Std. Error		2		3	2	9	2			1
Sample Size	2	94		90	201	4	243			634

- Continued -

Table 8. (p 2 of 4)

	Age Group									Total
	0.3	1.2	2.1	1.3	2.2	1.4	2.3	3.2	2.4	
Sample Period 3: July 7 - July 8										
Males	40,892			49,070	250,257		230,629		1,636	572,484
Percent	3.42			4.10	20.90		19.26		0.14	47.81
Sample Size	25			30	153		141		1	350
Mean Length	525			582	538		586		574	560
Std. Error	4			4	2		2			1
Sample Size	25			30	153		140		1	349
Mean Weight	1.95				2.66		3.32			2.90
Std. Error					0.13		0.18			0.10
Sample Size	1				10		7			18
Females	52,341			83,419	212,637	4,907	268,251		3,271	624,826
Percent	4.37			6.97	17.76	0.41	22.40		0.27	52.19
Sample Size	32			51	130	3	164		2	382
Mean Length	520			562	520	574	564		586	545
Std. Error	4			3	1	11	2		18	1
Sample Size	32			51	130	3	164		2	382
Mean Weight	1.89				2.16		3.05			2.58
Std. Error					0.11		0.10			0.07
Sample Size	1				8		8			17
Both Sexes	93,233			132,489	462,894	4,907	498,880		4,907	1,197,310
Percent	7.79			11.07	38.66	0.41	41.67		0.41	100.00
Sample Size	57			81	283	3	305		3	732
Mean Length	522			569	530	574	574		582	552
Std. Error	3			2	1	11	1		18	1
Sample Size	57			81	283	3	304		3	731
Mean Weight	1.92				2.43		3.17			2.74
Std. Error					0.09		0.1			0.06
Sample Size	2				18		15			35
Sample Period 4: July 9										
Males	6,278			11,771	113,783		74,548	3,139	1,569	211,088
Percent	1.47			2.75	26.61		17.43	0.73	0.37	49.36
Sample Size	8			15	145		95	4	2	269
Mean Length	530			595	540		582	519	578	558
Std. Error	7			8	2		3	7	19	2
Sample Size	8			15	145		95	4	2	269
Mean Weight	2.79				2.62		3.43	2.05		2.92
Std. Error					0.12		0.16			0.09
Sample Size	1				12		9	1		23
Females	785	9,417	785	5,493	109,074		87,888	3,139		216,581
Percent	0.18	2.20	0.18	1.28	25.50		20.55	0.73		50.64
Sample Size	1	12	1	7	139		112	4		276
Mean Length	547	516	338	571	520		563	536		538
Std. Error		5		8	2		2	13		1
Sample Size	1	12	1	7	139		112	4		276
Mean Weight		2.31		2.91	2.14		2.92			2.49
Std. Error				0.07	0.07		0.12			0.06
Sample Size		1		2	12		9			24
Both Sexes	785	15,695	785	17,264	222,857		162,436	6,278	1,569	427,669
Percent	0.18	3.67	0.18	4.04	52.11		37.98	1.47	0.37	100.00
Sample Size	1	20	1	22	284		207	8	2	545
Mean Length	547	522	338	587	531		572	528	578	548
Std. Error		4		6	1		2	8	19	1
Sample Size	1	20	1	22	284		207	8	2	545
Mean Weight		2.50		2.91	2.39		3.15	2.05		2.70
Std. Error				0.07	0.07		0.10			0.05
Sample Size		2		2	24		18	1		47

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Table 8. (p 3 of 4)

	Age Group								Total	
	0.3	1.2	2.1	1.3	2.2	1.4	2.3	3.2		2.4
Sample Period 5: July 10 - July 12										
Males	23,437		1,562	42,187	176,563		162,500		1,562	407,811
Percent	2.88		0.19	5.18	21.69		19.96		0.19	50.10
Sample Size	15		1	27	113		104		1	261
Mean Length	548		528	586	535		588		610	562
Std. Error	9			5	2		3			2
Sample Size	15		1	27	113		104		1	261
Mean Weight	2.76				2.73		3.79			3.21
Std. Error					0.07		0.19			0.09
Sample Size	1				12		9			22
Females	29,687			40,625	182,813	1,562	150,000	1,562		406,249
Percent	3.65			4.99	22.46	0.19	18.43	0.19		49.90
Sample Size	19			26	117	1	96	1		260
Mean Length	511			565	518	614	560	502		538
Std. Error	5			4	2		3			1
Sample Size	19			26	117	1	96	1		260
Mean Weight	1.99			2.99	2.04		3.13			2.54
Std. Error	0.25			0.1	0.09		0.2			0.09
Sample Size	2			4	9		7			22
Both Sexes	53,124		1,562	82,812	359,376	1,562	312,500	1,562	1,562	814,060
Percent	6.53		0.19	10.17	44.15	0.19	38.39	0.19	0.19	100.00
Sample Size	34		1	53	230	1	200	1	1	521
Mean Length	527		528	576	526	614	575	502	610	550
Std. Error	5			3	1		2			1
Sample Size	34		1	53	230	1	200	1	1	521
Mean Weight	2.33			2.99	2.38		3.47			2.85
Std. Error	0.25			0.10	0.06		0.14			0.06
Sample Size	3			4	21		16			44
Sample Period 6: July 13 - August 17										
Males	8,544			19,529	79,335	3,662	134,256	1,221	2,441	248,988
Percent	1.43			3.27	13.29	0.61	22.49	0.20	0.41	41.72
Sample Size	7			16	65	3	110	1	2	204
Mean Length	526			571	535	622	587	519	608	567
Std. Error	12			7	3	10	3		6	2
Sample Size	7			16	65	3	110	1	2	204
Females	26,852			28,072	137,920	2,441	152,567			347,852
Percent	4.50			4.70	23.11	0.41	25.56			58.28
Sample Size	22			23	113	2	125			285
Mean Length	526			553	519	578	559			540
Std. Error	9			4	2	18	2			2
Sample Size	22			23	113	2	125			285
Both Sexes	35,396			47,601	217,255	6,103	286,823	1,221	2,441	596,840
Percent	5.93			7.98	36.40	1.02	48.06	0.20	0.41	100.00
Sample Size	29			39	178	5	235	1	2	489
Mean Length	526			561	525	604	572	519	608	551
Std. Error	7			4	2	9	2		6	1
Sample Size	29			39	178	5	235	1	2	489

- Continued -

Table 8. (p 4 of 4)

	Age Group									Total
	0.3	1.2	2.1	1.3	2.2	1.4	2.3	3.2	2.4	
All Periods Combined:										
Males	2,184	183,010	1,562	196,136	825,776	7,687	796,972	4,360	7,208	2,024,895
Percent	0.05	4.38	0.04	4.70	19.77	0.18	19.08	0.10	0.17	48.48
Sample Size	3	159	1	161	665	8	648	5	6	1,656
Mean Length	568	533	528	584	539	623	584	519	594	561
Std. Error	19	2		2	1	9	1	7	8	1
Sample Size	3	157	1	161	665	8	646	5	6	1,652
Mean Weight		2.29			2.67		3.50	2.05		3.00
Std. Error					0.07		0.11			0.06
Sample Size		3			34		25	1		63
Females	2,626	180,956	785	250,586	784,162	12,250	912,668	4,701	3,271	2,152,005
Percent	0.06	4.33	0.02	6.00	18.77	0.29	21.85	0.11	0.08	51.52
Sample Size	3	143	1	213	646	9	786	5	2	1,808
Mean Length	551	516	338	560	519	585	561	525	586	542
Std. Error		2		2	1	7	1	13	18	1
Sample Size	3	143	1	212	646	9	785	5	2	1,806
Mean Weight		1.97		2.98	2.11		3.05			2.55
Std. Error		0.25		0.09	0.06		0.08			0.04
Sample Size		4		6	29		24			63
Both Sexes	4,810	363,966	2,347	446,722	1,609,938	19,937	1,709,640	9,061	10,479	4,176,900
Percent	0.12	8.71	0.06	10.70	38.54	0.48	40.93	0.22	0.25	100.00
Sample Size	6	302	2	374	1,311	17	1,434	10	8	3,464
Mean Length	559	525	464	570	529	600	572	522	591	551
Std. Error	19	2		1	1	5	1	8	9	0
Sample Size	6	300	2	373	1,311	17	1,431	10	8	3,458
Mean Weight		2.11		2.98	2.40		3.27	2.05		2.77
Std. Error		0.25		0.09	0.05		0.07			0.04
Sample Size		7		6	63		49	1		126

Table 9. Age, sex, and size (length in mm and weight in kg) composition of sockeye salmon escapement, Ugashik River, 1993.

	Age Group										Total
	0.2	1.1	0.3	1.2	2.1	1.3	2.2	1.4	2.3	2.4	
Sample Period 1: June 28 - July 8											
Males			13,118	386	11,575	20,449	386	37,812			83,726
Percent			8.81	0.26	7.77	13.73	0.26	25.39			56.22
Sample Size			34	1	30	53	1	98			217
Mean Length			532	531	595	542	628	588			569
Std. Error			3		3	3		3			2
Sample Size			33	1	30	53	1	98			216
Females			5,016		7,717	17,748	772	33,567	386		65,206
Percent			3.37		5.18	11.92	0.52	22.54	0.26		43.78
Sample Size			13		20	46	2	87	1		169
Mean Length			505		569	519	576	570	562		551
Std. Error			7		5	3	14	2			2
Sample Size			13		20	46	2	87	1		169
Both Sexes			18,134	386	19,292	38,197	1,158	71,379	386		148,932
Percent			12.18	0.26	12.95	25.65	0.78	47.93	0.26		100.00
Sample Size			47	1	50	99	3	185	1		386
Mean Length			525	531	584	531	593	579	562		561
Std. Error			3		3	2	14	2			1
Sample Size			46	1	50	99	3	185	1		385
Sample Period 2: July 9 - July 10											
Males			40,791	2,813	59,076	94,240	1,407	147,690			346,017
Percent			4.99	0.34	7.23	11.53	0.17	18.07			42.34
Sample Size			29	2	42	67	1	105			246
Mean Length			542	385	588	548	586	597			574
Std. Error			4	10	5	3		3			2
Sample Size			29	2	42	67	1	105			246
Females			59,076		60,483	157,536		191,293	2,813		471,201
Percent			7.23		7.40	19.28		23.41	0.34		57.66
Sample Size			42		43	112		136	2		335
Mean Length			510		571	520		567	601		545
Std. Error			3		3	2		2	22		1
Sample Size			42		42	112		136	2		334
Both Sexes			99,867	2,813	119,559	251,776	1,407	338,983	2,813		817,218
Percent			12.22	0.34	14.63	30.81	0.17	41.48	0.34		100.00
Sample Size			71	2	85	179	1	241	2		581
Mean Length			523	385	580	531	586	580	601		557
Std. Error			3	10	3	2		2	22		1
Sample Size			71	2	84	179	1	241	2		580

- Continued -

Table 9. (p 2 of 3)

	Age Group										Total
	0.2	1.1	0.3	1.2	2.1	1.3	2.2	1.4	2.3	2.4	
Sample Period 3: July 11 - July 14											
Males				56,088	7,396	31,434	36,365		49,308		180,591
Percent				17.47	2.30	9.79	11.32		15.36		56.24
Sample Size				91	12	51	59		80		293
Mean Length				528	382	596	552		601		559
Std. Error				4	11	3	4		3		2
Sample Size				91	12	51	59		80		293
Females			55,473			24,038	30,201	616	30,201		140,529
Percent			17.27			7.49	9.40	0.19	9.40		43.76
Sample Size			90			39	49	1	49		228
Mean Length			508			566	515	570	571		533
Std. Error			3			3	3		3		2
Sample Size			90			39	49	1	49		228
Both Sexes			111,561	7,396	55,472	66,566	616	79,509			321,120
Percent			34.74	2.30	17.27	20.73	0.19	24.76			100.00
Sample Size			181	12	90	108	1	129			521
Mean Length			518	382	583	535	570	590			548
Std. Error			2	11	2	3		2			1
Sample Size			181	12	90	108	1	129			521
Sample Period 4: July 15 - July 27											
Males	185	1,112	556	25,751	741	8,337	4,261	185	8,522		49,650
Percent	0.18	1.09	0.54	25.18	0.72	8.15	4.17	0.18	8.33		48.55
Sample Size	1	6	3	139	4	45	23	1	46		268
Mean Length	409	331	573	511	389	586	528	618	592		534
Std. Error		6	5	5	6	6	9		5		3
Sample Size	1	6	3	139	4	45	23	1	46		268
Females			926	28,716	185	9,078	9,634		3,890	185	52,614
Percent			0.91	28.08	0.18	8.88	9.42		3.80	0.18	51.45
Sample Size			5	155	1	49	52		21	1	284
Mean Length			543	496	530	553	496		558	475	511
Std. Error			8	4		5	10		10		3
Sample Size			5	155	1	49	52		21	1	284
Both Sexes	185	1,112	1,482	54,467	926	17,415	13,895	185	12,412	185	102,264
Percent	0.18	1.09	1.45	53.26	0.91	17.03	13.59	0.18	12.14	0.18	100.00
Sample Size	1	6	8	294	5	94	75	1	67	1	552
Mean Length	409	331	555	503	417	569	506	618	581	475	522
Std. Error		6	5	3	6	4	7		5		2
Sample Size	1	6	8	294	5	94	75	1	67	1	552

- Continued -

Table 9. (p 3 of 3)

	Age Group										Total ^a
	0.2	1.1	0.3	1.2	2.1	1.3	2.2	1.4	2.3	2.4	
All Periods Combined:											
Males	185	1,112	556	135,748	11,336	110,422	155,315	1,978	243,332		659,984
Percent	0.01	0.08	0.04	9.77	0.82	7.95	11.18	0.14	17.51		47.50
Sample Size	1	6	3	293	19	168	202	3	329		1,024
Mean Length	409	331	573	529	388	591	548	597	596		566
Std. Error		6	5	2	8	3	2		2		1
Sample Size	1	6	3	292	19	168	202	3	329		1,023
Females			926	148,281	185	101,316	215,119	1,388	258,951	3,384	729,550
Percent			0.07	10.67	0.01	7.29	15.48	0.10	18.64	0.24	52.50
Sample Size			5	300	1	151	259	3	293	4	1,016
Mean Length			543	506	530	568	518	573	568	590	541
Std. Error			8	2		2	2	14	2	22	1
Sample Size			5	300	1	150	259	3	293	4	1,015
Both Sexes	185	1,112	1,482	284,029	11,521	211,738	370,434	3,366	502,283	3,384	1,389,534
Percent	0.01	0.08	0.11	20.44	0.83	15.24	26.66	0.24	36.15	0.24	100.00
Sample Size	1	6	8	593	20	319	461	6	622	4	2,040
Mean Length	409	331	555	517	391	580	531	587	582	590	553
Std. Error		6	5	1	8	2	1	14	1	22	1
Sample Size	1	6	8	592	20	318	461	6	622	4	2,038

^a Total does not include escapement to King Salmon (22,570) and Dog Salmon (1,350) Rivers.

Table 10. Age, sex, and size (length in mm and weight in kg) composition of sockeye salmon commercial catch, Nushagak District, 1993.

	Age Group								Total
	0.2	0.3	1.2	0.4	1.3	2.2	1.4	2.3	
Sample Period 1: June 8 - June 24									
Males	1,699	11,044	24,637	850	57,770	850	2,549	3,398	102,797
Percent	0.72	4.66	10.39	0.36	24.37	0.36	1.08	1.43	43.37
Sample Size	2	13	29	1	68	1	3	4	121
Mean Length	438	559	510	565	566	505	599	560	550
Std. Error	6	9	6		4		8	8	3
Sample Size	2	13	29	1	68	1	3	4	121
Mean Weight		2.99	1.97	2.87	3.19		3.44	3.13	2.87
Std. Error			0.10		0.13			0.45	0.08
Sample Size		1	8	1	19		1	2	32
Females		8,496	8,496	2,549	106,193	2,549	2,549	3,398	134,230
Percent		3.58	3.58	1.08	44.80	1.08	1.08	1.43	56.63
Sample Size		10	10	3	125	3	3	4	158
Mean Length		552	513	577	550	525	569	554	548
Std. Error		5	8	5	2	8	12	3	1
Sample Size		10	10	3	125	3	3	4	158
Mean Weight			1.95	2.88	2.71		3.31	2.66	2.67
Std. Error			0.18		0.04				0.04
Sample Size			2	1	32		1	1	37
Both Sexes	1,699	19,540	33,133	3,399	163,963	3,399	5,098	6,796	237,027
Percent	0.72	8.24	13.98	1.43	69.17	1.43	2.15	2.87	100.00
Sample Size	2	23	39	4	193	4	6	8	279
Mean Length	438	556	511	574	555	520	584	557	549
Std. Error	6	6	5	5	2	8	7	4	1
Sample Size	2	23	39	4	193	4	6	8	279
Mean Weight		2.99	1.96	2.88	2.88		3.38	2.90	2.76
Std. Error			0.08		0.05			0.45	0.04
Sample Size		1	10	2	51		2	3	69
Sample Period 2: June 25 - June 27									
Males		3,474	68,090	695	98,659	1,390	1,390	6,253	179,951
Percent		0.94	18.39	0.19	26.64	0.38	0.38	1.69	48.59
Sample Size		5	98	1	142	2	2	9	259
Mean Length		535	518	602	566	515	586	573	547
Std. Error		30	3		2	8	1	6	2
Sample Size		5	98	1	142	2	2	9	259
Mean Weight			2.23		3.21	2.22	3.62	2.85	2.81
Std. Error			0.08		0.12				0.07
Sample Size			22		31	1	1	1	56
Females		5,558	27,792	1,390	146,600	1,390	4,169	3,474	190,373
Percent		1.50	7.50	0.38	39.59	0.38	1.13	0.94	51.41
Sample Size		8	40	2	211	2	6	5	274
Mean Length		546	497	573	548	522	557	530	540
Std. Error		4	2	1	1	1	9	7	1
Sample Size		8	40	2	211	2	6	5	274
Mean Weight		2.82	1.94		2.74		3.05		2.63
Std. Error		0.37	0.07		0.04				0.04
Sample Size		2	9		56		1		68
Both Sexes		9,032	95,882	2,085	245,259	2,780	5,559	9,727	370,324
Percent		2.44	25.89	0.56	66.23	0.75	1.50	2.63	100.00
Sample Size		13	138	3	353	4	8	14	533
Mean Length		541	512	583	555	518	564	557	543
Std. Error		12	2	1	1	4	7	5	1
Sample Size		13	138	3	353	4	8	14	533
Mean Weight		2.82	2.15		2.93	2.22	3.19	2.85	2.72
Std. Error		0.37	0.06		0.05				0.04
Sample Size		2	31		87	1	2	1	124

- Continued -

Table 10. (p 2 of 4)

	Age Group							Total
	0.2	0.3	1.2	0.4	1.3	2.2	1.4	
Sample Period 3: June 28 - June 30								
Males	12,493	123,547	5,553	154,086	13,882	4,164	13,882	327,607
Percent	1.68	16.64	0.75	20.75	1.87	0.56	1.87	44.11
Sample Size	9	89	4	111	10	3	10	236
Mean Length	558	521	614	570	527	613	568	550
Std. Error	9	2	5	3	4	16	6	2
Sample Size	9	89	4	111	9	3	10	235
Mean Weight	2.97	2.39		3.24	2.35	4.83	2.88	2.87
Std. Error	0.30	0.06		0.14	0.11		0.11	0.07
Sample Size	2	24		30	4	1	2	63
Females	34,704	94,395	12,493	240,153	13,882	6,941	12,493	415,061
Percent	4.67	12.71	1.68	32.34	1.87	0.93	1.68	55.89
Sample Size	25	68	9	173	10	5	9	299
Mean Length	544	504	576	550	515	566	559	539
Std. Error	3	2	8	1	6	8	5	1
Sample Size	25	68	9	173	10	5	9	299
Mean Weight	2.82	1.92	3.21	2.80	2.14	2.91	2.99	2.60
Std. Error	0.19	0.06		0.05	0.12	0.16	0.19	0.04
Sample Size	5	16	1	43	2	2	4	73
Both Sexes	47,197	217,942	18,046	394,239	27,764	11,105	26,375	742,668
Percent	6.36	29.35	2.43	53.08	3.74	1.50	3.55	100.00
Sample Size	34	157	13	284	20	8	19	535
Mean Length	548	513	588	558	521	584	564	544
Std. Error	3	2	6	1	4	8	4	1
Sample Size	34	157	13	284	19	8	19	534
Mean Weight	2.86	2.19	3.21	2.97	2.25	3.63	2.93	2.72
Std. Error	0.16	0.04		0.06	0.08	0.16	0.11	0.04
Sample Size	7	40	1	73	6	3	6	136
Sample Period 4: July 1 - July 3								
Males	5,238	20,951	311,651	7,857	293,319	7,857	7,857	654,730
Percent	0.39	1.55	23.02	0.58	21.66	0.58	0.58	48.36
Sample Size	2	8	119	3	112	3	3	250
Mean Length	426	569	514	592	576	542	592	545
Std. Error	29	10	2	10	2	6	7	1
Sample Size	2	8	119	3	112	3	3	250
Mean Weight		3.26	2.27	3.45	3.45		3.38	2.87
Std. Error		0.36	0.06		0.09			0.05
Sample Size		3	26	1	32		1	63
Females	2,619	91,662	170,230	13,095	377,123	23,570	10,476	699,251
Percent	0.19	6.77	12.57	0.97	27.85	1.74	0.77	51.64
Sample Size	1	35	65	5	144	9	4	267
Mean Length	585	551	505	584	550	530	573	540
Std. Error		3	4	8	2	9	3	9
Sample Size	1	35	65	5	144	9	4	267
Mean Weight		2.95	1.96	3.49	2.72	2.49	3.09	2.58
Std. Error		0.07	0.06	0.29	0.05	0.37		0.21
Sample Size		6	12	3	40	2	1	66
Both Sexes	7,857	112,613	481,881	20,952	670,442	31,427	18,333	1,353,981
Percent	0.58	8.32	35.59	1.55	49.52	2.32	1.35	100.00
Sample Size	3	43	184	8	256	12	7	517
Mean Length	479	554	511	587	561	533	581	543
Std. Error	29	3	2	6	1	7	3	9
Sample Size	3	43	184	8	256	12	7	517
Mean Weight		3.01	2.16	3.47	3.04	2.49	3.21	2.90
Std. Error		0.09	0.05	0.29	0.05	0.37		0.21
Sample Size		9	38	4	72	2	2	129

- Continued -

Table 10. (p 3 of 4)

	Age Group							Total
	0.2	0.3	1.2	0.4	1.3	2.2	1.4	
Sample Period 5: July 4 - July 7								
Males	26,222	213,815	4,034	171,455	4,034	6,051	6,051	431,662
Percent	2.45	19.96	0.38	16.01	0.38	0.56	0.56	40.30
Sample Size	13	106	2	85	2	3	3	214
Mean Length	577	518	638	583	560	600	592	551
Std. Error	8	2	34	2	8	22	16	2
Sample Size	13	106	2	85	2	3	3	214
Mean Weight	3.67	2.51		3.52	2.59	2.80	3.96	3.01
Std. Error	0.46	0.08		0.07			0.52	0.06
Sample Size	3	26		24	1	1	2	57
Females	76,650	221,882	14,120	290,464	16,137	10,086	10,086	639,425
Percent	7.16	20.72	1.32	27.12	1.51	0.94	0.94	59.70
Sample Size	38	110	7	144	8	5	5	317
Mean Length	542	499	569	550	511	572	541	531
Std. Error	3	2	7	2	10	6	8	1
Sample Size	38	110	7	144	8	5	5	317
Mean Weight	2.79	2.01	2.91	2.76	1.62	3.14	2.83	2.48
Std. Error	0.04	0.06		0.06			0.31	0.03
Sample Size	10	26	1	36	1	1	2	77
Both Sexes	102,872	435,697	18,154	461,919	20,171	16,137	16,137	1,071,087
Percent	9.60	40.68	1.69	43.13	1.88	1.51	1.51	100.00
Sample Size	51	216	9	229	10	8	8	531
Mean Length	551	508	585	562	520	583	560	539
Std. Error	3	2	9	1	8	9	8	1
Sample Size	51	216	9	229	10	8	8	531
Mean Weight	3.01	2.26	2.91	3.04	1.81	3.01	3.25	2.70
Std. Error	0.12	0.05		0.04			0.27	0.03
Sample Size	13	52	1	60	2	2	4	134
Sample Period 6: July 8 - July 10								
Males	1,385	12,463	159,253	4,154	131,556	4,154	4,154	319,889
Percent	0.20	1.78	22.68	0.59	18.74	0.59	0.59	45.56
Sample Size	1	9	115	3	95	3	3	231
Mean Length	511	580	519	620	580	508	609	549
Std. Error		10	2	8	2	10	12	1
Sample Size	1	9	115	3	95	3	3	231
Mean Weight		4.10	2.48	3.83	3.52	2.48	4.04	3.02
Std. Error		0.11	0.07		0.12		0.59	0.06
Sample Size		3	21	1	28	1	2	57
Females	1,385	33,235	167,560	8,309	157,867	8,309	1,385	382,204
Percent	0.20	4.73	23.87	1.18	22.49	1.18	0.20	54.44
Sample Size	1	24	121	6	114	6	1	276
Mean Length	433	538	499	590	545	522	563	525
Std. Error		4	2	9	2	13		19
Sample Size	1	24	121	6	114	6	1	276
Mean Weight		2.45	1.96	3.52	2.73	1.96		3.59
Std. Error		0.17	0.04		0.06	0.11		0.03
Sample Size		5	34	1	27	2		70
Both Sexes	2,770	45,698	326,813	12,463	289,423	12,463	5,539	702,093
Percent	0.39	6.51	46.55	1.78	41.22	1.78	0.79	100.00
Sample Size	2	33	236	9	209	9	4	507
Mean Length	472	549	509	600	561	517	597	536
Std. Error		4	1	7	1	9	12	1
Sample Size	2	33	236	9	209	9	4	507
Mean Weight		2.90	2.21	3.62	3.09	2.13	4.04	3.55
Std. Error		0.13	0.04		0.06	0.11	0.59	0.03
Sample Size		8	55	2	55	3	2	127

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Table 10. (p 4 of 4)

	Age Group								Total *
	0.2	0.3	1.2	0.4	1.3	2.2	1.4	2.3	
Sample Period 7: July 11 - July 28									
Males	4,324	9,513	70,912	1,730	64,859	2,594	865	6,054	160,851
Percent	0.96	2.11	15.74	0.38	14.4	0.58	0.19	1.34	35.70
Sample Size	5	11	82	2	75	3	1	7	186
Mean Length	418	562	514	617	571	524	545	579	541
Std. Error	5	12	3	2	4	8		13	2
Sample Size	5	11	82	2	75	3	1	7	186
Mean Weight		3.30	2.36	4.00	3.30				2.85
Std. Error		0.45	0.12		0.15				0.09
Sample Size		4	12	1	22				39
Females	2,594	26,808	185,930	8,648	60,535	4,324	865		289,704
Percent	0.58	5.95	41.27	1.92	13.44	0.96	0.19		64.30
Sample Size	3	31	215	10	70	5	1		335
Mean Length	440	538	489	571	537	502	537		506
Std. Error	27	4	2	5	3	9			2
Sample Size	3	31	215	10	70	5	1		335
Mean Weight	1.81	2.84	1.87	3.28	2.45	1.84			2.12
Std. Error		0.19	0.04		0.09				0.04
Sample Size	1	7	60	1	17	1			87
Both Sexes	6,918	36,321	256,842	10,378	125,394	6,918	1,730	6,054	450,555
Percent	1.54	8.06	57.01	2.30	27.83	1.54	0.38	1.34	100.00
Sample Size	8	42	297	12	145	8	2	7	521
Mean Length	426	544	496	578	555	511	541	579	518
Std. Error	11	4	2	4	2	6		13	1
Sample Size	8	42	297	12	145	8	2	7	521
Mean Weight	1.81	2.96	2.01	3.40	2.89	1.84			2.37
Std. Error		0.18	0.04		0.09				0.04
Sample Size	1	11	72	2	39	1			126
All Periods Combined:									
Males	12,646	96,160	971,905	24,873	971,704	34,761	27,030	38,408	2,177,487
Percent	0.26	1.95	19.72	0.50	19.72	0.71	0.55	0.78	44.19
Sample Size	10	68	638	16	688	24	18	35	1,497
Mean Length	434	568	517	610	575	531	599	575	548
Std. Error	14	4	1	7	1	3	6	4	1
Sample Size	10	68	638	16	688	23	18	35	1,496
Mean Weight		3.42	2.37	3.59	3.39	2.41	3.60	3.15	2.91
Std. Error		0.19	0.03		0.04	0.11	0.59	0.16	0.03
Sample Size		16	139	4	186	7	7	8	367
Females	6,598	277,113	876,285	60,604	1,378,935	70,161	36,471	44,081	2,750,248
Percent	0.13	5.62	17.78	1.23	27.98	1.42	0.74	0.89	55.81
Sample Size	5	171	629	42	981	43	25	30	1,926
Mean Length	496	545	499	577	549	520	568	558	532
Std. Error	27	1	1	3	1	4	3	4	1
Sample Size	5	171	629	42	981	43	25	30	1,926
Mean Weight	1.81	2.81	1.95	3.24	2.73	2.10	3.08	2.96	2.49
Std. Error		0.05	0.02	0.29	0.02	0.19	0.16	0.14	0.02
Sample Size	1	35	159	8	251	8	6	10	478
Both Sexes	19,244	373,273	1,848,190	85,477	2,350,639	104,922	63,501	82,489	4,927,735
Percent	0.39	7.57	37.51	1.73	47.70	2.13	1.29	1.67	100.00
Sample Size	15	239	1,267	58	1,669	67	43	65	3,423
Mean Length	455	551	508	587	559	523	581	566	539
Std. Error	12	2	1	3	1	3	3	3	0
Sample Size	15	239	1,267	58	1,669	66	43	65	3,422
Mean Weight	1.81	2.97	2.17	3.31	3.00	2.18	3.31	3.05	2.68
Std. Error		0.06	0.02	0.29	0.02	0.15	0.24	0.10	0.01
Sample Size	1	51	298	12	437	15	13	18	845

* Nushagak District catch does not include Igushik Beach setnet catch (308,822) which was sampled separately.

Table 11. Age, sex, and size (length in mm and weight in kg) composition of sockeye salmon commercial catch, Igushik Beach setnet fishery, 1993.

	Age Group								Total
	0.2	0.3	1.2	0.4	1.3	2.2	1.4	2.3	
Sample period: June 8 - July 27									
Males	580	2,902	37,152	580	100,427	6,966	580	6,385	155,572
Percent	0.19	0.94	12.03	0.19	32.52	2.26	0.19	2.07	50.38
Sample Size	1	5	64	1	173	12	1	11	268
Mean Length	558	589	529	640	589	529	650	583	572
Std. Error		9	3		2	7		8	1
Sample Size	1	5	64	1	173	12	1	11	268
Mean Weight		4.20	2.63		3.63	2.55		3.37	3.34
Std. Error		0.54	0.07		0.11	0.09		0.26	0.08
Sample Size		2	15		42	3		6	68
Females		4,063	37,732	580	98,685	4,644	1,161	6,385	153,250
Percent		1.32	12.22	0.19	31.96	1.50	0.38	2.07	49.62
Sample Size		7	65	1	170	8	2	11	264
Mean Length		549	502	586	555	510	593	548	540
Std. Error		9	2		1	5	7	10	1
Sample Size		7	65	1	170	8	2	11	264
Mean Weight		2.49	1.89		2.81	1.61		2.70	2.53
Std. Error			0.07		0.05			0.47	0.04
Sample Size		1	10		44	1		2	58
Both Sexes	580	6,965	74,884	1,160	199,112	11,610	1,741	12,770	308,822
Percent	0.19	2.26	24.25	0.38	64.47	3.76	0.56	4.14	100.00
Sample Size	1	12	129	2	343	20	3	22	532
Mean Length	558	565	515	613	572	521	612	566	556
Std. Error		6	2		1	4	7	6	1
Sample Size	1	12	129	2	343	20	3	22	532
Mean Weight		3.20	2.26		3.22	2.17		3.04	2.94
Std. Error		0.54	0.05		0.06	0.09		0.27	0.05
Sample Size		3	25		86	4		8	126

Table 12. Age, sex, and size (length in mm and weight in kg) composition of sockeye salmon escapement, Wood River, 1993.

	Age Group									Total
	0.2	1.1	0.3	1.2	0.4	1.3	2.2	1.4	2.3	
Sample Period 1: June 20 - June 30										
Males				83,507		102,314	5,266		6,019	197,106
Percent				18.29		22.41	1.15		1.32	43.16
Sample Size				111		136	7		8	262
Mean Length				514		560	516		573	540
Std. Error				4		3	12		14	2
Sample Size				111		136	7		8	262
Females	752		116,609		130,150	1,505		10,532		259,548
Percent	0.16		25.54		28.50	0.33		2.31		56.84
Sample Size	1		155		173	2		14		345
Mean Length	435		491		535	541		538		515
Std. Error			3		3	49		9		2
Sample Size	1		155		173	2		14		345
Both Sexes	752		200,116		232,464	6,771		16,551		456,654
Percent	0.16		43.82		50.91	1.48		3.62		100.00
Sample Size	1		266		309	9		22		607
Mean Length	435		501		546	521		551		526
Std. Error			2		2	14		8		1
Sample Size	1		266		309	9		22		607
Sample Period 2: July 1 - July 3										
Males			81,201		60,247		1,310	4,584		147,342
Percent			26.38		19.57		0.43	1.49		47.87
Sample Size			124		92		2	7		225
Mean Length			506		565		541	586		533
Std. Error			3		3		1	12		2
Sample Size			124		92		2	7		225
Females			110,016		47,804	655	655	1,310		160,440
Percent			35.74		15.53	0.21	0.21	0.43		52.13
Sample Size			168		73	1	1	2		245
Mean Length			486		536	537	545	499		502
Std. Error			2		3			14		1
Sample Size			168		73	1	1	2		245
Both Sexes			191,217		108,051	655	1,965	5,894		307,782
Percent			62.13		35.11	0.21	0.64	1.91		100.00
Sample Size			292		165	1	3	9		470
Mean Length			494		552	537	542	566		516
Std. Error			2		2		1	10		1
Sample Size			292		165	1	3	9		470

- Continued -

Table 12. (p 2 of 3)

	Age Group									Total
	0.2	1.1	0.3	1.2	0.4	1.3	2.2	1.4	2.3	
Sample Period 3: July 4 - July 5										
Males	288		1,439	36,258	863	29,639	863		288	69,638
Percent	0.17		0.87	21.88	0.52	17.88	0.52		0.17	42.01
Sample Size	1		5	126	3	103	3		1	242
Mean Length	412		603	512	617	580	521		528	544
Std. Error			7	3	5	2	8			2
Sample Size	1		5	125	3	103	3		1	241
Females				65,321		29,064	1,439	288		96,112
Percent				39.41		17.53	0.87	0.17		57.99
Sample Size				227		101	5	1		334
Mean Length				484		543	480	544		502
Std. Error				1		2	6			1
Sample Size				227		101	5	1		334
Both Sexes	288		1,439	101,579	863	58,703	2,302	288	288	165,750
Percent	0.17		0.87	61.28	0.52	35.42	1.39	0.17	0.17	100.00
Sample Size	1		5	353	3	204	8	1	1	576
Mean Length	412		603	494	617	562	496	544	528	519
Std. Error			7	1	5	2	5			1
Sample Size	1		5	352	3	204	8	1	1	575
Sample Period 4: July 6 - July 8										
Males			739	24,024		17,740	739	370	185	43,797
Percent			0.67	21.74		16.05	0.67	0.33	0.17	39.63
Sample Size			4	130		96	4	2	1	237
Mean Length			592	504		579	527	607	627	537
Std. Error			7	3		3	14	19		2
Sample Size			4	130		96	4	2	1	237
Females	185		370	53,035	185	12,566			370	66,711
Percent	0.17		0.33	47.99	0.17	11.37			0.33	60.37
Sample Size	1		2	287	1	68			2	361
Mean Length	475		542	478	582	539			500	491
Std. Error			8	1		3			72	1
Sample Size	1		2	287	1	68			2	361
Both Sexes	185		1,109	77,059	185	30,306	739	370	555	110,508
Percent	0.17		1.00	69.73	0.17	27.42	0.67	0.33	0.50	100.00
Sample Size	1		6	417	1	164	4	2	3	598
Mean Length	475		575	486	582	562	527	607	542	509
Std. Error			5	1		2	14	19	72	1
Sample Size	1		6	417	1	164	4	2	3	598

- Continued -

Table 12. (p 3 of 3)

	Age Group									Total
	0.2	1.1	0.3	1.2	0.4	1.3	2.2	1.4	2.3	
Sample Period 5: July 9 - July 21										
Males	623	415	1,246	23,889		19,525	415	623	208	46,944
Percent	0.46	0.31	0.92	17.64		14.42	0.31	0.46	0.15	34.66
Sample Size	3	2	6	115		94	2	3	1	226
Mean Length	414	316	583	503		580	500	611	578	536
Std. Error	11	1	14	3		3	6	11		2
Sample Size	3	2	6	115		94	2	3	1	226
Females	208	208	623	77,271		9,347	623		208	88,488
Percent	0.15	0.15	0.46	57.06		6.90	0.46		0.15	65.34
Sample Size	1	1	3	372		45	3		1	426
Mean Length	442	354	558	472		529	474		563	479
Std. Error			18	1		5	13			1
Sample Size	1	1	3	372		45	3		1	426
Both Sexes	831	623	1,869	101,160		28,872	1,038	623	416	135,432
Percent	0.61	0.46	1.38	74.69		21.32	0.77	0.46	0.31	100.00
Sample Size	4	3	9	487		139	5	3	2	652
Mean Length	421	329	575	480		563	484	611	571	498
Std. Error	11	1	11	1		3	8	11		1
Sample Size	4	3	9	487		139	5	3	2	652
All Periods Combined:										
Males	911	415	3,424	248,879	863	229,465	7,283	2,303	11,284	504,827
Percent	0.08	0.04	0.29	21.16	0.07	19.51	0.62	0.20	0.96	42.92
Sample Size	4	2	15	606	3	521	16	7	18	1,192
Mean Length	413	316	593	509	617	567	517	570	578	538
Std. Error	11	1	6	2	5	2	9	4	10	1
Sample Size	4	2	15	605	3	521	16	7	18	1,191
Females	1,145	208	993	422,252	185	228,931	4,222	943	12,420	671,299
Percent	0.10	0.02	0.08	35.90	0.02	19.46	0.36	0.08	1.06	57.08
Sample Size	3	1	5	1,209	1	460	11	2	19	1,711
Mean Length	443	354	552	484	582	537	510	545	533	503
Std. Error			12	1		2	21		8	1
Sample Size	3	1	5	1,209	1	460	11	2	19	1,711
Both Sexes	2,056	623	4,417	671,131	1,048	458,396	11,505	3,246	23,704	1,176,126
Percent	0.17	0.05	0.38	57.06	0.09	38.98	0.98	0.28	2.02	100.00
Sample Size	7	3	20	1,815	4	981	27	9	37	2,903
Mean Length	430	329	584	493	611	552	514	563	554	518
Std. Error	11	1	5	1	5	1	9	4	6	1
Sample Size	7	3	20	1,814	4	981	27	9	37	2,902

Table 13. Age, sex, and size (length in mm and weight in kg) composition of sockeye salmon escapement, Igushik River, 1993.

	Age Group							Total
	1.1	0.3	1.2	1.3	2.2	1.4	2.3	
Sample Period 1: June 22 - July 2								
Males			9,048	37,457	210	631	210	47,556
Percent			7.60	31.45	0.18	0.53	0.18	39.93
Sample Size			43	178	1	3	1	226
Mean Length			544	584	561	583	575	577
Std. Error			5	4		5		3
Sample Size			43	175	1	3	1	223
Females			11,994	56,604	421	1,473	1,052	71,544
Percent			10.07	47.53	0.35	1.24	0.88	60.07
Sample Size			57	269	2	7	5	340
Mean Length			515	555	526	573	549	549
Std. Error			5	2	13	5	7	1
Sample Size			57	267	2	7	5	338
Both Sexes			21,042	94,061	631	2,104	1,262	119,100
Percent			17.67	78.98	0.53	1.77	1.06	100.00
Sample Size			100	447	3	10	6	566
Mean Length			528	567	537	576	553	560
Std. Error			4	2	13	4	7	2
Sample Size			100	442	3	10	6	561
Sample Period 2: July 3 - July 6								
Males	194	194	16,490	37,054	388	388		54,708
Percent	0.16	0.16	13.18	29.61	0.31	0.31		43.72
Sample Size	1	1	85	191	2	2		282
Mean Length		640	555	591	554	616		578
Std. Error			4	2	16	1		2
Sample Size		1	84	191	2	2		280
Females		388	17,460	50,246	776	970	582	70,422
Percent		0.31	13.95	40.16	0.62	0.78	0.47	56.28
Sample Size		2	90	259	4	5	3	363
Mean Length		559	508	551	543	576	563	541
Std. Error		1	3	2	22	3	9	1
Sample Size		2	85	254	2	5	3	351
Both Sexes	194	582	33,950	87,300	1,164	1,358	582	125,130
Percent	0.16	0.47	27.13	69.77	0.93	1.09	0.47	100.00
Sample Size	1	3	175	450	6	7	3	644
Mean Length		586	531	568	546	587	563	558
Std. Error		1	3	1	15	2	9	1
Sample Size		3	169	445	4	7	3	631

- Continued -

Table 13. (p 2 of 3)

	Age Group						Total	
	1.1	0.3	1.2	1.3	2.2	1.4		2.3
Sample Period 3: July 7 - July 9								
Males		277	9,845	23,018	277	416	139	33,972
Percent		0.41	14.49	33.88	0.41	0.61	0.20	50.00
Sample Size		2	71	166	2	3	1	245
Mean Length		564	526	588	566	597	586	570
Std. Error		10	2	2	26	12		1
Sample Size		2	71	166	2	3	1	245
Females		277	11,509	21,909		277		33,972
Percent		0.41	16.94	32.25		0.41		50.00
Sample Size		2	83	158		2		245
Mean Length		553	504	555		567		538
Std. Error		2	3	2		18		2
Sample Size		2	83	158		2		245
Both Sexes		554	21,354	44,927	277	693	139	67,944
Percent		0.82	31.43	66.12	0.41	1.02	0.20	100.00
Sample Size		4	154	324	2	5	1	490
Mean Length		559	514	572	566	585	586	554
Std. Error		5	2	1	26	10		1
Sample Size		4	154	324	2	5	1	490
Sample Period 4: July 10 - July 22								
Males			16,590	21,624	373		1,118	39,705
Percent			17.76	23.15	0.40		1.20	42.52
Sample Size			89	116	2		6	213
Mean Length			523	577	515		581	554
Std. Error			2	3	10		9	2
Sample Size			89	116	2		6	213
Females		373	29,825	21,996	559		932	53,685
Percent		0.40	31.94	23.55	0.60		1.00	57.48
Sample Size		2	160	118	3		5	288
Mean Length		536	492	540	480		547	513
Std. Error		6	2	3	15		11	2
Sample Size		2	160	118	3		5	288
Both Sexes		373	46,415	43,620	932		2,050	93,390
Percent		0.40	49.70	46.71	1.00		2.20	100.00
Sample Size		2	249	234	5		11	501
Mean Length		536	503	558	494		566	530
Std. Error		6	2	2	10		7	1
Sample Size		2	249	234	5		11	501

- Continued -

Table 13. (p 3 of 3)

	Age Group							Total
	1.1	0.3	1.2	1.3	2.2	1.4	2.3	
All Periods Combined:								
Males	194	471	51,973	119,153	1,248	1,435	1,467	175,941
Percent	0.05	0.12	12.81	29.38	0.31	0.35	0.36	43.38
Sample Size	1	3	288	651	7	8	8	966
Mean Length		595	537	586	546	596	581	571
Std. Error		10	2	1	10	4	9	1
Sample Size		3	287	648	7	8	8	961
Females		1,038	70,788	150,755	1,756	2,720	2,566	229,623
Percent		0.26	17.45	37.17	0.43	0.67	0.63	56.62
Sample Size		6	390	804	9	14	13	1,236
Mean Length		549	502	552	519	573	551	536
Std. Error		2	2	1	11	4	5	1
Sample Size		6	385	797	7	14	13	1,222
Both Sexes	194	1,509	122,761	269,908	3,004	4,155	4,033	405,564
Percent	0.05	0.37	30.27	66.55	0.74	1.02	0.99	100.00
Sample Size	1	9	678	1,455	16	22	21	2,201
Mean Length		563	517	567	530	581	562	551
Std. Error		3	1	1	8	3	5	1
Sample Size		9	672	1,445	14	22	21	2,183

Table 14. Age, sex, and size (length in mm and weight in kg) composition of sockeye salmon escapement, Nushagak River, 1993.

	Age Group									Total
	0.2	0.3	1.2	0.4	1.3	2.2	1.4	2.3	2.4	
Sample Period 1: June 15 - June 27										
Males	3,148	2,361	6,690	2,361	75,164		7,084	394		97,202
Percent	1.52	1.14	3.23	1.14	36.24		3.42	0.19		46.87
Sample Size	8	6	17	6	191		18	1		247
Mean Length	430	584	432	618	580		613	592		569
Std. Error	5	21	10	13	3		6			2
Sample Size	8	6	17	6	189		18	1		245
Females		3,542	1,574	1,968	89,330		13,380		394	110,188
Percent		1.71	0.76	0.95	43.07		6.45		0.19	53.13
Sample Size		9	4	5	227		34		1	280
Mean Length		543	455	581	557		578		560	558
Std. Error		7	26	11	1		4			1
Sample Size		9	4	5	226		34		1	279
Both Sexes	3,148	5,903	8,264	4,329	164,494		20,464	394	394	207,390
Percent	1.52	2.85	3.98	2.09	79.32		9.87	0.19	0.19	100.00
Sample Size	8	15	21	11	418		52	1	1	527
Mean Length	430	560	437	601	568		590	592	560	563
Std. Error	5	9	9	9	1		3			1
Sample Size	8	15	21	11	415		52	1	1	524
Sample Period 2: June 28 - June 29										
Males	3,734	4,001	2,134	1,334	44,540		2,400			58,143
Percent	3.14	3.36	1.79	1.12	37.44		2.02			48.88
Sample Size	14	15	8	5	167		9			218
Mean Length	429	567	470	622	586		615			573
Std. Error	5	13	15	15	3		9			2
Sample Size	14	15	7	5	167		9			217
Females		4,534	1,334	2,134	48,540	267	3,734	267		60,810
Percent		3.81	1.12	1.79	40.81	0.22	3.14	0.22		51.12
Sample Size		17	5	8	182	1	14	1		228
Mean Length		548	526	583	559	530	580	561		560
Std. Error		4	24	8	1		5			1
Sample Size		17	5	8	182	1	14	1		228
Both Sexes	3,734	8,535	3,468	3,468	93,080	267	6,134	267		118,953
Percent	3.14	7.18	2.92	2.92	78.25	0.22	5.16	0.22		100.00
Sample Size	14	32	13	13	349	1	23	1		446
Mean Length	429	557	492	598	572	530	594	561		566
Std. Error	5	6	13	7	1		5			1
Sample Size	14	32	12	13	349	1	23	1		445

- Continued -

Table 14. (p 2 of 3)

	Age Group									Total
	0.2	0.3	1.2	0.4	1.3	2.2	1.4	2.3	2.4	
Sample Period 3: June 30 - July 3										
Males	7,220	10,378	5,415	1,805	57,758	451	3,159	451		86,637
Percent	3.86	5.56	2.90	0.97	30.92	0.24	1.69	0.24		46.38
Sample Size	16	23	12	4	128	1	7	1		192
Mean Length	429	571	480	639	594	532	622	604		572
Std. Error	11	9	18	8	2		8			2
Sample Size	16	23	12	4	128	1	7	1		192
Females		16,696	4,061	5,866	65,879		7,220	451		100,173
Percent		8.94	2.17	3.14	35.27		3.86	0.24		53.62
Sample Size		37	9	13	146		16	1		222
Mean Length		553	511	581	560		590	598		561
Std. Error		3	9	5	2		5			1
Sample Size		37	9	13	146		16	1		222
Both Sexes	7,220	27,074	9,476	7,671	123,637	451	10,379	902		186,810
Percent	3.86	14.49	5.07	4.11	66.18	0.24	5.56	0.48		100.00
Sample Size	16	60	21	17	274	1	23	2		414
Mean Length	429	560	494	594	576	532	600	601		566
Std. Error	11	4	11	5	1		4			1
Sample Size	16	60	21	17	274	1	23	2		414
Sample Period 4: July 4 - August 9										
Males	21,585	35,853	5,488	5,854	42,436	366	2,561	366		114,509
Percent	10.69	17.75	2.72	2.90	21.01	0.18	1.27	0.18		56.70
Sample Size	59	98	15	16	116	1	7	1		313
Mean Length	421	599	468	634	596	562	618	585		560
Std. Error	2	3	15	4	2		8			1
Sample Size	59	97	15	16	116	1	7	1		312
Females		31,463	6,585	11,341	33,657	366	3,293	732		87,437
Percent		15.58	3.26	5.62	16.67	0.18	1.63	0.36		43.30
Sample Size		86	18	31	92	1	9	2		239
Mean Length		554	501	589	556	523	581	574		556
Std. Error		2	7	4	3		9	10		2
Sample Size		86	18	31	92	1	9	2		239
Both Sexes	21,585	67,316	12,073	17,195	76,093	732	5,854	1,098		201,946
Percent	10.69	33.33	5.98	8.51	37.68	0.36	2.90	0.54		100.00
Sample Size	59	184	33	47	208	2	16	3		552
Mean Length	421	578	486	605	579	543	597	578		558
Std. Error	2	2	8	3	2		6	10		1
Sample Size	59	183	33	47	208	2	16	3		551

- Continued -

Table 14. (p 3 of 3)

	Age Group									Total
	0.2	0.3	1.2	0.4	1.3	2.2	1.4	2.3	2.4	
All Periods Combined:										
Males	35,687	52,593	19,727	11,354	219,898	817	15,204	1,211		356,491
Percent	4.99	7.35	2.76	1.59	30.75	0.11	2.13	0.17		49.85
Sample Size	97	142	52	31	602	2	41	3		970
Mean Length	424	590	459	630	588	545	616	594		567
Std. Error	3	3	8	4	1		4			1
Sample Size	97	141	51	31	600	2	41	3		966
Females		56,235	13,554	21,309	237,406	633	27,627	1,450	394	358,608
Percent		7.86	1.90	2.98	33.20	0.09	3.86	0.20	0.06	50.15
Sample Size		149	36	57	647	2	73	4	1	969
Mean Length		553	501	586	558	526	582	579	560	559
Std. Error		1	6	3	1		3	10		1
Sample Size		149	36	57	646	2	73	4	1	968
Both Sexes	35,687	108,828	33,281	32,663	457,304	1,450	42,831	2,661	394	715,099
Percent	4.99	15.22	4.65	4.57	63.95	0.20	5.99	0.37	0.06	100.00
Sample Size	97	291	88	88	1,249	4	114	7	1	1,939
Mean Length	424	571	476	601	573	537	594	586	560	563
Std. Error	3	2	5	2	1		2	10		1
Sample Size	97	290	87	88	1,246	4	114	7	1	1,934

Table 15. Age, sex, and size (length in mm and weight in mm) composition of sockeye salmon commercial catch, Togiak River Section, 1993.

	Age Group							Total	
	0.2	0.3	1.2	0.4	1.3	2.2	1.4		2.3
Sample Period 1: June 8 - July 2									
Males		906	3,237		24,734	1,036	906	906	31,725
Percent		1.42	5.06		38.67	1.62	1.42	1.42	49.60
Sample Size		7	25		191	8	7	7	245
Mean Length		562	537		589	540	607	603	582
Std. Error		17	6		2	9	10	14	2
Sample Size		7	25		191	8	7	7	245
Mean Weight		3.74	2.66		4.03	3.42	5.01	4.22	3.90
Std. Error		0.40	0.18		0.08	0.52	0.52	0.78	0.07
Sample Size		3	8		49	1	2	2	65
Females		1,683	3,496		24,992	906	388	777	32,242
Percent		2.63	5.47		39.07	1.42	0.61	1.21	50.40
Sample Size		13	27		193	7	3	6	249
Mean Length		550	509		559	543	553	563	552
Std. Error		5	5		1	8	5	9	1
Sample Size		13	27		193	7	3	6	249
Mean Weight		2.61	2.08		2.91	2.89	2.96		2.80
Std. Error		0.11	0.15		0.05	0.17	0.17		0.04
Sample Size		5	6		49	1	2		63
Both Sexes		2,589	6,733		49,726	1,942	1,294	1,683	63,967
Percent		4.05	10.53		77.74	3.04	2.02	2.63	100.00
Sample Size		20	52		384	15	10	13	494
Mean Length		554	523		574	542	591	584	567
Std. Error		7	4		1	6	7	9	1
Sample Size		20	52		384	15	10	13	494
Mean Weight		3.01	2.36		3.47	3.17	4.40	4.22	3.35
Std. Error		0.16	0.12		0.05	0.36	0.36	0.78	0.04
Sample Size		8	14		98	2	4	2	128
Sample Period 2: July 3 - July 8									
Males	283	5,099	12,182	283	47,878	1,133	567	1,700	69,125
Percent	0.21	3.71	8.87	0.21	34.85	0.82	0.41	1.24	50.31
Sample Size	1	18	43	1	169	4	2	6	244
Mean Length	516	577	535	618	589	552	563	587	577
Std. Error		5	3		2	4	11	11	1
Sample Size	1	18	43	1	169	4	2	6	244
Mean Weight		3.91	2.73	4.78	4.82		3.22	4.32	4.35
Std. Error		0.31	0.17		0.95				0.67
Sample Size		3	7	1	43		1	1	56
Females		5,383	9,066	283	48,161	1,983	283	3,116	68,275
Percent		3.92	6.60	0.21	35.05	1.44	0.21	2.27	49.69
Sample Size		19	32	1	170	7	1	11	241
Mean Length		547	517	594	555	525	564	567	549
Std. Error		5	4		2	6		8	1
Sample Size		19	32	1	170	7	1	11	241
Mean Weight		3.08	2.45	4.04	2.89	2.32		3.22	2.85
Std. Error			0.15		0.05			0.32	0.04
Sample Size		1	5	1	48	1		3	59
Both Sexes	283	10,482	21,248	566	96,039	3,116	850	4,816	137,400
Percent	0.21	7.63	15.46	0.41	69.90	2.27	0.62	3.51	100.00
Sample Size	1	37	75	2	339	11	3	17	485
Mean Length	516	562	527	606	572	535	563	574	564
Std. Error		3	3		1	4	11	7	1
Sample Size	1	37	75	2	339	11	3	17	485
Mean Weight		3.48	2.61	4.41	3.85	2.32	3.22	3.61	3.60
Std. Error		0.31	0.12		0.47			0.32	0.34
Sample Size		4	12	2	91	1	1	4	115

- Continued -

Table 15. (p 2 of 3)

	Age Group							Total	
	0.2	0.3	1.2	0.4	1.3	2.2	1.4		2.3
Sample Period 3: July 9 - July 12									
Males	953	4,552			10,055	847	106	635	17,148
Percent	2.87	13.70			30.25	2.55	0.32	1.91	51.59
Sample Size	9	43			95	8	1	6	162
Mean Length	582	541			587	540	589	611	573
Std. Error	9	2			2	8		6	2
Sample Size	9	43			95	8	1	6	162
Mean Weight	4.20	2.72			3.79		4.36	4.06	3.53
Std. Error		0.17			0.12			0.17	0.09
Sample Size	1	7			29		1	2	40
Females	635	3,387			10,268	529		1,270	16,089
Percent	1.91	10.19			30.89	1.59		3.82	48.41
Sample Size	6	32			97	5		12	152
Mean Length	545	517			562	526		562	550
Std. Error	9	4			2	7		7	2
Sample Size	6	32			97	5		12	152
Mean Weight	2.99	2.12			2.96	2.47		3.21	2.79
Std. Error		0.05			0.09	0.24		0.28	0.07
Sample Size	1	9			23	2		2	37
Both Sexes	1,588	7,939			20,323	1,376	106	1,905	33,237
Percent	4.78	23.89			61.15	4.14	0.32	5.73	100.00
Sample Size	15	75			192	13	1	18	314
Mean Length	567	531			574	534	589	578	562
Std. Error	7	2			2	6		5	1
Sample Size	15	75			192	13	1	18	314
Mean Weight	3.72	2.46			3.37	2.47	4.36	3.49	3.16
Std. Error		0.10			0.07	0.24		0.19	0.05
Sample Size	2	16			52	2	1	4	77
Sample Period 4: July 13 - August 25									
Males	9,332	25,124	1,436		54,557	7,896	2,871	22,971	124,187
Percent	3.87	10.42	0.60		22.62	3.27	1.19	9.52	51.49
Sample Size	13	35	2		76	11	4	32	173
Mean Length	583	544	620		583	541	609	592	575
Std. Error	5	4	8		3	5	8	5	2
Sample Size	13	35	2		76	11	4	32	173
Mean Weight		2.84			3.76	2.75		4.06	3.54
Std. Error		0.13			0.12	0.26		0.20	0.08
Sample Size		13			26	3		10	52
Females	718	10,050	28,714	718	41,633	5,025	1,436	28,714	117,008
Percent	0.30	4.17	11.90	0.30	17.26	2.08	0.60	11.90	48.51
Sample Size	1	14	40	1	58	7	2	40	163
Mean Length	505	535	523	534	556	507	551	562	545
Std. Error		7	4		3	6	5	5	2
Sample Size	1	14	40	1	58	7	2	40	163
Mean Weight			2.23		2.94	2.25		3.07	2.75
Std. Error			0.09		0.12	0.12		0.11	0.06
Sample Size			12		13	3		9	37
Both Sexes	718	19,382	53,838	2,154	96,190	12,921	4,307	51,685	241,195
Percent	0.30	8.04	22.32	0.89	39.88	5.36	1.79	21.43	100.00
Sample Size	1	27	75	3	134	18	6	72	336
Mean Length	505	558	533	591	571	528	590	575	561
Std. Error		4	3	8	2	4	5	3	1
Sample Size	1	27	75	3	134	18	6	72	336
Mean Weight			2.51		3.41	2.56		3.51	3.16
Std. Error			0.08		0.09	0.16		0.11	0.05
Sample Size			25		39	6		19	89

- Continued -

Table 15. (p 3 of 3)

	Age Group								Total
	0.2	0.3	1.2	0.4	1.3	2.2	1.4	2.3	
All Periods Combined:									
Males	283	16,290	45,095	1,719	137,224	10,912	4,450	26,212	242,185
Percent	0.06	3.42	9.48	0.36	28.84	2.29	0.94	5.51	50.90
Sample Size	1	47	146	3	531	31	14	51	824
Mean Length	516	579	541	619	586	542	602	592	577
Std. Error		3	3	8	1	4	6	4	1
Sample Size	1	47	146	3	531	31	14	51	824
Mean Weight		3.93	2.79	4.78	4.18	2.83	4.32	4.08	3.83
Std. Error		0.27	0.09		0.34	0.26	0.52	0.19	0.21
Sample Size		7	35	1	147	4	4	15	213
Females	718	17,751	44,663	1,001	125,054	8,443	2,107	33,877	233,614
Percent	0.15	3.73	9.39	0.21	26.28	1.77	0.44	7.12	49.10
Sample Size	1	52	131	2	518	26	6	69	805
Mean Length	505	540	520	551	557	516	553	563	548
Std. Error		4	3		1	4	4	4	1
Sample Size	1	52	131	2	518	26	6	69	805
Mean Weight		2.97	2.25	4.04	2.92	2.35	2.96	3.09	2.79
Std. Error		0.11	0.06		0.05	0.11	0.17	0.10	0.03
Sample Size		7	32	1	133	7	2	14	196
Both Sexes	1,001	34,041	89,758	2,720	262,278	19,355	6,557	60,089	475,799
Percent	0.21	7.15	18.86	0.57	55.12	4.07	1.38	12.63	100.00
Sample Size	2	99	277	5	1,049	57	20	120	1,629
Mean Length	508	559	531	594	572	531	586	576	562
Std. Error		3	2	8	1	3	4	3	1
Sample Size	2	99	277	5	1,049	57	20	120	1,629
Mean Weight		3.42	2.52	4.41	3.58	2.60	4.05	3.53	3.32
Std. Error		0.21	0.05		0.18	0.16	0.36	0.10	0.11
Sample Size		14	67	2	280	11	6	29	409

Table 16. Age, sex, and size (length in mm and weight in kg) composition of sockeye salmon escapement, Togiak River, 1993.

