SONAR ENUMERATION OF PACIFIC SALMON ESCAPEMENT INTO THE NUSHAGAK RIVER, 2000

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Regional Information Report No. 2A02-22

Alaska Department of Fish and Game
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333 Raspberry Road
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ABSTRACT

Estimates of Pacific salmon *Oncorhynchus spp.* escapement for the Nushagak River in Bristol Bay, Alaska, were determined by hydroacoustic techniques from June 10 through August 17, 2000. Estimates of species, age, sex, and size composition were derived from samples obtained with drift gillnets and beach seines. Final escapement estimates by species through August 17 were 403,500 sockeye salmon *O. nerka*, 56,374 chinook salmon *O. tshawytcha,* 141,323 chum salmon *O. keta,* 172,846 coho salmon *O. kisutch*, and 135,285 pink salmon *O. gorbuscha.*

INTRODUCTION

The purpose of this study was to estimate the escapement of Pacific salmon *Oncorhynchus spp.* for the Nushagak River in Bristol Bay, Alaska. Accurate escapement measurements into this system are essential to the management of local salmon fisheries.

In 1979, the Alaska Department of Fish and Game (ADF&G) examined the feasibility of using hydroacoustic (sonar) equipment and began developing procedures to count adult salmon in the Nushagak River (McBride 1981). During subsequent years, the Nushagak River sonar project has evolved to provide escapement information important to the management of commercial salmon fishing in the Nushagak District.

Project objectives in 2000 were to: 1) provide daily estimates of spawning escapements for chinook, sockeye, chum, pink, and coho salmon, from June 10 through August 17;
2) determine the age, sex, and size composition of these escapements.

Estimating the salmon escapement into the Nushagak River with sonar involves combining the estimate of the number of salmon-size hydroacoustic targets passing through the sonar beam(s) with the estimate of the species composition of fish going past the site through test-fishing.

Study Site

The Nushagak River is located in Southwestern Alaska (Figure 1) and flows approximately 390 km from its headwaters to Bristol Bay. The Nushagak drainage has two main tributaries: the Nuyakuk River, draining Tikchik Lakes, which enter from the west, and the Mulchatna River, which flows into the Nushagak from the east. These rivers support large runs of five species of Pacific salmon (Table 1) as well as several resident species that are harvested in commercial, sport and subsistence fisheries.
The project site was located on the lower Nushagak River, approximately 40 km upstream from the terminus of the Nushagak commercial fishing district and 4 km downstream from the village of Portage Creek (Figure 1). Almost the entire river is contained to one 300 m wide channel with the exception of one very small slough behind the camp. The site is located within tidal influence which causes a reduction of current during high tide, however there is rarely a reversal of flow and there appears to be very few fish milling in the area. Stock identification studies based on scale pattern analysis (Robertson 1984) indicated that the majority (93%) of the fish migrating past Portage Creek were destined for the Nushagak, Mulchatna, or Nuyakuk Rivers. Therefore very few fish migrating through the sonar are assumed to be stray fish from other rivers, which might migrate downstream at a later date.

METHODS

Project operation dates have varied over the years. Typically the project operates from early June to the third or fourth week of August. In 2000 the project lasted from 10 June to 17 August.

Hydroacoustic Counting

The sonar equipment used for the estimation of the Nushagak salmon run from 1979 to 2000 (Bendix Corporation, King and Tarbox 1989) consisted of an echo counter, a transducer, an oscilloscope and a power supply (12 volt battery with solar panel). Both an inshore and offshore Bendix system was implemented on each bank of the river for a total of four systems. Inshore echo counters were of a make/model that divided the counting range into 12 sectors; offshore counters divided the counting range into 16 sectors. All Bendix echo counters operate at 515 kHz with a pulse width of 100-μs. Pulse repetition rate, counting range, and sensitivity were adjustable.

Placement of the transducers and counting ranges were determined by the river bottom contour. Slope changes in the bottom contour required the deployment of two transducers (inshore and offshore) on each riverbank. Offshore transducers, located where the slope of the river bottom changed, were aimed perpendicular to the water flow and towards the middle of the river. Inshore transducers were deployed within 10 m of shore in water of sufficient depth for fish passage and counted out to the offshore transducer.

Transducers were mounted on metal tripods and aimed, with the aid of an oscilloscope, to ensonify the lower portion of the water column. The majority of the upstream migrating salmon are assumed to travel close to the river bottom because of the reduction of water resistance. In a previous experiment, it was suggested that over 88% of the fish occupied the lower two-fifths of the water column at the Nushagak River sonar site (Minard 1985). Offshore transducers were aimed with remote-controlled pan and tilt rotators, whereas inshore transducers were aimed manually adjusting the angle of the transducer mounts on the tripods. A picket weir was constructed from the shore to just beyond the inshore transducer on both riverbanks to prevent fish from passing behind the transducers or within approximately 1 m of the transducer face, an area in which the system may not detect fish.

Pulse repetition rate was adjusted on each counter to maintain counting precision at ±90% using calibration procedures described by Minard and Frederickson (1983). Counters were "calibrated" by comparing the output counts recorded by the sonar counter to those recorded by a trained technician observing an oscilloscope pattern of the signal generated by that counter. Counts from the oscilloscope were hand tallied for either a 10-min period or 100 counts whichever came first. At the end of the counting interval, the machine count was divided into the oscilloscope count to yield a percent agreement between the two. If the percent agreement was less than 90% or greater than 110% the pulse repetition rate was adjusted until an acceptable percent agreement was achieved. Counters were calibrated throughout the day between 0600 and 2400 hours. Frequency of calibrations was somewhat

dependent upon fish passage rates and the variability of fish swimming speeds; there was at least one calibration per hour during periods of peak fish passage.

Sonar count data were summarized by sector, counter location (inshore, offshore, left or right bank), hour, and day to evaluate spatial and temporal distributions of sonar counts.

Escapement Sampling

Species Composition Sampling

Daily sonar counts were apportioned among salmon species based on species proportions in samples collected with a 45.7-m (25 fathom) beach seine and 18.3-m (10 fathom) drift gillnets with mesh sizes of 20.6 cm (8.125 in), 15.2 cm (6.0 in), 13.0 cm (5.125 in), and 11.4-cm (4.5 in). All gillnets were composed of mono twist filament webbing dyed either Momoi shade #3 or Tairyo shade #T-14 (both are translucent light green). Twine size was dependent upon mesh size with 13.0- and 15.2-cm mesh gillnets having a Momoi #63 twine size, and 20.6-cm mesh gillnets having a Momoi #93 or equivalent twine size. Gillnet depth was 45 and 60 mesh (approximately 4-5 m deep) for the 13.0-cm mesh gillnets, 45 and 60 mesh for the 15.2-cm mesh gillnets, and 29 and 45 mesh (approximately 5-6 m deep) for the 20.6-cm mesh gillnets. Each gillnet was assumed to be of sufficient depth to fully sample the entire water column.

Sampling with beach seines occurred just upstream and sampling with gillnets occurred just downstream of the transducers so catches would represent the relative abundance of fish passing through the sonar beams. If time allowed, each gillnet drift started just below the sonar transducers. However, when time constraints occurred, the second drift in a sequence was started just downriver of the point where the previous drift ended. Because of the possibility that species composition was different between the inshore and offshore counting ranges, separate samples were taken: beach seines and gillnets for inshore and gillnets only for offshore strata. Inshore drifts with gillnets were started with one end on the bank, while offshore drifts were started with the near shore end of the net approximately the same distance from shore as the offshore transducer. For the purpose of estimating species composition, four area strata were defined (1 = left inshore, 2 = left offshore, 3 = right inshore, 4 = right offshore).

The 13.0- and 15.2-cm mesh gillnets were fished for the entire season (June 10 – August 17), while the 20.6-cm mesh was fished only during the period of major chinook salmon passage (June 10 - July 24). Each gillnet mesh was fished for a minimum of two drifts inshore and two drifts offshore on each bank during each set of drifts. During the period of peak sockeye salmon passage (June 23 - July 14), drift sessions were conducted three times daily: morning (0700 - 1100 hours), mid-day (1300 - 1700 hours), and evening (1800 - 2200 hours). Prior to June 23 and after July 14, drift sessions were conducted twice daily: mid-morning (0800 - 1000 hours) and early evening (1600 - 1800 hours). Drifts were not conducted at night because poor light conditions would make it impossible to maintain a

drift within assigned strata. The maximum number of drifts conducted for each mesh size along each bank's inshore and offshore strata was six per day.

Data recorded for each gillnet drift included (1) date, (2) drift session number (1 = morning, 2 = afternoon, 3 = evening), (3) boat operator, (4) drift number sequentially ordered through the season, (5) mesh size, (6) right or left river bank, (7) inshore or offshore counting ranges, (8) net length in fathoms, (9) fishing time, (10) number and species of catch, (11) length of each fish caught, mid-eye to fork-of-tail to nearest millimeter, and (12) sex as determined from external characteristics. Fishing time was recorded using a stopwatch.

Gillnet sampling data were entered into an Rbase[1] database.

When the fish passage rate on the right or left bank equaled or exceeded 1,000 fish/h, beach seines were used to sample inshore strata, whereas gillnets were used to sample offshore strata. For these days of high fish passage, at least three beach seine hauls per bank were conducted. The duration of a haul was not recorded because a unit of effort has not been defined for beach seining.

Species Composition Estimation

Daily estimates of escapement by species were based on catch samples and sonar count data. A program written in SAS[1] (1988) for use on the Yukon River (Fleischman et al. 1992) was modified to analyze Nushagak River data. Daily sonar counts were apportioned to species by bank and counting range. Catch per unit of effort (CPUE) from the four ensonified escapement sampling stations (#1-4) was used to calculate species proportions. Catch per fathom-hour was estimated for all species of salmon (chinook (1), sockeye (2), coho (3), pink (4), and chum (5) salmon), humpback whitefish *Coregonus pidschian* (6), and a category for "other" (7; includes Arctic char *Salvelinus alpinus,* Arctic grayling *Thymallus arcticus,* and rainbow trout *Oncorhynchus mykiss*).

No adjustments for net selectivity among species were made. Brannian et al. (1995) and Miller et al. (1994a) concluded that in order to adjust for selectivity, selectivity curves must be estimated using fish length or girth data obtained from escapement samples on the Nushagak River. Funding is not currently available to analyze selectivity of gillnets used at the Nushagak River sonar project.

[1] Mention of product name does not constitute endorsement.

To estimate fishing effort, fishing time (FT) was measured in minutes and seconds and calculated for each drift by,

$$FT = RI - FD \ , \tag{1}$$

where FD was the point in time when the net was fully deployed and RI was the point in time when net retrieval was initiated.

The number of fathom-hours (FH) was then calculated by,

$$FH = \frac{fFT}{60} \ , \tag{2}$$

where f was net length in fathoms (generally 10).

CPUE for each salmon species (group) was based on a subset of gillnet meshes fished. The combination of mesh sizes used to estimate the proportion of each species group was specified. CPUE for each species (i) on day j in strata k was calculated by summing across the number caught (C_{ijkmn}) with mesh size (m) and drift (n):

$$CPUE_{ijk} = \frac{\sum_{m=1}^{3} \sum_{n=1}^{6} u_{im} \ C_{ijkmn}}{\sum_{m=1}^{3} \sum_{n=1}^{6} u_{im} \ FH_{jkmn}} \ , \tag{3}$$

where u_{im} equals 1 if species i from mesh m is used to estimate species composition, and u_{im} equals 0 otherwise.

CPUE were cumulated across days to create a time (t) and area stratified estimate of species composition (Appendix A.1.). The duration of a time stratum (report period) varied by range and bank and was specified as an input file. The desired sample size for each time-area strata was 100 salmon. Based on Thompson's (1987) "worst case" parameter value for a multinomial distribution, a sample size of 100 salmon would result in simultaneously estimating the proportion for each species within 10% of the true proportion 90% of the time. Even if (1) there was a departure from the assumption underlying a multinomial distribution or (2) our use of raw catches, instead of CPUE data, decreased the likelihood of reaching the desired level of precision and accuracy, we felt that the 100-fish minimum sample size struck a balance between making strata too short to provide meaningful

estimates of species composition and making strata so long that they failed to reflect seasonal changes in species composition. If <100 salmon were captured during a day in an area strata, catches from the same gear type from subsequent days were accumulated until 100 salmon were obtained to define a reporting period. CPUE was used to estimate the proportion of species i in report period t and area strata k:

$$CPUE_{itk} = \sum_{j \in t} CPUE_{ijk} \quad . \tag{4}$$

Estimates of the proportion (S_{itk}) of species i for report period t and area strata k became

$$\hat{S}_{itk} = \frac{CPUE_{itk}}{\sum_{i=1}^{7} CPUE_{itk}} \quad . \tag{5}$$

In order to estimate the variance of the $\hat{S}_{itk}$, we generated replicate species proportion estimates ($\hat{S}_{ijk}$) for each day j within report period t, $\hat{S}_{itk}$ then became a weighted mean of the $\hat{S}_{ijk}$, where the weights are the total (all species) CPUE during day j of report period t. Variance of the $\hat{S}_{itk}$ were calculated after Cochran (1977) as

$$V(\hat{S}_{itk}) = \frac{1}{j} \sum_{j \in t} \left(\frac{\sum_{i=1}^{7} CPUE_{ijk}}{\frac{1}{j} \sum_{j=1}^{j} \sum_{i=1}^{7} CPUE_{ijk}} \right)^2 \left(\frac{(\hat{S}_{ijk} - \hat{S}_{itk})^2}{(j-1)} \right) \quad . \tag{6}$$

This variance estimator treats daily catches as clusters of fish (adjusted for unequal effort) sampled randomly from all fish passing by the site during report period t. The estimator accounts for the unequal size of the clusters by the weighting factor. Ideally, the fish caught during each drift *session* (two or three sessions per day) should have been treated as clusters, thus generating replicate species proportions for each session. Unfortunately, sample sizes were too small to allow each session to be treated as a cluster.

If beach seining occurred on a particular day and at least 100 salmon were caught, it would supersede any gillnet data for that area strata. Otherwise, catch data were pooled across several days of beach seining to obtain at least 100 salmon or were just ignored, in which case gillnet data were used. Species proportion estimates for the beach seine were based on

the ratio of the number of species i caught (C_{itk}) to total catch for report period t and area strata k:

$$\hat{S}_{itk} = \frac{C_{itk}}{\sum_{i=1}^{7} C_{itk}} \quad . \tag{7}$$

The variance was estimated using equation (6) through substituting C_{ijk} for $CPUE_{ijk}$.

Salmon Escapement Estimation

Sonar counts for each area strata (right and left bank, inshore and offshore) were apportioned to species on a daily basis. Daily estimates for each salmon species and area strata (N_{ijk}) were based on estimates of species proportions (S_{itk}) from escapement sampling and daily sonar counts (n_{jk}):

$$\hat{N}_{ijk} = \hat{S}_{ijk}\, n_{jk} \quad where\ j \in t\,. \tag{8}$$

Daily escapement by species was estimated by summing area strata estimates:

$$\hat{N}_{ij} = \sum_{k=1}^{4} \hat{N}_{ijk} \quad . \tag{9}$$

The variance of the daily estimate became

$$V(\hat{N}_{ij}) = \sum_{k=1}^{4} n_{jk}^2\, V(\hat{S}_{itk}) \quad where\ j \in t \quad . \tag{10}$$

Cumulative numbers of salmon were estimated by summing daily estimates, and the variance was a sum of daily variances. This variance is conservative because beach seine catches produce single day periods that have variances of zero.

Mesh Size Selection

Escapement estimates are affected to some degree by the combination of mesh sizes used in apportioning sonar counts. Miller et al. (1994b) and Miller (1995) found that 13.0- and 15.2-cm mesh gillnets were not significantly (non-statistical comparison - NSC) size selective for sockeye, chum, coho, or chinook salmon. The 20.6-cm mesh gillnet, however, tended to select for large sockeye and chum salmon. Therefore, only 13.0- and 15.2-cm mesh data were used to apportion sockeye and chum salmon, while data from all three mesh sizes (13.0-, 15.2-, and 20.6-cm) were used to apportion chinook salmon. Coho salmon were apportioned using 13.0- and 15.2-cm mesh data, as Miller et al. (1994b) found that data from these mesh sizes produced similar coho salmon length frequency distributions (LFD). Only the 11.4-cm mesh data were used to apportion pink salmon because Miller et al. (1994b) found this to be the only mesh size that produced a pink salmon LFD similar to that of a beach seine.

Age, Sex, and Size Sampling

Age, sex, and length (ASL) data were collected from chinook, sockeye, chum, and coho salmon migrating past the sonar site. Prior to 1995, only sockeye and chum salmon captured with beach seines were sampled for ASL data to avoid size selectivity associated with gillnets (Miller et al. 1994a, 1994b; Miller 1995). Because beach seine sets were only conducted during periods of peak fish passage, few to no sockeye salmon ASL samples were collected in early June and late July. In 1992, Miller (1994a) found that, of the suite of mesh sizes fished, the 13.0- and 15.2-cm mesh gillnets both had LFD's similar to the beach seine LFD, and that the 13.0-cm mesh gillnet sockeye salmon LFD most closely resembled that of the beach seine. In 1995, based on this information, sockeye salmon AWL data were collected from 13.0- and 15.2-cm mesh gillnets in addition to beach seines (Miller 1996). Beginning in 1996 and continuing through 2000, sockeye salmon ASL information was collected from 13.0-cm mesh gillnets and beach seines. As in the past, only chum salmon captured with beach seines and only sockeye and chum salmon caught in the apportionment strata (stations #1-4) were sampled for ASL data. Regardless of gear type, gillnet mesh size, or catch location, all chinook and coho salmon captured were sampled to increase the sample sizes for these species.

Age was determined by examining scales (Mosher 1968). Scales were collected from the left side of the fish approximately two rows above the lateral line in an area crossed by a diagonal from the posterior insertion of the dorsal fin to the anterior insertion of the anal fin (INPFC 1963). Because of the high rate of scale regeneration among chinook and coho salmon, three scales were collected from each fish. Only one scale per fish was collected from sockeye and chum salmon. Scales were mounted on gummed cards and impressions were made in cellulose acetate (Clutter and Whitesel 1956). European notation (Koo 1962) was used to record ages: numerals preceding the decimal refer to the number of freshwater annuli and numerals following the decimal refer to the number of marine annuli. Total age from time of egg deposition, or brood year, is the sum of these two numbers plus one to account for incubation time.

Sampling goals by species for the entire season were 1,200 sockeye, 500 chinook, 500 chum, and 250 coho salmon. The desired level of accuracy was 0.10, and 0.05 was the desired level of precision. Based on Thompson's (1987) work, a sample size of 363 readable sockeye, chinook, and chum scales and 180 readable coho scales would simultaneously estimate the major age class within 5% of the true percentage 90% of the time. Sample sizes of 400 per strata for sockeye salmon, 500 per strata for chinook and chum salmon, and 250 per strata for coho salmon were set to account for regenerated and unageable scales. Three time strata were desired for sockeye salmon, therefore the goal for the season was set at 1,200.

Salmon were measured from the middle-of-the-eye to the fork-of-the-tail and lengths were recorded to the nearest millimeter. Sex was determined from external characteristics for sockeye, chum, and coho salmon. The sex of young chinook salmon (age-1.1 and -1.2) was very difficult to determine from external characteristics. Because sex determination for many young chinook was subjective, we decided not to use the sex information collected.

Migratory Timing

Average proportions of passage by day for sockeye, chinook, chum, and pink salmon were calculated using all years that sonar data were available. Average proportions for coho salmon were calculated using only years that the project was operated through at least August 21. Average daily proportions ($\overline{p}_j$) were calculated by summing daily proportions (p_{ji}) for all years used and dividing by total number of years used (Y):

$$\overline{p}_j = \frac{\sum_{i=1}^{Y} p_{ji}}{Y} \quad . \tag{11}$$

Average cumulative proportions by day were calculated by summing the average daily proportions through time.

The 2000 runs by species were compared to their desired goals at the sonar site through time by applying historic migratory timing to the goals. The average daily cumulative proportions for each species were multiplied by their respective escapement point goals (550,000 for sockeye salmon, 75,000 for chinook salmon, 350,000 for chum salmon, 900,000 for pink salmon, and 100,000 for coho salmon).

Climatological Data

Weather data was collected at approximately 0800 and 2000 each day. Precipitation was measured to the nearest millimeter using a Taylor Clear View rain gauge; air temperatures were measured to the nearest 0.1 C using an Oregon Scientific digital thermometer; water temperatures were measured to the nearest 0.5 C using mercury thermometers; and wind direction and velocity (km/h) were measured using a Weathertronics anemometer.

RESULTS

Hydroacoustic Counting

Acoustic counting began in all strata on June 10 and ended August 17. A total of 910,904 counts were recorded in 2000 (Table 2).

Spatial Distribution of Sonar Counts

Sonar count distribution by bank varied throughout the season with counts at the end of the season totaling 338,898 on the left bank and 572,006 on the right bank. The inshore strata accounted for the majority of all sonar counts; the left bank inshore stratum accounted for 80% of all left bank sonar counts, while the right bank inshore stratum accounted for 91% of all right bank sonar counts (Appendices C.1 through C.4).

Differences in run timing among species allowed examination of sonar count spatial distribution during two separate time periods. Sockeye, chinook, and chum salmon were present primarily during the beginning of project operation (June 10) through July 30. Coho and pink salmon were the primary species present after July 30.

June 10 - July 30. During the period of sockeye, chinook, and chum salmon passage, count distribution in the right bank inshore stratum varied through time, with 86% of the counts occurring in the center of the counting range approximately 3.5 to 6.5 m from the transducer face. (Figure 2; Appendix C.1.). Similarly, most counts (75%) in the left bank inshore stratum occurred in the center of the counting range approximately 3.2 to 5.9 meters from the transducer face (Figure 3; Appendix C.3.). Peak passage in the right bank inshore stratum occurred June 28-July 1, while peak passage in the left bank inshore stratum occurred June 28 - 30.

Most counts during this time period in both right and left bank offshore strata were observed in the first half of the offshore counting ranges with 89% of the right bank offshore sonar counts occurring within 8.7 m of the transducer face and 82% of the left bank offshore sonar counts occurring within 6.0 m of the transducer face (Figures 2,3; Appendices C.2., C.4.). Both banks experienced few counts at the end of the offshore counting ranges. The last four sectors of the right bank offshore area accounted for 4.1% of the right bank offshore counts,

while the last four sectors of the left bank offshore area accounted for 5.2% of the left bank offshore counts. Peak passage in the right bank offshore stratum occurred June 25 (Appendix C.2.), while peak passage in the left bank offshore stratum occurred June 29 (Appendix C.4.).

July 31 - August 17. During the period of coho salmon passage, the right bank inshore stratum experienced the most sonar counts (94%) in the first half of the counting range within 5.0 m of the transducer face (Figure 4; Appendix C.1.). Count distribution for the left bank inshore stratum experienced the most counts as well (77%), for this time period, in the first half of the counting range. (Figure 5; Appendix C.3.). Several daily peaks in sonar counts occurred in the right bank inshore stratum with the largest peak of 28,006 counts occurring on August 2 (Appendix C.1). The peak of 23,617 counts for the left bank inshore counting range occurred on August 1 (Appendix C.3.).

Count distribution during this time period in the offshore strata indicates that most counts (73% on the right bank and 99% on the left bank) occurred within the inshore half of the counting ranges, or within approximately 13 m of the transducer face (Figures 4, 5; Appendices C.2., C.4.). Peak daily count occurred on August 2 in the right bank offshore stratum and July 31 in the left bank offshore stratum. The last four sectors of the right bank offshore area accounted for 8% of the right bank offshore counts, while the last four sectors of the left bank offshore area accounted for less than 1% of the left bank offshore counts (Figures 4, 5; Appendices C.2., C.4.).

Temporal Distribution of Sonar Counts

Information on patterns of hourly fish passage is of interest to determine optimal times for test fishing and equipment calibration. Any or all of a combination of variables such as tide, weather (winds, rainfall, etc.), and hours of daylight, as well as the time, date, and duration of commercial fishing periods might influence when migrating fish would pass the sonar site. Again, differences in run timing among species allowed examination of the temporal distribution of sonar counts during two time periods: June 10 - July 30 and July 31 - August 17.

June 10 - July 30 Hourly fish passage varied within and among strata during this time period. No significant temporal trends were apparent in the right and left bank inshore strata (Figure 6). Peak counts varied in the right bank offshore stratum, with the largest peaks in sonar counts occurring between 0100 and 0400. Peak passage in the left bank offshore stratum occurred between 0500 and 0800, with lowest passage occurring between 1000 and 2300 (Figure 6).

July 31 – August 17 Hourly fish passage during this time period varied among strata (Figure 7). The right and left bank inshore strata experienced lowest passage from 0100 to 0500 hours. Low passage in the right and left bank offshore strata was more variable throughout the day and night (Figure 7).

Escapement Sampling for Species Composition

A total of 3,842 gillnet drifts were completed in 2000 (Table 3, 4, Appendix D.1). The 20.6-cm, 15.2-cm, 13.0-cm and 11.4-cm mesh gillnets caught 394, 1,116, 1,197, and 341 salmon, respectively. The total gillnet catch of 3,048 fish was composed of 624 chinook salmon, 1,090 sockeye salmon, 565 chum salmon, 552 coho salmon, 207 pink salmon, 3 whitefish, and 4 "other" fish (Arctic char, Arctic grayling, and rainbow trout). Most salmon were caught in the right bank inshore stratum (1,037), followed by the left inshore (924), left offshore (620), and right offshore (467) strata. Successful beach seine sets were conducted June 28, June 30, July 13, July 31, and August 1 (Appendix D.2.). A total of 602 salmon were caught in 13 beach seine sets. The beach seine catch included mostly sockeye (273) and pink (144) salmon followed by coho (109), chum (73), and chinook (3) salmon.

The 13.0-cm gillnet caught the greatest number of sockeye salmon (530), followed by, 15.2-cm (412), beach seine (273), 20.6-cm (146), and 11.4-cm (2) mesh gillnets. Chum salmon were caught predominantly in the 15.2-cm mesh gillnet (262), followed by the 13.0-cm mesh gillnet (221), 20.6-cm mesh gillnet (80), beach seine (73), and 11.4-cm mesh gillnet (2). Chinook salmon were captured predominantly in gillnets, with the 15.2-cm mesh catching the most chinook (252), followed by the 13.0-cm mesh (204), and the 20.6-cm mesh (166). Only 3 chinook salmon were caught using beach seines. The 11.4-cm mesh gillnet (222) caught the most coho salmon followed by the 13.0-cm mesh gillnet (169), 15.2-cm mesh gillnet (160), the beach seine (109), and the 20.6-cm mesh gillnet (1). The beach seine caught the most pink salmon (144) followed by the 11.4-cm mesh gillnet (112), 13.0-cm mesh gill net (68), and 15.2-cm mesh gillnet (27). There were no pink salmon caught in the 20.6-cm mesh gillnet.

The duration of each gillnet drift was approximately 2.5 minutes.

Report Periods for Species Composition Estimation

In general, the occurrence of beach seines and/or the achievement of the 100-fish minimum sample size determined length of report periods. Sockeye, chum, and chinook salmon dominated the drift gillnet escapement sampling catch throughout most of July, while coho and pink salmon were the predominate species caught during August (Table 3, 4, 5; Appendix D.1.).

Estimates of Escapement

The overall salmon escapement estimate for Nushagak River in 2000 was 910,904 fish. This included 403,500 sockeye, 56,374 chinook, 141,323 chum, 72,846 coho salmon, and 135,285 pink salmon (Table 1). In addition, an estimated 661 humpback whitefish and 914 "other" fish (Arctic char, Arctic grayling, and rainbow trout) were counted passing the sonar site in 2000.

Age, Sex, and Size Estimates

Age and sex were determined for 587 sockeye salmon, 539 of which were also measured for length (Table 6) (West and Gray, 2001). The most prominent age class was age-1.3 (60%; 1995 brood year), followed by age-1.2 (37%; 1996 brood year), age-2.3 (1.7%; 1994 brood year), age 1.4 (1.5%; 1994 brood year), age-2.2 (1.2%; 1995 brood year) and age-0.3 (.17%; 1996 brood year). The male to female ratio was 54:46. Mean length by age ranged from 503 to 585 mm (Table 6).

Age was determined for 532 chinook salmon, 527 of which were measured for length (Table 7) (West and Gray, 2001). Three major age classes were present: age-1.4 (43%; 1994 brood year); -1.3 (31%; 1995 brood year); and -1.2 (23%; 1996 brood year). Mean length by age ranged from 469 mm for age-1.1 to 905 mm for age-1.5 chinook salmon (Table 7).

Age, sex and length were determined for 83 chum salmon (Table 8) (West and Gray, 2001). Age-0.4 (58%; 1995 brood year) and age-0.5 (40%; 1994 brood year) chum salmon predominated. The male to female ratio was 51:49. Mean length by age ranged from 562 to 618 mm (Table 8).

Age, sex, and length were determined for 237 coho salmon (Table 9) (West and Gray, 2001). Age-2.1 (90%; 1996 brood year) coho salmon were the predominant age class, followed by age-1.1 (8.0%; 1997 brood year) and age-3.1 (2.0%; 1995 brood year). The ratio of males to females was 56:44. Mean length by age ranged from 549 to 593 mm (Table 9).

Climatological Data

Sonar operations were not greatly affected by climatic conditions in 2000. A comparison of 2000 water temperatures with historic water temperatures collected at the site indicates that temperatures in 2000 were cool at the beginning of the season, but quickly warmed and remained near average throughout the remainder of the summer (Table 10; Appendix B.1.). Air temperature was also near average throughout the season (Table 10; Appendix B.1.).

DISCUSSION

The purpose of this study was to estimate the escapement of Pacific salmon for the Nushagak River using hydroacoustics. The 2000 season was operated similarly to years past and was successful in providing needed escapement estimates to area managers.

The spatial distribution of sonar counts differed from that of gillnet catches of salmon. This could indicate that fish catchability was different among inshore and offshore strata and river banks. Gillnets should fish more effectively in the offshore strata since visibility is lower and the net is covering a larger area vertically in deeper water.

Sockeye Salmon

Sockeye salmon were estimated passing the sonar site from June 10 through August 17 (Table 11). The 2000 escapement estimate of 403,500 sockeye salmon (S.E. = 10,037) was 73% of the 550,000 point goal within the biological escapement goal range of 235,000 to 760,000 sockeye salmon.

Peak sockeye salmon escapement timing in 2000 was similar to the 1980 - 1999 average peak escapement timing (Table 11; Figure 8). Peak sockeye salmon passage occurred June 28 to July 3 with the largest daily passage of 70,221 occurring on June 29.

Chinook Salmon

Chinook salmon were counted passing the sonar site immediately following installation of the sonar equipment on June 10 (Table 12). The 2000 escapement estimate of 56,372 chinook salmon (S.E. = 3,691) was 75% of the inriver escapement goal of 75,000 fish.

Peak chinook salmon escapement timing in 2000 was late compared to the 1986 – 1999 average escapement timing (Table 12; Figure 9). Chinook salmon passage first peaked on June 25 with an estimated 7,699 chinook salmon passing the sonar site. A second smaller peak occurred on July 1 with an estimated daily passage of 3,354 chinook salmon.

Chum Salmon

As with sockeye and chinook salmon, chum salmon were counted migrating past the sonar site the same day the sonar equipment was installed (Table 13). There is no formal biological escapement goal for chum salmon in the Nushagak River, but the 2000 escapement estimate of 141,324 (S.E. = 8,453) was 40% of the historical escapement objective of 350,000.

Peak chum salmon passage in 2000 was earlier than the 20-year (1980-1999) average peak escapement timing (Table 13; Figure 10). Peak chum salmon passage occurred June 25-30, with the largest daily passage estimate of 18,172 occurring on June 30. A smaller peak of 15,690 chum salmon also occurred on June 25.

Coho Salmon

Coho salmon were estimated passing the sonar site beginning July 7 (Table 14). The 2000 escapement estimate of 172,846 coho salmon (S.E. = 15,061) exceeded the inriver escapement goal of 100,000 fish.

Peak coho salmon passage in 2000 was earlier than the 18-year (1982-1999) average (Table 14; Figure 11). Peak coho salmon passage occurred July 28-August 5, with the largest daily passage estimate of 32,757 occurring on August 2.

Pink Salmon

Pink salmon were estimated passing the sonar site beginning June 30 (Table 15). The 2000 escapement estimate of 135,285 pink salmon (S.E. = 15,093) was 15% of the biological escapement goal of 900,000 (Figure 12). Pink salmon normally return to the Nushagak River during even-numbered years.

Peak pink salmon passage occurred July 31-August 4, with the largest daily estimate of 20,656 occurring on August 2. No ASL information were taken from pink salmon in 2000.

Future Work

The Bendix type sonar equipment has several limitations for estimating salmon escapement such as limited range, lack of species information, no direction of travel information, and there is no ability to save or reproduce the actual echo signal. Bendix no longer makes or services the equipment and there are limited replacement machines.

Currently, the sonar project is in a state of transition and is upgrading existing sonar counters with new equipment. The original equipment will still be used concurrently with the new gear for several years, however it will eventually be phased out. All escapement estimates are generated using the original equipment and it will be several years before estimates will be generated using the new equipment. In 2000 the new equipment was operated away from the Bendix gear to avoid any interference with normal operations.

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Tables

Table 1. Final daily and cumulative escapement estimates by species, Nushagak River sonar project, 2000.

	Sockeye		Chinook		Chum		Pink		Coho		Total	
Date	Daily	Cum.	Daily	Cum.	Daily	Cum.	Daily	Cum.	Daily	Cum.	Daily	Cum.
											0	0
6/10	73	73	309	309	529	529	0	0	0	0	911	911
6/11	46	119	171	480	410	939	0	0	0	0	627	1,538
6/12	67	186	197	677	552	1,491	0	0	0	0	816	2,354
6/13	245	431	872	1,549	1,743	3,234	0	0	0	0	2,860	5,214
6/14	86	517	292	1,841	665	3,899	0	0	0	0	1,043	6,257
6/15	54	571	273	2,114	369	4,268	0	0	0	0	696	6,953
6/16	261	832	1,107	3,221	2,236	6,504	0	0	0	0	3,604	10,557
6/17	386	1,218	2,791	6,012	4,290	10,794	0	0	0	0	7,467	18,024
6/18	140	1,358	938	6,950	1,117	11,911	0	0	0	0	2,195	20,219
6/19	453	1,811	1,895	8,845	3,804	15,715	0	0	0	0	6,152	26,371
6/20	724	2,535	2,855	11,700	6,188	21,903	0	0	0	0	9,767	36,138
6/21	405	2,940	1,419	13,119	3,382	25,285	0	0	0	0	5,206	41,344
6/22	264	3,204	928	14,047	2,326	27,611	0	0	0	0	3,518	44,862
6/23	124	3,328	546	14,593	1,054	28,665	0	0	0	0	1,724	46,586
6/24	94	3,422	428	15,021	889	29,554	0	0	0	0	1,411	47,997
6/25	1,968	5,390	7,699	22,720	15,690	45,244	0	0	0	0	25,357	73,354
6/26	16,742	22,132	5,441	28,161	14,334	59,578	0	0	0	0	36,517	109,871
6/27	4,247	26,379	1,098	29,259	3,637	63,215	0	0	0	0	8,982	118,853
6/28	45,905	72,284	2,412	31,671	11,077	74,292	0	0	0	0	59,394	178,247
6/29	70,221	142,505	2,291	33,962	17,056	91,348	0	0	0	0	89,568	267,815
6/30	46,978	189,483	2,451	36,413	18,172	109,520	356	356	0	0	67,957	335,772
7/01	30,858	220,341	3,354	39,767	4,925	114,445	0	356	0	0	39,137	374,909
7/02	13,997	234,338	1,560	41,327	2,261	116,706	0	356	0	0	17,818	392,727
7/03	13,110	247,448	1,767	43,094	2,180	118,886	0	356	0	0	17,057	409,784
7/04	15,431	262,879	2,162	45,256	2,445	121,331	0	356	17	17	20,055	429,839
7/05	6,656	269,535	874	46,130	948	122,279	0	356	38	55	8,516	438,355
7/06	4,479	274,014	820	46,950	693	122,972	0	356	25	80	6,017	444,372
7/07	2,530	276,544	610	47,560	430	123,402	0	356	18	98	3,588	447,960
7/08	2,535	279,079	535	48,095	415	123,817	0	356	15	113	3,500	451,460
7/09	3,630	282,709	414	48,509	524	124,341	42	398	37	150	4,647	456,107
7/10	5,121	287,830	414	48,923	677	125,018	52	450	35	185	6,299	462,406
7/11	2,581	290,411	238	49,161	314	125,332	33	483	24	209	3,190	465,596

Table 1. Final daily and cumulative escapement estimates by species, Nushagak River sonar project, 2000.

	Sockeye		Chinook		Chum		Pink		Coho		Total	
Date	Daily	Cum.	Daily	Cum.	Daily	Cum.	Daily	Cum.	Daily	Cum.	Daily	Cum.
7/12	5,086	295,497	334	49,495	627	125,959	30	513	27	236	6,104	471,700
7/13	41,229	336,726	951	50,446	3,505	129,464	53	566	72	308	45,810	517,510
7/14	27,279	364,005	1,252	51,698	3,875	133,339	70	636	2,187	2,495	34,663	552,173
7/15	4,694	368,699	391	52,089	687	134,026	33	669	324	2,819	6,129	558,302
7/16	4,880	373,579	408	52,497	705	134,731	44	713	353	3,172	6,390	564,692
7/17	3,903	377,482	291	52,788	626	135,357	461	1,174	794	3,966	6,075	570,767
7/18	3,771	381,253	297	53,085	616	135,973	492	1,666	813	4,779	5,989	576,756
7/19	2,562	383,815	308	53,393	449	136,422	470	2,136	674	5,453	4,463	581,219
7/20	2,157	385,972	203	53,596	359	136,781	424	2,560	612	6,065	3,755	584,974
7/21	2,294	388,266	181	53,777	374	137,155	390	2,950	592	6,657	3,831	588,805
7/22	1,812	390,078	181	53,958	283	137,438	517	3,467	883	7,540	3,676	592,481
7/23	1,986	392,064	111	54,069	301	137,739	804	4,271	1111	8,651	4,313	596,794
7/24	2,332	394,396	87	54,156	343	138,082	466	4,737	756	9,407	3,984	600,778
7/25	1,421	395,817	68	54,224	221	138,303	1,066	5,803	1351	10,758	4,127	604,905
7/26	238	396,055	33	54,257	79	138,382	1,565	7,368	1417	12,175	3,332	608,237
7/27	291	396,346	55	54,312	95	138,477	1,964	9,332	1782	13,957	4,187	612,424
7/28	1,202	397,548	198	54,510	403	138,880	8,009	17,341	7414	21,371	17,226	629,650
7/29	1,027	398,575	466	54,976	359	139,239	7,018	24,359	6900	28,271	15,770	645,420
7/30	827	399,402	72	55,048	269	139,508	6,018	30,377	6099	34,370	13,285	658,705
7/31	183	399,585	136	55,184	177	139,685	12,026	42,403	5223	39,593	17,745	676,450
8/01	1,035	400,620	339	55,523	336	140,021	18,467	60,870	28,732	68,325	48,909	725,359
8/02	1,071	401,691	370	55,893	353	140,374	20,656	81,526	32757	101,082	55,207	780,566
8/03	1,031	402,722	323	56,216	328	140,702	17,769	99,295	27,150	128,232	46,601	827,167
8/04	769	403,491	156	56,372	433	141,135	13,169	112,464	19,085	147,317	33,612	860,779
8/05	9	403,500	0	56,372	89	141,224	9,588	122,052	10,097	157,414	19,783	880,562
8/06					16	141,240	3,307	125,359	3,509	160,923	6,832	887,394
8/07					12	141,252	1,428	126,787	1,611	162,534	3,051	890,445
8/08					9	141,261	1,715	128,502	1,786	164,320	3,510	893,955
8/09					6	141,267	1,336	129,838	1,459	165,779	2,801	896,756
8/10					8	141,275	803	130,641	1,026	166,805	1,837	898,593
8/11					6	141,281	647	131,288	782	167,587	1,435	900,028
8/12					7	141,288	591	131,879	694	168,281	1,292	901,320
8/13					12	141,300	707	132,586	955	169,236	1,674	902,994

Table 1. Final daily and cumulative escapement estimates by species, Nushagak River sonar project, 2000.

	Sockeye		Chinook		Chum		Pink		Coho		Total	
Date	Daily	Cum.	Daily	Cum.	Daily	Cum.	Daily	Cum.	Daily	Cum.	Daily	Cum.
8/14					8	141,308	1096	133,682	1,312	170,548	2,416	905,410
8/15					5	141,313	525	134,207	713	171,261	1,243	906,653
8/16					5	141,318	687	134,894	1,035	172,296	1,727	908,380
8/17					6	141,324	393	135,287	553	172,849	952	909,332
8/18												
8/19												
8/20												
8/21												
8/22												
8/23												
8/24												
8/25												
Total	403,500		56,372		141,324		135,287		172,849		909,332	

Table 2. Daily inshore and offshore sonar counts by bank, Nushagak River sonar project, 2000.

Date	Left Bank		Right Bank	
	Inshore	Offshore	Inshore	Offshore
6/10	379	89	400	47
6/11	104	57	421	46
6/12	201	18	557	42
6/13	1,251	109	1,357	157
6/14	355	34	581	77
6/15	333	105	227	34
6/16	814	425	2,109	265
6/17	1,647	723	2,273	2,841
6/18	646	624	872	61
6/19	1,541	665	3,490	473
6/20	2,391	745	5,627	1,029
6/21	1,292	297	3,228	403
6/22	686	201	2,293	345
6/23	460	167	892	210
6/24	262	122	776	253
6/25	9,212	694	11,689	3,860
6/26	14,179	1,519	17,613	3,206
6/27	2,005	448	5,809	720
6/28	9,957	429	47,452	1,556
6/29	23,785	1,192	62,494	2,097
6/30	23,047	1,920	40,905	2,086
7/01	15,339	1,057	21,353	1,562
7/02	5,719	619	10,625	942
7/03	7,422	524	8,197	981
7/04	7,685	943	9,925	1,582
7/05	2,246	367	4,329	1,617
7/06	1,197	494	3,073	1,284
7/07	747	389	1,433	1,033
7/08	610	341	1,709	858
7/09	918	235	2,700	821
7/10	749	293	4,949	358
7/11	768	186	2,137	120
7/12	1,123	171	4,663	194
7/13	4,206	297	40,458	849
7/14	2,520	398	30,793	1,266
7/15	1,024	186	4,231	731
7/16	973	247	4,615	603
7/17	957	175	4,461	527
7/18	1,029	167	4,224	611
7/19	952	234	2,660	643
7/20	887	142	2,370	379
7/21	826	105	2,574	352
7/22	839	226	2,211	423
7/23	1,660	86	2,412	179
7/24	959	36	2,898	120
7/25	2,264	28	1,671	182
7/26	1,771	33	1,395	133

Table 2. Daily inshore and offshore sonar counts by bank, Nushagak River sonar project, 2000.

Date	Left Bank		Right Bank	
	Inshore	Offshore	Inshore	Offshore
7/27	2,443	63	1,585	96
7/28	9,331	218	6,801	876
7/29	9,165	690	4,777	1,138
7/30	7,740	689	4,323	533
7/31	3,713	496	12,340	1,197
8/01	22,939	1,495	22,164	2,311
8/02	23,617	960	28,006	2,623
8/03	22,940	1,182	20,426	2,052
8/04	17,376	1,169	14,136	931
8/05	13,600	489	5,249	452
8/06	5,178	164	1,144	349
8/07	2,027	57	840	128
8/08	2,661	54	661	135
8/09	2,105	104	405	188
8/10	1,064	83	547	144
8/11	884	38	423	90
8/12	753	26	482	31
8/13	741	57	807	69
8/14	1,533	206	532	148
8/15	677	107	338	123
8/16	953	147	329	300
8/17	403	62	435	53
Total	311,780	27,118	519,881	52,125

Table 3. Drift gillnet catch by mesh size and species, Nushagak River sonar project, June 10 - July 25, 2000.

		Drift Stratum Number[a]			
		Left Bank (Within Sonar Range)		Right Bank (Within Sonar Range)	
Gillnet Mesh Size	Species	1	2	4	3
13.0-cm	Chinook	44	95	46	19
	Sockeye	195	10	62	255
	Chum	60	25	52	78
	Coho	7	0	1	3
15.2-cm	Chinook	49	142	126	16
	Sockeye	151	17	31	211
	Chum	66	11	52	132
	Coho	3	0	0	1
20.6-cm	Chinook	19	108	29	10
	Sockeye	56	3	14	77
	Chum	29	5	14	32
	Coho	0	0	0	1
All Meshes	Chinook	112	345	118	45
	Sockeye	402	30	103	543
	Chum	155	41	118	242
	Coho	10	0	1	5

[a] 1 = Left bank inshore
2 = Left bank offshore
3 = Right bank inshore
4 = Right bank offshore

Table 4. Drift gillnet catch by mesh size and species, Nushagak River sonar project, July 25-August 17, 2000.

		Drift Stratum Number[a]			
		Left Bank (Within Sonar Range)		Right Bank (Within Sonar Range)	
Gillnet Mesh Size	Species	1	2	4	3
11.4-cm	Chinook	0	2	0	0
	Sockeye	1	0	0	1
	Chum	0	0	0	2
	Coho	49	72	42	59
13.0-cm	Chinook	0	0	0	0
	Sockeye	3	0	0	5
	Chum	0	0	0	2
	Coho	49	72	42	59
15.2-cm	Chinook	0	2	0	0
	Sockeye	0	0	1	1
	Chum	0	0	1	0
	Coho	37	47	35	37
All Meshes	Chinook	0	4	0	0
	Sockeye	4	0	1	7
	Chum	2	0	3	4
	Coho	131	167	110	128

[a] 1 = Left bank inshore
2 = Left bank offshore
3 = Right bank inshore
4 = Right bank offshore

Table 5A. Escapement sampling catch proportions by report period, date, drift session, and species, for the left bank nearshore counting range, June 11 - August 17, 2000.

Temporal Report Period	Date	Drift Session Number	Catch	Proportion of Catch						
				Chinook	Sockeye	Chum	Pink	Coho	Other	Total
1	6/11	3	1	1.00	0.00	0.00	0.00	0.00	0.00	1.00
1	6/12	1	1	0.00	0.00	1.00	0.00	0.00	0.00	1.00
1	6/13	1	3	0.26	0.00	0.74	0.00	0.00	0.00	1.00
1	6/13	3	2	1.00	0.00	0.00	0.00	0.00	0.00	1.00
1	6/14	1	1	1.00	0.00	0.00	0.00	0.00	0.00	1.00
1	6/16	3	5	0.73	0.00	0.27	0.00	0.00	0.00	1.00
1	6/17	1	6	0.25	0.00	0.75	0.00	0.00	0.00	1.00
1	6/17	3	7	0.47	0.00	0.35	0.00	0.00	0.18	1.00
1	6/19	3	13	0.52	0.00	0.48	0.00	0.00	0.00	1.00
1	6/20	1	10	0.22	0.33	0.44	0.00	0.00	0.00	1.00
1	6/20	2	5	0.73	0.00	0.27	0.00	0.00	0.00	1.00
1	6/20	3	2	0.00	1.00	0.00	0.00	0.00	0.00	1.00
1	6/21	1	1	0.00	1.00	0.00	0.00	0.00	0.00	1.00
1	6/21	2	1	0.00	0.00	1.00	0.00	0.00	0.00	1.00
1	6/21	3	2	1.00	0.00	0.00	0.00	0.00	0.00	1.00
1	6/22	1	3	0.25	0.00	0.75	0.00	0.00	0.00	1.00
1	6/22	2	6	0.25	0.38	0.38	0.00	0.00	0.00	1.00
1	6/23	1	2	0.00	0.50	0.50	0.00	0.00	0.00	1.00
1	6/23	2	5	0.00	0.20	0.80	0.00	0.00	0.00	1.00
1	6/24	2	1	1.00	0.00	0.00	0.00	0.00	0.00	1.00
1	6/25	1	7	0.80	0.00	0.20	0.00	0.00	0.00	1.00
1	6/25	2	5	0.31	0.00	0.69	0.00	0.00	0.00	1.00
1	6/25	3	27	0.46	0.00	0.54	0.00	0.00	0.00	1.00
2	6/26	1	15	0.20	0.07	0.73	0.00	0.00	0.00	1.00
2	6/26	2	16	0.50	0.00	0.50	0.00	0.00	0.00	1.00
2	6/26	3	1	0.00	0.00	1.00	0.00	0.00	0.00	1.00
2	6/26	5	2	1.00	0.00	0.00	0.00	0.00	0.00	1.00
2	6/27	1	7	0.00	1.00	0.00	0.00	0.00	0.00	1.00
2	6/27	2	11	0.00	0.64	0.36	0.00	0.00	0.00	1.00
2	6/27	3	6	0.12	0.35	0.53	0.00	0.00	0.00	1.00
2	6/28	2	34	0.00	0.94	0.06	0.00	0.00	0.00	1.00
2	6/28	3	19	0.03	0.91	0.05	0.00	0.00	0.00	1.00
3	6/29	1	15	0.00	0.87	0.13	0.00	0.00	0.00	1.00
3	6/29	2	29	0.00	0.62	0.38	0.00	0.00	0.00	1.00
3	6/29	3	29	0.05	0.74	0.21	0.00	0.00	0.00	1.00
3	6/30	1	18	0.04	0.79	0.17	0.00	0.00	0.00	1.00
3	6/30	2	27	0.03	0.67	0.30	0.00	0.00	0.00	1.00
3	6/30	3	9	0.00	1.00	0.00	0.00	0.00	0.00	1.00
4	7/01	1	17	0.13	0.81	0.06	0.00	0.00	0.00	1.00
4	7/01	2	11	0.00	1.00	0.00	0.00	0.00	0.00	1.00
4	7/01	3	11	0.13	0.68	0.19	0.00	0.00	0.00	1.00

Table 5A. Escapement sampling catch proportions by report period, date, drift session, and species, for the left bank nearshore counting range, June 11 - August 17, 2000.

Temporal Report Period	Date	Drift Session Number	Catch	Proportion of Catch						
				Chinook	Sockeye	Chum	Pink	Coho	Other	Total
4	7/02	1	9	0.16	0.84	0.00	0.00	0.00	0.00	1.00
4	7/02	2	5	0.31	0.69	0.00	0.00	0.00	0.00	1.00
4	7/02	3	8	0.09	0.91	0.00	0.00	0.00	0.00	1.00
4	7/03	1	6	0.40	0.60	0.00	0.00	0.00	0.00	1.00
4	7/03	2	6	0.12	0.71	0.18	0.00	0.00	0.00	1.00
4	7/03	3	14	0.10	0.75	0.15	0.00	0.00	0.00	1.00
4	7/04	1	12	0.12	0.62	0.27	0.00	0.00	0.00	1.00
4	7/04	2	9	0.16	0.60	0.24	0.00	0.00	0.00	1.00
4	7/04	3	12	0.00	0.67	0.33	0.00	0.00	0.00	1.00
5	7/05	1	2	0.00	1.00	0.00	0.00	0.00	0.00	1.00
5	7/05	3	3	0.25	0.75	0.00	0.00	0.00	0.00	1.00
5	7/06	2	4	0.40	0.60	0.00	0.00	0.00	0.00	1.00
5	7/06	3	1	0.00	1.00	0.00	0.00	0.00	0.00	1.00
5	7/07	1	2	1.00	0.00	0.00	0.00	0.00	0.00	1.00
5	7/08	1	2	0.00	0.50	0.50	0.00	0.00	0.00	1.00
5	7/08	2	2	1.00	0.00	0.00	0.00	0.00	0.00	1.00
5	7/10	1	1	1.00	0.00	0.00	0.00	0.00	0.00	1.00
5	7/10	2	5	0.00	1.00	0.00	0.00	0.00	0.00	1.00
5	7/11	2	1	0.00	1.00	0.00	0.00	0.00	0.00	1.00
5	7/12	2	3	0.00	0.67	0.33	0.00	0.00	0.00	1.00
5	7/12	3	3	0.00	1.00	0.00	0.00	0.00	0.00	1.00
5	7/13	1	2	0.40	0.60	0.00	0.00	0.00	0.00	1.00
5	7/13	2	31	0.00	1.00	0.00	0.00	0.00	0.00	1.00
5	7/13	3	18	0.00	0.94	0.06	0.00	0.00	0.00	1.00
5	7/14	1	6	0.00	0.83	0.17	0.00	0.00	0.00	1.00
5	7/14	2	5	0.00	0.60	0.40	0.00	0.00	0.00	1.00
5	7/14	3	6	0.00	1.00	0.00	0.00	0.00	0.00	1.00
5	7/15	3	1	1.00	0.00	0.00	0.00	0.00	0.00	1.00
5	7/16	1	1	0.00	1.00	0.00	0.00	0.00	0.00	1.00
5	7/16	3	6	0.12	0.71	0.00	0.00	0.18	0.00	1.00
6	7/17	1	1	1.00	0.00	0.00	0.00	0.00	0.00	1.00
6	7/17	3	1	0.00	0.00	0.00	0.00	1.00	0.00	1.00
6	7/18	1	5	0.00	0.40	0.00	0.00	0.60	0.00	1.00
6	7/19	1	1	0.00	0.00	0.00	0.00	1.00	0.00	1.00
6	7/19	3	2	0.40	0.60	0.00	0.00	0.00	0.00	1.00
6	7/21	1	1	0.00	0.00	0.00	0.00	1.00	0.00	1.00
6	7/21	3	1	0.00	1.00	0.00	0.00	0.00	0.00	1.00
6	7/22	1	3	0.00	0.00	0.00	0.00	1.00	0.00	1.00
6	7/23	1	1	0.00	1.00	0.00	0.00	0.00	0.00	1.00
6	7/28	1	6	0.00	0.00	0.11	0.82	0.07	0.00	1.00
6	7/28	3	8	0.00	0.00	0.07	0.88	0.05	0.00	1.00

Table 5A. Escapement sampling catch proportions by report period, date, drift session, and species, for the left bank nearshore counting range, June 11 - August 17, 2000.

Temporal Report Period	Date	Drift Session Number	Catch	Proportion of Catch						
				Chinook	Sockeye	Chum	Pink	Coho	Other	Total
6	7/29	1	3	0.00	0.00	0.00	0.60	0.40	0.00	1.00
6	7/29	3	3	0.00	1.00	0.00	0.00	0.00	0.00	1.00
6	7/30	1	3	0.00	0.00	0.00	1.00	0.00	0.00	1.00
6	7/30	3	3	0.00	0.00	0.00	1.00	0.00	0.00	1.00
6	7/31	1	1	0.00	0.00	0.00	1.00	0.00	0.00	1.00
6	8/01	1	20	0.00	0.00	0.00	0.14	0.86	0.00	1.00
6	8/01	3	19	0.00	0.00	0.00	0.00	1.00	0.00	1.00
6	8/02	1	3	0.00	0.00	0.00	0.00	1.00	0.00	1.00
6	8/02	3	9	0.00	0.00	0.00	0.26	0.75	0.00	1.00
6	8/03	1	5	0.00	0.00	0.00	0.00	1.00	0.00	1.00
6	8/03	3	13	0.00	0.00	0.00	0.32	0.68	0.00	1.00
6	8/04	1	6	0.00	0.00	0.00	0.00	1.00	0.00	1.00
6	8/04	3	17	0.00	0.00	0.00	0.73	0.27	0.00	1.00
7	8/05	1	14	0.00	0.00	0.00	0.55	0.46	0.00	1.00
7	8/05	3	9	0.00	0.00	0.00	0.60	0.40	0.00	1.00
7	8/06	1	7	0.00	0.00	0.00	0.33	0.67	0.00	1.00
7	8/06	3	4	0.00	0.00	0.00	0.51	0.49	0.00	1.00
7	8/07	3	3	0.00	0.00	0.00	0.00	1.00	0.00	1.00
7	8/08	1	2	0.00	0.00	0.00	0.00	1.00	0.00	1.00
7	8/08	3	3	0.00	0.00	0.00	1.00	0.00	0.00	1.00
7	8/09	3	3	0.00	0.00	0.00	0.60	0.40	0.00	1.00
7	8/10	1	5	0.00	0.00	0.00	0.92	0.08	0.00	1.00
7	8/11	3	4	0.00	0.00	0.00	0.50	0.50	0.00	1.00
7	8/12	1	1	0.00	0.00	0.00	0.00	1.00	0.00	1.00
7	8/13	3	2	0.00	0.00	0.00	0.75	0.25	0.00	1.00
7	8/14	1	1	0.00	0.00	0.00	0.00	1.00	0.00	1.00
7	8/15	1	1	0.00	0.00	0.00	0.00	1.00	0.00	1.00
7	8/15	3	2	0.00	0.00	0.00	0.00	1.00	0.00	1.00
7	8/16	1	2	0.00	0.00	0.00	0.00	1.00	0.00	1.00
7	8/16	3	3	0.00	0.00	0.00	0.00	1.00	0.00	1.00

Table 5B. Escapement sampling catch proportions by report period, date, drift session, and species, for the left bank offshore counting range, June 12 - August 17, 2000.

Temporal Report Period	Date	Drift Session Number	Catch	Proportion of Catch						
				Chinook	Sockeye	Chum	Pink	Coho	Other	Total
1	6/12	3	1	1.00	0.00	0.00	0.00	0.00	0.00	1.00
1	6/13	1	5	1.00	0.00	0.00	0.00	0.00	0.00	1.00
1	6/13	3	3	1.00	0.00	0.00	0.00	0.00	0.00	1.00
1	6/14	1	1	1.00	0.00	0.00	0.00	0.00	0.00	1.00
1	6/14	3	4	1.00	0.00	0.00	0.00	0.00	0.00	1.00
1	6/15	1	1	1.00	0.00	0.00	0.00	0.00	0.00	1.00
1	6/15	3	1	1.00	0.00	0.00	0.00	0.00	0.00	1.00
1	6/16	1	2	1.00	0.00	0.00	0.00	0.00	0.00	1.00
1	6/16	3	3	1.00	0.00	0.00	0.00	0.00	0.00	1.00
1	6/17	1	4	1.00	0.00	0.00	0.00	0.00	0.00	1.00
1	6/17	3	2	0.40	0.00	0.60	0.00	0.00	0.00	1.00
1	6/18	3	1	1.00	0.00	0.00	0.00	0.00	0.00	1.00
1	6/19	3	5	1.00	0.00	0.00	0.00	0.00	0.00	1.00
1	6/20	1	6	1.00	0.00	0.00	0.00	0.00	0.00	1.00
1	6/20	2	1	1.00	0.00	0.00	0.00	0.00	0.00	1.00
1	6/20	3	3	1.00	0.00	0.00	0.00	0.00	0.00	1.00
1	6/21	1	1	1.00	0.00	0.00	0.00	0.00	0.00	1.00
1	6/21	2	1	1.00	0.00	0.00	0.00	0.00	0.00	1.00
1	6/22	2	4	0.00	0.00	1.00	0.00	0.00	0.00	1.00
1	6/25	1	13	1.00	0.00	0.00	0.00	0.00	0.00	1.00
1	6/25	2	20	0.79	0.00	0.21	0.00	0.00	0.00	1.00
1	6/25	3	8	0.80	0.00	0.20	0.00	0.00	0.00	1.00
1	6/26	1	9	0.70	0.00	0.30	0.00	0.00	0.00	1.00
1	6/26	2	2	1.00	0.00	0.00	0.00	0.00	0.00	1.00
1	6/26	3	3	0.25	0.00	0.75	0.00	0.00	0.00	1.00
1	6/26	5	2	1.00	0.00	0.00	0.00	0.00	0.00	1.00
2	6/27	1	7	1.00	0.00	0.00	0.00	0.00	0.00	1.00
2	6/27	2	1	1.00	0.00	0.00	0.00	0.00	0.00	1.00
2	6/27	3	1	1.00	0.00	0.00	0.00	0.00	0.00	1.00
2	6/28	1	2	1.00	0.00	0.00	0.00	0.00	0.00	1.00
2	6/28	2	6	1.00	0.00	0.00	0.00	0.00	0.00	1.00
2	6/28	3	5	0.31	0.00	0.69	0.00	0.00	0.00	1.00
2	6/29	1	7	0.80	0.00	0.20	0.00	0.00	0.00	1.00
2	6/29	2	4	1.00	0.00	0.00	0.00	0.00	0.00	1.00
2	6/29	3	3	0.25	0.00	0.75	0.00	0.00	0.00	1.00
2	6/30	1	8	0.82	0.00	0.18	0.00	0.00	0.00	1.00
2	6/30	2	17	0.26	0.60	0.13	0.00	0.00	0.00	1.00
2	6/30	3	8	0.82	0.18	0.00	0.00	0.00	0.00	1.00
2	7/01	1	13	0.69	0.10	0.21	0.00	0.00	0.00	1.00
2	7/01	2	10	1.00	0.00	0.00	0.00	0.00	0.00	1.00
2	7/01	3	4	0.67	0.33	0.00	0.00	0.00	0.00	1.00

Table 5B. Escapement sampling catch proportions by report period, date, drift session, and species, for the left bank offshore counting range, June 12 - August 17, 2000.

Temporal Report Period	Date	Drift Session Number	Catch	Proportion of Catch						
				Chinook	Sockeye	Chum	Pink	Coho	Other	Total
2	7/02	1	3	0.57	0.43	0.00	0.00	0.00	0.00	1.00
2	7/02	2	9	0.70	0.00	0.30	0.00	0.00	0.00	1.00
2	7/02	3	3	1.00	0.00	0.00	0.00	0.00	0.00	1.00
3	7/03	1	13	1.00	0.00	0.00	0.00	0.00	0.00	1.00
3	7/03	2	5	1.00	0.00	0.00	0.00	0.00	0.00	1.00
3	7/03	3	4	1.00	0.00	0.00	0.00	0.00	0.00	1.00
3	7/04	1	7	1.00	0.00	0.00	0.00	0.00	0.00	1.00
3	7/04	2	9	0.87	0.14	0.00	0.00	0.00	0.00	1.00
3	7/04	3	6	0.40	0.20	0.40	0.00	0.00	0.00	1.00
3	7/05	1	3	1.00	0.00	0.00	0.00	0.00	0.00	1.00
3	7/05	2	6	0.57	0.21	0.21	0.00	0.00	0.00	1.00
3	7/05	3	2	1.00	0.00	0.00	0.00	0.00	0.00	1.00
3	7/06	1	9	0.70	0.15	0.15	0.00	0.00	0.00	1.00
3	7/06	2	2	1.00	0.00	0.00	0.00	0.00	0.00	1.00
3	7/06	3	4	1.00	0.00	0.00	0.00	0.00	0.00	1.00
3	7/07	1	9	1.00	0.00	0.00	0.00	0.00	0.00	1.00
3	7/07	3	6	0.77	0.00	0.23	0.00	0.00	0.00	1.00
3	7/08	1	4	1.00	0.00	0.00	0.00	0.00	0.00	1.00
3	7/08	2	4	1.00	0.00	0.00	0.00	0.00	0.00	1.00
3	7/08	3	7	1.00	0.00	0.00	0.00	0.00	0.00	1.00
4	7/09	1	13	0.89	0.11	0.00	0.00	0.00	0.00	1.00
4	7/09	2	1	1.00	0.00	0.00	0.00	0.00	0.00	1.00
4	7/09	3	5	0.73	0.27	0.00	0.00	0.00	0.00	1.00
4	7/10	1	6	1.00	0.00	0.00	0.00	0.00	0.00	1.00
4	7/10	2	2	0.40	0.60	0.00	0.00	0.00	0.00	1.00
4	7/10	3	1	1.00	0.00	0.00	0.00	0.00	0.00	1.00
4	7/11	1	3	1.00	0.00	0.00	0.00	0.00	0.00	1.00
4	7/12	1	1	0.00	1.00	0.00	0.00	0.00	0.00	1.00
4	7/12	2	2	1.00	0.00	0.00	0.00	0.00	0.00	1.00
4	7/12	3	1	1.00	0.00	0.00	0.00	0.00	0.00	1.00
4	7/13	2	4	1.00	0.00	0.00	0.00	0.00	0.00	1.00
4	7/13	3	2	0.40	0.00	0.60	0.00	0.00	0.00	1.00
4	7/14	1	5	0.31	0.69	0.00	0.00	0.00	0.00	1.00
4	7/14	2	3	0.57	0.43	0.00	0.00	0.00	0.00	1.00
4	7/15	1	2	0.40	0.00	0.60	0.00	0.00	0.00	1.00
4	7/15	3	1	1.00	0.00	0.00	0.00	0.00	0.00	1.00
4	7/16	1	4	0.67	0.00	0.00	0.00	0.33	0.00	1.00
4	7/16	3	6	0.57	0.00	0.21	0.00	0.21	0.00	1.00
4	7/17	1	6	0.77	0.23	0.00	0.00	0.00	0.00	1.00
4	7/18	1	2	1.00	0.00	0.00	0.00	0.00	0.00	1.00
4	7/18	3	1	0.00	0.00	1.00	0.00	0.00	0.00	1.00

Table 5B. Escapement sampling catch proportions by report period, date, drift session, and species, for the left bank offshore counting range, June 12 - August 17, 2000.