	Age Group						Total
	0.3	1.2	1.3	2.2	1.4	2.3	
Sample Period 1: June 29 - July 11							
Males		1,200	17,165	646	92	1,200	20,303
Percent		2.42	34.57	1.30	0.19	2.42	40.89
Sample Size		13	186	7	1	13	220
Mean Length		550	606	563	618	603	601
Std. Error		9	1	14		5	1
Sample Size		13	186	7	1	13	220
Females	185	2,307	25,286	1,015		554	29,347
Percent	0.37	4.65	50.93	2.04		1.12	59.11
Sample Size	2	25	274	11		6	318
Mean Length	576	514	566	501		578	560
Std. Error	10	6	1	7		7	1
Sample Size	2	25	274	11		6	318
Both Sexes	185	3,507	42,451	1,661	92	1,754	49,650
Percent	0.37	7.06	85.50	3.35	0.19	3.53	100.00
Sample Size	2	38	460	18	1	19	538
Mean Length	576	527	582	525	618	595	577
Std. Error	10	5	1	7		4	1
Sample Size	2	38	460	18	1	19	538
Sample Period 2: July 12 - July 18							
Males	122	3,296	19,898	1,099	122	3,784	28,321
Percent	0.18	4.99	30.13	1.66	0.18	5.73	42.88
Sample Size	1	27	163	9	1	31	232
Mean Length	570	534	596	557	578	602	588
Std. Error		5	2	6		4	2
Sample Size	1	27	163	9	1	31	232
Females	366	7,324	23,561	1,953		4,517	37,721
Percent	0.55	11.09	35.68	2.96		6.84	57.12
Sample Size	3	60	193	16		37	309
Mean Length	542	510	561	509		566	549
Std. Error	11	3	2	6		3	1
Sample Size	3	60	193	16		37	309
Both Sexes	488	10,620	43,459	3,052	122	8,301	66,042
Percent	0.74	16.08	65.81	4.62	0.18	12.57	100.00
Sample Size	4	87	356	25	1	68	541
Mean Length	549	517	577	526	578	583	566
Std. Error	11	3	1	5		2	1
Sample Size	4	87	356	25	1	68	541

- Continued -

Table 16. (p 2 of 2)

	Age Group						Total ^a
	0.3	1.2	1.3	2.2	1.4	2.3	
Sample Period 3: July 19 - August 5							
Males	235	3,635	12,898	938	117	2,697	20,520
Percent	0.41	6.38	22.63	1.65	0.21	4.73	36.01
Sample Size	2	31	110	8	1	23	175
Mean Length	591	533	598	540	594	606	585
Std. Error	2	5	2	7		6	2
Sample Size	2	30	110	8	1	23	174
Females	117	13,954	13,837	5,159		3,401	36,468
Percent	0.21	24.49	24.28	9.05		5.97	63.99
Sample Size	1	119	118	44		29	311
Mean Length	555	508	556	513		556	532
Std. Error		2	2	2		6	1
Sample Size	1	119	118	44		29	311
Both Sexes	352	17,589	26,735	6,097	117	6,098	56,988
Percent	0.62	30.86	46.91	10.70	0.21	10.70	100.00
Sample Size	3	150	228	52	1	52	486
Mean Length	579	513	576	517	594	578	551
Std. Error	2	2	2	2		4	1
Sample Size	3	149	228	52	1	52	485
All Periods Combined:							
Males	357	8,131	49,961	2,683	331	7,681	69,144
Percent	0.21	4.71	28.93	1.55	0.19	4.45	40.04
Sample Size	3	71	459	24	3	67	627
Mean Length	584	536	600	552	595	604	591
Std. Error	2	3	1	5		3	1
Sample Size	3	70	459	24	3	67	626
Females	668	23,585	62,684	8,127		8,472	103,536
Percent	0.39	13.66	36.30	4.71		4.91	59.96
Sample Size	6	204	585	71		72	938
Mean Length	553	509	562	511		563	546
Std. Error	8	2	1	2		3	1
Sample Size	6	204	585	71		72	938
Both Sexes	1,025	31,716	112,645	10,810	331	16,153	172,680
Percent	0.59	18.37	65.23	6.26	0.19	9.35	100.00
Sample Size	9	275	1,044	95	3	139	1,565
Mean Length	564	516	579	521	595	582	564
Std. Error	6	1	1	2		2	1
Sample Size	9	274	1,044	95	3	139	1,564

^a Total does not include 15,930 sockeye salmon counted, in the tributaries and mainstem Togiak River, below the counting towers.

Table 17. Age and size (length in mm and weight in kg) composition of chinook salmon commercial catch, Nushagak District, 1993.

	Age Group				Total
	1.2	1.3	1.4	1.5	
Sample Period 1: June 8 - June 16					
Both Sexes	926	5,450	6,217	158	12,751
Percent	7.26	42.74	48.76	1.24	100.00
Sample Size	35	206	235	6	482
Mean Length	552	752	855	894	789
Std. Error	8	3	3	12	2
Sample Size	35	206	235	6	482
Mean Weight	2.27	7.29	10.01	11.78	8.33
Std. Error		0.21	0.26		0.16
Sample Size	1	43	71	2	117
Sample Period 2: June 17 - June 20					
Both Sexes	10,079	9,495	6,757	117	26,448
Percent	38.11	35.90	25.55	0.44	100.00
Sample Size	173	163	116	2	454
Mean Length	554	746	835	884	696
Std. Error	3	5	6	29	3
Sample Size	173	163	116	2	454
Mean Weight	2.31	6.41	10.81		5.97
Std. Error	0.09	0.36	0.46		0.18
Sample Size	47	38	36		121
Sample Period 3: June 21 - June 30					
Both Sexes	7,285	3,766	4,661	155	15,867
Percent	45.91	23.73	29.38	0.98	100.00
Sample Size	236	122	151	5	514
Mean Length	561	742	863	878	696
Std. Error	3	7	6	36	3
Sample Size	236	122	151	5	514
Mean Weight	2.28	5.78	10.25	12.55	5.55
Std. Error	0.07	0.31	0.47		0.16
Sample Size	133	48	46	2	229
Sample Period 4: July 1 - July 29					
Both Sexes	1,562	3,368	2,894	86	7,910
Percent	19.75	42.58	36.59	1.09	100.00
Sample Size	109	235	202	6	552
Mean Length	553	717	861	902	740
Std. Error	7	6	4	22	3
Sample Size	109	235	202	6	552
Mean Weight	2.16	6.51	10.61	19.00	7.22
Std. Error	0.17	0.37	0.29		0.19
Sample Size	36	79	77	1	193

- Continued -

Table 17. (p 2 of 2)

	Age Group				Total
	1.2	1.3	1.4	1.5	
All Periods Combined:					
Both Sexes	19,852	22,079	20,529	516	62,976
Percent	31.52	35.06	32.60	0.82	100.00
Sample Size	553	726	704	19	2,002
Mean Length	556	742	851	888	720
Std. Error	2	3	3	14	1
Sample Size	553	726	704	19	2,002
Mean Weight	2.29	6.54	10.41	12.99	6.50
Std. Error	0.06	0.18	0.21		0.09
Sample Size	217	208	230	5	660

Table 18. Age and size (length in mm and weight in kg) composition of chinook salmon escapement, Nushagak River, 1993.

	Age Group						Total
	1.1	1.2	1.3	1.4	1.5	2.4	
Sample period: June 4 - August 9							
Both Sexes	587	16,909	34,993	43,915	1,291	117	97,812
Percent	0.60	17.29	35.78	44.90	1.32	0.12	100.00
Sample Size	5	144	298	374	11	1	833
Mean Length	394	562	764	868	932	874	776
Std. Error	43	5	5	4	24		3
Sample Size	5	144	298	374	11	1	833

Table 19. Age and size (length in mm and weight in kg) composition of chinook salmon commercial catch, Togiak River Section, 1993.

	Age Group				Total
	1.2	1.3	1.4	1.5	
Sample period: June 4 - August 23					
Both Sexes	2,380	3,498	3,861	315	10,054
Percent	23.67	34.79	38.40	3.13	100.00
Sample Size	151	222	245	20	638
Mean Length	552	680	840	892	718
Std. Error	5	6	5	13	3
Sample Size	151	222	245	20	638
Mean Weight	3.16	5.48	10.57	13.74	7.14
Std. Error	0.19	0.29	0.51	1.44	0.23
Sample Size	33	38	36	4	111

Table 20. Age, sex, and size (length in mm and weight in kg) composition of chum salmon commercial catch, Nushagak District, 1993.

	Age Group				Total
	0.2	0.3	0.4	0.5	
Sample Period 1: June 8 - June 30					
Males	24,770	54,989	4,954		84,713
Percent	11.44	25.40	2.29		39.13
Sample Size	50	111	10		171
Mean Length	567	587	600		582
Std. Error	4	3	9		2
Sample Size	50	111	10		171
Mean Weight	2.97	3.29	3.29		3.20
Std. Error	0.15	0.11	0.11		0.08
Sample Size	11	36	4		51
Females	32,696	93,630	5,449		131,775
Percent	15.10	43.25	2.52		60.87
Sample Size	66	189	11		266
Mean Length	548	571	579		566
Std. Error	3	2	8		2
Sample Size	66	189	11		266
Mean Weight	2.59	2.90	3.62		2.85
Std. Error	0.12	0.06	0.01		0.05
Sample Size	15	44	2		61
Both Sexes	57,466	148,619	10,403		216,488
Percent	26.54	68.65	4.81		100.00
Sample Size	116	300	21		437
Mean Length	556	577	589		572
Std. Error	2	2	6		1
Sample Size	116	300	21		437
Mean Weight	2.75	3.04	3.46		2.99
Std. Error	0.10	0.06	0.05		0.05
Sample Size	26	80	6		112
Sample Period 2: July 1 - July 7					
Males	22,284	22,285	2,737		47,306
Percent	15.32	15.32	1.88		32.53
Sample Size	57	57	7		121
Mean Length	561	572	571		567
Std. Error	3	4	11		2
Sample Size	57	57	7		121
Mean Weight	3.08	3.02	2.80		3.04
Std. Error	0.14	0.11	0.13		0.08
Sample Size	14	21	3		38
Females	54,343	41,050	2,737		98,130
Percent	37.37	28.23	1.88		67.47
Sample Size	139	105	7		251
Mean Length	537	554	563		545
Std. Error	2	2	10		1
Sample Size	139	104	7		250
Mean Weight	2.40	2.59	2.55		2.48
Std. Error	0.08	0.06	0.01		0.05
Sample Size	34	20	2		56
Both Sexes	76,627	63,335	5,474		145,436
Percent	52.69	43.55	3.76		100.00
Sample Size	196	162	14		372
Mean Length	544	560	567		552
Std. Error	2	2	7		1
Sample Size	196	161	14		371
Mean Weight	2.60	2.74	2.68		2.66
Std. Error	0.07	0.06	0.06		0.04
Sample Size	48	41	5		94

- Continued -

Table 20. (p 2 of 2)

	Age Group				Total
	0.2	0.3	0.4	0.5	
Sample Period 3: July 8 - July 29					
Males		23,586	14,938	1,179	39,703
Percent		16.39	10.38	0.82	27.60
Sample Size		60	38	3	101
Mean Length		551	580	587	563
Std. Error		3	5	24	3
Sample Size		60	38	3	101
Mean Weight		2.92	3.60	3.88	3.20
Std. Error		0.10	0.37		0.15
Sample Size		25	7	1	33
Females	1,179	58,966	43,241	786	104,172
Percent	0.82	40.98	30.05	0.55	72.40
Sample Size	3	150	110	2	265
Mean Length	502	532	554	572	541
Std. Error	5	2	2	4	2
Sample Size	3	150	110	2	265
Mean Weight	1.89	2.32	2.66	3.12	2.46
Std. Error		0.07	0.08	0.11	0.05
Sample Size	1	36	20	2	59
Both Sexes	1,179	82,552	58,179	1,965	143,875
Percent	0.82	57.38	40.44	1.37	100.00
Sample Size	3	210	148	5	366
Mean Length	502	537	561	581	547
Std. Error	5	2	2	14	1
Sample Size	3	210	148	5	366
Mean Weight	1.89	2.49	2.90	3.58	2.67
Std. Error		0.06	0.11	0.11	0.06
Sample Size	1	61	27	3	92
All Periods Combined:					
Males		70,640	92,212	8,870	171,722
Percent		13.97	18.23	1.75	33.95
Sample Size		167	206	20	393
Mean Length		560	582	589	573
Std. Error		2	2	7	1
Sample Size		167	206	20	393
Mean Weight		2.99	3.27	3.22	3.15
Std. Error		0.08	0.09	0.08	0.06
Sample Size		50	64	8	122
Females	1,179	146,005	177,921	8,972	334,077
Percent	0.23	28.87	35.18	1.77	66.05
Sample Size	3	355	404	20	782
Mean Length	502	537	563	573	552
Std. Error	5	1	1	6	1
Sample Size	3	355	403	20	781
Mean Weight	1.89	2.41	2.77	3.25	2.62
Std. Error		0.05	0.04	0.01	0.03
Sample Size	1	85	84	6	176
Both Sexes	1,179	216,645	270,133	17,842	505,799
Percent	0.23	42.83	53.41	3.53	100.00
Sample Size	3	522	610	40	1,175
Mean Length	502	545	570	581	559
Std. Error	5	1	1	4	1
Sample Size	3	522	609	40	1,174
Mean Weight	1.89	2.60	2.94	3.23	2.80
Std. Error		0.04	0.04	0.04	0.03
Sample Size	1	135	148	14	298

Table 21. Age, sex, and size (length in mm and weight in kg) composition of chum salmon escapement, Nushagak River, 1993.

	Age Group			Total
	0.3	0.4	0.5	
Sample period: June 4 - August 25				
Males	31,856	80,656	5,761	118,273
Percent	14.66	37.13	2.65	54.45
Sample Size	94	238	17	349
Mean Length	577	605	618	598
Std. Error	3	2	9	2
Sample Size	92	238	16	346
Females	35,923	58,967	4,067	98,957
Percent	16.54	27.14	1.87	45.55
Sample Size	106	174	12	292
Mean Length	541	558	575	552
Std. Error	3	2	10	2
Sample Size	106	173	12	291
Both Sexes	67,779	139,623	9,828	217,230
Percent	31.20	64.27	4.52	100.00
Sample Size	200	412	29	641
Mean Length	558	585	600	577
Std. Error	2	1	6	1
Sample Size	198	411	28	637

Table 22. Age, sex, and size (length in mm and weight in kg) composition of chum salmon commercial catch, Togiak River Section, 1993.

	Age Group			Total
	0.3	0.4	0.5	
Sample Period 1: June 4 - July 3				
Males	521	4,303	411	5,235
Percent	5.03	41.53	3.97	50.53
Sample Size	19	157	15	191
Mean Length	579	587	604	588
Std. Error	6	3	7	2
Sample Size	19	157	15	191
Mean Weight	3.42	3.71	3.58	3.67
Std. Error	0.37	0.13	0.21	0.12
Sample Size	4	39	4	47
Females	548	4,330	247	5,125
Percent	5.29	41.8	2.38	49.47
Sample Size	20	158	9	187
Mean Length	549	566	580	565
Std. Error	6	2	8	2
Sample Size	20	158	9	187
Mean Weight	2.60	2.85	3.10	2.84
Std. Error	0.24	0.05	0.09	0.05
Sample Size	3	38	4	45
Both Sexes	1,069	8,633	658	10,360
Percent	10.32	83.33	6.35	100.00
Sample Size	39	315	24	378
Mean Length	564	576	595	576
Std. Error	4	2	5	1
Sample Size	39	315	24	378
Mean Weight	3.00	3.28	3.40	3.26
Std. Error	0.22	0.07	0.14	0.06
Sample Size	7	77	8	92
Sample Period 2: July 4 - July 7				
Males	385	3,565	289	4,239
Percent	4.27	39.58	3.21	47.06
Sample Size	16	148	12	176
Mean Length	574	583	606	583
Std. Error	8	3	8	3
Sample Size	16	148	12	176
Mean Weight	3.37	3.59	4.07	3.60
Std. Error	0.28	0.16	0.97	0.15
Sample Size	8	28	2	38
Females	554	4,045	169	4,768
Percent	6.15	44.91	1.88	52.94
Sample Size	23	168	7	198
Mean Length	553	559	562	559
Std. Error	4	2	9	1
Sample Size	23	168	7	198
Mean Weight	2.68	2.87	2.40	2.83
Std. Error	0.16	0.05		0.05
Sample Size	5	48	1	54
Both Sexes	939	7,610	458	9,007
Percent	10.43	84.49	5.08	100.00
Sample Size	39	316	19	374
Mean Length	561	570	590	570
Std. Error	4	2	6	1
Sample Size	39	316	19	374
Mean Weight	2.96	3.21	3.45	3.19
Std. Error	0.15	0.08	0.97	0.08
Sample Size	13	76	3	92

- Continued -

Table 22. (p 2 of 3)

	Age Group			Total
	0.3	0.4	0.5	
Sample Period 3: July 8 - July 11				
Males	387	1,751	86	2,224
Percent	7.23	32.71	1.61	41.55
Sample Size	27	122	6	155
Mean Length	557	574	581	571
Std. Error	5	3	8	2
Sample Size	27	122	6	155
Mean Weight	3.18	3.23	3.04	3.21
Std. Error	0.16	0.11		0.09
Sample Size	11	25	1	37
Females	488	2,541	100	3,129
Percent	9.12	47.47	1.87	58.45
Sample Size	34	177	7	218
Mean Length	543	560	560	557
Std. Error	3	2	9	2
Sample Size	34	177	7	218
Mean Weight	2.59	2.84	2.92	2.80
Std. Error	0.08	0.05	0.22	0.05
Sample Size	13	39	4	56
Both Sexes	875	4,292	186	5,353
Percent	16.35	80.18	3.47	100.00
Sample Size	61	299	13	373
Mean Length	549	566	569	563
Std. Error	3	2	6	1
Sample Size	61	299	13	373
Mean Weight	2.85	3.00	2.98	2.97
Std. Error	0.08	0.05	0.22	0.05
Sample Size	24	64	5	93
Sample Period 4: July 12 - August 24				
Males	16,686	25,308	1,947	43,941
Percent	15.75	23.88	1.84	41.47
Sample Size	60	91	7	158
Mean Length	555	579	591	570
Std. Error	3	4	14	2
Sample Size	60	91	7	158
Mean Weight	3.16	3.19	3.26	3.18
Std. Error	0.17	0.15	0.28	0.11
Sample Size	14	23	3	40
Females	16,408	42,551	3,059	62,018
Percent	15.49	40.16	2.89	58.53
Sample Size	59	153	11	223
Mean Length	549	555	563	554
Std. Error	3	2	6	2
Sample Size	59	153	11	223
Mean Weight	2.85	2.77	2.53	2.78
Std. Error	0.09	0.06	0.04	0.05
Sample Size	17	39	3	59
Both Sexes	33,094	67,859	5,006	105,959
Percent	31.23	64.04	4.72	100.00
Sample Size	119	244	18	381
Mean Length	552	564	574	561
Std. Error	2	2	7	1
Sample Size	119	244	18	381
Mean Weight	3.01	2.93	2.81	2.95
Std. Error	0.10	0.07	0.11	0.05
Sample Size	31	62	6	99

- Continued -

Table 22. (p 3 of 3)

	Age Group			Total
	0.3	0.4	0.5	
All Periods Combined:				
Males	17,979	34,927	2,733	55,639
Percent	13.76	26.73	2.09	42.58
Sample Size	122	518	40	680
Mean Length	556	580	594	573
Std. Error	3	3	10	2
Sample Size	122	518	40	680
Mean Weight	3.17	3.30	3.39	3.26
Std. Error	0.16	0.11	0.23	0.09
Sample Size	37	115	10	162
Females	17,998	53,467	3,575	75,040
Percent	13.77	40.91	2.74	57.42
Sample Size	136	656	34	826
Mean Length	549	556	564	555
Std. Error	3	1	5	1
Sample Size	136	656	34	826
Mean Weight	2.83	2.79	2.57	2.79
Std. Error	0.08	0.05	0.04	0.04
Sample Size	38	164	12	214
Both Sexes	35,977	88,394	6,308	130,679
Percent	27.53	67.64	4.83	100.00
Sample Size	258	1,174	74	1,506
Mean Length	552	566	577	563
Std. Error	2	1	5	1
Sample Size	258	1,174	74	1,506
Mean Weight	3.00	2.99	2.93	2.99
Std. Error	0.09	0.05	0.10	0.04
Sample Size	75	279	22	376

Table 23. Age, sex, and size (length in mm and weight in kg) composition of coho salmon escapement, Nushagak River, 1993.

	Age Group		Total
	2.1	3.1	
Sample period: July 26 - August 25			
Males	19,691	720	20,411
Percent	46.07	1.68	47.75
Sample Size	82	3	85
Mean Length	539	586	541
Std. Error	6	26	6
Sample Size	82	3	85
Females	22,091	240	22,331
Percent	51.68	0.56	52.25
Sample Size	92	1	93
Mean Length	555	603	556
Std. Error	4		4
Sample Size	90	1	91
Both Sexes	41,782	960	42,742
Percent	97.75	2.25	100.00
Sample Size	174	4	178
Mean Length	548	590	549
Std. Error	4	26	4
Sample Size	172	4	176

Table 24. Bristol Bay sockeye salmon run, 1994.

		Age Group														Total	
System ^a		0.2	1.1	0.3	1.2	2.1	0.4	1.3	2.2	3.1	1.4	2.3	3.2	2.4	3.3		3.4
Kvichak	C	0	0	7,664	692,105	2,843	1,568	1,315,544	11,470,635	0	3,552	386,860	10,763	0	2,079	0	13,893,613
	E	0	874	2,622	811,523	79,663	874	252,996	7,037,285	0	874	151,129	0	0	0	0	8,337,840
	I	0	874	10,286	1,503,628	82,506	2,442	1,568,540	18,507,920	0	4,426	537,989	10,763	0	2,079	0	22,231,453
	S	0	0	332	36,910	693	43	109,673	317,643	0	214	19,013	516	0	75	0	485,112
	T	0	874	10,618	1,540,538	83,199	2,485	1,678,213	18,825,563	0	4,640	557,002	11,279	0	2,154	0	22,716,565
Branch	C	0	0	0	117,818	0	44	135,068	108,581	0	0	29,827	304	0	59	0	391,701
	E	0	295	0	138,072	0	0	25,763	66,847	0	0	11,618	0	0	0	0	242,595
	I	0	295	0	255,890	0	44	160,831	175,428	0	0	41,445	304	0	59	0	634,296
	S	0	0	0	6,281	0	1	11,245	3,011	0	0	1,465	15	0	2	0	22,020
	T	0	295	0	262,171	0	45	172,076	178,439	0	0	42,910	319	0	61	0	656,316
Naknek	C	0	5,299	0	182,203	2,304	230	728,422	702,201	0	31,658	379,074	1,583	9,265	305	0	2,042,544
	E	584	7,367	0	213,077	43,710	0	140,665	432,677	0	3,684	146,328	0	2,718	0	0	990,810
	I	584	12,666	0	395,280	46,014	230	869,087	1,134,878	0	35,342	525,402	1,583	11,983	305	0	3,033,354
	S	17	0	0	9,703	387	4	60,767	19,477	0	1,707	18,568	76	410	11	0	111,127
	T	601	12,666	0	404,983	46,401	234	929,854	1,154,355	0	37,049	543,970	1,659	12,393	316	0	3,144,481
Egegik	C	3,375	0	1,625	287,501	2,424	0	410,960	4,773,961	0	2,422	4,985,659	205,089	25,665	51,532	0	10,750,213
	E	795	1,038	0	106,222	62,838	0	15,059	1,186,826	1,038	1,116	471,812	43,844	4,059	3,330	0	1,897,977
	I	4,170	1,038	1,625	393,723	65,262	0	426,019	5,960,787	1,038	3,538	5,457,471	248,933	29,724	54,862	0	12,648,190
	S	121	0	52	9,665	548	0	29,787	102,302	0	171	192,875	11,925	1,017	1,968	0	350,432
	T	4,291	1,038	1,677	403,388	65,810	0	455,806	6,063,089	1,038	3,709	5,650,346	260,858	30,741	56,830	0	12,998,622
Ugashik	C	1,126	0	12,133	198,137	1,651	0	331,342	1,713,213	0	35,433	1,999,143	19,063	18,231	23,325	0	4,352,797
	E	0	6,386	0	138,297	13,243	0	34,098	723,564	0	0	175,938	2,303	1,239	0	0	1,095,068
	I	1,126	6,386	12,133	336,434	14,894	0	365,440	2,436,777	0	35,433	2,175,081	21,366	19,470	23,325	0	5,447,865
	S	33	0	392	8,259	125	0	25,552	41,821	0	1,711	76,871	1,023	666	837	0	157,289
	T	1,159	6,386	12,525	344,693	15,019	0	390,992	2,478,598	0	37,144	2,251,952	22,389	20,136	24,162	0	5,605,154
Wood	C	0	0	6,645	319,604	0	0	1,121,228	6,187	0	7,409	22,847	0	1,052	0	0	1,484,972
	E	0	11,794	2,830	757,670	1,082	0	675,188	6,969	0	6,663	9,694	0	0	0	0	1,471,890
	I	0	11,794	9,475	1,077,274	1,082	0	1,796,416	13,156	0	14,072	32,541	0	1,052	0	0	2,956,862
	S	0	0	306	26,444	9	0	125,606	226	0	680	1,150	0	36	0	0	154,457
	T	0	11,794	9,781	1,103,718	1,091	0	1,922,022	13,382	0	14,752	33,691	0	1,088	0	0	3,111,319
Igushik	C	0	0	3,148	61,444	0	0	728,286	31,373	0	1,968	27,774	0	433	0	0	854,426
	E	0	0	198	93,793	0	0	317,266	27,024	0	554	7,085	0	0	0	0	445,920
	I	0	0	3,346	155,237	0	0	1,045,552	58,397	0	2,522	34,859	0	433	0	0	1,300,346
	S	0	0	108	3,811	0	0	73,105	1,002	0	122	1,232	0	15	0	0	79,395
	T	0	0	3,454	159,048	0	0	1,118,657	59,399	0	2,644	36,091	0	448	0	0	1,379,741
Snake	C	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	19,606
	E	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	22,480
	I	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	42,086
	S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	T	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	42,086
Nushagak	C	1,921	0	543,342	12,567	0	25,482	413,418	301	0	30,806	5,570	0	732	0	0	1,034,139
	E	8,140	604	193,912	22,339	0	9,015	243,280	572	0	28,301	2,591	0	572	0	0	509,326
	I	10,061	604	737,254	34,906	0	34,497	656,698	873	0	59,107	8,161	0	1,304	0	0	1,543,465
	S	292	0	23,806	857	0	610	45,917	15	0	2,855	288	0	45	0	0	74,684
	T	10,353	604	761,060	35,763	0	35,107	702,615	888	0	61,962	8,449	0	1,349	0	0	1,618,149
Togiak	C	0	0	21,252	22,937	0	874	232,058	4,518	0	2,099	36,839	0	402	142	0	321,121
	E	845	3,207	1,464	76,004	0	0	74,797	2,604	0	443	14,808	0	0	0	0	174,172
	I	845	3,207	22,716	98,941	0	874	306,855	7,122	0	2,542	51,647	0	402	142	0	495,293
	S	25	0	734	2,429	0	15	21,455	122	0	123	1,825	0	14	5	0	26,747
	T	870	3,207	23,450	101,370	0	889	328,310	7,244	0	2,665	53,472	0	416	147	0	522,040
Summary	C	6,422	5,299	595,809	1,894,316	9,222	28,198	5,416,326	18,810,970	0	115,347	7,873,593	236,802	55,780	77,442	0	35,125,526
	E	10,364	31,565	201,026	2,356,997	200,536	9,889	1,779,112	9,484,368	1,038	41,635	991,003	46,147	8,588	3,330	0	15,165,598
	I	16,786	36,864	796,835	4,251,313	209,758	38,087	7,195,438	28,295,338	1,038	156,982	8,864,596	282,949	64,368	80,772	0	50,291,124
	S	488	0	25,730	104,359	1,762	673	503,108	485,620	0	7,582	313,288	13,554	2,202	2,897	0	1,461,263
	T	17,274	36,864	822,565	4,355,672	211,520	38,760	7,698,546	28,780,958	1,038	164,564	9,177,884	296,503	66,570	83,669	0	51,752,387

^a C = Catch, E = Escapement, I = Inshore Return, S = South Peninsula Catch, and T = Total. Egegik escapement includes Shosky Creek and King Salmon River; Ugashik escapement includes King Salmon and Dog Salmon Rivers; Togiak catch is Togiak River Section only and Togiak escapement includes the tower counts, and lower river and tributaries aerial survey estimate.

Table 25. Age, sex, and size (length in mm and weight in kg) composition of sockeye salmon commercial catch and escapement, Bristol Bay, 1994.

	Age Group														Total
	0.2	1.1	0.3	1.2	2.1	0.4	1.3	2.2	3.1	1.4	2.3	3.2	2.4	3.3	
Males															
Percent	0.02	0.04	0.56	4.22	0.40	0.02	6.03	25.26	0.0	0.14	7.85	0.30	0.06	0.08	44.98
Sample Size	19	43	549	2,422	275	14	4,458	7,682	3	95	3,515	115	32	16	19,238
Mean Length	437	346	556	477	367	598	569	515	386	590	578	508	578	578	529
Std. Error	11	3	4	1	2	9	1	0		2	1	3	8	7	0
Sample Size	19	42	540	2,185	274	14	4,373	7,402	3	94	3,250	112	29	14	18,351
Mean Weight	2.44		2.97	2.10		3.87	2.97	2.13		3.61	2.95	1.97	3.59		2.40
Std. Error			0.09	0.03			0.04	0.03		0.28	0.08	0.09			0.01
Sample Size	1		68	111		1	503	485		15	241	22	2		1,449
Females															
Percent	0.02	0.03	1.04	4.23	0.02	0.06	8.40	30.88		0.17	9.75	0.26	0.07	0.09	55.02
Sample Size	17	27	721	2,789	16	33	5,371	9,439		99	4,288	118	32	32	22,982
Mean Length	445	420	535	466	458	565	543	501		576	558	500	517	557	515
Std. Error	20	5	1	1	39	4	1	0		3	1	2	6	7	0
Sample Size	16	27	713	2,562	15	33	5,278	9,179		98	4,047	115	27	31	22,141
Mean Weight	1.96		2.95	2.08	1.02	2.97	2.57	1.99		3.09	2.57	1.96	2.83	2.32	2.21
Std. Error			0.50	0.05		0.45	0.02	0.04		0.20	0.04	0.10			0.02
Sample Size	2		93	91	1	4	608	627		13	367	14	2	3	1,825
Both Sexes															
Percent	0.04	0.07	1.6	8.45	0.42	0.08	14.43	56.14	0	0.31	17.6	0.56	0.13	0.17	100.00
Sample Size	36	70	1,270	5,211	291	47	9,829	17,121	3	194	7,803	233	64	48	42,220
Mean Length	441	379	542	472	372	573	554	507	386	582	567	504	547	567	522
Std. Error	10	3	1	1	2	4	0	0		2	0	2	5	5	0
Sample Size	35	69	1,253	4,747	289	47	9,651	16,581	3	192	7,297	227	56	45	40,492
Mean Weight	1.98		2.96	2.09	1.02	2.98	2.74	2.05		3.32	2.74	1.96	3.15	2.32	2.29
Std. Error			0.34	0.03		0.45	0.02	0.03		0.24	0.04	0.07			0.01
Sample Size	3		161	202	1	5	1,111	1,112		28	608	36	4	3	3,274

Table 26. Age, sex, and size (length in mm and weight in kg) composition of sockeye salmon commercial catch, Naknek-Kvichak District, 1994.

	Age Group											Total	
	1.1	0.3	1.2	2.1	0.4	1.3	2.2	1.4	2.3	3.2	2.4		3.3
Sample Period 1: June 9 - June 30													
Males	365	1,823				5,469	12,762		1,458				21,877
Percent	0.80	4.00				12.00	28.00		3.20				48.00
Sample Size	1	5				15	35		4				60
Mean Length	565	482				557	500		563				518
Std. Error		6				7	4		15				3
Sample Size	1	5				15	35		4				60
Females		1,823				6,563	11,303		4,011				23,700
Percent		4.00				14.40	24.80		8.80				52.00
Sample Size		5				18	31		11				65
Mean Length		493				553	512		555				529
Std. Error		7				4	4		7				3
Sample Size		5				18	31		11				65
Both Sexes	365	3,646				12,032	24,065		5,469				45,577
Percent	0.80	8.00				26.40	52.80		12.00				100.00
Sample Size	1	10				33	66		15				125
Mean Length	565	488				555	506		557				524
Std. Error		5				4	3		6				2
Sample Size	1	10				33	66		15				125
Sample Period 2: July 1 - July 2													
Males		27,801	1,463			40,969	222,405		30,727	1,463	1,463		326,291
Percent		3.50	0.18			5.16	27.99		3.87	0.18	0.18		41.07
Sample Size		19	1			28	152		21	1	1		223
Mean Length		496	393			563	509		562	519	502		519
Std. Error		6				6	2		7				2
Sample Size		19	1			28	152		21	1	1		223
Mean Weight		1.90				2.64	2.42		2.36	2.05			2.40
Std. Error		0.16				0.29	0.19		0.41				0.14
Sample Size		5				7	16		4	1			33
Females	1,463	19,021				73,159	313,124	1,463	58,528		1,463		468,221
Percent	0.18	2.39				9.21	39.41	0.18	7.37		0.18		58.93
Sample Size	1	13				50	214	1	40		1		320
Mean Length	577	481				545	505	579	543		605		516
Std. Error		9				4	2		5				2
Sample Size	1	13				50	214	1	40		1		320
Mean Weight		2.05				2.64	2.07		2.37				2.20
Std. Error		0.17				0.15	0.06		0.15				0.05
Sample Size		5				8	43		6				62
Both Sexes	1,463	46,822	1,463			114,128	535,529	1,463	89,255	1,463	2,926		794,512
Percent	0.18	5.89	0.18			14.36	67.40	0.18	11.23	0.18	0.37		100.00
Sample Size	1	32	1			78	366	1	61	1	2		543
Mean Length	577	490	393			551	507	579	549	519	554		517
Std. Error		5				3	1		4				1
Sample Size	1	32	1			78	366	1	61	1	2		543
Mean Weight		1.96				2.64	2.22		2.37	2.05			2.28
Std. Error		0.12				0.14	0.09		0.17				0.06
Sample Size		10				15	59		10	1			95

- Continued -

Table 26. (p 2 of 8)

	Age Group											Total	
	1.1	0.3	1.2	2.1	0.4	1.3	2.2	1.4	2.3	3.2	2.4		3.3
Sample Period 3: July 3													
Males		25,165				31,457	181,191	2,517	41,523				281,853
Percent		3.77				4.71	27.12	0.38	6.21				42.18
Sample Size		20				25	144	2	33				224
Mean Length		492				561	514	583	572				527
Std. Error		5				6	2	6	6				2
Sample Size		20				25	144	2	33				224
Mean Weight		1.78				2.54	2.11		3.18				2.29
Std. Error		0.21				0.19	0.06		0.25				0.06
Sample Size		3				4	25		9				41
Females		18,874				57,881	260,462	2,517	46,556				386,290
Percent		2.82				8.66	38.98	0.38	6.97				57.82
Sample Size		15				46	207	2	37				307
Mean Length		489				543	506	588	556				517
Std. Error		9				4	2	4	4				2
Sample Size		15				46	207	2	37				307
Mean Weight		1.85				2.76	2.00		2.96				2.22
Std. Error		0.28				0.11	0.07		0.25				0.06
Sample Size		3				7	35		2				47
Both Sexes		44,039				89,338	441,653	5,034	88,079				668,143
Percent		6.59				13.37	66.10	0.75	13.18				100.00
Sample Size		35				71	351	4	70				531
Mean Length		491				550	509	585	564				521
Std. Error		5				3	1	3	3				1
Sample Size		35				71	351	4	70				531
Mean Weight		1.81				2.68	2.05		3.06				2.25
Std. Error		0.17				0.10	0.05		0.18				0.04
Sample Size		6				11	60		11				88
Sample Period 4: July 4													
Males		16,479				13,537	103,585	1,177	5,297				140,075
Percent		5.14				4.22	32.29	0.37	1.65				43.67
Sample Size		28				23	176	2	9				238
Mean Length		502				556	519	589	568				523
Std. Error		6				10	2	13	7				2
Sample Size		28				23	176	2	9				238
Mean Weight		1.91				1.94	2.30	3.68	3.02				2.26
Std. Error		0.09					0.08	0.40	0.05				0.06
Sample Size		4				1	37	2	3				47
Females		12,948				22,365	138,309		6,474		589		180,685
Percent		4.04				6.97	43.12		2.02		0.18		56.33
Sample Size		22				38	235		11		1		307
Mean Length		488				539	508		562		540		512
Std. Error		4				5	2		14				2
Sample Size		22				38	235		11		1		307
Mean Weight						2.47	1.96						2.03
Std. Error						0.11	0.06						0.05
Sample Size						7	37						44
Both Sexes		29,427				35,902	241,894	1,177	11,771		589		320,760
Percent		9.17				11.19	75.41	0.37	3.67		0.18		100.00
Sample Size		50				61	411	2	20		1		545
Mean Length		496				546	513	589	565		540		517
Std. Error		4				5	1	13	9				1
Sample Size		50				61	411	2	20		1		545
Mean Weight		1.91				2.27	2.11	3.68	3.02				2.14
Std. Error		0.09				0.11	0.05	0.40	0.05				0.04
Sample Size		4				8	74	2	3				91

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Table 26. (p 3 of 8)

	Age Group												Total
	1.1	0.3	1.2	2.1	0.4	1.3	2.2	1.4	2.3	3.2	2.4	3.3	
Sample Period 5: July 5													
Males		28,278				46,658	275,709	1,414	28,278				380,337
Percent		3.60				5.95	35.14	0.18	3.60				48.47
Sample Size		20				33	195	1	20				269
Mean Length		501				571	520	641	588				530
Std. Error		6				5	2		5				2
Sample Size		20				33	195	1	20				269
Mean Weight		1.84				2.95	2.18		3.38				2.34
Std. Error		0.07				0.38	0.06		0.72				0.09
Sample Size		4				4	35		2				45
Females		19,794				69,281	267,226	1,414	46,658				404,373
Percent		2.52				8.83	34.05	0.18	5.95				51.53
Sample Size		14				49	189	1	33				286
Mean Length		481				548	505	606	561				518
Std. Error		8				4	2		4				2
Sample Size		14				49	189	1	33				286
Mean Weight		1.64				2.66	1.97		2.71				2.16
Std. Error		0.20				0.19	0.06		0.08				0.05
Sample Size		4				10	24		11				49
Both Sexes		48,072				115,939	542,935	2,828	74,936				784,710
Percent		6.13				14.77	69.19	0.36	9.55				100.00
Sample Size		34				82	384	2	53				555
Mean Length		492				557	513	624	571				524
Std. Error		5				3	1		3				1
Sample Size		34				82	384	2	53				555
Mean Weight		1.76				2.78	2.08		2.96				2.25
Std. Error		0.09				0.19	0.04		0.28				0.05
Sample Size		8				14	59		13				94
Sample Period 6: July 6 - July 7													
Males		79,484				153,669	763,043		21,196				1,017,392
Percent		2.88				5.58	27.69		0.77				36.92
Sample Size		15				29	144		4				192
Mean Length		521				581	533		588				540
Std. Error		12				6	3		3				2
Sample Size		15				29	144		4				192
Mean Weight						3.25	2.63		3.39				2.75
Std. Error						0.21	0.15		0.49				0.13
Sample Size						5	16		2				23
Females	5,299	79,484				302,038	1,292,936		58,288				1,738,045
Percent	0.19	2.88				10.96	46.92		2.12				63.08
Sample Size	1	15				57	244		11				328
Mean Length	505	503				556	524		564				530
Std. Error		7				4	2		9				2
Sample Size	1	15				57	244		11				328
Mean Weight		2.09				2.01	2.40		2.68				2.33
Std. Error		0.25				0.09	0.26		0.75				0.20
Sample Size		4				6	6		2				18
Both Sexes	5,299	158,968				455,707	2,055,979		79,484				2,755,437
Percent	0.19	5.77				16.54	74.62		2.88				100.00
Sample Size	1	30				86	388		15				520
Mean Length	505	512				565	527		570				534
Std. Error		7				3	2		7				1
Sample Size	1	30				86	388		15				520
Mean Weight		2.09				2.43	2.49		2.87				2.48
Std. Error		0.25				0.10	0.17		0.56				0.14
Sample Size		4				11	22		4				41

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Table 26. (p 4 of 8)

	Age Group												Total
	1.1	0.3	1.2	2.1	0.4	1.3	2.2	1.4	2.3	3.2	2.4	3.3	
Sample Period 7: July 8													
Males		24,409				63,464	571,172	9,764	19,527				688,336
Percent		1.29				3.35	30.15	0.52	1.03				36.34
Sample Size		5				13	117	2	4				141
Mean Length		493				592	535	638	618				542
Std. Error		10				5	2	1	14				2
Sample Size		5				13	117	2	4				141
Mean Weight		2.23				3.98	2.09		4.81				2.35
Std. Error							0.12						0.10
Sample Size		1				1	7		1				10
Females		48,818				97,636	1,034,945		24,409				1,205,808
Percent		2.58				5.15	54.64		1.29				63.66
Sample Size		10				20	212		5				247
Mean Length		506				557	513		567				518
Std. Error		7				5	2		13				2
Sample Size		10				20	212		5				247
Mean Weight		1.77				2.50	1.96		2.07				2.00
Std. Error						0.19	0.05						0.05
Sample Size		1				3	30		1				35
Both Sexes		73,227				161,100	1,606,117	9,764	43,936				1,894,144
Percent		3.87				8.51	84.79	0.52	2.32				100.00
Sample Size		15				33	329	2	9				388
Mean Length		502				571	521	638	590				527
Std. Error		6				4	1	1	9				1
Sample Size		15				33	329	2	9				388
Mean Weight		1.92				3.08	2.01		3.29				2.12
Std. Error						0.19	0.05						0.05
Sample Size		2				4	37		2				45
Sample Period 8: July 9													
Males		39,096				83,079	493,586	2,443	21,991		2,443		642,638
Percent		2.96				6.28	37.34	0.18	1.66		0.18		48.61
Sample Size		16				34	202	1	9		1		263
Mean Length		506				584	526	618	578		573		535
Std. Error		8				5	2		11				2
Sample Size		16				34	202	1	9		1		263
Mean Weight		1.61				2.60	2.31		3.29				2.34
Std. Error							0.10		0.04				0.07
Sample Size		1				1	15		2				19
Females		46,426				122,174	476,482	4,887	24,435	2,443		2,443	679,290
Percent		3.51				9.24	36.04	0.37	1.85	0.18		0.18	51.39
Sample Size		19				50	195	2	10	1		1	278
Mean Length		496				554	506	583	541	490		578	516
Std. Error		7				3	2	31	17				1
Sample Size		19				50	195	2	10	1		1	278
Mean Weight		1.62				2.22	1.89		2.07			2.28	1.94
Std. Error							0.06						0.04
Sample Size		1				1	21		1			1	25
Both Sexes		85,522				205,253	970,068	7,330	46,426	2,443	2,443	2,443	1,321,928
Percent		6.47				15.53	73.38	0.55	3.51	0.18	0.18	0.18	100.00
Sample Size		35				84	397	3	19	1	1	1	541
Mean Length		500				566	516	595	559	490	573	578	525
Std. Error		5				3	1	31	10				1
Sample Size		35				84	397	3	19	1	1	1	541
Mean Weight		1.62				2.37	2.10		2.65			2.28	2.13
Std. Error							0.06		0.04				0.04
Sample Size		2				2	36		3			1	44

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Table 26. (p 5 of 8)

	Age Group											Total	
	1.1	0.3	1.2	2.1	0.4	1.3	2.2	1.4	2.3	3.2	2.4		3.3
Sample Period 9: July 10													
Males		48,061				50,465	377,282		28,837				504,645
Percent		3.52				3.70	27.64		2.11				36.97
Sample Size		20				21	157		12				210
Mean Length		491				569	521		549				524
Std. Error		4				5	2		8				2
Sample Size		18				21	122		11				172
Mean Weight		2.18				3.28	2.28		3.27				2.43
Std. Error		0.15				0.19	0.07						0.06
Sample Size		2				4	22		1				29
Females		52,868				117,751	653,635	2,403	33,643				860,300
Percent		3.87				8.63	47.89	0.18	2.46				63.03
Sample Size		22				49	272	1	14				358
Mean Length		492				547	502	607	550				510
Std. Error		7				3	1		6				1
Sample Size		21				47	243	1	10				322
Mean Weight		1.86				2.65	1.94						2.04
Std. Error		0.17				0.16	0.04						0.04
Sample Size		5				9	47						61
Both Sexes		100,929				168,216	1,030,917	2,403	62,480				1,364,945
Percent		7.39				12.32	75.53	0.18	4.58				100.00
Sample Size		42				70	429	1	26				568
Mean Length		492				553	509	607	550				515
Std. Error		4				3	1		5				1
Sample Size		39				68	365	1	21				494
Mean Weight		2.01				2.84	2.06		3.27				2.18
Std. Error		0.11				0.12	0.04						0.03
Sample Size		7				13	69		1				90
Sample Period 10: July 11													
Males		42,348				38,819	299,966		7,058				388,191
Percent		4.38				4.01	31.02		0.73				40.15
Sample Size		12				11	85		2				110
Mean Length		504				588	518		575				525
Std. Error		6				10	3		45				3
Sample Size		12				11	85		2				110
Females		31,761				52,935	490,532		3,529				578,757
Percent		3.28				5.47	50.73		0.36				59.85
Sample Size		9				15	139		1				164
Mean Length		476				547	499		458				502
Std. Error		6				7	2						2
Sample Size		9				15	139		1				164
Both Sexes		74,109				91,754	790,498		10,587				966,948
Percent		7.66				9.49	81.75		1.09				100.00
Sample Size		21				26	224		3				274
Mean Length		492				564	507		536				511
Std. Error		5				6	2		45				1
Sample Size		21				26	224		3				274

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Table 26. (p 6 of 8)

	Age Group												Total
	1.1	0.3	1.2	2.1	0.4	1.3	2.2	1.4	2.3	3.2	2.4	3.3	
Sample Period 11: July 12 - July 14													
Males		36,721				115,058	477,368		34,273				663,420
Percent		2.15				6.74	27.98		2.01				38.88
Sample Size		15				47	195		14				271
Mean Length		502				559	520		586				529
Std. Error		5				5	2		4				2
Sample Size		15				47	194		14				270
Mean Weight		1.79				3.31	2.34		3.32				2.53
Std. Error						0.19	0.08		0.21				0.06
Sample Size		1				8	29		3				41
Females		63,649				127,298	822,542		29,377				1,042,866
Percent		3.73				7.46	48.21		1.72				61.12
Sample Size		26				52	336		12				426
Mean Length		489				543	499		542				505
Std. Error		4				3	1		10				1
Sample Size		26				52	336		12				426
Mean Weight		1.74				2.69	1.91		2.79				2.02
Std. Error		0.06				0.12	0.04						0.03
Sample Size		2				11	62		1				76
Both Sexes		100,370				242,356	1,299,910		63,650				1,706,286
Percent		5.88				14.20	76.18		3.73				100.00
Sample Size		41				99	531		26				697
Mean Length		494				551	507		566				515
Std. Error		3				3	1		5				1
Sample Size		41				99	530		26				696
Mean Weight		1.76				2.98	2.07		3.08				2.22
Std. Error		0.06				0.11	0.04		0.21				0.03
Sample Size		3				19	91		4				117
Sample Period 12: July 15													
Males	1,465	23,445				73,266	320,903		23,445	2,931			445,455
Percent	0.19	2.97				9.29	40.71		2.97	0.37			56.51
Sample Size	1	16				50	219		16	2			304
Mean Length	606	530				568	530		564	524			538
Std. Error		4				6	2		10	11			2
Sample Size	1	16				49	219		16	2			303
Mean Weight		2.36				3.21	2.30		3.29				2.51
Std. Error		0.07				0.19	0.06		0.20				0.06
Sample Size		2				5	17		2				26
Females	1,465	8,792				58,612	247,639		24,910	1,465			342,883
Percent	0.19	1.12				7.43	31.41		3.16	0.19			43.49
Sample Size	1	6				40	169		17	1			234
Mean Length	530	515				535	514		545	567			520
Std. Error		11				4	2		9				2
Sample Size	1	6				40	165		17	1			230
Mean Weight		2.76				2.76	2.04		2.65				2.21
Std. Error		0.22				0.22	0.06						0.06
Sample Size		4				4	16		1				21
Both Sexes	2,930	32,237				131,878	568,542		48,355	2,931	1,465		788,338
Percent	0.37	4.09				16.73	72.12		6.13	0.37	0.19		100.00
Sample Size	2	22				90	388		33	2	1		538
Mean Length	568	526				554	523		554	524	567		530
Std. Error		4				4	1		7	11			1
Sample Size	2	22				89	384		33	2	1		533
Mean Weight		2.36				3.01	2.19		2.96				2.38
Std. Error		0.07				0.14	0.04		0.20				0.04
Sample Size		2				9	33		3				47

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Table 26. (p 7 of 8)

	Age Group											Total	
	1.1	0.3	1.2	2.1	0.4	1.3	2.2	1.4	2.3	3.2	2.4		3.3
Sample Period 13: July 16 - July 17													
Males		44,208	1,842	1,842		81,047	517,596		22,104		1,842		670,481
Percent		2.99	0.12	0.12		5.47	34.95		1.49		0.12		45.27
Sample Size		24	1	1		44	281		12		1		364
Mean Length		491	382	602		569	517		590		596		524
Std. Error		5				5	1		12				1
Sample Size		24	1	1		44	281		12		1		364
Mean Weight		2.46				3.03	2.35						2.44
Std. Error		0.29				0.21	0.09						0.08
Sample Size		3				5	23						31
Females		58,943	1,842			66,311	659,429		23,946				810,471
Percent		3.98	0.12			4.48	44.53		1.62				54.73
Sample Size		32	1			36	358		13				440
Mean Length		480	403			549	500		541				504
Std. Error		5				3	1		5				1
Sample Size		32	1			36	358		13				440
Mean Weight		1.82	1.02			2.83	2.00		2.35				2.06
Std. Error		0.08				0.23	0.05		0.19				0.05
Sample Size		7	1			4	45		3				60
Both Sexes		103,151	3,684	1,842		147,358	1,177,025		46,050		1,842		1,480,952
Percent		6.97	0.25	0.12		9.95	79.48		3.11		0.12		100.00
Sample Size		56	2	1		80	639		25		1		804
Mean Length		485	393	602		560	508		564		596		513
Std. Error		3				3	1		6				1
Sample Size		56	2	1		80	639		25		1		804
Mean Weight		2.09	1.02			2.94	2.15		2.35				2.23
Std. Error		0.13				0.15	0.05		0.19				0.05
Sample Size		10	1			9	68		3				91
Sample Period 14: July 18 - July 19													
Males		14,985				40,345	205,185		16,138				276,653
Percent		2.43				6.55	33.33		2.62				44.94
Sample Size		13				35	178		14				240
Mean Length		496				565	504		570				517
Std. Error		8				5	2		7				2
Sample Size		13				35	177		14				239
Mean Weight		1.95				3.13	2.21		3.30				2.39
Std. Error		0.11				0.32	0.14		0.28				0.11
Sample Size		4				2	9		4				19
Females		12,680				31,124	276,654	2,305	16,138				338,901
Percent		2.06				5.06	44.94	0.37	2.62				55.06
Sample Size		11				27	240	2	14				294
Mean Length		490				535	492	571	534				498
Std. Error		5				7	2	11	11				2
Sample Size		11				27	239	2	13				292
Mean Weight		2.17				2.73	1.91	3.90	2.87				2.05
Std. Error						0.20	0.05						0.04
Sample Size		1				7	16	1	1				26
Both Sexes		27,665				71,469	481,839	2,305	32,276				615,554
Percent		4.49				11.61	78.28	0.37	5.24				100.00
Sample Size		24				62	418	2	28				534
Mean Length		493				552	497	571	552				507
Std. Error		5				4	1	11	7				1
Sample Size		24				62	416	2	27				531
Mean Weight		2.05				2.96	2.04	3.90	3.09				2.21
Std. Error		0.11				0.20	0.06		0.28				0.06
Sample Size		5				9	25	1	5				45

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Table 26. (p 8 of 8)

	Age Group												Total
	1.1	0.3	1.2	2.1	0.4	1.3	2.2	1.4	2.3	3.2	2.4	3.3	
Sample Period 15: July 20 - August 15													
Males			49,410			63,942	293,554	2,906	52,316				462,128
Percent			6.03			7.80	35.82	0.35	6.38				56.38
Sample Size			17			22	101	1	18				159
Mean Length			500			569	522	486	571				532
Std. Error			6			4	3	3	7				2
Sample Size			17			22	101	1	18				159
Females	2,906	14,532				72,662	220,892		40,691	5,813			357,496
Percent	0.35	1.77				8.87	26.95		4.96	0.71			43.62
Sample Size	1	5				25	76		14	2			123
Mean Length	548	498				546	502		540	513			516
Std. Error			10			4	3		9	20			2
Sample Size	1	5				25	76		14	2			123
Both Sexes	2,906	63,942				136,604	514,446	2,906	93,007	5,813			819,624
Percent	0.35	7.80				16.67	62.77	0.35	11.35	0.71			100.00
Sample Size	1	22				47	177	1	32	2			282
Mean Length	548	499				557	514	486	557	513			525
Std. Error			5			3	2		5	20			2
Sample Size	1	22				47	177	1	32	2			282
All Periods Combined:													
Males	1,830	501,713	3,305	1,842		901,244	5,115,307	20,221	354,168	4,394	5,748		6,909,772
Percent	0.01	3.07	0.02	0.01		5.52	31.33	0.12	2.17	0.03	0.04		42.32
Sample Size	2	245	2	1		430	2,381	9	192	3	3		3,268
Mean Length	598	503	387	602		573	523	604	576	522	562		531
Std. Error			2			2	1	2	2	11			1
Sample Size	2	243	2	1		429	2,344	9	191	3	3		3,227
Mean Weight		2.02				3.12	2.33	3.68	3.29	2.05			2.46
Std. Error		0.07				0.08	0.04	0.40	0.13				0.03
Sample Size		30				47	251	2	33	1			364
Females	5,299	5,834	490,413	1,842		1,277,790	7,166,110	14,989	441,593	8,256	3,517	2,443	9,418,086
Percent	0.03	0.04	3.00	0.01		7.83	43.89	0.09	2.70	0.05	0.02	0.01	57.68
Sample Size	1	3	224	1		572	3,117	9	243	3	3	1	4,177
Mean Length	505	551	492	403		549	508	588	550	506	578	578	515
Std. Error			2			1	1	16	2	20			0
Sample Size	1	3	223	1		570	3,083	9	238	3	3	1	4,135
Mean Weight			1.85	1.02		2.45	2.05	3.90	2.58			2.28	2.11
Std. Error			0.07			0.05	0.05		0.20				0.04
Sample Size			33	1		77	382	1	29			1	524
Both Sexes	5,299	7,664	992,126	5,147	1,842	2,179,034	12,281,417	35,210	795,761	12,650	9,265	2,443	16,327,858
Percent	0.03	0.05	6.08	0.03	0.01	13.35	75.22	0.22	4.87	0.08	0.06	0.01	100.00
Sample Size	1	5	469	3	1	1,002	5,498	18	435	6	6	1	7,445
Mean Length	505	562	498	393	602	559	514	597	562	512	568	578	522
Std. Error			2			1	0	7	2	14			0
Sample Size	1	5	466	3	1	999	5,427	18	429	6	6	1	7,362
Mean Weight			1.92	1.02		2.72	2.16	3.83	2.89	2.05		2.28	2.26
Std. Error			0.05			0.04	0.04	0.40	0.12				0.03
Sample Size			63	1		124	633	3	62	1		1	888

Table 27. Age, sex, and size (length in mm and weight in kg) composition of sockeye salmon escapement, Kvichak River, 1994.