Temporal Report Period	Date	Drift Session Number	Catch	Proportion of Catch						
				Chinook	Sockeye	Chum	Pink	Coho	Other	Total
4	7/19	1	2	1.00	0.00	0.00	0.00	0.00	0.00	1.00
4	7/19	3	5	1.00	0.00	0.00	0.00	0.00	0.00	1.00
4	7/20	1	5	0.60	0.20	0.20	0.00	0.00	0.00	1.00
4	7/20	3	2	1.00	0.00	0.00	0.00	0.00	0.00	1.00
4	7/21	1	2	0.40	0.00	0.00	0.00	0.60	0.00	1.00
4	7/21	3	4	1.00	0.00	0.00	0.00	0.00	0.00	1.00
4	7/22	1	1	1.00	0.00	0.00	0.00	0.00	0.00	1.00
4	7/23	1	1	1.00	0.00	0.00	0.00	0.00	0.00	1.00
4	7/24	1	1	1.00	0.00	0.00	0.00	0.00	0.00	1.00
4	7/25	3	1	0.00	0.00	0.00	0.00	1.00	0.00	1.00
4	7/28	1	1	0.00	0.00	0.00	1.00	0.00	0.00	1.00
4	7/29	1	9	0.00	0.00	0.00	0.91	0.09	0.00	1.00
4	7/29	3	4	0.00	0.00	0.00	0.00	1.00	0.00	1.00
5	7/30	1	2	0.60	0.00	0.00	0.00	0.40	0.00	1.00
5	7/30	3	2	0.00	0.00	0.00	0.00	1.00	0.00	1.00
5	7/31	3	6	0.00	0.00	0.00	0.00	1.00	0.00	1.00
5	8/01	1	19	0.00	0.00	0.00	0.00	1.00	0.00	1.00
5	8/01	3	13	0.00	0.00	0.00	0.00	1.00	0.00	1.00
5	8/02	1	4	0.00	0.00	0.00	0.00	1.00	0.00	1.00
5	8/02	3	10	0.14	0.00	0.00	0.00	0.86	0.00	1.00
5	8/03	1	12	0.00	0.00	0.00	0.22	0.79	0.00	1.00
5	8/03	3	13	0.00	0.00	0.00	0.00	1.00	0.00	1.00
5	8/04	1	20	0.00	0.00	0.00	0.66	0.35	0.00	1.00
5	8/04	3	16	0.00	0.00	0.00	0.00	1.00	0.00	1.00
6	8/05	1	16	0.00	0.00	0.00	0.60	0.40	0.00	1.00
6	8/05	3	3	0.00	0.00	0.00	0.63	0.37	0.00	1.00
6	8/06	1	9	0.00	0.00	0.00	0.00	1.00	0.00	1.00
6	8/06	3	3	0.00	0.00	0.00	0.00	1.00	0.00	1.00
6	8/07	3	4	0.00	0.00	0.00	0.00	1.00	0.00	1.00
6	8/08	1	1	0.00	0.00	0.00	0.00	0.00	1.00	1.00
6	8/08	3	3	0.00	0.00	0.00	0.00	1.00	0.00	1.00
6	8/10	1	2	0.00	0.00	0.00	0.00	1.00	0.00	1.00
6	8/11	3	1	0.00	0.00	0.00	0.00	1.00	0.00	1.00
6	8/14	1	4	0.00	0.00	0.00	0.00	1.00	0.00	1.00
6	8/14	3	4	0.00	0.00	0.00	0.00	1.00	0.00	1.00
6	8/16	1	2	0.00	0.00	0.00	0.00	1.00	0.00	1.00
6	8/16	3	4	0.00	0.00	0.00	0.00	1.00	0.00	1.00
6	8/17	1	1	0.00	0.00	0.00	0.00	1.00	0.00	1.00
6	8/17	3	5	0.00	0.00	0.00	0.00	1.00	0.00	1.00

Table 5C. Escapement sampling catch proportions by report period, date, drift session, and species, for the right bank nearshore counting range, June 11 - August 17, 2000.

Temporal Report Period	Date	Drift Session Number	Catch	Proportion of Catch						
				Chinook	Sockeye	Chum	Pink	Coho	Other	Total
1	6/11	3	1	1.00	0.00	0.00	0.00	0.00	0.00	1.00
1	6/12	1	4	0.18	0.00	0.82	0.00	0.00	0.00	1.00
1	6/12	3	2	0.40	0.00	0.60	0.00	0.00	0.00	1.00
1	6/13	1	4	0.00	0.00	1.00	0.00	0.00	0.00	1.00
1	6/14	1	1	0.00	0.00	1.00	0.00	0.00	0.00	1.00
1	6/14	3	1	0.00	0.00	1.00	0.00	0.00	0.00	1.00
1	6/16	1	1	0.00	0.00	1.00	0.00	0.00	0.00	1.00
1	6/16	3	2	0.00	0.00	1.00	0.00	0.00	0.00	1.00
1	6/17	1	4	0.00	0.00	1.00	0.00	0.00	0.00	1.00
1	6/17	3	6	0.40	0.20	0.40	0.00	0.00	0.00	1.00
1	6/18	3	1	1.00	0.00	0.00	0.00	0.00	0.00	1.00
1	6/19	3	16	0.04	0.00	0.96	0.00	0.00	0.00	1.00
1	6/20	1	7	0.21	0.16	0.63	0.00	0.00	0.00	1.00
1	6/20	2	5	0.50	0.25	0.25	0.00	0.00	0.00	1.00
1	6/20	3	8	0.00	0.13	0.88	0.00	0.00	0.00	1.00
1	6/21	1	2	0.00	0.00	1.00	0.00	0.00	0.00	1.00
1	6/21	2	4	0.18	0.00	0.82	0.00	0.00	0.00	1.00
1	6/21	3	2	0.00	0.00	1.00	0.00	0.00	0.00	1.00
1	6/22	1	8	0.00	0.13	0.88	0.00	0.00	0.00	1.00
1	6/22	2	4	0.18	0.00	0.82	0.00	0.00	0.00	1.00
1	6/22	3	3	0.25	0.38	0.38	0.00	0.00	0.00	1.00
1	6/23	1	4	0.00	0.25	0.75	0.00	0.00	0.00	1.00
1	6/23	2	2	0.00	0.00	1.00	0.00	0.00	0.00	1.00
1	6/24	1	1	0.00	1.00	0.00	0.00	0.00	0.00	1.00
1	6/25	1	7	0.47	0.00	0.53	0.00	0.00	0.00	1.00
1	6/25	2	12	0.06	0.17	0.77	0.00	0.00	0.00	1.00
1	6/25	3	29	0.15	0.04	0.81	0.00	0.00	0.00	1.00
2	6/26	1	19	0.00	0.05	0.95	0.00	0.00	0.00	1.00
2	6/26	2	12	0.25	0.00	0.75	0.00	0.00	0.00	1.00
2	6/26	3	9	0.16	0.60	0.24	0.00	0.00	0.00	1.00
2	6/26	5	1	0.00	0.00	1.00	0.00	0.00	0.00	1.00
2	6/27	1	16	0.00	1.00	0.00	0.00	0.00	0.00	1.00
2	6/27	2	16	0.00	0.75	0.25	0.00	0.00	0.00	1.00
2	6/27	3	12	0.00	0.42	0.58	0.00	0.00	0.00	1.00
3	6/28	1	13	0.05	0.95	0.00	0.00	0.00	0.00	1.00
3	6/28	2	50	0.00	0.76	0.24	0.00	0.00	0.00	1.00
3	6/29	1	13	0.00	1.00	0.00	0.00	0.00	0.00	1.00
3	6/29	2	23	0.00	0.83	0.17	0.00	0.00	0.00	1.00
3	6/29	3	27	0.00	0.82	0.19	0.00	0.00	0.00	1.00
4	6/30	1	115	0.00	0.70	0.29	0.01	0.00	0.00	1.00
4	6/30	2	115	0.00	0.70	0.29	0.01	0.00	0.00	1.00

Table 5C. Escapement sampling catch proportions by report period, date, drift session, and species, for the right bank nearshore counting range, June 11 - August 17, 2000.

Temporal Report Period	Date	Drift Session Number	Catch	Proportion of Catch						
				Chinook	Sockeye	Chum	Pink	Coho	Other	Total
5	7/01	1	10	0.00	0.80	0.20	0.00	0.00	0.00	1.00
5	7/01	2	15	0.05	0.75	0.21	0.00	0.00	0.00	1.00
5	7/01	3	10	0.00	1.00	0.00	0.00	0.00	0.00	1.00
5	7/02	1	9	0.00	0.78	0.11	0.00	0.00	0.11	1.00
5	7/02	2	5	0.00	1.00	0.00	0.00	0.00	0.00	1.00
5	7/02	3	9	0.00	1.00	0.00	0.00	0.00	0.00	1.00
5	7/03	1	7	0.00	1.00	0.00	0.00	0.00	0.00	1.00
5	7/03	2	8	0.09	0.78	0.13	0.00	0.00	0.00	1.00
5	7/03	3	14	0.00	1.00	0.00	0.00	0.00	0.00	1.00
5	7/04	1	12	0.00	1.00	0.00	0.00	0.00	0.00	1.00
5	7/04	2	16	0.04	0.77	0.19	0.00	0.00	0.00	1.00
5	7/04	3	8	0.00	0.63	0.38	0.00	0.00	0.00	1.00
6	7/05	1	1	0.00	1.00	0.00	0.00	0.00	0.00	1.00
6	7/05	2	3	0.00	1.00	0.00	0.00	0.00	0.00	1.00
6	7/05	3	6	0.00	0.50	0.50	0.00	0.00	0.00	1.00
6	7/06	1	1	0.00	0.00	1.00	0.00	0.00	0.00	1.00
6	7/06	2	2	0.00	0.50	0.50	0.00	0.00	0.00	1.00
6	7/06	3	6	0.00	0.50	0.50	0.00	0.00	0.00	1.00
6	7/07	1	4	0.00	1.00	0.00	0.00	0.00	0.00	1.00
6	7/07	3	3	0.25	0.75	0.00	0.00	0.00	0.00	1.00
6	7/08	1	3	0.00	1.00	0.00	0.00	0.00	0.00	1.00
6	7/08	2	2	0.00	1.00	0.00	0.00	0.00	0.00	1.00
6	7/08	3	1	0.00	1.00	0.00	0.00	0.00	0.00	1.00
6	7/09	1	9	0.08	0.69	0.12	0.00	0.00	0.12	1.00
6	7/09	2	1	0.00	0.00	1.00	0.00	0.00	0.00	1.00
6	7/09	3	1	0.00	1.00	0.00	0.00	0.00	0.00	1.00
6	7/10	1	10	0.00	1.00	0.00	0.00	0.00	0.00	1.00
6	7/10	2	6	0.00	1.00	0.00	0.00	0.00	0.00	1.00
6	7/10	3	8	0.00	1.00	0.00	0.00	0.00	0.00	1.00
6	7/11	1	3	0.00	1.00	0.00	0.00	0.00	0.00	1.00
6	7/11	2	4	0.00	1.00	0.00	0.00	0.00	0.00	1.00
6	7/12	1	8	0.00	1.00	0.00	0.00	0.00	0.00	1.00
6	7/12	2	4	0.40	0.60	0.00	0.00	0.00	0.00	1.00
6	7/12	3	15	0.00	0.93	0.07	0.00	0.00	0.00	1.00
7	7/13	1	118	0.01	0.92	0.08	0.00	0.00	0.00	1.00
7	7/13	2	118	0.01	0.92	0.08	0.00	0.00	0.00	1.00
8	7/14	1	8	0.00	1.00	0.00	0.00	0.00	0.00	1.00
8	7/14	2	15	0.00	0.93	0.00	0.00	0.00	0.07	1.00
8	7/14	3	5	0.00	1.00	0.00	0.00	0.00	0.00	1.00
8	7/15	1	7	0.00	0.86	0.14	0.00	0.00	0.00	1.00
8	7/15	3	6	0.00	1.00	0.00	0.00	0.00	0.00	1.00

Table 5C. Escapement sampling catch proportions by report period, date, drift session, and species, for the right bank nearshore counting range, June 11 - August 17, 2000.

Temporal Report Period	Date	Drift Session Number	Catch	Proportion of Catch						
				Chinook	Sockeye	Chum	Pink	Coho	Other	Total
8	7/16	1	4	0.18	0.82	0.00	0.00	0.00	0.00	1.00
8	7/16	3	4	0.18	0.27	0.27	0.00	0.27	0.00	1.00
8	7/17	1	1	0.00	1.00	0.00	0.00	0.00	0.00	1.00
8	7/17	3	3	0.00	1.00	0.00	0.00	0.00	0.00	1.00
8	7/18	1	8	0.00	0.38	0.50	0.00	0.13	0.00	1.00
8	7/18	3	8	0.09	0.78	0.13	0.00	0.00	0.00	1.00
8	7/19	1	3	0.00	0.67	0.33	0.00	0.00	0.00	1.00
8	7/19	3	6	0.00	1.00	0.00	0.00	0.00	0.00	1.00
8	7/21	1	2	0.00	0.50	0.50	0.00	0.00	0.00	1.00
8	7/21	3	2	0.00	1.00	0.00	0.00	0.00	0.00	1.00
8	7/22	1	2	0.00	1.00	0.00	0.00	0.00	0.00	1.00
8	7/23	1	4	0.00	0.75	0.00	0.00	0.25	0.00	1.00
8	7/23	3	1	0.00	1.00	0.00	0.00	0.00	0.00	1.00
8	7/24	1	4	0.00	0.25	0.50	0.00	0.25	0.00	1.00
8	7/25	1	6	0.00	0.43	0.00	0.00	0.57	0.00	1.00
8	7/25	3	1	0.00	1.00	0.00	0.00	0.00	0.00	1.00
9	7/26	1	1	0.00	1.00	0.00	0.00	0.00	0.00	1.00
9	7/26	3	1	0.00	0.00	1.00	0.00	0.00	0.00	1.00
9	7/27	3	2	0.00	1.00	0.00	0.00	0.00	0.00	1.00
9	7/28	1	7	0.00	0.00	0.00	0.69	0.31	0.00	1.00
9	7/28	3	3	0.00	0.00	0.00	0.86	0.14	0.00	1.00
9	7/29	1	6	0.00	0.00	0.00	0.38	0.63	0.00	1.00
9	7/29	3	2	0.00	0.00	0.00	0.75	0.25	0.00	1.00
9	7/30	3	2	0.00	0.00	0.00	0.00	1.00	0.00	1.00
10	7/31	1	125	0.01	0.00	0.01	0.81	0.18	0.00	1.00
10	7/31	3	125	0.01	0.00	0.01	0.81	0.18	0.00	1.00
11	8/01	.	130	0.01	0.00	0.00	0.32	0.67	0.00	1.00
11	8/02	1	10	0.00	0.00	0.00	0.59	0.41	0.00	1.00
11	8/02	3	11	0.00	0.00	0.00	0.00	1.00	0.00	1.00
11	8/03	1	14	0.00	0.00	0.00	0.00	1.00	0.00	1.00
11	8/03	3	22	0.00	0.00	0.00	0.50	0.50	0.00	1.00
12	8/04	1	9	0.00	0.00	0.00	0.29	0.71	0.00	1.00
12	8/04	3	16	0.00	0.00	0.00	0.41	0.59	0.00	1.00
12	8/05	1	9	0.00	0.00	0.00	0.28	0.72	0.00	1.00
12	8/05	3	13	0.00	0.00	0.00	0.37	0.63	0.00	1.00
12	8/06	1	6	0.00	0.00	0.00	0.38	0.63	0.00	1.00
12	8/06	3	1	0.00	0.00	1.00	0.00	0.00	0.00	1.00
12	8/07	3	1	0.00	0.00	0.00	1.00	0.00	0.00	1.00
12	8/08	1	4	0.00	0.00	0.00	0.00	1.00	0.00	1.00
12	8/08	3	1	0.00	0.00	0.00	1.00	0.00	0.00	1.00
12	8/10	1	1	0.00	0.00	0.00	0.00	1.00	0.00	1.00

Table 5C. Escapement sampling catch proportions by report period, date, drift session, and species, for the right bank nearshore counting range, June 11 - August 17, 2000.

Temporal Report Period	Date	Drift Session Number	Catch	Proportion of Catch						
				Chinook	Sockeye	Chum	Pink	Coho	Other	Total
12	8/12	3	1	0.00	0.00	0.00	0.00	1.00	0.00	1.00
12	8/13	1	1	0.00	0.00	0.00	0.00	1.00	0.00	1.00
12	8/13	3	1	0.00	0.00	0.00	0.00	1.00	0.00	1.00
12	8/14	1	1	0.00	0.00	0.00	0.00	1.00	0.00	1.00
12	8/14	3	1	0.00	0.00	0.00	0.00	1.00	0.00	1.00
12	8/15	3	2	0.00	0.00	0.00	0.00	1.00	0.00	1.00
12	8/17	1	1	0.00	0.00	0.00	0.00	1.00	0.00	1.00

Table 5D. Escapement sampling catch proportions by report period, date, drift session, and species, for the right bank offshore counting range, June 12 - August 17, 2000.

Temporal Report Period	Date	Drift Session Number	Catch	Proportion of Catch						
				Chinook	Sockeye	Chum	Pink	Coho	Other	Total
1	6/12	3	1	1.00	0.00	0.00	0.00	0.00	0.00	1.00
1	6/13	1	2	0.00	0.00	1.00	0.00	0.00	0.00	1.00
1	6/13	3	2	0.00	0.00	1.00	0.00	0.00	0.00	1.00
1	6/14	1	1	1.00	0.00	0.00	0.00	0.00	0.00	1.00
1	6/14	3	1	1.00	0.00	0.00	0.00	0.00	0.00	1.00
1	6/15	3	1	1.00	0.00	0.00	0.00	0.00	0.00	1.00
1	6/16	3	1	1.00	0.00	0.00	0.00	0.00	0.00	1.00
1	6/19	3	6	0.12	0.00	0.88	0.00	0.00	0.00	1.00
1	6/20	2	2	0.40	0.00	0.60	0.00	0.00	0.00	1.00
1	6/20	3	2	1.00	0.00	0.00	0.00	0.00	0.00	1.00
1	6/21	1	2	0.40	0.00	0.60	0.00	0.00	0.00	1.00
1	6/21	2	3	0.00	0.00	1.00	0.00	0.00	0.00	1.00
1	6/21	3	4	0.00	0.25	0.75	0.00	0.00	0.00	1.00
1	6/22	2	3	0.00	0.00	1.00	0.00	0.00	0.00	1.00
1	6/23	2	1	1.00	0.00	0.00	0.00	0.00	0.00	1.00
1	6/24	2	1	1.00	0.00	0.00	0.00	0.00	0.00	1.00
1	6/25	1	9	0.35	0.00	0.65	0.00	0.00	0.00	1.00
1	6/25	2	22	0.32	0.00	0.68	0.00	0.00	0.00	1.00
1	6/25	3	14	0.47	0.00	0.53	0.00	0.00	0.00	1.00
1	6/26	1	10	0.39	0.00	0.61	0.00	0.00	0.00	1.00
1	6/26	2	6	1.00	0.00	0.00	0.00	0.00	0.00	1.00
1	6/26	3	8	0.09	0.00	0.91	0.00	0.00	0.00	1.00
1	6/26	5	12	0.50	0.00	0.50	0.00	0.00	0.00	1.00
2	6/27	1	3	0.00	1.00	0.00	0.00	0.00	0.00	1.00
2	6/27	2	3	0.57	0.43	0.00	0.00	0.00	0.00	1.00
2	6/27	3	2	1.00	0.00	0.00	0.00	0.00	0.00	1.00
2	6/28	1	2	0.40	0.60	0.00	0.00	0.00	0.00	1.00
2	6/28	2	3	0.25	0.00	0.75	0.00	0.00	0.00	1.00
2	6/28	3	10	0.40	0.00	0.60	0.00	0.00	0.00	1.00
2	6/29	1	5	0.50	0.00	0.50	0.00	0.00	0.00	1.00
2	6/29	2	3	0.00	0.67	0.33	0.00	0.00	0.00	1.00
2	6/29	3	11	0.06	0.38	0.56	0.00	0.00	0.00	1.00
2	6/30	1	2	0.00	1.00	0.00	0.00	0.00	0.00	1.00
2	6/30	2	8	0.53	0.47	0.00	0.00	0.00	0.00	1.00
2	6/30	3	15	0.31	0.15	0.54	0.00	0.00	0.00	1.00
2	7/01	1	7	0.33	0.67	0.00	0.00	0.00	0.00	1.00
2	7/01	2	5	0.50	0.25	0.25	0.00	0.00	0.00	1.00
2	7/01	3	8	0.29	0.57	0.14	0.00	0.00	0.00	1.00
2	7/02	1	2	0.40	0.60	0.00	0.00	0.00	0.00	1.00
2	7/02	3	2	0.00	0.50	0.50	0.00	0.00	0.00	1.00
2	7/03	1	2	0.40	0.60	0.00	0.00	0.00	0.00	1.00

Table 5D. Escapement sampling catch proportions by report period, date, drift session, and species, for the right bank offshore counting range, June 12 - August 17, 2000.

Temporal Report Period	Date	Drift Session Number	Catch	Proportion of Catch						
				Chinook	Sockeye	Chum	Pink	Coho	Other	Total
2	7/03	2	4	0.67	0.33	0.00	0.00	0.00	0.00	1.00
2	7/03	3	4	0.18	0.82	0.00	0.00	0.00	0.00	1.00
3	7/04	1	3	0.57	0.43	0.00	0.00	0.00	0.00	1.00
3	7/04	3	4	0.18	0.55	0.27	0.00	0.00	0.00	1.00
3	7/05	1	4	0.40	0.30	0.30	0.00	0.00	0.00	1.00
3	7/05	2	4	1.00	0.00	0.00	0.00	0.00	0.00	1.00
3	7/05	3	3	0.57	0.43	0.00	0.00	0.00	0.00	1.00
3	7/06	1	4	0.00	1.00	0.00	0.00	0.00	0.00	1.00
3	7/06	3	2	1.00	0.00	0.00	0.00	0.00	0.00	1.00
3	7/07	1	2	0.40	0.60	0.00	0.00	0.00	0.00	1.00
3	7/07	3	3	0.57	0.00	0.43	0.00	0.00	0.00	1.00
3	7/08	3	4	0.00	1.00	0.00	0.00	0.00	0.00	1.00
3	7/09	3	1	0.00	1.00	0.00	0.00	0.00	0.00	1.00
3	7/10	1	3	0.00	0.67	0.33	0.00	0.00	0.00	1.00
3	7/10	2	3	0.25	0.38	0.38	0.00	0.00	0.00	1.00
3	7/10	3	1	0.00	0.00	1.00	0.00	0.00	0.00	1.00
3	7/11	1	2	0.00	1.00	0.00	0.00	0.00	0.00	1.00
3	7/12	3	1	0.00	1.00	0.00	0.00	0.00	0.00	1.00
3	7/13	1	8	0.00	1.00	0.00	0.00	0.00	0.00	1.00
3	7/13	2	11	0.00	0.64	0.36	0.00	0.00	0.00	1.00
3	7/13	3	2	1.00	0.00	0.00	0.00	0.00	0.00	1.00
3	7/14	1	6	0.25	0.56	0.19	0.00	0.00	0.00	1.00
3	7/14	2	5	0.00	0.80	0.20	0.00	0.00	0.00	1.00
3	7/14	3	4	0.00	0.75	0.25	0.00	0.00	0.00	1.00
3	7/15	1	1	1.00	0.00	0.00	0.00	0.00	0.00	1.00
3	7/15	3	4	0.00	0.25	0.50	0.00	0.25	0.00	1.00
3	7/16	1	4	0.00	1.00	0.00	0.00	0.00	0.00	1.00
3	7/16	3	5	0.31	0.69	0.00	0.00	0.00	0.00	1.00
3	7/17	1	1	0.00	1.00	0.00	0.00	0.00	0.00	1.00
3	7/17	3	3	0.00	0.33	0.67	0.00	0.00	0.00	1.00
3	7/18	1	1	0.00	0.00	1.00	0.00	0.00	0.00	1.00
3	7/21	3	1	0.00	1.00	0.00	0.00	0.00	0.00	1.00
4	7/23	1	1	0.00	1.00	0.00	0.00	0.00	0.00	1.00
4	7/25	3	1	0.00	1.00	0.00	0.00	0.00	0.00	1.00
4	7/28	1	4	0.00	0.00	0.43	0.43	0.14	0.00	1.00
4	7/29	3	3	0.00	0.00	0.00	0.00	1.00	0.00	1.00
4	7/30	1	2	0.00	0.00	0.00	0.00	1.00	0.00	1.00
4	7/30	3	5	0.00	0.00	0.00	0.67	0.33	0.00	1.00
4	7/31	1	4	0.00	0.00	0.00	0.50	0.50	0.00	1.00
4	7/31	3	5	0.00	0.00	0.20	0.40	0.40	0.00	1.00
4	8/01	1	8	0.00	0.00	0.00	0.30	0.70	0.00	1.00

Table 5D. Escapement sampling catch proportions by report period, date, drift session, and species, for the right bank offshore counting range, June 12 - August 17, 2000.

Temporal Report Period	Date	Drift Session Number	Catch	Proportion of Catch						
				Chinook	Sockeye	Chum	Pink	Coho	Other	Total
4	8/01	3	10	0.00	0.00	0.00	0.00	1.00	0.00	1.00
4	8/02	1	5	0.00	0.00	0.00	0.00	1.00	0.00	1.00
4	8/02	3	8	0.00	0.00	0.00	0.30	0.70	0.00	1.00
4	8/03	1	11	0.00	0.00	0.00	0.00	1.00	0.00	1.00
4	8/03	3	12	0.00	0.00	0.00	0.00	1.00	0.00	1.00
4	8/04	1	6	0.00	0.00	0.00	0.00	1.00	0.00	1.00
4	8/04	3	8	0.00	0.00	0.00	0.32	0.68	0.00	1.00
4	8/05	1	4	0.00	0.00	0.00	0.77	0.23	0.00	1.00
4	8/05	3	7	0.00	0.00	0.00	0.00	1.00	0.00	1.00
5	8/06	1	1	0.00	0.00	0.00	0.00	1.00	0.00	1.00
5	8/06	3	4	0.00	0.00	0.00	0.00	1.00	0.00	1.00
5	8/07	3	4	0.00	0.00	0.00	0.00	1.00	0.00	1.00
5	8/09	3	2	0.00	0.00	0.00	0.00	1.00	0.00	1.00
5	8/12	1	2	0.00	0.00	0.00	0.00	1.00	0.00	1.00
5	8/13	1	2	0.00	0.00	0.00	0.00	1.00	0.00	1.00
5	8/14	3	1	0.00	0.00	0.00	0.00	1.00	0.00	1.00
5	8/15	3	1	0.00	0.00	0.00	0.00	1.00	0.00	1.00
5	8/16	3	4	0.00	0.00	0.00	0.00	1.00	0.00	1.00
9	7/27	3	2	0.00	1.00	0.00	0.00	0.00	0.00	1.00
9	7/28	1	7	0.00	0.00	0.00	0.69	0.31	0.00	1.00
9	7/28	3	3	0.00	0.00	0.00	0.86	0.14	0.00	1.00
9	7/29	1	6	0.00	0.00	0.00	0.38	0.63	0.00	1.00
9	7/29	3	2	0.00	0.00	0.00	0.75	0.25	0.00	1.00
9	7/30	3	2	0.00	0.00	0.00	0.00	1.00	0.00	1.00
10	7/31	1	125	0.01	0.00	0.01	0.81	0.18	0.00	1.00
10	7/31	3	125	0.01	0.00	0.01	0.81	0.18	0.00	1.00
11	8/01	.	130	0.01	0.00	0.00	0.32	0.67	0.00	1.00
11	8/02	1	10	0.00	0.00	0.00	0.59	0.41	0.00	1.00
11	8/02	3	11	0.00	0.00	0.00	0.00	1.00	0.00	1.00
11	8/03	1	14	0.00	0.00	0.00	0.00	1.00	0.00	1.00
11	8/03	3	22	0.00	0.00	0.00	0.50	0.50	0.00	1.00
12	8/04	1	9	0.00	0.00	0.00	0.29	0.71	0.00	1.00
12	8/04	3	16	0.00	0.00	0.00	0.41	0.59	0.00	1.00
12	8/05	1	9	0.00	0.00	0.00	0.28	0.72	0.00	1.00
12	8/05	3	13	0.00	0.00	0.00	0.37	0.63	0.00	1.00
12	8/06	1	6	0.00	0.00	0.00	0.38	0.63	0.00	1.00
12	8/06	3	1	0.00	0.00	1.00	0.00	0.00	0.00	1.00
12	8/07	3	1	0.00	0.00	0.00	1.00	0.00	0.00	1.00
12	8/08	1	4	0.00	0.00	0.00	0.00	1.00	0.00	1.00
12	8/08	3	1	0.00	0.00	0.00	1.00	0.00	0.00	1.00
12	8/10	1	1	0.00	0.00	0.00	0.00	1.00	0.00	1.00

Table 5D. Escapement sampling catch proportions by report period, date, drift session, and species, for the right bank offshore counting range, June 12 - August 17, 2000.

Temporal Report Period	Date	Drift Session Number	Catch	Proportion of Catch						
				Chinook	Sockeye	Chum	Pink	Coho	Other	Total
12	8/12	3	1	0.00	0.00	0.00	0.00	1.00	0.00	1.00
12	8/13	1	1	0.00	0.00	0.00	0.00	1.00	0.00	1.00
12	8/13	3	1	0.00	0.00	0.00	0.00	1.00	0.00	1.00
12	8/14	1	1	0.00	0.00	0.00	0.00	1.00	0.00	1.00
12	8/14	3	1	0.00	0.00	0.00	0.00	1.00	0.00	1.00
12	8/15	3	2	0.00	0.00	0.00	0.00	1.00	0.00	1.00
12	8/17	1	1	0.00	0.00	0.00	0.00	1.00	0.00	1.00

Table 6. Age, sex, and size (length in mm and weight in kg) composition of sockeye salmon escapement, Nushagak River, 2000.

	Age Group						
	0.3	1.2	1.3	2.2	1.4	2.3	Total
Males		81,112	127,168	2,750	1,375	4,124	216,529
Percent		20.10	31.52	0.68	0.34	1.02	53.66
Sample Size		118	185	4	2	6	315
Mean Length		515	570	512	608	594	549
Std. Error		4	3	30	4	15	2
Sample Size		118	181	4	2	6	311
Females	687	62,553	114,107	2,062	4,812	2,750	186,971
Percent	0.17	15.50	28.28	0.51	1.19	0.68	46.34
Sample Size	1	91	166	3	7	4	272
Mean Length	514	487	548	492	575	572	528
Std. Error		4	2	24	5	6	2
Sample Size	1	91	166	3	7	4	272
Both Sexes	687	143,665	241,275	4,812	6,187	6,874	403,500
Percent	0.17	35.60	59.8	1.19	1.53	1.70	100.00
Sample Size	1	209	351	7	9	10	587
Mean Length	514	503	560	503	583	585	539
Std. Error		3	2	20	4	9	1
Sample Size	1	209	347	7	9	10	583

Table 7. Age and size (length in mm and weight in kg) composition of chinook salmon escapement, Nushagak River, 2000.

	Age Group					
	1.1	1.2	1.3	1.4	1.5	Total
Both Sexes	212	12,821	17,483	24,266	1,590	56,372
Percent	0.38	22.74	31.01	43.05	2.82	100.00
Sample Size	2	121	165	229	15	532
Mean Length	469	535	701	844	905	730
Std. Error	10	5	7	5	13	3
Sample Size	2	120	164	227	14	527

Table 8. Age, sex, and size (length in mm and weight in kg) composition of chum salmon escapement, Nushagak River, 2000.

	Age Group			
	0.3	0.4	0.5	Total
Males	1,703	40,864	28,946	71,513
Percent	1.21	28.92	20.48	50.60
Sample Size	1	24	17	42
Mean Length	592	592	635	609
Std. Error		6	8	5
Sample Size	1	24	17	42
Females	1,703	40,865	27,243	69,811
Percent	1.21	28.92	19.28	49.40
Sample Size	1	24	16	41
Mean Length	532	559	600	574
Std. Error		9	10	6
Sample Size	1	24	16	41
Both Sexes	3,406	81,729	56,189	141,324
Percent	2.41	57.83	39.76	100.00
Sample Size	2	48	33	83
Mean Length	562	575	618	592
Std. Error		5	6	4
Sample Size	2	48	33	83

Table 9. Age, sex, and size (length in mm and weight in kg) composition of coho salmon escapement, Nushagak River, 2000.

	Age Group			
	1.1	2.1	3.1	Total
Males	6,564	88,977	729	96,270
Percent	3.80	51.48	0.42	55.70
Sample Size	9	122	1	132
Mean Length	547	555	635	555
Std. Error	9	5		4
Sample Size	9	122	1	132
Females	8,023	66,368	2,188	76,579
Percent	4.64	38.40	1.27	44.30
Sample Size	11	91	3	105
Mean Length	550	567	579	565
Std. Error	16	4	25	4
Sample Size	11	91	3	105
Both Sexes	14,587	155,345	2,917	172,849
Percent	8.44	89.87	1.69	100.00
Sample Size	20	213	4	237
Mean Length	549	560	593	559
Std. Error	10	3	25	3
Sample Size	20	213	4	237

Table 10. Average air and water temperatures at the Nushagak River sonar project during June, July, and August, 1986-2000.

Year	Average Air Temperature (°C)			Average Water Temperature (°C)		
	June	July	August	June	July	August
1986	11.4	12.7	11.0	14.3	12.5	10.0
1987	10.5	14.2	13.1	9.5	12.1	13.1
1988	12.5	14.7	12.6	11.1	14.8	13.7
1989	11.5	14.0	14.8	10.4	14.9	15.6
1990	12.1	13.7	12.3	11.7	14.8	14.1
1991	12.1	14.1	13.1	11.6	14.7	14.3
1992	12.3	12.8	[a]	10.7	11.7	[a]
1993	11.7	14.0	11.9	12.5	15.4	14.3
1994	11.3	11.8	11.7	12.8	12.8	14.6
1995	12.3	13.3	11.0	10.5	14.5	13.0
1996	11.2	12.8	11.5	12.0	14.3	13.2
1997	13.6	15.0	12.5	14.3	16.6	14.6
1998	10.7	12.9	11.4	9.1	13.2	13.2
1999	11.6	14.1	11.3	11.1	13.6	13.1
1986-99 Min	10.5	11.8	11.0	9.1	11.7	10.0
1986-99 Max	13.6	15.0	14.8	14.3	16.6	15.6
1986-99 Average	11.8	13.6	12.2	11.5	14.0	13.6
2000	11.9	12.7	13.0	11.2	13.7	13.3

[a] Project not operated in August, 1992.

Table 11. Sockeye salmon escapement estimates and average escapement percentage by date, Nushagak River, 1980-2000.

	Year																				Average Percent[a]	
Date	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	Daily	Cum.
06/04					149									0								0.0	0.0
06/05					457		0					74		0								0.0	0.0
06/06					574		0	0		2	11	126		0								0.0	0.1
06/07					591		3	0	2	4	11	94		0								0.0	0.1
06/08					622		2	0	3	3	32	80		0		36						0.0	0.1
06/09					624		3	0	11	14	145	74	0	0	5	96	110	395	222	5		0.0	0.1
06/10					450		15	0	25	19	33	114	0	0	6	140	199	440	553	8	73	0.0	0.1
06/11			0	253	385	18	6	0	18	9	23	79	0	0	7	64	117	319	261	19	46	0.0	0.2
06/12		243	0	335	433	5	15	0	5	23	15	87	0	0	5	68	142	278	165	17	67	0.0	0.2
06/13		457	0	454	493	42	71	0	6	25	52	75	0	0	4	104	153	516	127	20	245	0.0	0.2
06/14		420	120	282	787	48	76	0	4	23	37	71	0	0	12	202	165	521	108	14	86	0.0	0.3
06/15		323	252	437	1,440	7	32	0	106	25	149	866	0	125	10	995	172	589	115	29	54	0.1	0.3
06/16		573	239	297	1,528	6	37	0	185	24	117	2,360	0	1,902	442	606	79	1,384	128	268	261	0.1	0.5
06/17		1,514	614	282	3,478	4	16	332	71	78	51	836	0	3,260	951	522	239	1,300	60	221	386	0.1	0.6
06/18		972	678	306	1,380	8	14	540	50	114	43	770	0	1,119	1,239	729	3,639	910	152	110	140	0.1	0.7
06/19		893	481	292	2,519	82	112	301	41	21	47	443	915	491	2,661	798	901	1,866	330	45	453	0.2	0.9
06/20		1,247	338	790	1,544	3,124	141	217	65	64	0	677	1,132	456	1,218	437	1,078	1,962	6,384	32	724	0.3	1.2
06/21		5,134	0	606	1,019	2,616	88	115	27	361	0	860	1,811	300	647	377	3,912	1,001	3,190	35	405	0.3	1.4
06/22	352	3,426	7,133	3,385	3,030	915	119	145	28	1,082	995	1,457	1,594	224	1,830	301	5,798	2,631	3,751	33	264	0.5	1.9
06/23	476	2,490	23,182	1,653	3,475	1,698	229	154	50	1,372	5,297	3,088	951	16,939	1,415	443	8,927	2,645	2,625	43	124	0.6	2.6
06/24	528	239	39,230	5,455	11,295	369	270	740	54	3,460	1,960	10,144	999	66,906	2,703	1,430	9,896	3,759	3,976	2,405	94	1.6	4.2
06/25	737	0	7,133	2,890	83,644	229	1,091	3,275	8,697	15,260	1,009	11,286	1,379	24,187	2,625	9,495	18,041	7,204	8,092	2,431	1,968	2.1	6.3
06/26	1,339	0	0	3,749	54,222	419	3,392	4,456	19,752	36,432	320	10,463	20,836	20,082	2,768	24,849	22,147	16,643	6,141	666	16,742	2.7	9.0
06/27	1,670	195	8,916	4,125	48,318	421	4,282	2,145	15,167	24,731	355	8,926	35,478	71,399	3,354	36,906	16,513	16,883	6,956	539	4,247	3.2	12.3
06/28	268	1,701	21,398	9,926	14,201	305	1,583	4,039	16,237	14,893	1,540	11,075	32,522	82,675	2,779	9,701	21,166	8,316	7,854	3,309	45,905	2.7	14.9
06/29	111	3,287	14,266	4,826	18,904	908	853	16,046	5,819	3,495	1,935	29,203	14,576	36,278	1,976	8,465	9,786	10,127	7,793	2,233	70,221	2.0	16.9
06/30	3,688	6,143	16,049	7,235	44,465	1,400	946	47,423	2,392	37,613	1,604	15,961	18,597	50,751	2,089	12,221	14,900	13,695	10,455	4,014	46,978	3.3	20.2
07/01	25,625	76,193	41,014	9,534	31,261	53,282	5,874	66,559	1,466	34,028	9,858	62,496	12,759	37,845	3,143	16,971	19,093	25,312	6,262	9,217	30,858	5.8	26.1
07/02	104,306	41,641	37,447	9,224	58,296	35,792	9,468	84,275	1,708	57,488	85,624	30,292	5,701	21,457	12,185	8,510	21,304	24,776	10,675	42,891	13,997	6.4	32.5
07/03	240,530	52,501	35,664	4,781	22,133	18,234	5,414	39,477	4,345	55,416	55,341	88,577	3,239	76,757	41,736	10,376	40,175	13,902	37,050	44,770	13,110	7.2	39.7
07/04	294,491	82,221	32,098	8,079	8,840	13,382	18,067	19,411	45,767	106,391	23,207	100,822	19,927	66,723	51,759	7,911	27,231	17,175	52,668	33,122	15,431	8.4	48.1
07/05	222,282	223,247	30,314	28,917	37,884	13,210	34,648	9,143	42,967	15,922	8,977	35,766	22,121	44,078	23,759	3,097	29,537	6,006	116,872	35,790	6,656	8.1	56.2
07/06	97,701	150,089	37,447	10,492	55,571	16,440	44,969	5,523	10,097	14,731	34,852	4,094	63,871	25,266	22,208	6,548	19,431	14,090	72,184	29,267	4,479	6.0	62.3
07/07	54,034	25,267	23,182	7,959	15,876	12,124	57,760	5,930	11,032	19,106	314,041	2,228	71,122	14,559	22,030	12,049	24,920	14,301	20,985	24,132	2,530	6.2	68.5
07/08	23,484	22,271	24,965	8,792	14,680	21,881	46,419	18,647	11,348	12,635	56,812	1,641	36,090	12,452	18,918	48,281	17,535	12,874	25,902	9,572	2,535	4.6	73.1
07/09	9,973	22,068	5,350	6,926	14,618	19,258	41,217	22,710	52,969	5,812	10,124	1,306	12,242	6,289	30,097	24,353	14,260	14,221	12,095	6,973	3,630	3.6	76.7
07/10	9,223	42,360	7,133	5,818	15,366	10,439	104,907	2,918	57,393	9,242	4,864	1,809	9,580	4,837	128,121	5,606	11,098	12,039	4,647	5,081	5,121	4.2	80.9
07/11	4,603	22,629	14,266	3,063	5,264	6,703	144,139	1,025	57,062	3,442	2,752	3,342	89,913	2,764	22,288	8,590	9,794	6,161	7,003	5,816	2,581	3.6	84.5
07/12	4,355	12,296	8,916	3,059	3,175	8,538	125,352	1,370	85,645	12,543	7,528	4,810	173,110	2,678	11,051	3,930	11,307	20,575	3,664	4,873	5,086	4.4	88.9
07/13	4,519	6,774	12,482	2,338	1,465	5,459	68,323	1,095	11,291	4,313	6,579	2,073	17,703	2,725	8,748	1,780	14,442	26,312	1,317	2,011	41,229	1.9	90.8
07/14	5,539	3,517	5,350	3,055	909	11,785	20,310	899	2,097	4,903	3,799	2,984	8,591	3,239	6,121	1,231	10,546	15,542	1,114	2,914	27,279	1.2	92.0
07/15	3,121	1,213	5,350	3,180	691	22,640	7,280	2,286	857	2,713	3,165	2,185	4,679	2,161	2,858	1,088	7,112	9,620	834	5,174	4,694	1.0	93.0
07/16	2,891	343	7,133	3,018	803	12,476	17,099	2,044	888	1,946	2,129	3,716	3,525	2,436	3,451	1,453	7,542	4,630	898	3,622	4,880	0.9	93.9
07/17	9,681		10,699	1,546	1,912	8,491	8,942	1,932	1,891	2,692	1,953	6,206	2,895	3,824	14,088	1,230	3,874	9,264	435	2,784	3,903	1.0	94.9
07/18	7,883		7,133	1,739	532	7,469	3,798	2,316	1,877	4,090	1,319	7,250	1,559	1,891	11,342	656	14,891	6,472	275	3,367	3,771	0.9	95.8
07/19	920		16,049	1,688	393	2,708	4,005	2,121	816	1,477	845	7,552	1,417	1,803	5,247	632	18,421	4,085	309	2,449	2,562	0.8	96.6
07/20	1,031		5,350	1,823	671	928	2,255	2,920	1,532	1,223	883	3,914	1,433	908	4,015	607	7,282	2,419	577	2,437	2,157	0.5	97.1
07/21	1,084		7,133	271	966	1,616	1,820	5,435	2,286	1,294	1,206	2,408	2,016	776	3,419	443	3,877	2,515	758	2,770	2,294	0.4	97.5
07/22	0		5,350	280	733	1,484	878	2,197	2,219	376	2,785	3,854	625	554	2,741	753	7,491	2,303	1,143	3,193	1,812	0.4	98.0
07/23	0		7,133	326	124	1,226	2,273	1,082	442	387	3,579	2,516		501	3,081	522	7,905	4,245	412	2,540	1,986	0.4	98.4
07/24	0		7,133	343	368	395	3,589	1,312	639	413	3,278	575		455	2,797	869	7,182	3,084	260	2,033	2,332	0.4	98.7
07/25	0		1,783	424	338	1,402	2,015	886	911	277	483	16		363	6,579	1,579	534	1,861	289	1,574	1,421	0.2	99.0
07/26	0		1,783	398	286	898	1,370	896	275	148	572	15		44	6,159	1,201	485	1,895	616	1,933	238	0.2	99.2
07/27	0		0	395	0	658	2,557	832	254	75	600	16		35	6,420	197	861	1,157	429	1,183	291	0.2	99.3
07/28	0		0	422	0	258	329	530	208	90	788	62		23	2,058	360	348	1,340	855	864	1,202	0.1	99.4
07/29	0		0	429	0	42	847	400	163	84	1,204	224		27	2,440	56	454	1,126	829	343	1,027	0.1	99.5
07/30	0		0	275	0	36	182	462	343	177	1,220	102		28	186	70	1,024	4	536	260	827	0.1	99.6
07/31	0		0	0	0	47	80	289	645	502	763	33		21	286	53	259	6	631	270	183	0.0	99.6
08/01	0		0	0	0	37	205	276	410	128	130	32		45	226	34	317	5	866	187	1,035	0.0	99.7
08/02	0		0	0	0	36	248	311	0	38	138	61		35	112	62	868	4	911	34	1,071	0.0	99.7
08/03	0		0	0	0	42	0	248	0	45	735	25		18	77	46	38	10	730	26	1,031	0.0	99.7
08/04	0		0	0	0	142	663	23	0	29	188	21		33	71	30	695	8	2,009	212	769	0.0	99.8
08/05	0		0	0	0	0	322	61	285	25	1,175	13		45	121	315	1,317	4	774	328	9	0.0	99.8
08/06	0		0	0	0	0	178	103	294	35	2,993	26		23	83	253	720	5	1,052	170		0.1	99.9
08/07			0	0	0	0	69	50	355	38	1,788	13		181	106	78	386	5	558	70		0.0	99.9

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Table 12. Chinook salmon escapement estimates and average escapement percentage by date, Nushagak River, 1980-2000.

	Year																				Average Percent[a]	
Date	1980	1981	1982	1983	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	Daily	Cum.
07/28	0	0	0	633	104	120	90	111	372	531	62		19	74	24	122	46	342	237	198	0.2	99.5
07/29	0	0	0	644	29	0	68	79	327	37	244		16	47	31	133	42	386	127	466	0.1	99.7
07/30	0	0	0	413	17	182	77	142	517	22	207		20	29	33	173	0	254	76	72	0.1	99.8
07/31	0	0	0	957	27	60	51	87	1,098	12	47		9	16	28	70	0	275	57	136	0.2	100.0
08/01	0	0	0	660	26	50	44	95	474	0	34		11	18	15	31	0	368	62	339		
08/02	0	0	0	790	18	0	61	0	205	46	64		16	25	36	42	0	388	16	370		
08/03	0	0	0	734	24	0	47	436	362	0	31		17	9	20	36	0	1,365	25	323		
08/04	0	0	0	658	62	787	0	0	170	0	23		25	10	10	16	0	1,289	80	156		
08/05	0	0	0	55	0	381	0	0	59	0	18		33	0	96	28	0	297	84	0		
08/06	0	0	0	89	0	204	0	0	57	0	28		13	0	103	21	0	386	23			
08/07		0	0	83	0	87	0	0	95	0	12		101	0	43	18	0	276	8			
08/08		0	0	211	0	72	0	0	0	0	8		48	0	12	10	0	91	5			
08/09		0	0	232	0	66	0	0	0	0	11		17	0	14	16	0	48	4			
08/10		0	0	0	0	135	0	0	0	0	27		0	0	17	19	0	2	7			
08/11			0	0	0	0	0	0	0	0	28		0	0	25	3	0	1	15			
08/12			0	0	0	0	0	0	0	0	28		0	0	9	2	0	2	7			
08/13			0	0	0	0	0	0	0	0	14		0	0	29	1	0	2	8			
08/14			0	0	0	0	0	0	0	0	9		0	0	15	1	0	1	6			
08/15			0	0	0	0	0	0	0	0	8		0	0	6	0	0	1	3			
08/16			0	0	0	0	0	0	0	0	16		0	0	7	0	0	4	6			
08/17			0	0	0	0	0	0	0	0	7		0	0	7	0	0	17	4			
08/18			0		0	0	0	0	0	0	7		0	0	11	0	0	8	5			
08/19					0			0	0	0	3		0	0	7	0	0	2	4			
08/20					0			0	0	0	4		0	0	0	0	0	1	4			
08/21					0			0	0	0	1		0	0	0	0	0	1	3			
08/22								0	0	0			0	0	0	0	0	0	4			
08/23								0	0	0			0	0	0	0	0	0	6			
08/24									0	0			0	0	0	0	0	0	4			
08/25									0	0			0	0	0	0	0	0	1			
Total	62,780	130,252	126,438	103,767	98,991	43,434	84,309	56,905	78,302	63,955	104,351	82,848	97,812	95,954	85,622	52,127	40,705	117,495	62,331	56,372		

[a] Average percent of total annual escapement for 1986 - 1999, June 6 through July 31.

Table 13. Chum salmon escapement estimates and average escapement percentage by date, Nushagak River, 1980-2000.

	Year																				Average Percent[a]	
Date	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	Daily	Cum.
06/04					100									187								0.1	0.1
06/05					305		0					110		195								0.1	0.1
06/06					383		1	9		2	35	183		664								0.1	0.2
06/07					394		8	19	65	128	36	144		937								0.1	0.3
06/08					415		5	22	94	149	88	124		627		88						0.1	0.3
06/09					416		6	152	205	103	322	119	253	477	362	258	1,547	68	139	29		0.1	0.5
06/10					300		37	150	545	112	94	170	275	304	255	324	2,312	74	345	61	529	0.2	0.6
06/11			0	0	257	3	8	63	501	11	66	124	178	393	367	175	1,333	45	197	177	410	0.1	0.7
06/12		364	0	0	289	0	25	127	112	31	51	135	245	281	442	186	1,589	39	130	139	552	0.1	0.8
06/13		686	0	0	328	9	139	68	123	44	149	117	2,377	170	318	293	1,992	74	112	136	1,743	0.2	1.0
06/14		630	100	0	524	17	166	53	85	106	104	112	1,719	176	183	595	1,958	88	84	91	665	0.2	1.1
06/15		485	210	0	960	6	79	57	2,650	71	2,191	1,211	993	170	213	3,125	2,023	412	88	217	369	0.4	1.5
06/16		859	199	0	1,018	4	80	37	5,774	127	1,691	3,354	2,308	1,878	5,901	1,884	968	1,034	107	1,876	2,236	0.7	2.1
06/17		330	512	0	331	2	40	786	1,839	127	747	1,169	6,097	2,786	20,237	1,472	3,508	587	46	1,642	4,290	0.8	2.9
06/18		212	565	0	1,380	1	25	1,313	1,241	180	618	1,024	7,379	1,213	6,514	1,757	21,909	426	134	838	1,117	1.0	3.9
06/19		162	401	0	504	66	245	751	924	48	665	627	2,014	659	15,354	1,967	12,684	609	388	314	3,804	0.8	4.7
06/20		95	282	0	309	6,283	220	553	1,579	103	1,627	941	2,552	605	7,312	1,275	10,515	713	8,457	200	6,188	0.9	5.6
06/21		391	3,895	487	29	3,209	126	274	764	1,377	4,766	1,190	4,256	422	4,009	1,111	11,063	222	3,504	243	3,382	0.9	6.5
06/22	704	3,084	3,895	2,718	19	1,414	235	357	666	4,053	61,168	2,159	3,587	336	27,174	818	14,955	597	12,299	221	2,326	2.4	8.9
06/23	953	2,845	1,948	1,327	2,824	2,846	509	394	1,181	5,035	13,549	4,678	2,177	8,003	18,933	1,168	7,758	501	12,064	279	1,054	1.6	10.6
06/24	2,072	239	7,790	4,380	7,530	703	757	8,520	1,549	12,896	5,180	37,121	2,302	21,400	16,333	3,151	8,448	508	9,284	14,887	889	3.3	13.8
06/25	2,890	1,275	5,194	2,321	13,207	310	6,649	24,484	37,375	13,309	2,668	13,765	2,926	7,538	15,897	22,478	22,596	1,401	15,723	7,766	15,690	4.9	18.7
06/26	5,252	2,106	14,282	2,939	26,651	531	7,461	9,730	24,871	37,152	787	12,980	70,205	5,265	17,462	50,089	7,325	3,059	12,443	2,396	14,334	6.2	25.0
06/27	6,550	715	12,335	3,235	23,750	1,354	9,871	4,533	6,206	19,834	942	10,142	30,632	23,140	9,175	18,394	13,954	2,381	14,011	2,154	3,637	4.3	29.2
06/28	5,001	454	10,387	7,783	67,031	1,306	12,630	8,737	6,181	11,501	152	12,072	16,697	23,874	7,725	7,509	15,147	1,335	5,526	7,766	11,077	4.6	33.8
06/29	2,081	876	1,948	3,784	89,225	347	6,843	2,225	1,784	12,653	190	20,662	12,895	5,421	5,530	6,426	2,515	1,254	5,588	3,275	17,056	3.2	37.1
06/30	1,229	1,117	7,790	5,673	17,242	541	7,480	16,250	750	14,558	137	11,025	15,892	9,468	5,566	8,561	4,155	4,876	7,341	5,508	18,172	3.4	40.4
07/01	3,750	2,432	9,738	1,733	10,212	18,749	2,843	26,278	551	17,800	37,878	5,882	11,160	10,034	7,442	10,535	7,901	10,755	3,962	29,784	4,925	5.3	45.8
07/02	8,204	9,497	7,141	1,677	8,093	27,024	4,135	12,608	556	23,527	28,403	4,831	9,766	7,751	46,488	6,408	8,992	8,532	6,624	58,420	2,261	6.1	51.8
07/03	27,026	6,655	21,424	869	17,438	9,186	2,117	5,688	1,607	25,766	23,937	20,793	5,105	16,516	16,785	7,832	9,843	3,064	27,448	10,626	2,180	4.9	56.7
07/04	60,317	2,868	6,492	1,469	6,965	6,889	2,568	2,335	8,898	35,698	6,148	57,022	3,530	19,039	11,018	4,351	5,053	1,249	21,653	16,369	2,445	5.0	61.8
07/05	59,845	4,556	5,194	8,238	11,430	6,848	7,630	1,246	7,069	11,076	2,364	17,481	3,769	6,358	16,547	1,910	1,256	413	24,007	25,340	948	4.2	66.0
07/06	36,136	4,642	2,597	2,989	4,015	8,293	3,154	472	2,746	9,763	19,729	1,546	6,620	4,392	8,063	3,392	1,759	1,084	21,323	11,083	693	2.9	68.9
07/07	12,312	32,159	3,246	2,267	9,355	6,201	1,128	440	2,981	12,403	19,224	936	13,819	2,819	7,176	7,703	1,674	642	18,917	8,004	430	3.5	72.3
07/08	6,021	10,964	9,089	2,505	7,234	7,338	4,644	1,311	3,053	7,878	28,154	739	5,901	2,712	5,729	18,750	2,366	201	23,583	3,437	415	3.0	75.4
07/09	3,989	4,872	3,895	1,973	3,765	6,601	5,551	2,532	1,135	7,435	6,448	559	3,023	4,578	14,793	5,325	1,909	1,336	11,201	2,541	524	1.9	77.3
07/10	2,755	11,948	7,141	1,657	2,561	5,348	11,008	574	6,152	11,640	10,333	780	2,362	3,690	22,801	2,097	1,430	665	5,645	2,244	677	2.4	79.7
07/11	4,817	6,383	8,440	3,205	2,507	4,401	8,089	301	6,382	6,060	3,337	1,366	19,174	2,098	6,060	2,989	855	308	8,801	2,437	314	2.1	81.7
07/12	6,189	6,149	8,440	3,201	0	1,178	27,386	333	24,133	16,412	2,854	1,706	14,505	1,612	3,270	1,639	898	1,207	4,537	2,084	627	3.0	84.7
07/13	4,895	7,877	9,089	2,447	932	746	7,314	295	5,310	5,646	2,472	1,580	6,202	1,600	2,667	819	1,068	3,580	1,588	969	3,505	1.7	86.5
07/14	4,431	6,180	2,597	3,198	578	1,596	2,138	258	840	5,343	1,035	2,223	3,027	2,696	2,369	507	803	2,042	1,165	1,247	3,875	1.1	87.6
07/15	2,496	7,187	2,597	3,327	440	18,524	4,709	540	368	6,137	564	1,646	1,603	1,995	1,117	449	654	1,204	647	1,892	687	1.5	89.1
07/16	3,572	2,030	2,597	2,910	511	10,549	5,500	552	379	4,551	436	2,752	1,351	2,263	1,340	638	669	611	597	1,483	705	1.1	90.1
07/17	14,521		3,895	1,491	1,217	4,898	2,933	509	756	5,902	612	4,559	1,225	3,409	5,197	523	242	1,321	343	1,157	626	1.2	91.3
07/18	31,534		7,141	1,677	5,322	4,215	1,223	606	667	9,144	496	5,325	614	1,719	2,675	283	817	748	209	1,609	616	1.4	92.7
07/19	3,680		5,843	1,628	4,716	20,261	1,284	650	296	3,366	651	5,615	550	1,644	900	282	1,072	376	228	1,181	449	1.2	93.9
07/20	4,122		8,440	1,758	1,343	5,744	1,481	1,037	531	4,094	702	2,938	548	878	750	253	490	228	415	1,270	359	0.8	94.8
07/21	4,334		2,597	1,174	3,381	5,687	1,136	1,876	742	4,173	1,011	1,876	755	720	606	204	286	230	590	1,483	374	0.7	95.5
07/22			1,948	1,214	2,565	5,002	695	954	728	1,375	2,313	3,217	290	494	679	365	334	179	870	1,270	283	0.6	96.0
07/23			1,298	1,413	62	4,338	752	561	913	1,371	p2,872	1,973		475	769	245	352	330	302	1,039	301	0.5	96.5

Table 13. Chum salmon escapement estimates and average escapement percentage by date, Nushagak River, 1980-2000.

	Year																				Average Percent[a]	
Date	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	Daily	Cum.
07/24			2,597	1,488	184	1,403	1,178	690	1,258	1,322	2,703	471		433	688	384	325	291	171	1,010	343	0.4	97.0
07/25			2,597	1,839	169	358	661	513	1,985	891	2,641	67		359	1,652	428	240	140	169	730	221	0.4	97.4
07/26			2,597	1,989	143	219	161	564	797	510	2,495	68		13	1,759	337	227	156	343	1,011	79	0.4	97.7
07/27			2,597	1,974	117	160	354	480	723	317	2,265	73		15	1,828	35	440	76	245	579	95	0.3	98.1
07/28			1,948	2,109	74	71	120	341	691	375	4,130	256		13	642	68	263	95	436	454	403	0.3	98.4
07/29			649	2,146	159	20	0	259	525	249	601	978		8	114	27	350	90	418	200	359	0.2	98.6
07/30			649	1,377	239	11	922	303	1,054	483	525	376		9	173	35	633		272	145	269	0.2	98.8
07/31			649	957	663	18	305	180	1,602	1,279	318	153		10	196	26	199		313	154	177	0.2	99.0
08/01			0	660	0	18	0	190	1,102	375	447	161		29	218	10	35		377	110	336	0.1	99.1
08/02			3,246	790	0	12	0	174	489	126	46	334		10	102	23	398		438	26	353	0.2	99.3
08/03				734	0	16	0	142	436	0	269	149		11	44	11	170		1,099	24	328	0.1	99.4
08/04				658	258	43	641	161	156	0	557	123		12	40	16	126		1,398	114	433	0.1	99.5
08/05				73		122	310	478	205	0	828	79		15	38	197	285		257	152	89	0.1	99.6
08/06				118		174	155	686	170	0	3,290	159		10	40	133	126		343	59	16	0.1	99.7
08/07				110		110	80	260	248	0	1,863	92		126	123	36	67		212	23	12	0.1	99.7
08/08				281		472	65	101	945	62	5,102	48		60	53	8	40		39	15	9	0.2	99.9
08/09				309		445	62	45	175	568	896	61		16	2	8	47		20	10	6	0.1	100.0
08/10						172	141	47		549	0	70			13	27	50			13	8	0.0	100.0
08/11						206	58	31		136	0	82			473	46	19			46	6		
08/12						487		19			0	122			33	26	10			28	7		
08/13						260		21			297	114			16	62	1			16	12		
08/14						511		23			199	166			17	23	1			10	8		
08/15						231		38			47	177			14	11				9	5		
08/16						145		37			16	32			10	9				8	5		
08/17						71		30			97	13			11	8				6	6		
08/18						54					97	25			8	6				9			
08/19						54					68	12			21	9				16			
08/20						41						13			17					51			
08/21						9						4			26					47			
08/22															25					19			
08/23															16					17			
08/24															12					13			
08/25															1					4			
Total	331,678	143,324	230,141	106,279	362,369	214,481	168,276	147,433	186,418	377,512	329,793	287,281	302,858	217,230	378,928	212,612	225,029	61,456	299,215	242,312	141,324		

[a] Average percent of total annual escapement for 1980 - 1999, June 4 through August 10.

Table 14. Coho salmon escapement estimates and average escapement percentage by date, Nushagak River, 1982-2000.

	Year																		Average Percent[a]	
Date	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1993	1994	1995	1996	1997	1998	1999	2000	Daily	Cum.
06/29	0	0	0	0	0	0	0	0	0	25	0	0	0	0	0	0	0	0	0.0	0.0
06/30	0	0	0	0	0	0	0	0	0	17	0	0	0	0	0	0	0	0	0.0	0.0
07/01	0	0	0	0	0	0	0	0	0	43	0	0	0	0	0	0	0	0	0.0	0.0
07/02	0	0	0	0	0	0	0	0	0	29	0	0	0	0	0	0	0	0	0.0	0.0
07/03	0	0	0	0	0	0	0	0	0	24	0	0	0	0	0	0	0	0	0.0	0.0
07/04	0	0	0	0	0	0	0	0	0	63	0	0	0	0	0	0	0	17	0.0	0.0
07/05	0	336	0	0	0	0	0	0	0	39	0	0	0	0	0	0	0	38	0.0	0.0
07/06	0	122	0	0	0	0	0	0	0	12	0	0	0	0	0	0	0	25	0.0	0.0
07/07	0	93	0	0	0	0	0	0	0	8	0	0	0	80	0	0	0	18	0.0	0.1
07/08	0	102	0	0	0	0	0	0	0	9	0	0	347	135	0	0	0	15	0.1	0.1
07/09	0	81	0	0	0	0	0	0	0	5	0	0	0	128	0	0	0	37	0.0	0.1
07/10	0	68	0	0	0	0	0	0	0	3	0	426	378	157	0	0	10	35	0.1	0.2
07/11	0	71	0	0	0	0	0	0	0	5	0	125	585	558	0	0	10	24	0.1	0.4
07/12	0	71	0	0	0	0	0	0	0	6	0	112	244	419	42	0	291	27	0.1	0.5
07/13	0	54	0	0	0	0	0	0	0	175	0	96	99	387	52	867	101	72	0.2	0.7
07/14	0	71	0	0	0	0	0	0	0	265	0	155	67	271	420	1,088	138	2,187	0.3	0.9
07/15	0	74	0	0	0	0	0	246	0	193	0	81	57	292	269	1,009	209	324	0.2	1.2
07/16	0	0	0	0	708	0	0	172	0	329	0	103	77	208	159	789	165	353	0.2	1.4
07/17	1,354	0	0	0	0	0	0	250	0	556	0	142	64	176	317	527	118	794	0.3	1.7
07/18	1,354	0	532	0	0	0	0	374	0	642	0	566	35	553	282	323	171	813	0.4	2.1
07/19	1,354	0	786	127	0	0	0	133	25	651	0	546	31	1,016	212	361	128	674	0.4	2.5
07/20	1,354	0	671	73	0	177	0	670	30	333	0	458	31	440	117	568	141	612	0.3	2.8
07/21	1,354	406	3,381	131	0	320	0	551	51	193	0	358	22	318	125	908	169	592	0.5	3.3
07/22	2,708	420	2,565	106	0	163	0	322	114	246	0	465	35	890	115	1,373	120	883	0.5	3.7
07/23	4,062	489	186	101	575	96	810	287	127	196	0	539	22	735	210	468	109	1,111	0.3	4.0
07/24	10,833	515	552	33	748	118	1,166	0	131	43	0	493	49	1,004	150	281	120	756	0.3	4.3
07/25	5,416	637	508	575	416	88	1,674	0	432	591	0	1,212	1,715	2,589	87	244	88	1,351	0.9	5.2
07/26	6,771	597	429	367	234	97	1,059	0	494	620	1,427	1,843	1,225	2,885	96	588	659	1,417	1.2	6.4
07/27	8,387	592	820	269	386	82	976	0	508	645	1,127	1,970	554	7,481	49	447	561	1,782	1.2	7.7
07/28	9,479	633	515	106	184	58	808	0	701	2,199	752	1,996	581	20,959	72	780	452	7,414	2.0	9.7
07/29	8,125	644	1,115	19	480	44	632	1,263	960	8,518	902	973	1,377	21,802	58	891	326	6,900	3.5	13.2
07/30	5,416	413	1,672	15	453	52	1,326	2,362	991	3,858	1,006	466	1,750	39,448	818	575	373	6,099	3.6	16.8
07/31	4,062	0	663	20	226	31	2,464	6,066	621	1,402	527	1,235	1,311	12,642	869	662	814	5,223	2.4	19.1
08/01	2,708	0	632	17	914	33	1,574	1,886	2,574	1,392	864	2,874	652	4,614	673	1,069	3,108	28,732	2.3	21.4
08/02	6,771	0	728	15	1,426	30	5,174	669	3,238	2,883	982	1,143	1,332	8,608	769	975	679	32,757	2.3	23.8
08/03	3,300	0	478	18	8,951	24	8,513	269	1,033	1,316	611	906	832	2,311	1,100	15,823	697	27,150	2.8	26.6
08/04	2,200	0	1,032	59	7,144	1,529	9,168	175	3,068	1,066	1,163	813	716	8,379	1,844	22,747	3,626	19,085	4.5	31.1
08/05	1,354	1,212	799	4,124	3,461	4,594	6,362	150	2,701	710	1,578	2,246	8,274	12,147	955	4,455	4,945	10,097	5.1	36.1
08/06	5,416	1,948	7,126	5,979	1,804	6,479	6,033	208	7,695	1,369	712	2,009	6,208	9,410	683	4,831	2,176	3,509	4.7	40.8
08/07	1,354	1,819	5,191	3,900	831	2,379	7,837	227	8,062	783	4,160	2,707	1,791	5,739	645	4,340	866	1,611	3.8	44.7
08/08	1,354	4,638	695	22,181	681	917	18,480	1,625	11,915	423	1,941	2,405	559	2,609	752	2,316	534	1,786	5.2	49.9

Table 14. Coho salmon escapement estimates and average escapement percentage by date, Nushagak River, 1982-2000.