	Age Group									Total
	1.1	0.3	1.2	2.1	0.4	1.3	2.2	1.4	2.3	
Sample Period 1: June 23 - July 5										
Males			122,978	8,199		57,390	1,192,890		24,596	1,406,053
Percent			4.51	0.30		2.11	43.76		0.90	51.58
Sample Size			30	2		14	291		6	343
Mean Length			491	366		584	507		614	509
Std. Error			7	8		11	2		10	2
Sample Size			30	2		14	291		6	343
Females			86,085			77,886	1,135,502		20,496	1,319,969
Percent			3.16			2.86	41.65		0.75	48.42
Sample Size			21			19	277		5	322
Mean Length			482			577	499		575	504
Std. Error			6			4	2		6	2
Sample Size			21			19	277		5	322
Both Sexes			209,063	8,199		135,276	2,328,392		45,092	2,726,022
Percent			7.67	0.30		4.96	85.41		1.65	100.00
Sample Size			51	2		33	568		11	665
Mean Length			488	366		580	503		596	507
Std. Error			5	8		5	1		6	1
Sample Size			51	2		33	568		11	665
Sample Period 2: July 6 - July 8										
Males			143,840	31,465		13,485	930,462		31,465	1,150,717
Percent			5.98	1.31		0.56	38.69		1.31	47.85
Sample Size			32	7		3	207		7	256
Mean Length			503	380		611	509		582	508
Std. Error			5	8		12	3		15	2
Sample Size			32	7		3	207		7	256
Females			157,325			26,970	1,051,826		17,980	1,254,101
Percent			6.54			1.12	43.74		0.75	52.15
Sample Size			35			6	234		4	279
Mean Length			482			580	496		547	496
Std. Error			4			11	2		28	2
Sample Size			35			6	234		4	279
Both Sexes			301,165	31,465		40,455	1,982,288		49,445	2,404,818
Percent			12.52	1.31		1.68	82.43		2.06	100.00
Sample Size			67	7		9	441		11	535
Mean Length			492	380		590	502		569	502
Std. Error			3	8		8	2		14	1
Sample Size			67	7		9	441		11	535

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Table 27. (p 2 of 3)

	Age Group									Total
	1.1	0.3	1.2	2.1	0.4	1.3	2.2	1.4	2.3	
Sample Period 3: July 9 - July 11										
Males			78,069	21,292		17,743	567,773		7,097	691,974
Percent			4.05	1.10		0.92	29.47		0.37	35.91
Sample Size			22	6		5	160		2	195
Mean Length			486	360		609	514		580	509
Std. Error			5	10		6	3		3	2
Sample Size			22	6		5	160		2	195
Females			95,812			28,389	1,107,158		3,549	1,234,908
Percent			4.97			1.47	57.46		0.18	64.09
Sample Size			27			8	312		1	348
Mean Length			481			544	496		580	496
Std. Error			4			17	1		1	1
Sample Size			27			8	312		1	348
Both Sexes			173,881	21,292		46,132	1,674,931		10,646	1,926,882
Percent			9.02	1.10		2.39	86.92		0.55	100.00
Sample Size			49	6		13	472		3	543
Mean Length			483	360		569	502		580	501
Std. Error			3	10		11	1		3	1
Sample Size			49	6		13	472		3	543
Sample Period 4: July 12 - July 16										
Males	874	874	25,345	14,857		10,488	89,145		5,244	146,827
Percent	0.18	0.18	5.25	3.08		2.17	18.48		1.09	30.43
Sample Size	1	1	29	17		12	102		6	168
Mean Length	470	512	471	384		598	489		618	488
Std. Error			9	3		13	5		11	4
Sample Size	1	1	29	17		12	102		6	168
Females		1,748	55,934	874	874	8,740	263,063	874	3,496	335,603
Percent		0.36	11.59	0.18	0.18	1.81	54.53	0.18	0.72	69.57
Sample Size		2	64	1	1	10	301	1	4	384
Mean Length		563	473	504	577	553	483	560	501	484
Std. Error		18	3			14	2		15	2
Sample Size		2	64	1	1	10	301	1	4	384
Both Sexes	874	2,622	81,279	15,731	874	19,228	352,208	874	8,740	482,430
Percent	0.18	0.54	16.85	3.26	0.18	3.99	73.01	0.18	1.81	100.00
Sample Size	1	3	93	18	1	22	403	1	10	552
Mean Length	470	546	472	391	577	577	485	560	571	485
Std. Error		18	4	3		9	2		9	2
Sample Size	1	3	93	18	1	22	403	1	10	552

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Table 27. (p 3 of 3)

	Age Group									Total
	1.1	0.3	1.2	2.1	0.4	1.3	2.2	1.4	2.3	
Sample Period 5: July 17 - July 23										
Males			14,882	2,976		2,976	181,564		10,418	212,816
Percent			1.87	0.37		0.37	22.76		1.31	26.68
Sample Size			10	2		2	122		7	143
Mean Length			505	363		562	511		523	510
Std. Error			10	22		32	4		16	4
Sample Size			10	2		2	122		7	143
Females			31,253			8,929	517,902		26,788	584,872
Percent			3.92			1.12	64.93		3.36	73.32
Sample Size			21			6	348		18	393
Mean Length			483			524	492		494	492
Std. Error			4			17	1		6	1
Sample Size			21			6	348		18	393
Both Sexes			46,135	2,976		11,905	699,466		37,206	797,688
Percent			5.78	0.37		1.49	87.69		4.66	100.00
Sample Size			31	2		8	470		25	536
Mean Length			490	363		534	497		502	497
Std. Error			4	22		15	1		6	1
Sample Size			31	2		8	470		25	536
All Periods Combined:										
Males	874	874	385,114	78,789		102,082	2,961,834		78,820	3,608,387
Percent	0.01	0.01	4.62	0.94		1.22	35.52		0.95	43.28
Sample Size	1	1	123	34		36	882		28	1,105
Mean Length	470	512	494	373		593	509		586	508
Std. Error			3	4		6	1		7	1
Sample Size	1	1	123	34		36	882		28	1,105
Females		1,748	426,409	874	874	150,914	4,075,451	874	72,309	4,729,453
Percent		0.02	5.11	0.01	0.01	1.81	48.88	0.01	0.87	56.72
Sample Size		2	168	1	1	49	1,472	1	32	1,726
Mean Length		563	481	504	577	567	495	560	535	497
Std. Error		18	2			5	1		8	1
Sample Size		2	168	1	1	49	1,472	1	32	1,726
Both Sexes	874	2,622	811,523	79,663	874	252,996	7,037,285	874	151,129	8,337,840
Percent	0.01	0.03	9.73	0.96	0.01	3.03	84.40	0.01	1.81	100.00
Sample Size	1	3	291	35	1	85	2,354	1	60	2,831
Mean Length	470	546	487	374	577	577	501	560	562	502
Std. Error		18	2	4		4	1		5	1
Sample Size	1	3	291	35	1	85	2,354	1	60	2,831

Table 28. Age, sex, and size (length in mm and weight in kg) composition of sockeye salmon escapement, Naknek River, 1994.

	Age Group									Total
	0.2	1.1	1.2	2.1	1.3	2.2	1.4	2.3	2.4	
Sample Period 1: June 21 - July 3										
Males	2,040	49,641	10,880	13,600	102,003		21,080	680	199,924	
Percent	0.65	15.90	3.49	4.36	32.68		6.75	0.22	64.05	
Sample Size	3	73	16	20	150		31	1	294	
Mean Length	322	453	358	550	461		564	565	469	
Std. Error	8	3	9	10	2		10		2	
Sample Size	3	73	16	20	150		31	1	294	
Females	680	17,680		21,760	45,562	1,360	25,160		112,202	
Percent	0.22	5.66		6.97	14.60	0.44	8.06		35.95	
Sample Size	1	26		32	67	2	37		165	
Mean Length	561	455		552	479	571	563		510	
Std. Error		6		5	3	18	4		2	
Sample Size	1	26		32	67	2	37		165	
Both Sexes	2,720	67,321	10,880	35,360	147,565	1,360	46,240	680	312,126	
Percent	0.87	21.57	3.49	11.33	47.28	0.44	14.81	0.22	100.00	
Sample Size	4	99	16	52	217	2	68	1	459	
Mean Length	382	453	358	551	467	571	563	565	484	
Std. Error	8	3	9	5	2	18	5		1	
Sample Size	4	99	16	52	217	2	68	1	459	
Sample Period 2: July 4 - July 8										
Males	1,168	37,972	8,763	16,357	61,924		20,447	584	147,215	
Percent	0.38	12.22	2.82	5.26	19.92		6.58	0.19	47.37	
Sample Size	2	65	15	28	106		35	1	252	
Mean Length	315	454	352	554	468		578	607	482	
Std. Error	10	4	4	8	4		3		2	
Sample Size	2	65	15	28	106		35	1	252	
Females	584	30,378	584	31,546	71,856	584	27,457	584	163,573	
Percent	0.19	9.77	0.19	10.15	23.12	0.19	8.83	0.19	52.63	
Sample Size	1	52	1	54	123	1	47	1	280	
Mean Length	450	462	481	535	477	592	557	596	500	
Std. Error		3		5	2		4		2	
Sample Size	1	52	1	54	123	1	47	1	280	
Both Sexes	584	1,168	68,350	9,347	47,903	133,780	584	47,904	1,168	310,788
Percent	0.19	0.38	21.99	3.01	15.41	43.05	0.19	15.41	0.38	100.00
Sample Size	1	2	117	16	82	229	1	82	2	532
Mean Length	450	315	457	360	542	473	592	566	602	491
Std. Error		10	3	4	4	2		3		1
Sample Size	1	2	117	16	82	229	1	82	2	532

- Continued -

Table 28. (p 2 of 2)

	Age Group									Total
	0.2	1.1	1.2	2.1	1.3	2.2	1.4	2.3	2.4	
Sample Period 3: July 9 - July 21										
Males	3,479		40,008	22,613	20,004	60,880	870	21,743	870	170,467
Percent	0.95		10.87	6.15	5.44	16.55	0.24	5.91	0.24	46.34
Sample Size	4		46	26	23	70	1	25	1	196
Mean Length	331		448	346	558	466	590	580	588	470
Std. Error	5		3	4	10	4		5		2
Sample Size	4		46	26	23	70	1	25	1	196
Females			37,398	870	37,398	90,452	870	30,441		197,429
Percent			10.17	0.24	10.17	24.59	0.24	8.27		53.66
Sample Size			43	1	43	104	1	35		227
Mean Length			457	545	534	474	572	552		495
Std. Error			3		5	3		4		2
Sample Size			43	1	43	104	1	35		227
Both Sexes	3,479		77,406	23,483	57,402	151,332	1,740	52,184	870	367,896
Percent	0.95		21.04	6.38	15.60	41.13	0.47	14.18	0.24	100.00
Sample Size	4		89	27	66	174	2	60	1	423
Mean Length	331		452	354	543	471	581	564	588	483
Std. Error	5		2	4	5	2		3		1
Sample Size	4		89	27	66	174	2	60	1	423
All Periods Combined:										
Males	6,687		127,621	42,256	49,961	224,807	870	63,270	2,134	517,606
Percent	0.67		12.88	4.26	5.04	22.69	0.09	6.39	0.22	52.24
Sample Size	9		184	57	71	326	1	91	3	742
Mean Length	326		451	351	555	464	590	574	586	473
Std. Error	4		2	3	6	2		4		1
Sample Size	9		184	57	71	326	1	91	3	742
Females	584	680	85,456	1,454	90,704	207,870	2,814	83,058	584	473,204
Percent	0.06	0.07	8.62	0.15	9.15	20.98	0.28	8.38	0.06	47.76
Sample Size	1	1	121	2	129	294	4	119	1	672
Mean Length	450	561	458	519	539	476	576	557	596	500
Std. Error			2		3	2	18	2		1
Sample Size	1	1	121	2	129	294	4	119	1	672
Both Sexes	584	7,367	213,077	43,710	140,665	432,677	3,684	146,328	2,718	990,810
Percent	0.06	0.74	21.51	4.41	14.20	43.67	0.37	14.77	0.27	100.00
Sample Size	1	10	305	59	200	620	5	210	4	1,414
Mean Length	450	347	454	356	545	470	579	564	588	486
Std. Error		4	1	3	3	1	18	2		1
Sample Size	1	10	305	59	200	620	5	210	4	1,414

Table 29. Age, sex, and size (length in mm and weight in kg) composition of sockeye salmon commercial catch, Egegik District, 1994.

	Age Group											Total
	0.2	0.3	1.2	2.1	1.3	2.2	1.4	2.3	3.2	2.4	3.3	
Sample Period 1: June 6 - June 23												
Males		289	2,457		578	13,731		10,839		289		28,183
Percent		0.53	4.50		1.06	25.13		19.84		0.53		51.59
Sample Size		2	17		4	95		75		2		195
Mean Length		550	499		559	504		566		561		530
Std. Error		5	6		6	3		3		23		2
Sample Size		2	17		4	95		75		2		195
Females			1,590		1,879	6,504		16,475				26,448
Percent			2.91		3.44	11.91		30.16				48.41
Sample Size			11		13	45		114				183
Mean Length			474		537	506		555				537
Std. Error			9		9	4		2				2
Sample Size			11		13	45		114				183
Both Sexes		289	4,047		2,457	20,235		27,314		289		54,631
Percent		0.53	7.41		4.50	37.04		50.00		0.53		100.00
Sample Size		2	28		17	140		189		2		378
Mean Length		550	489		542	505		560		561		533
Std. Error		5	5		7	2		2		23		1
Sample Size		2	28		17	140		189		2		378
Sample Period 2: June 24 - June 25												
Males		317	3,803		2,536	28,208		27,258				62,122
Percent		0.26	3.11		2.07	23.06		22.28				50.78
Sample Size		1	12		8	89		86				196
Mean Length		427	498		541	505		563				531
Std. Error			7		15	3		3				2
Sample Size		1	12		8	89		86				196
Mean Weight					2.73	2.18		3.06				2.62
Std. Error					0.66	0.13		0.10				0.08
Sample Size					2	3		11				16
Females		317	1,585		3,170	20,919		33,913		317		60,221
Percent		0.26	1.30		2.59	17.10		27.72		0.26		49.22
Sample Size		1	5		10	66		107		1		190
Mean Length		552	487		536	494		550		555		529
Std. Error			13		6	4		2				2
Sample Size		1	5		10	65		107		1		189
Mean Weight		2.30	1.81		2.71	1.80		2.70				2.36
Std. Error					0.14	0.07		0.07				0.07
Sample Size		1	1		1	8		13				24
Both Sexes		634	5,388		5,706	49,127		61,171		317		122,343
Percent		0.52	4.40		4.66	40.16		50.00		0.26		100.00
Sample Size		2	17		18	155		193		1		386
Mean Length		490	494		538	501		556		555		530
Std. Error			6		7	2		2				1
Sample Size		2	17		18	154		193		1		385
Mean Weight		2.30	1.81		2.72	2.02		2.86				2.49
Std. Error					0.66	0.10		0.06				0.05
Sample Size		1	1		3	11		24				40

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Table 29. (p 2 of 8)

	Age Group										Total	
	0.2	0.3	1.2	2.1	1.3	2.2	1.4	2.3	3.2	2.4		3.3
Sample Period 3: June 26 - June 27												
Males			6,412	427	2,992	44,888	427	37,192	2,565	1,710		96,613
Percent			3.39	0.23	1.58	23.76	0.23	19.68	1.36	0.90		51.13
Sample Size			15	1	7	105	1	87	6	4		226
Mean Length			518	446	552	519	611	579	523	590		545
Std. Error			9		10	2		4	7	20		2
Sample Size			15	1	7	105	1	87	6	4		226
Mean Weight			1.96			2.15		2.98	2.42	3.58		2.50
Std. Error			0.48			0.09		0.22				0.10
Sample Size			2			6		6	1	1		16
Females			2,992		2,992	22,657		62,416		855	427	92,339
Percent			1.58		1.58	11.99		33.03		0.45	0.23	48.87
Sample Size			7		7	53		146		2	1	216
Mean Length			510		561	505		564		563	558	547
Std. Error			14		10	4		2		17		2
Sample Size			7		7	53		146		2	1	216
Mean Weight			1.78			2.00		2.44				2.30
Std. Error						0.26		0.08				0.09
Sample Size			1			5		20				26
Both Sexes			9,404	427	5,984	67,545	427	99,608	2,565	2,565	427	188,952
Percent			4.98	0.23	3.17	35.75	0.23	52.72	1.36	1.36	0.23	100.00
Sample Size			22	1	14	158	1	233	6	6	1	442
Mean Length			516	446	556	515	611	569	523	581	558	546
Std. Error			8		7	2		2	7	14		1
Sample Size			22	1	14	158	1	233	6	6	1	442
Mean Weight			1.90			2.10		2.64	2.42	3.58		2.41
Std. Error			0.48			0.11		0.10				0.07
Sample Size			3			11		26	1	1		42
Sample Period 4: June 28 - June 29												
Males			6,390		1,389	40,840		28,059	833		278	77,789
Percent			4.22		0.92	26.97		18.53	0.55		0.18	51.38
Sample Size			23		5	147		101	3		1	280
Mean Length			505		553	517		581	504		560	540
Std. Error			4		21	2		3	16			2
Sample Size			23		5	147		101	3		1	280
Mean Weight			1.70		2.77	2.14		2.92	2.35			2.40
Std. Error			0.16		0.79	0.07		0.09				0.05
Sample Size			5		2	27		18	1			53
Females			2,778		2,778	20,558	278	46,118		278	833	73,621
Percent			1.83		1.83	13.58	0.18	30.46		0.18	0.55	48.62
Sample Size			10		10	74	1	166		1	3	265
Mean Length			498		552	506	609	563		539	553	544
Std. Error			9		10	2		1			9	1
Sample Size			10		10	74	1	166		1	3	265
Mean Weight			1.44			1.96	3.23	2.47				2.28
Std. Error			0.21			0.12		0.08				0.06
Sample Size			2			12	1	24				39
Both Sexes			9,168		4,167	61,398	278	74,177	833	278	1,111	151,410
Percent			6.06		2.75	40.55	0.18	48.99	0.55	0.18	0.73	100.00
Sample Size			33		15	221	1	267	3	1	4	545
Mean Length			503		553	513	609	569	504	539	555	542
Std. Error			4		10	2		1	16		9	1
Sample Size			33		15	221	1	267	3	1	4	545
Mean Weight			1.62		2.77	2.08	3.23	2.64	2.35			2.34
Std. Error			0.13		0.79	0.06		0.06				0.04
Sample Size			7		2	39	1	42	1			92

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Table 29. (p 3 of 8)

	Age Group											Total
	0.2	0.3	1.2	2.1	1.3	2.2	1.4	2.3	3.2	2.4	3.3	
Sample Period 5: June 30 - July 1												
Males		15,304			3,826	142,520		93,738	4,783			260,171
Percent		3.12			0.78	29.04		19.10	0.97			53.02
Sample Size		16			4	149		98	5			272
Mean Length		508			595	521		585	529			544
Std. Error		6			18	2		3	5			2
Sample Size		16			4	149		98	5			272
Mean Weight		1.78				2.78		4.65	1.96			3.39
Std. Error		0.08				0.74		1.78	0.06			0.77
Sample Size		4				27		17	2			50
Females		5,739			12,435	63,130		148,258	957			230,519
Percent		1.17			2.53	12.87		30.21	0.20			46.98
Sample Size		6			13	66		155	1			241
Mean Length		505			567	516		566	473			550
Std. Error		4			3	3		2				1
Sample Size		6			13	66		155	1			241
Mean Weight		1.82				1.97		2.49				2.32
Std. Error						0.11		0.06				0.05
Sample Size		1				14		30				45
Both Sexes		21,043			16,261	205,650		241,996	5,740			490,690
Percent		4.29			3.31	41.91		49.32	1.17			100.00
Sample Size		22			17	215		253	6			513
Mean Length		507			574	519		573	520			547
Std. Error		5			5	2		1	5			1
Sample Size		22			17	215		253	6			513
Mean Weight		1.79				2.53		3.33	1.96			2.90
Std. Error		0.08				0.52		0.69	0.06			0.42
Sample Size		5				41		47	2			95
Sample Period 6: July 2												
Males		30,013			24,556	354,703		341,059	13,642	2,728	2,728	769,429
Percent		2.06			1.68	24.30		23.36	0.93	0.19	0.19	52.71
Sample Size		11			9	130		125	5	1	1	282
Mean Length		498			585	523		584	513	600	576	551
Std. Error		6			9	2		2	10			1
Sample Size		11			9	130		125	5	1	1	282
Mean Weight		1.89			3.52	2.02		3.20	1.85			2.59
Std. Error		0.05			0.16	0.06		0.09	0.16			0.05
Sample Size		3			2	13		20	3			41
Females		21,828			32,742	237,377		387,443	5,457	2,728	2,728	690,303
Percent		1.50			2.24	16.26		26.54	0.37	0.19	0.19	47.29
Sample Size		8			12	87		142	2	1	1	253
Mean Length		495			539	509		564	519	586	556	542
Std. Error		5			6	2		2	9			1
Sample Size		8			12	87		142	2	1	1	253
Mean Weight		1.66			2.42	1.95		2.67				2.37
Std. Error		0.12			0.27	0.10		0.07				0.05
Sample Size		3			2	11		34				50
Both Sexes		51,841			57,298	592,080		728,502	19,099	5,456	5,456	1,459,732
Percent		3.55			3.93	40.56		49.91	1.31	0.37	0.37	100.00
Sample Size		19			21	217		267	7	2	2	535
Mean Length		497			558	517		574	514	593	566	547
Std. Error		4			5	2		1	8			1
Sample Size		19			21	217		267	7	2	2	535
Mean Weight		1.79			2.89	1.99		2.92	1.85			2.49
Std. Error		0.06			0.17	0.06		0.06	0.16			0.04
Sample Size		6			4	24		54	3			91

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Table 29. (p 4 of 8)

	Age Group										Total	
	0.2	0.3	1.2	2.1	1.3	2.2	1.4	2.3	3.2	2.4		3.3
Sample Period 7: July 3 - July 4												
Males			10,042	837	2,511	105,440	837	83,684	7,532	837		211,720
Percent			2.19	0.18	0.55	22.95	0.18	18.22	1.64	0.18		46.08
Sample Size			12	1	3	126	1	100	9	1		253
Mean Length			504	386	528	510	605	571	512	591		534
Std. Error			11		34	2		2	10			2
Sample Size			12	1	3	125	1	98	9	1		250
Mean Weight					1.59	1.92		2.93	1.77			2.33
Std. Error						0.08		0.16	0.05			0.08
Sample Size						1	20	14	4			39
Females			837		3,347	87,031		148,956	5,858	1,674		247,703
Percent			0.18		0.73	18.94		32.42	1.28	0.36		53.92
Sample Size			1		4	104		178	7	2		296
Mean Length			495		538	499		555	537	560		535
Std. Error					10	3		2	15	9		2
Sample Size			1		4	104		176	7	2		294
Mean Weight						1.74		2.71	2.03	2.57		2.35
Std. Error						0.05		0.06	0.17			0.04
Sample Size						22		29	3	1		55
Both Sexes			10,879	837	5,858	192,471	837	232,640	13,390	2,511		459,423
Percent			2.37	0.18	1.28	41.89	0.18	50.64	2.91	0.55		100.00
Sample Size			13	1	7	230	1	278	16	3		549
Mean Length			504	386	534	505	605	561	523	570		534
Std. Error			11		16	2		2	9	9		1
Sample Size			13	1	7	229	1	274	16	3		544
Mean Weight					1.59	1.84		2.79	1.88	2.57		2.34
Std. Error						0.05		0.07	0.08			0.04
Sample Size					1	42		43	7	1		94
Sample Period 8: July 5												
Males			24,558		12,279	252,592		161,379	5,262	1,754	1,754	459,578
Percent			2.58		1.29	26.57		16.97	0.55	0.18	0.18	48.34
Sample Size			14		7	144		92	3	1	1	262
Mean Length			504		556	521		577	509	621	634	541
Std. Error			5		16	2		3	7			2
Sample Size			14		7	143		92	3	1	1	261
Mean Weight			1.89			1.99		2.97	1.81			2.34
Std. Error			0.25			0.07		0.17				0.08
Sample Size			2			13		3	1			19
Females			12,279		19,295	175,411		278,905	5,262			491,152
Percent			1.29		2.03	18.45		29.34	0.55			51.66
Sample Size			7		11	100		159	3			280
Mean Length			491		570	510		566	519			544
Std. Error			8		5	3		2	4			2
Sample Size			7		11	100		159	3			280
Mean Weight			1.43			1.99		2.57				2.32
Std. Error			0.03			0.10		0.11				0.07
Sample Size			3			9		15				27
Both Sexes			36,837		31,574	428,003		440,284	10,524	1,754	1,754	950,730
Percent			3.87		3.32	45.02		46.31	1.11	0.18	0.18	100.00
Sample Size			21		18	244		251	6	1	1	542
Mean Length			499		565	516		570	514	621	634	542
Std. Error			4		7	2		2	4			1
Sample Size			21		18	243		251	6	1	1	541
Mean Weight			1.74			1.99		2.72	1.81			2.33
Std. Error			0.17			0.06		0.09				0.05
Sample Size			5			22		18	1			46

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Table 29. (p 5 of 8)

	Age Group										Total	
	0.2	0.3	1.2	2.1	1.3	2.2	1.4	2.3	3.2	2.4		3.3
Sample Period 9: July 6 - July 7												
Males			37,123		40,498	496,101		293,610	13,499			880,831
Percent			2.03		2.21	27.07		16.02	0.74			48.07
Sample Size			11		12	147		87	4			261
Mean Length			506		582	521		589	528			546
Std. Error			4		13	2		3	10			2
Sample Size			11		12	147		87	4			261
Mean Weight			1.69			1.99		3.13	1.88			2.37
Std. Error						0.09		0.16				0.08
Sample Size			1			11		5	1			18
Females	3,375		23,624		50,622	283,486		573,721	6,750	6,750	3,375	951,703
Percent	0.18		1.29		2.76	15.47		31.31	0.37	0.37	0.18	51.93
Sample Size	1		7		15	84		170	2	2	1	282
Mean Length	497		503		554	510		568	511	582	573	548
Std. Error			6		4	2		2	6	10		1
Sample Size	1		7		15	84		170	2	2	1	282
Mean Weight	1.77				2.91	1.84		2.27	1.74			2.17
Std. Error					0.06	0.08		0.15	0.18			0.10
Sample Size	1				2	12		8	2			25
Both Sexes	3,375		60,747		91,120	779,587		867,331	20,249	6,750	3,375	1,832,534
Percent	0.18		3.31		4.97	42.54		47.33	1.10	0.37	0.18	100.00
Sample Size	1		18		27	231		257	6	2	1	543
Mean Length	497		505		566	517		575	522	582	573	547
Std. Error			4		6	1		2	7	10		1
Sample Size	1		18		27	231		257	6	2	1	543
Mean Weight	1.77		1.69		2.91	1.94		2.56	1.83			2.27
Std. Error					0.06	0.06		0.11	0.18			0.06
Sample Size	1		1		2	23		13	3			43
Sample Period 10: July 8 - July 9												
Males			14,174		14,174	430,887		192,766	19,844		2,835	674,680
Percent			0.92		0.92	27.94		12.50	1.29		0.18	43.75
Sample Size			5		5	152		68	7		1	238
Mean Length			505		579	514		575	501		598	532
Std. Error			12		7	2		3	7			2
Sample Size			5		5	152		68	7		1	238
Mean Weight			1.38			2.15		2.98				2.38
Std. Error						0.07		0.18				0.07
Sample Size			1			27		12				40
Females			19,844		25,513	405,374		379,862	25,513		11,339	867,445
Percent			1.29		1.65	26.29		24.63	1.65		0.74	56.25
Sample Size			7		9	143		134	9		4	306
Mean Length			492		556	502		558	494		559	528
Std. Error			5		6	2		2	3		14	1
Sample Size			7		9	143		134	9		4	306
Mean Weight			1.71		2.76	1.88		2.66	1.89			2.25
Std. Error			0.11		0.21	0.06		0.09				0.05
Sample Size			2		3	26		21	1			53
Both Sexes			34,018		39,687	836,261		572,628	45,357		14,174	1,542,125
Percent			2.21		2.57	54.23		37.13	2.94		0.92	100.00
Sample Size			12		14	295		202	16		5	544
Mean Length			497		564	508		564	497		567	530
Std. Error			6		5	1		2	4		14	1
Sample Size			12		14	295		202	16		5	544
Mean Weight			1.57		2.76	2.02		2.77	1.89			2.31
Std. Error			0.11		0.21	0.05		0.09				0.04
Sample Size			3		3	53		33	1			93

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Table 29. (p 6 of 8)

	Age Group											Total
	0.2	0.3	1.2	2.1	1.3	2.2	1.4	2.3	3.2	2.4	3.3	
Sample Period 11: July 10 - July 11												
Males			10,439	1,160	11,599	129,908		189,064	8,119		1,160	351,449
Percent			1.26	0.14	1.40	15.66		22.80	0.98		0.14	42.38
Sample Size			9	1	10	112		163	7		1	303
Mean Length			488		583	523		564	507		513	544
Std. Error			11		19	3		4	18			3
Sample Size			9		7	83		96	5		1	201
Mean Weight			1.61		3.40	1.99		3.46	1.67			2.81
Std. Error			0.16		0.10	0.07		0.11	0.28			0.07
Sample Size			3		3	18		22	2			48
Females			10,439		20,878	233,139		198,342	12,759	1,160	1,160	477,877
Percent			1.26		2.52	28.11		23.92	1.54	0.14	0.14	57.62
Sample Size			9		18	201		171	11	1	1	412
Mean Length			516		550	508		553	512	544	570	529
Std. Error			23		7	2		3	13			2
Sample Size			7		16	157		134	9	1	1	325
Mean Weight					2.64	1.84		2.67	1.99			2.23
Std. Error					0.23	0.05		0.06	0.21			0.04
Sample Size					3	39		34	4			80
Both Sexes			20,878	1,160	32,477	363,047		387,406	20,878	1,160	2,320	829,326
Percent			2.52	0.14	3.92	43.78		46.71	2.52	0.14	0.28	100.00
Sample Size			18		28	313		334	18	1	2	714
Mean Length			502		562	513		558	510	544	542	536
Std. Error			13		8	2		2	11			2
Sample Size			16		23	240		230	14	1	2	526
Mean Weight			1.61		2.91	1.89		3.06	1.87			2.48
Std. Error			0.16		0.15	0.04		0.06	0.17			0.04
Sample Size			3		6	57		56	6			128
Sample Period 12: July 12												
Males			1,760		6,158	70,381		78,299	4,399	880		161,877
Percent			0.40		1.40	16.00		17.80	1.00	0.20		36.80
Sample Size			2		7	80		89	5	1		184
Mean Length			519		572	515		577	515	604		547
Std. Error			15		11	3		3	13			2
Sample Size			2		7	80		87	5	1		182
Mean Weight					1.49	1.85		2.84	2.44	3.60		2.35
Std. Error						0.13		0.23				0.13
Sample Size					1	5		8	1	1		16
Females			3,519		11,437	137,243	880	119,648	3,519		1,760	278,006
Percent			0.80		2.60	31.20	0.20	27.20	0.80		0.40	63.20
Sample Size			4		13	156	1	136	4		2	316
Mean Length			502		545	501	566	558	500		577	528
Std. Error			5		6	2		4	7		4	2
Sample Size			4		13	156	1	134	4		2	314
Mean Weight						1.72		2.34				2.01
Std. Error						0.06		0.18				0.09
Sample Size						20		7				27
Both Sexes			5,279		17,595	207,624	880	197,947	7,918	880	1,760	439,883
Percent			1.20		4.00	47.20	0.20	45.00	1.80	0.20	0.40	100.00
Sample Size			6		20	236	1	225	9	1	2	500
Mean Length			508		554	506	566	565	508	604	577	535
Std. Error			6		5	1		3	8		4	1
Sample Size			6		20	236	1	221	9	1	2	496
Mean Weight					1.49	1.76		2.54	2.44	3.60		2.14
Std. Error						0.06		0.14				0.07
Sample Size					1	25		15	1	1		43

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Table 29. (p 7 of 8)

	Age Group											Total
	0.2	0.3	1.2	2.1	1.3	2.2	1.4	2.3	3.2	2.4	3.3	
Sample Period 13: July 13 - July 14												
Males			7,717		13,330	94,712		78,576	2,806			197,141
Percent			2.21		3.82	27.11		22.49	0.80			56.43
Sample Size			11		19	135		112	4			281
Mean Length			503		564	529		589	500			554
Std. Error			10		7	2		2	18			2
Sample Size			11		19	135		112	4			281
Mean Weight			2.46		2.94	2.39		3.04	1.88			2.68
Std. Error			0.40		0.28	0.16		0.01				0.08
Sample Size			2		3	8		3	1			17
Females	702		4,911		13,330	57,529		75,066			702	152,240
Percent	0.20		1.41		3.82	16.47		21.49			0.20	43.57
Sample Size	1		7		19	82		107			1	217
Mean Length	532		487		557	506		562			540	538
Std. Error			8		4	2		2				2
Sample Size	1		7		19	82		107			1	217
Mean Weight	2.56		1.90			1.77		2.67				2.27
Std. Error			0.32			0.08		0.15				0.09
Sample Size	1		2			12		10				25
Both Sexes	702	12,628			26,660	152,241		153,642	2,806		702	349,381
Percent	0.20	3.61			7.63	43.57		43.98	0.80		0.20	100.00
Sample Size	1	18			38	217		219	4		1	498
Mean Length	532	497			561	520		575	500		540	547
Std. Error			7		4	2		2	18			1
Sample Size	1	18			38	217		219	4		1	498
Mean Weight	2.56	2.24			2.94	2.16		2.86	1.88			2.51
Std. Error			0.28		0.28	0.11		0.08				0.06
Sample Size	1	4			3	20		13	1			42
Sample Period 14: July 15 - July 17												
Males					15,395	223,221		213,601	15,395		3,849	471,461
Percent					1.54	22.26		21.31	1.54		0.38	47.02
Sample Size					8	116		111	8		2	245
Mean Length					573	520		579	526		547	549
Std. Error					10	2		2	9		13	2
Sample Size					7	116		111	8		2	244
Mean Weight					3.08	2.36		3.04				2.71
Std. Error						0.10		0.12				0.07
Sample Size					1	19		22				42
Females					23,092	198,206		284,802	15,395	1,924	7,697	531,116
Percent					2.30	19.77		28.41	1.54	0.19	0.77	52.98
Sample Size					12	103		148	8	1	4	276
Mean Length					553	503		559	499	589	539	536
Std. Error					6	2		2	8		10	1
Sample Size					12	103		148	8	1	4	276
Mean Weight					2.57	1.97		2.67	2.22	3.06		2.39
Std. Error					0.14	0.10		0.05				0.05
Sample Size					4	10		29	1	1		45
Both Sexes					38,487	421,427		498,403	30,790	1,924	11,546	1,002,577
Percent					3.84	42.03		49.71	3.07	0.19	1.15	100.00
Sample Size					20	219		259	16	1	6	521
Mean Length					561	512		568	512	589	542	542
Std. Error					5	1		1	6		8	1
Sample Size					19	219		259	16	1	6	520
Mean Weight					2.77	2.18		2.83	2.22	3.06		2.54
Std. Error					0.14	0.07		0.06				0.04
Sample Size					5	29		51	1	1		87

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Table 29. (p 8 of 8)

	Age Group										Total	
	0.2	0.3	1.2	2.1	1.3	2.2	1.4	2.3	3.2	2.4		3.3
Sample Period 15: July 18 - August 26												
Males			5,344		16,033	172,801		181,710	16,033	1,781	3,563	397,265
Percent			0.61		1.83	19.72		20.73	1.83	0.20	0.41	45.33
Sample Size			3		9	97		102	9	1	2	223
Mean Length			534		587	524		579	513	558	592	552
Std. Error			28		8	3		3	5		3	2
Sample Size			3		9	95		101	9	1	2	220
Mean Weight			2.09			2.29		3.09	2.22			2.67
Std. Error			0.01			0.08		0.16	0.21			0.08
Sample Size			2			17		14	4			37
Females					19,596	224,464		220,900	8,907		5,344	479,211
Percent					2.24	25.61		25.20	1.02		0.61	54.67
Sample Size					11	126		124	5		3	269
Mean Length					550	502		563	504		562	533
Std. Error					4	2		2	5		13	1
Sample Size					11	125		123	5		3	267
Mean Weight					2.68	1.84		2.68	1.79			2.27
Std. Error					0.25	0.05		0.08	0.13			0.05
Sample Size					3	28		22	3			56
Both Sexes			5,344		35,629	397,265		402,610	24,940	1,781	8,907	876,476
Percent			0.61		4.07	45.33		45.94	2.85	0.20	1.02	100.00
Sample Size			3		20	223		226	14	1	5	492
Mean Length			534		567	511		570	510	558	574	542
Std. Error			28		4	2		2	4		8	1
Sample Size			3		20	220		224	14	1	5	487
Mean Weight			2.09		2.68	2.04		2.87	2.07			2.44
Std. Error			0.01		0.25	0.04		0.08	0.14			0.05
Sample Size			2		3	45		36	7			93
All Periods Combined:												
Males	606	175,536	2,424		167,854	2,600,933	1,264	2,010,834	114,712	9,979	16,167	5,100,309
Percent	0.01	1.63	0.02		1.56	24.19	0.01	18.71	1.07	0.09	0.15	47.44
Sample Size	3	161	3		117	1,824	2	1,496	75	11	9	3,701
Mean Length	486	504	212		576	520	607	579	514	593	578	545
Std. Error	5	2			4	1		1	3	17	7	1
Sample Size	3	161	2		113	1,791	2	1,424	73	11	9	3,589
Mean Weight		1.80			3.05	2.13		3.17	1.97	3.59		2.56
Std. Error		0.07			0.11	0.05		0.09	0.09			0.05
Sample Size		25			15	214		175	21	2		452
Females	3,375	1,019	111,965		243,106	2,173,028	1,158	2,974,825	90,377	15,686	35,365	5,649,904
Percent	0.03	0.01	1.04		2.26	20.21	0.01	27.67	0.84	0.15	0.33	52.56
Sample Size	1	2	89		177	1,490	2	2,157	52	11	21	4,002
Mean Length	497	538	498		552	505	576	562	505	576	557	538
Std. Error			3		2	1		1	3	8	7	0
Sample Size	1	2	87		175	1,444	2	2,115	50	11	21	3,908
Mean Weight	1.77	2.48	1.66		2.69	1.88	3.23	2.55	1.96	2.83		2.27
Std. Error			0.06		0.08	0.03		0.04	0.10			0.02
Sample Size	1	2	15		18	228	1	296	14	2		577
Both Sexes	3,375	1,625	287,501	2,424	410,960	4,773,961	2,422	4,985,659	205,089	25,665	51,532	10,750,213
Percent	0.03	0.02	2.67	0.02	3.82	44.41	0.02	46.38	1.91	0.24	0.48	100.00
Sample Size	1	5	250	2	294	3,314	4	3,653	127	22	30	7,702
Mean Length	497	519	502	406	562	513	592	569	510	583	564	541
Std. Error		5	2		2	0		1	2	7	6	0
Sample Size	1	5	248	2	288	3,235	4	3,539	123	22	30	7,497
Mean Weight	1.77	2.48	1.76		2.80	2.02	3.23	2.80	1.96	3.15		2.41
Std. Error			0.05		0.06	0.03		0.04	0.07			0.02
Sample Size	1	2	40		33	442	1	471	35	4		1,029

Table 30. Age, sex and size (length in mm and weight in kg) composition of sockeye salmon escapement, Egegik River, 1994.

	Age Group												Total
	0.2	1.1	1.2	2.1	1.3	2.2	3.1	1.4	2.3	3.2	2.4	3.3	
Sample Period 1: June 22 - June 27													
Males		6,896	5,555	766	39,074	192		22,794	575				75,852
Percent		5.45	4.39	0.60	30.86	0.15		18.00	0.45				59.91
Sample Size		36	29	4	204	1		119	3				396
Mean Length		489	361	579	482	353		576	506				503
Std. Error		6	5	8	3			3	6				2
Sample Size		36	29	4	204	1		119	3				396
Females		2,682	383	958	20,112			26,241	192	192			50,760
Percent		2.12	0.30	0.76	15.88			20.73	0.15	0.15			40.09
Sample Size		14	2	5	105			137	1	1			265
Mean Length		457	439	535	484			557	515	571			522
Std. Error		8	17	14	3			2					2
Sample Size		14	2	5	105			137	1	1			265
Both Sexes		9,578	5,938	1,724	59,186	192		49,035	767	192			126,612
Percent		7.56	4.69	1.36	46.75	0.15		38.73	0.61	0.15			100.00
Sample Size		50	31	9	309	1		256	4	1			661
Mean Length		480	366	555	483	353		566	508	571			510
Std. Error		5	5	9	2			2	6				1
Sample Size		50	31	9	309	1		256	4	1			661
Sample Period 2: June 28 - July 1													
Males	296	3,844	7,985	739	24,250			14,047	148				51,309
Percent	0.36	4.63	9.61	0.89	29.18			16.90	0.18				61.74
Sample Size	2	26	54	5	164			95	1				347
Mean Length	323	478	358	567	489			572	450				491
Std. Error	15	9	4	13	2			3					2
Sample Size	2	26	54	5	164			95	1				347
Females		1,331	296	296	15,081			14,343	148	148	148		31,791
Percent		1.60	0.36	0.36	18.15			17.26	0.18	0.18	0.18		38.26
Sample Size		9	2	2	102			97	1	1	1		215
Mean Length		477	387	578	490			555	518	575	553		520
Std. Error		9	34	29	3			2					2
Sample Size		9	2	2	102			97	1	1	1		215
Both Sexes	296	5,175	8,281	1,035	39,331			28,390	296	148	148		83,100
Percent	0.36	6.23	9.97	1.25	47.33			34.16	0.36	0.18	0.18		100.00
Sample Size	2	35	56	7	266			192	2	1	1		562
Mean Length	323	477	359	570	490			564	484	575	553		502
Std. Error	15	7	4	13	2			2					1
Sample Size	2	35	56	7	266			192	2	1	1		562

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Table 30. (p 2 of 4)

	Age Group												Total
	0.2	1.1	1.2	2.1	1.3	2.2	3.1	1.4	2.3	3.2	2.4	3.3	
Sample Period 3: July 2 - July 6													
Males			23,441	17,860	2,232	128,367		1,116	68,090	5,581	2,232		248,919
Percent			3.78	2.88	0.36	20.72		0.18	10.99	0.90	0.36		40.18
Sample Size			21	16	2	115		1	61	5	2		223
Mean Length			475	371	508	487		542	581	514	591		505
Std. Error			8	7	31	3			4	5	4		2
Sample Size			21	16	2	115		1	61	5	2		223
Females			21,208	1,116		248,919			92,647	4,465	1,116	1,116	370,587
Percent			3.42	0.18		40.18			14.95	0.72	0.18	0.18	59.82
Sample Size			19	1		223			83	4	1	1	332
Mean Length			479	502		488			556	479	584	586	505
Std. Error			5			2			4	6			1
Sample Size			19	1		223			83	4	1	1	332
Both Sexes			44,649	18,976	2,232	377,286		1,116	160,737	10,046	3,348	1,116	619,506
Percent			7.21	3.06	0.36	60.90		0.18	25.95	1.62	0.54	0.18	100.00
Sample Size			40	17	2	338		1	144	9	3	1	555
Mean Length			477	378	508	488		542	567	498	588	586	505
Std. Error			5	7	31	2			3	4	4		1
Sample Size			40	17	2	338		1	144	9	3	1	555
Sample Period 4: July 7 - July 9													
Males			7,158	10,339	1,591	101,800			76,350	4,772			202,010
Percent			1.41	2.03	0.31	20.03			15.02	0.94			39.75
Sample Size			9	13	2	128			96	6			254
Mean Length			489	383	562	494			583	472			522
Std. Error			8	13	17	3			3	8			2
Sample Size			9	13	2	128			96	6			254
Females	795		19,088	795	5,567	206,781			65,216	6,363		1,591	306,196
Percent	0.16		3.76	0.16	1.10	40.69			12.83	1.25		0.31	60.25
Sample Size	1		24	1	7	260			82	8		2	385
Mean Length	474		479	490	556	488			559	488		575	504
Std. Error			4		2	1			3	4		25	1
Sample Size	1		24	1	7	260			82	8		2	385
Both Sexes	795		26,246	11,134	7,158	308,581			141,566	11,135		1,591	508,206
Percent	0.16		5.16	2.19	1.41	60.72			27.86	2.19		0.31	100.00
Sample Size	1		33	14	9	388			178	14		2	639
Mean Length	474		482	391	558	490			572	481		575	511
Std. Error			4	13	4	1			2	4		25	1
Sample Size	1		33	14	9	388			178	14		2	639

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Table 30. (p 3 of 4)

	Age Group											Total	
	0.2	1.1	1.2	2.1	1.3	2.2	3.1	1.4	2.3	3.2	2.4		3.3
Sample Period 5: July 10 - July 12													
Males			4,273	9,020	950	47,475	475		29,910	1,424			93,527
Percent			1.50	3.16	0.33	16.61	0.17		10.47	0.50			32.72
Sample Size			9	19	2	100	1		63	3			197
Mean Length			536	370	590	495	364		586	515			515
Std. Error			31	9	15	4			4	26			3
Sample Size			9	19	2	100	1		63	3			197
Females			6,647	950	475	150,022			28,011	5,697		475	192,277
Percent			2.33	0.33	0.17	52.49			9.80	1.99		0.17	67.28
Sample Size			14	2	1	316			59	12		1	405
Mean Length			472	515	525	486			565	489		542	498
Std. Error			6	65		1			4	4			1
Sample Size			14	2	1	315			59	12		1	404
Both Sexes			10,920	9,970	1,425	197,497	475		57,921	7,121		475	285,804
Percent			3.82	3.49	0.50	69.10	0.17		20.27	2.49		0.17	100.00
Sample Size			23	21	3	416	1		122	15		1	602
Mean Length			497	384	568	488	364		576	494		542	503
Std. Error			13	10	15	1			3	6			1
Sample Size			23	21	3	415	1		122	15		1	601
Sample Period 6: July 13 - July 21													
Males		742	2,227	8,538	1,114	51,229	371		21,902	3,341			89,464
Percent		0.27	0.81	3.11	0.41	18.65	0.14		7.97	1.22			32.57
Sample Size		2	6	23	3	138	1		59	9			241
Mean Length		336	455	403	587	490	432		581	482			502
Std. Error		10	15	23	6	4			7	9			4
Sample Size		2	6	23	3	138	1		59	9			241
Females			7,424		371	153,687			12,250	11,137	371		185,240
Percent			2.70		0.14	55.95			4.46	4.05	0.14		67.43
Sample Size			20		1	414			33	30	1		499
Mean Length			466		504	485			550	484	601		489
Std. Error			4			2			6	3			1
Sample Size			20		1	414			33	30	1		499
Both Sexes		742	9,651	8,538	1,485	204,916	371		34,152	14,478	371		274,704
Percent		0.27	3.51	3.11	0.54	74.60	0.14		12.43	5.27	0.14		100.00
Sample Size		2	26	23	4	552	1		92	39	1		740
Mean Length		336	464	403	567	486	432		570	483	601		493
Std. Error		10	5	23	6	1			5	3			1
Sample Size		2	26	23	4	552	1		92	39	1		740

- Continued -

Table 30. (p 4 of 4)

	Age Group											Total ^a	
	0.2	1.1	1.2	2.1	1.3	2.2	3.1	1.4	2.3	3.2	2.4		3.3
All Periods Combined:													
Males	1,038	47,839	59,297	7,392	392,195	1,038	1,116	233,093	15,841	2,232			761,081
Percent	0.05	2.52	3.12	0.39	20.66	0.05	0.06	12.28	0.83	0.12			40.10
Sample Size	4	107	154	18	849	3	1	493	27	2			1,658
Mean Length	332	484	375	555	490	386	542	581	494	591			509
Std. Error	8	5	5	10	2			2	4	4			1
Sample Size	4	107	154	18	849	3	1	493	27	2			1,658
Females	795	58,380	3,540	7,667	794,602			238,708	28,002	1,827	3,330	1,136,851	
Percent	0.04	3.08	0.19	0.40	41.87			12.58	1.48	0.10	0.18	59.90	
Sample Size	1	100	8	16	1,420			491	56	4	5	2,101	
Mean Length	474	476	486	550	487			558	485	585	573	502	
Std. Error		2	39	3	1			2	2		25	1	
Sample Size	1	100	8	16	1,419			491	56	4	5	2,100	
Both Sexes	795	1,038	106,219	62,837	15,059	1,186,797	1,038	1,116	471,801	43,843	4,059	3,330	1,897,932
Percent	0.04	0.05	5.60	3.31	0.79	62.53	0.05	0.06	24.86	2.31	0.21	0.18	100.00
Sample Size	1	4	207	162	34	2,269	3	1	984	83	6	5	3,759
Mean Length	474	332	479	381	553	488	386	542	569	488	588	573	505
Std. Error		8	3	5	6	1			1	2	4	25	1
Sample Size	1	4	207	162	34	2,268	3	1	984	83	6	5	3,758

^a Total does not include an estimated 66,132 sockeye salmon counted, from July 22 to September 11, during a USF&WS coho project, and escapement to Shosky Creek (15) and King Salmon River (30).

Table 31. Age, sex, and size (length in mm and weight in kg) composition of sockeye salmon commercial catch, Ugashik District, 1994.

	Age Group										Total	
	0.2	0.3	1.2	2.1	1.3	2.2	1.4	2.3	3.2	2.4		3.3
Sample Period 1: June 6 - July 1												
Males	201	1,610	9,659		6,640	20,325	201	19,921	402		201	59,160
Percent	0.18	1.45	8.73		6.00	18.36	0.18	18.00	0.36		0.18	53.45
Sample Size	1	8	48		33	101	1	99	2		1	294
Mean Length	513	574	506		558	516	617	574	498			539
Std. Error		11	5		10	4		4	2			2
Sample Size	1	6	28		19	66	1	60	2			183
Mean Weight	2.44	3.31			3.21	2.04		3.17				2.71
Std. Error		0.15			0.48	0.17		0.12				0.11
Sample Size	1	2			3	5		4				15
Females		1,207	4,628		6,037	9,458	201	29,581		201	201	51,514
Percent		1.09	4.18		5.45	8.55	0.18	26.73		0.18	0.18	46.55
Sample Size		6	23		30	47	1	147		1	1	256
Mean Length		531	522		564	510		554				537
Std. Error		18	9		5	5		2				2
Sample Size		3	15		22	39		110				189
Mean Weight		2.82	2.20		2.62	1.97		2.58				2.44
Std. Error			0.18		0.18	0.12		0.05				0.05
Sample Size		1	2		4	4		19				30
Both Sexes	201	2,817	14,287		12,677	29,783	402	49,502	402	201	402	110,674
Percent	0.18	2.55	12.91		11.45	26.91	0.36	44.73	0.36	0.18	0.36	100.00
Sample Size	1	14	71		63	148	2	246	2			547
Mean Length	513	556	511		561	514	617	562	498			542
Std. Error		10	4		5	3		2	2			1
Sample Size	1	9	43		41	105	1	170	2			372
Mean Weight	2.44	3.10	2.20		2.93	2.02		2.82				2.57
Std. Error		0.15	0.18		0.27	0.12		0.06				0.06
Sample Size	1	3	2		7	9		23				45
Sample Period 2: July 2 - July 3												
Males		901	5,767		3,424	9,010		12,435		360		31,897
Percent		1.38	8.84		5.25	13.81		19.06		0.55		48.90
Sample Size		5	32		19	50		69		2		177
Females		541	4,145	180	4,505	9,911		13,696	180	180		33,338
Percent		0.83	6.35	0.28	6.91	15.19		20.99	0.28	0.28		51.10
Sample Size		3	23	1	25	55		76	1	1		185
Both Sexes		1,442	9,912	180	7,929	18,921		26,131	180	540		65,235
Percent		2.21	15.19	0.28	12.15	29		40.06	0.28	0.83		100.00
Sample Size		8	55	1	44	105		145	1	3		362

- Continued -

Table 31. (p 2 of 5)

	Age Group										Total	
	0.2	0.3	1.2	2.1	1.3	2.2	1.4	2.3	3.2	2.4		3.3
Sample Period 3: July 4 - July 6												
Males		1,850	17,572		10,173	49,942	925	78,611	925	1,850	925	162,773
Percent		0.54	5.16		2.99	14.67	0.27	23.10	0.27	0.54	0.27	47.83
Sample Size		2	19		11	54	1	85	1	2	1	176
Mean Length			516		596	517		594		624		545
Std. Error			7			6		5				3
Sample Size			9		1	16		18		1		45
Females	925	1,850	19,422		22,196	36,069	925	93,409		2,775		177,571
Percent	0.27	0.54	5.71		6.52	10.60	0.27	27.45		0.82		52.17
Sample Size	1	2	21		24	39	1	101		3		192
Mean Length		594	497		543	544	603	568				541
Std. Error			7			15		3				3
Sample Size		1	2		1	6	1	35				46
Both Sexes	925	3,700	36,994		32,369	86,011	1,850	172,020	925	4,625	925	340,344
Percent	0.27	1.09	10.87		9.51	25.27	0.54	50.54	0.27	1.36	0.27	100.00
Sample Size		4	40		35	93	2	186		5		365
Mean Length		594	506		560	528	603	580		624		557
Std. Error			5			7		3				2
Sample Size		1	11		2	22	1	53		1		91
Sample Period 4 : July 7 - July 9												
Males			31,761		37,976	145,689	2,762	132,569	690	1,381	690	353,518
Percent			5.69		6.81	26.11	0.50	23.76	0.12	0.25	0.12	63.37
Sample Size			46		55	211	4	192	1	2	1	512
Mean Length			514		575	514	589	575	523	567	576	544
Std. Error			4		4	2	10	2		8		1
Sample Size			46		54	211	4	192	1	2	1	511
Females	1,381	8,286			17,952	54,547	690	119,450		1,381	690	204,377
Percent	0.25	1.49			3.22	9.78	0.12	21.41		0.25	0.12	36.63
Sample Size	2	12			26	79	1	173		2	1	296
Mean Length		535	509		552	497	607	553		556	552	537
Std. Error			7		5	3		2		3		1
Sample Size		2	12		26	79	1	173		2	1	296
Both Sexes	1,381	40,047			55,928	200,236	3,452	252,019	690	2,762	1,380	557,895
Percent	0.25	7.18			10.02	35.89	0.62	45.17	0.12	0.50	0.25	100.00
Sample Size	2	58			81	290	5	365	1	4	2	808
Mean Length		535	513		568	510	592	565	523	561	564	542
Std. Error			4		3	1	10	1		4		1
Sample Size		2	58		80	290	5	365	1	4	2	807

- Continued -

Table 31. (p 3 of 5)

	Age Group											Total
	0.2	0.3	1.2	2.1	1.3	2.2	1.4	2.3	3.2	2.4	3.3	
Sample Period 5: July 10 - July 12												
Males	1,471	13,241			29,425	117,699	2,942	132,414		2,942		300,134
Percent	0.31	2.77			6.15	24.62	0.62	27.69		0.62		62.77
Sample Size	1	9			20	80	2	90		2		204
Mean Length	554	501			562	509	606	571		578		543
Std. Error		8			6	3	3	3		20		2
Sample Size	1	9			20	77	2	88		2		199
Females		4,414	1,471		22,069	51,494		98,572				178,020
Percent		0.92	0.31		4.62	10.77		20.62				37.23
Sample Size		3	1		15	35		67				121
Mean Length		490	391		550	495		546				529
Std. Error		14			6	4		3				2
Sample Size		3	1		15	35		67				121
Both Sexes	1,471	17,655	1,471		51,494	169,193	2,942	230,986		2,942		478,154
Percent	0.31	3.69	0.31		10.77	35.38	0.62	48.31		0.62		100.00
Sample Size	1	12	1		35	115	2	157		2		325
Mean Length	554	498	391		557	505	606	560		578		538
Std. Error		7			4	2	3	2		20		1
Sample Size	1	12	1		35	112	2	155		2		320
Sample Period 6: July 13												
Males		8,262			18,177	101,354	1,102	95,294	1,652		551	226,392
Percent		1.88			4.13	23.03	0.25	21.65	0.38		0.13	51.44
Sample Size		15			33	184	2	173	3		1	411
Mean Length		496			570	510	610	574	488		537	542
Std. Error		8			4	2	12	2	19			1
Sample Size		15			33	184	2	173	3		1	411
Females		5,508			22,033	77,117	2,203	103,557	2,203	551	551	213,723
Percent		1.25			5.01	17.52	0.50	23.53	0.50	0.13	0.13	48.56
Sample Size		10			40	140	4	188	4	1	1	388
Mean Length		496			552	494	570	552	514	553	560	529
Std. Error		3			4	2	19	2	3			1
Sample Size		10			40	140	4	188	4	1	1	388
Both Sexes		13,770			40,210	178,471	3,305	198,851	3,855	551	1,102	440,115
Percent		3.13			9.14	40.55	0.75	45.18	0.88	0.13	0.25	100.00
Sample Size		25			73	324	6	361	7	1	2	799
Mean Length		496			560	503	583	563	503	553	549	536
Std. Error		5			3	1	14	1	8			1
Sample Size		25			73	324	6	361	7	1	2	799

- Continued -

Table 31. (p 4 of 5)

	Age Group										Total	
	0.2	0.3	1.2	2.1	1.3	2.2	1.4	2.3	3.2	2.4		3.3
Sample Period 7: July 14												
Males		13,220			15,864	103,114		120,300		3,966		256,464
Percent		2.24			2.68	17.45		20.36		0.67		43.40
Sample Size		10			12	78		91		3		194
Mean Length		508			566	512		580		583		548
Std. Error		10			8	3		3		19		2
Sample Size		10			12	77		90		3		192
Females	1,322	13,220			23,796	153,348	3,966	136,164		2,644		334,460
Percent	0.22	2.24			4.03	25.95	0.67	23.04		0.45		56.60
Sample Size	1	10			18	116	3	103		2		253
Mean Length	517	487			548	497	573	553		530		524
Std. Error		4			5	2	11	2		15		1
Sample Size	1	10			18	116	3	102		2		252
Both Sexes	1,322	26,440			39,660	256,462	3,966	256,464		6,610		590,924
Percent	0.22	4.47			6.71	43.40	0.67	43.40		1.12		100.00
Sample Size	1	20			30	194	3	194		5		447
Mean Length	517	498			555	503	573	566		562		535
Std. Error		6			5	2	11	2		13		1
Sample Size	1	20			30	193	3	192		5		444
Sample Period 8: July 15 - September 2												
Males		32,527			39,032	585,481		455,375	13,011		19,516	1,144,942
Percent		1.84			2.21	33.09		25.74	0.74		1.10	64.71
Sample Size		5			6	90		70	2		3	176
Mean Length		513			607	532		596	504		612	560
Std. Error		14			10	3		3			9	2
Sample Size		5			6	90		70	2		3	176
Females		6,505			52,043	188,655	19,516	357,795				624,514
Percent		0.37			2.94	10.66	1.10	20.22				35.29
Sample Size		1			8	29	3	55				96
Mean Length		524			581	518	601	574				558
Std. Error					7	4	8	3				2
Sample Size		1			8	29	3	55				96
Both Sexes		39,032			91,075	774,136	19,516	813,170	13,011		19,516	1,769,456
Percent		2.21			5.15	43.75	1.10	45.96	0.74		1.10	100.00
Sample Size		6			14	119	3	125	2		3	272
Mean Length		515			592	529	601	586	504		612	560
Std. Error		14			6	2	8	2			9	1
Sample Size		6			14	119	3	125	2		3	272

- Continued -

Table 31. (p 5 of 5)

	Age Group											Total
	0.2	0.3	1.2	2.1	1.3	2.2	1.4	2.3	3.2	2.4	3.3	
All Periods Combined:												
Males	201	5,832	132,009		160,711	1,132,614	7,932	1,046,919	16,680	10,499	21,883	2,535,280
Percent	0.00	0.13	3.03		3.69	26.02	0.18	24.05	0.38	0.24	0.50	58.24
Sample Size	1	16	184		189	848	10	869	9	11	7	2,144
Mean Length	513	298	488		567	518	530	579	475	567	578	545
Std. Error		11	4		3	2	5	2	15	11	9	1
Sample Size	1	7	122		145	721	9	691	8	8	5	1,717
Mean Weight	2.44	3.31			3.21	2.04		3.17				2.71
Std. Error		0.15			0.48	0.17		0.12				0.11
Sample Size	1	2			3	5		4				15
Females	925	6,301	66,128	1,651	170,631	580,599	27,501	952,224	2,383	7,732	1,442	1,817,517
Percent	0.02	0.14	1.52	0.04	3.92	13.34	0.63	21.88	0.05	0.18	0.03	41.76
Sample Size	1	14	103	2	186	540	13	910	5	10	3	1,787
Mean Length		502	469	348	545	498	591	554	475	320	478	531
Std. Error		18	3		3	2	6	1	3	10		1
Sample Size		7	53	1	130	444	12	730	4	5	2	1,388
Mean Weight		2.82	2.20		2.62	1.97		2.58				2.44
Std. Error			0.18		0.18	0.12		0.05				0.05
Sample Size		1	2		4	4		19				30
Both Sexes	1,126	12,133	198,137	1,651	331,342	1,713,213	35,433	1,999,143	19,063	18,231	23,325	4,352,797
Percent	0.03	0.28	4.55	0.04	7.61	39.36	0.81	45.93	0.44	0.42	0.54	100.00
Sample Size	1	22	232	1	331	1,283	23	1,634	12	17	7	3,563
Mean Length	513	554	507	391	569	517	596	574	504	572	606	548
Std. Error		10	3		2	1	5	1	8	8	9	1
Sample Size	1	14	175	1	275	1,165	21	1,421	12	13	7	3,105
Mean Weight	2.44	3.10	2.20		2.93	2.02		2.82				2.57
Std. Error		0.15	0.18		0.27	0.12		0.06				0.06
Sample Size	1	3	2		7	9		23				45

Table 32. Age, sex, and size (length in mm and weight in kg) composition of sockeye salmon escapement, Ugashik River, 1994.