	Year																		Average Percent[a]	
Date	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1993	1994	1995	1996	1997	1998	1999	2000	Daily	Cum.
08/09	5,416	5,105	955	7,880	636	414	5,903	17,005	2,513	530	660	1,635	546	2,812	943	1,940	310	1,459	3.8	53.7
08/10	10,833	4,435	4,321	2,908	1,362	489	7,888	17,916	8,305	683	661	9,751	1,132	3,100	3,185	1,531	423	1,026	5.2	58.9
08/11	51,456	1,981	2,335	3,731	4,376	320	11,607	3,778	10,354	774	364	28,753	1,892	1,818	3,192	1,298	1,773	782	6.3	65.2
08/12	20,312	1,629	5,235	8,459	2,009	179	11,984	13,365	8,011	1,078	696	1,922	999	1,116	6,408	1,602	1,141	694	5.4	70.6
08/13	13,541	1,215	5,050	4,289	1,179	193	3,359	5,738	21,355	949	811	920	2,766	992	3,067	1,610	487	955	4.0	74.6
08/14	20,000	944	1,881	8,554	2,106	238	3,278	2,300	13,331	1,327	846	884	1,159	971	2,100	1,537	317	1,312	3.2	77.8
08/15	27,082	982	426	4,098	728	387	2,107	1,568	5,943	1,409	1,480	706	523	1,060	1,220	1,352	354	713	2.1	79.8
08/16	8,180	855	6,995	605	362	387	1,928	704	2,382	322	1,687	590	509	1,179	528	3,083	318	1,035	1.7	81.5
08/17	7,873	552	6,616	1,286	391	302	2,852	339	6,794	141	1,049	584	443	632	1,030	9,326	207	553	2.3	83.8
08/18	2,653		8,938	960			1,701	350	7,238	230	813	446	559	895	709	4,032	318		1.9	85.7
08/19			6,872	963			1,421	795	3,450	110	9,074	1,065	499	906	1,029	1,936	592		3.1	88.8
08/20			4,880	698			799	470	2,063	124	4,151	1,012	434	517	1,061	1,605	2,326		2.3	91.1
08/21			5,463	156			911	352	1,301	37	1,129	1,422	581	256	1,422	1,368	2,151		1.7	92.8
08/22			26,267				1,016	291	1,078		693	1,492	521	321	2,460	781	823		3.0	95.8
08/23			15,314				291	195	864		415	708	1,468	294	1,402	1,362	677		2.1	97.9
08/24			5,782					1,275	694		342	582	1,058	348	895	798	560		1.4	99.3
08/25			4,435					282	557		119	84	231	421	778	482	172		0.7	100.0
08/26								78	808					1,339	587					
08/27									2,801					643	755					
08/28									2,130					335	632					
08/29									1,662						500					
08/30									1,458						763					
08/31									848						1,170					
09/01									722						967					
09/02									484						649					
09/03									602						800					
09/04									1,011						781					
09/05									831						704					
09/06									1,064						734					
09/07									1,283						754					
09/08									984						795					
09/09									1,289						705					
09/10									1,373						678					
09/11									1,512						659					
09/12									287						608					
09/13															486					
Total	263,832	33,804	142,841	82,822	42,771	20,219	131,101	84,706	162,853	39,599	42,742	82,019	46,340	189,345	57,096	104,948	34,853	172,849		

[a] Average percentage of total annual escapement for 1984-85, 1988-91, and 1993-1999, June 29 through August 25.

Table 15. Pink salmon even-year escapement estimates and average escapement percentage by date, Nushagak River, 1980-2000.

Date	Year										Average Percent[a]	
	1980	1982	1984	1986	1988	1990	1994	1996	1998	2000	Daily	Cum.
06/30												
07/01	0	0	0	0	0	0	0	0	0	0	0.0	0.0
07/02	0	0	549	0	0	0	0	0	0	0	0.0	0.0
07/03	0	0	0	0	0	0	121	0	0	0	0.0	0.0
07/04	0	0	0	0	0	0	0	0	0	0	0.0	0.0
07/05	0	0	0	0	0	0	258	0	0	0	0.0	0.0
07/06	0	0	0	0	0	0	0	0	0	0	0.0	0.0
07/07	0	0	0	0	0	0	0	0	0	0	0.0	0.0
07/08	0	0	0	0	0	0	0	0	0	0	0.0	0.0
07/09	0	0	0	0	227	0	672	58	0	42	0.0	0.1
07/10	0	0	0	0	134	0	2,340	270	0	52	0.1	0.2
07/11	0	0	251	0	191	0	335	273	0	33	0.0	0.2
07/12	0	0	794	0	0	0	268	341	0	30	0.0	0.3
07/13	0	0	266	0	0	0	256	475	1,032	53	0.1	0.4
07/14	0	3,216	165	215	304	179	262	329	2,019	70	0.3	0.6
07/15	0	3,216	126	0	107	72	151	187	2,062	33	0.2	0.9
07/16	0	3,216	146	1,809	113	63	172	198	1,882	44	0.5	1.3
07/17	0	3,216	348	0	275	112	194	453	1,080	461	0.1	1.5
07/18	1,855	12,864	6,386	0	331	97	168	1,765	676	492	0.3	1.8
07/19	216	9,648	7,859	0	140	106	562	2,698	772	470	0.3	2.0
07/20	1,600	12,864	18,126	356	279	110	570	796	1,264	424	0.5	2.5
07/21	2,300	19,297	31,880	255	451	151	365	613	1,875	390	0.6	3.1
07/22	2,996	19,297	24,188	202	432	348	1,095	2,451	2,852	517	0.7	3.8
07/23	5,510	35,377	23,845	4,330	4,209	447	1,206	2,255	1,008	804	1.5	5.3
07/24	2,161	16,081	70,605	4,363	6,170	410	1,059	2,318	644	466	1.6	6.9
07/25	3,100	61,106	64,968	2,384	8,514	665	2,432	32,951	630	1,066	2.1	9.0
07/26	4,999	25,729	54,894	625	14,669	676	3,288	29,860	1,524	1,565	1.8	10.8
07/27	10,475	196,182	66,214	1,239	13,728	647	3,507	52,386	1,125	1,964	3.7	14.5
07/28	21,782	93,267	41,567	6,853	9,722	1,053	14,964	65,581	2,137	8,009	4.7	19.2

Table 15. Pink salmon even-year escapement estimates and average escapement percentage by date, Nushagak River, 1980-2000.

Date	Year										Average Percent[a]	
	1980	1982	1984	1986	1988	1990	1994	1996	1998	2000	Daily	Cum.
07/29	22,057	109,347	89,976	7,728	7,873	17,893	6,889	80,657	2,354	7,018	5.2	24.3
07/30	32,754	109,347	134,987	8,620	17,365	17,770	32,461	165,951	1,515	6,018	8.6	32.9
07/31	18,992	147,941	119,383	4,297	38,549	11,070	16,177	82,605	1,774	12,026	6.2	39.1
08/01	115,186	173,669	137,574	4,828	23,238	32,017	32,832	39,307	2,878	18,467	8.9	48.0
08/02	61,476	118,996	158,472	7,738	32,460	39,470	16,842	56,063	2,627	20,656	7.6	55.6
08/03	120,802	67,538	104,080	6,589	55,663	64,515	2,644	57,074	31,210	17,769	10.3	65.9
08/04	75,708	54,674	97,528	3,878	60,774	86,613	2,380	24,795	25,074	13,169	8.3	74.2
08/05	26,757	38,593	79,075	1,883	19,695	193,407	6,886	28,660	7,768	9,588	6.2	80.4
08/06	21,750	9,648	96,630	1,064	17,049	90,081	6,417	29,066	8,977	3,307	4.4	84.9
08/07		3,216	113,159	386	23,977	76,456	9,052	18,574	7,269	1,428	3.8	88.6
08/08		9,648	83,438	326	80,869	88,089	7,751	7,806	2,679	1,715	4.5	93.1
08/09		12,864	61,145	284	17,246	38,446	2,138	8,100	2,190	1,336	1.9	94.9
08/10		35,377	46,597	507	6,451	9,279	6,980	9,098	1,490	803	1.6	96.5
08/11		19,297	73,178	1,100	6,699	11,861	5,131	5,097	1,306	647	1.5	98.1
08/12			26,831	66	9,763	9,429	360	2,993	1,592	591	0.7	98.8
08/13			25,252	51	3,195	2,350	162	1,861	813	707	0.4	99.1
08/14			9,403	124	3,491	1,257	150	1,827	640	1,096	0.3	99.4
08/15			11,026	43	1,957	555	100	681	499	525	0.2	99.6
08/16			3,498	24	1,636	178	106	737	691	687	0.1	99.7
08/17			3,308	20	2,762	405	95	383	2,183	393	0.3	100.0
08/14			9,403	124	3,491	1,257	150	1,827	640		0.3	99.4
08/15			11,026	43	1,957	555	100	681	499		0.2	99.6
08/16			3,498	24	1,636	178	106	737	691		0.1	99.7
08/17			3,308	20	2,762	405	95	383	2,183		0.3	100.0
08/18			1,702		1,432	580	85	530	1,007			
08/19			1,809		706	232	360	555	456			
08/20			3,202		438	442	258	309	484			
08/21			2,731		718	353	441	155	551			

Table 15. Pink salmon even-year escapement estimates and average escapement percentage by date, Nushagak River, 1980-2000.

	Year										Average Percent[a]	
Date	1980	1982	1984	1986	1988	1990	1994	1996	1998	2000	Daily	Cum.
08/22			2,694		392	297	453	175	466			
08/23			2,340		216	1,137	251	163	735			
08/24			482			587	114	213	379			
08/25			2,217			462	12	251	213			
08/26						802		804				
08/27						289		358				
08/28						148		206				
08/29						119						
08/30												
08/31												
09/01												
09/02												
09/03												
09/04												
09/05												
09/06												
09/07												
09/08												
09/09												
09/10												
09/11												
09/12												
Total	552,476	1,424,731	1,904,894	72,187	494,610	801,725	191,772	821,312	132,402	134,931		

[a] Average percentage of total annual escapement for 1980 - 2000 July 1 through August 17.

Figures

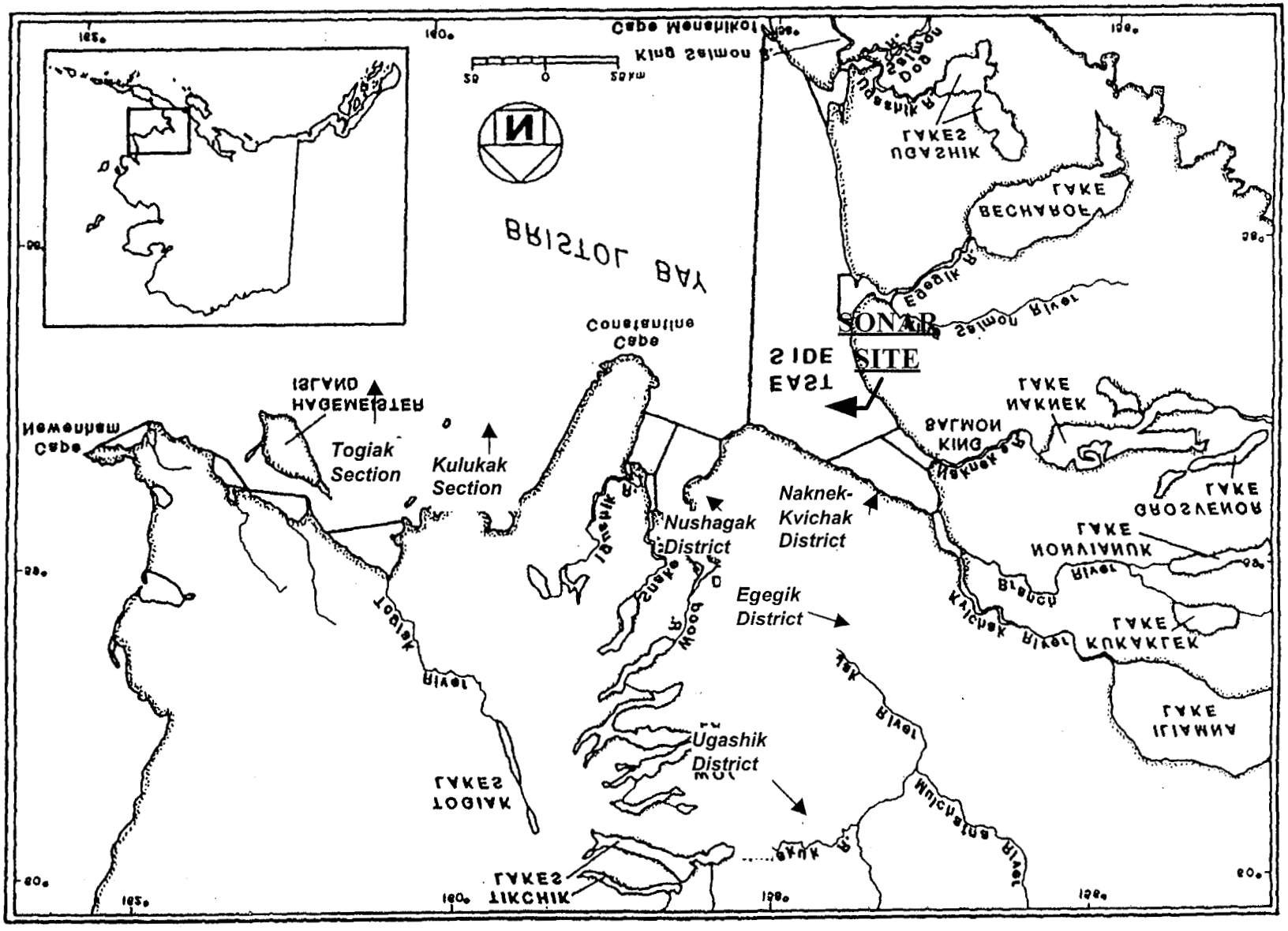

Figure 1. Bristol Bay area showing the location of the Nushagak River sonar site.

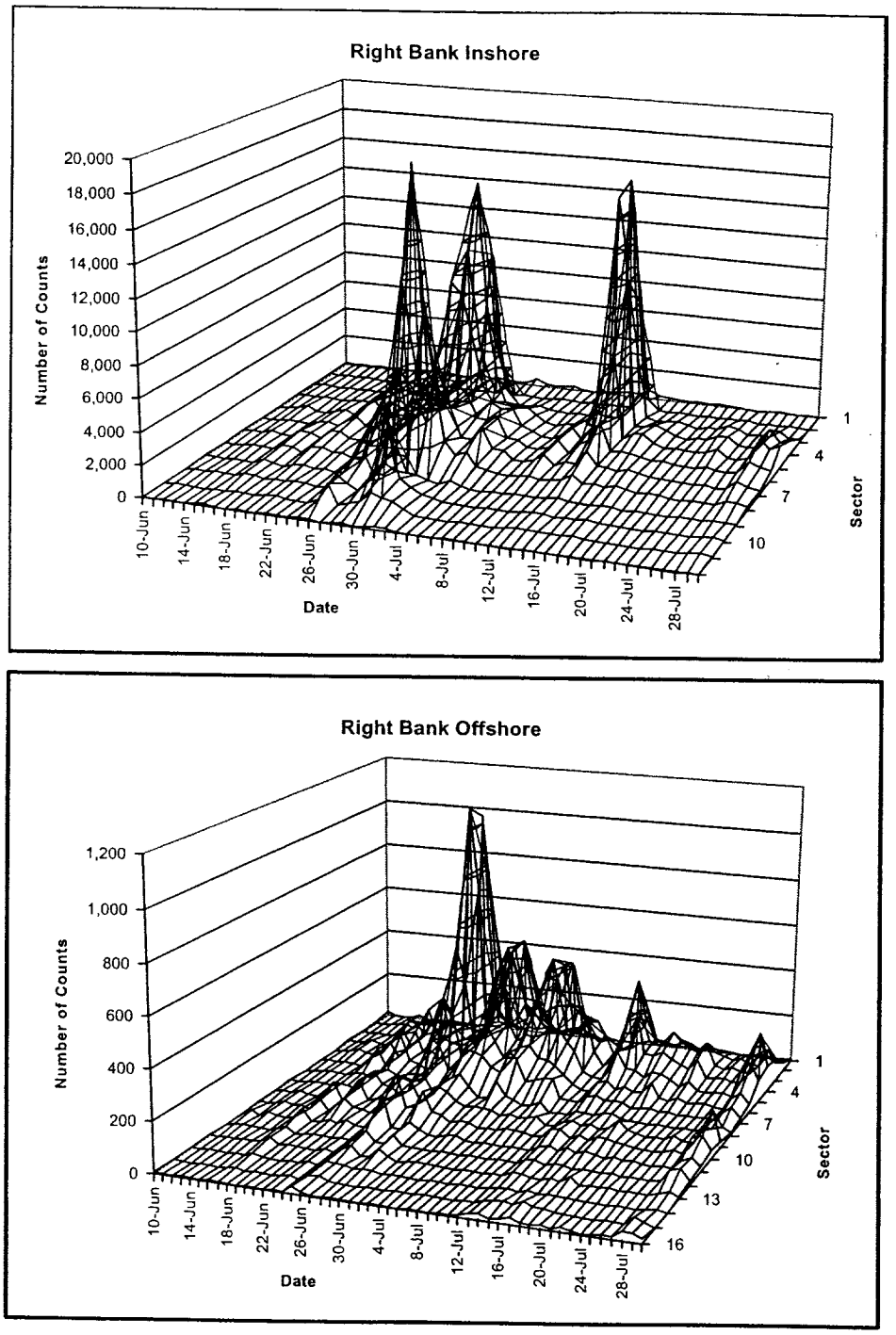

Figure 2. Number of sonar counts by sector for the right bank inshore and offshore counters, Nushagak River sonar project, June 10 - July 30, 2000.

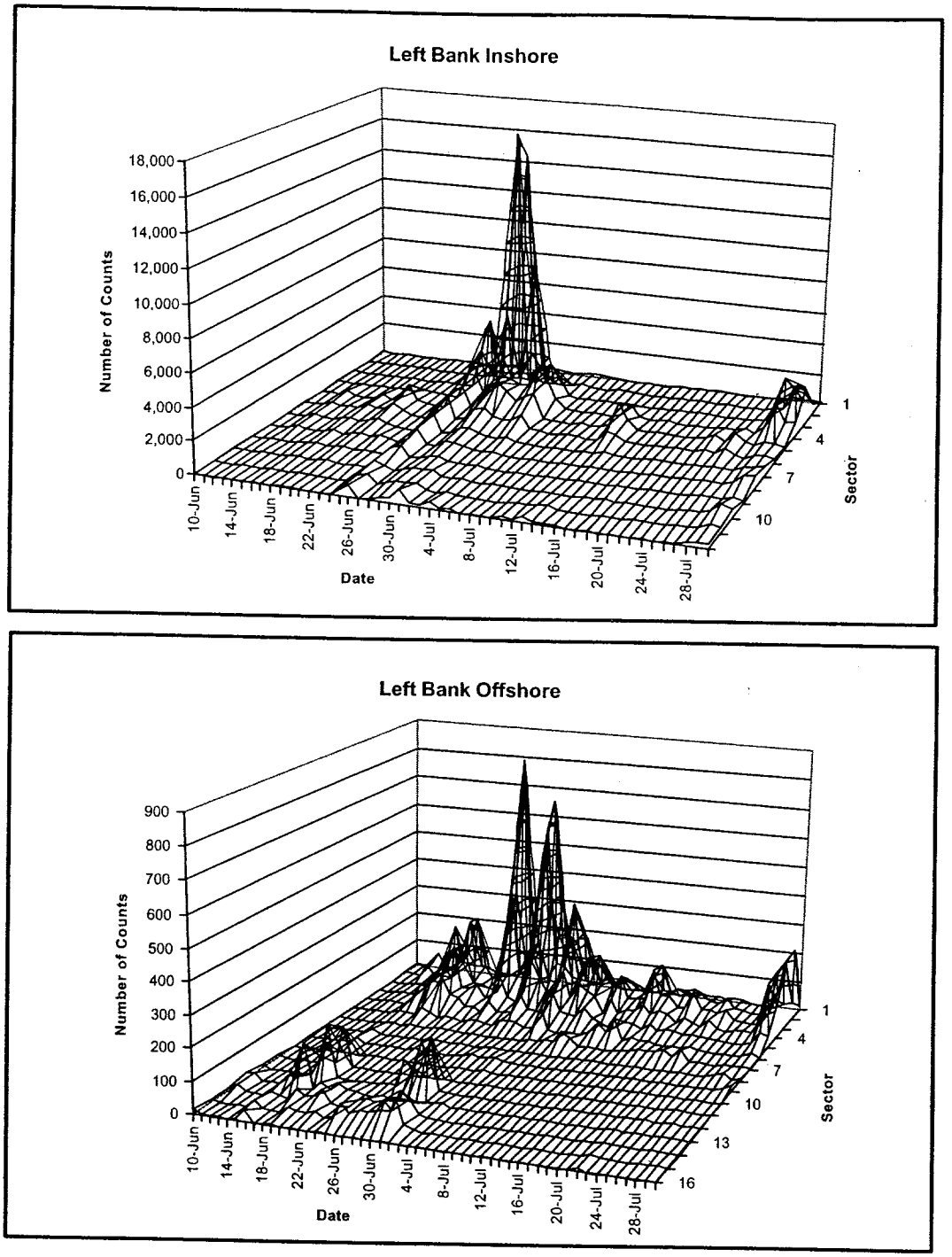

Figure 3. Number of sonar counts by sector for the left bank inshore and offshore counters, Nushagak River sonar project, June10 - July 30, 2000.

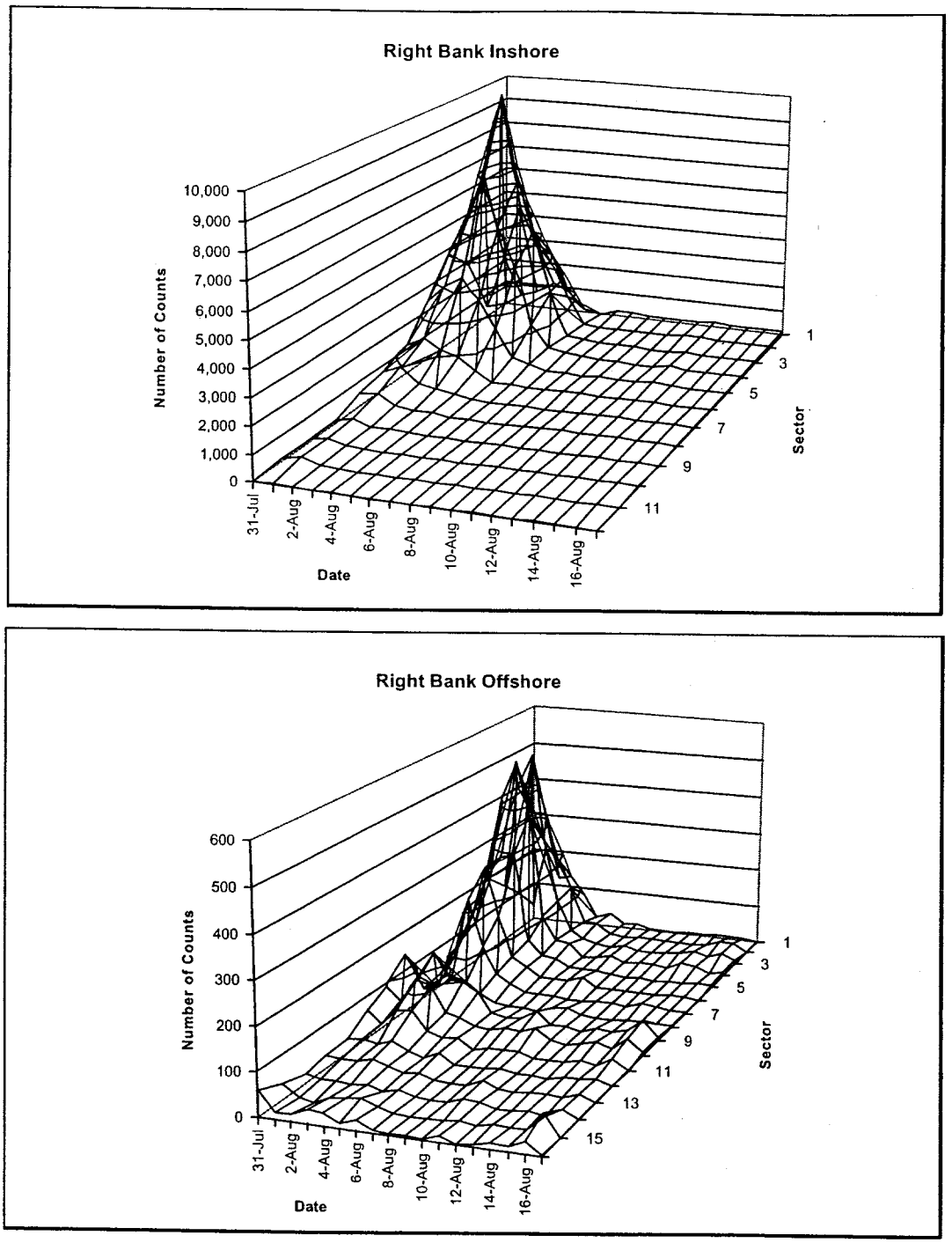

Figure 4. Number of sonar counts by sector for the right bank inshore and offshore counters, Nushagak River sonar project, July 31 - August 17, 2000.

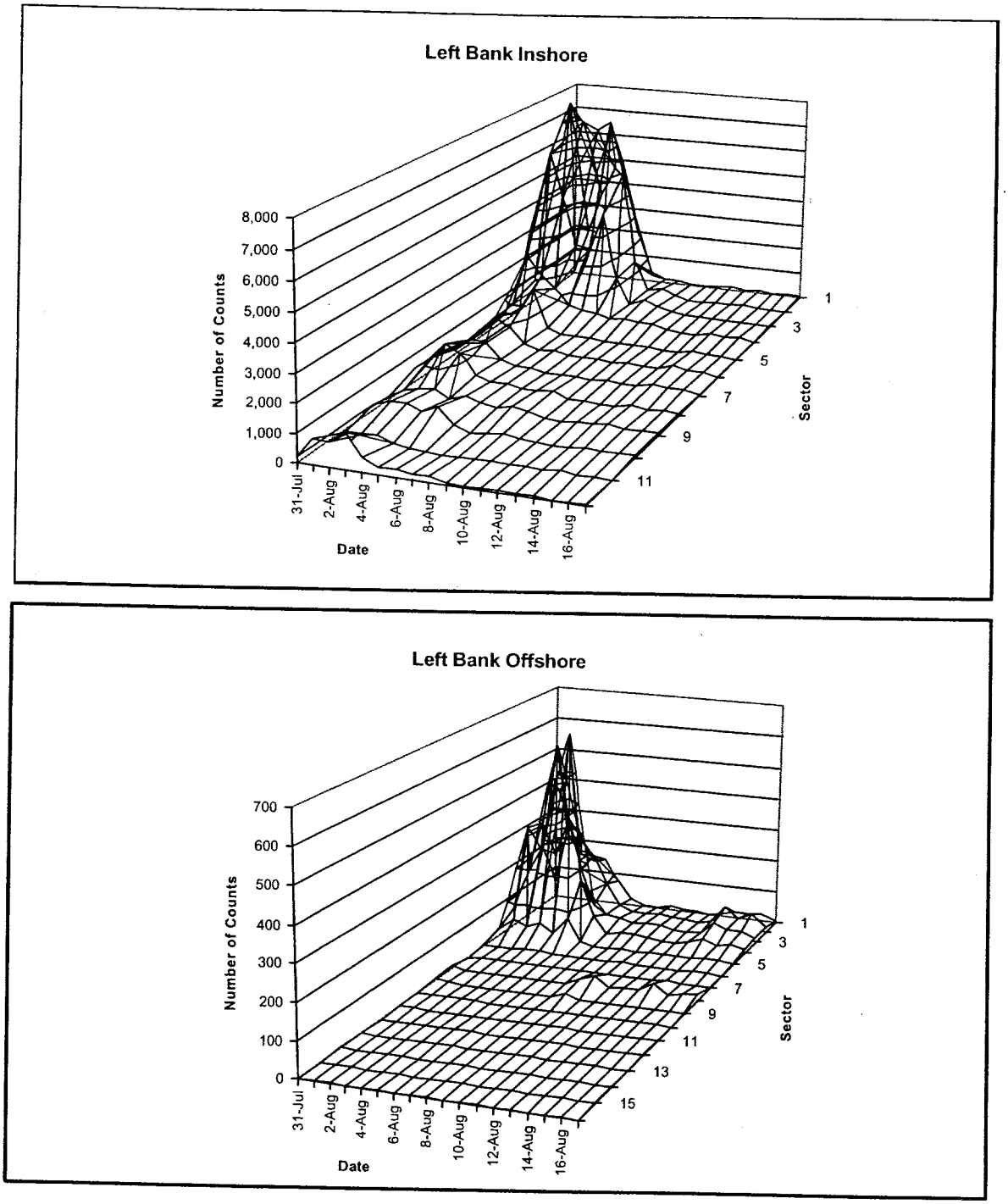

Figure 5. Number of sonar counts by sector for the left bank inshore and offshore counters, Nushagak River sonar project, July 31 - August 17, 2000.

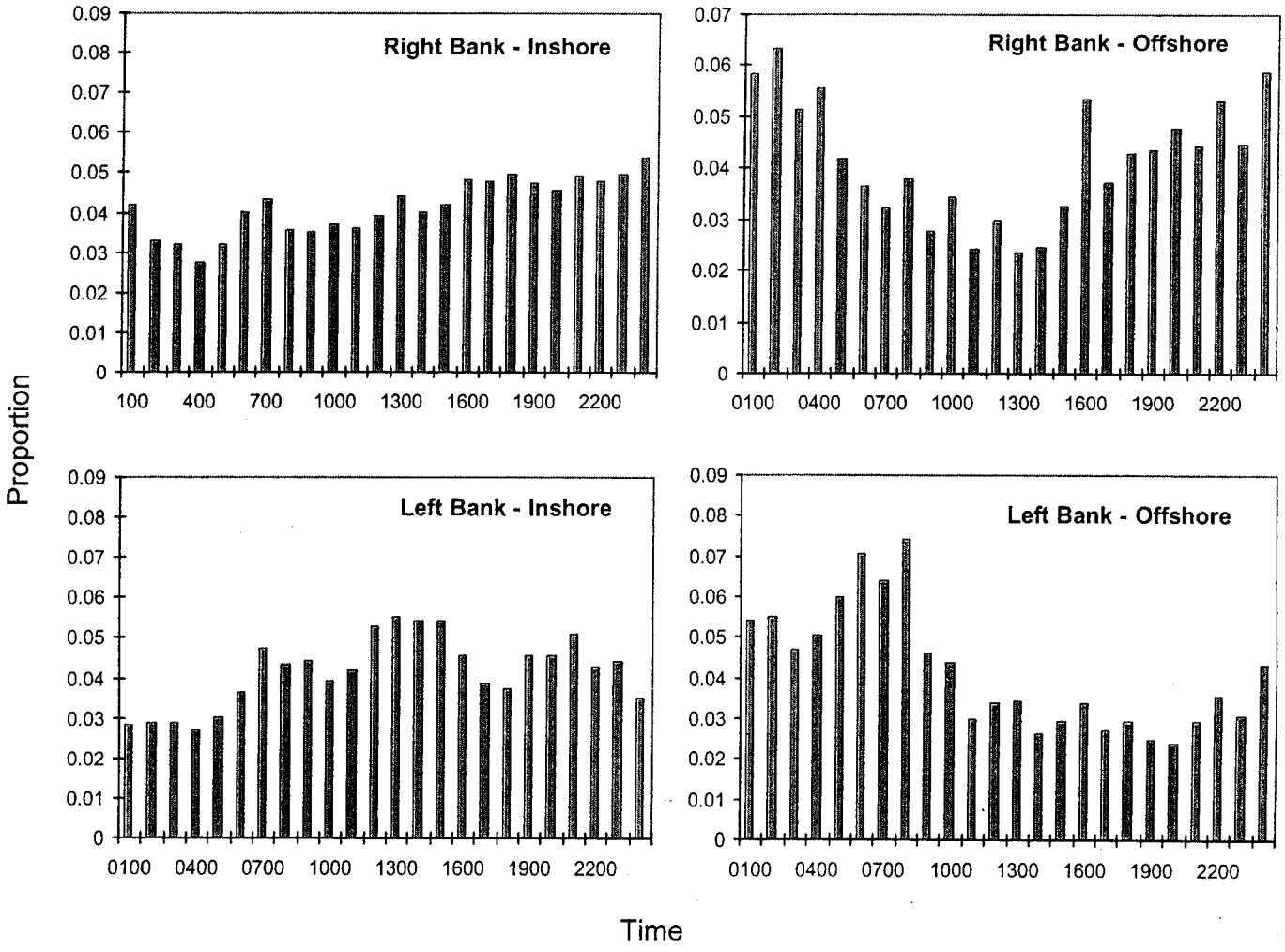

Figure 6. Average proportion of total sonar counts by hour for the right and left banks inshore and offshore counters, Nushagak River sonar project, June 10 - July 30, 2000.