	Age Group								Total
	1.1	1.2	2.1	1.3	2.2	2.3	3.2	2.4	
Sample Period 1: July 8 - July 12									
Males	5,527	50,668	8,291	11,976	119,762	69,093			265,317
Percent	1.06	9.73	1.59	2.30	23.01	13.27			50.97
Sample Size	6	55	9	13	130	75			288
Mean Length	330	497	379	569	507	583			520
Std. Error	8	4	6	9	3	3			2
Sample Size	6	55	9	13	130	75			288
Females		36,850	921	12,897	148,320	54,353	921	921	255,183
Percent		7.08	0.18	2.48	28.50	10.44	0.18	0.18	49.03
Sample Size		40	1	14	161	59	1	1	277
Mean Length		485	536	555	490	558	477	587	507
Std. Error		5		6	2	3			2
Sample Size		40	1	14	161	59	1	1	277
Both Sexes	5,527	87,518	9,212	24,873	268,082	123,446	921	921	520,500
Percent	1.06	16.81	1.77	4.78	51.50	23.72	0.18	0.18	100.00
Sample Size	6	95	10	27	291	134	1	1	565
Mean Length	330	492	395	561	498	572	477	587	514
Std. Error	8	3	6	5	2	2			1
Sample Size	6	95	10	27	291	134	1	1	565
Sample Period 2: July 13 - July 16									
Males	605	8,161	1,814	2,116	32,947	7,859			53,502
Percent	0.36	4.84	1.08	1.25	19.53	4.66			31.72
Sample Size	2	27	6	7	109	26			177
Mean Length	355	484	398	582	491	587			503
Std. Error	27	9	6	6	3	4			2
Sample Size	2	27	6	7	109	26			177
Females		15,416		907	88,866	9,673		302	115,164
Percent		9.14		0.54	52.69	5.74		0.18	68.28
Sample Size		51		3	294	32		1	381
Mean Length		473		556	485	555		600	491
Std. Error		3		1	1	4			1
Sample Size		50		3	294	32		1	380
Both Sexes	605	23,577	1,814	3,023	121,813	17,532		302	168,666
Percent	0.36	13.98	1.08	1.79	72.22	10.39		0.18	100.00
Sample Size	2	78	6	10	403	58		1	558
Mean Length	355	477	398	574	487	569		600	494
Std. Error	27	4	6	4	1	3			1
Sample Size	2	77	6	10	403	58		1	557

- Continued -

Table 32. (p 2 of 3)

	Age Group								Total
	1.1	1.2	2.1	1.3	2.2	2.3	3.2	2.4	
Sample Period 3: July 17 - July 23									
Males		6,763	676	2,029	66,958	17,585	676		94,687
Percent		1.90	0.19	0.57	18.82	4.94	0.19		26.62
Sample Size		10	1	3	99	26	1		140
Mean Length		476	341	592	479	592	478		501
Std. Error		12		15	3	4			3
Sample Size		10	1	3	99	26	1		140
Females		14,879		2,705	231,307	11,498	676		261,065
Percent		4.18		0.76	65.02	3.23	0.19		73.38
Sample Size		22		4	342	17	1		386
Mean Length		485		533	483	571	532		488
Std. Error		4		24	1	6			1
Sample Size		22		4	342	17	1		386
Both Sexes		21,642	676	4,734	298,265	29,083	1,352		355,752
Percent		6.08	0.19	1.33	83.84	8.18	0.38		100.00
Sample Size		32	1	7	441	43	2		526
Mean Length		482	341	558	482	584	505		492
Std. Error		4		15	1	3			1
Sample Size		32	1	7	441	43	2		526
Sample Period 4: July 24 - July 27									
Males		1,198	1,369	513	10,611	2,396			16,087
Percent		3.33	3.81	1.43	29.52	6.67			44.76
Sample Size		7	8	3	62	14			94
Mean Length		494	354	608	480	609			493
Std. Error		30	8	12	6	5			5
Sample Size		7	8	3	62	14			94
Females	171	2,567		513	15,404	1,198			19,853
Percent	0.48	7.14		1.43	42.86	3.33			55.24
Sample Size	1	15		3	90	7			116
Mean Length	450	506		547	493	565			500
Std. Error		8		2	3	5			2
Sample Size	1	15		3	90	7			116
Both Sexes	171	3,765	1,369	1,026	26,015	3,594			35,940
Percent	0.48	10.48	3.81	2.85	72.38	10.00			100.00
Sample Size	1	22	8	6	152	21			210
Mean Length	450	502	354	577	488	594			497
Std. Error		11	8	6	3	4			2
Sample Size	1	22	8	6	152	21			210

- Continued -

Table 32. (p 3 of 3)

	Age Group								Total ^a
	1.1	1.2	2.1	1.3	2.2	2.3	3.2	2.4	
All Periods Combined:									
Males	6,132	66,790	12,150	16,634	230,278	96,933	676		429,593
Percent	0.57	6.18	1.12	1.54	21.31	8.97	0.06		39.75
Sample Size	8	99	24	26	400	141	1		699
Mean Length	332	494	377	574	495	586	478		513
Std. Error	8	3	5	7	2	2			1
Sample Size	8	99	24	26	400	141	1		699
Females	171	69,712	921	17,022	483,897	76,722	1,597	1,223	651,265
Percent	0.02	6.45	0.09	1.57	44.77	7.10	0.15	0.11	60.25
Sample Size	1	128	1	24	887	115	2	2	1,160
Mean Length	450	483	536	551	486	560	500	590	496
Std. Error		3		6	1	2			1
Sample Size	1	127	1	24	887	115	2	2	1,159
Both Sexes	6,303	136,502	13,071	33,656	714,175	173,655	2,273	1,223	1,080,858
Percent	0.58	12.63	1.21	3.11	66.07	16.07	0.21	0.11	100.00
Sample Size	9	227	25	50	1,287	256	3	2	1,859
Mean Length	336	488	388	563	489	574	494	590	503
Std. Error	8	2	5	4	1	2			1
Sample Size	9	226	25	50	1,287	256	3	2	1,858

^a Total does not include escapement to King Salmon (8,885) and Dog Salmon (5,325) Rivers.

Table 33. Age, sex, and size (length in mm and weight in kg) composition of sockeye salmon commercial catch, Nushagak District, 1994.

	Age Group									Total
	0.2	0.3	1.2	0.4	1.3	2.2	1.4	2.3	2.4	
Sample Period 1: June 8 - June 24										
Males		6,839	1,535		14,378	140	558	279		23,729
Percent		15.22	3.42		31.99	0.31	1.24	0.62		52.80
Sample Size		49	11		103	1	4	2		170
Mean Length		551	491		572	523	606	600		562
Std. Error		6	5		2		17	11		2
Sample Size		49	11		103	1	4	2		170
Mean Weight		2.70	1.91		3.07			3.42		2.89
Std. Error		0.17	0.15		0.14					0.10
Sample Size		11	2		20			1		34
Females		4,327	698	279	14,935	279	419	279		21,216
Percent		9.63	1.55	0.62	33.23	0.62	0.93	0.62		47.20
Sample Size		31	5	2	107	2	3	2		152
Mean Length		544	533	558	550	550	586	558		549
Std. Error		3	17	2	2	10	19	6		1
Sample Size		31	5	2	107	2	3	2		152
Mean Weight		2.55	2.45		2.63		3.00			2.61
Std. Error		0.06	0.27		0.05		0.47			0.04
Sample Size		8	2		33		2			45
Both Sexes		11,166	2,233	279	29,313	419	977	558		44,945
Percent		24.84	4.97	0.62	65.22	0.93	2.17	1.24		100.00
Sample Size		80	16	2	210	3	7	4		322
Mean Length		549	504	558	561	541	597	579		556
Std. Error		4	6	2	1	10	13	6		1
Sample Size		80	16	2	210	3	7	4		322
Mean Weight		2.64	2.08		2.85		3.00	3.42		2.76
Std. Error		0.11	0.13		0.07		0.47			0.06
Sample Size		19	4		53		2	1		79
Sample Period 2: June 25 - June 28										
Males	61	2,623	488		6,406	122	549	244		10,493
Percent	0.31	13.19	2.45		32.21	0.61	2.76	1.23		52.76
Sample Size	1	43	8		105	2	9	4		172
Mean Length	509	563	508		580	517	594	587		572
Std. Error		7	7		3	48	15	9		3
Sample Size	1	43	8		105	2	9	4		172
Mean Weight		2.96	2.02		3.24	3.12	4.34	3.37		3.17
Std. Error		0.33	0.23		0.08		0.55	0.11		0.10
Sample Size		7	2		41	1	2	3		56
Females		2,440	61	61	6,405		183	244		9,394
Percent		12.27	0.31	0.31	32.21		0.92	1.23		47.24
Sample Size		40	1	1	105		3	4		154
Mean Length		540	518	572	556		581	550		552
Std. Error		5			2		16	10		2
Sample Size		40	1	1	105		3	4		154
Mean Weight		2.38			2.67		3.57			2.61
Std. Error		0.13			0.11		0.28			0.09
Sample Size		8			20		2			30
Both Sexes	61	5,063	549	61	12,811	122	732	488		19,887
Percent	0.31	25.46	2.76	0.31	64.42	0.61	3.68	2.45		100.00
Sample Size	1	83	9	1	210	2	12	8		326
Mean Length	509	552	509	572	568	517	591	568		563
Std. Error		4	7		2	48	12	7		2
Sample Size	1	83	9	1	210	2	12	8		326
Mean Weight		2.68	2.02		2.96	3.12	4.15	3.37		2.91
Std. Error		0.18	0.23		0.07		0.42	0.11		0.07
Sample Size		15	2		61	1	4	3		86

- Continued -

Table 33. (p 2 of 4)

	Age Group									Total
	0.2	0.3	1.2	0.4	1.3	2.2	1.4	2.3	2.4	
Sample Period 3: June 29 - July 4										
Males	930	43,724	40,933	1,861	118,146	3,721	3,721	1,861		214,897
Percent	0.17	7.78	7.28	0.33	21.03	0.66	0.66	0.33		38.25
Sample Size	1	47	44	2	127	4	4	2		231
Mean Length	511	584	505	597	575	526	599	593		563
Std. Error		20	3	22	2	9	15	8		4
Sample Size	1	47	44	2	127	4	4	2		231
Mean Weight		3.03	2.00		3.14		3.59			2.90
Std. Error		0.20	0.11		0.07		0.51			0.06
Sample Size		10	7		42		3			62
Females	930	70,702	31,630	2,791	236,293		1,861	2,791		346,998
Percent	0.17	12.58	5.63	0.50	42.05		0.33	0.50		61.75
Sample Size	1	76	34	3	254		2	3		373
Mean Length	539	540	496	577	549		551	549		542
Std. Error		2	3	2	1		1	13		1
Sample Size	1	76	34	3	254		2	3		373
Mean Weight	2.66	5.38	1.85	3.33	2.66		2.61	3.30		3.15
Std. Error		2.79	0.02		0.05					0.57
Sample Size	1	17	9	1	57		1	1		87
Both Sexes	1,860	114,426	72,563	4,652	354,439	3,721	5,582	4,652		561,895
Percent	0.33	20.36	12.91	0.83	63.08	0.66	0.99	0.83		100.00
Sample Size	2	123	78	5	381	4	6	5		604
Mean Length	525	557	501	585	558	526	582	567		550
Std. Error		8	2	9	1	9	10	8		2
Sample Size	2	123	78	5	381	4	6	5		604
Mean Weight	2.66	4.48	1.93	3.33	2.82		3.26	3.30		3.06
Std. Error		1.73	0.06		0.04		0.51			0.36
Sample Size	1	27	16	1	99		4	1		149
Sample Period 4: July 5 - July 9										
Males		57,655	108,657		243,924		4,435	4,435		419,106
Percent		4.93	9.30		20.87		0.38	0.38		35.86
Sample Size		26	49		110		2	2		189
Mean Length		554	498		565		582	567		546
Std. Error		6	3		2		6	17		2
Sample Size		26	49		110		2	2		189
Mean Weight		3.09	1.85		3.03		3.29	3.25		2.74
Std. Error		0.21	0.06		0.11			0.33		0.07
Sample Size		7	9		28		1	2		47
Females		157,442	44,350	6,652	523,329	4,435	8,870	2,217	2,217	749,512
Percent		13.47	3.80	0.57	44.78	0.38	0.76	0.19	0.19	64.14
Sample Size		71	20	3	236	2	4	1	1	338
Mean Length		536	491	567	541	515	565	526	569	537
Std. Error		2	5	5	1	2	4			1
Sample Size		71	20	3	236	2	4	1	1	338
Mean Weight		2.46	1.90		2.55	2.25	3.08			2.50
Std. Error		0.08	0.04		0.04					0.03
Sample Size		18	3		57	1	1			80
Both Sexes		215,097	153,007	6,652	767,253	4,435	13,305	6,652	2,217	1,168,618
Percent		18.41	13.09	0.57	65.65	0.38	1.14	0.57	0.19	100.00
Sample Size		97	69	3	346	2	6	3	1	527
Mean Length		541	496	567	549	515	570	553	569	541
Std. Error		2	3	5	1	2	3	17		1
Sample Size		97	69	3	346	2	6	3	1	527
Mean Weight		2.63	1.86		2.70	2.25	3.15	3.25		2.58
Std. Error		0.08	0.05		0.04			0.33		0.03
Sample Size		25	12		85	1	2	2		127

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Table 33. (p 3 of 4)

	Age Group									Total
	0.2	0.3	1.2	0.4	1.3	2.2	1.4	2.3	2.4	
Sample Period 5: July 10 - July 11										
Males	20,775	44,517	1,484	140,970	2,968	5,936	2,968			219,618
Percent	4.00	8.57	0.29	27.14	0.57	1.14	0.57			42.29
Sample Size	14	30	1	95	2	4	2			148
Mean Length	550	499	584	564	498	583	555			549
Std. Error	7	4		3	2	9	6			2
Sample Size	14	30	1	95	2	4	2			148
Mean Weight	2.81	2.06		3.30	1.92					2.97
Std. Error	0.17	0.12		0.10						0.07
Sample Size	6	8		25	1					40
Females	71,227	22,259	2,968	192,906		4,452	5,936			299,748
Percent	13.71	4.29	0.57	37.14		0.86	1.14			57.71
Sample Size	48	15	2	130		3	4			202
Mean Length	532	480	559	537		544	531			532
Std. Error	3	8	11	2		7	11			2
Sample Size	48	15	2	130		3	4			202
Mean Weight	2.40	1.48	2.43	2.58						2.45
Std. Error	0.10	0.30		0.06						0.05
Sample Size	12	2	1	34						49
Both Sexes	92,002	66,776	4,452	333,876	2,968	10,388	8,904			519,366
Percent	17.71	12.86	0.86	64.29	0.57	2.00	1.71			100.00
Sample Size	62	45	3	225	2	7	6			350
Mean Length	536	492	567	548	498	566	539			539
Std. Error	3	4	11	2	2	6	7			1
Sample Size	62	45	3	225	2	7	6			350
Mean Weight	2.49	1.87	2.43	2.88	1.92					2.67
Std. Error	0.09	0.13		0.05						0.04
Sample Size	18	10	1	59	1					89
Sample Period 6: July 12 - July 28										
Males	41,648	56,064		253,090	8,009	4,806	14,417			378,034
Percent	4.98	6.70		30.27	0.96	0.57	1.72			45.21
Sample Size	26	35		158	5	3	9			236
Mean Length	557	493		564	515	594	558			552
Std. Error	4	4		2	16	13	7			1
Sample Size	26	35		158	5	3	9			236
Mean Weight	3.10	1.95		3.18	1.95					2.95
Std. Error	0.14	0.06		0.07						0.05
Sample Size	8	8		42	1					59
Females	73,685	20,824	9,611	333,181	8,009	3,204	9,611			458,125
Percent	8.81	2.49	1.15	39.85	0.96	0.38	1.15			54.79
Sample Size	46	13	6	208	5	2	6			286
Mean Length	527	494	557	536	518	569	529			533
Std. Error	3	6	11	1	8	31	6			1
Sample Size	46	13	6	208	5	2	6			286
Mean Weight	2.50	1.82	3.03	2.56	1.99	2.67	2.75			2.52
Std. Error	0.08	0.18	0.45	0.04						0.03
Sample Size	11	3	2	55	1	1	1			74
Both Sexes	115,333	76,888	9,611	586,271	16,018	8,010	24,028			836,159
Percent	13.79	9.20	1.15	70.11	1.92	0.96	2.87			100.00
Sample Size	72	48	6	366	10	5	15			522
Mean Length	538	493	557	548	517	584	546			541
Std. Error	3	3	11	1	9	15	5			1
Sample Size	72	48	6	366	10	5	15			522
Mean Weight	2.72	1.91	3.03	2.83	1.97	2.67	2.75			2.71
Std. Error	0.07	0.07	0.45	0.04						0.03
Sample Size	19	11	2	97	2	1	1			133

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Table 33. (p 4 of 4)

	Age Group								Total ^a	
	0.2	0.3	1.2	0.4	1.3	2.2	1.4	2.3		2.4
All Periods Combined:										
Males	991	173,264	252,194	3,345	776,914	14,960	20,005	24,204		1,265,877
Percent	0.03	5.50	8.00	0.11	24.66	0.47	0.63	0.77		40.18
Sample Size	2	205	177	3	698	14	26	21		1,146
Mean Length	511	562	498	591	566	515	589	563		552
Std. Error		6	2	22	1	9	5	5		1
Sample Size	2	205	177	3	698	14	26	21		1,146
Mean Weight		3.03	1.93		3.15	1.95	3.48	3.27		2.87
Std. Error		0.09	0.04		0.05		0.45	0.31		0.03
Sample Size		49	36		198	3	6	6		298
Females	930	379,823	119,822	22,362	1,307,049	12,723	18,989	21,078	2,217	1,884,993
Percent	0.03	12.05	3.80	0.71	41.48	0.40	0.60	0.67	0.07	59.82
Sample Size	1	312	88	17	1,040	9	17	20	1	1,505
Mean Length	539	534	491	563	541	518	560	533	569	536
Std. Error		1	3	5	1	5	6	5		1
Sample Size	1	312	88	17	1,040	9	17	20	1	1,505
Mean Weight	2.66	3.00	1.80	2.97	2.58	2.08	2.93	2.87		2.62
Std. Error		0.52	0.07	0.45	0.02		0.34			0.11
Sample Size	1	74	19	4	256	2	7	2		365
Both Sexes	1,921	553,087	372,016	25,707	2,083,963	27,683	38,994	45,282	2,217	3,150,870
Percent	0.06	17.55	11.81	0.82	66.14	0.88	1.24	1.44	0.07	100.00
Sample Size	3	517	265	20	1,738	23	43	41	1	2,651
Mean Length	524	543	496	566	550	516	575	549	569	543
Std. Error		2	2	5	1	5	4	4		1
Sample Size	3	517	265	20	1,738	23	43	41	1	2,651
Mean Weight	2.66	3.01	1.89	2.97	2.79	2.02	3.14	2.99		2.72
Std. Error		0.36	0.04	0.45	0.02		0.40	0.31		0.07
Sample Size	1	123	55	4	454	5	13	8		663

^a Nushagak District catch does not include Igushik Beach setnet catch (242,273) which was sampled separately.

Table 34. Age, sex, and size (length in mm and weight in kg) composition of sockeye salmon commercial catch, Igushik Beach setnet fishery, 1994.

	Age Group						Total
	0.3	1.2	1.3	2.2	1.4	2.3	
Sample period: June 17 - July 20							
Males	918	15,142	79,839	6,883	918	4,589	108,289
Percent	0.38	6.25	32.95	2.84	0.38	1.89	44.70
Sample Size	2	33	174	15	2	10	236
Mean Length	552	504	583	521	597	576	567
Std. Error	17	3	2	6	15	4	2
Sample Size	2	33	174	15	2	10	236
Mean Weight		2.23	3.39	2.32		3.43	3.16
Std. Error		0.07	0.06	0.10		0.16	0.05
Sample Size		6	50	7		3	66
Females	1,835	8,259	112,877	3,671	459	6,883	133,984
Percent	0.76	3.41	46.59	1.52	0.19	2.84	55.30
Sample Size	4	18	246	8	1	15	292
Mean Length	530	504	549	515	565	550	545
Std. Error	10	6	1	7		7	1
Sample Size	4	18	246	8	1	15	292
Mean Weight		2.76	2.65	1.90		2.47	2.63
Std. Error			0.05	0.15		0.33	0.05
Sample Size		1	58	4		4	67
Both Sexes	2,753	23,401	192,716	10,554	1,377	11,472	242,273
Percent	1.14	9.66	79.54	4.36	0.57	4.74	100.00
Sample Size	6	51	420	23	3	25	528
Mean Length	538	504	563	519	586	560	555
Std. Error	9	3	1	4	15	5	1
Sample Size	6	51	420	23	3	25	528
Mean Weight		2.42	2.96	2.17		2.85	2.86
Std. Error		0.07	0.04	0.08		0.21	0.03
Sample Size		7	108	11		7	133

Table 35. Age, sex, and size (length in mm and weight in kg) composition of sockeye salmon escapement, Wood River, 1994.

	Age Group								Total
	1.1	0.3	1.2	2.1	1.3	2.2	1.4	2.3	
Sample Period 1: June 22 - July 4									
Males			46,729		40,666		357	357	88,109
Percent			25.14		21.88		0.19	0.19	47.41
Sample Size			131		114		1	1	247
Mean Length			495		562		612	578	526
Std. Error			3		3				2
Sample Size			131		113		1	1	246
Females	2,140	357	37,812		56,719			713	97,741
Percent	1.15	0.19	20.35		30.52			0.38	52.59
Sample Size	6	1	106		159			2	274
Mean Length	352	560	475		539			533	510
Std. Error	5		3		3			11	2
Sample Size	6	1	106		159			2	274
Both Sexes	2,140	357	84,541		97,385		357	1,070	185,850
Percent	1.15	0.19	45.49		52.40		0.19	0.58	100.00
Sample Size	6	1	237		273		1	3	521
Mean Length	352	560	486		549		612	548	518
Std. Error	5		2		2			11	1
Sample Size	6	1	237		272		1	3	520
Sample Period 2: July 5 - July 9									
Males	1,805		131,792		75,825	1,805	1,805	903	213,935
Percent	0.39		28.46		16.37	0.39	0.39	0.20	46.20
Sample Size	2		146		84	2	2	1	237
Mean Length	353		480		562	490	579	605	509
Std. Error	3		3		5	6	22		3
Sample Size	2		146		84	2	2	1	237
Females	2,708		159,774		83,046	1,805	903	903	249,139
Percent	0.58		34.50		17.93	0.39	0.20	0.20	53.80
Sample Size	3		177		92	2	1	1	276
Mean Length	379		471		536	518	565	439	492
Std. Error	18		2		12	37			4
Sample Size	3		177		92	2	1	1	276
Both Sexes	4,513		291,566		158,871	3,610	2,708	1,806	463,074
Percent	0.97		62.96		34.31	0.78	0.58	0.39	100.00
Sample Size	5		323		176	4	3	2	513
Mean Length	368		475		549	504	574	522	500
Std. Error	11		2		7	19	22		3
Sample Size	5		323		176	4	3	2	513

- Continued -

Table 35. (p 2 of 3)

	Age Group								Total
	1.1	0.3	1.2	2.1	1.3	2.2	1.4	2.3	
Sample Period 3: July 10 - July 11									
Males		848	42,385	848	115,287			848	160,216
Percent		0.18	9.21	0.18	25.05			0.18	34.81
Sample Size		1	50	1	136			1	189
Mean Length		605	487	355	563			563	542
Std. Error			5		3				2
Sample Size		1	50	1	136			1	189
Females	3,391		174,626		121,221		848		300,086
Percent	0.74		37.94		26.34		0.18		65.19
Sample Size	4		206		143		1		354
Mean Length	329		472		528		575		493
Std. Error	5		2		3				2
Sample Size	4		206		143		1		354
Both Sexes	3,391	848	217,011	848	236,508		848	848	460,302
Percent	0.74	0.18	47.15	0.18	51.38		0.18	0.18	100.00
Sample Size	4	1	256	1	279		1	1	543
Mean Length	329	605	475	355	545		575	563	510
Std. Error	5		2		2				1
Sample Size	4	1	256	1	279		1	1	543
Sample Period 4: July 12 - July 16									
Males	703	937	29,036		21,778	468			52,922
Percent	0.50	0.66	20.46		15.35	0.33			37.29
Sample Size	3	4	124		93	2			226
Mean Length	366	601	476		579	515			519
Std. Error	4	1	3		3	29			2
Sample Size	3	4	124		93	2			226
Females	703		61,586	234	24,822	1,171		468	88,984
Percent	0.50		43.40	0.16	17.49	0.83		0.33	62.71
Sample Size	3		263	1	106	5		2	380
Mean Length	342		465	370	523	458		537	480
Std. Error	20		2		5	11		15	2
Sample Size	3		262	1	106	5		2	379
Both Sexes	1,406	937	90,622	234	46,600	1,639		468	141,906
Percent	0.99	0.66	63.86	0.16	32.84	1.15		0.33	100.00
Sample Size	6	4	387	1	199	7		2	606
Mean Length	354	601	468	370	549	474		537	495
Std. Error	10	1	1		3	11		15	1
Sample Size	6	4	386	1	199	7		2	606

- Continued -

Table 35. (p 3 of 3)

	Age Group								Total
	1.1	0.3	1.2	2.1	1.3	2.2	1.4	2.3	
Sample Period 5: July 17 - July 24									
Males	344	344	19,944		79,775	688	1,375	3,095	105,565
Percent	0.16	0.16	9.03		36.14	0.31	0.62	1.40	47.82
Sample Size	1	1	58		232	2	4	9	307
Mean Length	367	607	487		575	531	606	570	558
Std. Error			5		2	25	7	12	2
Sample Size	1	1	58		232	2	4	9	307
Females		344	53,986		56,049	1,032	1,375	2,407	115,193
Percent		0.16	24.45		25.39	0.47	0.62	1.09	52.18
Sample Size		1	157		163	3	4	7	335
Mean Length		525	468		512	462	495	480	490
Std. Error			2		3	13	19	13	2
Sample Size		1	157		163	3	4	7	335
Both Sexes	344	688	73,930		135,824	1,720	2,750	5,502	220,758
Percent	0.16	0.31	33.49		61.53	0.78	1.25	2.49	100.00
Sample Size	1	2	215		395	5	8	16	642
Mean Length	367	566	473		549	490	551	531	522
Std. Error			2		2	13	10	9	1
Sample Size	1	2	215		395	5	8	16	642
All Periods Combined:									
Males	2,852	2,129	269,886	848	333,331	2,961	3,537	5,203	620,747
Percent	0.19	0.14	18.34	0.06	22.65	0.20	0.24	0.35	42.17
Sample Size	6	6	509	1	659	6	7	12	1,206
Mean Length	358	604	484	355	566	503	593	576	529
Std. Error	2	1	2		2	8	13	12	1
Sample Size	6	6	509	1	658	6	7	12	1,205
Females	8,942	701	487,784	234	341,857	4,008	3,126	4,491	851,143
Percent	0.61	0.05	33.14	0.02	23.23	0.27	0.21	0.31	57.83
Sample Size	16	2	909	1	663	10	6	12	1,619
Mean Length	351	543	470	370	529	486	537	486	493
Std. Error	6		1		3	17	19	9	1
Sample Size	16	2	908	1	663	10	6	12	1,618
Both Sexes	11,794	2,830	757,670	1,082	675,188	6,969	6,663	9,694	1,471,890
Percent	0.80	0.19	51.48	0.07	45.87	0.47	0.45	0.66	100.00
Sample Size	22	8	1,418	2	1,322	16	13	24	2,825
Mean Length	352	589	475	358	547	493	566	534	508
Std. Error	5	1	1		2	11	10	7	1
Sample Size	22	8	1,417	2	1,321	16	13	24	2,823

Table 36. Age, sex, and size (length in mm and weight in kg) composition of sockeye salmon escapement, Igushik River, 1994.

	Age Group						Total
	0.3	1.2	1.3	2.2	1.4	2.3	
Sample Period 1: June 22 - July 6							
Males		6,660	22,297	386	193	290	29,826
Percent		11.18	37.44	0.65	0.32	0.49	50.08
Sample Size		69	231	4	2	3	309
Mean Length		516	585	496	573	574	568
Std. Error		4	2	9	25	11	2
Sample Size		69	231	4	2	3	309
Females		3,958	24,999	483		290	29,730
Percent		6.65	41.98	0.81		0.49	49.92
Sample Size		41	259	5		3	308
Mean Length		495	547	530		529	540
Std. Error		5	1	9		2	1
Sample Size		41	259	5		3	308
Both Sexes		10,618	47,296	869	193	580	59,556
Percent		17.83	79.41	1.46	0.32	0.97	100.00
Sample Size		110	490	9	2	6	617
Mean Length		508	565	515	573	551	554
Std. Error		3	1	6	25	5	1
Sample Size		110	490	9	2	6	617
Sample Period 2: July 7 - July 10							
Males	198	4,263	16,952	1,090		198	22,701
Percent	0.40	8.60	34.20	2.20		0.40	45.80
Sample Size	2	43	171	11		2	229
Mean Length	566	511	585	510		590	567
Std. Error	6	6	2	9		3	2
Sample Size	2	43	170	11		2	228
Females		7,534	18,142	892		297	26,865
Percent		15.20	36.60	1.80		0.60	54.20
Sample Size		76	183	9		3	271
Mean Length		477	546	480		546	524
Std. Error		3	2	8		11	1
Sample Size		76	183	9		3	271
Both Sexes	198	11,797	35,094	1,982		495	49,566
Percent	0.40	23.80	70.80	4.00		1.00	100.00
Sample Size	2	119	354	20		5	500
Mean Length	566	489	564	496		564	544
Std. Error	6	3	1	6		7	1
Sample Size	2	119	353	20		5	499

- Continued -

Table 36. (p 2 of 3)

	Age Group						Total
	0.3	1.2	1.3	2.2	1.4	2.3	
Sample Period 3: July 11 - July 14							
Males	12,675	54,186	4,119			1,267	72,247
Percent	7.22	30.87	2.35			0.72	41.16
Sample Size	40	171	13			4	228
Mean Length	509	581	510			558	564
Std. Error	6	2	6			19	2
Sample Size	40	171	13			4	228
Females	21,547	70,664	8,872			2,218	103,301
Percent	12.27	40.25	5.05			1.26	58.84
Sample Size	68	223	28			7	326
Mean Length	478	542	493			552	525
Std. Error	3	2	4			8	1
Sample Size	68	223	28			7	326
Both Sexes	34,222	124,850	12,991			3,485	175,548
Percent	19.49	71.12	7.40			1.99	100.00
Sample Size	108	394	41			11	554
Mean Length	489	559	498			554	541
Std. Error	3	1	3			9	1
Sample Size	108	394	41			11	554
Sample Period 4: July 15 - July 27							
Males	7,215	50,143	2,164			1,443	60,965
Percent	4.47	31.10	1.34			0.89	37.81
Sample Size	20	139	6			4	169
Mean Length	514	573	522			573	564
Std. Error	8	2	13			9	2
Sample Size	20	139	6			4	169
Females	29,941	59,883	9,018	361		1,082	100,285
Percent	18.57	37.14	5.59	0.22		0.67	62.19
Sample Size	83	166	25	1		3	278
Mean Length	474	532	486	556		502	511
Std. Error	3	2	6			23	1
Sample Size	83	166	25	1		3	278
Both Sexes	37,156	110,026	11,182	361		2,525	161,250
Percent	23.04	68.23	6.93	0.22		1.57	100.00
Sample Size	103	305	31	1		7	447
Mean Length	482	551	493	556		543	531
Std. Error	3	1	5			11	1
Sample Size	103	305	31	1		7	447

- Continued -

Table 36. (p 3 of 3)

	Age Group						Total
	0.3	1.2	1.3	2.2	1.4	2.3	
All Periods Combined:							
Males	198	30,813	143,578	7,759	193	3,198	185,739
Percent	0.04	6.91	32.20	1.74	0.04	0.72	41.65
Sample Size	2	172	712	34	2	13	935
Mean Length	566	512	579	513	573	568	565
Std. Error	6	3	1	5	25	9	1
Sample Size	2	172	711	34	2	13	934
Females		62,980	173,688	19,265	361	3,887	260,181
Percent		14.12	38.95	4.32	0.08	0.87	58.35
Sample Size		268	831	67	1	16	1,183
Mean Length		477	540	490	556	536	521
Std. Error		2	1	3		8	1
Sample Size		268	831	67	1	16	1,183
Both Sexes	198	93,793	317,266	27,024	554	7,085	445,920
Percent	0.04	21.03	71.15	6.06	0.12	1.59	100.00
Sample Size	2	440	1,543	101	3	29	2,118
Mean Length	566	489	558	497	562	550	539
Std. Error	6	2	1	3	25	6	1
Sample Size	2	440	1,542	101	3	29	2,117

Table 37. Age, sex, and size (length in mm and weight in kg) composition of sockeye salmon escapement, Nushagak River, 1994.

	Age Group										Total
	0.2	1.1	0.3	1.2	0.4	1.3	2.2	1.4	2.3	2.4	
Sample Period 1: June 9 - July 5											
Males	1,511	604	35,347	3,021	1,208	34,441		2,115			78,247
Percent	0.94	0.37	21.91	1.87	0.75	21.35		1.31			48.50
Sample Size	5	2	117	10	4	114		7			259
Mean Length	407	321	545	444	614	560		618			546
Std. Error	7		4	11	13	4		9			3
Sample Size	5	2	117	10	4	114		7			259
Females	906		38,368	2,719	1,511	36,556		2,719	302		83,081
Percent	0.56		23.78	1.69	0.94	22.66		1.69	0.19		51.50
Sample Size	3		127	9	5	121		9	1		275
Mean Length	485		536	473	584	539		552	564		536
Std. Error	39		2	14	6	2		10			1
Sample Size	3		126	9	5	121		9	1		274
Both Sexes	2,417	604	73,715	5,740	2,719	70,997		4,834	302		161,328
Percent	1.50	0.37	45.69	3.56	1.69	44.01		3.00	0.19		100.00
Sample Size	8	2	244	19	9	235		16	1		534
Mean Length	436	321	540	458	597	549		581	564		541
Std. Error	15		2	9	6	2		7			1
Sample Size	8	2	243	19	9	235		16	1		533
Sample Period 2: July 6 - August 24											
Males	5,151		48,651	10,303	1,717	71,546		10,303	572	572	148,815
Percent	1.48		13.98	2.96	0.49	20.56		2.96	0.16	0.16	42.76
Sample Size	9		85	18	3	125		18	1	1	260
Mean Length	423		566	438	594	574		609	587	612	559
Std. Error	15		4	13	1	3		5			2
Sample Size	9		85	18	3	124		18	1	1	259
Females	572		71,546	6,296	4,579	100,737	572	13,164	1,717		199,183
Percent	0.16		20.56	1.81	1.32	28.95	0.16	3.78	0.49		57.24
Sample Size	1		125	11	8	176	1	23	3		348
Mean Length	528		538	466	571	541	481	573	527		540
Std. Error			2	12	7	2		3	4		1
Sample Size	1		125	11	8	176	1	23	3		348
Both Sexes	5,723		120,197	16,599	6,296	172,283	572	23,467	2,289	572	347,998
Percent	1.64		34.54	4.77	1.81	49.51	0.16	6.74	0.66	0.16	100.00
Sample Size	10		210	29	11	301	1	41	4	1	608
Mean Length	433		549	449	577	555	481	589	542	612	548
Std. Error	15		2	9	5	1		3	4		1
Sample Size	10		210	29	11	300	1	41	4	1	607

- Continued -

Table 37. (p 2 of 2)

	Age Group										Total
	0.2	1.1	0.3	1.2	0.4	1.3	2.2	1.4	2.3	2.4	
All Periods Combined:											
Males	6,662	604	83,998	13,324	2,925	105,987		12,418	572	572	227,062
Percent	1.31	0.12	16.49	2.62	0.57	20.81		2.44	0.11	0.11	44.58
Sample Size	14	2	202	28	7	239		25	1	1	519
Mean Length	419	321	557	439	602	569		610	587	612	555
Std. Error	11		3	10	5	2		4			2
Sample Size	14	2	202	28	7	238		25	1	1	518
Females	1,478		109,914	9,015	6,090	137,293	572	15,883	2,019		282,264
Percent	0.29		21.58	1.77	1.20	26.96	0.11	3.12	0.40		55.42
Sample Size	4		252	20	13	297	1	32	4		623
Mean Length	502		537	468	574	541	481	570	532		539
Std. Error	39		1	10	6	1		3	4		1
Sample Size	4		251	20	13	297	1	32	4		622
Both Sexes	8,140	604	193,912	22,339	9,015	243,280	572	28,301	2,591	572	509,326
Percent	1.60	0.12	38.07	4.39	1.77	47.77	0.11	5.56	0.51	0.11	100.00
Sample Size	18	2	454	48	20	536	1	57	5	1	1,142
Mean Length	434	321	546	451	583	553	481	588	544	612	546
Std. Error	11		1	7	4	1		3	4		1
Sample Size	18	2	453	48	20	535	1	57	5	1	1,140

Table 38. Age, sex, and size (length in mm and weight in kg) composition of sockeye salmon commercial catch, Togiak River Section, 1994.

	Age Group									Total
	0.3	1.2	0.4	1.3	2.2	1.4	2.3	2.4	3.3	
Sample Period 1: June 8 - July 7										
Males	3,362	1,588	187	18,399	187		654			24,377
Percent	7.00	3.31	0.39	38.33	0.39		1.36			50.78
Sample Size	36	17	2	197	2		7			261
Mean Length	565	514	579	577	528		569			570
Std. Error	4	7	5	2	1		9			1
Sample Size	36	17	2	197	2		7			261
Mean Weight	3.23	2.13	3.87	3.43			2.14			3.29
Std. Error	0.19	0.14		0.07						0.06
Sample Size	6	3	1	51			1			62
Females	2,428	560		18,960	187	467	1,027			23,629
Percent	5.06	1.17		39.50	0.39	0.97	2.14			49.22
Sample Size	26	6		203	2	5	11			253
Mean Length	534	526		545	508	561	548			544
Std. Error	4	21		2	13	6	4			1
Sample Size	26	6		203	2	5	11			253
Mean Weight	2.38			2.67		3.15	2.64			2.65
Std. Error	0.15			0.05		0.15				0.04
Sample Size	5			51		2	1			59
Both Sexes	5,790	2,148	187	37,359	374	467	1,681			48,006
Percent	12.06	4.47	0.39	77.82	0.78	0.97	3.50			100.00
Sample Size	62	23	2	400	4	5	18			514
Mean Length	552	517	579	561	518	561	556			557
Std. Error	3	8	5	1	6	6	5			1
Sample Size	62	23	2	400	4	5	18			514
Mean Weight	2.87	2.13	3.87	3.04		3.15	2.45			2.98
Std. Error	0.13	0.14		0.04		0.15				0.04
Sample Size	11	3	1	102		2	2			121
Sample Period 2: July 8 - July 17										
Males	3,132	2,420		23,778	570	142	2,420			32,462
Percent	4.24	3.28		32.18	0.77	0.19	3.28			43.93
Sample Size	22	17		167	4	1	17			228
Mean Length	572	534		583	549	588	578			578
Std. Error	4	9		2	20		6			2
Sample Size	22	17		167	4	1	17			228
Mean Weight	3.28	2.58		3.50	3.15	4.13	3.57			3.41
Std. Error	0.30	0.17		0.09	0.46		0.34			0.08
Sample Size	4	6		45	4	1	5			65
Females	4,698	2,705	285	28,333	1,566	285	3,417		142	41,431
Percent	6.36	3.66	0.39	38.34	2.12	0.39	4.62		0.19	58.07
Sample Size	33	19	2	199	11	2	24		1	291
Mean Length	539	529	546	553	526	562	554		550	549
Std. Error	4	9	24	2	7	40	5			1
Sample Size	33	19	2	199	11	2	24		1	291
Mean Weight	2.49	2.12		2.90	2.75	3.51	2.79		2.59	2.79
Std. Error	0.17	0.10		0.07			0.20			0.06
Sample Size	5	6		45	1	1	8		1	67
Both Sexes	7,830	5,125	285	52,111	2,136	427	5,837		142	73,893
Percent	10.60	6.94	0.39	70.52	2.89	0.58	7.90		0.19	100.00
Sample Size	55	36	2	366	15	3	41		1	519
Mean Length	552	532	546	567	532	571	564		550	562
Std. Error	3	6	24	1	7	40	4			1
Sample Size	55	36	2	366	15	3	41		1	519
Mean Weight	2.81	2.34		3.17	2.86	3.72	3.11		2.59	3.06
Std. Error	0.16	0.10		0.06	0.46		0.18			0.05
Sample Size	9	12		90	5	2	13		1	132

- Continued -

Table 38. (p 2 of 2)

	Age Group									Total
	0.3	1.2	0.4	1.3	2.2	1.4	2.3	2.4	3.3	
Sample Period 3: July 18 - September 12										
Males	2,812	5,623	402	68,683	803	1,205	15,263	402		95,193
Percent	1.41	2.82	0.20	34.48	0.40	0.60	7.66	0.20		47.78
Sample Size	7	14	1	171	2	3	38	1		237
Mean Length	568	541	613	586	542	574	592	603		584
Std. Error	6	7		2	13	14	3			2
Sample Size	7	14	1	171	2	3	38	1		237
Mean Weight	3.78	3.21		3.71		3.53	4.29			3.77
Std. Error	0.20	0.12		0.10		0.18	0.09			0.07
Sample Size	2	3		40		3	12			60
Females	4,820	10,041		73,905	1,205		14,058			104,029
Percent	2.42	5.04		37.10	0.60		7.06			52.22
Sample Size	12	25		184	3		35			259
Mean Length	529	508		558	529		559			551
Std. Error	6	6		6	13		3			4
Sample Size	12	25		183	3		35			258
Mean Weight	2.81	2.28		2.93			2.87			2.85
Std. Error	0.30	0.07		0.06			0.20			0.06
Sample Size	2	9		47			6			64
Both Sexes	7,632	15,664	402	142,588	2,008	1,205	29,321	402		199,222
Percent	3.83	7.86	0.20	71.57	1.01	0.60	14.72	0.20		100.00
Sample Size	19	39	1	355	5	3	73	1		496
Mean Length	543	520	613	571	534	574	576	603		567
Std. Error	5	5		3	9	14	2			2
Sample Size	19	39	1	354	5	3	73	1		495
Mean Weight	3.17	2.61		3.31		3.53	3.61			3.29
Std. Error	0.21	0.06		0.06		0.18	0.11			0.05
Sample Size	4	12		87		3	18			124
All Periods Combined:										
Males	9,306	9,631	589	110,860	1,560	1,347	18,337	402		152,032
Percent	2.90	3.00	0.18	34.52	0.49	0.42	5.71	0.13		47.34
Sample Size	65	48	3	535	8	4	62	1		726
Mean Length	568	535	602	584	542	575	590	603		580
Std. Error	3	5	5	1	10	14	3			1
Sample Size	65	48	3	535	8	4	62	1		726
Mean Weight	3.41	2.87	3.87	3.62	3.15	3.59	4.12			3.62
Std. Error	0.14	0.09		0.06	0.46	0.18	0.09			0.05
Sample Size	12	12	1	136	4	4	18			187
Females	11,946	13,306	285	121,198	2,958	752	18,502		142	169,089
Percent	3.72	4.14	0.09	37.74	0.92	0.23	5.76		0.04	52.66
Sample Size	71	50	2	586	16	7	70		1	803
Mean Length	534	513	546	555	526	561	557		550	550
Std. Error	3	5	24	4	6	16	3			3
Sample Size	71	50	2	585	16	7	70		1	802
Mean Weight	2.60	2.25		2.88	2.75	3.29	2.84		2.59	2.81
Std. Error	0.14	0.06		0.04		0.15	0.17			0.04
Sample Size	12	15		143	1	3	15		1	190
Both Sexes	21,252	22,937	874	232,058	4,518	2,099	36,839	402	142	321,121
Percent	6.62	7.14	0.27	72.26	1.41	0.65	11.47	0.13	0.04	100.00
Sample Size	136	98	5	1,121	24	11	132	1	1	1,529
Mean Length	549	522	584	569	532	570	573	603	550	564
Std. Error	2	4	15	2	5	11	2			1
Sample Size	136	98	5	1,120	24	11	132	1	1	1,528
Mean Weight	2.95	2.52	3.87	3.23	2.86	3.48	3.48		2.59	3.19
Std. Error	0.10	0.05		0.04	0.46	0.14	0.10			0.03
Sample Size	24	27	1	279	5	7	33		1	377

Table 39. Age, sex, and size (length in mm and weight in kg) composition of sockeye salmon commercial catch, Kulukak Section, Togiak District, 1994.

	Age Group							Total
	0.3	1.2	1.3	2.2	1.4	2.3	3.3	
Sample period: June 13 - August 4								
Males	3,483	757	27,259	606	606	3,029		35,740
Percent	4.54	0.99	35.50	0.79	0.79	3.94		46.55
Sample Size	23	5	180	4	4	20		236
Mean Length	567	519	583	548	616	583		580
Std. Error	4	9	2	18	15	5		2
Sample Size	23	5	180	4	4	20		236
Mean Weight	3.28	2.46	3.59	2.23	4.01	3.76		3.53
Std. Error	0.21	0.20	0.07		0.46	0.57		0.07
Sample Size	5	2	54	1	3	2		67
Females	4,392	2,120	28,774	2,272	757	2,575	151	41,041
Percent	5.72	2.76	37.48	2.96	0.99	3.35	0.20	53.45
Sample Size	29	14	190	15	5	17	1	271
Mean Length	545	515	551	532	564	557	579	548
Std. Error	4	9	1	11	15	7		1
Sample Size	29	14	190	15	5	17	1	271
Mean Weight	2.49	2.40	2.78	2.29	3.37	2.91	2.80	2.72
Std. Error	0.14	0.19	0.04	0.06		0.07		0.03
Sample Size	4	6	52	6	1	2	1	72
Both Sexes	7,875	2,877	56,033	2,878	1,363	5,604	151	76,781
Percent	10.26	3.75	72.98	3.75	1.78	7.30	0.20	100.00
Sample Size	52	19	370	19	9	37	1	507
Mean Length	555	516	566	535	587	571	579	563
Std. Error	3	7	1	9	11	4		1
Sample Size	52	19	370	19	9	37	1	507
Mean Weight	2.84	2.42	3.17	2.28	3.65	3.37	2.80	3.10
Std. Error	0.12	0.15	0.04	0.06	0.46	0.31		0.04
Sample Size	9	8	106	7	4	4	1	139

Table 40. Age, sex, and size (length in mm and weight in kg) composition of sockeye salmon escapement, Togiak River, 1994.

	Age Group								Total
	0.2	1.1	0.3	1.2	1.3	2.2	1.4	2.3	
Sample Period 1: July 7 - July 24									
Males			410	6,014	24,877	410	137	5,331	37,179
Percent			0.58	8.44	34.93	0.58	0.19	7.49	52.21
Sample Size			3	44	182	3	1	39	272
Mean Length			575	500	578	525	595	584	566
Std. Error			15	5	2	35		3	2
Sample Size			3	43	182	3	1	39	271
Females			547	6,698	21,732		137	4,921	34,035
Percent			0.77	9.41	30.52		0.19	6.91	47.79
Sample Size			4	49	159		1	36	249
Mean Length			536	489	542		536	546	532
Std. Error			14	4	2			5	2
Sample Size			4	49	159		1	36	249
Both Sexes			957	12,712	46,609	410	274	10,252	71,214
Percent			1.34	17.85	65.45	0.58	0.38	14.40	100.00
Sample Size			7	93	341	3	2	75	521
Mean Length			553	494	561	525	566	566	550
Std. Error			10	3	2	35		3	1
Sample Size			7	92	341	3	2	75	520
Sample Period 2: July 25 - August 9									
Males	274	1,506	274	17,118	11,367	548	137	1,506	32,730
Percent	0.33	1.80	0.33	20.49	13.61	0.66	0.16	1.80	39.18
Sample Size	2	11	2	125	83	4	1	11	239
Mean Length	522	458	557	505	577	502	586	575	532
Std. Error	6	14	4	3	3	7		7	2
Sample Size	2	11	2	125	83	4	1	11	239
Females	411	1,096	137	34,236	11,504	1,233		2,191	50,808
Percent	0.49	1.31	0.16	40.98	13.77	1.48		2.62	60.82
Sample Size	3	8	1	250	84	9		16	371
Mean Length	467	472	510	487	549	502		548	503
Std. Error	17	6		2	2	11		6	1
Sample Size	3	8	1	250	84	9		16	371
Both Sexes	685	2,602	411	51,354	22,871	1,781	137	3,697	83,538
Percent	0.82	3.11	0.49	61.47	27.38	2.13	0.16	4.43	100.00
Sample Size	5	19	3	375	167	13	1	27	610
Mean Length	489	464	541	493	563	502	586	559	515
Std. Error	10	8	4	2	2	8		5	1
Sample Size	5	19	3	375	167	13	1	27	610

- Continued -

Table 40. (p 2 of 2)

	Age Group								Total ^a
	0.2	1.1	0.3	1.2	1.3	2.2	1.4	2.3	
All Periods Combined:									
Males	274	1,506	684	23,132	36,244	958	274	6,837	69,909
Percent	0.18	0.97	0.44	14.95	23.42	0.62	0.18	4.42	45.17
Sample Size	2	11	5	169	265	7	2	50	511
Mean Length	522	458	568	504	578	511	591	582	550
Std. Error	6	14	9	3	2	16		3	1
Sample Size	2	11	5	168	265	7	2	50	510
Females	411	1,096	684	40,934	33,236	1,233	137	7,112	84,843
Percent	0.27	0.71	0.44	26.45	21.48	0.80	0.09	4.60	54.83
Sample Size	3	8	5	299	243	9	1	52	620
Mean Length	467	472	531	487	544	502	536	546	515
Std. Error	17	6	14	2	2	11		4	1
Sample Size	3	8	5	299	243	9	1	52	620
Both Sexes	685	2,602	1,368	64,066	69,480	2,191	411	13,949	154,752
Percent	0.44	1.68	0.88	41.40	44.90	1.42	0.27	9.01	100.00
Sample Size	5	19	10	468	508	16	3	102	1,131
Mean Length	489	464	549	493	562	506	572	564	531
Std. Error	10	8	8	1	1	9		2	1
Sample Size	5	19	10	467	508	16	3	102	1,130

^a Total does not include 19,420 sockeye salmon counted, in the tributaries and mainstem Togiak River, below the counting towers.

Table 41. Age, sex, and size (length in mm and weight in kg) composition of sockeye salmon escapement, Kulukak River, 1994.

	Age Group							Total ^a
	0.2	1.1	0.3	1.2	1.3	2.2	2.3	
Sample period: July 5 - July 31								
Males		85	1,437	507	6,423	85	169	8,706
Percent		0.41	7.00	2.47	31.27	0.41	0.82	42.39
Sample Size		1	17	6	76	1	2	103
Mean Length		325	566	516	570	530	563	563
Std. Error			7	14	3		3	3
Sample Size		1	17	6	76	1	2	103
Females	423		2,113	1,521	7,607	85	85	11,834
Percent	2.06		10.29	7.41	37.04	0.41	0.41	57.61
Sample Size	5		25	18	90	1	1	140
Mean Length	502		525	489	533	485	530	524
Std. Error	12		3	7	2			2
Sample Size	5		25	18	90	1	1	140
Both Sexes	423	85	3,550	2,028	14,030	170	254	20,540
Percent	2.06	0.41	17.28	9.87	68.31	0.83	1.24	100.00
Sample Size	5	1	42	24	166	2	3	243
Mean Length	502	325	542	496	550	508	552	541
Std. Error	12		3	6	2		3	2
Sample Size	5	1	42	24	166	2	3	243

^a Total escapement count is from aerial survey. Scale samples were taken by USF&WS personnel.

Table 42. Age and size (length in mm and weight in kg) composition of chinook salmon commercial catch, Nushagak District, 1994.

	Age Group						Total
	1.1	1.2	1.3	1.4	1.5	2.4	
Sample Period 1: June 8 - June 18							
Both Sexes		2,453	22,722	31,361	1,173		57,709
Percent		4.25	39.37	54.34	2.03		100.00
Sample Size		23	213	294	11		541
Mean Length		571	749	857	884		803
Std. Error		8	4	4	14		2
Sample Size		23	213	294	11		541
Mean Weight		3.00	9.49	11.70	11.99		10.47
Std. Error		0.25	1.56	0.25	3.03		0.63
Sample Size		2	45	93	3		143
Sample Period 2: June 19 - July 20							
Both Sexes	239	10,428	23,164	27,303	557	80	61,771
Percent	0.39	16.88	37.50	44.20	0.90	0.13	100.00
Sample Size	3	131	291	343	7	1	776
Mean Length	433	569	770	866	912	935	778
Std. Error	14	5	5	4	26		3
Sample Size	3	128	291	341	7	1	771
Mean Weight		4.30	8.85	11.79	10.77	14.05	9.41
Std. Error		0.64	0.32	0.23	0.66		0.19
Sample Size		33	69	120	4	1	227
All Periods Combined:							
Both Sexes	239	12,881	45,886	58,664	1,730	80	119,480
Percent	0.20	10.78	38.40	49.10	1.45	0.07	100.00
Sample Size	3	154	504	637	18	1	1,317
Mean Length	433	569	760	861	893	935	790
Std. Error	14	5	3	3	13		2
Sample Size	3	151	504	635	18	1	1,312
Mean Weight		4.06	9.17	11.74	11.60	14.05	9.92
Std. Error		0.52	0.79	0.17	1.76		0.32
Sample Size		35	114	213	7	1	370

Table 43. Age and size (length in mm and weight in kg) composition of chinook salmon escapement, Nushagak River, 1994.

	Age Group					Total
	1.1	1.2	1.3	1.4	1.5	
Sample period: June 9 - August 4						
Both Sexes	1,170	17,992	33,935	39,785	3,072	95,954
Percent	1.22	18.75	35.37	41.46	3.20	100.00
Sample Size	8	123	232	272	21	656
Mean Length	381	558	761	865	913	766
Std. Error	10	4	5	4	11	3
Sample Size	8	123	232	272	21	656

Table 44. Age and size (length in mm and weight in mm) composition of chinook salmon commercial catch, Togiak River Section, 1994.

	Age Group							Total
	1.1	1.2	1.3	1.4	1.5	2.4	1.6	
Sample period: June 3 - September 8								
Both Sexes	18	1,482	4,080	3,130	550	37	55	9,352
Percent	0.19	15.85	43.63	33.47	5.88	0.40	0.59	100.00
Sample Size	1	81	223	171	30	2	3	511
Mean Length	452	534	755	866	873	883	912	765
Std. Error		5	6	6	12	8	15	4
Sample Size	1	81	222	171	30	2	3	510
Mean Weight		2.96	8.54	12.00	11.46		14.74	9.03
Std. Error		0.23	0.34	0.40	0.98			0.21
Sample Size		19	63	51	11		2	146

Table 45. Age, sex, and size (length in mm and weight in kg) composition of chum salmon commercial catch, Nushagak District, 1994.

	Age Group				Total
	0.2	0.3	0.4	0.5	
Sample Period 1: June 8 - June 30					
Males		16,198	58,680	4,584	79,462
Percent		10.17	36.85	2.88	49.90
Sample Size		53	192	15	260
Mean Length		601	626	632	622
Std. Error		5	2	9	2
Sample Size		53	190	15	258
Mean Weight		3.64	4.10	4.36	4.02
Std. Error		0.10	0.12	0.48	0.10
Sample Size		12	59	4	75
Females		21,699	55,317	2,751	79,767
Percent		13.63	34.74	1.73	50.10
Sample Size		71	181	9	261
Mean Length		580	591	589	588
Std. Error		4	3	10	2
Sample Size		71	181	9	261
Mean Weight		3.44	3.63	3.30	3.57
Std. Error		0.14	0.10	0.44	0.08
Sample Size		22	61	4	87
Both Sexes		37,897	113,997	7,335	159,229
Percent		23.80	71.59	4.61	100.00
Sample Size		124	373	24	521
Mean Length		589	609	616	605
Std. Error		3	2	7	1
Sample Size		124	371	24	519
Mean Weight		3.53	3.87	3.96	3.79
Std. Error		0.09	0.08	0.34	0.06
Sample Size		34	120	8	162
Sample Period 2: July 1 - July 7					
Males		9,897	12,287	1,024	23,208
Percent		12.53	15.55	1.30	29.37
Sample Size		58	72	6	136
Mean Length		577	594	623	588
Std. Error		4	3	14	3
Sample Size		58	72	6	136
Mean Weight		3.51	3.32	4.45	3.45
Std. Error		0.21	0.10		0.10
Sample Size		13	24	1	38
Females	171	27,985	27,133	512	55,801
Percent	0.22	35.42	34.34	0.65	70.63
Sample Size	1	164	159	3	327
Mean Length	533	551	558	575	555
Std. Error		2	2	5	1
Sample Size	1	163	159	3	326
Mean Weight		2.70	2.68		2.69
Std. Error		0.06	0.06		0.04
Sample Size		47	42		89
Both Sexes	171	37,882	39,420	1,536	79,009
Percent	0.22	47.95	49.89	1.94	100.00
Sample Size	1	222	231	9	463
Mean Length	533	558	569	607	564
Std. Error		2	2	10	1
Sample Size	1	221	231	9	462
Mean Weight		2.91	2.88	4.45	2.92
Std. Error		0.07	0.05		0.04
Sample Size		60	66	1	127

- Continued -

Table 45. (p 2 of 2)

	Age Group				Total
	0.2	0.3	0.4	0.5	
Sample Period 3: July 8 - July 20					
Males		13,027	11,864	233	25,124
Percent		14.47	13.18	0.26	27.91
Sample Size		56	51	1	108
Mean Length		571	573	565	572
Std. Error		4	4		3
Sample Size		56	51	1	108
Mean Weight		3.25	3.26	3.43	3.26
Std. Error		0.16	0.14		0.11
Sample Size		8	19	1	28
Females	465	36,291	27,451	698	64,905
Percent	0.52	40.31	30.49	0.78	72.09
Sample Size	2	156	118	3	279
Mean Length	502	540	544	533	541
Std. Error	1	2	2	4	1
Sample Size	2	156	118	3	279
Mean Weight		2.50	2.54	2.40	2.52
Std. Error		0.05	0.08	0.04	0.04
Sample Size		33	27	2	62
Both Sexes	465	49,318	39,315	931	90,029
Percent	0.52	54.78	43.67	1.03	100.00
Sample Size	2	212	169	4	387
Mean Length	502	548	553	541	550
Std. Error	1	2	2	4	1
Sample Size	2	212	169	4	387
Mean Weight		2.70	2.76	2.66	2.72
Std. Error		0.06	0.07	0.04	0.04
Sample Size		41	46	3	90
All Periods Combined:					
Males		39,122	82,831	5,841	127,794
Percent		11.92	25.23	1.78	38.93
Sample Size		167	315	22	504
Mean Length		585	614	628	606
Std. Error		3	2	8	1
Sample Size		167	313	22	502
Mean Weight		3.48	3.86	4.34	3.77
Std. Error		0.09	0.09	0.48	0.07
Sample Size		33	102	6	141
Females	636	85,975	109,901	3,961	200,473
Percent	0.19	26.19	33.48	1.21	61.07
Sample Size	3	391	458	15	867
Mean Length	510	553	571	577	564
Std. Error	1	1	1	7	1
Sample Size	3	390	458	15	866
Mean Weight		2.80	3.12	3.12	2.98
Std. Error		0.05	0.06	0.35	0.04
Sample Size		102	130	6	238
Both Sexes	636	125,097	192,732	9,802	328,267
Percent	0.19	38.11	58.71	2.99	100.00
Sample Size	3	558	773	37	1,371
Mean Length	510	563	590	607	580
Std. Error	1	1	1	6	1
Sample Size	3	557	771	37	1,368
Mean Weight		3.01	3.44	3.89	3.29
Std. Error		0.04	0.05	0.31	0.03
Sample Size		135	232	12	379

Table 46. Age, sex, and size (length in mm and weight in kg) composition of chum salmon escapement, Nushagak River, 1994.

	Age Group				Total
	0.2	0.3	0.4	0.5	
Sample Period 1: June 9 - July 3					
Males		22,121	67,268	1,354	90,743
Percent		8.64	26.28	0.53	35.45
Sample Size		49	149	3	201
Mean Length		585	601	631	597
Std. Error		5	3	8	2
Sample Size		49	149	3	201
Females		61,398	97,515	6,320	165,233
Percent		23.99	38.10	2.47	64.55
Sample Size		136	216	14	366
Mean Length		548	563	568	557
Std. Error		2	2	6	2
Sample Size		134	216	14	364
Both Sexes		83,519	164,783	7,674	255,976
Percent		32.63	64.37	3.00	100.00
Sample Size		185	365	17	567
Mean Length		557	578	579	571
Std. Error		2	2	5	1
Sample Size		183	365	17	565
Sample Period 2: July 4 - August 25					
Males		18,215	26,081	1,656	45,952
Percent		14.81	21.21	1.35	37.37
Sample Size		44	63	4	111
Mean Length		576	591	611	586
Std. Error		5	4	16	3
Sample Size		44	63	4	111
Females	414	31,876	43,882	828	77,000
Percent	0.34	25.93	35.69	0.67	62.63
Sample Size	1	77	106	2	186
Mean Length	514	543	549	565	547
Std. Error		3	2	7	2
Sample Size	1	77	106	2	186
Both Sexes	414	50,091	69,963	2,484	122,952
Percent	0.34	40.74	56.90	2.02	100.00
Sample Size	1	121	169	6	297
Mean Length	514	555	565	596	561
Std. Error		2	2	11	2
Sample Size	1	121	169	6	297

- Continued -

Table 46. (p 2 of 2)

	Age Group				Total
	0.2	0.3	0.4	0.5	
All Periods Combined:					
Males		40,336	93,349	3,010	136,695
Percent		10.64	24.64	0.79	36.07
Sample Size		93	212	7	312
Mean Length		581	598	620	593
Std. Error		3	2	9	2
Sample Size		93	212	7	312
Females	414	93,274	141,397	7,148	242,233
Percent	0.11	24.62	37.32	1.89	63.93
Sample Size	1	213	322	16	552
Mean Length	514	546	559	567	554
Std. Error		2	2	6	1
Sample Size	1	211	322	16	550
Both Sexes	414	133,610	234,746	10,158	378,928
Percent	0.11	35.26	61.95	2.68	100.00
Sample Size	1	306	534	23	864
Mean Length	514	556	574	583	568
Std. Error		2	1	5	1
Sample Size	1	304	534	23	862

Table 47. Age, sex, and size (length in mm and weight in kg) composition of chum salmon commercial catch, Togiak River Section, 1994.

	Age Group				Total
	0.2	0.3	0.4	0.5	
Sample Period 1: June 3 - July 10					
Males		6,259	15,105	2,449	23,813
Percent		11.89	28.68	4.65	45.22
Sample Size		46	111	18	175
Mean Length		590	609	619	605
Std. Error		5	3	7	2
Sample Size		46	111	18	175
Mean Weight		3.80	4.28	4.74	4.20
Std. Error		0.34	0.10	0.19	0.11
Sample Size		9	27	4	40
Females		8,709	18,098	2,041	28,848
Percent		16.54	34.37	3.88	54.78
Sample Size		64	133	15	212
Mean Length		563	568	580	567
Std. Error		3	2	5	2
Sample Size		64	133	15	212
Mean Weight		3.12	2.95	3.28	3.02
Std. Error		0.10	0.07	0.06	0.05
Sample Size		23	32	2	57
Both Sexes		14,968	33,203	4,490	52,661
Percent		28.42	63.05	8.53	100.00
Sample Size		110	244	33	387
Mean Length		574	587	601	584
Std. Error		3	2	4	1
Sample Size		110	244	33	387
Mean Weight		3.40	3.56	4.08	3.56
Std. Error		0.15	0.06	0.10	0.06
Sample Size		32	59	6	97
Sample Period 2: July 11 - July 16					
Males		10,407	7,765	826	18,998
Percent		16.80	12.53	1.33	30.67
Sample Size		63	47	5	115
Mean Length		582	595	588	587
Std. Error		4	5	8	3
Sample Size		63	47	5	115
Mean Weight		3.76	3.85		3.80
Std. Error		0.15	0.20		0.12
Sample Size		17	10		27
Females	165	20,816	19,990	1,982	42,953
Percent	0.27	33.60	32.27	3.20	69.33
Sample Size	1	126	121	12	260
Mean Length	543	555	562	584	559
Std. Error		3	2	7	2
Sample Size	1	126	121	12	260
Mean Weight		2.98	2.83	3.09	2.92
Std. Error		0.09	0.07	0.16	0.06
Sample Size		30	31	4	65
Both Sexes	165	31,223	27,755	2,808	61,951
Percent	0.27	50.40	44.80	4.53	100.00
Sample Size	1	189	168	17	375
Mean Length	543	564	571	585	568
Std. Error		2	2	6	1
Sample Size	1	189	168	17	375
Mean Weight		3.24	3.12	3.09	3.18
Std. Error		0.08	0.07	0.16	0.05
Sample Size		47	41	4	92

- Continued -

Table 47. (p 2 of 2)

	Age Group				Total
	0.2	0.3	0.4	0.5	
Sample Period 3: July 17 - September 12					
Males	274	13,979	7,126	822	22,201
Percent	0.28	14.17	7.22	0.83	22.50
Sample Size	1	51	26	3	81
Mean Length	544	561	572	591	566
Std. Error		4	6	16	3
Sample Size	1	51	26	3	81
Mean Weight		3.11	3.45	3.34	3.23
Std. Error		0.17	0.35	0.62	0.16
Sample Size		11	6	2	19
Females	548	49,610	24,394	1,919	76,471
Percent	0.56	50.28	24.72	1.94	77.50
Sample Size	2	181	89	7	279
Mean Length	524	541	545	549	543
Std. Error	28	2	2	12	1
Sample Size	2	181	89	7	279
Mean Weight		2.63	2.70	2.65	2.65
Std. Error		0.05	0.08	0.25	0.04
Sample Size		42	24	3	69
Both Sexes	822	63,589	31,520	2,741	98,672
Percent	0.83	64.44	31.94	2.78	100.00
Sample Size	3	232	115	10	360
Mean Length	531	546	551	562	548
Std. Error	28	2	2	10	1
Sample Size	3	232	115	10	360
Mean Weight		2.74	2.87	2.86	2.78
Std. Error		0.05	0.10	0.26	0.05
Sample Size		53	30	5	88
All Periods Combined:					
Males	274	30,645	29,996	4,097	65,012
Percent	0.13	14.37	14.06	1.92	30.48
Sample Size	1	160	184	26	371
Mean Length	544	574	597	607	586
Std. Error		3	2	6	2
Sample Size	1	160	184	26	371
Mean Weight		3.47	3.97	4.39	3.75
Std. Error		0.12	0.11	0.21	0.08
Sample Size		37	43	6	86
Females	713	79,135	62,482	5,942	148,272
Percent	0.33	37.10	29.30	2.79	69.52
Sample Size	3	371	343	34	751
Mean Length	528	547	557	571	552
Std. Error	28	1	1	5	1
Sample Size	3	371	343	34	751
Mean Weight		2.78	2.81	3.01	2.80
Std. Error		0.04	0.04	0.10	0.03
Sample Size		95	87	9	191
Both Sexes	987	109,780	92,478	10,039	213,284
Percent	0.46	51.47	43.36	4.71	100.00
Sample Size	4	531	527	60	1,122
Mean Length	533	555	570	586	563
Std. Error	28	1	1	4	1
Sample Size	4	531	527	60	1,122
Mean Weight		2.97	3.19	3.50	3.09
Std. Error		0.04	0.05	0.10	0.03
Sample Size		132	130	15	277

Table 48. Age, sex, and size (length in mm and weight in kg) composition of chum salmon escapement, Kulukak River, 1994.

	Age Group			Total ^a
	0.3	0.4	0.5	
Sample period: July 6 - July 31				
Males	4,544	8,219	2,417	15,180
Percent	14.16	25.60	7.53	47.29
Sample Size	47	85	25	157
Mean Length	590	598	603	596
Std. Error	5	3	7	3
Sample Size	47	85	25	157
Females	8,122	8,025	773	16,920
Percent	25.30	25.00	2.41	52.71
Sample Size	84	83	8	175
Mean Length	548	557	572	553
Std. Error	3	3	7	2
Sample Size	83	83	8	174
Both Sexes	12,666	16,244	3,190	32,100
Percent	39.46	50.60	9.94	100.00
Sample Size	131	168	33	332
Mean Length	563	577	596	573
Std. Error	2	2	6	2
Sample Size	130	168	33	331

^a Total escapement count is from aerial survey. Scale samples were taken by USF&WS personnel.

Table 49. Age, sex, and size (length in mm and weight in kg) composition of coho salmon escapement, Nushagak River, 1994.

	Age Group				Total
	1.1	2.1	3.1	2.2	
Sample period: July 10 - August 25					
Males	2,317	37,071	3,244	154	42,786
Percent	2.82	45.20	3.96	0.19	52.17
Sample Size	15	240	21	1	277
Mean Length	528	559	545	658	557
Std. Error	13	3	10		3
Sample Size	15	240	21	1	277
Females	927	33,518	4,788		39,233
Percent	1.13	40.87	5.84		47.83
Sample Size	6	217	31		254
Mean Length	538	569	578		569
Std. Error	30	3	9		3
Sample Size	6	217	31		254
Both Sexes	3,244	70,589	8,032	154	82,019
Percent	3.96	86.06	9.79	0.19	100.00
Sample Size	21	457	52	1	531
Mean Length	531	564	564	658	563
Std. Error	13	2	7		2
Sample Size	21	457	52	1	531

Table 50. Bristol Bay sockeye salmon run, 1995.

System ^a		Age Class														Total	
		0.2	1.1	0.3	1.2	2.1	0.4	1.3	2.2	3.1	1.4	2.3	3.2	2.4	3.3		3.4
Kvichak	C	0	0	0	1,786,075	0	110	869,174	12,498,420	0	2,341	2,221,809	8,149	0	5,828	0	17,391,906
	E	1,673	0	3,744	798,583	1,673	0	265,955	7,956,929	0	0	1,006,024	4,139	0	0	0	10,038,720
	I	1,673	0	3,744	2,584,658	1,673	110	1,135,129	20,455,349	0	2,341	3,227,833	12,288	0	5,828	0	27,430,626
	S	66	0	342	103,462	31	1	56,757	649,824	0	149	88,361	466	0	153	0	899,612
	T	1,739	0	4,086	2,688,120	1,704	111	1,191,886	21,105,173	0	2,490	3,316,194	12,754	0	5,981	0	28,330,238
Branch	C	0	0	0	134,547	0	3	91,352	198,243	0	60	10,888	0	0	148	0	435,241
	E	0	1,682	0	57,404	3,503	0	26,484	121,734	0	0	4,906	0	0	0	0	215,713
	I	0	1,682	0	191,951	3,503	3	117,836	319,977	0	60	15,794	0	0	148	0	650,954
	S	0	0	0	7,684	65	0	5,892	10,165	0	4	432	0	0	4	0	24,246
	T	0	1,682	0	199,635	3,568	3	123,728	330,142	0	64	16,226	0	0	152	0	675,200
Naknek	C	0	0	0	367,558	0	15	905,855	802,832	0	330	372,296	2,726	0	822	0	2,452,434
	E	0	0	0	157,313	774	0	271,207	500,933	0	0	178,143	1,385	1,385	0	0	1,111,140
	I	0	0	0	524,871	774	15	1,177,062	1,303,765	0	330	550,439	4,111	1,385	822	0	3,563,574
	S	0	0	0	21,010	14	0	58,853	41,418	0	21	15,068	156	124	22	0	136,686
	T	0	0	0	545,881	788	15	1,235,915	1,345,183	0	351	565,507	4,267	1,509	844	0	3,700,260
Egegik	C	5,197	0	2,419	1,225,732	1,308	0	782,064	8,476,325	0	5,235	3,636,297	144,818	2,130	144,454	0	14,425,979
	E	0	125	0	117,924	18,549	0	43,914	826,605	628	125	236,287	18,661	304	3,570	0	1,266,692
	I	5,197	125	2,419	1,343,656	19,857	0	825,978	9,302,930	628	5,360	3,872,584	163,479	2,434	148,024	0	15,692,671
	S	206	0	221	53,786	370	0	41,299	295,535	0	341	106,010	6,196	217	3,893	0	508,073
	T	5,403	125	2,640	1,397,442	20,227	0	867,277	9,598,465	628	5,701	3,978,594	169,675	2,651	151,917	0	16,200,744
Ugashik	C	2,157	0	405	1,322,696	0	1,692	509,444	1,815,741	0	11,162	830,192	5,853	2,864	7,240	0	4,509,446
	E	3,485	2,916	0	632,858	1,330	0	166,048	414,902	0	0	99,569	0	0	0	0	1,321,108
	I	5,642	2,916	405	1,955,554	1,330	1,692	675,492	2,230,643	0	11,162	929,761	5,853	2,864	7,240	0	5,830,554
	S	224	0	37	78,279	25	12	33,775	70,863	0	710	25,452	222	256	190	0	210,044
	T	5,866	2,916	442	2,033,833	1,355	1,704	709,267	2,301,506	0	11,872	955,213	6,075	3,120	7,430	0	6,040,598
Wood	C	4,366	0	5,226	1,538,594	0	2,210	759,769	198,856	0	478	30,151	0	0	0	0	2,539,650
	E	5,257	1,376	3,468	993,461	0	1,090	390,305	78,430	0	999	7,386	0	390	0	0	1,482,162
	I	9,623	1,376	8,694	2,532,055	0	3,300	1,150,074	277,286	0	1,477	37,537	0	390	0	0	4,021,812
	S	381	0	795	101,356	0	24	57,504	8,809	0	94	1,028	0	35	0	0	170,025
	T	10,004	1,376	9,489	2,633,411	0	3,324	1,207,578	286,095	0	1,571	38,565	0	425	0	0	4,191,837
Igushik	C	0	0	908	205,879	0	0	1,036,527	136,954	0	4,500	43,813	0	0	0	0	1,428,581
	E	0	0	0	99,767	0	0	324,166	40,260	0	1,733	7,456	0	0	0	0	473,382
	I	0	0	908	305,646	0	0	1,360,693	177,214	0	6,233	51,269	0	0	0	0	1,901,963
	S	0	0	83	12,235	0	0	68,035	5,630	0	396	1,403	0	0	0	0	87,782
	T	0	0	991	317,881	0	0	1,428,728	182,844	0	6,629	52,672	0	0	0	0	1,989,745
Nuyakuk	E	3,205	0	1,736	28,308	0	1,736	32,180	935	0	801	801	0	0	0	0	69,702
Snake	C	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2,676
	E	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17,380
	I	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	20,056
	S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	T	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	20,056
Nushagak	C	28,771	0	77,457	111,608	0	71,977	159,258	13,068	0	9,845	3,009	0	0	0	0	474,993
	E	52,558	0	48,454	54,009	0	31,730	81,977	4,444	0	7,201	747	187	0	0	0	281,307
	I	81,329	0	125,911	165,617	0	103,707	241,235	17,512	0	17,046	3,756	187	0	0	0	756,300
	S	3,223	0	11,513	6,630	0	751	12,062	556	0	1,084	103	7	0	0	0	35,929
	T	84,552	0	137,424	172,247	0	104,458	253,297	18,068	0	18,130	3,859	194	0	0	0	792,229
Togiak	C	714	0	1,552	115,714	0	1,366	311,970	62,505	0	977	32,344	0	0	0	0	527,142
	E	434	0	904	85,628	0	0	126,215	10,190	0	120	7,735	0	0	0	0	211,226
	I	1,148	0	2,456	181,342	0	1,366	438,185	72,695	0	1,097	40,079	0	0	0	0	738,368
	S	45	0	225	7,259	0	10	21,909	2,309	0	70	1,097	0	0	0	0	32,925
	T	1,193	0	2,681	188,601	0	1,376	460,094	75,004	0	1,167	41,176	0	0	0	0	771,293
Summary	C	41,205	0	87,967	6,808,403	1,308	77,373	5,425,413	24,202,944	0	34,928	7,180,799	161,546	4,994	158,492	0	44,185,372
	E	63,407	6,099	56,570	2,976,947	25,829	32,820	1,696,271	9,954,427	628	10,178	1,548,253	24,372	2,079	3,570	0	16,401,450
	I	104,612	6,099	144,537	9,785,350	27,137	110,193	7,121,684	34,157,371	628	45,106	8,729,052	185,918	7,073	162,062	0	60,586,822
	S	4,146	0	13,216	391,700	505	798	356,086	1,085,109	0	2,868	238,954	7,046	831	4,262	0	2,105,321
	T	108,758	6,099	157,753	10,177,050	27,642	110,991	7,477,770	35,242,480	628	47,974	8,968,006	192,964	7,704	166,324	0	62,692,143

^a C = Catch, E = Escapement, I = Inshore Return, S = South Peninsula Catch, and T = Total. Egegik escapement includes King Salmon River; Ugashik escapement includes King Salmon and Dog Salmon Rivers; Togiak catch is Togiak River Section only and Togiak escapement includes the tower counts, and lower river and tributaries aerial survey estimate. Nuyakuk escapement is not totaled because it is a tributary of Nushagak.

Table 51. Age, sex, and size (length in mm and weight in kg) composition of sockeye salmon commercial catch and escapement, Bristol Bay, 1995.

	Age Group														Total
	0.2	1.1	0.3	1.2	2.1	0.4	1.3	2.2	3.1	1.4	2.3	3.2	2.4	3.3	
Males															
Percent	0.13	0.01	0.08	8.41	0.04	0.07	6.08	28.83	0.00	0.03	7.63	0.13	0.01	0.14	51.59
Sample Size	193	10	94	5,133	71	81	4,443	9,748	2	33	2,952	60	5	51	22,876
Mean Length	437	268	564	511	314	596	572	522	361	583	583	535	600	581	535
Std. Error	3	72	5	1	5	4	1	0		16	1	3		4	0
Sample Size	192	6	94	4,907	62	79	4,355	9,354	2	33	2,877	60	5	49	22,075
Mean Weight	1.61		2.56	2.24		3.96	3.02	2.31		2.99	3.10	2.67		3.14	2.48
Std. Error	0.09		0.36	0.02		0.17	0.04	0.02		0.20	0.04	0.21		0.22	0.01
Sample Size	5		8	457		6	498	902		7	287	4		12	2,186
Females															
Percent	0.04	0.00	0.16	7.74	0.00	0.11	5.74	27.50		0.05	6.76	0.18	0.00	0.13	48.41
Sample Size	46	2	172	5,035	3	123	4,754	9,913		44	2,806	97	2	48	23,045
Mean Length	460	318	536	493	396	564	548	504		563	562	512	591	548	516
Std. Error	11		3	0	46	3	1	0		8	1	3		3	0
Sample Size	45	2	172	4,899	3	123	4,668	9,627		44	2,720	97	2	47	22,449
Mean Weight	1.86		2.37	2.10		2.97	2.78	2.11		2.57	2.71	2.07	3.24	2.52	2.26
Std. Error			0.24	0.02		0.06	0.18	0.01			0.03	0.10		0.09	0.02
Sample Size	2		11	399		15	523	788		4	315	12	1	9	2,079
Both Sexes															
Percent	0.17	0.01	0.24	16.15	0.04	0.18	11.82	56.33	0	0.08	14.39	0.31	0.01	0.27	100.00
Sample Size	239	12	266	10,168	74	204	9,197	19,661	2	77	5,758	157	7	99	45,921
Mean Length	443	279	546	502	316	576	560	513	361	570	573	522	597	565	526
Std. Error	4	72	3	0	5	2	0	0		7	0	2		2	0
Sample Size	237	8	266	9,806	65	202	9,023	18,981	2	77	5,597	157	7	96	44,524
Mean Weight	1.71		2.42	2.17		3.22	2.90	2.21		2.79	2.92	2.18	3.24	2.85	2.37
Std. Error	0.09		0.21	0.01		0.06	0.09	0.01		0.20	0.02	0.09		0.12	0.01
Sample Size	7		19	856		21	1,021	1,690		11	602	16	1	21	4,265

Table 52. Age, sex, and size (length in mm and weight in kg) composition of sockeye salmon commercial catch, Naknek-Kvichak District, 1995.

	Age Group							Total	
	1.2	0.4	1.3	2.2	1.4	2.3	3.2		3.3
Sample Period 1: June 6 - June 21									
Males	2,056		10,150	21,586		8,094		128	42,014
Percent	2.62		12.95	27.54		10.33		0.16	53.61
Sample Size	16		79	168		63		1	327
Mean Length	511		575	521		578		612	545
Std. Error	11		4	2		4			2
Sample Size	16		79	168		63		1	327
Mean Weight	2.14		3.06	2.34		3.41			2.71
Std. Error	0.09		0.10	0.05		0.08			0.04
Sample Size	5		26	52		22			105
Females	2,313	128	7,195	18,887		7,838			36,361
Percent	2.95	0.16	9.18	24.10		10.00			46.39
Sample Size	18	1	56	147		61			283
Mean Length	499	582	567	513		568			535
Std. Error	8		3	3		3			2
Sample Size	18	1	56	147		61			283
Mean Weight	1.90		2.70	2.04		2.75			2.32
Std. Error	0.13		0.06	0.04		0.09			0.03
Sample Size	10		29	71		17			127
Both Sexes	4,369	128	17,345	40,473		15,932		128	78,375
Percent	5.57	0.16	22.13	51.64		20.33		0.16	100.00
Sample Size	34	1	135	315		124		1	610
Mean Length	504	582	572	517		573		612	540
Std. Error	7		3	2		2			1
Sample Size	34	1	135	315		124		1	610
Mean Weight	2.01		2.91	2.20		3.09			2.53
Std. Error	0.08		0.07	0.03		0.06			0.03
Sample Size	15		55	123		39			232
Sample Period 2: June 22 - June 24									
Males	4,692		10,827	27,430		9,023			51,972
Percent	4.30		9.93	25.17		8.28			47.68
Sample Size	13		30	76		25			144
Mean Length	488		577	514		587			537
Std. Error	9		5	3		5			2
Sample Size	13		30	76		25			144
Mean Weight	1.84		2.83	2.17		3.23			2.46
Std. Error			0.25	0.13		0.38			0.11
Sample Size	1		5	15		3			24
Females	4,331		9,384	29,955		13,354			57,024
Percent	3.97		8.61	27.48		12.25			52.32
Sample Size	12		26	83		37			158
Mean Length	496		561	497		565			523
Std. Error	7		4	3		3			2
Sample Size	12		26	83		37			158
Mean Weight	2.18		2.90	1.98		2.84			2.35
Std. Error			0.07	0.09		0.09			0.05
Sample Size	1		6	7		7			21
Both Sexes	9,023		20,211	57,385		22,377			108,996
Percent	8.28		18.54	52.65		20.53			100.00
Sample Size	25		56	159		62			302
Mean Length	492		569	505		573			530
Std. Error	6		3	2		2			1
Sample Size	25		56	159		62			302
Mean Weight	2.00		2.86	2.07		3.00			2.40
Std. Error			0.14	0.08		0.16			0.06
Sample Size	2		11	22		10			45

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Table 52. (p 2 of 8)

	Age Group							Total	
	1.2	0.4	1.3	2.2	1.4	2.3	3.2		3.3
Sample Period 3: June 25 - June 26									
Males	15,561		11,826	123,866		23,653			174,906
Percent	4.67		3.55	37.20		7.10			52.52
Sample Size	25		19	199		38			281
Mean Length	505		589	511		572			524
Std. Error	5		5	2		5			2
Sample Size	25		19	199		38			281
Mean Weight	1.82		2.97	2.24		2.89			2.34
Std. Error	0.20		0.33	0.06		0.16			0.06
Sample Size	2		3	30		6			41
Females	8,092		16,184	106,438		25,520	1,867		158,101
Percent	2.43		4.86	31.96		7.66	0.56		47.48
Sample Size	13		26	171		41	3		254
Mean Length	494		558	501		553	483		514
Std. Error	6		4	2		3	14		1
Sample Size	13		26	171		41	3		254
Mean Weight	2.09		2.61	2.04		2.55			2.18
Std. Error	0.12		0.13	0.05		0.07			0.04
Sample Size	3		8	33		10			54
Both Sexes	23,653		28,010	230,304		49,173	1,867		333,007
Percent	7.10		8.41	69.16		14.77	0.56		100.00
Sample Size	38		45	370		79	3		535
Mean Length	501		571	506		562	483		519
Std. Error	4		3	1		3	14		1
Sample Size	38		45	370		79	3		535
Mean Weight	1.91		2.76	2.15		2.71			2.27
Std. Error	0.14		0.16	0.04		0.08			0.03
Sample Size	5		11	63		16			95
Sample Period 4: June 27									
Males	38,559		38,559	333,532		46,271			456,921
Percent	3.64		3.64	31.51		4.37			43.17
Sample Size	20		20	173		24			237
Mean Length	526		585	526		592			537
Std. Error	5		8	2		7			2
Sample Size	20		20	173		24			237
Mean Weight	2.08			2.07		3.06			2.18
Std. Error	0.11			0.09		0.52			0.09
Sample Size	3			10		2			15
Females	40,487		34,703	447,282		79,045			601,517
Percent	3.83		3.28	42.26		7.47			56.83
Sample Size	21		18	232		41			312
Mean Length	504		570	508		574			520
Std. Error	4		5	1		4			1
Sample Size	21		18	232		41			312
Mean Weight	1.83		2.68	1.99		2.70			2.11
Std. Error	0.03		0.15	0.05		0.28			0.05
Sample Size	2		3	23		3			31
Both Sexes	79,046		73,262	780,814		125,316			1,058,438
Percent	7.47		6.92	73.77		11.84			100.00
Sample Size	41		38	405		65			549
Mean Length	514		578	515		580			527
Std. Error	3		5	1		3			1
Sample Size	41		38	405		65			549
Mean Weight	1.95		2.68	2.02		2.83			2.14
Std. Error	0.06		0.15	0.05		0.26			0.05
Sample Size	5		3	33		5			46

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Table 52. (p 3 of 8)

	Age Group							Total
	1.2	0.4	1.3	2.2	1.4	2.3	3.2	
Sample Period 5: June 28 - June 29								
Males	67,262		72,436	457,900		98,306		695,904
Percent	4.65		5.01	31.66		6.80		48.12
Sample Size	26		28	177		38		269
Mean Length	515		579	520		587		535
Std. Error	7		6	2		6		2
Sample Size	26		28	177		38		269
Mean Weight	2.80		2.98	2.41		3.61		2.68
Std. Error			0.20	0.11		0.39		0.09
Sample Size	1		6	11		3		21
Females	56,914		103,480	468,248		121,589		750,231
Percent	3.94		7.16	32.38		8.41		51.88
Sample Size	22		40	181		47		290
Mean Length	507		562	501		566		521
Std. Error	4		4	2		3		2
Sample Size	22		40	181		47		290
Mean Weight	1.98		2.73	2.06		3.09		2.31
Std. Error	0.18		0.23	0.04		0.09		0.04
Sample Size	3		4	12		6		25
Both Sexes	124,176		175,916	926,148		219,895		1,446,135
Percent	8.59		12.16	64.04		15.21		100.00
Sample Size	48		68	358		85		559
Mean Length	511		569	511		576		528
Std. Error	4		3	2		3		1
Sample Size	48		68	358		85		559
Mean Weight	2.42		2.83	2.23		3.32		2.49
Std. Error	0.18		0.16	0.06		0.18		0.05
Sample Size	4		10	23		9		46
Sample Period 6: June 30								
Males	27,831		20,873	287,587		53,343		389,634
Percent	3.31		2.48	34.16		6.34		46.28
Sample Size	12		9	124		23		168
Mean Length	519		564	518		549		525
Std. Error	10		17	2		9		2
Sample Size	12		9	124		23		168
Females	39,427		11,596	361,803		39,427		452,253
Percent	4.68		1.38	42.98		4.68		53.72
Sample Size	17		5	156		17		195
Mean Length	490		532	502		552		506
Std. Error	7		15	2		7		2
Sample Size	17		5	155		17		194
Both Sexes	67,258		32,469	649,390		92,770		841,887
Percent	7.99		3.86	77.14		11.02		100.00
Sample Size	29		14	280		40		363
Mean Length	502		553	509		550		515
Std. Error	6		12	2		6		2
Sample Size	29		14	279		40		362

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Table 52. (p 4 of 8)

	Age Group							Total
	1.2	0.4	1.3	2.2	1.4	2.3	3.2	
Sample Period 7: July 1 - July 2								
Males	116,335		124,091	624,330		73,679		938,435
Percent	5.63		6.00	30.21		3.56		45.40
Sample Size	30		32	161		19		242
Mean Length	507		566	512		577		524
Std. Error	5		5	2		7		2
Sample Size	30		32	161		19		242
Mean Weight	2.49			2.28		3.20		2.39
Std. Error				0.07		0.16		0.06
Sample Size	1			13		2		16
Females	112,457		77,557	845,367		93,068		1,128,449
Percent	5.44		3.75	40.90		4.50		54.60
Sample Size	29		20	218		24		291
Mean Length	494		563	496		549		505
Std. Error	4		6	2		6		1
Sample Size	29		20	217		24		290
Mean Weight	2.59		2.74	2.01		2.67		2.17
Std. Error			0.03	0.05		0.18		0.04
Sample Size	1		2	21		2		26
Both Sexes	228,792		201,648	1,469,697		166,747		2,066,884
Percent	11.07		9.76	71.11		8.07		100.00
Sample Size	59		52	379		43		533
Mean Length	501		565	503		561		513
Std. Error	3		4	1		5		1
Sample Size	59		52	378		43		532
Mean Weight	2.54		2.74	2.12		2.90		2.26
Std. Error			0.03	0.04		0.13		0.03
Sample Size	2		2	34		4		42
Sample Period 8: July 3 - July 4								
Males	37,945		63,241	325,693		56,917		483,796
Percent	3.52		5.87	30.21		5.28		44.87
Sample Size	12		20	103		18		153
Mean Length	500		579	507		574		524
Std. Error	5		5	3		7		2
Sample Size	12		20	103		18		153
Mean Weight	2.02		3.05	2.11		3.32		2.37
Std. Error	0.03			0.09		0.25		0.07
Sample Size	3		1	10		5		19
Females	53,755		53,755	449,013		37,945		594,468
Percent	4.99		4.99	41.64		3.52		55.13
Sample Size	17		17	142		12		188
Mean Length	496		555	496		563		506
Std. Error	7		5	2		5		2
Sample Size	17		17	142		12		188
Mean Weight	1.84			1.96		2.77		2.00
Std. Error	0.40			0.04		0.13		0.05
Sample Size	2			26		2		30
Both Sexes	91,700		116,996	774,706		94,862		1,078,264
Percent	8.50		10.85	71.85		8.80		100.00
Sample Size	29		37	245		30		341
Mean Length	497		568	501		570		514
Std. Error	5		4	2		5		1
Sample Size	29		37	245		30		341
Mean Weight	1.91		3.05	2.02		3.10		2.18
Std. Error	0.24			0.04		0.16		0.04
Sample Size	5		1	36		7		49

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Table 52. (p 5 of 8)

	Age Group							Total	
	1.2	0.4	1.3	2.2	1.4	2.3	3.2		3.3
Sample Period 9: July 5 - July 6									
Males	166,613		158,419	1,253,692	2,731	273,136			1,854,591
Percent	5.75		5.47	43.30	0.09	9.43			64.06
Sample Size	61		58	459	1	100			679
Mean Length	516		573	523	609	582			536
Std. Error	3		4	1		3			1
Sample Size	60		58	457	1	100			676
Mean Weight	2.24		3.22	2.37		3.11			2.54
Std. Error	0.25		0.15	0.08		0.14			0.06
Sample Size	5		5	35		10			55
Females	109,254		79,209	710,154		136,568	2,731	2,731	1,040,647
Percent	3.77		2.74	24.53		4.72	0.09	0.09	35.94
Sample Size	40		29	260		50	1	1	381
Mean Length	505		554	506		567	489	536	518
Std. Error	4		5	1		3			1
Sample Size	40		29	259		50	1	1	380
Mean Weight	1.81		7.55	1.98		2.69		2.07	2.48
Std. Error	0.02		5.02	0.05		0.16			0.39
Sample Size	3		4	18		6		1	32
Both Sexes	275,867		237,628	1,963,846	2,731	409,704	2,731	2,731	2,895,238
Percent	9.53		8.21	67.83	0.09	14.15	0.09	0.09	100.00
Sample Size	101		87	719	1	150	1	1	1,060
Mean Length	512		567	517	609	577	489	536	529
Std. Error	3		3	1		3			1
Sample Size	100		87	716	1	150	1	1	1,056
Mean Weight	2.07		4.66	2.23		2.97		2.07	2.52
Std. Error	0.15		1.68	0.05		0.11			0.14
Sample Size	8		9	53		16		1	87
Sample Period 10: July 7 - July 8									
Males	113,454		86,759	605,087		124,577			929,877
Percent	6.65		5.08	35.46		7.30			54.50
Sample Size	51		39	272		56			418
Mean Length	514		587	521		582			535
Std. Error	4		5	1		4			1
Sample Size	51		39	272		56			418
Mean Weight	2.16		3.35	2.41		3.12			2.56
Std. Error	0.11		0.16	0.05		0.12			0.04
Sample Size	7		9	53		13			82
Females	135,700		42,267	496,083		102,331			776,381
Percent	7.95		2.48	29.07		6.00			45.50
Sample Size	61		19	223		46			349
Mean Length	499		554	502		558			512
Std. Error	3		5	1		4			1
Sample Size	61		19	223		46			349
Mean Weight	1.98		2.74	2.01		2.63			2.13
Std. Error	0.17		0.22	0.04		0.15			0.05
Sample Size	9		4	39		8			60
Both Sexes	249,154		129,026	1,101,170		226,908			1,706,258
Percent	14.60		7.56	64.54		13.30			100.00
Sample Size	112		58	495		102			767
Mean Length	506		576	513		571			524
Std. Error	2		3	1		3			1
Sample Size	112		58	495		102			767
Mean Weight	2.06		3.15	2.23		2.90			2.36
Std. Error	0.11		0.13	0.03		0.09			0.03
Sample Size	16		13	92		21			142

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Table 52. (p 6 of 8)

	Age Group							Total	
	1.2	0.4	1.3	2.2	1.4	2.3	3.2		3.3
Sample Period 11: July 9 - July 10									
Males	204,836		169,384	933,580		114,236	3,939		1,425,975
Percent	7.56		6.25	34.45		4.22	0.15		52.62
Sample Size	52		43	237		29	1		362
Mean Length	519		584	527		587	533		538
Std. Error	3		3	2		4			1
Sample Size	51		42	237		29	1		360
Mean Weight	2.38		3.07	2.31		2.88			2.46
Std. Error	0.07		0.38	0.07					0.06
Sample Size	9		5	32		1			47
Females	208,775		122,114	768,136		181,201		3,939	1,284,165
Percent	7.70		4.51	28.34		6.69		0.15	47.38
Sample Size	53		31	195		46		1	326
Mean Length	499		555	509		560		547	519
Std. Error	3		4	2		4			1
Sample Size	52		31	194		46		1	324
Mean Weight	1.96		2.50	2.08		2.76			2.20
Std. Error	0.05		0.06	0.07		0.12			0.05
Sample Size	5		4	22		9			40
Both Sexes	413,611		291,498	1,701,716		295,437	3,939	3,939	2,710,140
Percent	15.26		10.76	62.79		10.90	0.15	0.15	100.00
Sample Size	105		74	432		75	1	1	688
Mean Length	509		572	519		571	533	547	529
Std. Error	2		3	1		3			1
Sample Size	103		73	431		75	1	1	684
Mean Weight	2.17		2.83	2.21		2.81			2.33
Std. Error	0.04		0.22	0.05		0.12			0.04
Sample Size	14		9	54		10			87
Sample Period 12: July 11									
Males	119,233		65,461	582,139		105,206			872,039
Percent	9.39		5.16	45.86		8.29			68.69
Sample Size	51		28	249		45			373
Mean Length	520		584	531		582			540
Std. Error	3		5	1		4			1
Sample Size	51		28	249		45			373
Mean Weight	2.26		3.05	2.46		3.12			2.56
Std. Error	0.08		0.26	0.05		0.30			0.06
Sample Size	11		6	42		6			65
Females	65,461		16,365	252,494		60,786	2,338		397,444
Percent	5.16		1.29	19.89		4.79	0.18		31.31
Sample Size	28		7	108		26	1		170
Mean Length	501		558	512		560	518		520
Std. Error	4		9	2		5			2
Sample Size	28		7	108		26	1		170
Mean Weight	2.09			2.08		2.79			2.20
Std. Error	0.20			0.07		0.21			0.07
Sample Size	3			19		4			26
Both Sexes	184,694		81,826	834,633		165,992	2,338		1,269,483
Percent	14.55		6.45	65.75		13.08	0.18		100.00
Sample Size	79		35	357		71	1		543
Mean Length	513		579	525		574	518		533
Std. Error	3		4	1		3			1
Sample Size	79		35	357		71	1		543
Mean Weight	2.20		3.05	2.35		3.00			2.45
Std. Error	0.09		0.26	0.04		0.21			0.04
Sample Size	14		6	61		10			91

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Table 52. (p 7 of 8)

	Age Group							Total
	1.2	0.4	1.3	2.2	1.4	2.3	3.2	
Sample Period 13: July 12 - July 13								
Males	90,880		124,959	670,237		215,839		1,101,915
Percent	6.40		8.80	47.20		15.20		77.60
Sample Size	8		11	59		19		97
Mean Length	516		569	522		572		537
Std. Error	9		6	3		5		2
Sample Size	8		11	59		19		97
Females	22,720		34,080	249,919		11,360		318,079
Percent	1.60		2.40	17.60		0.80		22.40
Sample Size	2		3	22		1		28
Mean Length	485		543	502		547		507
Std. Error	11		7	4				4
Sample Size	2		3	22		1		28
Both Sexes	113,600		159,039	920,156		227,199		1,419,994
Percent	8.00		11.20	64.80		16.00		100.00
Sample Size	10		14	81		20		125
Mean Length	510		563	517		571		530
Std. Error	8		5	3		5		2
Sample Size	10		14	81		20		125
Sample Period 14: July 14 - July 15								
Males	187,317		92,015	824,852		213,607		1,317,791
Percent	10.11		4.96	44.50		11.52		71.10
Sample Size	57		28	251		65		401
Mean Length	515		585	523		582		536
Std. Error	3		4	1		3		1
Sample Size	57		28	251		65		401
Mean Weight	1.84		3.11	2.15		3.12		2.33
Std. Error	0.09		0.30	0.05		0.18		0.05
Sample Size	6		4	45		10		65
Females	88,729		32,863	354,915		59,153		535,660
Percent	4.79		1.77	19.15		3.19		28.90
Sample Size	27		10	108		18		163
Mean Length	502		566	512		558		519
Std. Error	3		5	2		6		2
Sample Size	27		10	108		18		163
Mean Weight	1.71			1.91		2.27		1.92
Std. Error	0.12			0.07		0.31		0.06
Sample Size	3			19		4		26
Both Sexes	276,046		124,878	1,179,767		272,760		1,853,451
Percent	14.89		6.74	63.65		14.72		100.00
Sample Size	84		38	359		83		564
Mean Length	511		580	519		577		531
Std. Error	2		3	1		3		1
Sample Size	84		38	359		83		564
Mean Weight	1.80		3.11	2.08		2.94		2.22
Std. Error	0.07		0.30	0.04		0.16		0.04
Sample Size	9		4	64		14		91

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Table 52. (p 8 of 8)

	Age Group								Total
	1.2	0.4	1.3	2.2	1.4	2.3	3.2	3.3	
Sample Period 15: July 16 - August 4									
Males	72,730		70,998	479,668		102,168			725,564
Percent	5.15		5.02	33.95		7.23			51.35
Sample Size	42		41	277		59			419
Mean Length	514		573	525		578			536
Std. Error	4		4	1		4			1
Sample Size	42		41	277		59			419
Mean Weight	2.20		3.45	2.29		3.10			2.51
Std. Error	0.28		0.13	0.08		0.31			0.07
Sample Size	5		5	45		12			67
Females	74,461		105,631	389,622		117,753			687,467
Percent	5.27		7.48	27.57		8.33			48.65
Sample Size	43		61	225		68			397
Mean Length	491		556	507		554			521
Std. Error	3		2	2		3			1
Sample Size	43		61	223		68			395
Mean Weight	1.99		2.78	2.05		2.80			2.28
Std. Error	0.10		0.07	0.05		0.12			0.04
Sample Size	5		9	41		15			70
Both Sexes	147,191		176,629	869,290		219,921			1,413,031
Percent	10.42		12.50	61.52		15.56			100.00
Sample Size	85		102	502		127			816
Mean Length	502		563	517		565			529
Std. Error	3		2	1		2			1
Sample Size	85		102	500		127			814
Mean Weight	2.09		3.05	2.18		2.94			2.40
Std. Error	0.15		0.07	0.05		0.16			0.04
Sample Size	10		14	86		27			137
All Periods Combined:									
Males	1,265,304		1,119,998	7,551,179	2,731	1,518,055	3,939	128	11,461,334
Percent	6.24		5.52	37.24	0.01	7.49	0.02	0.00	56.52
Sample Size	476		485	2,985	1	621	1	1	4,570
Mean Length	515		577	522	609	579	533	612	534
Std. Error	1		1	1		1			0
Sample Size	474		484	2,983	1	621	1	1	4,565
Mean Weight	2.23		3.15	2.30		3.14			2.47
Std. Error	0.06		0.11	0.02		0.08			0.02
Sample Size	59		75	393		95			622
Females	1,022,876	128	746,383	5,948,316		1,086,938	6,936	6,670	8,818,247
Percent	5.04	0.00	3.68	29.33		5.36	0.03	0.03	43.48
Sample Size	403	1	368	2,471		535	5	2	3,785
Mean Length	498	582	557	504		560	497	542	515
Std. Error	1		1	1		1	14		0
Sample Size	402	1	368	2,465		535	5	2	3,778
Mean Weight	2.00		3.33	2.01		2.74		2.07	2.21
Std. Error	0.05		0.67	0.02		0.05			0.05
Sample Size	50		73	351		93		1	568
Both Sexes	2,288,180	128	1,866,381	13,499,495	2,731	2,604,993	10,875	6,798	20,279,581
Percent	11.28	0.00	9.20	66.57	0.01	12.85	0.05	0.03	100.00
Sample Size	879	1	853	5,456	1	1,156	6	3	8,355
Mean Length	508	582	569	514	609	572	510	544	526
Std. Error	1		1	0		1	14		0
Sample Size	876	1	852	5,448	1	1,156	6	3	8,343
Mean Weight	2.12		3.23	2.17		2.96		2.07	2.35
Std. Error	0.04		0.30	0.02		0.05			0.03
Sample Size	109		148	744		188		1	1,190

Table 53. Age, sex, and size (length in mm and weight in kg) composition of sockeye salmon escapement, Kvichak River, 1995.

	Age Group							Total
	0.2	0.3	1.2	2.1	1.3	2.2	2.3	
Sample Period 1: June 25 - June 28								
Males		29,824		7,101	220,131	39,766		296,822
Percent		4.12		0.98	30.39	5.49		40.98
Sample Size		21		5	155	28		209
Mean Length		504		607	521	595		531
Std. Error		8		9	3	6		2
Sample Size		21		5	155	28		209
Females		42,606		15,622	296,822	72,430		427,480
Percent		5.88		2.16	40.98	10.00		59.02
Sample Size		30		11	209	51		301
Mean Length		518		570	508	576		523
Std. Error		4		11	2	4		1
Sample Size		30		11	209	51		301
Both Sexes		72,430		22,723	516,953	112,196		724,302
Percent		10.00		3.14	71.37	15.49		100.00
Sample Size		51		16	364	79		510
Mean Length		512		581	513	583		526
Std. Error		4		8	1	3		1
Sample Size		51		16	364	79		510
Sample Period 2: June 29 - July 1								
Males		20,787		11,338	298,578	49,133		379,836
Percent		2.35		1.28	33.69	5.54		42.86
Sample Size		11		6	158	26		201
Mean Length		496		593	519	582		528
Std. Error		11		14	2	7		2
Sample Size		11		6	158	26		201
Females		58,582		17,008	391,174	39,684		506,448
Percent		6.61		1.92	44.14	4.48		57.14
Sample Size		31		9	207	21		268
Mean Length		505		561	504	559		510
Std. Error		3		10	2	6		1
Sample Size		31		9	207	21		268
Both Sexes		79,369		28,346	689,752	88,817		886,284
Percent		8.96		3.20	77.83	10.02		100.00
Sample Size		42		15	365	47		469
Mean Length		503		574	510	572		518
Std. Error		4		8	1	5		1
Sample Size		42		15	365	47		469

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Table 53. (p 2 of 4)

	Age Group								Total
	0.2	0.3	1.2	2.1	1.3	2.2	2.3	3.2	
Sample Period 3: July 2 - July 4									
Males		47,411		11,156	538,253		33,467		630,287
Percent		3.17		0.75	36.01		2.24		42.16
Sample Size		17		4	193		12		226
Mean Length		518		596	514		593		520
Std. Error		11		14	2		6		2
Sample Size		17		4	193		12		226
Females		66,933		19,522	733,476		44,622		864,553
Percent		4.48		1.31	49.07		2.99		57.84
Sample Size		24		7	263		16		310
Mean Length		503		559	498		570		504
Std. Error		5		9	1		7		1
Sample Size		24		7	263		16		310
Both Sexes		114,344		30,678	1,271,729		78,089		1,494,840
Percent		7.65		2.05	85.07		5.22		100.00
Sample Size		41		11	456		28		536
Mean Length		509		572	505		580		511
Std. Error		5		8	1		5		1
Sample Size		41		11	456		28		536
Sample Period 4: July 5 - July 8									
Males		72,557		54,418	947,772		204,066		1,278,813
Percent		2.57		1.93	33.55		7.22		45.26
Sample Size		16		12	209		45		282
Mean Length		523		586	527		591		539
Std. Error		11		9	2		4		2
Sample Size		16		12	209		45		282
Females		99,766		31,744	1,197,185		217,670		1,546,365
Percent		3.53		1.12	42.38		7.70		54.74
Sample Size		22		7	264		48		341
Mean Length		509		555	501		562		511
Std. Error		4		11	1		4		1
Sample Size		22		7	263		48		340
Both Sexes		172,323		86,162	2,144,957		421,736		2,825,178
Percent		6.10		3.05	75.92		14.93		100.00
Sample Size		38		19	473		93		623
Mean Length		515		575	512		576		524
Std. Error		5		7	1		3		1
Sample Size		38		19	472		93		622

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Table 53. (p 3 of 4)

	Age Group								Total
	0.2	0.3	1.2	2.1	1.3	2.2	2.3	3.2	
Sample Period 5: July 9 - July 12									
Males			74,887		18,722	831,249	86,120		1,010,978
Percent			3.34		0.84	37.12	3.85		45.15
Sample Size			20		5	222	23		270
Mean Length			509		600	519	587		526
Std. Error			13		6	2	7		2
Sample Size			20		5	222	23		270
Females		3,744	116,075		56,165	1,003,489	48,677		1,228,150
Percent		0.17	5.18		2.51	44.82	2.17		54.85
Sample Size		1	31		15	268	13		328
Mean Length		534	498		581	499	562		505
Std. Error			4		13	2	7		1
Sample Size		1	31		15	268	13		328
Both Sexes		3,744	190,962		74,887	1,834,738	134,797		2,239,128
Percent		0.17	8.53		3.34	81.94	6.02		100.00
Sample Size		1	51		20	490	36		598
Mean Length		534	502		586	508	578		514
Std. Error			6		10	1	5		1
Sample Size		1	51		20	490	36		598
Sample Period 6: July 13 - July 16									
Males	1,673		38,479	1,673	3,346	257,643	25,095		327,909
Percent	0.20		4.54	0.20	0.39	30.37	2.96		38.66
Sample Size	1		23	1	2	154	15		196
Mean Length	410		484	331	591	517	588		518
Std. Error			11		19	2	9		2
Sample Size	1		23	1	2	154	15		196
Females			46,844		5,019	429,963	36,806	1,673	520,305
Percent			5.52		0.59	50.69	4.34	0.20	61.34
Sample Size			28		3	257	22	1	311
Mean Length			492		567	495	563	479	500
Std. Error			6		9	1	5		1
Sample Size			28		3	257	22	1	311
Both Sexes	1,673		85,323	1,673	8,365	687,606	61,901	1,673	848,214
Percent	0.20		10.06	0.20	0.99	81.07	7.30	0.20	100.00
Sample Size	1		51	1	5	411	37	1	507
Mean Length	410		488	331	576	503	573	479	507
Std. Error			6		9	1	5		1
Sample Size	1		51	1	5	411	37	1	507

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Table 53. (p 4 of 4)

	Age Group								Total	
	0.2	0.3	1.2	2.1	1.3	2.2	2.3	3.2		
Sample Period 7: July 17 - July 26										
Males			41,916		4,931	320,533	54,244			421,624
Percent			4.11		0.48	31.40	5.31			41.30
Sample Size			17		2	130	22			171
Mean Length			505		609	527	590			534
Std. Error			12		5	2	5			2
Sample Size			17		2	130	22			171
Females			41,916		9,863	490,661	54,244	2,466		599,150
Percent			4.11		0.97	48.07	5.31	0.24		58.70
Sample Size			17		4	199	22	1		243
Mean Length			497		569	499	548	503		504
Std. Error			7		11	2	6			2
Sample Size			17		4	199	22	1		243
Both Sexes			83,832		14,794	811,194	108,488	2,466		1,020,774
Percent			8.21		1.45	79.47	10.63	0.24		100.00
Sample Size			34		6	329	44	1		414
Mean Length			501		582	510	569	503		516
Std. Error			7		8	1	4			1
Sample Size			34		6	329	44	1		414
All Periods Combined:										
Males	1,673		325,861	1,673	111,012	3,414,159	491,891			4,346,269
Percent	0.02		3.25	0.02	1.11	34.01	4.90			43.30
Sample Size	1		125	1	36	1,221	171			1,555
Mean Length	410		509	331	593	521	590			530
Std. Error			5		5	1	2			1
Sample Size	1		125	1	36	1,221	171			1,555
Females		3,744	472,722		154,943	4,542,770	514,133	4,139		5,692,451
Percent		0.04	4.71		1.54	45.25	5.12	0.04		56.70
Sample Size		1	183		56	1,667	193	2		2,102
Mean Length		534	503		568	500	563	493		508
Std. Error			2		6	1	2			1
Sample Size		1	183		56	1,666	193	2		2,101
Both Sexes	1,673	3,744	798,583	1,673	265,955	7,956,929	1,006,024	4,139		10,038,720
Percent	0.02	0.04	7.96	0.02	2.65	79.26	10.02	0.04		100.00
Sample Size	1	1	308	1	92	2,888	364	2		3,657
Mean Length	410	534	505	331	578	509	576	493		517
Std. Error			2		4	0	2			0
Sample Size	1	1	308	1	92	2,887	364	2		3,656

Table 54. Age, sex, and size (length in mm and weight in kg) composition of sockeye salmon escapement, Naknek River, 1995.