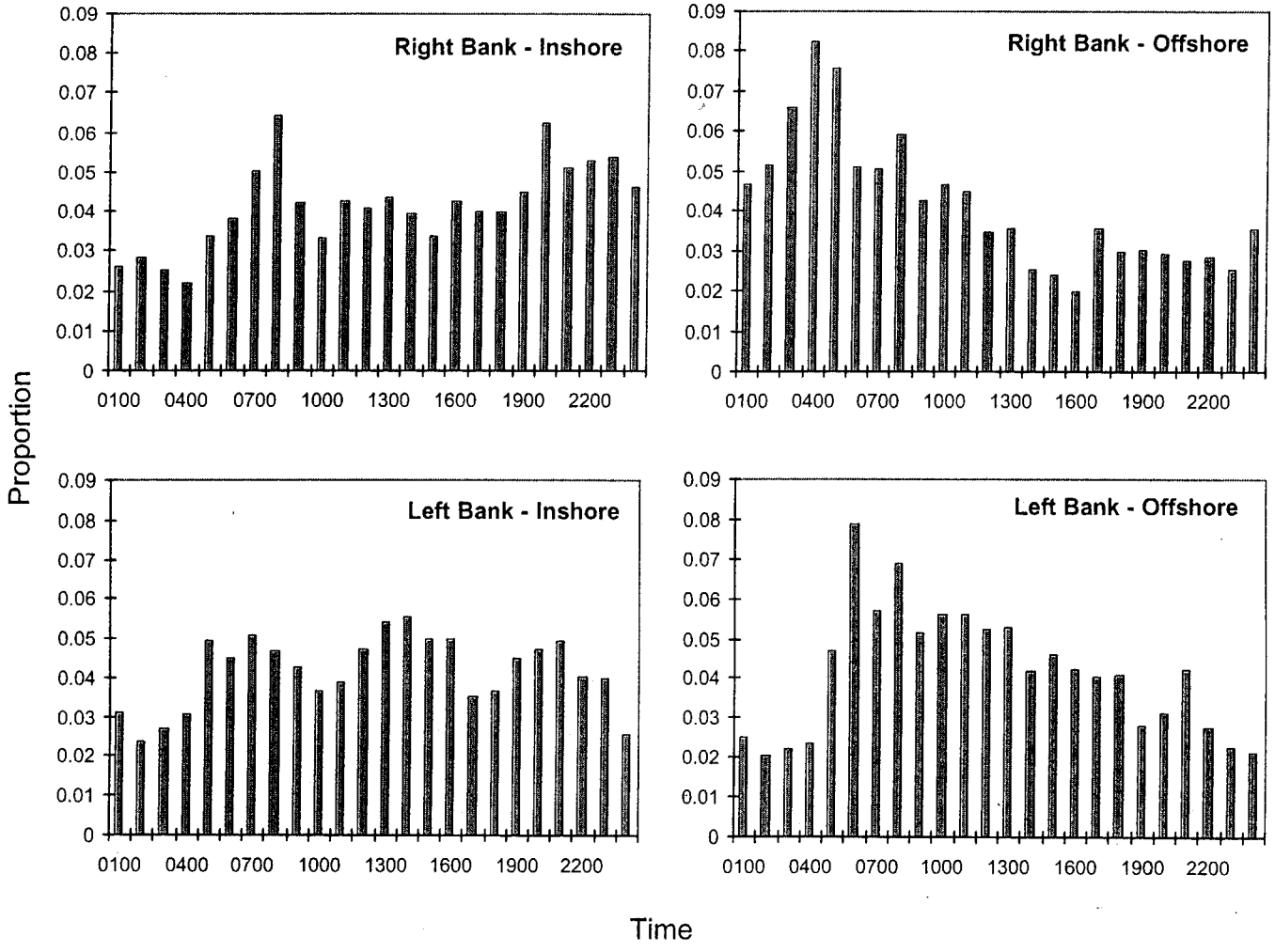

Figure 7. Average proportion of total sonar counts by hour for the right and left banks inshore and offshore counters Nushagak River sonar project, July 31 - August 17, 2000.

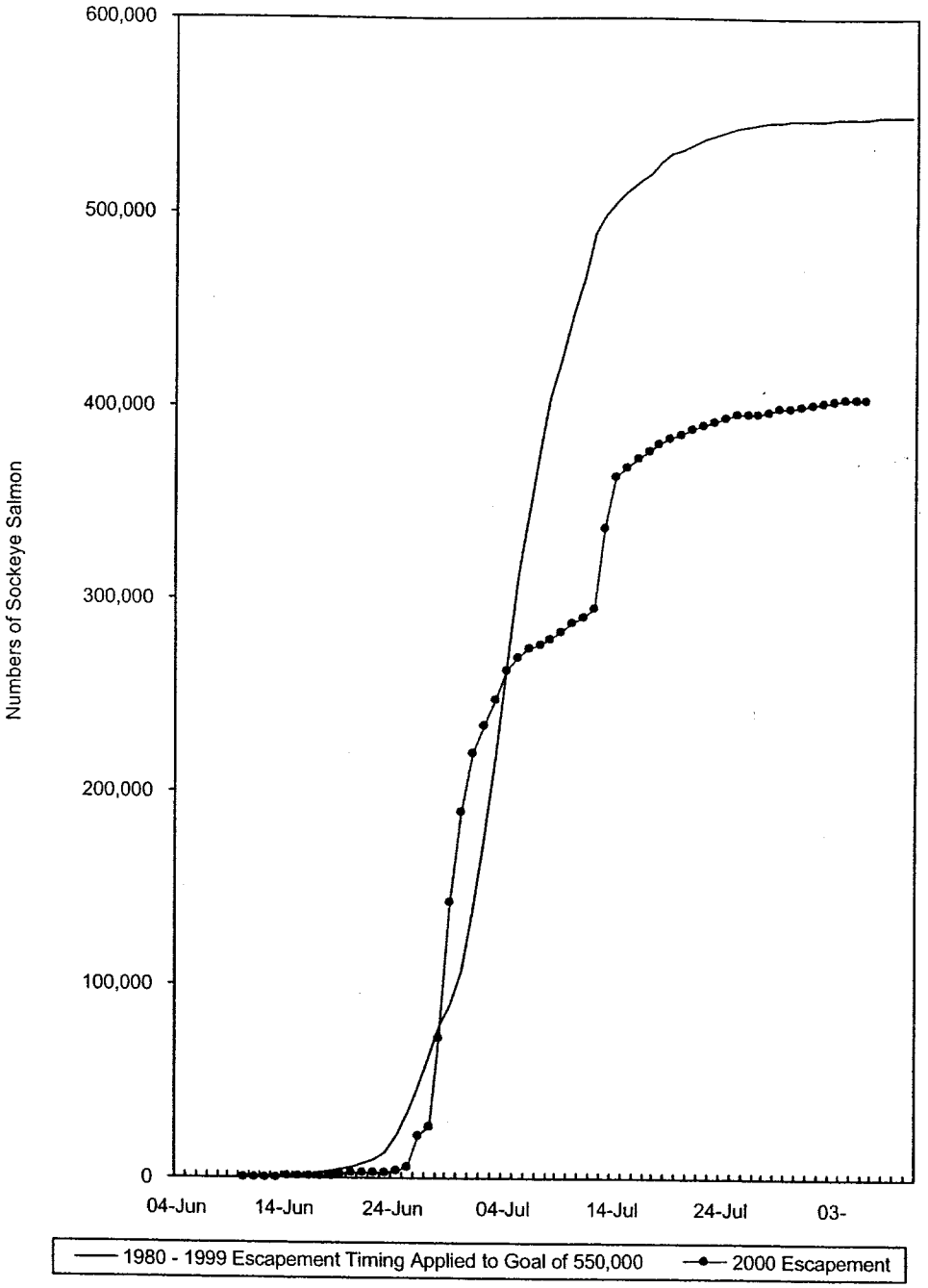

Figure 8. Average escapement timing of sockeye salmon into Nushagak River, June 4 through August 10, 1980 - 2000.

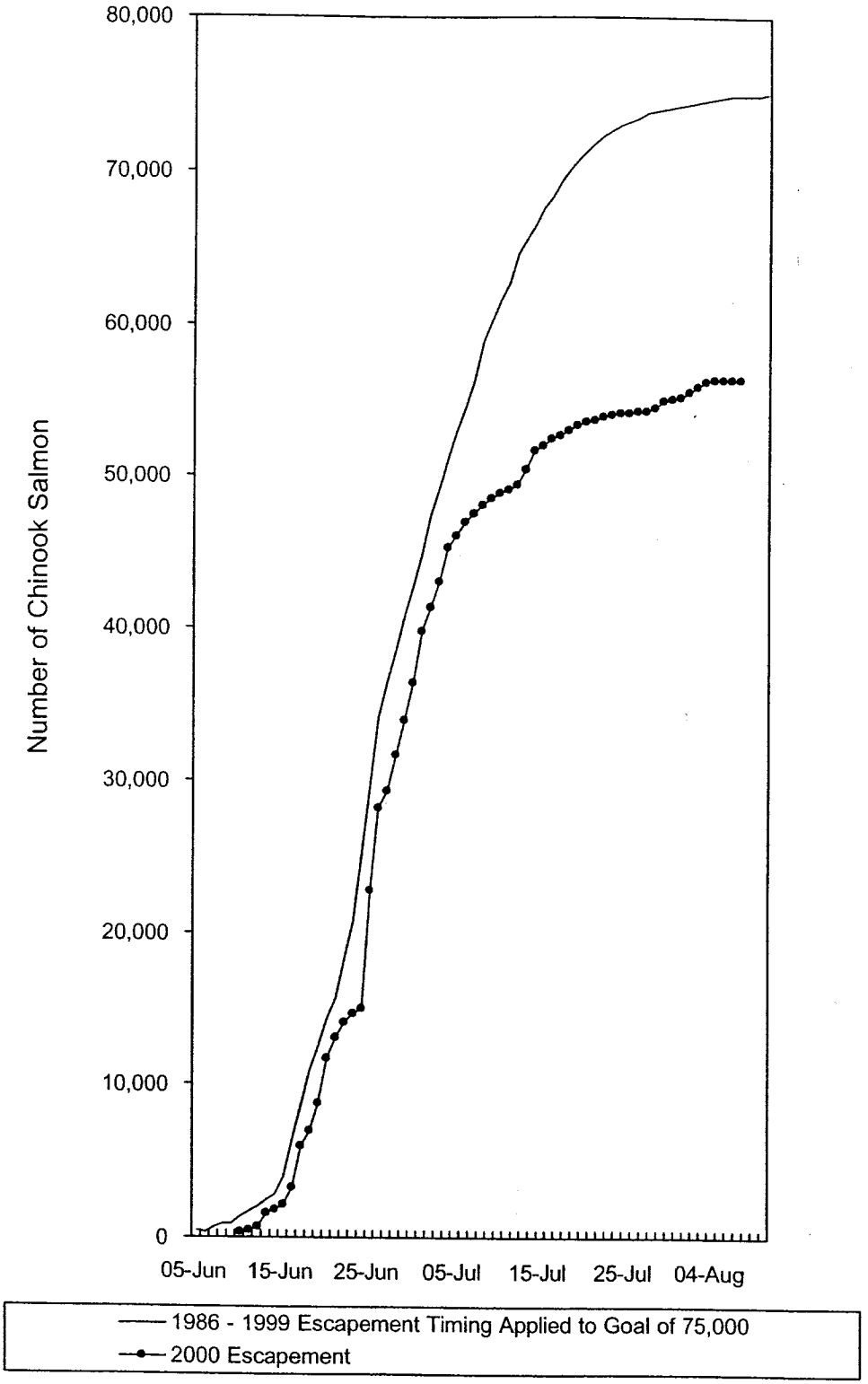

Figure 9. Average escapement timing of chinook salmon into Nushagak River, June 5 through August 10, 1986 - 2000.

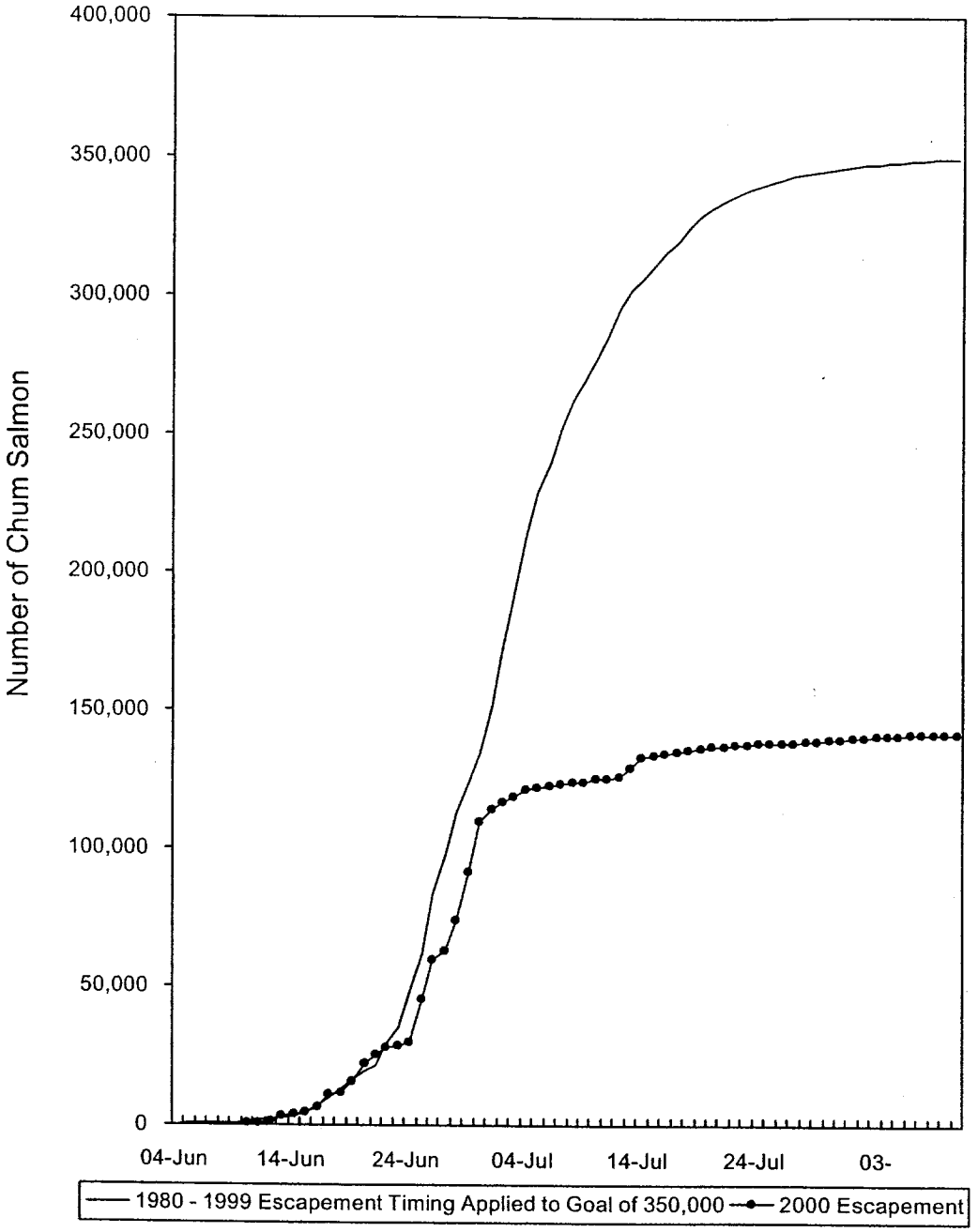

Figure 10. Average escapement timing of chum salmon into Nushagak River, June 4 through August 10, 1980 - 2000.

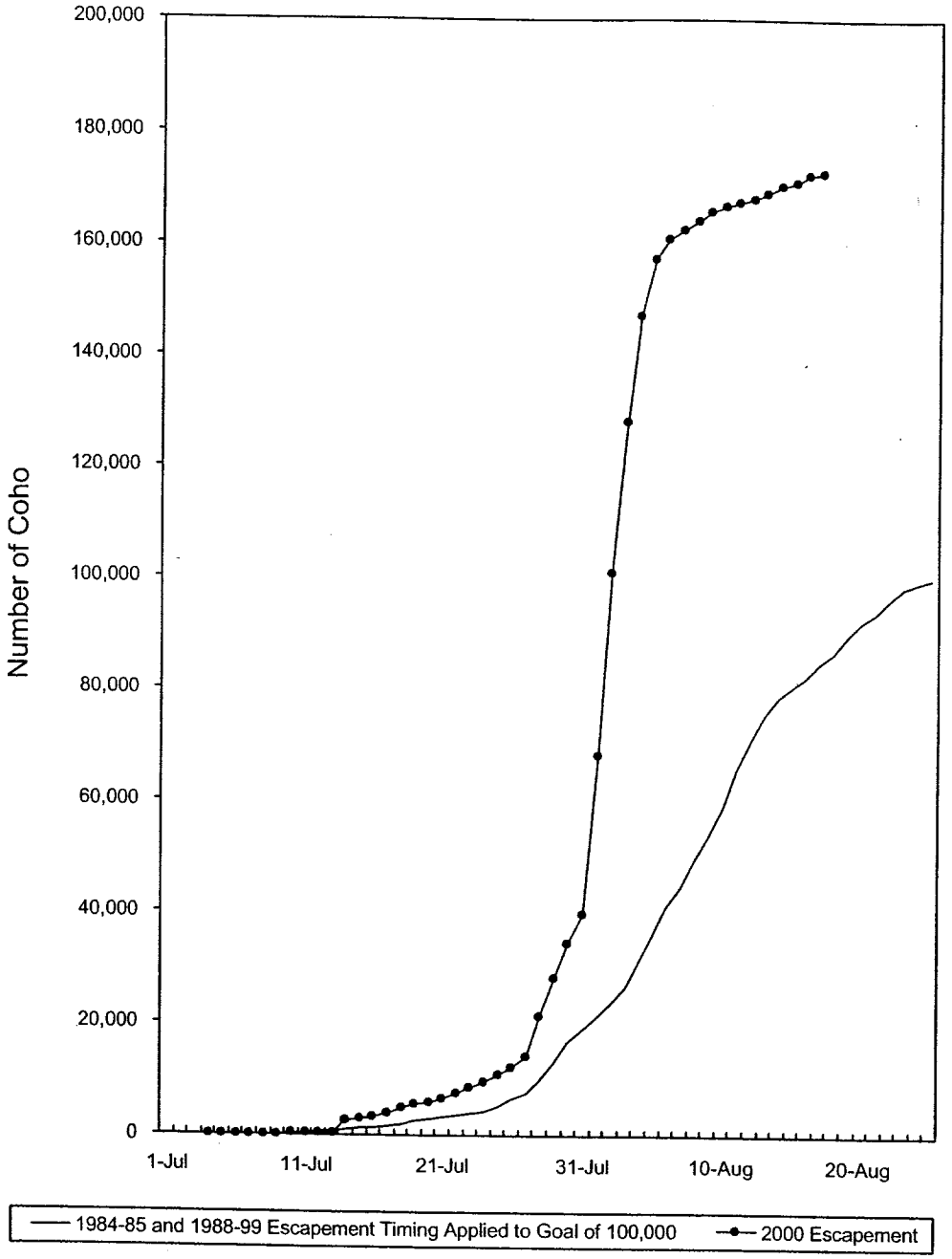

Figure 11. Average escapement timing of coho salmon into Nushagak River, July 1 through August 25, 1984 - 1985 and 1988 - 2000.

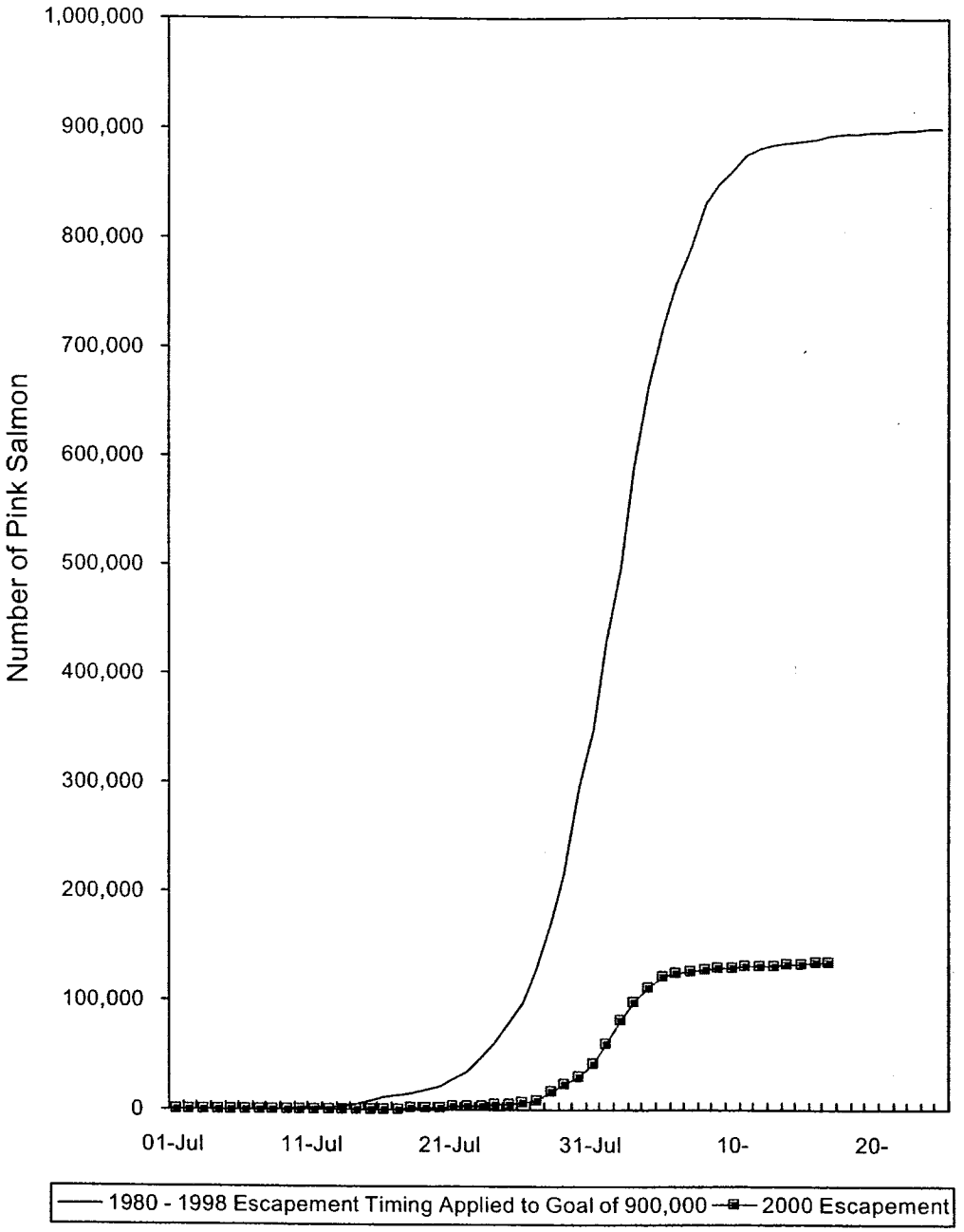

Figure 12. Average cumulative escapement timing of pink salmon into Nushagak River, July 1 through August 25, 1980 - 2000.

Appendix

Appendix A.1. Report periods for pooling escapement sampling data for the estimation of species composition, Nushagak River sonar project, 2000.

	Counting Range			
Date(s)	Left Inshore	Left Offshore	Right Inshore	Right Offshore
6/10-6/25	1	1	1	1
6/26	2	1	2	1
6/27	2	2	2	2
6/28	2	2	3	2
6/29	3	2	3	2
6/30	3	2	4	2
7/01	4	2	5	2
7/02	4	2	5	2
7/03	4	3	5	2
7/04	4	3	5	3
7/05-7/08	5	3	6	3
7/09-7/12	5	4	6	3
7/13	5	4	7	3
7/14-7/17	5	4	8	3
7/18-7/21	6	4	8	3
7/22-7/25	6	4	8	4
7/26-7/29	6	4	9	4
7/30	6	5	9	4
7/31	6	5	10	4
8/01-8/03	6	5	11	4
8/04	6	5	12	4
8/05	7	6	12	4
8/06-8/17	7	6	12	5

Appendix B.1. Climatological observations, Nushagak River sonar project, 2000.

Date	Cloud Cover[a] 800	Cloud Cover[a] 2000	Wind Direction & Velocity (k/hr) 800	Wind Direction & Velocity (k/hr) 2000	Air Temperature (°C) 800	Air Temperature (°C) 2000	Water Temperature (°C) 800	Water Temperature (°C) 2000	Precipitation (mm)	Water Color
6/10	3	4	calm	NW Light	8.6	13.2	8.0	10.0	Trace[c]	Brown
6/11	3	4	SE 5	NE 15	9.3	11.3	9.0	10.0	Trace	Brown
6/12	4	4	SW 20	calm	9.3	11.6	9.0	10.0	0	Brown
6/13	4	4	SW 5	calm	8.5	12.5	9.0	10.0	Trace	Brown
6/14	4	4	calm	SE 5	9	11.6	9.0	9.0	1	Brown
6/15	4	4	calm	NE 15	7.1	11.5	9.0	9.0	1	Brown
6/16	4	2	calm	E 5	7	13.8	9.0	10.0	Trace	Brown
6/17	2	4	calm	E 5	6.6	12.4	9.0	10.0	0	Brown
6/18	4	3	E 5	E 5	8.6	10.1	9.0	11.0	6	Brown
6/19	4	4	calm	calm	6.8	10.1	9.0	10.0	2	Brown
6/20	4	3	calm	SE 20	8.3	10.5	9.0	10.0	Trace	Brown
6/21	4	2	calm	calm	7.4	14.3	9.0	10.0	0	Brown
6/22	5	2	calm	NE 5	5.7	20.8	10.0	10.0	0	Brown
6/23	3	3	calm	SE 10	8.1	16	10.0	11.0	0	Brown
6/24	3	3	NW 15	NW 15	11.7	16.1	10.0	11.0	0	Brown
6/25	1	3	calm	calm	9	16.5	11.0	11.0	Trace	Brown
6/26	1	3	calm	SW 5	10.1	18.7	12.0	12.0	0	Brown
6/27	3	4	calm	SW 5	12.7	16.1	14.0	15.0	0	Brown
6/28	1	4	calm	calm	13	15.6	15.0	15.0	0	Brown
6/29	4	4	calm	SE 5	11.9	13	14.0	14.0	0	Light Brown
6/30	5	4	SW 5-10	SE 5	10.2	10.1	13.0	14.0	Trace	Light Brown
7/01	4	4	calm	SE 5	10.1	12.8	12.0	14.0	0	Light Brown
7/02	4	2	NW 5	SE 5	10.8	14.0	12.0	14.0	0	Light Brown
7/03	4	3	calm	SE 0-5	10.2	12.7	12.0	12.0	0	Light Brown
7/04	3	4	calm	calm	9.8	11.4	12.0	11.0	Trace	Light Brown
7/05	4	3	calm	NE 5	10.9	18.4	13.0	13.0	Trace	Light Brown
7/06	4	4	calm	calm	11.6	13.2	15.0	14.0	0	Light Brown
7/07	4	3	calm	SW 5	11.3	14.1	14.0	14.0	0	Light Brown
7/08	4	3	calm	calm	10.9	13.0	13.0	13.0	Trace	Light Brown
7/09	4	3	calm	SW 5-10	11.5	16.8	13.0	15.0	0	Light Brown
7/10	5	2	calm	calm	11.3	16.0	14.0	15.0	0	Light Brown
7/11	1	1	calm	SW 15	11	19.8	15.0	16.0	0	Light Brown
7/12	1	1	SW 5	SW 15	13.6	20.5	17.0	16.0	0	Light Brown
7/13	4	4	SW 10	S 5	13.6	17.7	17.0	16.0	0	Light Brown
7/14	4	4	S 5	SW 5	12.8	15.4	17.0	16.0	0	Light Brown
7/15	4	4	SE 10-30	SE 20	11.5	13.2	16.0	15.0	3	Light Brown
7/16	4	4	calm	SE 20	10.4	10.0	15.0	15.0	2	Light Brown
7/17	4	4	SW 5	SW 20	9.8	11.0	15.0	12.0	Trace	Light Brown
7/18	4	2	calm	SW 5	9.4	15.6	11.0	12.0	1	Light Brown
7/19	4	4	SW 5	calm	10.6	10.2	11.0	12.0	2	Light Brown
7/20	4	4	calm	calm	9.6	10.7	11.5	12.0	4	Light Brown
7/21	4	2	calm	S 5	9.8	16.5	11.0	13.0	Trace	Light Brown
7/22	2	2	calm	SW 10-12	8	19.3	11.0	14.5	0	Light Brown

Appendix B.1. Climatological observations, Nushagak River sonar project, 2000.

Date	Cloud Cover[a] 800	Cloud Cover[a] 2000	Wind Direction & Velocity (k/hr) 800	Wind Direction & Velocity (k/hr) 2000	Air Temperature (°C) 800	Air Temperature (°C) 2000	Water Temperature (°C) 800	Water Temperature (°C) 2000	Precipitation (mm)	Water Color
7/23	4	4	SW 10	calm	11.5	18.0	13.0	13.0	3	Light Brown
7/24	4	2	calm	SW 10	11	17.4	13.0	14.0	0	Light Brown
7/25	4	2	calm	SW 10	11.4	16.8	14.0	15.0	0	Light Brown
7/26	1	3	calm	calm	7.9	16.0	14.0	15.0	0	Light Brown
7/27	4	3	SW 5	E 5-7	9.9	15.8	13.0	15.0	0	Light Brown
7/28	2	2	calm	SW 10	8.6	15.5	13.0	15.0	0	Light Brown
7/29	2	1	S 5	SW 10	7.5	12.2	13.0	14.0	0	Light Brown
7/30	4	4	SE 10	SE 20	10.4	11.1	13.0	14.0	3	Light Brown
7/31	4	2	SE 27	SE 5	10.4	13.5	13.0	14.0	7	Light Brown
8/01	3	4	E 7	NW 20	11.8	15.0	13.0	14.0	0	Light Brown
8/02	4	3	E 20-30	SE 30	12.9	16.0	13.0	15.0	6	Light Brown
8/03	2	3	SE 10-20	SE 10-15	11.4	12.2	14.0	12.0	0	Light Brown
8/04	4	4	calm	SE 10-15	10.2	10.9	12.0	12.0	0	Brown
8/05	4	2	calm	SW 5	9.6	12.2	11.0	12.2	0	Brown
8/06	4	4	calm	calm	9.3	13.2	11.0	12.0	0	Brown
8/07	3	3	calm	calm	9.9	13.4	12.0	12.5	0	Brown
8/08	3	3	calm	SW 10-15	9.6	13.6	13.0	13.0	0	Light Brown
8/09	3	3	calm	SW 10	10.9	13.5	12.5	14.0	0	Light Brown
8/10	4	2	calm	SW 5	10	15.0	12.0	14.0	Trace	Light Brown
8/11	2	2	calm	calm	12.1	19.0	13.5	14.0	0	Light Brown
8/12	3	1	calm	W 10	15.1	18.7	15.0	11.5	0	Light Brown
8/13	3	1	W 10-15	W 5-10	13.7	14.3	15.0	15.0	2	Light Brown
8/14	1	1	calm	calm	10.7	17.9	14.0	16.0	0	Light Brown
8/15	1	1	NW 5-10	NW 5-15	10.3	16.7	14.5	15.0	0	Light Brown
8/16	1	1	NE 5	SW 10	8.6	16.0	13.0	14.0	0	Light Brown
8/17	1	2	W 15-28	SW 10-15	12.8	15.6	14.0	14.0	0	Light Brown

[a] 1 = clouds covering less than 1/10 of sky
2 = not more than 1/2
3 = more than 1/2
4 = completely
5 = fog or thick haze

[b] No observation made.