	Age Group							Total
	1.2	2.1	1.3	2.2	2.3	3.2	2.4	
Sample Period 1: June 22 - June 27								
Males	18,147		31,611	53,856	11,708			115,322
Percent	8.03		13.99	23.83	5.18			51.04
Sample Size	31		54	92	20			197
Mean Length	470		570	485	577			515
Std. Error	6		5	3	5			2
Sample Size	30		54	92	20			196
Females	8,195		44,490	29,269	28,684			110,638
Percent	3.63		19.69	12.95	12.69			48.96
Sample Size	14		76	50	49			189
Mean Length	483		548	494	567			534
Std. Error	8		9	4	3			4
Sample Size	14		76	50	49			189
Both Sexes	26,342		76,101	83,125	40,392			225,960
Percent	11.66		33.68	36.79	17.88			100.00
Sample Size	45		130	142	69			386
Mean Length	474		557	488	570			524
Std. Error	5		6	3	3			2
Sample Size	44		130	142	69			385
Sample Period 2: June 28 - July 6								
Males	19,360	774	50,336	85,184	31,750			187,404
Percent	4.73	0.19	12.31	20.83	7.77			45.83
Sample Size	25	1	65	110	41			242
Mean Length	487	342	576	486	575			525
Std. Error	9		3	3	5			2
Sample Size	25	1	65	110	41			242
Females	34,074		46,464	94,476	46,464			221,478
Percent	8.33		11.36	23.11	11.36			54.17
Sample Size	44		60	122	60			286
Mean Length	490		550	492	557			517
Std. Error	5		3	2	4			2
Sample Size	44		60	122	60			286
Both Sexes	53,434	774	96,800	179,660	78,214			408,882
Percent	13.07	0.19	23.67	43.94	19.13			100.00
Sample Size	69	1	125	232	101			528
Mean Length	489	342	564	489	564			521
Std. Error	5		2	2	3			1
Sample Size	69	1	125	232	101			528

- Continued -

Table 54. (p 2 of 2)

	Age Group							Total
	1.2	2.1	1.3	2.2	2.3	3.2	2.4	
Sample Period 3: July 7 - July 21								
Males	40,153		40,153	95,537	22,153		1,385	199,381
Percent	8.43		8.43	20.06	4.65		0.29	41.86
Sample Size	29		29	69	16		1	144
Mean Length	477		582	489	585		589	517
Std. Error	6		4	5	5			3
Sample Size	29		29	69	16		1	144
Females	37,384		58,153	142,611	37,384	1,385		276,917
Percent	7.85		12.21	29.94	7.85	0.29		58.14
Sample Size	27		42	103	27	1		200
Mean Length	491		554	496	565	441		517
Std. Error	5		4	2	4			2
Sample Size	27		42	103	27	1		200
Both Sexes	77,537		98,306	238,148	59,537	1,385	1,385	476,298
Percent	16.28		20.64	50.00	12.50	0.29	0.29	100.00
Sample Size	56		71	172	43	1	1	344
Mean Length	483		566	493	573	441	589	517
Std. Error	4		3	2	3			1
Sample Size	56		71	172	43	1	1	344
All Periods Combined:								
Males	77,660	774	122,100	234,577	65,611		1,385	502,107
Percent	6.99	0.07	10.99	21.11	5.90		0.12	45.19
Sample Size	85	1	148	271	77		1	583
Mean Length	478	342	577	487	579		589	519
Std. Error	4		2	2	3			1
Sample Size	84	1	148	271	77		1	582
Females	79,653		149,107	266,356	112,532	1,385		609,033
Percent	7.17		13.42	23.97	10.13	0.12		54.81
Sample Size	85		178	275	136	1		675
Mean Length	490		551	494	562	441		520
Std. Error	3		3	2	2			1
Sample Size	85		178	275	136	1		675
Both Sexes	157,313	774	271,207	500,933	178,143	1,385	1,385	1,111,140
Percent	14.16	0.07	24.41	45.08	16.03	0.12	0.12	100.00
Sample Size	170	1	326	546	213	1	1	1,258
Mean Length	484	342	563	491	568	441	589	520
Std. Error	3		2	1	2			1
Sample Size	169	1	326	546	213	1	1	1,257

Table 55. Age, sex, and size (length in mm and weight in kg) composition of sockeye salmon commercial catch, Egegik District, 1995.

	Age Group											Total
	0.2	0.3	1.2	2.1	1.3	2.2	1.4	2.3	3.2	2.4	3.3	
Sample Period 1: June 6 - June 22												
Males		7,638	7,355	49,223		17,822		566		566		83,170
Percent		4.97	4.79	32.04		11.60		0.37		0.37		54.14
Sample Size		27	26	174		63		2		2		294
Mean Length		514	578	524		580		564		590		541
Std. Error		4	6	2		4		6		19		2
Sample Size		27	26	174		63		2		2		294
Mean Weight		2.21	3.43	2.45		3.25						2.69
Std. Error		0.11	0.13	0.07		0.20						0.06
Sample Size		4	5	23		6						38
Females		4,526	9,901	38,756		16,125		283		849		70,440
Percent		2.95	6.45	25.23		10.50		0.18		0.55		45.86
Sample Size		16	35	137		57		1		3		249
Mean Length		512	553	516		564		505		575		532
Std. Error		5	5	2		4				8		2
Sample Size		16	35	136		57		1		3		248
Mean Weight		2.02	2.74	2.05		2.96		2.08				2.36
Std. Error		0.09	0.12	0.07		0.19						0.06
Sample Size		7	7	15		5		1				35
Both Sexes		12,164	17,256	87,979		33,947		849		1,415		153,610
Percent		7.92	11.23	57.27		22.10		0.55		0.92		100.00
Sample Size		43	61	311		120		3		5		543
Mean Length		513	564	521		572		544		581		537
Std. Error		3	4	1		3		6		9		1
Sample Size		43	61	310		120		3		5		542
Mean Weight		2.14	3.03	2.27		3.11		2.08				2.54
Std. Error		0.08	0.09	0.05		0.14						0.04
Sample Size		11	12	38		11		1				73
Sample Period 2: June 23 - June 26												
Males		59,864	40,496	406,724		117,968		5,282		5,282		635,616
Percent		4.44	3.00	30.16		8.75		0.39		0.39		47.13
Sample Size		34	23	231		67		3		3		361
Mean Length		523	547	538		557		578		554		541
Std. Error		4	7	2		5		21		26		2
Sample Size		34	23	229		67		3		3		359
Mean Weight		2.11	2.25	2.63		2.37				2.79		2.51
Std. Error		0.06		0.14		0.10				0.73		0.09
Sample Size		3	1	18		4				2		28
Females		59,864	35,214	484,196		128,532		5,282				713,088
Percent		4.44	2.61	35.90		9.53		0.39				52.87
Sample Size		34	20	275		73		3				405
Mean Length		510	546	528		545		507				530
Std. Error		4	6	2		4		7				2
Sample Size		34	20	275		73		3				405
Mean Weight		1.99	2.52	2.24		2.27		1.63				2.23
Std. Error		0.11	0.23	0.07		0.14						0.05
Sample Size		5	3	33		11		1				53
Both Sexes		119,728	75,710	890,920		246,500		10,564		5,282		1,348,704
Percent		8.88	5.61	66.06		18.28		0.78		0.39		100.00
Sample Size		68	43	506		140		6		3		766
Mean Length		516	547	532		551		542		554		535
Std. Error		3	5	2		3		11		26		1
Sample Size		68	43	504		140		6		3		764
Mean Weight		2.05	2.38	2.42		2.32		1.63		2.79		2.36
Std. Error		0.06	0.23	0.07		0.08				0.73		0.05
Sample Size		8	4	51		15		1		2		81

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Table 55. (p 2 of 7)

	Age Group										Total	
	0.2	0.3	1.2	2.1	1.3	2.2	1.4	2.3	3.2	2.4		3.3
Sample Period: June 27 - June 29												
Males		111,252			29,022	633,650		181,389	12,093		2,419	969,825
Percent		5.91			1.54	33.68		9.64	0.64		0.13	51.54
Sample Size		46			12	262		75	5		1	401
Mean Length		517			586	525		581	526		632	536
Std. Error		3			5	1		3	8			1
Sample Size		46			12	262		75	5		1	401
Mean Weight		2.36			3.37	2.35		3.23				2.55
Std. Error		0.01			0.09	0.07		0.17				0.06
Sample Size		3			3	28		9				43
Females	2,419	82,230			38,696	611,883		164,459	7,256		4,837	911,780
Percent	0.13	4.37			2.06	32.52		8.74	0.39		0.26	48.46
Sample Size	1	34			16	253		68	3		2	377
Mean Length	550	498			553	510		566	504		568	521
Std. Error		5			9	1		2	14		5	1
Sample Size	1	34			16	253		68	3		2	377
Mean Weight		1.76			2.44	2.03		2.66			2.69	2.14
Std. Error		0.11			0.09	0.05		0.08				0.04
Sample Size		3			1	31		11			1	47
Both Sexes	2,419	193,482			67,718	1,245,533		345,848	19,349		7,256	1,881,605
Percent	0.13	10.28			3.60	66.20		18.38	1.03		0.39	100.00
Sample Size	1	80			28	515		143	8		3	778
Mean Length	550	509			567	517		574	518		589	529
Std. Error		3			5	1		2	7		5	1
Sample Size	1	80			28	515		143	8		3	778
Mean Weight		2.10			2.84	2.19		2.96			2.69	2.35
Std. Error		0.05			0.09	0.04		0.10				0.03
Sample Size		6			4	59		20			1	90
Sample Period: June 30												
Males	1,753	42,067			19,281	289,207		78,875	5,258			436,441
Percent	0.18	4.44			2.03	30.50		8.32	0.55			46.03
Sample Size	1	24			11	165		45	3			249
Mean Length	452	514			569	525		584	540			536
Std. Error		5			9	2		4	12			2
Sample Size	1	24			11	163		43	3			245
Mean Weight		1.99			2.62	2.54		3.02				2.58
Std. Error						0.10		0.23				0.08
Sample Size		1			1	22		5				29
Females		61,347			26,292	345,297		73,617	5,258			511,811
Percent		6.47			2.77	36.41		7.76	0.55			53.97
Sample Size		35			15	197		42	3			292
Mean Length		505			546	507		549	512			515
Std. Error		3			6	2		5	6			1
Sample Size		35			15	195		42	3			290
Mean Weight		2.12			2.59	2.10		2.37				2.17
Std. Error		0.18			0.22	0.07		0.22				0.06
Sample Size		4			2	34		10				50
Both Sexes	1,753	103,414			45,573	634,504		152,492	10,516			948,252
Percent	0.18	10.91			4.81	66.91		16.08	1.11			100.00
Sample Size	1	59			26	362		87	6			541
Mean Length	452	509			556	515		567	526			525
Std. Error		3			5	1		3	6			1
Sample Size	1	59			26	358		85	6			535
Mean Weight		2.07			2.60	2.30		2.71				2.36
Std. Error		0.18			0.22	0.06		0.16				0.05
Sample Size		5			3	56		15				79

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Table 55. (p 3 of 7)

	Age Group										Total	
	0.2	0.3	1.2	2.1	1.3	2.2	1.4	2.3	3.2	2.4		3.3
Sample Period 5: July 1 - July 2												
Males		69,620			31,495	397,829		101,115	1,658		4,973	606,690
Percent		6.81			3.08	38.90		9.89	0.16		0.49	59.32
Sample Size		42			19	240		61	1		3	366
Mean Length		514			577	520		582	511		601	533
Std. Error		5			10	2		4			8	2
Sample Size		21			9	124		38	1		2	195
Mean Weight		2.18			1.88	2.28		3.31			3.50	2.43
Std. Error		0.07			0.07	0.08		0.17				0.06
Sample Size		8			1	25		9			1	44
Females		29,837			23,207	246,986		111,061	3,315		1,658	416,064
Percent		2.92			2.27	24.15		10.86	0.32		0.16	40.68
Sample Size		18			14	149		67	2		1	251
Mean Length		503			553	513		565	528			527
Std. Error		6			7	2		3	3			2
Sample Size		9			6	97		42	2			156
Mean Weight		2.03			2.55	2.18		2.99				2.41
Std. Error		0.01			0.01	0.11		0.13				0.07
Sample Size		2			1	22		12				37
Both Sexes		99,457			54,702	644,815		212,176	4,973		6,631	1,022,754
Percent		9.72			5.35	63.05		20.75	0.49		0.65	100.00
Sample Size		60			33	389		128	3		4	617
Mean Length		511			567	517		573	522		601	531
Std. Error		4			6	2		2	3		8	1
Sample Size		30			15	221		80	3		2	351
Mean Weight		2.14			2.16	2.24		3.14			3.50	2.42
Std. Error		0.05				0.06		0.10				0.05
Sample Size		10			2	47		21			1	81
Sample Period 6: July 3 - July 4												
Males		103,322			65,437	613,041		268,636	3,444			1,053,880
Percent		5.86			3.71	34.77		15.23	0.20			59.77
Sample Size		30			19	178		78	1			306
Mean Length		519			580	533		590	530			549
Std. Error		3			6	2		3				1
Sample Size		30			19	178		78	1			306
Mean Weight		2.32			3.17	2.43		3.26				2.68
Std. Error		0.12			0.24	0.05		0.14				0.05
Sample Size		3			5	34		14				56
Females	3,444	61,993			30,996	409,842		199,755	3,444			709,474
Percent	0.20	3.52			1.76	23.24		11.33	0.20			40.23
Sample Size	1	18			9	119		58	1			206
Mean Length	475	508			568	514		572	554			532
Std. Error		4			5	2		2				1
Sample Size	1	18			9	119		58	1			206
Mean Weight		1.94				2.02		2.83				2.25
Std. Error		0.14				0.05		0.12				0.05
Sample Size		2				18		12				32
Both Sexes	3,444	165,315			96,433	1,022,883		468,391	6,888			1,763,354
Percent	0.20	9.38			5.47	58.01		26.56	0.39			100.00
Sample Size	1	48			28	297		136	2			512
Mean Length	475	515			576	526		583	542			543
Std. Error		2			5	1		2				1
Sample Size	1	48			28	297		136	2			512
Mean Weight		2.18			3.17	2.27		3.08				2.51
Std. Error		0.09			0.24	0.04		0.10				0.04
Sample Size		5			5	52		26				88

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Table 55. (p 4 of 7)

	Age Group											Total
	0.2	0.3	1.2	2.1	1.3	2.2	1.4	2.3	3.2	2.4	3.3	
Sample Period 7: July 5 - July 6												
Males		58,923			29,461	414,096		176,768	4,910		4,910	689,068
Percent		4.39			2.20	30.85		13.17	0.37		0.37	51.34
Sample Size		36			18	253		108	3		3	421
Mean Length		526			588	538		594	532		587	554
Std. Error		5			6	2		2	8		11	1
Sample Size		36			18	252		108	3		3	420
Mean Weight		2.31			3.23	2.56		3.43				2.79
Std. Error		0.10			0.13	0.06		0.11				0.05
Sample Size		3			2	30		13				48
Females		42,555			32,735	384,634	1,637	173,494	14,731		3,273	653,059
Percent		3.17			2.44	28.66	0.12	12.93	1.10		0.24	48.66
Sample Size		26			20	235	1	106	9		2	399
Mean Length		513			571	521	600	572	535		632	538
Std. Error		4			5	1		2	6		20	1
Sample Size		26			20	235	1	106	9		2	399
Mean Weight		2.15			2.76	2.05		2.74	2.17			2.28
Std. Error		0.01			0.22	0.04		0.07	0.20			0.03
Sample Size		3			2	21		15	2			43
Both Sexes		101,478			62,196	798,730	1,637	350,262	19,641		8,183	1,342,127
Percent		7.56			4.63	59.51	0.12	26.10	1.46		0.61	100.00
Sample Size		62			38	488	1	214	12		5	820
Mean Length		520			579	530	600	583	534		605	546
Std. Error		3			4	1		2	5		10	1
Sample Size		62			38	487	1	214	12		5	819
Mean Weight		2.24			2.98	2.31		3.09	2.17			2.54
Std. Error		0.06			0.13	0.04		0.07	0.20			0.03
Sample Size		6			4	51		28	2			91
Sample Period 8: July 7												
Males		53,221			34,213	309,819	1,901	161,562	5,702		1,901	568,319
Percent		5.81			3.73	33.82	0.21	17.63	0.62		0.21	62.03
Sample Size		28			18	163	1	85	3		1	299
Mean Length		528			580	536	567	588	553		602	553
Std. Error		6			6	2		3	6			1
Sample Size		28			18	160	1	83	3		1	294
Mean Weight		2.35			3.39	2.55	3.14	3.28	2.59		3.12	2.79
Std. Error		0.08			0.44	0.06		0.10	0.21			0.05
Sample Size		3			2	28	1	12	2		1	49
Females		30,412			24,710	184,370		104,540	1,901		1,901	347,834
Percent		3.32			2.70	20.12		11.41	0.21		0.21	37.97
Sample Size		16			13	97		55	1		1	183
Mean Length		515			559	517		569	500		582	536
Std. Error		4			4	3		4				2
Sample Size		15			13	96		55	1		1	181
Mean Weight		1.99			2.77	2.11		2.82			2.69	2.36
Std. Error		0.01				0.06		0.10				0.04
Sample Size		2			1	7		10			1	21
Both Sexes		83,633			58,923	494,189	1,901	266,102	7,603		3,802	916,153
Percent		9.13			6.43	53.94	0.21	29.05	0.83		0.41	100.00
Sample Size		44			31	260	1	140	4		2	482
Mean Length		523			571	529	567	580	540		592	546
Std. Error		4			4	2		2	6			1
Sample Size		43			31	256	1	138	4		2	475
Mean Weight		2.22			3.13	2.39	3.14	3.10	2.59		2.91	2.63
Std. Error		0.05			0.44	0.04		0.07	0.21			0.04
Sample Size		5			3	35	1	22	2		2	70

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Table 55. (p 5 of 7)

	Age Group											Total
	0.2	0.3	1.2	2.1	1.3	2.2	1.4	2.3	3.2	2.4	3.3	
Sample Period 9: July 8 - July 9												
Males		26,162	1,308		18,313	204,063		119,037	10,465		2,616	381,964
Percent		3.80	0.19		2.66	29.66		17.30	1.52		0.38	55.51
Sample Size		20	1		14	156		91	8		2	292
Mean Length		511	338		573	527		586	543		610	547
Std. Error		7			8	2		3	6		5	1
Sample Size		20	1		14	156		91	8		2	292
Mean Weight		2.30				2.42		3.16			3.49	2.67
Std. Error		0.10				0.06		0.11				0.05
Sample Size		4				35		11			1	51
Females		28,778			9,157	198,831		62,789	5,232		1,308	306,095
Percent		4.18			1.33	28.90		9.13	0.76		0.19	44.49
Sample Size		22			7	152		48	4		1	234
Mean Length		501			546	510		565	513		557	522
Std. Error		4			4	2		3	6			1
Sample Size		22			7	152		48	4		1	234
Mean Weight		2.01			2.61	1.94		2.69	2.10			2.12
Std. Error		0.10				0.04		0.08	0.23			0.03
Sample Size		4			1	22		12	2			41
Both Sexes		54,940	1,308		27,470	402,894		181,826	15,697		3,924	688,059
Percent		7.98	0.19		3.99	58.56		26.43	2.28		0.57	100.00
Sample Size		42	1		21	308		139	12		3	526
Mean Length		506	338		564	519		579	533		592	536
Std. Error		4			6	1		2	4		5	1
Sample Size		42	1		21	308		139	12		3	526
Mean Weight		2.15			2.61	2.18		3.00	2.10		3.49	2.42
Std. Error		0.07				0.04		0.07	0.23			0.03
Sample Size		8			1	57		23	2		1	92
Sample Period 10: July 10 - July 11												
Males		74,676			50,915	398,836		220,632	3,394		10,183	758,636
Percent		5.39			3.67	28.76		15.91	0.24		0.73	54.71
Sample Size		44			30	235		130	2		6	447
Mean Length		520			576	533		583	510		589	550
Std. Error		3			5	1		2	15		9	1
Sample Size		44			30	235		130	2		6	447
Mean Weight		2.30			2.99	2.28		3.07			3.35	2.58
Std. Error		0.10			0.15	0.12		0.16				0.08
Sample Size		11			10	37		16			1	75
Females		61,098			35,641	346,223	1,697	162,929	13,577		6,789	627,954
Percent		4.41			2.57	24.97	0.12	11.75	0.98		0.49	45.29
Sample Size		36			21	204	1	96	8		4	370
Mean Length		499			556	507	571	566	522		560	525
Std. Error		4			6	1		2	5		6	1
Sample Size		36			21	204	1	96	8		4	370
Mean Weight		1.89			2.39	1.95		2.66	2.17		2.69	2.17
Std. Error		0.07			0.26	0.07		0.09	0.16			0.05
Sample Size		7			3	37		13	3		1	64
Both Sexes		135,774			86,556	745,059	1,697	383,561	16,971		16,972	1,386,590
Percent		9.79			6.24	53.73	0.12	27.66	1.22		1.22	100.00
Sample Size		80			51	439	1	226	10		10	817
Mean Length		511			568	521	571	576	519		577	539
Std. Error		2			4	1		1	5		6	1
Sample Size		80			51	439	1	226	10		10	817
Mean Weight		2.12			2.74	2.13		2.90	2.17		3.09	2.39
Std. Error		0.06			0.14	0.07		0.10	0.16			0.05
Sample Size		18			13	74		29	3		2	139

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Table 55. (p 6 of 7)

	Age Group										Total	
	0.2	0.3	1.2	2.1	1.3	2.2	1.4	2.3	3.2	2.4		3.3
Sample Period 11: July 12 - July 13												
Males			32,982		24,302	270,796		109,360	1,736		8,679	447,855
Percent			3.54		2.61	29.10		11.75	0.19		0.93	48.13
Sample Size			19		14	156		63	1		5	258
Mean Length			519		573	533		575	577		571	545
Std. Error			4		8	2		4			4	2
Sample Size			19		14	156		63	1		5	258
Mean Weight			2.35		3.25	2.50		3.17			2.93	2.70
Std. Error			0.09		0.36	0.08		0.14			0.06	0.06
Sample Size			4		3	22		9			2	40
Females			31,246		20,830	267,326		149,285	6,943		6,943	482,573
Percent			3.36		2.24	28.73		16.04	0.75		0.75	51.87
Sample Size			18		12	154		86	4		4	278
Mean Length			496		555	511		561	521		559	528
Std. Error			5		9	2		3	7		9	1
Sample Size			18		12	154		86	4		4	278
Mean Weight			2.12		2.74	2.08		2.49	2.04		2.52	2.24
Std. Error			0.10		0.35	0.04		0.10	0.18		0.01	0.04
Sample Size			4		2	29		14	2		2	53
Both Sexes			64,228		45,132	538,122		258,645	8,679		15,622	930,428
Percent			6.90		4.85	57.84		27.80	0.93		1.68	100.00
Sample Size			37		26	310		149	5		9	536
Mean Length			508		565	522		566	532		566	536
Std. Error			3		6	1		2	7		5	1
Sample Size			37		26	310		149	5		9	536
Mean Weight			2.24		3.01	2.29		2.78	2.04		2.75	2.46
Std. Error			0.07		0.25	0.05		0.08	0.18		0.04	0.04
Sample Size			8		5	51		23	2		4	93
Sample Period 12: July 14 - July 16												
Males			27,691		27,691	313,118		161,884	4,260		12,780	547,424
Percent			2.42		2.42	27.32		14.13	0.37		1.12	47.77
Sample Size			13		13	147		76	2		6	257
Mean Length			530		578	530		589	542		575	551
Std. Error			5		4	2		2	18		9	1
Sample Size			13		13	147		75	2		6	256
Mean Weight			2.15		2.61	2.02		2.65	2.95		3.02	2.27
Std. Error			0.29		0.22	0.06		0.27			0.40	0.09
Sample Size			5		4	22		7	1		2	41
Females			27,691		53,251	253,477		240,696	2,130	2,130	19,171	598,546
Percent			2.42		4.65	22.12		21.00	0.19	0.19	1.67	52.23
Sample Size			13		25	119		113	1	1	9	281
Mean Length			509		561	514		561	489	590	562	539
Std. Error			5		4	2		2			5	1
Sample Size			13		25	119		113	1	1	9	281
Mean Weight			2.11		2.50	1.96		2.49		3.24		2.24
Std. Error					0.16	0.05		0.10				0.05
Sample Size			1		5	24		20		1		51
Both Sexes			55,382		80,942	566,595		402,580	6,390	2,130	31,951	1,145,970
Percent			4.83		7.06	49.44		35.13	0.56	0.19	2.79	100.00
Sample Size			26		38	266		189	3	1	15	538
Mean Length			520		567	523		572	524	590	567	545
Std. Error			3		3	1		1	18		5	1
Sample Size			26		38	266		188	3	1	15	537
Mean Weight			2.13		2.54	1.99		2.55	2.95	3.24	3.02	2.26
Std. Error			0.29		0.13	0.04		0.12			0.40	0.05
Sample Size			6		9	46		27	1	1	2	92

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Table 55. (p 7 of 7)

	Age Group											Total
	0.2	0.3	1.2	2.1	1.3	2.2	1.4	2.3	3.2	2.4	3.3	
Sample Period 13: July 17 - August 25												
Males			13,359		26,717	180,343		140,266	6,679		23,378	390,742
Percent			1.49		2.97	20.07		15.61	0.74		2.60	43.49
Sample Size			4		8	54		42	2		7	117
Mean Length			517		569	526		579	525		573	551
Std. Error			5		5	3		4	3		8	2
Sample Size			4		7	54		40	2		6	113
Mean Weight			2.33			2.45		3.10				2.72
Std. Error						0.12		0.08				0.07
Sample Size			1			10		5				16
Females			23,378		36,736	223,759		193,701	10,019		20,038	507,631
Percent			2.60		4.09	24.91		21.56	1.12		2.23	56.51
Sample Size			7		11	67		58	3		6	152
Mean Length			491		561	509		561	489		549	533
Std. Error			5		6	3		2	16		5	2
Sample Size			7		11	64		58	3		6	149
Mean Weight			2.14		2.34	2.06		2.87			2.47	2.42
Std. Error			0.36		0.08	0.13		0.09			0.12	0.07
Sample Size			3		3	7		14			3	30
Both Sexes			36,737		63,453	404,102		333,967	16,698		43,416	898,373
Percent			4.09		7.06	44.98		37.17	1.86		4.83	100.00
Sample Size			11		19	121		100	5		13	269
Mean Length			500		564	517		569	503		562	541
Std. Error			4		4	2		2	10		5	1
Sample Size			11		18	118		98	5		12	262
Mean Weight			2.21		2.34	2.23		2.97			2.47	2.54
Std. Error			0.36		0.08	0.09		0.06			0.12	0.05
Sample Size			4		3	17		19			3	46
All Periods Combined:												
Males	1,753		680,777	1,308	404,698	4,480,745	1,901	1,855,314	65,447		77,687	7,569,630
Percent	0.01		4.72	0.01	2.81	31.06	0.01	12.86	0.45		0.54	52.47
Sample Size	1		367	1	225	2,414	1	984	36		39	4,068
Mean Length	452		520	338	575	530	567	584	538		580	545
Std. Error			1		2	1		1	3		4	0
Sample Size	1		346	1	214	2,290	1	954	36		37	3,880
Mean Weight			2.27		2.91	2.41	3.14	3.11	2.74		3.13	2.60
Std. Error			0.03		0.10	0.03		0.05	0.21		0.24	0.02
Sample Size			53		37	334	1	120	3		10	558
Females	3,444	2,419	544,955		377,366	3,995,580	3,334	1,780,983	79,371	2,130	66,767	6,856,349
Percent	0.02	0.02	3.78		2.62	27.70	0.02	12.35	0.55	0.01	0.46	47.53
Sample Size	1	1	293		218	2,158	2	927	43	1	33	3,677
Mean Length	475	550	504		557	514	585	563	516	590	548	529
Std. Error			1		2	1		1	3		3	0
Sample Size	1	1	283		210	2,099	2	902	43	1	32	3,574
Mean Weight			1.99		2.55	2.06		2.67	2.08	3.24	2.55	2.25
Std. Error			0.04		0.08	0.02		0.03	0.10		0.09	0.01
Sample Size			47		31	300		159	11	1	8	557
Both Sexes	5,197	2,419	1,225,732	1,308	782,064	8,476,325	5,235	3,636,297	144,818	2,130	144,454	14,425,979
Percent	0.04	0.02	8.50	0.01	5.42	58.76	0.04	25.21	1.00	0.01	1.00	100.00
Sample Size	2	1	660	1	443	4,572	3	1,911	79	1	72	7,745
Mean Length	467	550	513	338	566	523	579	574	526	590	572	538
Std. Error			1		1	0		1	2		2	0
Sample Size	2	1	629	1	424	4,389	3	1,856	79	1	69	7,454
Mean Weight			2.14		2.73	2.25	3.14	2.89	2.20	3.24	2.86	2.43
Std. Error			0.02		0.06	0.02		0.03	0.09		0.13	0.01
Sample Size			100		68	634	1	279	14	1	18	1,115

Table 56. Age, sex, and size (length in mm and weight in kg) composition of sockeye salmon escapement, Egegik River, 1995.

	Age Group										Total	
	1.1	1.2	2.1	1.3	2.2	3.1	1.4	2.3	3.2	2.4		3.3
Sample Period 1: June 19 - June 24												
Males	1,356		522	887	8,135			2,920	156		52	14,028
Percent	5.14		1.98	3.36	30.83			11.07	0.59		0.20	53.16
Sample Size	26		10	17	156			56	3		1	269
Mean Length	497		340	598	514			591	509		571	527
Std. Error	7		3	5	3			4	17			2
Sample Size	26		10	17	156			56	3		1	269
Females		678		782	6,415			4,433			52	12,360
Percent		2.57		2.96	24.31			16.80			0.20	46.84
Sample Size		13		15	123			85			1	237
Mean Length		487		564	501			570			587	529
Std. Error		7		6	3			2				2
Sample Size		13		15	123			85			1	237
Both Sexes	2,034	522	1,669	14,550			7,353	156			104	26,388
Percent	7.71	1.98	6.32	55.14			27.86	0.59			0.39	100.00
Sample Size	39	10	32	279			141	3			2	506
Mean Length	494	340	582	508			578	509			579	528
Std. Error	5	3	4	2			2	17				1
Sample Size	39	10	32	279			141	3			2	506
Sample Period 2: June 25 - June 27												
Males	5,243	2,622	4,120	59,919			22,470	749			375	95,498
Percent	2.64	1.32	2.08	30.19			11.32	0.38			0.19	48.11
Sample Size	14	7	11	160			60	2			1	255
Mean Length	492	348	593	520			588	517			589	533
Std. Error	8	7	11	3			4	11				2
Sample Size	14	7	11	160			60	2			1	255
Females	7,116		5,992	61,792			27,339	749				102,988
Percent	3.59		3.02	31.13			13.77	0.38				51.89
Sample Size	19		16	165			73	2				275
Mean Length	509		571	509			569	530				528
Std. Error	6		3	2			2	4				2
Sample Size	19		16	165			73	2				275
Both Sexes	12,359	2,622	10,112	121,711			49,809	1,498			375	198,486
Percent	6.23	1.32	5.09	61.32			25.09	0.75			0.19	100.00
Sample Size	33	7	27	325			133	4			1	530
Mean Length	502	348	580	514			577	523			589	531
Std. Error	5	7	5	2			2	6				1
Sample Size	33	7	27	325			133	4			1	530

- Continued -

Table 56. (p 2 of 4)

	Age Group											Total
	1.1	1.2	2.1	1.3	2.2	3.1	1.4	2.3	3.2	2.4	3.3	
Sample Period 3: June 28 - June 30												
Males	26,715	3,929	6,286	121,005				25,930	1,571			185,436
Percent	6.26	0.92	1.47	28.36				6.08	0.37			43.46
Sample Size	34	5	8	154				33	2			236
Mean Length	507	365	596	532				595	533			536
Std. Error	5	17	8	2				5	18			2
Sample Size	34	5	8	154				33	2			236
Females	26,715		7,857	158,722				46,359	1,571			241,224
Percent	6.26		1.84	37.20				10.87	0.37			56.54
Sample Size	34		10	202				59	2			307
Mean Length	506		578	511				565	530			523
Std. Error	3		4	2				3	1			1
Sample Size	34		10	201				59	2			306
Both Sexes	53,430	3,929	14,143	279,727				72,289	3,142			426,660
Percent	12.52	0.92	3.31	65.56				16.94	0.74			100.00
Sample Size	68	5	18	356				92	4			543
Mean Length	507	365	586	520				576	531			528
Std. Error	3	17	4	1				3	9			1
Sample Size	68	5	18	355				92	4			542
Sample Period 4: July 1 - July 6												
Males	12,575	5,533	7,042	63,879	503			25,653	1,006		503	116,694
Percent	4.46	1.96	2.50	22.68	0.18			9.11	0.36		0.18	41.43
Sample Size	25	11	14	127	1			51	2		1	232
Mean Length	514	365	598	518	349			601	475		600	533
Std. Error	5	5	5	4				3	4			2
Sample Size	25	11	14	127	1			51	2		1	232
Females	14,084		3,018	126,754				16,599	4,024		503	164,982
Percent	5.00		1.07	45.00				5.89	1.43		0.18	58.57
Sample Size	28		6	252				33	8		1	328
Mean Length	490		574	498				568	513		563	507
Std. Error	3		8	2				5	7			1
Sample Size	28		6	252				33	8		1	328
Both Sexes	26,659	5,533	10,060	190,633	503			42,252	5,030		1,006	281,676
Percent	9.46	1.96	3.57	67.68	0.18			15.00	1.79		0.36	100.00
Sample Size	53	11	20	379	1			84	10		2	560
Mean Length	501	365	591	505	349			588	505		582	517
Std. Error	3	5	4	2				3	5			1
Sample Size	53	11	20	379	1			84	10		2	560

- Continued -

Table 56. (p 3 of 4)

	Age Group											Total
	1.1	1.2	2.1	1.3	2.2	3.1	1.4	2.3	3.2	2.4	3.3	
Sample Period 5: July 7 - July 12												
Males	4,862	1,823	2,431	40,416	26,437	912	304	77,185				
Percent	2.69	1.01	1.35	22.39	14.65	0.51	0.17	42.76				
Sample Size	16	6	8	133	87	3	1	254				
Mean Length	520	385	590	521	589	485	625	543				
Std. Error	8	8	12	3	3	36		2				
Sample Size	16	6	8	133	87	3	1	254				
Females	10,940	304	2,127	71,411	13,675	3,950	608	103,319				
Percent	6.06	0.17	1.18	39.56	7.58	2.19	0.34	57.24				
Sample Size	36	1	7	235	45	13	2	340				
Mean Length	488	328	543	500	567	496	570	508				
Std. Error	4		14	2	4	3	1	1				
Sample Size	36	1	7	234	45	13	2	339				
Both Sexes	15,802	2,127	4,558	111,827	40,112	4,862	912	180,504				
Percent	8.75	1.18	2.53	61.95	22.22	2.69	0.51	100.00				
Sample Size	52	7	15	368	132	16	3	594				
Mean Length	498	376	568	508	582	494	588	523				
Std. Error	4	8	9	2	2	7	1	1				
Sample Size	52	7	15	367	132	16	3	593				
Sample Period 6: July 13 - July 18												
Males	125	752	626	1,127	7,643	125	125	4,886	501	125	16,035	
Percent	0.22	1.34	1.12	2.01	13.65	0.22	0.22	8.73	0.89	0.22	28.63	
Sample Size	1	6	5	9	61	1	1	39	4	1	128	
Mean Length	327	496	353	560	508	409	574	589	502	568	528	
Std. Error	14	14	13	5	5	4	14	4	14		3	
Sample Size	1	6	5	9	61	1	1	39	4	1	128	
Females	3,633		626	30,442	4,134	877	251	39,963				
Percent	6.49		1.12	54.36	7.38	1.57	0.45	71.37				
Sample Size	29		5	243	33	7	2	319				
Mean Length	487		567	493	560	506	529	501				
Std. Error	5		12	2	5	12	31	1				
Sample Size	29		5	243	33	7	2	319				
Both Sexes	125	4,385	626	1,753	38,085	125	125	9,020	1,378	376	55,998	
Percent	0.22	7.83	1.12	3.13	68.01	0.22	0.22	16.11	2.46	0.67	100.00	
Sample Size	1	35	5	14	304	1	1	72	11	3	447	
Mean Length	327	488	353	562	496	409	574	576	505	542	509	
Std. Error	5	14	9	2	3	9	31	3	9	31	1	
Sample Size	1	35	5	14	304	1	1	72	11	3	447	

- Continued -

Table 56. (p 4 of 4)

	Age Group											Total ^a
	1.1	1.2	2.1	1.3	2.2	3.1	1.4	2.3	3.2	2.4	3.3	
Sample Period 7: July 19 - July 25												
Males		397	2,781	795	13,508			7,549	596		199	25,825
Percent		0.41	2.89	0.83	14.05			7.85	0.62		0.21	26.86
Sample Size		2	14	4	68			38	3		1	130
Mean Length		493	389	567	510			579	491		605	519
Std. Error		1	19	13	5			5	30			4
Sample Size		2	14	4	68			38	3		1	130
Females		2,781	397	795	56,021			7,748	1,987		596	70,325
Percent		2.89	0.41	0.83	58.26			8.06	2.07		0.62	73.14
Sample Size		14	2	4	282			39	10		3	354
Mean Length		476	449	504	488			544	498		575	495
Std. Error		7	46	14	1			5	4		4	1
Sample Size		14	2	4	282			39	10		3	354
Both Sexes		3,178	3,178	1,590	69,529			15,297	2,583		795	96,150
Percent		3.31	3.31	1.65	72.31			15.91	2.69		0.83	100.00
Sample Size		16	16	8	350			77	13		4	484
Mean Length		478	397	535	493			561	496		583	501
Std. Error		6	18	10	1			4	7		4	1
Sample Size		16	16	8	350			77	13		4	484
All Periods Combined:												
Males	125	51,900	17,836	22,688	314,505	628	125	115,845	5,491		1,558	530,701
Percent	0.01	4.10	1.41	1.79	24.85	0.05	0.01	9.15	0.43		0.12	41.92
Sample Size	1	123	58	71	859	2	1	364	19		6	1,504
Mean Length	327	508	367	593	523	361	574	592	504		599	534
Std. Error		3	5	4	1			2	9			1
Sample Size	1	123	58	71	859	2	1	364	19		6	1,504
Females		65,947	701	21,197	511,557			120,287	13,158	304	2,010	735,161
Percent		5.21	0.06	1.67	40.41			9.50	1.04	0.02	0.16	58.08
Sample Size		173	3	63	1,502			367	42	1	9	2,160
Mean Length		497	396	568	502			565	508	602	565	514
Std. Error		2	46	3	1			2	2		6	1
Sample Size		173	3	63	1,500			367	42	1	9	2,158
Both Sexes	125	117,847	18,537	43,885	826,062	628	125	236,132	18,649	304	3,568	1,265,862
Percent	0.01	9.31	1.46	3.47	65.26	0.05	0.01	18.65	1.47	0.02	0.28	100.00
Sample Size	1	296	61	134	2,361	2	1	731	61	1	15	3,664
Mean Length	327	502	368	581	510	361	574	579	507	602	580	523
Std. Error		2	5	2	1			1	3		6	1
Sample Size	1	296	61	134	2,359	2	1	731	61	1	15	3,662

^a Total does not include an estimated 15,816 sockeye salmon counted, from July 26 to August 30, during a USF&WS coho project, and escapement to King Salmon River (830).

Table 57. Age, sex, and size (length in mm and weight in kg) composition of sockeye salmon commercial catch, Ugashik District, 1995.

	Age Group											Total
	0.2	0.3	1.2	0.4	1.3	2.2	1.4	2.3	3.2	2.4	3.3	
Sample Period 1: June 12 - June 26												
Males		39,025			12,281	37,660		12,826				101,792
Percent		23.14			7.28	22.33		7.60				60.36
Sample Size		143			45	138		47				373
Mean Length		527			582	521		575				538
Std. Error		5			8	6		6				3
Sample Size		14			3	22		8				47
Females		15,010			12,826	21,286		17,466	273			66,861
Percent		8.90			7.60	12.62		10.36	0.16			39.64
Sample Size		55			47	78		64	1			245
Mean Length		523			570	515		563	512			540
Std. Error		10			4	4		6				3
Sample Size		2			5	11		10	1			29
Both Sexes		54,035			25,107	58,946		30,292	273			168,653
Percent		32.04			14.89	34.95		17.96	0.16			100.00
Sample Size		198			92	216		111	1			618
Mean Length		526			576	519		568	512			538
Std. Error		5			4	4		4				2
Sample Size		16			8	33		18	1			76
Sample Period 2: June 27 - June 29												
Males		63,939			24,280	46,133		15,782			405	150,539
Percent		25.94			9.85	18.72		6.40			0.16	61.08
Sample Size		158			60	114		39			1	372
Mean Length		527			586	536		583			564	545
Std. Error		1			3	2		5				1
Sample Size		158			60	114		39			1	372
Mean Weight		2.31			3.09	2.25		2.40				2.43
Std. Error		0.06			0.21	0.13						0.06
Sample Size		9			7	8		1				25
Females	405	25,090			15,782	32,374		22,257				95,908
Percent	0.16	10.18			6.40	13.14		9.03				38.92
Sample Size	1	62			39	80		55				237
Mean Length	535	515			568	516		569				537
Std. Error		3			3	2		3				1
Sample Size	1	62			39	80		55				237
Mean Weight	2.30	2.01			2.78	2.06		2.91				2.36
Std. Error		0.05			0.08	0.06		0.20				0.05
Sample Size	1	5			2	7		4				19
Both Sexes	405	89,029			40,062	78,507		38,039			405	246,447
Percent	0.16	36.13			16.26	31.86		15.43			0.16	100.00
Sample Size	1	220			99	194		94			1	609
Mean Length	535	524			579	528		575			564	542
Std. Error		1			2	1		3				1
Sample Size	1	220			99	194		94			1	609
Mean Weight	2.30	2.23			2.97	2.17		2.70				2.40
Std. Error		0.05			0.13	0.08		0.20				0.04
Sample Size	1	14			9	15		5				44

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Table 57. (p 2 of 5)

	Age Group											Total
	0.2	0.3	1.2	0.4	1.3	2.2	1.4	2.3	3.2	2.4	3.3	
Sample Period 3: June 30 - July 3												
Males		128,514			40,449	117,250		48,641	1,024			335,878
Percent		24.11			7.59	22.00		9.13	0.19			63.02
Sample Size		251			79	229		95	2			656
Mean Length		530			588	537		596	527			549
Std. Error		1			3	1		3	24			1
Sample Size		251			79	229		95	2			656
Mean Weight		2.43			3.27	2.44		3.28	1.95			2.66
Std. Error		0.05			0.15	0.05		0.17				0.04
Sample Size		38			14	35		13	1			101
Females		53,761			36,353	70,656	512	35,841				197,123
Percent		10.09			6.82	13.26	0.10	6.72				36.98
Sample Size		105			71	138	1	70				385
Mean Length		512			569	518	580	572				536
Std. Error		2			2	2		2				1
Sample Size		105			71	138	1	70				385
Mean Weight		2.08			2.76	2.21		2.96				2.41
Std. Error		0.06			0.09	0.07		0.11				0.04
Sample Size		17			15	27		13				72
Both Sexes		182,275			76,802	187,906	512	84,482	1,024			533,001
Percent		34.20			14.41	35.25	0.10	15.85	0.19			100.00
Sample Size		356			150	367	1	165	2			1,041
Mean Length		525			579	530	580	586	527			544
Std. Error		1			2	1		2	24			1
Sample Size		356			150	367	1	165	2			1,041
Mean Weight		2.33			3.03	2.35		3.14	1.95			2.57
Std. Error		0.04			0.09	0.04		0.11				0.03
Sample Size		55			29	62		26	1			173
Sample Period 4: July 4 - July 5												
Males		47,969			13,268	82,160		32,660		510		176,567
Percent		17.77			4.91	30.43		12.10		0.19		65.41
Sample Size		94			26	161		64		1		346
Mean Length		535			588	533		590		652		549
Std. Error		2			5	2		3				1
Sample Size		94			26	161		64		1		346
Mean Weight		2.05			3.06	2.18		3.07				2.38
Std. Error		0.11			0.18	0.07		0.19				0.06
Sample Size		13			3	33		8				57
Females		20,923			5,613	43,887		21,433	510		1,021	93,387
Percent		7.75			2.08	16.26		7.94	0.19		0.38	34.59
Sample Size		41			11	86		42	1		2	183
Mean Length		512			567	524		572	515		563	535
Std. Error		2			6	2		3			4	1
Sample Size		41			11	86		42	1		2	183
Mean Weight		1.74			2.68	2.05		2.89				2.21
Std. Error		0.08				0.05		0.32				0.08
Sample Size		8			1	20		4				33
Both Sexes		68,892			18,881	126,047		54,093	510	510	1,021	269,954
Percent		25.52			6.99	46.69		20.04	0.19	0.19	0.38	100.00
Sample Size		135			37	247		106	1	1	2	529
Mean Length		528			582	530		583	515	652	563	544
Std. Error		2			4	1		2			4	1
Sample Size		135			37	247		106	1	1	2	529
Mean Weight		1.96			2.95	2.13		3.00				2.32
Std. Error		0.08			0.18	0.05		0.17				0.05
Sample Size		21			4	53		12				90

- Continued -

Table 57. (p 3 of 5)

	Age Group										Total	
	0.2	0.3	1.2	0.4	1.3	2.2	1.4	2.3	3.2	2.4		3.3
Sample Period 5: July 6 - July 8												
Males		172,551	1,692	28,759	115,035			45,676				363,713
Percent		22.77	0.22	3.79	15.18			6.03				47.99
Sample Size		102	1	17	68			27				215
Mean Length		520	608	569	520			587				533
Std. Error		2		7	2			4				1
Sample Size		102	1	16	68			27				214
Females -		120,110		45,676	175,934			50,751	1,692			394,163
Percent		15.85		6.03	23.21			6.70	0.22			52.01
Sample Size		71		27	104			30	1			233
Mean Length		503		550	508			557	512			518
Std. Error		2		4	2			4				1
Sample Size		71		27	104			30	1			233
Both Sexes		292,661	1,692	74,435	290,969			96,427	1,692			757,876
Percent		38.62	0.22	9.82	38.39			12.72	0.22			100.00
Sample Size		173	1	44	172			57	1			448
Mean Length		513	608	557	513			571	512			525
Std. Error		1		3	2			3				1
Sample Size		173	1	43	172			57	1			447
Sample Period 6: July 9 - July 12												
Males	587	68,150		23,500	69,914		23,500	587	587	587		187,412
Percent	0.20	23.29		8.03	23.90		8.03	0.20	0.20	0.20		64.06
Sample Size	1	116		40	119		40	1	1	1		319
Mean Length	500	531		588	533		586	510	584	568		546
Std. Error		2		4	2		3					1
Sample Size	1	116		40	119		40	1	1	1		319
Mean Weight	2.10	2.38		3.19	2.49		3.25					2.63
Std. Error		0.17		0.31	0.07		0.16					0.08
Sample Size	1	3		2	5		2					13
Females		34,662		13,512	44,063		12,925					105,162
Percent		11.85		4.62	15.06		4.42					35.94
Sample Size		59		23	75		22					179
Mean Length		511		561	519		565					527
Std. Error		2		5	2		4					1
Sample Size		59		23	75		21					178
Mean Weight		2.35		2.86	1.84		3.28					2.32
Std. Error				0.06								0.01
Sample Size		1		2	1		1					5
Both Sexes	587	102,812		37,012	113,977		36,425	587	587	587		292,574
Percent	0.20	35.14		12.65	38.96		12.45	0.20	0.20	0.20		100.00
Sample Size	1	175		63	194		62	1	1	1		498
Mean Length	500	524		578	528		579	510	584	568		539
Std. Error		1		3	1		2					1
Sample Size	1	175		63	194		61	1	1	1		497
Mean Weight	2.10	2.37		3.07	2.24		3.26					2.52
Std. Error		0.17		0.20	0.07		0.16					0.05
Sample Size	1	4		4	6		3					18

- Continued -

Table 57. (p 4 of 5)

	Age Group											Total
	0.2	0.3	1.2	0.4	1.3	2.2	1.4	2.3	3.2	2.4	3.3	
Sample Period 7: July 13 - July 16												
Males	1,570	188,400			67,510	233,929	1,570	113,040			3,140	609,159
Percent	0.19	22.51			8.07	27.95	0.19	13.51			0.38	72.80
Sample Size	1	120			43	149	1	72			2	388
Mean Length	434	528			581	534	603	590			591	548
Std. Error		2			4	2		3			32	1
Sample Size	1	120			43	149	1	72			2	388
Mean Weight		2.28			2.97	2.29		3.07			3.22	2.51
Std. Error		0.08			0.14	0.06		0.10			0.34	0.04
Sample Size		17			10	26		15			2	70
Females		56,520			14,130	122,459	3,140	31,400				227,649
Percent		6.75			1.69	14.63	0.38	3.75				27.20
Sample Size		36			9	78	2	20				145
Mean Length		508			576	519	570	565				527
Std. Error		3			6	2	17	4				1
Sample Size		36			9	78	2	20				145
Mean Weight		1.80			2.90	1.92		2.70				2.06
Std. Error		0.05				0.05		0.09				0.03
Sample Size		8			1	7		3				19
Both Sexes	1,570	244,920			81,640	356,388	4,710	144,440			3,140	836,808
Percent	0.19	29.27			9.76	42.59	0.56	17.26			0.38	100.00
Sample Size	1	156			52	227	3	92			2	533
Mean Length	434	523			580	529	581	584			591	542
Std. Error		2			4	1	17	2			32	1
Sample Size	1	156			52	227	3	92			2	533
Mean Weight		2.17			2.96	2.16		2.99			3.22	2.39
Std. Error		0.06			0.14	0.04		0.08			0.34	0.03
Sample Size		25			11	33		18			2	89
Sample Period 8: July 17 - July 18												
Males		98,931			58,298	183,727		79,498		1,767		422,221
Percent		11.59			6.83	21.53		9.32		0.21		49.48
Sample Size		56			33	104		45		1		239
Mean Length		530			596	535		595		615		554
Std. Error		2			4	3		3				2
Sample Size		56			33	104		45		1		239
Mean Weight		2.32			3.52	2.41		3.25				2.70
Std. Error		0.08			0.08	0.14		0.15				0.07
Sample Size		14			2	16		10				42
Females		107,764			33,566	190,794	1,767	95,397	1,767			431,055
Percent		12.63			3.93	22.36	0.21	11.18	0.21			50.52
Sample Size		61			19	108	1	54	1			244
Mean Length		506			559	512	585	569	499			527
Std. Error		2			6	2		3				1
Sample Size		61			19	108	1	54	1			244
Mean Weight		1.84			2.44	1.97		2.64	1.75			2.12
Std. Error		0.05			0.15	0.06		0.10				0.04
Sample Size		8			8	21		13	1			51
Both Sexes		206,695			91,864	374,521	1,767	174,895	1,767	1,767		853,276
Percent		24.22			10.77	43.89	0.21	20.50	0.21	0.21		100.00
Sample Size		117			52	212	1	99	1	1		483
Mean Length		517			583	524	585	581	499	615		541
Std. Error		1			3	2		2				1
Sample Size		117			52	212	1	99	1	1		483
Mean Weight		2.07			3.13	2.19		2.92	1.75			2.41
Std. Error		0.04			0.07	0.07		0.09				0.04
Sample Size		22			10	37		23	1			93

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Table 57. (p 5 of 5)

	Age Group											Total
	0.2	0.3	1.2	0.4	1.3	2.2	1.4	2.3	3.2	2.4	3.3	
Sample Period 9: July 19 - August 30												
Males			41,732		27,126	88,679		84,506				242,043
Percent			7.58		4.92	16.10		15.34				43.94
Sample Size			40		26	85		81				232
Mean Length			527		584	531		586				556
Std. Error			3		4	2		2				1
Sample Size			40		26	85		81				232
Females			39,645		36,515	139,801	4,173	86,593			2,087	308,814
Percent			7.20		6.63	25.38	0.76	15.72			0.38	56.06
Sample Size			38		35	134	4	83			2	296
Mean Length			494		558	509	579	560			562	528
Std. Error			4		2	2	7	2			4	1
Sample Size			38		35	134	4	83			2	296
Both Sexes			81,377		63,641	228,480	4,173	171,099			2,087	550,857
Percent			14.77		11.55	41.48	0.76	31.06			0.38	100.00
Sample Size			78		61	219	4	164			2	528
Mean Length			511		570	518	579	573			562	540
Std. Error			2		2	1	7	2			4	1
Sample Size			78		61	219	4	164			2	528
All Periods Combined:												
Males	2,157		849,211	1,692	295,471	974,487	1,570	456,129	1,611	2,864	4,132	2,589,324
Percent	0.05		18.83	0.04	6.55	21.61	0.03	10.11	0.04	0.06	0.09	57.42
Sample Size	2		1,080	1	369	1,167	1	510	3	3	4	3,140
Mean Length	452		527	608	585	532	603	590	521	615	585	547
Std. Error			1		2	1		1	24		32	0
Sample Size	2		951	1	326	1,051	1	471	3	3	4	2,813
Mean Weight	2.10		2.32		3.21	2.35		3.13	1.95		3.22	2.57
Std. Error			0.04		0.07	0.04		0.07			0.34	0.02
Sample Size	1		94		38	123		49	1		2	308
Females		405	473,485		213,973	841,254	9,592	374,063	4,242		3,108	1,920,122
Percent		0.01	10.50		4.74	18.66	0.21	8.30	0.09		0.07	42.58
Sample Size		1	528		281	881	8	440	4		4	2,147
Mean Length		535	507		562	513	577	565	507		562	528
Std. Error			1		1	1	8	1			3	0
Sample Size		1	475		239	814	8	385	4		4	1,930
Mean Weight		2.30	1.94		2.70	1.99		2.79	1.75			2.21
Std. Error			0.03		0.06	0.03		0.06				0.02
Sample Size		1	47		29	83		38	1			199
Both Sexes	2,157	405	1,322,696	1,692	509,444	1,815,741	11,162	830,192	5,853	2,864	7,240	4,509,446
Percent	0.05	0.01	29.33	0.04	11.30	40.27	0.25	18.41	0.13	0.06	0.16	100.00
Sample Size	2	1	1,608	1	650	2,048	9	950	7	3	8	5,287
Mean Length	452	535	520	608	575	524	581	579	511	615	575	539
Std. Error			1		1	1	8	1	24		16	0
Sample Size	2	1	1,426	1	565	1,865	9	856	7	3	8	4,743
Mean Weight	2.10	2.30	2.19		3.03	2.20		2.99	1.82		3.22	2.43
Std. Error			0.03		0.05	0.03		0.05			0.34	0.02
Sample Size	1	1	141		67	206		87	2		2	507

Table 58. Age, sex, and size (length in mm and weight in kg) composition of sockeye salmon escapement, Ugashik River, 1995.

	Age Group						Total	
	0.2	1.1	1.2	2.1	1.3	2.2		2.3
Sample Period 1: July 3 - July 7								
Males		162	32,383		8,581	12,953	2,591	56,670
Percent		0.18	36.23		9.60	14.49	2.90	63.41
Sample Size		1	200		53	80	16	350
Mean Length		521	514		585	526	590	531
Std. Error			2		4	3	6	1
Sample Size		1	200		53	80	16	350
Females			14,895		4,048	11,172	2,591	32,706
Percent			16.67		4.53	12.50	2.90	36.59
Sample Size			92		25	69	16	202
Mean Length			497		568	503	578	514
Std. Error			3		3	2	4	1
Sample Size			92		25	69	16	202
Both Sexes		162	47,278		12,629	24,125	5,182	89,376
Percent		0.18	52.90		14.13	26.99	5.80	100.00
Sample Size		1	292		78	149	32	552
Mean Length		521	509		580	516	584	525
Std. Error			1		3	2	4	1
Sample Size		1	292		78	149	32	552
Sample Period 2: July 8 - July 18								
Males			108,884		15,123	84,687	22,180	230,874
Percent			23.33		3.24	18.14	4.75	49.46
Sample Size			108		15	84	22	229
Mean Length			518		575	530	582	532
Std. Error			3		8	3	6	2
Sample Size			108		15	84	22	229
Females			101,826		24,196	92,753	17,139	235,914
Percent			21.81		5.18	19.87	3.67	50.54
Sample Size			101		24	92	17	234
Mean Length			495		562	504	555	509
Std. Error			2		4	2	7	1
Sample Size			101		24	92	17	234
Both Sexes			210,710		39,319	177,440	39,319	466,788
Percent			45.14		8.42	38.01	8.42	100.00
Sample Size			209		39	176	39	463
Mean Length			507		567	516	570	521
Std. Error			2		4	2	5	1
Sample Size			209		39	176	39	463

- Continued -

Table 58. (p 2 of 3)

	Age Group							Total
	0.2	1.1	1.2	2.1	1.3	2.2	2.3	
Sample Period 3: July 19 - July 22								
Males	2,626	2,626	165,430	1,313	51,205	95,845	28,885	347,930
Percent	0.38	0.38	23.86	0.19	7.39	13.83	4.17	50.19
Sample Size	2	2	126	1	39	73	22	265
Mean Length	440	418	512	366	585	533	582	532
Std. Error	20	72	3		4	3	5	2
Sample Size	2	2	126	1	39	73	22	265
Females			173,308		49,892	101,097	21,007	345,304
Percent			25.00		7.20	14.58	3.03	49.81
Sample Size			132		38	77	16	263
Mean Length			493		565	504	569	511
Std. Error			2		3	2	4	1
Sample Size			132		38	77	16	263
Both Sexes	2,626	2,626	338,738	1,313	101,097	196,942	49,892	693,234
Percent	0.38	0.38	48.86	0.19	14.58	28.41	7.20	100.00
Sample Size	2	2	258	1	77	150	38	528
Mean Length	440	418	502	366	575	518	577	522
Std. Error	20	72	2		2	2	3	1
Sample Size	2	2	258	1	77	150	38	528
Sample Period 4: July 23 - July 27								
Males	633	90	16,110		6,516	4,796	2,805	30,950
Percent	1.16	0.16	29.47		11.92	8.77	5.13	56.62
Sample Size	7	1	178		72	53	31	342
Mean Length	434	356	512		590	522	589	535
Std. Error	5		2		3	4	5	2
Sample Size	7	1	178		72	53	31	342
Females	181		11,855		4,344	6,244	1,086	23,710
Percent	0.33		21.69		7.95	11.42	1.99	43.38
Sample Size	2		131		48	69	12	262
Mean Length	421		494		560	497	578	510
Std. Error	4		2		3	2	6	1
Sample Size	2		131		48	69	12	262
Both Sexes	814	90	27,965		10,860	11,040	3,891	54,660
Percent	1.49	0.16	51.16		19.87	20.20	7.12	100.00
Sample Size	9	1	309		120	122	43	604
Mean Length	431	356	504		578	508	586	524
Std. Error	4		2		2	2	4	1
Sample Size	9	1	309		120	122	43	604

- Continued -

Table 58. (p 3 of 3)

	Age Group							Total ^a
	0.2	1.1	1.2	2.1	1.3	2.2	2.3	
All Periods Combined:								
Males	3,259	2,878	322,807	1,313	81,425	198,281	56,461	666,424
Percent	0.25	0.22	24.75	0.10	6.24	15.20	4.33	51.10
Sample Size	9	4	612	1	179	290	91	1,186
Mean Length	439	421	514	366	584	531	583	532
Std. Error	16	72	2		3	2	3	1
Sample Size	9	4	612	1	179	290	91	1,186
Females	181		301,884		82,480	211,266	41,823	637,634
Percent	0.01		23.15		6.32	16.20	3.21	48.90
Sample Size	2		456		135	307	61	961
Mean Length	421		494		564	504	564	511
Std. Error	4		1		2	1	4	1
Sample Size	2		456		135	307	61	961
Both Sexes	3,440	2,878	624,691	1,313	163,905	409,547	98,284	1,304,058
Percent	0.26	0.22	47.90	0.10	12.57	31.41	7.54	100.00
Sample Size	11	4	1,068	1	314	597	152	2,147
Mean Length	438	421	504	366	574	517	575	522
Std. Error	15	72	1		2	1	2	1
Sample Size	11	4	1,068	1	314	597	152	2,147

^a Total does not include escapement to King Salmon (7,650) and Dog Salmon (9,400) Rivers.