[c] Precipitation less than 1.0 mm

Appendix C.1. Sonar counts by date and sector, right bank inshore strata, Nushagak River sonar project, 2000.

Date	Sector												Daily Total	Cumulative Total
	1	2	3	4	5	6	7	8	9	10	11	12		
6/10	105	54	49	35	21	36	27	35	24	8	3	3	400	400
6/11	15	47	52	107	55	36	44	36	8	18	2	1	421	821
6/12	46	36	43	93	82	64	64	53	18	44	6	8	557	1,378
6/13	24	5	57	179	286	206	263	122	70	121	14	10	1,357	2,735
6/14	74	8	9	44	58	60	121	78	34	77	8	10	581	3,316
6/15	83	4	7	13	23	15	38	9	7	21	0	7	227	3,543
6/16	64	5	20	99	224	226	437	390	241	214	51	138	2,109	5,652
6/17	85	19	38	149	347	365	477	340	179	184	65	25	2,273	7,925
6/18	133	20	66	127	129	103	96	73	28	45	43	9	872	8,797
6/19	117	13	58	411	718	561	677	507	196	146	54	32	3,490	12,287
6/20	96	29	367	1,228	1,332	861	723	530	201	140	89	31	5,627	17,914
6/21	159	33	268	615	611	362	394	296	122	190	159	19	3,228	21,142
6/22	73	42	120	219	307	306	394	387	197	142	38	68	2,293	23,435
6/23	115	39	56	115	168	96	93	76	46	32	17	39	892	24,327
6/24	73	11	29	83	116	74	132	98	69	58	17	16	776	25,103
6/25	270	24	30	221	1,092	1,662	3,177	2,706	1,108	969	318	112	11,689	36,792
6/26	114	8	17	327	1,828	3,043	5,313	3,734	1,253	479	1,437	60	17,613	54,405
6/27	201	21	64	566	1,215	1,085	1,253	947	183	145	113	16	5,809	60,214
6/28	198	49	3,518	11,059	9,675	4,887	4,170	11,723	970	844	328	31	47,452	107,666
6/29	141	458	10,317	15,531	8,804	3,153	2,982	18,864	586	928	547	183	62,494	170,160
6/30	133	103	2,993	7,238	6,531	3,947	2,986	10,534	635	4,568	1,204	33	40,905	211,065
7/01	452	57	846	2,926	3,184	3,263	3,196	5,721	523	1,209	903	152	22,432	233,497
7/02	116	37	175	1,210	2,033	1,796	1,385	1,953	253	710	753	204	10,625	244,122
7/03	93	49	194	930	1,622	1,726	1,316	1,081	205	433	395	153	8,197	252,319
7/04	208	68	325	1,152	1,688	2,033	2,155	1,400	475	253	127	41	9,925	262,244
7/05	191	93	210	576	727	714	821	586	216	109	57	29	4,329	266,573
7/06	48	59	95	265	503	665	794	406	114	59	42	23	3,073	269,646
7/07	34	38	77	107	152	244	355	232	95	47	33	19	1,433	271,079
7/08	102	62	123	198	168	255	344	222	84	51	54	46	1,709	272,788
7/09	174	115	172	340	434	477	427	270	113	106	46	26	2,700	275,488

Appendix C.1. Sonar counts by date and sector, right bank inshore strata, Nushagak River sonar project, 2000.

Date	Sector												Daily Total	Cumulative Total
	1	2	3	4	5	6	7	8	9	10	11	12		
7/10	179	95	338	674	973	967	894	449	201	113	51	15	4,949	280,437
7/11	240	64	101	204	333	280	294	304	132	118	63	4	2,137	282,574
7/12	269	180	257	663	1,168	856	590	349	148	109	72	2	4,663	287,237
7/13	532	1,149	15,876	15,278	4,742	1,229	624	467	221	190	153	6	40,467	327,704
7/14	264	754	8,077	10,202	6,078	2,416	1,430	797	321	260	181	13	30,793	358,497
7/15	170	146	416	670	709	727	583	387	152	127	103	41	4,231	362,728
7/16	162	136	310	786	1,122	757	556	398	147	134	89	18	4,615	367,343
7/17	98	111	396	941	1,210	682	381	263	109	141	106	23	4,461	371,804
7/18	132	141	420	581	675	599	601	435	226	228	151	35	4,224	376,028
7/19	158	91	203	331	388	361	471	345	121	100	71	20	2,660	378,688
7/20	155	92	121	248	487	470	369	253	58	56	51	10	2,370	381,058
7/21	141	122	265	405	456	358	344	268	61	69	74	11	2,574	383,632
7/22	115	115	180	404	326	333	287	235	73	58	71	14	2,211	385,843
7/23	82	157	501	610	438	216	181	102	43	46	35	1	2,412	388,255
7/24	41	122	444	743	744	427	170	92	39	41	34	1	2,898	391,153
7/25	49	56	83	180	294	351	291	176	77	56	49	9	1,671	392,824
7/26	78	105	147	195	262	223	154	102	44	31	48	6	1,395	394,219
7/27	24	48	110	305	407	316	168	94	39	29	41	4	1,585	395,804
7/28	70	137	583	1,521	1,760	1,155	692	442	173	141	114	13	6,801	402,605
7/29	115	117	198	757	1,192	834	541	384	150	208	220	61	4,777	407,382
7/30	50	62	251	923	1,394	675	379	255	142	104	78	10	4,323	411,705
7/31	49	425	2,787	3,788	2,403	1,175	739	512	173	156	113	20	12,340	424,045
8/01	449	2,778	6,615	5,308	3,058	1,518	990	615	272	262	249	50	22,164	446,209
8/02	704	4,897	9,984	6,978	3,463	1,148	418	230	93	49	34	8	28,006	474,215
8/03	1,134	3,478	6,572	5,113	2,637	958	290	130	64	29	18	3	20,426	494,641
8/04	850	3,023	4,490	3,490	1,538	433	161	95	31	16	9	0	14,136	508,777
8/05	191	1,271	1,918	1,201	494	102	34	26	4	2	4	2	5,249	514,026
8/06	27	115	245	364	249	89	18	24	2	8	3	0	1,144	515,170
8/07	239	96	187	175	63	42	29	4	3	1	1	0	840	516,010
8/08	196	81	112	152	61	26	16	13	1	2	1	0	661	516,671

Appendix C.1. Sonar counts by date and sector, right bank inshore strata, Nushagak River sonar project, 2000.

Date	Sector												Daily Total	Cumulative Total
	1	2	3	4	5	6	7	8	9	10	11	12		
8/09	127	40	60	90	37	19	13	10	4	3	0	2	405	517,076
8/10	157	69	62	70	73	46	21	18	7	7	5	12	547	517,623
8/11	129	68	56	41	30	18	19	31	11	3	4	13	423	518,046
8/12	150	102	45	47	44	28	31	15	5	5	5	5	482	518,528
8/13	221	130	117	153	87	31	26	14	5	4	9	10	807	519,335
8/14	141	85	54	48	37	29	37	36	21	14	25	5	532	519,867
8/15	103	68	34	20	28	17	27	13	8	11	5	4	338	520,205
8/16	98	66	33	23	22	17	25	15	14	7	4	5	329	520,534
8/17	115	97	49	51	38	17	24	18	13	7	4	2	435	520,969
Total	11,941	22,495	83,092	109,896	83,653	52,266	47,572	71,825	11,661	15,295	9,271	2,002	520,969	

Appendix C.2. Sonar counts by date and sector, right bank offshore strata, Nushagak River sonar project, 2000.

Date	Sector																Daily Total	Cumulative Total
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16		
6/10	13	2	6	6	1	2	1	2	1	1	0	1	1	0	5	5	47	47
6/11	1	0	0	2	4	6	2	3	4	3	14	4	3	0	0	0	46	93
6/12	2	5	2	3	4	5	4	1	4	2	0	5	4	1	0	0	42	135
6/13	3	11	4	15	16	10	14	10	15	19	18	7	6	3	1	5	157	292
6/14	12	11	5	7	6	4	5	3	1	4	6	5	4	0	2	2	77	369
6/15	3	3	8	4	3	0	2	2	0	6	0	1	2	0	0	0	34	403
6/16	0	27	82	50	13	34	15	10	11	1	6	9	6	0	0	1	265	668
6/17	1	21	65	68	72	75	23	8	67	46	50	26	26	16	3	1	568	1,236
6/18	0	3	16	13	9	12	3	0	1	2	1	0	1	0	0	0	61	1,297
6/19	1	52	95	59	40	71	30	53	32	25	6	3	4	1	1	0	473	1,770
6/20	0	49	195	185	130	157	47	85	92	59	20	5	4	1	0	0	1,029	2,799
6/21	0	43	78	83	46	47	26	36	10	27	5	1	1	0	0	0	403	3,202
6/22	2	25	59	64	47	31	25	24	22	21	24	1	0	0	0	0	345	3,547
6/23	1	19	21	47	19	14	16	5	16	14	6	4	11	9	4	4	210	3,757
6/24	0	11	38	37	41	32	13	17	32	25	3	0	1	0	0	3	253	4,010
6/25	31	164	1,027	1,085	523	338	203	99	131	106	52	22	22	19	12	26	3,860	7,870
6/26	25	261	710	741	365	275	174	85	105	180	147	50	42	21	18	7	3,206	11,076
6/27	0	64	117	144	89	83	72	24	29	55	18	7	4	13	1	0	720	11,796
6/28	13	105	460	355	130	158	99	68	61	67	18	8	7	4	3	0	1,556	13,352
6/29	11	165	465	417	201	184	171	99	106	128	53	46	39	11	0	1	2,097	15,449
6/30	22	133	499	476	248	229	163	119	86	50	25	11	16	9	0	0	2,086	17,535
7/01	6	88	390	368	211	172	154	67	51	42	9	3	1	0	0	0	1,562	19,097
7/02	14	61	213	205	144	109	109	26	32	16	6	3	1	2	1	0	942	20,039
7/03	3	55	157	283	157	114	89	34	37	30	15	2	4	0	1	0	981	21,020
7/04	11	62	331	384	261	160	185	104	37	25	19	2	1	0	0	0	1,582	22,602
7/05	5	77	406	466	249	171	158	43	33	9	0	0	0	0	0	0	1,617	24,219
7/06	6	79	419	323	219	121	66	32	11	8	0	0	0	0	0	0	1,284	25,503
7/07	2	64	222	289	207	118	78	20	24	6	3	0	0	0	0	0	1,033	26,536
7/08	0	33	164	248	161	96	93	24	17	22	0	0	0	0	0	0	858	27,394
7/09	1	58	177	226	126	65	96	39	20	13	0	0	0	0	0	0	821	28,215

Appendix C.2. Sonar counts by date and sector, right bank offshore strata, Nushagak River sonar project, 2000.

Date	Sector																Daily Total	Cumulative Total
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16		
7/10	0	32	110	84	43	26	17	0	28	14	4	0	0	0	0	0	358	28,573
7/11	1	12	38	25	19	11	8	2	0	4	0	0	0	0	0	0	120	28,693
7/12	2	24	61	57	17	10	6	3	1	5	1	0	0	1	0	6	194	28,887
7/13	15	179	225	128	59	49	34	18	24	38	17	15	17	5	9	17	849	29,736
7/14	1	194	370	232	140	62	46	18	34	42	32	23	18	15	17	22	1,266	31,002
7/15	3	63	195	254	76	29	27	12	16	12	8	5	3	2	21	5	731	31,733
7/16	2	64	117	97	72	45	28	27	30	31	28	16	7	11	15	13	603	32,336
7/17	4	54	115	95	46	31	24	26	11	15	13	12	18	8	31	24	527	32,863
7/18	6	71	161	116	73	30	11	11	21	37	25	5	3	11	18	12	611	33,474
7/19	9	70	128	84	72	71	17	8	57	34	16	10	35	10	15	9	645	34,119
7/20	5	36	96	68	46	18	16	7	23	20	5	9	1	7	8	14	379	34,498
7/21	10	79	92	55	24	5	5	5	13	20	17	6	4	7	3	7	352	34,850
7/22	7	46	127	100	46	24	9	9	4	5	8	8	5	4	3	18	423	35,273
7/23	3	35	37	26	13	10	3	5	8	3	15	2	7	1	2	9	179	35,452
7/24	1	18	20	30	14	13	7	2	6	2	2	2	2	1	0	0	120	35,572
7/25	4	29	33	30	13	17	3	6	23	6	2	1	4	5	0	6	182	35,754
7/26	2	12	23	22	17	7	2	0	4	21	6	0	5	1	0	11	133	35,887
7/27	0	4	23	23	10	4	1	2	3	6	3	7	0	0	0	10	96	35,983
7/28	2	87	109	127	138	51	34	15	75	76	35	52	10	5	29	31	876	36,859
7/29	2	34	101	243	154	76	67	30	146	93	52	64	25	6	13	32	1,138	37,997
7/30	5	37	94	109	92	34	22	11	25	40	24	15	5	2	3	15	533	38,530
7/31	40	100	147	195	98	73	32	25	142	93	69	32	29	23	38	61	1,197	39,727
8/01	200	490	426	421	229	148	79	31	91	58	38	39	24	13	11	13	2,311	42,038
8/02	121	329	359	516	288	286	233	55	154	119	76	30	25	14	4	14	2,623	44,661
8/03	129	208	281	377	299	162	113	51	103	108	81	43	33	13	20	32	2,053	46,714
8/04	84	129	118	106	71	58	48	25	90	48	35	23	24	17	24	31	931	47,645
8/05	22	38	44	48	34	36	23	7	67	37	25	11	11	6	30	13	452	48,097
8/06	34	34	24	40	29	11	5	5	21	22	28	28	15	14	16	23	349	48,446
8/07	11	11	14	9	11	11	3	2	13	17	4	3	6	2	3	8	128	48,574
8/08	12	7	9	13	9	12	6	1	18	28	10	2	3	0	2	3	135	48,709

Appendix C.2. Sonar counts by date and sector, right bank offshore strata, Nushagak River sonar project, 2000.

Date	Sector																Daily Total	Cumulative Total
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16		
8/09	2	11	15	21	11	24	1	11	37	23	13	6	4	2	2	5	188	48,897
8/10	1	6	7	6	6	1	1	14	10	33	14	7	19	14	3	2	144	49,041
8/11	1	6	7	7	1	1	4	2	8	9	2	3	5	11	7	16	90	49,131
8/12	2	5	9	6	2	0	2	0	0	0	1	0	2	1	1	0	31	49,162
8/13	1	5	13	5	1	1	1	0	12	9	0	0	4	2	9	6	69	49,231
8/14	7	9	20	20	4	2	11	3	10	18	8	5	5	5	6	15	148	49,379
8/15	5	20	13	14	3	5	5	1	17	6	4	7	4	1	7	11	123	49,502
8/16	4	20	25	3	8	4	1	2	46	36	21	14	14	20	52	30	300	49,802
8/17	1	2	10	8	4	0	4	1	8	7	1	1	1	1	1	3	53	49,855
Total	950	4,361	10,247	10,473	6,034	4,351	3,095	1,595	2,487	2,207	1,267	732	608	371	475	602	49,855	

Appendix C.3. Sonar counts by date and sector, left bank inshore strata, Nushagak River sonar project, 2000.

Date	Sector												Daily Total	Cumulative Total
	1	2	3	4	5	6	7	8	9	10	11	12		
6/10	96	7	22	78	46	31	41	17	10	8	13	10	379	379
6/11	1	3	8	10	19	14	6	5	6	13	3	16	104	483
6/12	27	5	5	14	24	30	37	31	18	6	0	4	201	684
6/13	110	25	4	44	287	263	181	158	70	62	11	36	1,251	1,935
6/14	40	19	6	21	75	77	51	25	13	12	2	14	355	2,290
6/15	11	9	15	38	40	125	26	27	8	9	5	20	333	2,623
6/16	33	14	21	22	72	169	172	113	88	45	28	37	814	3,437
6/17	15	3	6	39	288	414	303	236	174	105	21	43	1,647	5,084
6/18	50	6	9	23	80	268	79	35	35	29	6	26	646	5,730
6/19	57	1	6	14	271	298	325	243	158	80	29	59	1,541	7,271
6/20	32	4	13	157	1,162	687	519	311	188	127	30	61	3,291	10,562
6/21	44	9	33	124	304	313	177	114	58	58	13	45	1,292	11,854
6/22	61	8	2	29	95	46	43	257	82	34	12	17	686	12,540
6/23	19	3	11	26	26	11	21	201	114	20	8	0	460	13,000
6/24	60	15	14	11	10	13	10	31	56	22	14	6	262	13,262
6/25	63	64	2,497	1,594	1,175	829	761	352	550	557	403	367	9,212	22,474
6/26	136	48	4,519	1,541	1,462	1,715	1,433	1,020	683	290	598	734	14,179	36,653
6/27	188	80	285	441	393	230	148	83	65	43	28	21	2,005	38,658
6/28	1,082	121	5,041	1,373	1,057	346	204	117	135	186	205	90	9,957	48,615
6/29	289	115	16,675	1,712	1,574	942	589	446	320	439	407	277	23,785	72,400
6/30	269	176	15,338	1,576	2,084	1,118	645	454	362	389	346	290	23,047	95,447
7/01	214	67	8,724	1,342	1,564	727	376	287	193	419	482	944	15,339	110,786
7/02	145	28	1,782	1,376	999	500	233	159	119	109	112	157	5,719	116,505
7/03	182	61	2,081	2,367	1,357	617	208	163	90	65	64	167	7,422	123,927
7/04	174	80	1,322	1,877	1,698	985	337	234	176	184	207	411	7,685	131,612
7/05	301	259	208	704	153	176	92	88	39	37	36	153	2,246	133,858
7/06	228	87	57	89	114	125	100	85	57	40	39	176	1,197	135,055
7/07	164	94	80	82	49	46	60	31	25	52	33	31	747	135,802
7/08	151	60	7	49	37	57	34	39	31	39	49	57	610	136,412
7/09	58	193	68	31	121	136	80	84	37	17	22	71	918	137,330
7/10	27	105	97	42	40	87	89	56	43	27	48	88	749	138,079

Appendix C.3. Sonar counts by date and sector, left bank inshore strata, Nushagak River sonar project, 2000.

Date	Sector												Daily Total	Cumulative Total
	1	2	3	4	5	6	7	8	9	10	11	12		
7/11	32	110	27	22	47	38	32	75	55	28	124	178	768	138,847
7/12	53	69	25	142	224	92	59	64	35	60	159	141	1,123	139,970
7/13	18	54	72	897	1,707	627	90	25	37	63	244	372	4,206	144,176
7/14	50	57	20	177	773	495	208	120	95	71	266	188	2,520	146,696
7/15	76	36	74	59	117	152	75	84	41	34	91	185	1,024	147,720
7/16	94	34	26	56	134	124	93	86	71	52	29	174	973	148,693
7/17	108	55	87	141	150	116	70	58	64	55	9	44	957	149,650
7/18	89	68	29	48	99	147	86	123	142	106	46	46	1,029	150,679
7/19	97	69	67	32	90	158	146	107	71	29	33	53	952	151,631
7/20	47	15	20	39	110	221	165	96	82	46	29	17	887	152,518
7/21	56	59	28	28	92	142	92	89	102	68	33	37	826	153,344
7/22	21	27	30	46	157	127	65	57	99	72	79	59	839	154,183
7/23	21	35	55	197	488	317	163	124	63	55	95	47	1,660	155,843
7/24	15	46	26	75	163	147	135	95	65	46	76	70	959	156,802
7/25	14	42	49	239	702	519	240	151	133	50	83	42	2,264	159,066
7/26	77	134	141	43	217	235	210	176	163	132	178	65	1,771	160,837
7/27	101	277	619	524	143	122	117	128	130	95	86	101	2,443	163,280
7/28	183	1,615	3,054	2,106	380	312	398	318	167	362	189	247	9,331	172,611
7/29	211	1,783	2,289	1,033	336	428	521	802	283	743	443	293	9,165	181,776
7/30	132	770	2,202	1,107	211	299	634	824	244	613	400	304	7,740	189,516
7/31	50	369	832	505	132	157	409	485	109	234	188	243	3,713	193,229
8/01	1,771	7,598	6,029	2,434	708	551	628	918	451	596	367	888	22,939	216,168
8/02	3,466	6,924	4,309	1,707	839	1,249	1,058	1,492	571	790	364	848	23,617	239,785
8/03	4,597	6,614	2,402	1,262	1,799	923	970	1,245	627	809	417	1,275	22,940	262,725
8/04	4,023	7,005	2,361	633	346	397	427	511	309	599	231	534	17,376	280,101
8/05	1,803	4,924	3,797	489	146	205	245	326	491	842	100	232	13,600	293,701
8/06	190	1,316	1,237	415	160	246	272	335	366	255	97	289	5,178	298,879
8/07	135	269	226	253	142	126	124	201	236	71	62	182	2,027	300,906
8/08	92	398	473	363	101	122	103	245	380	103	72	209	2,661	303,567

Appendix C.3. Sonar counts by date and sector, left bank inshore strata, Nushagak River sonar project, 2000.

Date	Sector												Daily Total	Cumulative Total
	1	2	3	4	5	6	7	8	9	10	11	12		
8/09	63	171	280	282	93	142	139	305	258	180	101	91	2,105	305,672
8/10	28	37	147	247	60	79	93	65	63	82	107	56	1,064	306,736
8/11	53	23	78	144	73	121	116	49	54	55	61	57	884	307,620
8/12	126	53	66	65	27	50	47	29	124	37	55	74	753	308,373
8/13	74	64	80	54	27	58	59	48	107	49	59	62	741	309,114
8/14	86	72	21	155	156	238	192	133	184	105	128	63	1,533	310,647
8/15	32	28	34	86	53	126	120	33	73	52	35	5	677	311,324
8/16	45	24	32	189	82	138	134	90	90	67	54	8	953	312,277
8/17	22	22	14	18	12	24	44	58	93	61	19	16	403	312,680
Total	22,478	43,035	90,314	33,158	27,972	21,165	16,159	15,672	10,731	11,290	8,483	12,223	312,680	

Appendix C.4. Sonar counts by date and sector, left bank offshore strata, Nushagak River sonar project, 2000.

Date	Sector																Daily Total	Cumulative Total
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16		
6/10	10	6	0	1	1	0	0	0	1	2	7	8	20	8	9	16	89	89
6/11	7	4	0	1	0	0	0	0	0	1	0	0	22	22	0	0	57	146
6/12	13	0	0	1	0	0	0	0	0	0	0	0	0	3	0	1	18	164
6/13	53	38	4	3	7	0	0	0	1	1	1	1	0	1	0	3	113	277
6/14	12	10	6	1	1	0	0	0	0	0	1	0	0	0	3	0	34	311
6/15	5	13	7	1	1	1	0	0	0	0	0	0	33	13	23	8	105	416
6/16	39	98	49	29	19	14	6	12	19	6	60	3	29	6	2	34	425	841
6/17	85	193	75	73	73	10	4	0	1	1	8	62	138	0	0	0	723	1,564
6/18	24	66	40	79	74	4	0	0	2	1	130	170	0	34	0	0	624	2,188
6/19	26	221	95	97	114	34	6	1	2	3	0	2	23	17	18	6	665	2,853
6/20	24	232	124	185	115	16	7	0	1	3	2	0	6	20	10	0	745	3,598
6/21	8	65	32	46	54	2	4	2	0	0	1	0	28	44	11	0	297	3,895
6/22	8	24	27	48	43	12	4	0	0	0	0	1	9	7	18	0	201	4,096
6/23	6	30	19	66	17	7	6	0	5	2	0	0	9	0	0	0	167	4,263
6/24	12	42	9	17	20	2	4	4	2	0	0	0	0	0	10	0	122	4,385
6/25	32	344	179	30	7	10	1	0	0	0	0	8	0	26	57	0	694	5,079
6/26	99	814	377	96	44	14	0	0	2	2	0	3	9	34	25	0	1,519	6,598
6/27	8	146	89	31	9	2	0	0	0	0	0	89	0	31	43	0	448	7,046
6/28	16	167	76	15	12	1	0	0	0	0	0	65	0	39	38	0	429	7,475
6/29	66	576	236	60	17	19	0	0	3	0	0	155	5	9	46	0	1,192	8,667
6/30	63	680	533	174	91	22	1	2	11	5	0	174	0	76	88	0	1,920	10,587
7/01	23	351	349	110	37	21	0	1	3	4	1	7	2	50	98	0	1,057	11,644
7/02	22	210	239	69	30	10	1	0	6	2	0	1	6	8	15	0	619	12,263
7/03	19	183	187	66	22	12	1	0	10	6	0	0	9	5	4	0	524	12,787
7/04	13	228	349	142	119	86	5	0	1	0	0	0	0	0	0	0	943	13,730
7/05	9	106	133	58	41	13	7	0	0	0	0	0	0	0	0	0	367	14,097
7/06	17	146	173	104	35	4	15	0	0	0	0	0	0	0	0	0	494	14,591
7/07	17	90	149	84	30	4	13	0	1	1	0	0	0	0	0	0	389	14,980
7/08	2	43	110	71	60	7	47	0	0	1	0	0	0	0	0	0	341	15,321
7/09	1	73	79	13	33	8	28	0	0	0	0	0	0	0	0	0	235	15,556

Appendix C.4. Sonar counts by date and sector, left bank offshore strata, Nushagak River sonar project, 2000.

Date	Sector																Daily Total	Cumulative Total
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16		
7/10	7	64	118	63	17	20	4	0	0	0	0	0	0	0	0	0	293	15,849
7/11	2	56	44	19	5	55	5	0	0	0	0	0	0	0	0	0	186	16,035
7/12	5	37	47	36	11	29	6	0	0	0	0	0	0	0	0	0	171	16,206
7/13	14	92	50	36	31	73	1	0	0	0	0	0	0	0	0	0	297	16,503
7/14	9	138	151	57	28	6	7	0	2	0	0	0	0	0	0	0	398	16,901
7/15	3	44	66	31	14	19	9	0	0	0	0	0	0	0	0	0	186	17,087
7/16	12	59	70	46	35	8	13	0	1	3	0	0	0	0	0	0	247	17,334
7/17	7	55	32	37	11	13	19	0	1	0	0	0	0	0	0	0	175	17,509
7/18	18	64	31	10	23	5	16	0	0	0	0	0	0	0	0	0	167	17,676
7/19	10	53	91	33	20	4	22	0	1	0	0	0	0	0	0	0	234	17,910
7/20	15	28	32	21	12	6	31	0	0	0	0	0	0	0	0	0	145	18,055
7/21	7	27	34	12	14	1	8	0	1	1	0	0	0	0	0	0	105	18,160
7/22	17	46	26	37	14	14	36	0	3	0	3	4	4	6	8	8	226	18,386
7/23	12	13	41	8	9	2	0	0	0	1	0	0	0	0	0	0	86	18,472
7/24	5	13	8	4	4	0	0	0	0	0	0	2	0	0	0	0	36	18,508
7/25	3	4	5	8	6	1	0	0	1	0	0	0	0	0	0	0	28	18,536
7/26	5	4	3	12	1	0	0	0	0	0	7	0	1	0	0	0	33	18,569
7/27	2	24	9	8	2	0	5	7	1	0	0	5	0	0	0	0	63	18,632
7/28	15	67	43	52	15	5	3	17	1	0	0	0	0	0	0	0	218	18,850
7/29	22	200	194	183	53	16	8	1	10	0	0	0	0	0	4	0	691	19,541
7/30	17	241	232	113	43	3	4	10	26	0	0	0	0	0	0	0	689	20,230
7/31	51	197	148	58	19	4	1	12	6	0	0	0	0	0	0	0	496	20,726
8/01	269	533	308	321	56	3	4	0	1	0	0	0	0	0	0	0	1,495	22,221
8/02	205	241	211	257	42	3	1	1	0	0	0	0	0	0	0	0	961	23,182
8/03	134	184	324	476	54	7	3	0	0	0	0	0	0	0	0	0	1,182	24,364
8/04	143	186	175	629	29	6	1	0	0	0	0	0	0	0	0	0	1,169	25,533
8/05	76	99	63	169	78	2	2	0	0	0	0	0	0	0	0	0	489	26,022
8/06	23	30	35	59	14	2	1	0	0	0	0	0	0	0	0	0	164	26,186
8/07	5	14	25	9	2	1	1	0	0	0	0	0	0	0	0	0	57	26,243
8/08	5	12	17	17	2	0	1	0	0	0	0	0	0	0	0	0	54	26,297

Appendix C.4. Sonar counts by date and sector, left bank offshore strata, Nushagak River sonar project, 2000.

Date	Sector																Daily Total	Cumulative Total
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16		
8/09	10	18	17	17	5	1	0	21	15	0	0	0	0	0	0	0	104	26,401
8/10	3	12	16	13	2	4	0	33	0	0	0	0	0	0	0	0	83	26,484
8/11	5	13	5	7	3	1	0	4	0	0	0	0	0	0	0	0	38	26,522
8/12	0	5	4	3	4	0	0	10	0	0	0	0	0	0	0	0	26	26,548
8/13	10	14	9	12	4	0	0	8	0	0	0	0	0	0	0	0	57	26,605
8/14	16	65	49	30	4	1	8	33	0	0	0	0	0	0	0	0	206	26,811
8/15	14	35	31	14	6	5	0	2	0	0	0	0	0	0	0	0	107	26,918
8/16	19	54	29	21	7	3	1	13	0	0	0	0	0	0	0	0	147	27,065
8/17	1	17	15	10	1	0	0	18	0	0	0	0	0	0	0	0	62	27,127
Total	1,935	8,257	6,553	4,719	1,826	658	381	212	141	46	221	760	353	459	530	76	27,127	

Appendix D.1. Drift gillnet catch by range, date, session, drift number, mesh, and species, Nushgak River sonar project, 2000.