Table 59. Age, sex, and size (length in mm and weight in kg) composition of sockeye salmon commercial catch, Nushagak District, 1995.

	Age Group								Total
	0.2	0.3	1.2	0.4	1.3	2.2	1.4	2.3	
Sample Period 1: June 13 - June 27									
Males			73,584	1,415	24,057	9,906		1,415	110,377
Percent			29.05	0.56	9.50	3.91		0.56	43.58
Sample Size			156	3	51	21		3	234
Mean Length			505	580	560	509		565	519
Std. Error			2	5	4	5		19	2
Sample Size			156	3	50	21		3	233
Mean Weight			2.06	3.07	2.64	2.14		3.17	2.22
Std. Error			0.10		0.13	0.47			0.08
Sample Size			31	1	17	2		1	52
Females	943	4,245	66,039	2,830	54,245	11,792	472	2,358	142,924
Percent	0.37	1.68	26.07	1.12	21.42	4.66	0.19	0.93	56.42
Sample Size	2	9	140	6	115	25	1	5	303
Mean Length	493	554	495	561	539	489	533	570	515
Std. Error	23	14	2	11	2	4		14	1
Sample Size	2	9	140	6	115	25	1	5	303
Mean Weight		2.38	1.90	2.89	2.24	1.65	2.42		2.05
Std. Error			0.09	0.20	0.09	0.36			0.06
Sample Size		1	25	3	21	6	1		57
Both Sexes	943	4,245	139,623	4,245	78,302	21,698	472	3,773	253,301
Percent	0.37	1.68	55.12	1.68	30.91	8.57	0.19	1.49	100.00
Sample Size	2	9	296	9	166	46	1	8	537
Mean Length	493	554	500	567	545	498	533	568	517
Std. Error	23	14	2	8	2	3		11	1
Sample Size	2	9	296	9	165	46	1	8	536
Mean Weight		2.38	1.98	2.95	2.36	1.87	2.42	3.17	2.12
Std. Error			0.07	0.20	0.08	0.29			0.05
Sample Size		1	56	4	38	8	1	1	109
Sample Period 2: June 28 - June 30									
Males	2,999	2,999	174,956	1,000	87,978	19,995		1,000	290,927
Percent	0.42	0.42	24.79	0.14	12.46	2.83		0.14	41.22
Sample Size	3	3	175	1	88	20		1	291
Mean Length	442	601	512	525	568	509		558	529
Std. Error	4	22	2		3	5			1
Sample Size	3	3	173	1	88	20		1	289
Mean Weight	1.35	3.23	2.23		3.04	1.99			2.46
Std. Error			0.05		0.1	0.14			0.04
Sample Size	1	1	32		25	5			64
Females	1,999	12,997	181,955	8,998	171,957	23,994	2,999	9,997	414,896
Percent	0.28	1.84	25.78	1.27	24.36	3.40	0.42	1.42	58.78
Sample Size	2	13	182	9	172	24	3	10	415
Mean Length	444	539	496	564	549	504	529	552	522
Std. Error	1	8	2	10	2	5	44	7	1
Sample Size	2	13	182	9	172	24	3	10	415
Mean Weight		1.89	1.94	2.71	2.58	2.00		2.75	2.25
Std. Error			0.04	0.03	0.05	0.12		0.25	0.03
Sample Size		1	48	2	44	4		3	102
Both Sexes	4,998	15,996	356,911	9,998	259,935	43,989	2,999	10,997	705,823
Percent	0.71	2.27	50.57	1.42	36.83	6.23	0.42	1.56	100.00
Sample Size	5	16	357	10	260	44	3	11	706
Mean Length	443	550	504	560	555	506	529	553	525
Std. Error	2	7	1	10	1	3	44	7	1
Sample Size	5	16	355	10	260	44	3	11	704
Mean Weight	1.35	2.14	2.08	2.71	2.74	2.00		2.75	2.34
Std. Error			0.03	0.03	0.04	0.09		0.25	0.02
Sample Size	1	2	80	2	69	9		3	166

- Continued -

Table 59. (p 2 of 4)

	Age Group							Total	
	0.2	0.3	1.2	0.4	1.3	2.2	1.4		2.3
Sample Period 3: July 1 - July 3									
Males		2,161	149,123	3,242	83,206	28,095		5,403	271,230
Percent		0.38	25.94	0.56	14.47	4.89		0.94	47.18
Sample Size		2	138	3	77	26		5	251
Mean Length		514	497	562	551	496		565	516
Std. Error		20	2	7	3	4		11	2
Sample Size		2	138	3	77	26		5	251
Mean Weight			2.09		3.12	2.07		3.33	2.44
Std. Error			0.06		0.09	0.08			0.04
Sample Size			28		22	6		1	57
Females		6,484	111,301	5,403	150,202	20,531	3,242	6,484	303,647
Percent		1.13	19.36	0.94	26.13	3.57	0.56	1.13	52.82
Sample Size		6	103	5	139	19	3	6	281
Mean Length		530	491	559	529	481	566	557	513
Std. Error		6	2	7	2	5	16	6	1
Sample Size		6	103	5	139	19	3	6	281
Mean Weight		2.46	1.98	3.01	2.47	1.81	2.54	2.80	2.26
Std. Error		0.08	0.05	0.09	0.04	0.10		0.07	0.03
Sample Size		2	28	2	37	5	1	4	79
Both Sexes		8,645	260,424	8,645	233,408	48,626	3,242	11,887	574,877
Percent		1.50	45.30	1.50	40.6	8.46	0.56	2.07	100.00
Sample Size		8	241	8	216	45	3	11	532
Mean Length		526	495	560	536	490	566	561	514
Std. Error		7	1	5	2	3	16	6	1
Sample Size		8	241	8	216	45	3	11	532
Mean Weight		2.46	2.04	3.01	2.70	1.96	2.54	3.04	2.34
Std. Error		0.08	0.04	0.09	0.04	0.06		0.07	0.02
Sample Size		2	56	2	59	11	1	5	136
Sample Period 4: July 4 - July 6									
Males	3,086	7,716	197,524	4,629	135,798	35,493		6,173	390,419
Percent	0.37	0.93	23.79	0.56	16.36	4.28		0.74	47.03
Sample Size	2	5	128	3	88	23		4	253
Mean Length	509	547	505	587	554	508		568	525
Std. Error	8	12	2	19	3	4		8	2
Sample Size	2	5	128	3	88	23		4	253
Mean Weight		2.91	2.18		2.96	2.26		3.64	2.50
Std. Error		0.55	0.06		0.08	0.14		0.31	0.05
Sample Size		2	30		21	8		3	64
Females		10,802	175,920	16,975	185,179	40,122	3,086	7,716	439,800
Percent		1.30	21.19	2.04	22.30	4.83	0.37	0.93	52.97
Sample Size		7	114	11	120	26	2	5	285
Mean Length		525	489	564	534	492	539	534	513
Std. Error		9	2	4	2	5	30	9	1
Sample Size		7	114	11	120	26	2	5	285
Mean Weight		2.47	2.00	3.11	2.61	2.03		2.78	2.33
Std. Error		0.38	0.08	0.07	0.05	0.06		0.09	0.04
Sample Size		2	34	2	26	4		2	70
Both Sexes	3,086	18,518	373,444	21,604	320,977	75,615	3,086	13,889	830,219
Percent	0.37	2.23	44.98	2.60	38.66	9.11	0.37	1.67	100.00
Sample Size	2	12	242	14	208	49	2	9	538
Mean Length	509	534	497	569	542	500	539	549	519
Std. Error	8	7	2	5	2	3	30	6	1
Sample Size	2	12	242	14	208	49	2	9	538
Mean Weight		2.65	2.10	3.11	2.76	2.14		3.16	2.41
Std. Error		0.32	0.05	0.07	0.05	0.08		0.15	0.03
Sample Size		4	64	2	47	12		5	134

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Table 59. (p 3 of 4)

	Age Group								Total
	0.2	0.3	1.2	0.4	1.3	2.2	1.4	2.3	
Sample Period 5: July 7 - July 10									
Males	3,566	4,754	149,765	2,377	91,523	26,149		3,566	281,700
Percent	0.69	0.92	28.90	0.46	17.66	5.05		0.69	54.36
Sample Size	3	4	126	2	77	22		3	237
Mean Length	506	562	502	577	555	514		606	523
Std. Error	13	11	3	26	3	5		3	2
Sample Size	3	4	126	2	77	22		3	237
Mean Weight	2.77	3.39	2.30	4.44	3.14	2.17			2.61
Std. Error		0.29	0.07		0.13	0.14			0.06
Sample Size	1	3	33	1	15	4			57
Females	2,377	8,320	93,900	7,132	95,088	21,395	1,189	7,132	236,533
Percent	0.46	1.61	18.12	1.38	18.35	4.13	0.23	1.38	45.64
Sample Size	2	7	79	6	80	18	1	6	199
Mean Length	461	529	487	570	532	498	565	540	512
Std. Error	4	6	3	5	2	4		8	2
Sample Size	2	7	79	6	80	18	1	6	199
Mean Weight	1.74	2.87	1.90	3.09	2.64	1.96		2.66	2.30
Std. Error			0.05	0.20	0.07	0.14		0.19	0.04
Sample Size	1	1	24	2	17	3		4	52
Both Sexes	5,943	13,074	243,665	9,509	186,611	47,544	1,189	10,698	518,233
Percent	1.15	2.52	47.02	1.83	36.01	9.17	0.23	2.06	100.00
Sample Size	5	11	205	8	157	40	1	9	436
Mean Length	488	541	496	572	543	507	565	562	518
Std. Error	8	6	2	8	2	3		6	1
Sample Size	5	11	205	8	157	40	1	9	436
Mean Weight	2.36	3.06	2.15	3.43	2.89	2.08		2.66	2.46
Std. Error		0.29	0.05	0.20	0.07	0.10		0.19	0.04
Sample Size	2	4	57	3	32	7		4	109
Sample Period 6: July 11 - July 21									
Males	10,118	10,118	226,649	12,142	283,310	42,497	2,024	12,142	599,000
Percent	0.95	0.95	21.17	1.13	26.46	3.97	0.19	1.13	55.95
Sample Size	5	5	112	6	140	21	1	6	296
Mean Length	431	581	500	600	559	508	546	584	532
Std. Error	22	15	2	8	2	7		12	2
Sample Size	5	5	112	6	140	21	1	6	296
Mean Weight	1.25		2.17	3.99	2.96	2.00	2.80	3.34	2.59
Std. Error	0.09		0.07	0.17	0.07	0.27			0.05
Sample Size	2		26	2	37	4	1	1	73
Females	8,095	12,142	216,529	8,095	190,223	36,426			471,510
Percent	0.76	1.13	20.23	0.76	17.77	3.40			44.05
Sample Size	4	6	107	4	94	18			233
Mean Length	460	539	485	547	530	486			505
Std. Error	27	14	2	12	2	4			1
Sample Size	4	6	107	4	94	18			233
Mean Weight	1.90	3.11	1.85	2.87	2.34	1.84			2.10
Std. Error			0.04	0.24	0.08				0.04
Sample Size	1	1	31	3	24	1			61
Both Sexes	18,213	22,260	443,178	20,237	473,533	78,923	2,024	12,142	1,070,510
Percent	1.70	2.08	41.40	1.89	44.23	7.37	0.19	1.13	100.00
Sample Size	9	11	219	10	234	39	1	6	529
Mean Length	444	558	492	579	547	498	546	584	520
Std. Error	17	10	2	7	2	4		12	1
Sample Size	9	11	219	10	234	39	1	6	529
Mean Weight	1.54	3.11	2.01	3.54	2.71	1.93	2.80	3.34	2.37
Std. Error	0.09		0.04	0.14	0.05	0.27			0.03
Sample Size	3	1	57	5	61	5	1	1	134

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Table 59. (p 4 of 4)

	Age Group								Total ^a
	0.2	0.3	1.2	0.4	1.3	2.2	1.4	2.3	
All Periods Combined:									
Males	19,769	27,748	971,601	24,805	705,872	162,135	2,024	29,699	1,943,653
Percent	0.50	0.70	24.58	0.63	17.86	4.10	0.05	0.75	49.17
Sample Size	13	19	835	18	521	133	1	22	1,562
Mean Length	459	565	503	586	557	507	546	578	526
Std. Error	11	7	1	6	1	2		6	1
Sample Size	13	19	833	18	520	133	1	22	1,559
Mean Weight	1.59	3.12	2.18	3.98	3.00	2.10	2.80	3.40	2.51
Std. Error	0.09	0.36	0.03	0.17	0.04	0.09		0.31	0.02
Sample Size	4	6	180	4	137	29	1	6	367
Females	13,414	54,990	845,644	49,433	846,894	154,260	10,988	33,687	2,009,310
Percent	0.34	1.39	21.39	1.25	21.42	3.90	0.28	0.85	50.83
Sample Size	10	48	725	41	720	130	10	32	1,716
Mean Length	460	535	490	561	535	492	547	548	513
Std. Error	16	4	1	3	1	2	18	4	1
Sample Size	10	48	725	41	720	130	10	32	1,716
Mean Weight	1.86	2.53	1.93	2.97	2.50	1.91	2.52	2.75	2.22
Std. Error		0.24	0.02	0.06	0.03	0.06		0.10	0.02
Sample Size	2	8	190	14	169	23	2	13	421
Both Sexes	33,183	82,738	1,817,245	74,238	1,552,766	316,395	13,012	63,386	3,952,963
Percent	0.84	2.09	45.97	1.88	39.28	8.00	0.33	1.60	100.00
Sample Size	23	67	1,560	59	1,241	263	11	54	3,278
Mean Length	459	545	497	569	545	500	547	562	519
Std. Error	9	4	1	3	1	2	18	3	0
Sample Size	23	67	1,558	59	1,240	263	11	54	3,275
Mean Weight	1.70	2.66	2.06	3.22	2.73	2.01	2.62	3.04	2.36
Std. Error	0.09	0.21	0.02	0.06	0.02	0.06		0.09	0.01
Sample Size	6	14	370	18	306	52	3	19	788

^a Nushagak District catch does not include Igushik Beach setnet catch (492,937) which was sampled separately.

Table 60. Age, sex, and size (length in mm and weight in kg) composition of sockeye salmon commercial catch, Igushik Beach setnet fishery, 1995.

	Age Group						Total
	0.3	1.2	1.3	2.2	1.4	2.3	
Sample period: June 13 - July 21							
Males	908	21,787	208,795	14,525	908	7,262	254,185
Percent	0.2	4.42	42.36	2.95	0.18	1.47	51.57
Sample Size	1	24	230	16	1	8	280
Mean Length	590	521	572	519	573	580	565
Std. Error		5	2	5		5	2
Sample Size	1	24	230	16	1	8	280
Mean Weight		2.44	3.14		3.47	3.64	3.09
Std. Error		0.09	0.09			0.12	0.08
Sample Size		9	52		1	3	65
Females		18,156	195,177	18,156	908	6,355	238,752
Percent		3.68	39.59	3.68	0.18	1.29	48.43
Sample Size		20	215	20	1	7	263
Mean Length		493	548	494	552	559	540
Std. Error		4	2	3		8	2
Sample Size		20	215	20	1	7	263
Mean Weight		2.00	2.68	2.05		2.92	2.59
Std. Error		0.10	0.04	0.04		0.08	0.03
Sample Size		6	62	6		3	77
Both Sexes	908	39,943	403,972	32,681	1,816	13,617	492,937
Percent	0.2	8.10	81.95	6.63	0.37	2.76	100.00
Sample Size	1	44	445	36	2	15	543
Mean Length	590	508	560	505	563	571	553
Std. Error		3	1	3		5	1
Sample Size	1	44	445	36	2	15	543
Mean Weight		2.24	2.92	2.05	3.47	3.30	2.84
Std. Error		0.07	0.05	0.04		0.07	0.04
Sample Size		15	114	6	1	6	142

Table 61. Age, sex, and size (length in mm and weight in kg) composition of sockeye salmon escapement, Wood River, 1995.

	Age Group										Total	
	0.2	1.1	0.3	1.2	0.4	1.3	2.2	1.4	2.3	2.4		
Sample Period 1: June 21 - June 29												
Males			609	81,629		35,941	3,046		609			121,834
Percent			0.18	23.51		10.35	0.88		0.18			35.09
Sample Size			1	134		59	5		1			200
Mean Length			510	509		560	522		558			525
Std. Error				2		5	9					2
Sample Size			1	134		59	5		1			200
Females		609		152,901		63,963	7,310			609		225,392
Percent		0.18		44.04		18.42	2.11			0.18		64.91
Sample Size		1		251		105	12			1		370
Mean Length		297		485		544	489			558		501
Std. Error				2		3	10					1
Sample Size		1		250		105	12			1		369
Both Sexes		609	609	234,530		99,904	10,356		609	609		347,226
Percent		0.18	0.18	67.54		28.77	2.98		0.18	0.18		100.00
Sample Size		1	1	385		164	17		1	1		570
Mean Length		297	510	493		550	498		558	558		509
Std. Error				1		3	8					1
Sample Size		1	1	384		164	17		1	1		569
Sample Period 2: June 30 - July 3												
Males	350		350	22,752	350	22,052	3,500			350		49,704
Percent	0.19		0.19	12.33	0.19	11.95	1.90			0.19		26.95
Sample Size	1		1	65	1	63	10			1		142
Mean Length	441		571	510	651	585	520			578		546
Std. Error				4		3	13					3
Sample Size	1		1	65	1	63	10			1		142
Females	350			102,907	350	19,952	10,851			350		134,760
Percent	0.19			55.79	0.19	10.82	5.88			0.19		73.05
Sample Size	1			294	1	57	31			1		385
Mean Length	462			489	615	545	491			498		498
Std. Error				1		3	3					1
Sample Size	1			294	1	57	31			1		385
Both Sexes	700		350	125,659	700	42,004	14,351			700		184,464
Percent	0.38		0.19	68.12	0.38	22.77	7.78			0.38		100.00
Sample Size	2		1	359	2	120	41			2		527
Mean Length	452		571	493	633	566	498			538		511
Std. Error				1		2	4					1
Sample Size	2		1	359	2	120	41			2		527

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Table 61. (p 2 of 3)

	Age Group										Total
	0.2	1.1	0.3	1.2	0.4	1.3	2.2	1.4	2.3	2.4	
Sample Period 3: July 4 - July 7											
Males	1,671			69,605		36,752	4,455		1,114		113,597
Percent	0.48			20.03		10.58	1.28		0.32		32.69
Sample Size	3			125		66	8		2		204
Mean Length	420			517		565	505		550		531
Std. Error	8			3		4	14		26		2
Sample Size	3			125		66	8		2		204
Females	557		557	173,735		38,422	19,490		1,114		233,875
Percent	0.16		0.16	50.00		11.06	5.61		0.32		67.31
Sample Size	1		1	312		69	35		2		420
Mean Length	443		535	485		539	480		559		494
Std. Error				1		3	4		14		1
Sample Size	1		1	312		69	35		2		420
Both Sexes	2,228		557	243,340		75,174	23,945		2,228		347,472
Percent	0.64		0.16	70.03		21.63	6.89		0.64		100.00
Sample Size	4		1	437		135	43		4		624
Mean Length	426		535	494		552	484		555		506
Std. Error	8			1		3	4		15		1
Sample Size	4		1	437		135	43		4		624
Sample Period 4: July 8 - July 9											
Males	767			119,688		63,681	11,509		2,302		197,947
Percent	0.20			30.95		16.47	2.98		0.60		51.19
Sample Size	1			156		83	15		3		258
Mean Length	481			506		564	511		534		525
Std. Error				2		4	7		12		2
Sample Size	1			156		83	15		3		258
Females		767		128,897		53,707	4,603		767		188,741
Percent		0.20		33.33		13.89	1.19		0.20		48.81
Sample Size		1		168		70	6		1		246
Mean Length		334		477		539	484		525		495
Std. Error				2		3	9				1
Sample Size		1		168		70	6		1		246
Both Sexes	767	767		248,585		117,388	16,112		3,069		386,688
Percent	0.20	0.20		64.29		30.36	4.17		0.79		100.00
Sample Size	1	1		324		153	21		4		504
Mean Length	481	334		491		553	503		532		510
Std. Error				1		2	6		12		1
Sample Size	1	1		324		153	21		4		504

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Table 61. (p 3 of 3)

	Age Group										
	0.2	1.1	0.3	1.2	0.4	1.3	2.2	1.4	2.3	2.4	Total
Sample Period 5: July 10 - July 22											
Males	781		1,171	36,314	390	30,065	4,295	390	390	390	74,186
Percent	0.36		0.54	16.79	0.18	13.90	1.99	0.18	0.18	0.18	34.30
Sample Size	2		3	93	1	77	11	1	1	1	190
Mean Length	458		608	503	623	562	492	609	615	532	529
Std. Error	23		5	4		3	14				2
Sample Size	2		3	92	1	77	11	1	1	1	189
Females	781		781	105,033		25,770	9,371		390		142,126
Percent	0.36		0.36	48.56		11.91	4.33		0.18		65.70
Sample Size	2		2	269		66	24		1		364
Mean Length	400		492	473		527	467		525		482
Std. Error	23		23	2		3	3				2
Sample Size	2		2	269		66	24		1		364
Both Sexes	1,562		1,952	141,347	390	55,835	13,666	390	780	390	216,312
Percent	0.72		0.90	65.34	0.18	25.81	6.32	0.18	0.36	0.18	100.00
Sample Size	4		5	362	1	143	35	1	2	1	554
Mean Length	429		561	481	623	546	475	609	570	532	498
Std. Error	16		10	2		2	5				1
Sample Size	4		5	361	1	143	35	1	2	1	553
All Periods Combined:											
Males	3,569		2,130	329,988	740	188,491	26,805	999	4,156	390	557,268
Percent	0.24		0.14	22.26	0.05	12.72	1.81	0.07	0.28	0.03	37.60
Sample Size	7		5	573	2	348	49	2	7	1	994
Mean Length	443		574	509	636	566	509	578	550	532	529
Std. Error	9		5	1		2	5		12		1
Sample Size	7		5	572	2	348	49	2	7	1	993
Females	1,688	1,376	1,338	663,473	350	201,814	51,625		3,230		924,894
Percent	0.11	0.09	0.09	44.76	0.02	13.62	3.48		0.22		62.40
Sample Size	4	2	3	1,294	1	367	108		6		1,785
Mean Length	427	318	510	482	615	540	481		540		495
Std. Error	23		23	1		1	2		14		1
Sample Size	4	2	3	1,293	1	367	108		6		1,784
Both Sexes	5,257	1,376	3,468	993,461	1,090	390,305	78,430	999	7,386	390	1,482,162
Percent	0.35	0.09	0.23	67.03	0.07	26.33	5.29	0.07	0.50	0.03	100.00
Sample Size	11	2	8	1,867	3	715	157	2	13	1	2,779
Mean Length	438	318	549	491	629	552	491	578	545	532	507
Std. Error	9		10	1		1	2		9		1
Sample Size	11	2	8	1,865	3	715	157	2	13	1	2,777

Table 62. Age, sex, and size (length in mm and weight in kg) composition of sockeye salmon escapement, Igushik River, 1995.

	Age Group					Total
	1.2	1.3	2.2	1.4	2.3	
Sample Period 1: June 23 - June 30						
Males	6,441	43,743	1,342	268	268	52,062
Percent	4.78	32.47	1.00	0.20	0.20	38.65
Sample Size	24	163	5	1	1	194
Mean Length	511	583	538	609	589	573
Std. Error	4	2	8			2
Sample Size	24	163	5	1	1	194
Females	7,246	72,190	2,147		1,073	82,656
Percent	5.38	53.59	1.59		0.80	61.35
Sample Size	27	269	8		4	308
Mean Length	501	553	527		562	548
Std. Error	4	1	10		6	1
Sample Size	27	269	8		4	308
Both Sexes	13,687	115,933	3,489	268	1,341	134,718
Percent	10.16	86.06	2.59	0.20	1.00	100.00
Sample Size	51	432	13	1	5	502
Mean Length	506	564	531	609	567	558
Std. Error	3	1	7		6	1
Sample Size	51	432	13	1	5	502
Sample Period 2: July 1 - July 5						
Males	14,369	47,982	2,309		1,026	65,686
Percent	10.49	35.02	1.69		0.75	47.94
Sample Size	56	187	9		4	256
Mean Length	529	573	553		568	563
Std. Error	4	2	9		15	2
Sample Size	56	187	9		4	256
Females	11,803	53,112	4,362	1,283	770	71,330
Percent	8.61	38.76	3.18	0.94	0.56	52.06
Sample Size	46	207	17	5	3	278
Mean Length	496	547	509	544	562	536
Std. Error	5	2	6	11	1	2
Sample Size	46	207	17	5	3	278
Both Sexes	26,172	101,094	6,671	1,283	1,796	137,016
Percent	19.10	73.78	4.87	0.94	1.31	100.00
Sample Size	102	394	26	5	7	534
Mean Length	514	559	524	544	566	549
Std. Error	3	1	5	11	9	1
Sample Size	102	394	26	5	7	534

- Continued -

Table 62. (p 2 of 3)

	Age Group					Total
	1.2	1.3	2.2	1.4	2.3	
Sample Period 3: July 6 - July 11						
Males	7,262	28,138	3,449	182	545	39,576
Percent	7.97	30.88	3.78	0.20	0.60	43.43
Sample Size	40	155	19	1	3	218
Mean Length	523	577	536	582	575	563
Std. Error	5	2	6		20	2
Sample Size	40	155	19	1	3	218
Females	16,339	29,954	4,357		908	51,558
Percent	17.93	32.87	4.78		1.00	56.57
Sample Size	90	165	24		5	284
Mean Length	492	539	499		543	521
Std. Error	3	2	5		10	1
Sample Size	90	165	24		5	284
Both Sexes	23,601	58,092	7,806	182	1,453	91,134
Percent	25.90	63.74	8.57	0.20	1.59	100.00
Sample Size	130	320	43	1	8	502
Mean Length	502	558	515	582	555	539
Std. Error	2	1	4		10	1
Sample Size	130	320	43	1	8	502
Sample Period 4: July 12 - July 22						
Males	14,650	25,161	7,962		955	48,728
Percent	13.26	22.77	7.20		0.86	44.09
Sample Size	46	79	25		3	153
Mean Length	523	575	524		574	551
Std. Error	4	2	4		8	2
Sample Size	46	79	25		3	153
Females	21,657	23,886	14,332		1,911	61,786
Percent	19.60	21.61	12.97		1.73	55.91
Sample Size	68	75	45		6	194
Mean Length	486	532	493		528	507
Std. Error	3	3	3		11	2
Sample Size	68	75	45		6	194
Both Sexes	36,307	49,047	22,294		2,866	110,514
Percent	32.85	44.38	20.17		2.59	100.00
Sample Size	114	154	70		9	347
Mean Length	501	554	504		543	526
Std. Error	2	2	3		8	1
Sample Size	114	154	70		9	347

- Continued -

Table 62. (p 3 of 3)

	Age Group					Total
	1.2	1.3	2.2	1.4	2.3	
All Periods Combined:						
Males	42,722	145,024	15,062	450	2,794	206,052
Percent	9.02	30.64	3.18	0.10	0.59	43.53
Sample Size	166	584	58	2	11	821
Mean Length	523	577	533	598	573	563
Std. Error	2	1	3		8	1
Sample Size	166	584	58	2	11	821
Females	57,045	179,142	25,198	1,283	4,662	267,330
Percent	12.05	37.84	5.32	0.27	0.98	56.47
Sample Size	231	716	94	5	18	1,064
Mean Length	492	546	500	544	544	530
Std. Error	2	1	2	11	5	1
Sample Size	231	716	94	5	18	1,064
Both Sexes	99,767	324,166	40,260	1,733	7,456	473,382
Percent	21.08	68.48	8.50	0.37	1.58	100.00
Sample Size	397	1,300	152	7	29	1,885
Mean Length	505	560	512	558	555	544
Std. Error	1	1	2	11	4	1
Sample Size	397	1,300	152	7	29	1,885

Table 63. Age, sex, and size (length in mm and weight in kg) composition of sockeye salmon escapement, Nushagak River, 1995.

	Age Group								Total	
	0.2	0.3	1.2	0.4	1.3	2.2	1.4	2.3		3.2
Sample Period 1: June 8 - July 4										
Males	27,022	11,581	26,470	4,963	24,264	1,654	1,654			97,608
Percent	17.69	7.58	17.33	3.25	15.88	1.08	1.08			63.90
Sample Size	49	21	48	9	44	3	3			177
Mean Length	423	549	441	616	571	459	573			493
Std. Error	2	12	6	8	6	26	35			3
Sample Size	48	21	48	9	44	3	3			176
Females	1,654	17,095	4,963	6,617	20,956	551	3,309			55,145
Percent	1.08	11.19	3.25	4.33	13.72	0.36	2.17			36.10
Sample Size	3	31	9	12	38	1	6			100
Mean Length	441	542	451	577	543	490	564			536
Std. Error	22	4	12	6	4		6			2
Sample Size	3	31	9	12	37	1	6			99
Both Sexes	28,676	28,676	31,433	11,580	45,220	2,205	4,963			152,753
Percent	18.77	18.77	20.58	7.58	29.60	1.44	3.25			100.00
Sample Size	52	52	57	21	82	4	9			277
Mean Length	424	545	443	594	558	467	567			508
Std. Error	2	6	5	5	3	26	12			2
Sample Size	51	52	57	21	81	4	9			275
Sample Period 2: July 5 - August 19										
Males	19,591	6,717	14,926	8,769	17,725	933	1,119	187	187	70,154
Percent	15.24	5.23	11.61	6.82	13.79	0.73	0.87	0.15	0.15	54.57
Sample Size	105	36	80	47	95	5	6	1	1	376
Mean Length	432	573	458	607	568	516	587	546	485	511
Std. Error	4	6	6	4	3	9	33			2
Sample Size	105	36	80	45	95	5	6	1	1	374
Females	4,291	13,061	7,650	11,381	19,032	1,306	1,119	560		58,400
Percent	3.34	10.16	5.95	8.85	14.80	1.02	0.87	0.44		45.43
Sample Size	23	70	41	61	102	7	6	3		313
Mean Length	462	534	490	565	538	470	571	547		530
Std. Error	11	3	5	3	2	13	7	12		2
Sample Size	22	70	41	61	101	7	6	3		311
Both Sexes	23,882	19,778	22,576	20,150	36,757	2,239	2,238	747	187	128,554
Percent	18.58	15.38	17.56	15.67	28.59	1.74	1.74	0.58	0.15	100.00
Sample Size	128	106	121	108	197	12	12	4	1	689
Mean Length	437	547	469	583	552	489	579	547	485	520
Std. Error	4	3	4	2	2	8	17	12		1
Sample Size	127	106	121	106	196	12	12	4	1	685

- Continued -

Table 63. (p 2 of 2)

	Age Group									Total
	0.2	0.3	1.2	0.4	1.3	2.2	1.4	2.3	3.2	
All Periods Combined:										
Males	46,613	18,298	41,396	13,732	41,989	2,587	2,773	187	187	167,762
Percent	16.57	6.50	14.72	4.88	14.93	0.92	0.99	0.07	0.07	59.64
Sample Size	154	57	128	56	139	8	9	1	1	553
Mean Length	427	558	447	610	570	479	579	546	485	500
Std. Error	2	8	4	4	4	17	25			2
Sample Size	153	57	128	54	139	8	9	1	1	550
Females	5,945	30,156	12,613	17,998	39,988	1,857	4,428	560		113,545
Percent	2.11	10.72	4.48	6.40	14.22	0.66	1.57	0.20		40.36
Sample Size	26	101	50	73	140	8	12	3		413
Mean Length	456	539	475	570	541	476	565	547		533
Std. Error	10	3	6	3	2	13	5	12		1
Sample Size	25	101	50	73	138	8	12	3		410
Both Sexes	52,558	48,454	54,009	31,730	81,977	4,444	7,201	747	187	281,307
Percent	18.68	17.22	19.20	11.28	29.14	1.58	2.56	0.27	0.07	100.00
Sample Size	180	158	178	129	279	16	21	4	1	966
Mean Length	430	546	454	587	556	478	571	547	485	514
Std. Error	2	3	4	2	2	12	10	12		1
Sample Size	178	158	178	127	277	16	21	4	1	960

Table 64. Age, sex and size (length in mm and weight in kg) composition of sockeye salmon escapement, Nuyakuk River, 1995.

	Age Group								Total ^a
	0.2	0.3	1.2	0.4	1.3	2.2	1.4	2.3	
Sample period: July 4 - July 20									
Males	2,804	935	18,160	534	13,753	134	534	267	37,121
Percent	4.02	1.34	26.05	0.77	19.73	0.19	0.77	0.38	53.26
Sample Size	21	7	136	4	103	1	4	2	278
Mean Length	444	591	474	589	582	481	636	574	519
Std. Error	7	17	4	49	4		8	44	3
Sample Size	21	7	136	4	103	1	4	2	278
Females	401	801	10,148	1,202	18,427	801	267	534	32,581
Percent	0.58	1.15	14.56	1.72	26.44	1.15	0.38	0.77	46.74
Sample Size	3	6	76	9	138	6	2	4	244
Mean Length	461	543	487	560	541	492	572	532	523
Std. Error	34	9	3	13	3	13	15	14	2
Sample Size	3	6	75	9	137	6	2	4	242
Both Sexes	3,205	1,736	28,308	1,736	32,180	935	801	801	69,702
Percent	4.60	2.49	40.61	2.49	46.17	1.34	1.15	1.15	100.00
Sample Size	24	13	212	13	241	7	6	6	522
Mean Length	446	569	479	569	558	490	615	546	521
Std. Error	8	10	3	18	2	13	7	18	2
Sample Size	24	13	211	13	240	7	6	6	520

^a Enumeration and escapement sampling was done by Fisheries Research Institute personnel from University of Washington.

Table 65. Age, sex, and size (length in mm and weight in kg) composition of sockeye salmon commercial catch, Togiak River Section, 1995.

	Age Group							Total
	0.2	0.3	1.2	0.4	1.3	2.2	1.4	
Sample Period 1: June 12 - July 7								
Males	76	4,243	76	10,076	758	152	227	15,608
Percent	0.20	11.05	0.20	26.23	1.97	0.40	0.59	40.63
Sample Size	1	56	1	133	10	2	3	206
Mean Length	574	533	604	585	522	596	600	568
Std. Error		3		2	10	15	15	2
Sample Size	1	56	1	133	10	2	3	206
Mean Weight	3.79	2.52	4.41	3.86	2.57		3.74	3.43
Std. Error		0.11		0.09	0.17			0.06
Sample Size	1	8	1	33	3		1	47
Females	227	6,137	76	15,304	530	76	455	22,805
Percent	0.59	15.98	0.20	39.84	1.38	0.20	1.18	59.37
Sample Size	3	81	1	202	7	1	6	301
Mean Length	539	506	538	551	521	570	554	538
Std. Error	28	7		1	12		7	2
Sample Size	3	81	1	202	7	1	6	301
Mean Weight	1.87	2.12	2.90	2.75	2.57	3.06	2.87	2.57
Std. Error		0.09		0.04	0.48		0.42	0.04
Sample Size	1	23	1	49	3	1	2	80
Both Sexes	303	10,380	152	25,380	1,288	228	682	38,413
Percent	0.79	27.02	0.40	66.07	3.35	0.59	1.78	100.00
Sample Size	4	137	2	335	17	3	9	507
Mean Length	548	517	571	564	521	587	569	550
Std. Error	28	4		1	8	15	7	1
Sample Size	4	137	2	335	17	3	9	507
Mean Weight	2.35	2.28	3.66	3.19	2.57	3.06	3.16	2.92
Std. Error		0.07		0.04	0.22		0.42	0.03
Sample Size	2	31	2	82	6	1	3	127
Sample Period 2: July 8 - July 16								
Males	250	16,737	250	35,722	5,995	749	2,748	62,451
Percent	0.19	12.98	0.19	27.71	4.65	0.58	2.13	48.45
Sample Size	1	67	1	143	24	3	11	250
Mean Length	571	533	608	583	536	597	591	566
Std. Error		4		2	5	9	7	2
Sample Size	1	67	1	143	24	3	11	250
Mean Weight	3.46	2.79		3.60	2.68	4.17	4.01	3.32
Std. Error		0.26		0.05	0.13		0.21	0.08
Sample Size	1	25		46	6	1	3	82
Females	999	11,491	250	45,963	5,246		2,498	66,447
Percent	0.78	8.91	0.19	35.66	4.07		1.94	51.55
Sample Size	4	46	1	184	21		10	266
Mean Length	544	526	582	551	516		558	545
Std. Error	6	5		2	6		5	2
Sample Size	4	46	1	184	21		10	266
Mean Weight		2.38		3.33	2.04		6.33	3.17
Std. Error		0.12		0.25	0.05		3.47	0.22
Sample Size		13		33	5		2	53
Both Sexes	1,249	28,228	500	81,685	11,241	749	5,246	128,898
Percent	0.97	21.90	0.39	63.37	8.72	0.58	4.07	100.00
Sample Size	5	113	2	327	45	3	21	516
Mean Length	550	530	595	565	527	597	576	555
Std. Error	6	3		1	4	9	5	1
Sample Size	5	113	2	327	45	3	21	516
Mean Weight	3.46	2.62		3.45	2.38	4.17	5.11	3.24
Std. Error		0.16		0.14	0.07		1.66	0.12
Sample Size	1	38		79	11	1	5	135

- Continued -

Table 65. (p 2 of 2)

	Age Group							Total	
	0.2	0.3	1.2	0.4	1.3	2.2	1.4		2.3
Sample Period 3: July 17 - August 23									
Males			36,411	714	93,528	22,846		14,279	167,778
Percent			10.12	0.20	25.99	6.35		3.97	46.63
Sample Size			51	1	131	32		20	235
Mean Length			536	574	581	535		578	565
Std. Error			3		2	3		5	1
Sample Size			51	1	131	32		20	235
Mean Weight			2.66	3.56	3.62	2.84		3.35	3.28
Std. Error			0.08		0.06	0.15		0.17	0.05
Sample Size			16	1	39	6		8	70
Females	714		40,695		111,377	27,130		12,137	192,053
Percent	0.20		11.31		30.95	7.54		3.37	53.37
Sample Size	1		57		156	38		17	269
Mean Length	524		516		552	524		560	541
Std. Error			4		1	4		5	1
Sample Size	1		57		156	38		17	269
Mean Weight			2.31		2.8	2.37		3.19	2.66
Std. Error			0.07		0.06	0.07		0.14	0.04
Sample Size			10		38	11		5	64
Both Sexes	714		77,106	714	204,905	49,976		26,416	359,831
Percent	0.20		21.43	0.20	56.94	13.89		7.34	100.00
Sample Size	1		108	1	287	70		37	504
Mean Length	524		526	574	565	529		569	552
Std. Error			2		1	3		3	1
Sample Size	1		108	1	287	70		37	504
Mean Weight			2.48	3.56	3.17	2.58		3.28	2.95
Std. Error			0.05		0.05	0.08		0.11	0.03
Sample Size			26	1	77	17		13	134
All Periods Combined:									
Males		326	57,391	1,040	139,326	29,599	901	17,254	245,837
Percent		0.06	10.89	0.20	26.43	5.61	0.17	3.27	46.64
Sample Size		2	174	3	407	66	5	34	691
Mean Length		572	535	584	582	535	596	580	565
Std. Error			2		1	3	8	4	1
Sample Size		2	174	3	407	66	5	34	691
Mean Weight		3.54	2.69	3.64	3.63	2.80	4.17	3.46	3.3
Std. Error			0.09		0.05	0.12		0.15	0.04
Sample Size		2	49	2	118	15	1	12	199
Females	714	1,226	58,323	326	172,644	32,906	76	15,090	281,305
Percent	0.1	0.23	11.06	0.06	32.75	6.24	0.01	2.86	53.36
Sample Size	1	7	184	2	542	66	1	33	836
Mean Length	524	543	517	572	552	523	570	559	542
Std. Error			7		1	4		4	1
Sample Size	1	7	184	2	542	66	1	33	836
Mean Weight		1.87	2.30	2.90	2.94	2.32	3.06	3.70	2.77
Std. Error			0.06		0.08	0.06		0.59	0.06
Sample Size		1	46	1	120	19	1	9	197
Both Sexes	714	1,552	115,714	1,366	311,970	62,505	977	32,344	527,142
Percent	0.1	0.29	21.95	0.26	59.18	11.86	0.19	6.14	100.00
Sample Size	1	9	358	5	949	132	6	67	1,527
Mean Length	524	549	526	581	565	529	594	570	553
Std. Error			7		1	2	8	3	1
Sample Size	1	9	358	5	949	132	6	67	1,527
Mean Weight		2.85	2.49	3.58	3.25	2.55	4.07	3.57	3.02
Std. Error			0.05		0.05	0.06		0.29	0.04
Sample Size		3	95	3	238	34	2	21	396

Table 66. Age, sex, and size (length in mm and weight in kg) composition of sockeye salmon commercial catch, Kulukak Section, Togiak District, 1995.

	Age Group								Total
	0.2	0.3	1.2	0.4	1.3	2.2	1.4	2.3	
Sample period: June 19 - August 2									
Males	149	447	8,500	149	18,940	3,877	597	1,939	34,598
Percent	0.20	0.59	11.18	0.20	24.90	5.10	0.78	2.55	45.49
Sample Size	1	3	57	1	127	26	4	13	232
Mean Length	543	549	532	587	583	541	612	583	565
Std. Error		8	3		2	4	10	5	1
Sample Size	1	3	57	1	127	26	4	13	232
Mean Weight			2.63		3.48	2.63	4.03	3.56	3.18
Std. Error			0.07		0.06	0.14	0.20	0.38	0.05
Sample Size			13		41	8	3	2	67
Females		447	7,158	298	27,889	4,026	298	1,342	41,458
Percent		0.59	9.41	0.39	36.67	5.29	0.39	1.76	54.51
Sample Size		3	48	2	187	27	2	9	278
Mean Length		538	521	591	553	524	565	559	545
Std. Error		12	5	8	1	5	10	11	1
Sample Size		3	48	2	187	27	2	9	278
Mean Weight		2.13	2.33		2.79	2.26	2.59		2.64
Std. Error			0.11		0.06	0.11			0.05
Sample Size		1	13		39	6	1		60
Both Sexes	149	894	15,658	447	46,829	7,903	895	3,281	76,056
Percent	0.20	1.18	20.59	0.59	61.57	10.39	1.18	4.31	100.00
Sample Size	1	6	105	3	314	53	6	22	510
Mean Length	543	544	527	590	565	532	596	573	554
Std. Error		7	3	8	1	3	8	5	1
Sample Size	1	6	105	3	314	53	6	22	510
Mean Weight		2.13	2.49		3.07	2.44	3.55	3.56	2.89
Std. Error			0.06		0.04	0.09	0.20	0.38	0.03
Sample Size		1	26		80	14	4	2	127

Table 67. Age, sex, and size (length in mm and weight in kg) composition of sockeye salmon escapement, Togiak River, 1995.

	Age Group						Total	
	0.2	0.3	1.2	1.3	2.2	1.4		2.3
Sample Period 1: July 3 - July 13								
Males		209	9,523	15,591	628	105	523	26,579
Percent		0.39	17.74	29.04	1.17	0.20	0.97	49.51
Sample Size		2	91	149	6	1	5	254
Mean Length		586	530	587	540	526	582	565
Std. Error		4	3	2	12		9	2
Sample Size		2	91	149	6	1	5	254
Females	105	314	6,383	19,359	628		314	27,103
Percent	0.20	0.58	11.89	36.06	1.17		0.58	50.49
Sample Size	1	3	61	185	6		3	259
Mean Length	490	554	500	551	513		561	538
Std. Error		9	3	2	9		5	2
Sample Size	1	3	61	185	6		3	259
Both Sexes	105	523	15,906	34,950	1,256	105	837	53,682
Percent	0.20	0.97	29.63	65.11	2.34	0.20	1.56	100.00
Sample Size	1	5	152	334	12	1	8	513
Mean Length	490	567	518	567	526	526	574	551
Std. Error		6	2	2	8		6	1
Sample Size	1	5	152	334	12	1	8	513
Sample Period 2: July 14 - July 21								
Males	139	139	10,406	29,415	694		832	41,625
Percent	0.17	0.17	12.82	36.24	0.86		1.03	51.28
Sample Size	1	1	75	212	5		6	300
Mean Length	540	607	532	590	533		584	574
Std. Error			3	2	4		10	1
Sample Size	1	1	75	212	5		6	300
Females	139		12,349	23,170	2,081		1,804	39,543
Percent	0.17		15.21	28.55	2.56		2.22	48.72
Sample Size	1		89	167	15		13	285
Mean Length	493		506	554	513		558	537
Std. Error			2	2	7		5	1
Sample Size	1		89	167	15		13	285
Both Sexes	278	139	22,755	52,585	2,775		2,636	81,168
Percent	0.34	0.17	28.03	64.79	3.42		3.25	100.00
Sample Size	2	1	164	379	20		19	585
Mean Length	517	607	518	574	518		566	556
Std. Error			2	1	5		5	1
Sample Size	2	1	164	379	20		19	585

- Continued -

Table 67. (p 2 of 2)

	Age Group							Total ^a
	0.2	0.3	1.2	1.3	2.2	1.4	2.3	
Sample Period 3: July 22 - August 7								
Males		133	6,924	12,784	1,864		2,264	23,969
Percent		0.26	13.61	25.13	3.66		4.45	47.12
Sample Size		1	52	96	14		17	180
Mean Length		590	523	582	530		570	560
Std. Error			4	3	8		5	2
Sample Size		1	52	96	14		17	180
Females			12,118	10,653	3,063		1,065	26,899
Percent			23.82	20.94	6.02		2.09	52.88
Sample Size			91	80	23		8	202
Mean Length			501	551	508		548	523
Std. Error			3	3	4		11	2
Sample Size			91	80	23		8	202
Both Sexes		133	19,042	23,437	4,927		3,329	50,868
Percent		0.26	37.43	46.07	9.69		6.54	100.00
Sample Size		1	143	176	37		25	382
Mean Length		590	509	568	516		563	541
Std. Error			2	2	4		5	1
Sample Size		1	143	176	37		25	382
All Periods Combined:								
Males	139	481	26,853	57,790	3,186	105	3,619	92,173
Percent	0.07	0.26	14.46	31.12	1.72	0.06	1.95	49.63
Sample Size	1	4	218	457	25	1	28	734
Mean Length	540	593	529	588	533	526	575	568
Std. Error		4	2	1	5		4	1
Sample Size	1	4	218	457	25	1	28	734
Females	244	314	30,850	53,182	5,772		3,183	93,545
Percent	0.13	0.17	16.61	28.64	3.11		1.71	50.37
Sample Size	2	3	241	432	44		24	746
Mean Length	492	554	503	552	510		555	533
Std. Error		9	2	1	3		5	1
Sample Size	2	3	241	432	44		24	746
Both Sexes	383	795	57,703	110,972	8,958	105	6,802	185,718
Percent	0.21	0.43	31.07	59.75	4.82	0.06	3.66	100.00
Sample Size	3	7	459	889	69	1	52	1,480
Mean Length	509	578	515	571	518	526	566	550
Std. Error		6	1	1	3		3	1
Sample Size	3	7	459	889	69	1	52	1,480

^a Total does not include 25,508 sockeye salmon counted, in the tributaries and mainstem Togiak River, below the counting towers.

Table 68. Age, sex, and size (length in mm and weight in kg) composition of sockeye salmon escapement, Kulukak River, 1995.

	Age Group										Total ^a
	0.2	1.1	0.3	1.2	0.4	1.3	2.2	1.4	2.3	3.3	
Sample period: June 19 - August 22											
Males	79	20	59	393		1,671	157	79	79	20	2,557
Percent	1.32	0.33	0.98	6.55		27.85	2.62	1.32	1.32	0.33	42.62
Sample Size	4	1	3	20		85	8	4	4	1	130
Mean Length	410	410	575	517		577	537	598	574	625	560
Std. Error	5		19	9		2	8	11	7		2
Sample Size	4	1	3	20		85	8	4	4	1	130
Females			79	984	59	2,006	79	59	177		3,443
Percent			1.32	16.40	0.98	33.43	1.32	0.98	2.95		57.38
Sample Size			4	50	3	102	4	3	9		175
Mean Length			530	496	545	536	493	550	541		524
Std. Error			5	5	8	2	8	5	8		2
Sample Size			4	50	3	102	4	3	9		175
Both Sexes	79	20	138	1,377	59	3,677	236	138	256	20	6,000
Percent	1.32	0.33	2.30	22.95	0.98	61.28	3.93	2.30	4.27	0.33	100.00
Sample Size	4	1	7	70	3	187	12	7	13	1	305
Mean Length	410	410	549	502	545	555	522	577	551	625	539
Std. Error	5		9	4	8	2	6	6	6		2
Sample Size	4	1	7	70	3	187	12	7	13	1	305

^a Total escapement count is from aerial survey. Scale samples were taken by USF&WS personnel.

Table 69. Age and size (length in mm and weight in kg) composition of chinook salmon commercial catch, Nushagak District, 1995.

	Age Group					Total
	1.2	1.3	1.4	1.5	2.4	
Sample Period 1: June 9 - June 26						
Both Sexes	10,121	15,978	37,639	796	114	64,648
Percent	15.66	24.71	58.22	1.23	0.18	100.00
Sample Size	178	281	662	14	2	1,137
Mean Length	591	745	854	888	788	786
Std. Error	4	4	3	15	31	2
Sample Size	178	281	661	14	2	1,136
Mean Weight	3.41	6.09	9.40	8.54		7.63
Std. Error	0.18	0.33	0.29	4.18		0.19
Sample Size	51	96	206	4		357
Sample Period 2: June 27 - July 21						
Both Sexes	6,698	2,594	5,730	233	39	15,294
Percent	43.79	16.96	37.47	1.52	0.26	100.00
Sample Size	173	67	148	6	1	395
Mean Length	582	733	859	923	782	717
Std. Error	7	12	7	17		5
Sample Size	173	66	148	6	1	394
Mean Weight	4.95	7.91	10.78	10.70	7.50	7.72
Std. Error	0.50	0.71	0.43	2.36		0.30
Sample Size	62	26	57	5	1	151
All Periods Combined:						
Both Sexes	16,819	18,572	43,369	1,029	153	79,942
Percent	21.04	23.23	54.25	1.29	0.19	100.00
Sample Size	351	348	810	20	3	1,532
Mean Length	587	743	855	896	786	773
Std. Error	4	4	2	13	31	2
Sample Size	351	347	809	20	3	1,530
Mean Weight	4.02	6.34	9.58	8.97	7.50	7.65
Std. Error	0.24	0.30	0.25	2.66		0.16
Sample Size	113	122	263	9	1	508

Table 70. Age and size (length in mm and weight in kg) composition of chinook salmon escapement, Nushagak River, 1995.

	Age Group						Total
	1.1	0.3	1.2	1.3	1.4	1.5	
Sample period: June 8 - August 19							
Both Sexes	904	226	34,112	13,555	35,921	904	85,622
Percent	1.06	0.26	39.84	15.83	41.95	1.06	100.00
Sample Size	4	1	151	60	159	4	379
Mean Length	366	810	564	711	869	944	718
Std. Error	7		5	12	6	25	4
Sample Size	4	1	151	60	159	4	379

Table 71. Age and size (length in mm and weight in kg) composition of chinook salmon commercial catch, Togiak River Section, 1995.

	Age Group						Total
	1.1	1.2	1.3	1.4	2.3	1.5	
Sample period: June 6 - August 17							
Both Sexes	71	3,696	2,015	4,845	18	123	10,768
Percent	0.66	34.32	18.71	44.99	0.17	1.14	100.00
Sample Size	4	209	114	274	1	7	609
Mean Length	476	564	716	874	682	898	735
Std. Error	22	4	8	4		16	3
Sample Size	4	209	114	274	1	7	609
Mean Weight		3.62	7.60	11.85		14.20	8.23
Std. Error		0.12	0.63	0.31		1.37	0.19
Sample Size		51	28	88		3	170

Table 72. Age, sex, and size (length in mm and weight in kg) composition of chum salmon commercial catch, Nushagak District, 1995.

	Age Group				Total
	0.2	0.3	0.4	0.5	
Sample Period 1: June 9 - June 26					
Males	2,459	15,456	16,509	2,108	36,532
Percent	2.68	16.86	18.01	2.30	39.85
Sample Size	7	44	47	6	104
Mean Length	559	587	609	605	596
Std. Error	6	5	5	17	3
Sample Size	7	44	47	6	104
Mean Weight	2.85	3.03	3.64	4.31	3.37
Std. Error		0.09	0.18	0.77	0.10
Sample Size	1	28	25	3	57
Females	3,864	24,238	24,588	2,459	55,149
Percent	4.21	26.44	26.82	2.68	60.15
Sample Size	11	69	70	7	157
Mean Length	543	563	575	574	567
Std. Error	5	3	4	7	2
Sample Size	11	69	70	7	157
Mean Weight	2.39	2.74	3.00	2.88	2.84
Std. Error		0.08	0.14	0.08	0.07
Sample Size	1	24	23	2	50
Both Sexes	6,323	39,694	41,097	4,567	91,681
Percent	6.90	43.30	44.83	4.98	100.00
Sample Size	18	113	117	13	261
Mean Length	549	572	589	588	579
Std. Error	4	2	3	9	2
Sample Size	18	113	117	13	261
Mean Weight	2.57	2.85	3.26	3.54	3.05
Std. Error		0.06	0.11	0.36	0.06
Sample Size	2	52	48	5	107
Sample Period 2: June 27 - July 21					
Males	7,299	54,482	34,410	2,867	99,058
Percent	2.45	18.25	11.53	0.96	33.19
Sample Size	28	209	132	11	380
Mean Length	540	565	581	587	569
Std. Error	5	2	2	9	1
Sample Size	28	208	132	11	379
Mean Weight	2.81	3.08	3.34	3.12	3.15
Std. Error	0.22	0.07	0.09	0.33	0.06
Sample Size	5	49	38	5	97
Females	14,077	107,921	70,383	7,038	199,419
Percent	4.72	36.16	23.58	2.36	66.81
Sample Size	54	414	270	27	765
Mean Length	524	542	556	558	546
Std. Error	4	2	1	4	1
Sample Size	54	414	270	27	765
Mean Weight	2.22	2.56	2.86	2.73	2.65
Std. Error	0.13	0.04	0.07	0.17	0.04
Sample Size	16	98	68	7	189
Both Sexes	21,376	162,403	104,793	9,905	298,477
Percent	7.16	54.41	35.11	3.32	100.00
Sample Size	82	623	402	38	1,145
Mean Length	530	550	564	566	554
Std. Error	3	1	1	4	1
Sample Size	82	622	402	38	1,144
Mean Weight	2.42	2.73	3.02	2.84	2.82
Std. Error	0.11	0.04	0.06	0.16	0.03
Sample Size	21	147	106	12	286

- Continued -

Table 72. (page 2 of 2)

	Age Group				Total
	0.2	0.3	0.4	0.5	
All Periods Combined:					
Males	9,758	69,938	50,919	4,975	135,590
Percent	2.50	17.93	13.05	1.28	34.75
Sample Size	35	253	179	17	484
Mean Length	545	570	590	595	576
Std. Error	4	2	2	9	1
Sample Size	35	252	179	17	483
Mean Weight	2.82	3.07	3.44	3.62	3.21
Std. Error	0.22	0.06	0.09	0.38	0.05
Sample Size	6	77	63	8	154
Females	17,941	132,159	94,971	9,497	254,568
Percent	4.60	33.87	24.34	2.43	65.25
Sample Size	65	483	340	34	922
Mean Length	528	546	561	562	551
Std. Error	3	1	1	4	1
Sample Size	65	483	340	34	922
Mean Weight	2.26	2.59	2.90	2.77	2.69
Std. Error	0.13	0.04	0.06	0.13	0.03
Sample Size	17	122	91	9	239
Both Sexes	27,699	202,097	145,890	14,472	390,158
Percent	7.10	51.80	37.39	3.71	100.00
Sample Size	100	736	519	51	1,406
Mean Length	534	554	571	573	560
Std. Error	3	1	1	4	1
Sample Size	100	735	519	51	1,405
Mean Weight	2.46	2.76	3.09	3.06	2.87
Std. Error	0.11	0.03	0.05	0.16	0.03
Sample Size	23	199	154	17	393

Table 73. Age, sex, and size (length in mm and weight in kg) composition of chum salmon escapement, Nushagak River, 1995.

	Age Group				Total
	0.2	0.3	0.4	0.5	
Sample period: June 8 - August 19					
Males	4,369	52,425	54,852	9,708	121,354
Percent	2.05	24.66	25.80	4.57	57.08
Sample Size	9	108	113	20	250
Mean Length	553	587	606	600	595
Std. Error	9	3	3	6	2
Sample Size	9	107	113	20	249
Females	5,340	41,745	35,921	8,252	91,258
Percent	2.51	19.63	16.90	3.88	42.92
Sample Size	11	86	74	17	188
Mean Length	509	546	565	575	554
Std. Error	8	2	3	9	2
Sample Size	11	86	73	17	187
Both Sexes	9,709	94,170	90,773	17,960	212,612
Percent	4.57	44.29	42.69	8.45	100.00
Sample Size	20	194	187	37	438
Mean Length	529	569	589	589	577
Std. Error	6	2	2	5	1
Sample Size	20	193	186	37	436

Table 74. Age, sex, and size (length in mm and weight in kg) composition of chum salmon commercial catch, Togiak River Section, 1995.

	Age Group				Total
	0.2	0.3	0.4	0.5	
Sample Period 1: June 12 - July 17					
Males	2,470	15,746	17,906	926	37,048
Percent	2.16	13.75	15.63	0.81	32.34
Sample Size	8	51	58	3	120
Mean Length	551	581	596	584	587
Std. Error	9	4	4	15	3
Sample Size	8	51	58	3	120
Mean Weight	2.97	3.54	3.72	4.66	3.62
Std. Error	0.01	0.14	0.10		0.07
Sample Size	2	18	15	1	36
Females	5,249	30,256	36,739	5,249	77,493
Percent	4.58	26.41	32.07	4.58	67.66
Sample Size	17	98	119	17	251
Mean Length	537	564	570	568	565
Std. Error	6	3	2	4	2
Sample Size	17	98	119	17	251
Mean Weight	2.61	2.82	2.91	2.81	2.85
Std. Error	0.13	0.07	0.06	0.09	0.04
Sample Size	4	31	39	7	81
Both Sexes	7,719	46,002	54,645	6,175	114,541
Percent	6.74	40.16	47.71	5.39	100.00
Sample Size	25	149	177	20	371
Mean Length	542	570	578	570	572
Std. Error	5	2	2	4	1
Sample Size	25	149	177	20	371
Mean Weight	2.73	3.07	3.18	3.09	3.10
Std. Error	0.09	0.07	0.05	0.09	0.04
Sample Size	6	49	54	8	117
Sample Period 2: July 18 - August 23					
Males	3,040	8,034	11,726	1,303	24,103
Percent	3.64	9.61	14.03	1.56	28.83
Sample Size	14	37	54	6	111
Mean Length	569	578	596	603	587
Std. Error	6	4	4	14	3
Sample Size	14	37	54	6	111
Mean Weight	3.23	3.55	3.98	3.67	3.73
Std. Error	0.23	0.21	0.18	0.35	0.12
Sample Size	3	12	18	3	36
Females	5,429	27,794	24,537	1,737	59,497
Percent	6.49	33.25	29.35	2.08	71.17
Sample Size	25	128	113	8	274
Mean Length	548	558	568	565	562
Std. Error	4	2	2	11	2
Sample Size	25	128	113	8	274
Mean Weight	2.87	2.79	3.09	2.87	2.92
Std. Error	0.04	0.06	0.09	0.33	0.05
Sample Size	4	31	26	2	63
Both Sexes	8,469	35,828	36,263	3,040	83,600
Percent	10.13	42.86	43.38	3.64	100.00
Sample Size	39	165	167	14	385
Mean Length	555	563	577	581	569
Std. Error	3	2	2	9	1
Sample Size	39	165	167	14	385
Mean Weight	3.00	2.96	3.38	3.21	3.15
Std. Error	0.09	0.07	0.08	0.24	0.05
Sample Size	7	43	44	5	99

- Continued -

Table 74. (p 2 of 2)

	Age Group				Total
	0.2	0.3	0.4	0.5	
All Periods Combined:					
Males	5,510	23,780	29,632	2,229	61,151
Percent	2.78	12.00	14.96	1.12	30.86
Sample Size	22	88	112	9	231
Mean Length	561	580	596	595	587
Std. Error	5	3	3	10	2
Sample Size	22	88	112	9	231
Mean Weight	3.11	3.54	3.82	4.08	3.66
Std. Error	0.13	0.12	0.09	0.35	0.06
Sample Size	5	30	33	4	72
Females	10,678	58,050	61,276	6,986	136,990
Percent	5.39	29.30	30.93	3.53	69.14
Sample Size	42	226	232	25	525
Mean Length	543	561	569	567	564
Std. Error	4	2	2	4	1
Sample Size	42	226	232	25	525
Mean Weight	2.74	2.81	2.98	2.82	2.88
Std. Error	0.06	0.05	0.05	0.11	0.03
Sample Size	8	62	65	9	144
Both Sexes	16,188	81,830	90,908	9,215	198,141
Percent	8.17	41.30	45.88	4.65	100.00
Sample Size	64	314	344	34	756
Mean Length	549	567	578	574	571
Std. Error	3	2	1	4	1
Sample Size	64	314	344	34	756
Mean Weight	2.87	3.02	3.26	3.13	3.12
Std. Error	0.06	0.05	0.05	0.11	0.03
Sample Size	13	92	98	13	216

Table 75. Age, sex, and size (length in mm and weight in kg) composition of chum salmon escapement, Kulukak River, 1995.

	Age Group				Total ^a
	0.2	0.3	0.4	0.5	
Sample period: June 22 - August 31					
Males	102	1,363	2,591	477	4,533
Percent	1.34	17.93	34.09	6.28	59.64
Sample Size	6	80	152	28	266
Mean Length	575	592	615	620	608
Std. Error	13	3	2	6	2
Sample Size	6	80	151	28	265
Females	102	971	1,772	222	3,067
Percent	1.34	12.78	23.32	2.92	40.36
Sample Size	6	57	104	13	180
Mean Length	544	565	580	595	575
Std. Error	6	4	2	7	2
Sample Size	6	57	104	13	180
Both Sexes	204	2,334	4,363	699	7,600
Percent	2.68	30.71	57.41	9.20	100.00
Sample Size	12	137	256	41	446
Mean Length	560	581	601	612	594
Std. Error	7	2	2	5	1
Sample Size	12	137	255	41	445

^a Total escapement count is from aerial survey. Scale samples were taken by USF&WS personnel.

Table 76. Age, sex, and size (length in mm and weight in kg) composition of coho salmon escapement, Egegik River, 1995.

	Age Group			Total
	1.1	2.1	3.1	
Sample period: July 30 - August 30				
Males	1,332	2,548	193	4,073
Percent	17.83	34.11	2.58	54.52
Sample Size	69	132	10	211
Mean Length	513	557	545	542
Std. Error	7	4	15	4
Sample Size	69	132	10	211
Females	869	2,335	193	3,397
Percent	11.63	31.26	2.58	45.48
Sample Size	45	121	10	176
Mean Length	513	556	585	547
Std. Error	9	5	10	4
Sample Size	45	121	10	176
Both Sexes	2,201	4,883	386	7,470
Percent	29.46	65.37	5.17	100.00
Sample Size	114	253	20	387
Mean Length	513	557	565	544
Std. Error	6	3	9	3
Sample Size	114	253	20	387

Table 77. Age, sex, and size (length in mm and weight in kg) composition of coho salmon escapement, Nushagak River, 1995.

	Age Group			Total
	1.1	2.1	3.1	
Sample period: July 8 - August 25				
Males	2,087	24,631	1,670	28,388
Percent	4.50	53.15	3.60	61.26
Sample Size	10	118	8	136
Mean Length	510	524	515	523
Std. Error	17	5	29	5
Sample Size	10	118	8	136
Females		17,326	626	17,952
Percent		37.39	1.35	38.74
Sample Size		83	3	86
Mean Length		566	596	567
Std. Error		4	10	4
Sample Size		83	3	86
Both Sexes	2,087	41,957	2,296	46,340
Percent	4.50	90.54	4.95	100.00
Sample Size	10	201	11	222
Mean Length	510	542	537	540
Std. Error	17	3	22	3
Sample Size	10	201	11	222

Table 78. Age, sex and size (length in mm and weight in kg) composition of coho salmon escapement, Kulukak River, 1995.

	Age Group			Total ^a
	1.1	2.1	3.1	
Sample period: August 5 - September 14				
Males	1,612	5,576	67	7,255
Percent	11.94	41.29	0.50	53.73
Sample Size	24	83	1	108
Mean Length	536	567	550	560
Std. Error	11	5		5
Sample Size	24	83	1	108
Females	941	4,904	403	6,248
Percent	6.97	36.32	2.98	46.27
Sample Size	14	73	6	93
Mean Length	561	582	588	579
Std. Error	13	3	16	3
Sample Size	14	73	6	93
Both Sexes	2,553	10,480	470	13,503
Percent	18.91	77.61	3.48	100.00
Sample Size	38	156	7	201
Mean Length	546	574	582	569
Std. Error	8	3	16	3
Sample Size	38	156	7	201

^a Escapement enumeration is from USF&WS counting tower.

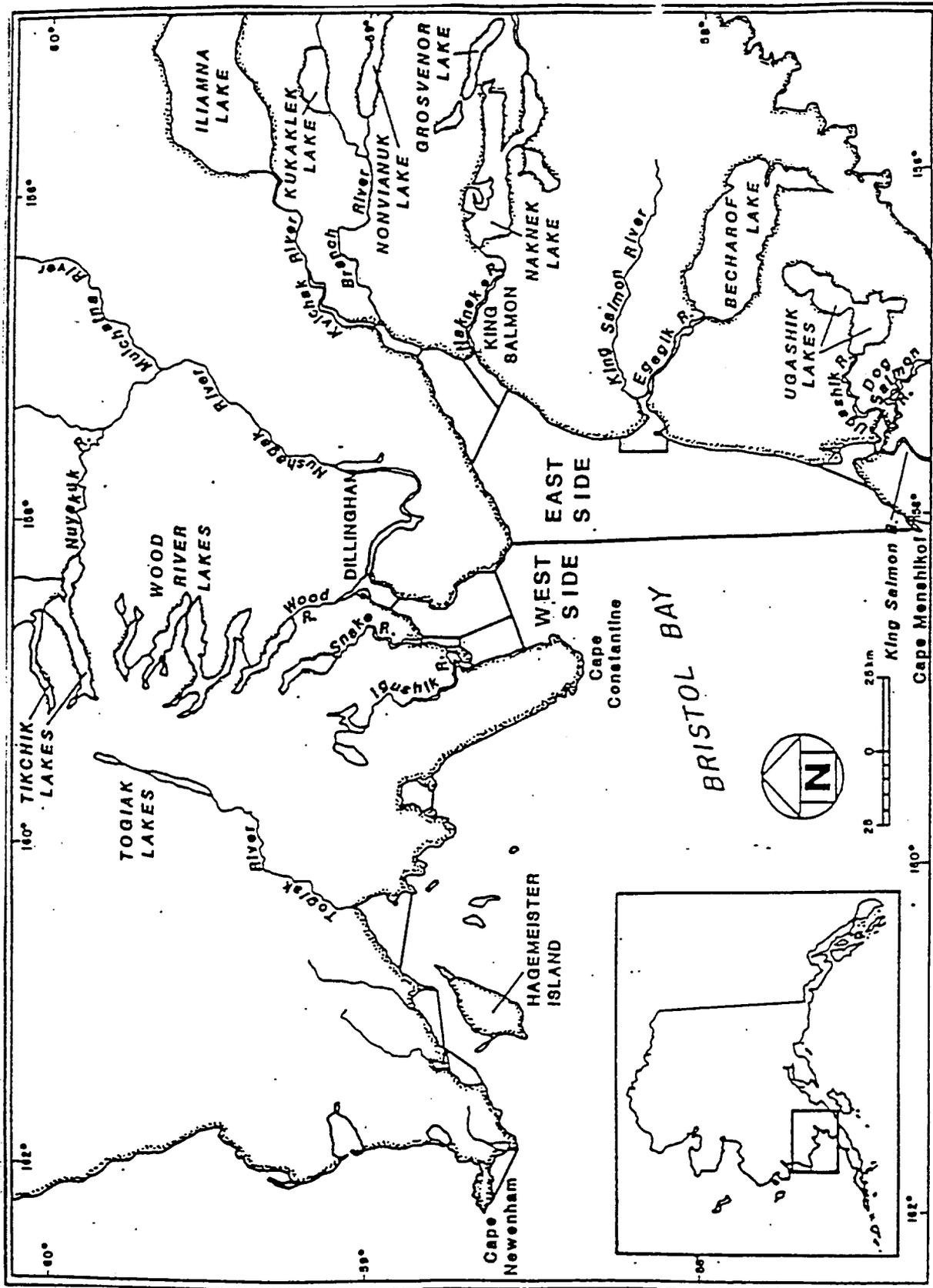


Figure 1. Bristol Bay major river systems and commercial fishing districts.

APPENDIX

Appendix A.1. Kvichak River sockeye salmon escapement and return by brood year including estimated interception catch (in thousands), 1950 - 1993.

Brood Year	Return by Age Group																Total
	Escapement	0.2	1.1	0.3	1.2	2.1	0.4	1.3	2.2	3.1	1.4	2.3	3.2	2.4	3.3	3.4	
1950	0 ^a	0 ^b	0 ^b	0 ^b	0 ^b	0 ^b	0 ^b	0 ^b	0 ^b	0 ^b	0	248	0	0	0	248 ^c	
1951	0 ^a	0 ^b	0 ^b	0 ^b	0 ^b	0 ^b	0	221	3,377	0	0	983	0	1	0	4,582 ^c	
1952	0 ^a	0 ^b	0 ^b	0	9,954	0	0	6,681	2,956	0	0	654	1	0	1	20,248 ^c	
1953	0 ^a	0	0	0	91	0	0	62	365	0	0	60	0	0	0	16 593	
1954	0 ^a	0	0	0	81	17	0	29	643	0	0	0	0	0	29	799	
1955	0 ^a	0	0	0	251	14	0	100	589	0	0	531	20	0	0	1,504	
1956	9,443	0	14	0	24,273	0	0	6,968	6,472	0	0	1,308	0	0	0	39,036	
1957	2,843	8	0	0	243	0	0	244	3,333	0	2	259	0	0	2	4,091	
1958	535	0	0	0	76	0	0	48	135	0	0	26	0	0	3	289	
1959	680	0	0	0	212	1	0	117	206	0	0	11	0	0	0	547	
1960	14,630	0	0	1	1,314	134	0	563	46,746	0	0	6,485	10	0	6	55,259	
1961	3,706	1	0	0	334	0	0	190	2,293	0	0	679	5	0	0	3,503	
1962	2,581	0	0	0	104	2	0	152	4,675	0	0	408	12	0	4	5,357	
1963	339	0	0	0	49	3	0	50	639	0	0	366	3	0	9	1,120	
1964	957	0	8	0	2,232	105	0	407	2,341	0	0	647	8	0	3	5,751	
1965	24,326	0	25	0	9,853	484	0	471	32,951	0	0	1,239	2	0	1	45,026	
1966	3,775	4	11	6	497	11	0	1,086	4,262	0	0	385	0	1	0	6,262	
1967	3,216	0	0	5	349	2	0	272	812	0	0	86	0	0	0	1,527	
1968	2,557	0	0	0	293	0	0	34	77	0	5	132	0	0	2	543	
1969	8,394	0	0	1	129	7	0	321	4,221	0	0	595	19	0	11	5,304	
1970	13,935	0	1	0	43	40	0	13	14,463	6	0	848	412	0	7	15,834	
1971	2,387	0	0	0	244	18	0	93	2,169	0	0	303	2	0	0	2,829	
1972	1,010	0	0	0	255	1	0	159	1,206	0	22	297	0	0	0	1,941	
1973	227	0	0	2	576	2	2	1,028	274	0	3	543	28	0	0	2,457	
1974	4,434	0	9	1	6,328	309	0	2,009	16,725	0	8	763	23	0	5	26,179	
1975	13,140	0	5	0	5,683	302	0	1,232	30,263	0	0	599	2	0	0	38,087	
1976	1,965	0	5	11	5,298	43	0	826	4,115	0	4	273	0	0	0	10,575	
1977	1,341	11	43	6	1,934	2	0	935	208	0	0	99	0	0	0	3,238	
1978	4,149	0	0	0	1,835	16	0	1,157	1,318	0	0	817	11	0	6	5,160	
1979	11,218	1	57	3	18,331	73	0	2,234	17,931	0	0	3,512	0	0	0	42,142	
1980	22,505	0	2	5	2,889	20	0	1,641	8,076	0	2	413	0	0	0	13,048	
1981	1,754	0	0	12	789	0	0	231	931	0	0	167	0	0	0	2,129	
1982	1,135	25	0	2	445	1	0	544	524	0	6	139	0	0	0	1,685	
1983	3,570	0	1	5	8,596	3	0	3,010	1,195	0	5	573	0	2	1	13,392	
1984	10,491	0	0	4	2,532	44	1	1,924	16,952	0	0	2,483	8	0	2	23,949	
1985	7,211	4	7	30	1,024	29	0	1,282	13,465	0	2	1,560	1	15	2	17,419	
1986	1,179	10	0	27	688	0	1	1,079	1,390	0	25	1,332	2	0	4	4,557	
1987	6,066	29	4	69	4,179	31	4	2,519	4,499	0	5	700	4	0	2	12,044	
1988	4,065	11	5	19	2,503	19	1	2,470	4,385	0	5	557	11	0	6	9,991 ^c	
1989	8,318	29	2	54	2,147	117	2	1,678	18,826	0	2	3,316	13	1 ^d	0 ^d	26,188 ^c	
1990	6,970	6	8	11	1,541	83	0	1,192	21,105	0	0	1,163 ^d	0 ^d	0 ^c	0 ^c	25,108 ^c	
1991	4,223	0	1	4	2,688	2	0 ^d	1,255 ^d	704 ^d	0 ^d	0 ^c	0 ^c	0 ^c	0 ^c	0 ^c	4,654 ^c	
1992	4,726	2	0	14 ^d	422 ^d	2 ^d	0 ^c	0 ^c	0 ^c	0 ^c	0 ^c	0 ^c	0 ^c	0 ^c	0 ^c	440 ^c	
1993	4,025	0 ^d	1 ^d	0 ^c	0 ^c	0 ^c	0 ^c	0 ^c	0 ^c	0 ^c	0 ^c	0 ^c	0 ^c	0 ^c	0 ^c	1 ^c	

^a Escapement not available.

^b Younger age groups not available.

^c Incomplete returns from brood year escapement.

^d Estimate from 1996 preliminary return numbers.

Appendix A.2. Branch River sockeye salmon escapement and return by brood year including estimated interception catch (in thousands), 1950 - 1993.

Brood Year	Escapement	Return by Age Group														Total	
		0.2	1.1	0.3	1.2	2.1	0.4	1.3	2.2	3.1	1.4	2.3	3.2	2.4	3.3		3.4
1950	0 ^a	0 ^b	0 ^b	0 ^b	0 ^b	0 ^b	0 ^b	0 ^b	0 ^b	0 ^b	0	262	0	0	0	0	262 ^c
1951	0 ^a	0 ^b	0 ^b	0 ^b	0 ^b	0 ^b	0	294	343	0	0	43	0	0	0	0	681 ^c
1952	0 ^a	0 ^b	0 ^b	0	383	0	0	295	131	0	0	115	0	0	1	0	925 ^c
1953	0 ^a	0	0	0	5	0	0	11	64	0	0	0	0	0	0	0	80
1954	0 ^a	0	0	0	14	3	0	109	392	0	0	141	0	0	1	0	660
1955	0 ^a	0	0	0	788	0	0	237	26	0	0	44	0	0	0	0	1095
1956	784	5	0	0	1885	0	0	459	0	0	0	38	3	0	0	0	2390
1957	127	0	0	0	5	0	0	23	43	0	0	13	0	0	1	0	85
1958	95	0	0	0	43	0	0	26	27	0	0	52	0	0	0	0	147
1959	825	0	0	0	302	0	0	265	122	0	0	76	1	0	2	0	768
1960	1241	0	0	0	105	0	0	185	135	0	0	31	0	0	0	0	456
1961	90	0	10	1	89	1	0	185	7	0	0	0	0	0	0	0	292
1962	91	0	19	0	129	0	0	91	3	0	0	19	1	0	0	0	262
1963	203	0	0	0	199	1	0	140	34	0	0	1	0	0	0	0	376
1964	249	0	5	0	100	2	0	98	113	0	0	17	0	0	0	0	336
1965	175	0	6	0	104	1	0	161	10	0	0	17	0	0	0	0	299
1966	174	0	13	0	282	0	0	262	12	0	0	11	0	0	0	0	581
1967	203	0	9	8	291	1	0	51	46	0	0	7	0	0	0	0	413
1968	194	3	5	0	127	0	0	40	2	0	0	3	0	0	0	0	180
1969	182	0	0	0	4	1	0	54	105	0	0	25	0	0	0	0	190
1970	177	0	0	0	73	0	0	71	6	0	0	2	0	0	0	0	152
1971	187	0	2	0	26	0	0	28	31	0	0	37	0	0	2	0	126
1972	151	0	1	0	91	0	0	17	7	0	0	14	0	0	0	0	130
1973	35	0	0	0	97	1	0	130	18	0	0	2	0	0	0	0	248
1974	215	0	4	0	292	5	0	18	128	0	0	8	0	0	0	0	456
1975	100	0	15	0	415	0	0	340	3	0	1	1	0	0	0	0	775
1976	82	0	26	0	211	0	0	168	20	0	0	55	0	0	0	0	481
1977	100	0	27	0	141	1	0	700	0	0	4	9	0	0	0	0	881
1978	229	0	1	0	102	0	0	68	39	0	0	147	0	0	0	0	358
1979	294	0	3	2	459	2	0	297	32	0	0	3	0	0	0	0	799
1980	298	0	0	0	103	0	0	211	13	0	2	9	0	1	0	0	339
1981	82	0	0	0	55	0	0	171	53	0	2	11	0	0	0	0	291
1982	239	0	0	0	172	0	0	142	4	0	0	3	0	0	0	0	322
1983	96	0	0	0	148	0	0	131	33	0	0	3	0	0	0	0	316
1984	215	0	1	0	159	0	0	146	42	0	0	23	0	0	0	0	372
1985	118	0	3	0	357	0	0	113	92	0	0	8	0	0	0	0	574
1986	230	0	1	0	344	0	0	267	193	0	0	8	0	0	0	0	813
1987	154	0	0	0	158	0	0	170	172	0	3	80	0	0	0	0	583
1988	195	0	1	0	154	0	0	148	279	0	0	43	0	0	0	0 ^d	625 ^c
1989	197	0	5	0	354	2	0	172	178	0	0	16	0	0 ^d	0 ^d	0 ^c	727 ^c
1990	169	0	2	0	262	0	0	124	330	0	0 ^d	237 ^d	0 ^d	0 ^c	0 ^c	0 ^c	955 ^c
1991	278	0	0	0	200	4	0 ^d	224 ^d	166 ^d	0 ^d	0 ^c	0 ^c	0 ^c	0 ^c	0 ^c	0 ^c	594 ^c
1992	225	0	2	0 ^d	97 ^d	0 ^d	0 ^c	0 ^c	0 ^c	0 ^c	0 ^c	0 ^c	0 ^c	0 ^c	0 ^c	0 ^c	98 ^c
1993	348	0 ^d	4 ^d	0 ^c	0 ^c	0 ^c	0 ^c	0 ^c	0 ^c	0 ^c	0 ^c	0 ^c	0 ^c	0 ^c	0 ^c	0 ^c	4 ^c

^a Escapement not available.

^b Younger age groups not available.

^c Incomplete returns from brood year escapement.

^d Estimate from 1996 preliminary return numbers.

Appendix A.3. Naknek River sockeye salmon escapement and return by brood year including estimated interception catch (in thousands), 1950 - 1992.

Brood Year	Escapement	Return by Age Group																Total
		0.2	1.1	0.3	1.2	2.1	0.4	1.3	2.2	3.1	1.4	2.3	3.2	2.4	3.3	3.4		
1950	0 ^a	0 ^b	0 ^b	0 ^b	0 ^b	0 ^b	0 ^b	0 ^b	0 ^b	0 ^b	0	1,093	0	2	5	0	1,100 ^c	
1951	0 ^a	0 ^b	0 ^b	0 ^b	0 ^b	0 ^b	0	1,295	688	0	0	1,250	0	1	0	0	3,234 ^c	
1952	0 ^a	0 ^b	0 ^b	0	79	0	0	1,199	108	0	7	176	1	0	2	0	1,571 ^c	
1953	0 ^a	0	0	0	24	0	0	135	177	3	0	206	42	0	1	1	589	
1954	0 ^a	0	0	0	85	19	0	302	2,129	0	0	587	0	13	3	0	3,137	
1955	0 ^a	0	0	0	720	1	0	820	214	0	0	88	2	4	2	0	1,851	
1956	1,773	0	1	0	473	0	0	1,701	3	0	17	304	0	0	0	0	2,501	
1957	635	0	0	0	53	2	0	329	505	0	1	674	5	0	3	0	1,571	
1958	278	0	0	0	112	4	0	211	539	0	0	168	3	0	2	0	1,040	
1959	2,232	0	0	0	349	7	0	351	742	0	0	705	0	0	0	0	2,155	
1960	828	0	1	1	1,408	9	0	625	696	0	0	1,278	1	1	2	0	4,023	
1961	351	0	0	0	239	3	0	744	315	0	3	640	0	0	8	0	1,953	
1962	723	0	0	0	76	4	0	230	351	0	2	397	13	0	1	0	1,074	
1963	905	0	0	0	136	8	0	390	833	0	0	627	7	0	1	0	2,003	
1964	1,350	0	1	0	447	24	0	264	1,135	0	0	177	11	0	1	0	2,061	
1965	718	0	5	0	540	44	0	360	732	0	0	437	1	0	1	0	2,121	
1966	1,016	1	4	0	728	2	0	2,304	167	0	1	630	0	1	0	0	3,837	
1967	756	0	0	2	326	6	0	625	401	0	0	356	0	1	0	0	1,716	
1968	1,023	0	3	0	152	0	0	234	83	0	0	269	2	0	2	0	745	
1969	1,331	0	0	0	47	3	0	307	976	0	0	1,211	5	0	3	0	2,552	
1970	733	0	1	0	154	19	0	318	1,845	0	0	370	12	0	0	0	2,718	
1971	936	0	1	0	397	24	0	559	1,428	0	0	1,844	3	9	8	0	4,274	
1972	587	0	3	0	245	3	0	241	161	0	3	599	9	0	1	0	1,264	
1973	357	0	0	0	494	0	0	618	524	0	0	598	0	0	0	0	2,235	
1974	1,241	0	2	0	232	3	0	228	1,026	0	1	783	5	0	5	0	2,285	
1975	2,027	0	1	0	425	11	0	1,746	1,393	0	0	1,641	1	8	0	0	5,226	
1976	1,321	0	4	0	1,084	3	0	4,048	1,575	0	21	1,491	0	28	1	0	8,256	
1977	1,086	2	10	7	635	0	0	2,272	95	0	64	401	0	1	5	0	3,493	
1978	813	0	1	0	331	4	0	1,695	1,121	0	11	530	2	0	0	0	3,694	
1979	925	0	4	1	2,438	4	0	973	792	0	9	408	4	0	3	0	4,637	
1980	2,645	0	1	1	723	14	0	1,505	1,192	0	9	828	0	2	0	0	4,274	
1981	1,796	0	4	0	782	9	0	2,568	473	0	12	937	0	3	0	0	4,788	
1982	1,156	0	3	3	185	0	0	1,172	191	0	23	457	0	9	0	0	2,043	
1983	888	0	0	1	163	7	0	484	336	0	5	480	0	0	1	0	1,477	
1984	1,242	0	1	0	469	23	0	911	1,214	0	21	1,828	5	1	4	0	4,477	
1985	1,850	0	2	6	656	20	1	3,533	1,293	0	44	1,441	0	28	10	0	7,033	
1986	1,978	0	3	6	1,981	6	1	7,167	1,276	0	367	2,817	1	38	2	0	13,666	
1987	1,062	3	0	12	336	4	1	1,251	565	0	95	3,225	2	12	0	0	5,505	
1988	1,038	0	0	0	273	13	0	796	516	0	37	544	2	2	1	0 ^d	2,183 ^c	
1989	1,162	0	1	0	226	5	0	930	1,154	0	0	566	4	1 ^d	2 ^d	0 ^c	2,890 ^c	
1990	2,093	0	0	0	405	46	0	1,236	1,345	0	0	1,287 ^d	1 ^d	0 ^c	0 ^c	0 ^c	4,334 ^c	
1991	3,579	1	13	0	546	1	0 ^d	5,186 ^d	248 ^d	0 ^d	0 ^c	0 ^c	0 ^c	0 ^c	0 ^c	0 ^c	5,993 ^c	
1992	1,607	0	0	16 ^d	262 ^d	1 ^d	0 ^c	0 ^c	0 ^c	0 ^c	0 ^c	0 ^c	0 ^c	0 ^c	0 ^c	0 ^c	279 ^c	

^a Escapement not available.

^b Younger age groups not available.

^c Incomplete returns from brood year escapement.

^d Estimate from 1996 preliminary return numbers.

Appendix A.4. Egegik River sockeye salmon escapement and return by brood year including estimated interception catch (in thousands), 1949 - 1993.

Return by Age Group

Brood Year	Escapement	0.2	1.1	0.3	1.2	2.1	0.4	1.3	2.2	3.1	1.4	2.3	3.2	2.4	3.3	3.4	Total
1949	0 ^a	0 ^b	0 ^b	0 ^b	0 ^b	0 ^b	0 ^b	0 ^b	0 ^b	0 ^b	0	0	0	0	14	0	14 ^c
1950	0 ^a	0 ^b	0 ^b	0 ^b	0 ^b	0 ^b	0	0	0	0	0	274	70	4	23	0	371 ^c
1951	0 ^a	0 ^b	0 ^b	0	0	0	0	325	1,018	0	1	1,301	2	0	6	0	2,654 ^c
1952	0 ^a	0	0	0	623	0	0	446	241	0	1	295	19	2	5	0	1,633
1953	0 ^a	0	0	0	26	0	0	39	435	2	0	337	254	0	12	0	1,104
1954	0 ^a	0	0	0	11	4	0	13	1,190	0	0	641	87	0	46	0	1,990
1955	0 ^a	0	1	0	20	0	0	163	672	0	0	396	6	1	6	0	1,265
1956	1,104	0	6	0	2,025	0	0	3,190	925	0	2	685	1	0	12	0	6,846
1957	391	0	0	0	37	0	0	43	1,096	0	0	927	70	0	62	0	2,236
1958	246	0	0	0	42	2	0	73	817	0	0	308	16	0	3	0	1,263
1959	1,072	0	0	0	73	2	0	164	1,037	0	0	467	14	0	24	0	1,783
1960	1,799	8	0	0	447	21	0	328	4,447	0	1	2,560	49	0	50	0	7,912
1961	702	0	0	3	82	0	0	229	446	0	1	791	28	0	10	0	1,591
1962	1,027	0	0	0	22	0	0	69	950	0	0	375	28	0	30	0	1,475
1963	998	0	0	1	16	2	0	112	538	1	1	506	74	0	7	0	1,258
1964	850	0	1	0	126	6	0	69	1,454	1	0	242	73	0	12	0	1,983
1965	1,445	0	0	0	104	35	0	72	2,016	0	4	845	6	2	20	0	3,103
1966	804	0	0	1	249	0	0	752	600	0	2	890	7	0	10	0	2,511
1967	637	0	0	2	60	2	0	257	665	0	0	622	1	1	2	0	1,613
1968	339	0	0	0	41	0	0	56	87	0	0	258	3	5	9	0	458
1969	1,016	0	0	0	12	1	0	111	1,096	0	0	1,141	279	2	113	0	2,756
1970	920	0	0	0	59	0	0	89	796	0	1	175	95	0	25	0	1,240
1971	634	0	0	0	45	2	0	109	1,477	0	0	970	74	1	55	0	2,732
1972	546	0	0	1	57	2	0	61	1,508	0	0	1,264	48	0	18	0	2,959
1973	329	0	0	0	76	0	0	135	578	0	0	851	35	0	4	0	1,679
1974	1,276	0	0	0	131	18	0	99	2,224	0	0	496	54	0	3	0	3,025
1975	1,174	0	0	0	148	9	0	241	2,449	2	0	797	14	2	1	0	3,663
1976	509	1	1	2	612	59	0	789	3,003	0	4	846	0	0	0	0	5,317
1977	693	0	2	0	823	1	0	1,969	688	0	14	655	52	0	13	0	4,217
1978	896	0	0	2	398	6	0	510	6,071	0	0	2,184	25	4	8	0	9,208
1979	1,032	0	3	0	712	9	3	520	3,036	0	4	1,659	0	0	0	0	5,947
1980	1,061	0	1	13	803	26	0	2,225	4,576	0	6	917	7	0	0	0	8,576
1981	695	0	0	6	544	64	0	953	3,284	0	11	1,438	9	0	7	0	6,317
1982	1,035	2	2	4	988	12	0	1,874	1,796	0	9	1,638	11	2	2	0	6,340
1983	792	0	3	0	1,748	7	1	2,763	3,235	0	7	2,822	21	23	16	0	10,646
1984	1,165	0	1	8	608	85	0	978	6,539	3	10	5,029	215	13	39	0	13,527
1985	1,095	4	0	9	567	32	0	1,404	4,358	0	9	1,262	8	0	18	0	7,672
1986	1,152	0	2	14	1,850	10	0	3,733	3,912	0	92	4,515	86	83	34	0	14,331
1987	1,274	2	0	9	886	66	0	4,561	8,863	3	101	11,239	133	31	57	0	25,952
1988	1,613	0	1	0	413	62	0	1,278	11,061	0	4	5,650	261	3	152	0 ^d	18,885 ^c
1989	1,612	1	0	6	513	34	0	456	6,063	1	6	3,979	170	1 ^d	27 ^d	0 ^c	11,257 ^c
1990	2,192	0	0	2	403	66	0	867	9,598	1	3 ^d	4,722 ^d	20 ^d	0 ^c	0 ^c	0 ^c	15,682 ^c
1991	2,787	4	1	3	1,397	20	2 ^d	3,946 ^d	3,135 ^d	0 ^d	0 ^c	0 ^c	0 ^c	0 ^c	0 ^c	0 ^c	8,509 ^c
1992	1,946	5	0	31 ^d	337 ^d	55 ^d	0 ^c	0 ^c	0 ^c	0 ^c	0 ^c	0 ^c	0 ^c	0 ^c	0 ^c	0 ^c	429 ^c
1993	1,517	0 ^d	2 ^d	0 ^c	0 ^c	0 ^c	0 ^c	0 ^c	0 ^c	0 ^c	0 ^c	0 ^c	0 ^c	0 ^c	0 ^c	0 ^c	2 ^c

^a Escapement not available.

^b Younger age groups not available.

^c Incomplete returns from brood year escapement.

^d Estimate from 1996 preliminary return numbers.

Appendix A.5. Ugashik River sockeye salmon escapement and return by brood year including estimated interception catch (in thousands), 1949 - 1993.

Brood Year	Return by Age Group																Total
	Escapement	0.2	1.1	0.3	1.2	2.1	0.4	1.3	2.2	3.1	1.4	2.3	3.2	2.4	3.3	3.4	
1949	0 ^a	0 ^b	0 ^b	0 ^b	0 ^b	0 ^b	0 ^b	0 ^b	0 ^b	0 ^b	0	0	0	0	2	0	2 ^c
1950	0 ^a	0 ^b	0 ^b	0 ^b	0 ^b	0 ^b	0	0	0	0	1	45	0	0	3	0	49 ^c
1951	0 ^a	0 ^b	0 ^b	0	0	0	1	47	174	0	2	118	1	0	0	0	342 ^c
1952	0 ^a	0	0	1	508	0	0	391	209	0	0	78	2	0	0	0	1,189
1953	0 ^a	0	0	0	216	0	0	249	420	0	0	216	7	0	0	0	1,108
1954	0 ^a	0	0	0	24	3	0	28	395	0	0	61	0	0	0	0	511
1955	0 ^a	0	0	1	17	1	0	33	118	0	0	7	0	0	0	0	177
1956	425	1	12	0	3,165	0	0	837	80	0	2	35	0	0	0	0	4,132
1957	215	0	0	1	35	0	0	105	354	0	2	100	4	0	2	0	603
1958	280	0	0	0	63	0	0	105	444	0	0	66	0	0	0	0	679
1959	219	0	0	0	18	0	0	38	310	0	0	132	0	0	1	0	498
1960	2,304	0	0	0	674	11	0	296	1,563	0	0	487	0	0	0	0	3,032
1961	349	0	0	3	240	2	0	500	247	0	1	120	0	0	0	0	1,113
1962	255	0	0	2	77	2	0	130	185	0	0	27	0	0	0	0	424
1963	388	0	0	0	13	0	0	21	91	0	0	23	0	0	0	0	148
1964	473	0	0	0	31	9	0	16	245	0	0	18	0	0	2	0	324
1965	997	0	0	0	86	2	0	38	249	0	1	162	1	0	0	0	538
1966	704	1	0	2	723	0	0	1,478	90	0	0	21	0	0	0	0	2,315
1967	239	0	0	0	56	0	0	50	44	0	0	34	0	0	0	0	184
1968	71	0	0	0	14	0	0	7	15	0	0	3	0	0	0	0	40
1969	160	0	0	0	4	0	0	5	53	0	0	26	2	0	2	0	92
1970	735	0	0	0	4	1	0	2	256	0	1	28	2	0	1	0	295
1971	530	0	0	0	178	0	0	236	290	0	0	130	0	0	1	0	835
1972	79	0	0	0	35	0	0	58	119	0	0	41	2	0	3	0	258
1973	39	0	0	1	16	0	0	8	17	0	0	46	4	0	0	0	92
1974	62	0	0	0	13	10	0	15	602	0	0	83	2	0	0	0	724
1975	429	0	3	0	1,484	4	0	575	1,721	0	0	325	2	1	0	0	4,116
1976	356	0	0	2	2,027	58	0	1,527	1,248	0	7	437	0	0	3	0	5,309
1977	202	0	2	18	585	0	0	1,614	266	0	10	186	6	1	4	0	2,693
1978	82	0	0	5	247	7	0	413	863	0	6	523	1	0	0	0	2,064
1979	1,707	0	20	0	3,076	8	0	851	1,471	0	14	562	0	5	0	0	6,006
1980	3,335	0	1	13	1,183	39	0	2,309	3,371	0	10	850	3	2	0	0	7,782
1981	1,328	0	2	10	1,603	4	0	2,632	2,278	0	4	933	1	1	0	0	7,468
1982	1,186	0	1	15	423	1	1	713	606	0	9	737	0	2	0	0	2,508
1983	1,001	0	0	10	650	6	1	342	632	0	3	319	1	1	0	0	1,965
1984	1,270	0	0	5	472	55	0	568	3,635	0	13	709	3	0	4	0	5,464
1985	1,006	2	1	6	508	2	0	721	978	0	4	469	0	5	0	0	2,696
1986	1,016	5	1	46	503	1	0	2,427	1,874	0	71	1,750	4	15	0	0	6,697
1987	687	7	1	9	828	11	0	1,626	1,875	0	25	2,310	10	20	24	0	6,744
1988	654	1	2	1	463	27	0	692	2,144	0	37	2,252	22	3	7	0 ^d	5,651 ^c
1989	1,713	3	7	7	694	14	0	391	2,479	0	12	955	6	1 ^d	3 ^d	0 ^c	4,572 ^c
1990	749	0	1	13	345	15	2	709	2,302	0	2 ^d	1,213 ^d	2 ^d	0 ^c	0 ^c	0 ^c	4,603 ^c
1991	2,482	1	6	0	2,034	1	0 ^d	3,165 ^d	599 ^d	0 ^d	0 ^c	0 ^c	0 ^c	0 ^c	0 ^c	0 ^c	5,808 ^c
1992	2,195	6	3	49 ^d	191 ^d	4 ^d	0 ^c	0 ^c	0 ^c	0 ^c	0 ^c	0 ^c	0 ^c	0 ^c	0 ^c	0 ^c	253 ^c
1993	1,413	1 ^d	2 ^d	0 ^c	0 ^c	0 ^c	0 ^c	0 ^c	0 ^c	0 ^c	0 ^c	0 ^c	0 ^c	0 ^c	0 ^c	0 ^c	3 ^c

^a Escapement not available.

^b Younger age groups not available.

^c Incomplete returns from brood year escapement.

^d Estimate from 1996 preliminary return numbers.

Appendix A.6. Wood River sockeye salmon escapement and return by brood year including estimated interception catch (in thousands), 1950 - 1993.

Brood Year	Escapement	Return by Age Group														Total	
		0.2	1.1	0.3	1.2	2.1	0.4	1.3	2.2	3.1	1.4	2.3	3.2	2.4	3.3		3.4
1950	0 ^a	0 ^b	0 ^b	0 ^b	0 ^b	0 ^b	0 ^b	0 ^b	0 ^b	0 ^b	1	57	0	0	0	0	58 ^c
1951	0 ^a	0 ^b	0 ^b	0 ^b	0 ^b	0 ^b	0	456	290	0	3	54	0	0	1	0	803 ^c
1952	0 ^a	0 ^b	0 ^b	0	690	0	0	558	29	0	2	34	0	0	0	0	1,314 ^c
1953	0 ^a	0	0	0	301	0	0	331	139	0	2	34	0	0	1	0	809
1954	0 ^a	0	0	0	1,237	0	0	140	1,085	0	1	66	0	0	0	0	2,529
1955	0 ^a	0	0	0	2,407	0	0	833	401	0	5	143	0	0	0	0	3,789
1956	773	0	0	48	774	0	0	627	24	0	0	0	0	0	0	0	1,472
1957	289	0	0	21	136	0	0	257	35	0	0	0	0	0	0	0	449
1958	960	0	1	0	2,145	1	0	389	75	0	0	32	0	0	0	0	2,643
1959	2,209	0	0	1	979	10	0	398	359	0	1	55	0	0	2	0	1,805
1960	1,016	0	6	0	1,474	0	0	1,039	106	0	2	105	1	0	0	0	2,732
1961	461	0	0	10	255	0	0	1,183	24	0	2	20	0	1	1	0	1,495
1962	874	1	2	0	992	1	2	340	116	0	6	43	0	0	0	0	1,503
1963	721	0	0	0	536	1	0	769	76	0	0	46	0	0	0	0	1,427
1964	1,076	0	1	6	452	0	0	347	338	0	0	74	0	0	2	0	1,219
1965	675	2	1	8	472	1	0	999	90	0	0	213	0	0	1	0	1,787
1966	1,209	0	7	29	974	0	0	988	46	0	7	69	0	0	1	0	2,122
1967	516	0	3	21	642	0	0	269	75	0	2	80	0	0	0	0	1,090
1968	649	0	1	0	514	0	0	565	5	0	4	19	0	0	0	0	1,108
1969	604	0	0	4	57	0	0	445	201	0	10	116	0	0	0	0	834
1970	1,162	0	2	0	1,539	0	0	1,002	231	0	0	26	0	0	0	0	2,799
1971	851	3	0	18	456	0	0	576	198	0	1	49	0	0	0	0	1,301
1972	431	2	1	22	779	0	0	631	32	0	20	27	0	0	0	0	1,514
1973	330	1	1	0	213	0	0	1,148	74	0	3	44	0	0	0	0	1,484
1974	1,709	0	3	6	2,956	4	0	1,698	421	0	5	71	0	0	0	0	5,164
1975	1,270	13	47	12	1,592	2	0	1,977	406	0	2	734	0	0	0	0	4,784
1976	817	0	3	0	2,278	3	0	2,589	572	0	10	265	0	0	0	0	5,721
1977	562	0	20	0	1,029	0	0	2,173	40	0	0	26	2	0	0	0	3,289
1978	2,267	0	0	0	1,364	3	0	1,029	784	0	12	96	0	0	0	0	3,288
1979	1,706	0	10	0	2,643	0	0	1,491	24	0	1	13	0	0	0	0	4,182
1980	2,969	0	0	0	453	0	0	978	72	0	1	101	0	0	0	0	1,606
1981	1,233	0	0	0	626	0	0	1,137	60	0	0	86	0	0	0	0	1,909
1982	976	0	4	0	522	0	0	765	121	0	12	14	0	0	0	0	1,438
1983	1,361	0	1	5	1,940	0	2	1,154	15	0	2	75	0	0	0	0	3,194
1984	1,003	0	0	0	586	0	2	1,340	32	0	15	23	0	0	0	0	1,998
1985	939	8	3	15	1,127	0	1	1,390	29	0	2	12	0	1	0	0	2,587
1986	819	7	2	25	1,179	0	1	1,970	70	0	12	64	0	0	0	0	3,330
1987	1,337	25	0	30	1,334	0	14	756	98	0	8	92	0	1	0	0	2,360
1988	867	4	1	8	1,613	0	3	1,425	90	0	15	34	0	0	0	0 ^c	3,193 ^c
1989	1,186	1	4	16	2,293	0	0	1,922	13	0	2	39	0	0 ^d	0 ^d	0 ^c	4,288 ^c
1990	1,069	10	1	10	1,104	1	3	1,208	286	0	2 ^d	168 ^d	0 ^d	0 ^c	0 ^c	0 ^c	2,792 ^c
1991	1,160	0	12	9	2,633	0	0 ^d	2,475 ^d	55 ^d	0 ^d	0 ^c	0 ^c	0 ^c	0 ^c	0 ^c	0 ^c	5,184 ^c
1992	1,286	10	1	57 ^d	2,411 ^d	0 ^d	0 ^c	0 ^c	0 ^c	0 ^c	0 ^c	0 ^c	0 ^c	0 ^c	0 ^c	0 ^c	2,479 ^c
1993	1,176	14 ^d	0 ^d	0 ^c	0 ^c	0 ^c	0 ^c	0 ^c	0 ^c	0 ^c	0 ^c	0 ^c	0 ^c	0 ^c	0 ^c	0 ^c	14 ^c

^a Escapement not available.

^b Younger age groups not available.

^c Incomplete returns from brood year escapement.

^d Estimate from 1996 preliminary return numbers.

Appendix A.7. Igushik River sockeye salmon escapement and return by brood year including estimated interception catch (in thousands), 1950 - 1992.

Brood Year	Escapement	Return by Age Group															Total
		0.2	1.1	0.3	1.2	2.1	0.4	1.3	2.2	3.1	1.4	2.3	3.2	2.4	3.3	3.4	
1950	0 ^a	0 ^b	0 ^b	0 ^b	0 ^b	0 ^b	0 ^b	0 ^b	0 ^b	0 ^b	1	78	0	0	0	0	78 ^c
1951	0 ^a	0 ^b	0 ^b	0 ^b	0 ^b	0 ^b	0	615	62	0	1	29	0	0	2	0	709 ^c
1952	0 ^a	0 ^b	0 ^b	0	147	0	0	303	9	0	5	73	0	0	0	0	538 ^c
1953	0 ^a	0	0	0	98	0	0	1	20	0	3	65	0	0	1	0	187
1954	0 ^a	0	0	0	175	0	0	269	204	0	0	113	0	1	0	0	763
1955	0 ^a	0	0	0	454	0	0	781	113	0	0	94	0	0	0	0	1,443
1956	400	0	0	0	169	0	0	523	12	0	3	36	0	0	0	0	743
1957	130	0	0	0	2	0	0	35	19	0	0	20	0	0	0	0	76
1958	107	0	0	0	14	0	0	71	20	0	0	28	0	0	0	0	133
1959	644	0	0	0	101	0	0	155	93	0	0	22	0	0	0	0	372
1960	495	0	0	1	61	0	0	310	44	0	0	57	0	0	0	0	474
1961	294	0	0	1	33	0	1	364	20	0	0	17	0	0	0	0	437
1962	16	0	0	8	20	0	0	280	9	0	0	9	0	0	0	0	327
1963	92	0	0	3	254	0	0	190	36	0	0	25	0	0	0	0	508
1964	129	0	0	1	162	0	0	585	133	0	0	49	0	0	0	0	930
1965	181	0	0	0	371	0	0	436	203	0	0	80	0	0	0	0	1,089
1966	206	0	0	0	66	0	0	383	6	0	0	15	0	0	0	0	470
1967	282	0	0	3	57	0	0	90	13	0	0	12	0	0	0	0	175
1968	195	0	0	0	43	0	0	120	0	0	2	10	0	0	0	0	176
1969	512	0	0	0	1	0	0	131	301	0	2	103	0	0	0	0	536
1970	371	0	0	1	26	0	0	170	41	0	0	71	0	0	0	0	309
1971	211	0	0	1	48	0	0	164	60	0	0	30	0	0	0	0	303
1972	60	0	0	4	89	0	0	109	6	0	8	13	0	0	0	0	229
1973	60	0	0	0	19	0	0	650	25	0	2	29	0	0	0	0	725
1974	359	0	0	7	441	1	0	750	346	0	4	25	0	0	0	0	1,574
1975	241	0	0	0	783	0	0	2,556	137	0	2	503	0	0	0	0	3,981
1976	186	0	0	0	551	3	0	1,411	194	0	20	215	0	0	0	0	2,394
1977	96	0	0	6	294	0	0	1,689	9	0	8	9	0	0	0	0	2,015
1978	536	0	0	0	96	0	0	330	84	0	1	15	0	0	0	0	527
1979	860	0	0	0	422	0	0	406	13	0	0	5	0	0	0	0	847
1980	1,988	0	0	0	20	0	0	271	25	0	0	56	0	0	0	0	373
1981	591	0	0	0	188	0	0	779	8	0	1	49	0	0	0	0	1,025
1982	424	0	0	7	57	0	0	434	9	0	2	10	0	0	0	0	518
1983	180	1	0	0	151	0	0	353	8	0	2	29	0	0	0	0	544
1984	185	0	0	0	41	0	0	641	56	0	5	36	0	1	0	0	781
1985	212	0	0	7	515	0	0	938	86	0	7	79	0	1	0	0	1,633
1986	308	3	0	14	236	0	1	2,231	27	0	15	30	0	0	0	0	2,557
1987	169	2	0	11	158	0	0	587	7	0	12	29	0	0	0	0	804
1988	170	0	0	1	189	0	1	1,056	41	0	3	36	0	0	0	0 ^d	1,327 ^c
1989	462	0	0	15	508	0	0	1,119	59	0	7	53	0	0 ^d	0 ^d	0 ^c	1,760 ^c
1990	366	1	0	3	159	0	0	1,429	183	0	4 ^d	149 ^d	0 ^d	0 ^c	0 ^c	0 ^c	1,927 ^c
1991	756	0	0	1	318	0	0	1,332 ^d	3 ^d	0 ^d	0 ^c	0 ^c	0 ^c	0 ^c	0 ^c	0 ^c	1,654 ^c
1992	305	0	0	3 ^d	44 ^d	0 ^d	0 ^c	0 ^c	0 ^c	0 ^c	0 ^c	0 ^c	0 ^c	0 ^c	0 ^c	0 ^c	47 ^c

^a Escapement not available.

^b Younger age groups not available.

^c Incomplete returns from brood year escapement.

^d Estimate from 1996 preliminary return numbers.

Appendix A.8. Nushagak River sockeye salmon escapement and return by brood year including estimated interception catch (in thousands), 1983 - 1993.

Brood Year	Return by Age Group																
	Escapement	0.2	1.1	0.3	1.2	2.1	0.4	1.3	2.2	3.1	1.4	2.3	3.2	2.4	3.3	3.4	Total
1983	0 ^a	0 ^b	0 ^b	0 ^b	0 ^b	0 ^b	0 ^b	0 ^b	0 ^b	0 ^b	16	3	0	0	0	0	19 ^c
1984	0 ^a	0 ^b	0 ^b	0 ^b	0 ^b	0 ^b	32	566	2	0	20	6	0	0	0	0	625 ^c
1985	0 ^a	0 ^b	0 ^b	510	64	0	62	612	6	0	13	16	0	1	0	0	1,283 ^c
1986	0 ^a	68	0	837	114	0	58	676	0	0	182	64	0	0	0	0	1,999
1987	0 ^a	140	0	933	36	0	253	535	36	0	101	10	0	1	0	0	2,047
1988	0 ^a	68	0	546	214	0	120	1,426	12	0	62	8	0	0	0	0 ^d	2,457 ^c
1989	513	68	0	483	124	0	35	703	1	0	18	4	0	0 ^d	0 ^d	0 ^c	1,436 ^c
1990	680	53	0	761	36	0	104	253	18	0	11 ^d	7 ^d	0 ^d	0 ^c	0 ^c	0 ^c	1,243 ^c
1991	493	10	1	137	172	0	7 ^d	1,014 ^d	3 ^d	0 ^d	0 ^c	0 ^c	0 ^c	0 ^c	0 ^c	0 ^c	1,345 ^c
1992	695	85	0	498 ^d	228 ^d	0 ^d	0 ^c	0 ^c	0 ^c	0 ^c	0 ^c	0 ^c	0 ^c	0 ^c	0 ^c	0 ^c	811 ^c
1993	715	45 ^d	0 ^d	0 ^c	0 ^c	0 ^c	0 ^c	0 ^c	0 ^c	0 ^c	0 ^c	0 ^c	0 ^c	0 ^c	0 ^c	0 ^c	45 ^c

^a Escapement not available.

^b Younger age groups not available.

^c Incomplete returns from brood year escapement.

^d Estimate from 1996 preliminary return numbers.

Appendix A.9. Togiak River sockeye salmon escapement and return by brood year including estimated interception catch (in thousands), 1950 - 1993.

Brood Year	Return by Age Group																Total
	Escapement	0.2	1.1	0.3	1.2	2.1	0.4	1.3	2.2	3.1	1.4	2.3	3.2	2.4	3.3	3.4	
1950	0 ^a	0 ^b	0 ^b	0 ^b	0 ^b	0 ^b	0 ^b	0 ^b	0 ^b	0 ^b	0	28	0	0	0	0	28 ^c
1951	0 ^a	0 ^b	0 ^b	0 ^b	0 ^b	0 ^b	0	98	53	0	0	9	0	0	0	0	160 ^c
1952	0 ^a	0 ^b	0 ^b	0	152	0	0	58	9	0	0	6	0	0	0	0	225 ^c
1953	0 ^a	0	0	1	31	0	0	84	8	0	0	16	0	0	0	0	141
1954	0 ^a	0	0	0	20	0	0	146	12	0	0	17	2	0	0	0	196
1955	0 ^a	0	0	0	136	0	0	190	9	0	1	38	0	0	0	0	376
1956	225	0	0	4	114	0	0	306	22	0	1	13	0	0	0	0	461
1957	25	2	0	5	48	0	0	70	20	0	0	36	1	0	0	0	182
1958	72	0	1	2	68	0	0	115	59	0	0	25	0	0	0	0	270
1959	210	0	0	0	141	0	0	92	56	0	0	7	0	0	0	0	296
1960	163	0	0	2	191	0	0	274	22	0	0	52	0	0	0	0	541
1961	122	1	0	3	85	0	0	216	15	0	1	19	0	0	0	0	340
1962	62	0	0	7	48	0	0	102	4	0	0	8	0	0	0	0	170
1963	116	0	0	2	43	0	0	65	18	0	0	24	0	0	0	0	152
1964	105	0	0	1	43	0	0	84	41	0	0	6	0	0	0	0	175
1965	96	0	0	2	154	0	0	181	31	0	0	37	0	0	0	0	406
1966	104	1	0	6	200	0	0	419	4	0	1	9	0	0	0	0	642
1967	81	1	0	6	18	0	0	99	16	0	1	40	0	0	0	0	181
1968	50	0	0	1	49	0	0	190	6	0	3	13	0	0	0	0	263
1969	117	0	0	5	28	0	0	142	25	0	3	13	0	0	0	0	216
1970	203	0	0	1	54	0	0	226	55	0	1	70	0	0	0	0	408
1971	200	0	0	4	106	0	0	317	62	0	1	68	0	0	0	0	558
1972	79	0	0	2	93	0	0	150	21	0	2	34	0	0	0	0	304
1973	107	1	0	10	151	0	0	442	18	0	1	31	0	0	0	0	654
1974	104	0	0	2	271	0	0	307	73	0	3	45	0	1	0	0	704
1975	181	1	0	7	195	0	0	848	87	0	2	59	0	0	0	0	1,200
1976	189	0	0	1	189	0	0	558	142	0	4	175	0	0	0	0	1,069
1977	163	0	0	5	232	0	0	617	14	0	4	14	0	0	0	0	884
1978	306	0	0	12	149	0	0	430	65	0	1	25	0	0	0	0	682
1979	198	1	0	1	270	0	0	293	12	0	2	5	0	0	0	0	583
1980	527	0	0	5	45	0	1	224	10	0	0	19	0	0	0	0	305
1981	307	2	0	11	53	0	0	245	15	0	1	16	0	0	0	0	345
1982	289	0	0	16	109	0	0	255	14	0	5	26	0	0	0	0	425
1983	213	1	0	3	285	0	2	924	9	0	2	21	0	0	0	0	1,246
1984	151	0	0	14	21	0	0	109	4	0	1	17	0	0	0	0	167
1985	153	0	0	7	35	0	0	194	35	0	1	77	0	1	0	0	351
1986	203	0	0	18	77	0	1	445	83	0	14	121	0	0	0	0	760
1987	278	0	0	7	190	0	1	575	31	0	7	81	0	0	0	0	892
1988	309	1	0	9	111	0	3	403	34	0	3	53	0	0	0	0 ^d	616 ^c
1989	104	0	0	36	132	0	1	328	7	0	1	41	0	0 ^d	0 ^d	0 ^c	548 ^c
1990	166	1	0	23	101	0	1	460	75	0	5 ^d	36 ^d	0 ^d	0 ^c	0 ^c	0 ^c	704 ^c
1991	254	1	3	3	189	0	1 ^d	427 ^d	28 ^d	0 ^d	0 ^c	0 ^c	0 ^c	0 ^c	0 ^c	0 ^c	651 ^c
1992	210	1	0	35 ^d	50 ^d	0 ^d	0 ^c	0 ^c	0 ^c	0 ^c	0 ^c	0 ^c	0 ^c	0 ^c	0 ^c	0 ^c	86 ^c
1993	189	0 ^d	0 ^d	0 ^c	0 ^c	0 ^c	0 ^c	0 ^c	0 ^c	0 ^c	0 ^c	0 ^c	0 ^c	0 ^c	0 ^c	0 ^c	1 ^c

^a Escapement not available.

^b Younger age groups not available.

^c Incomplete returns from brood year escapement.

^d Estimate from 1996 preliminary return numbers.

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