Range[a]	Date	Session[b]	Drift Number	Mesh (in)	Fishing Time (min)	Fathom Hours	Catch							
							Total	Chinook	Sockeye	Chum	Pink	Coho	White	Other[c]
1	6/10	3	1	5.125	2.5	0.42	0	0	0	0	0	0	0	0
1	6/10	3	2	5.125	2.5	0.41	0	0	0	0	0	0	0	0
1	6/10	3	9	6.000	2.5	0.42	0	0	0	0	0	0	0	0
1	6/10	3	10	6.000	2.5	0.42	0	0	0	0	0	0	0	0
1	6/10	3	17	8.125	2.5	0.42	0	0	0	0	0	0	0	0
1	6/10	3	18	8.125	2.5	0.42	0	0	0	0	0	0	0	0
1	6/11	1	25	8.125	2.5	0.42	0	0	0	0	0	0	0	0
1	6/11	1	26	8.125	2.5	0.42	0	0	0	0	0	0	0	0
1	6/11	1	33	5.125	2.5	0.42	0	0	0	0	0	0	0	0
1	6/11	1	34	5.125	2.5	0.42	0	0	0	0	0	0	0	0
1	6/11	1	41	6.000	2.5	0.42	0	0	0	0	0	0	0	0
1	6/11	1	42	6.000	2.5	0.42	0	0	0	0	0	0	0	0
1	6/11	3	49	5.125	2.5	0.42	1	1	0	0	0	0	0	0
1	6/11	3	50	5.125	2.5	0.42	0	0	0	0	0	0	0	0
1	6/11	3	57	6.000	2.2	0.37	0	0	0	0	0	0	0	0
1	6/11	3	58	6.000	2.5	0.42	0	0	0	0	0	0	0	0
1	6/11	3	65	8.125	2.5	0.42	0	0	0	0	0	0	0	0
1	6/11	3	66	8.125	2.5	0.42	0	0	0	0	0	0	0	0
1	6/12	1	73	8.125	2.5	0.42	0	0	0	0	0	0	0	0
1	6/12	1	74	8.125	2.5	0.42	0	0	0	0	0	0	0	0
1	6/12	1	81	5.125	2.6	0.43	0	0	0	0	0	0	0	0
1	6/12	1	82	5.125	2.5	0.42	0	0	0	0	0	0	0	0
1	6/12	1	89	6.000	2.5	0.42	1	0	0	1	0	0	0	0
1	6/12	1	90	6.000	2.5	0.42	0	0	0	0	0	0	0	0
1	6/12	3	97	6.000	2.5	0.42	0	0	0	0	0	0	0	0
1	6/12	3	98	6.000	2.5	0.42	0	0	0	0	0	0	0	0
1	6/12	3	105	5.125	2.5	0.42	0	0	0	0	0	0	0	0
1	6/12	3	106	5.125	2.5	0.42	0	0	0	0	0	0	0	0
1	6/12	3	113	8.125	2.5	0.42	0	0	0	0	0	0	0	0
1	6/12	3	114	8.125	2.5	0.42	0	0	0	0	0	0	0	0
1	6/13	1	121	8.125	2.5	0.42	0	0	0	0	0	0	0	0
1	6/13	1	122	8.125	2.5	0.41	0	0	0	0	0	0	0	0
1	6/13	1	129	5.125	3.3	0.55	1	1	0	0	0	0	0	0
1	6/13	1	130	5.125	2.5	0.42	0	0	0	0	0	0	0	0
1	6/13	1	137	6.000	2.6	0.44	2	0	0	2	0	0	0	0
1	6/13	1	138	6.000	2.5	0.42	0	0	0	0	0	0	0	0
1	6/13	3	145	6.000	2.5	0.42	2	2	0	0	0	0	0	0
1	6/13	3	146	6.000	2.5	0.42	0	0	0	0	0	0	0	0
1	6/13	3	153	5.125	2.5	0.42	0	0	0	0	0	0	0	0
1	6/13	3	154	5.125	2.5	0.42	0	0	0	0	0	0	0	0
1	6/13	3	161	8.125	2.5	0.42	0	0	0	0	0	0	0	0
1	6/13	3	162	8.125	2.5	0.42	0	0	0	0	0	0	0	0
1	6/14	1	169	8.125	2.5	0.42	0	0	0	0	0	0	0	0
1	6/14	1	170	8.125	2.5	0.42	0	0	0	0	0	0	0	0
1	6/14	1	177	6.000	2.5	0.42	0	0	0	0	0	0	0	0
1	6/14	1	178	6.000	2.5	0.42	1	1	0	0	0	0	0	0
1	6/14	1	185	5.125	2.5	0.42	0	0	0	0	0	0	0	0
1	6/14	1	186	5.125	2.5	0.42	0	0	0	0	0	0	0	0
1	6/14	3	193	5.125	2.5	0.42	0	0	0	0	0	0	0	0
1	6/14	3	194	5.125	2.6	0.43	0	0	0	0	0	0	0	0
1	6/14	3	201	6.000	2.5	0.42	0	0	0	0	0	0	0	0
1	6/14	3	202	6.000	2.5	0.42	0	0	0	0	0	0	0	0
1	6/14	3	209	8.125	2.5	0.42	0	0	0	0	0	0	0	0
1	6/14	3	210	8.125	2.5	0.42	0	0	0	0	0	0	0	0
1	6/15	1	217	8.125	2.5	0.42	0	0	0	0	0	0	0	0

Appendix D.1. Drift gillnet catch by range, date, session, drift number, mesh, and species, Nushgak River sonar project, 2000.

Range[a]	Date	Session[b]	Drift Number	Mesh (in)	Fishing Time (min)	Fathom Hours	Catch							
							Total	Chinook	Sockeye	Chum	Pink	Coho	White	Other[c]
1	6/15	1	218	8.125	2.5	0.42	0	0	0	0	0	0	0	0
1	6/15	1	225	5.125	2.5	0.42	0	0	0	0	0	0	0	0
1	6/15	1	226	5.125	2.5	0.42	0	0	0	0	0	0	0	0
1	6/15	1	233	6.000	2.5	0.42	0	0	0	0	0	0	0	0
1	6/15	1	234	6.000	2.5	0.42	0	0	0	0	0	0	0	0
1	6/15	3	241	6.000	2.5	0.42	0	0	0	0	0	0	0	0
1	6/15	3	242	6.000	2.5	0.42	0	0	0	0	0	0	0	0
1	6/15	3	249	8.125	2.5	0.42	0	0	0	0	0	0	0	0
1	6/15	3	250	8.125	2.5	0.42	0	0	0	0	0	0	0	0
1	6/15	3	257	5.125	2.5	0.42	0	0	0	0	0	0	0	0
1	6/15	3	258	5.125	2.5	0.42	0	0	0	0	0	0	0	0
1	6/16	1	265	5.125	2.5	0.42	0	0	0	0	0	0	0	0
1	6/16	1	266	5.125	2.5	0.42	0	0	0	0	0	0	0	0
1	6/16	1	273	6.000	2.5	0.42	0	0	0	0	0	0	0	0
1	6/16	1	274	6.000	2.5	0.42	0	0	0	0	0	0	0	0
1	6/16	1	281	8.125	2.5	0.42	0	0	0	0	0	0	0	0
1	6/16	1	282	8.125	2.5	0.42	0	0	0	0	0	0	0	0
1	6/16	3	289	8.125	2.5	0.42	0	0	0	0	0	0	0	0
1	6/16	3	290	8.125	2.5	0.42	0	0	0	0	0	0	0	0
1	6/16	3	297	6.000	2.5	0.42	3	3	0	0	0	0	0	0
1	6/16	3	298	6.000	2.5	0.42	0	0	0	0	0	0	0	0
1	6/16	3	305	5.125	2.5	0.42	0	0	0	0	0	0	0	0
1	6/16	3	306	5.125	2.5	0.42	2	1	0	1	0	0	0	0
1	6/17	1	313	5.125	2.5	0.42	0	0	0	0	0	0	0	0
1	6/17	1	314	5.125	2.5	0.42	4	0	0	4	0	0	0	0
1	6/17	1	321	6.000	2.5	0.42	2	2	0	0	0	0	0	0
1	6/17	1	322	6.000	2.5	0.42	0	0	0	0	0	0	0	0
1	6/17	1	329	8.125	2.5	0.42	0	0	0	0	0	0	0	0
1	6/17	1	330	8.125	2.5	0.42	0	0	0	0	0	0	0	0
1	6/17	3	337	8.125	2.5	0.42	0	0	0	0	0	0	0	0
1	6/17	3	338	8.125	2.5	0.42	0	0	0	0	0	0	0	0
1	6/17	3	345	6.000	2.5	0.42	0	0	0	0	0	0	0	0
1	6/17	3	346	6.000	2.5	0.42	0	0	0	0	0	0	0	0
1	6/17	3	353	5.125	2.5	0.42	6	4	0	2	0	0	0	0
1	6/17	3	354	5.125	2.5	0.42	1	0	0	0	0	0	1	0
1	6/18	1	361	5.125	2.5	0.42	0	0	0	0	0	0	0	0
1	6/18	1	362	5.125	2.5	0.42	0	0	0	0	0	0	0	0
1	6/18	1	369	6.000	2.5	0.42	0	0	0	0	0	0	0	0
1	6/18	1	370	6.000	2.5	0.42	0	0	0	0	0	0	0	0
1	6/18	1	377	8.125	2.5	0.42	0	0	0	0	0	0	0	0
1	6/18	1	378	8.125	2.5	0.42	0	0	0	0	0	0	0	0
1	6/18	3	385	8.125	2.5	0.42	0	0	0	0	0	0	0	0
1	6/18	3	386	8.125	2.5	0.42	0	0	0	0	0	0	0	0
1	6/18	3	393	5.125	2.5	0.42	0	0	0	0	0	0	0	0
1	6/18	3	394	5.125	2.5	0.42	0	0	0	0	0	0	0	0
1	6/18	3	401	6.000	2.5	0.42	0	0	0	0	0	0	0	0
1	6/18	3	402	6.000	2.6	0.44	0	0	0	0	0	0	0	0
1	6/19	3	433	8.125	2.5	0.42	1	1	0	0	0	0	0	0
1	6/19	3	434	8.125	2.5	0.42	0	0	0	0	0	0	0	0
1	6/19	3	441	6.000	2.5	0.42	4	4	0	0	0	0	0	0
1	6/19	3	442	6.000	2.5	0.42	0	0	0	0	0	0	0	0
1	6/19	3	449	5.125	2.5	0.42	7	2	0	5	0	0	0	0
1	6/19	3	450	5.125	2.5	0.42	1	1	0	0	0	0	0	0
1	6/20	1	457	5.125	2.5	0.42	1	1	0	0	0	0	0	0
1	6/20	1	458	5.125	2.5	0.42	0	0	0	0	0	0	0	0

Appendix D.1. Drift gillnet catch by range, date, session, drift number, mesh, and species, Nushgak River sonar project, 2000.

Range[a]	Date	Session[b]	Drift Number	Mesh (in)	Fishing Time (min)	Fathom Hours	Catch							
							Total	Chinook	Sockeye	Chum	Pink	Coho	White	Other[c]
1	6/20	1	465	6.000	2.5	0.42	7	1	3	3	0	0	0	0
1	6/20	1	466	6.000	2.5	0.42	1	0	0	1	0	0	0	0
1	6/20	1	473	8.125	2.5	0.42	0	0	0	0	0	0	0	0
1	6/20	1	474	8.125	2.5	0.42	2	1	0	1	0	0	0	0
1	6/20	2	481	8.125	2.5	0.42	3	1	0	2	0	0	0	0
1	6/20	2	482	8.125	2.5	0.42	0	0	0	0	0	0	0	0
1	6/20	2	489	6.000	2.5	0.42	0	0	0	0	0	0	0	0
1	6/20	2	490	6.000	2.5	0.42	3	2	0	1	0	0	0	0
1	6/20	2	497	5.125	2.5	0.42	1	1	0	0	0	0	0	0
1	6/20	2	498	5.125	2.5	0.42	0	0	0	0	0	0	0	0
1	6/20	3	505	5.125	2.5	0.42	2	0	2	0	0	0	0	0
1	6/20	3	506	5.125	2.5	0.42	0	0	0	0	0	0	0	0
1	6/20	3	513	6.000	2.5	0.42	0	0	0	0	0	0	0	0
1	6/20	3	514	6.000	2.5	0.42	0	0	0	0	0	0	0	0
1	6/20	3	521	8.125	2.5	0.42	1	0	0	1	0	0	0	0
1	6/20	3	522	8.125	2.5	0.42	0	0	0	0	0	0	0	0
1	6/21	1	529	8.125	2.5	0.42	0	0	0	0	0	0	0	0
1	6/21	1	530	8.125	2.5	0.42	0	0	0	0	0	0	0	0
1	6/21	1	537	6.000	2.5	0.42	0	0	0	0	0	0	0	0
1	6/21	1	538	6.000	2.5	0.42	0	0	0	0	0	0	0	0
1	6/21	1	545	5.125	2.5	0.42	1	0	1	0	0	0	0	0
1	6/21	1	546	5.125	2.5	0.42	0	0	0	0	0	0	0	0
1	6/21	2	553	5.125	2.5	0.42	1	0	0	1	0	0	0	0
1	6/21	2	554	5.125	2.5	0.42	0	0	0	0	0	0	0	0
1	6/21	2	561	6.000	2.5	0.42	0	0	0	0	0	0	0	0
1	6/21	2	562	6.000	2.5	0.42	0	0	0	0	0	0	0	0
1	6/21	2	569	8.125	2.5	0.42	0	0	0	0	0	0	0	0
1	6/21	2	570	8.125	2.5	0.42	0	0	0	0	0	0	0	0
1	6/21	3	577	8.125	2.5	0.42	1	1	0	0	0	0	0	0
1	6/21	3	578	8.125	2.5	0.42	1	1	0	0	0	0	0	0
1	6/21	3	585	6.000	2.5	0.42	0	0	0	0	0	0	0	0
1	6/21	3	586	6.000	2.5	0.42	0	0	0	0	0	0	0	0
1	6/21	3	593	5.125	2.5	0.42	0	0	0	0	0	0	0	0
1	6/21	3	594	5.125	2.5	0.42	0	0	0	0	0	0	0	0
1	6/22	1	601	5.125	2.5	0.42	1	1	0	0	0	0	0	0
1	6/22	1	602	5.125	2.5	0.42	0	0	0	0	0	0	0	0
1	6/22	1	609	6.000	2.5	0.42	2	0	0	2	0	0	0	0
1	6/22	1	610	6.000	2.5	0.42	0	0	0	0	0	0	0	0
1	6/22	1	617	8.125	2.5	0.42	1	0	0	1	0	0	0	0
1	6/22	1	618	8.125	2.5	0.42	0	0	0	0	0	0	0	0
1	6/22	2	625	8.125	2.5	0.42	0	0	0	0	0	0	0	0
1	6/22	2	626	8.125	2.5	0.42	0	0	0	0	0	0	0	0
1	6/22	2	633	6.000	2.5	0.42	0	0	0	0	0	0	0	0
1	6/22	2	634	6.000	2.5	0.42	4	1	2	1	0	0	0	0
1	6/22	2	641	5.125	2.5	0.42	2	1	0	1	0	0	0	0
1	6/22	2	642	5.125	2.5	0.42	0	0	0	0	0	0	0	0
1	6/22	3	649	5.125	2.5	0.42	0	0	0	0	0	0	0	0
1	6/22	3	650	5.125	2.5	0.42	0	0	0	0	0	0	0	0
1	6/22	3	657	6.000	2.7	0.44	0	0	0	0	0	0	0	0
1	6/22	3	658	6.000	2.5	0.42	0	0	0	0	0	0	0	0
1	6/22	3	665	8.125	2.5	0.42	0	0	0	0	0	0	0	0
1	6/22	3	666	8.125	2.5	0.42	0	0	0	0	0	0	0	0
1	6/23	1	673	5.125	2.5	0.42	2	0	1	1	0	0	0	0
1	6/23	1	674	5.125	2.5	0.42	0	0	0	0	0	0	0	0
1	6/23	1	681	6.000	2.5	0.42	0	0	0	0	0	0	0	0

Appendix D.1. Drift gillnet catch by range, date, session, drift number, mesh, and species, Nushgak River sonar project, 2000.

Range[a]	Date	Session[b]	Drift Number	Mesh (in)	Fishing Time (min)	Fathom Hours	Catch							
							Total	Chinook	Sockeye	Chum	Pink	Coho	White	Other[c]
1	6/23	1	682	6.000	2.5	0.42	0	0	0	0	0	0	0	0
1	6/23	1	689	8.125	2.5	0.42	0	0	0	0	0	0	0	0
1	6/23	1	690	8.125	2.5	0.42	0	0	0	0	0	0	0	0
1	6/23	2	697	8.125	2.5	0.42	0	0	0	0	0	0	0	0
1	6/23	2	698	8.125	2.5	0.42	0	0	0	0	0	0	0	0
1	6/23	2	705	6.000	2.5	0.42	5	0	1	4	0	0	0	0
1	6/23	2	706	6.000	2.5	0.42	0	0	0	0	0	0	0	0
1	6/23	2	713	5.125	2.5	0.42	0	0	0	0	0	0	0	0
1	6/23	2	714	5.125	2.5	0.42	0	0	0	0	0	0	0	0
1	6/24	1	745	8.125	2.5	0.42	0	0	0	0	0	0	0	0
1	6/24	1	746	8.125	2.5	0.42	0	0	0	0	0	0	0	0
1	6/24	1	753	6.000	2.5	0.42	0	0	0	0	0	0	0	0
1	6/24	1	754	6.000	2.5	0.42	0	0	0	0	0	0	0	0
1	6/24	1	761	5.125	2.5	0.42	0	0	0	0	0	0	0	0
1	6/24	1	762	5.125	2.5	0.42	0	0	0	0	0	0	0	0
1	6/24	2	769	5.125	2.5	0.42	0	0	0	0	0	0	0	0
1	6/24	2	770	5.125	2.5	0.42	0	0	0	0	0	0	0	0
1	6/24	2	777	6.000	2.0	0.33	1	1	0	0	0	0	0	0
1	6/24	2	778	6.000	2.5	0.42	0	0	0	0	0	0	0	0
1	6/24	2	785	8.125	2.5	0.42	0	0	0	0	0	0	0	0
1	6/24	2	786	8.125	2.5	0.42	1	0	0	1	0	0	0	0
1	6/25	1	817	5.125	2.5	0.42	0	0	0	0	0	0	0	0
1	6/25	1	818	5.125	2.5	0.42	2	2	0	0	0	0	0	0
1	6/25	1	825	6.000	2.5	0.42	4	3	0	1	0	0	0	0
1	6/25	1	826	6.000	2.5	0.42	0	0	0	0	0	0	0	0
1	6/25	1	833	8.125	2.5	0.42	0	0	0	0	0	0	0	0
1	6/25	1	834	8.125	2.5	0.42	1	1	0	0	0	0	0	0
1	6/25	2	841	8.125	2.5	0.42	0	0	0	0	0	0	0	0
1	6/25	2	842	8.125	2.5	0.42	1	0	0	1	0	0	0	0
1	6/25	2	849	6.000	2.5	0.42	0	0	0	0	0	0	0	0
1	6/25	2	850	6.000	2.5	0.42	2	0	0	2	0	0	0	0
1	6/25	2	857	5.125	2.5	0.42	2	2	0	0	0	0	0	0
1	6/25	2	858	5.125	2.5	0.42	1	0	0	1	0	0	0	0
1	6/25	3	865	5.125	2.5	0.42	3	2	0	1	0	0	0	0
1	6/25	3	866	5.125	2.5	0.42	6	3	0	3	0	0	0	0
1	6/25	3	873	6.000	2.6	0.43	2	2	0	0	0	0	0	0
1	6/25	3	874	6.000	2.2	0.36	11	3	0	8	0	0	0	0
1	6/25	3	881	8.125	2.0	0.33	7	5	0	2	0	0	0	0
1	6/25	3	882	8.125	2.5	0.42	0	0	0	0	0	0	0	0
1	6/26	1	889	8.125	2.5	0.42	1	0	0	1	0	0	0	0
1	6/26	1	890	8.125	2.5	0.42	0	0	0	0	0	0	0	0
1	6/26	1	897	6.000	2.5	0.42	7	1	0	6	0	0	0	0
1	6/26	1	898	6.000	2.5	0.42	1	0	1	0	0	0	0	0
1	6/26	1	905	5.125	2.5	0.42	5	2	0	3	0	0	0	0
1	6/26	1	906	5.125	2.5	0.42	2	1	0	1	0	0	0	0
1	6/26	2	913	5.125	2.6	0.43	9	2	0	7	0	0	0	0
1	6/26	2	914	5.125	2.5	0.42	0	0	0	0	0	0	0	0
1	6/26	2	921	6.000	2.5	0.42	5	4	0	1	0	0	0	0
1	6/26	2	922	6.000	2.5	0.42	2	2	0	0	0	0	0	0
1	6/26	5	929	8.125	2.4	0.39	2	2	0	0	0	0	0	0
1	6/26	5	930	8.125	2.5	0.42	0	0	0	0	0	0	0	0
1	6/26	3	937	8.125	2.5	0.42	0	0	0	0	0	0	0	0
1	6/26	3	938	8.125	2.5	0.42	2	0	0	2	0	0	0	0
1	6/26	3	945	6.000	2.6	0.43	1	0	0	1	0	0	0	0
1	6/26	3	946	6.000	2.6	0.43	0	0	0	0	0	0	0	0

Appendix D.1. Drift gillnet catch by range, date, session, drift number, mesh, and species, Nushgak River sonar project, 2000.

Range[a]	Date	Session[b]	Drift Number	Mesh (in)	Fishing Time (min)	Fathom Hours	Catch							
							Total	Chinook	Sockeye	Chum	Pink	Coho	White	Other[c]
1	6/26	3	953	5.125	2.5	0.42	0	0	0	0	0	0	0	0
1	6/26	3	954	5.125	2.5	0.42	0	0	0	0	0	0	0	0
1	6/27	1	961	6.000	2.4	0.40	2	0	2	0	0	0	0	0
1	6/27	1	962	6.000	2.5	0.42	0	0	0	0	0	0	0	0
1	6/27	1	969	5.125	2.0	0.33	5	0	5	0	0	0	0	0
1	6/27	1	970	5.125	2.5	0.42	0	0	0	0	0	0	0	0
1	6/27	1	977	8.125	2.5	0.42	2	0	2	0	0	0	0	0
1	6/27	1	978	8.125	2.5	0.42	4	0	3	1	0	0	0	0
1	6/27	2	985	8.125	2.6	0.43	0	0	0	0	0	0	0	0
1	6/27	2	986	8.125	2.5	0.42	0	0	0	0	0	0	0	0
1	6/27	2	993	6.000	2.0	0.33	6	0	3	3	0	0	0	0
1	6/27	2	994	6.000	2.5	0.42	0	0	0	0	0	0	0	0
1	6/27	2	1,001	5.125	2.5	0.42	5	0	4	1	0	0	0	0
1	6/27	2	1,002	5.125	2.5	0.42	0	0	0	0	0	0	0	0
1	6/27	3	1,009	5.125	2.5	0.42	2	0	2	0	0	0	0	0
1	6/27	3	1,010	5.125	2.5	0.42	0	0	0	0	0	0	0	0
1	6/27	3	1,017	6.000	2.5	0.42	1	0	0	1	0	0	0	0
1	6/27	3	1,018	6.000	2.5	0.42	3	1	0	2	0	0	0	0
1	6/27	3	1,025	8.125	2.5	0.42	0	0	0	0	0	0	0	0
1	6/27	3	1,026	8.125	2.5	0.42	0	0	0	0	0	0	0	0
1	6/28	1	1,033	8.125	2.5	0.42	0	0	0	0	0	0	0	0
1	6/28	1	1,034	8.125	2.5	0.42	0	0	0	0	0	0	0	0
1	6/28	1	1,041	6.000	2.5	0.42	0	0	0	0	0	0	0	0
1	6/28	1	1,042	6.000	2.5	0.42	0	0	0	0	0	0	0	0
1	6/28	1	1,049	5.125	2.5	0.42	0	0	0	0	0	0	0	0
1	6/28	1	1,050	5.125	2.5	0.42	0	0	0	0	0	0	0	0
1	6/28	2	1,057	5.125	2.5	0.42	12	0	10	2	0	0	0	0
1	6/28	2	1,058	5.125	2.5	0.42	0	0	0	0	0	0	0	0
1	6/28	2	1,065	6.000	2.5	0.42	22	0	22	0	0	0	0	0
1	6/28	2	1,066	6.000	2.5	0.42	0	0	0	0	0	0	0	0
1	6/28	2	1,073	8.125	2.5	0.42	8	0	2	6	0	0	0	0
1	6/28	2	1,074	8.125	2.5	0.42	6	0	3	3	0	0	0	0
1	6/28	3	1,079	8.125	2.5	0.42	3	0	2	1	0	0	0	0
1	6/28	3	1,080	8.125	2.5	0.42	0	0	0	0	0	0	0	0
1	6/28	3	1,085	5.125	2.0	0.33	10	0	10	0	0	0	0	0
1	6/28	3	1,086	5.125	2.5	0.42	4	0	4	0	0	0	0	0
1	6/28	3	1,091	6.000	1.5	0.25	5	1	3	1	0	0	0	0
1	6/28	3	1,092	6.000	2.5	0.42	0	0	0	0	0	0	0	0
1	6/29	1	1,103	5.125	2.5	0.42	2	0	2	0	0	0	0	0
1	6/29	1	1,104	5.125	2.5	0.42	3	0	3	0	0	0	0	0
1	6/29	1	1,111	6.000	2.0	0.33	6	0	4	2	0	0	0	0
1	6/29	1	1,112	6.000	2.5	0.42	4	0	4	0	0	0	0	0
1	6/29	1	1,119	8.125	2.5	0.42	5	0	5	0	0	0	0	0
1	6/29	1	1,120	8.125	2.0	0.33	4	0	3	1	0	0	0	0
1	6/29	2	1,127	8.125	2.5	0.42	0	0	0	0	0	0	0	0
1	6/29	2	1,128	8.125	2.5	0.42	2	0	2	0	0	0	0	0
1	6/29	2	1,135	6.000	2.5	0.42	14	0	5	9	0	0	0	0
1	6/29	2	1,136	6.000	2.5	0.42	1	0	1	0	0	0	0	0
1	6/29	2	1,143	5.125	2.0	0.33	9	0	7	2	0	0	0	0
1	6/29	2	1,144	5.125	2.5	0.42	5	0	5	0	0	0	0	0
1	6/29	3	1,151	5.125	2.0	0.33	12	0	9	3	0	0	0	0
1	6/29	3	1,152	5.125	2.5	0.42	2	0	1	1	0	0	0	0
1	6/29	3	1,159	6.000	2.5	0.42	12	0	10	2	0	0	0	0
1	6/29	3	1,160	6.000	2.0	0.33	1	0	1	0	0	0	0	0
1	6/29	3	1,167	8.125	2.5	0.42	5	2	1	2	0	0	0	0

Appendix D.1. Drift gillnet catch by range, date, session, drift number, mesh, and species, Nushgak River sonar project, 2000.

Range[a]	Date	Session[b]	Drift Number	Mesh (in)	Fishing Time (min)	Fathom Hours	Catch							
							Total	Chinook	Sockeye	Chum	Pink	Coho	White	Other[c]
1	6/29	3	1,168	8.125	2.5	0.42	3	0	3	0	0	0	0	0
1	6/30	1	1,175	8.125	2.5	0.42	3	0	3	0	0	0	0	0
1	6/30	1	1,176	8.125	2.5	0.42	1	0	1	0	0	0	0	0
1	6/30	1	1,183	5.125	2.5	0.42	11	0	9	2	0	0	0	0
1	6/30	1	1,184	5.125	2.5	0.42	2	0	2	0	0	0	0	0
1	6/30	1	1,191	6.000	2.5	0.42	3	0	2	1	0	0	0	0
1	6/30	1	1,192	6.000	2.9	0.48	2	1	1	0	0	0	0	0
1	6/30	2	1,199	6.000	2.5	0.42	11	0	8	3	0	0	0	0
1	6/30	2	1,200	6.000	2.5	0.42	0	0	0	0	0	0	0	0
1	6/30	2	1,207	5.125	2.5	0.42	10	0	5	5	0	0	0	0
1	6/30	2	1,208	5.125	2.0	0.33	5	0	5	0	0	0	0	0
1	6/30	2	1,215	8.125	2.0	0.33	5	1	4	0	0	0	0	0
1	6/30	2	1,216	8.125	2.0	0.33	2	0	2	0	0	0	0	0
1	6/30	3	1,223	8.125	2.5	0.42	0	0	0	0	0	0	0	0
1	6/30	3	1,224	8.125	2.5	0.42	3	0	3	0	0	0	0	0
1	6/30	3	1,229	5.125	2.0	0.33	6	0	6	0	0	0	0	0
1	6/30	3	1,230	5.125	2.5	0.42	0	0	0	0	0	0	0	0
1	6/30	3	1,235	6.000	2.5	0.42	3	0	3	0	0	0	0	0
1	6/30	3	1,236	6.000	2.5	0.42	0	0	0	0	0	0	0	0
1	7/01	1	1,241	6.000	2.5	0.42	1	0	1	0	0	0	0	0
1	7/01	1	1,242	6.000	2.5	0.42	3	1	2	0	0	0	0	0
1	7/01	1	1,249	5.125	2.5	0.42	8	1	7	0	0	0	0	0
1	7/01	1	1,250	5.125	2.5	0.42	4	0	3	1	0	0	0	0
1	7/01	1	1,257	8.125	2.5	0.42	3	0	1	2	0	0	0	0
1	7/01	1	1,258	8.125	2.5	0.42	2	1	1	0	0	0	0	0
1	7/01	2	1,265	8.125	2.5	0.42	1	0	0	1	0	0	0	0
1	7/01	2	1,266	8.125	2.6	0.43	1	0	1	0	0	0	0	0
1	7/01	2	1,273	6.000	2.5	0.42	3	0	3	0	0	0	0	0
1	7/01	2	1,274	6.000	2.5	0.42	0	0	0	0	0	0	0	0
1	7/01	2	1,281	5.125	2.2	0.36	2	0	2	0	0	0	0	0
1	7/01	2	1,282	5.125	2.2	0.37	6	0	6	0	0	0	0	0
1	7/01	3	1,289	5.125	2.5	0.42	4	0	2	2	0	0	0	0
1	7/01	3	1,290	5.125	2.5	0.42	0	0	0	0	0	0	0	0
1	7/01	3	1,297	6.000	2.5	0.42	6	1	5	0	0	0	0	0
1	7/01	3	1,298	6.000	2.5	0.42	1	1	0	0	0	0	0	0
1	7/01	3	1,305	8.125	2.5	0.42	0	0	0	0	0	0	0	0
1	7/01	3	1,306	8.125	2.5	0.42	0	0	0	0	0	0	0	0
1	7/02	1	1,313	8.125	2.5	0.42	0	0	0	0	0	0	0	0
1	7/02	1	1,314	8.125	2.5	0.42	0	0	0	0	0	0	0	0
1	7/02	1	1,321	5.125	2.5	0.42	3	0	3	0	0	0	0	0
1	7/02	1	1,322	5.125	2.5	0.42	2	2	0	0	0	0	0	0
1	7/02	2	1,327	6.000	2.5	0.42	1	0	1	0	0	0	0	0
1	7/02	2	1,328	6.000	2.5	0.42	1	1	0	0	0	0	0	0
1	7/02	1	1,329	6.000	2.5	0.42	4	0	4	0	0	0	0	0
1	7/02	1	1,330	6.000	2.5	0.42	0	0	0	0	0	0	0	0
1	7/02	2	1,335	5.125	2.5	0.42	0	0	0	0	0	0	0	0
1	7/02	2	1,336	5.125	2.5	0.42	2	0	2	0	0	0	0	0
1	7/02	2	1,343	8.125	2.5	0.42	1	1	0	0	0	0	0	0
1	7/02	2	1,344	8.125	2.5	0.42	0	0	0	0	0	0	0	0
1	7/02	3	1,351	8.125	2.5	0.42	0	0	0	0	0	0	0	0
1	7/02	3	1,352	8.125	2.5	0.42	2	0	2	0	0	0	0	0
1	7/02	3	1,359	5.125	2.5	0.42	2	0	2	0	0	0	0	0
1	7/02	3	1,360	5.125	2.5	0.42	2	1	1	0	0	0	0	0
1	7/02	3	1,367	6.000	2.5	0.42	3	0	3	0	0	0	0	0
1	7/02	3	1,368	6.000	2.5	0.42	1	0	1	0	0	0	0	0

Appendix D.1. Drift gillnet catch by range, date, session, drift number, mesh, and species, Nushgak River sonar project, 2000.

Range[a]	Date	Session[b]	Drift Number	Mesh (in)	Fishing Time (min)	Fathom Hours	Catch							
							Total	Chinook	Sockeye	Chum	Pink	Coho	White	Other[c]
1	7/03	1	1,375	6.000	2.5	0.42	1	1	0	0	0	0	0	0
1	7/03	1	1,376	6.000	2.5	0.42	1	0	1	0	0	0	0	0
1	7/03	1	1,383	5.125	2.5	0.42	1	0	1	0	0	0	0	0
1	7/03	1	1,384	5.125	2.5	0.42	2	1	1	0	0	0	0	0
1	7/03	1	1,391	8.125	2.5	0.42	1	1	0	0	0	0	0	0
1	7/03	1	1,392	8.125	2.5	0.42	1	0	1	0	0	0	0	0
1	7/03	2	1,399	8.125	2.5	0.42	0	0	0	0	0	0	0	0
1	7/03	2	1,400	8.125	2.5	0.42	0	0	0	0	0	0	0	0
1	7/03	2	1,407	5.125	2.5	0.42	3	0	2	1	0	0	0	0
1	7/03	2	1,408	5.125	2.5	0.42	3	1	2	0	0	0	0	0
1	7/03	2	1,415	6.000	2.5	0.42	0	0	0	0	0	0	0	0
1	7/03	2	1,416	6.000	2.5	0.42	0	0	0	0	0	0	0	0
1	7/03	3	1,423	6.000	2.5	0.42	1	1	0	0	0	0	0	0
1	7/03	3	1,424	6.000	2.5	0.42	2	1	0	1	0	0	0	0
1	7/03	3	1,431	5.125	2.5	0.42	2	0	1	1	0	0	0	0
1	7/03	3	1,432	5.125	2.5	0.42	9	0	9	0	0	0	0	0
1	7/03	3	1,439	8.125	2.5	0.42	1	0	1	0	0	0	0	0
1	7/03	3	1,440	8.125	2.5	0.42	0	0	0	0	0	0	0	0
1	7/04	1	1,347	8.125	2.5	0.42	1	0	1	0	0	0	0	0
1	7/04	1	1,348	8.125	2.5	0.42	0	0	0	0	0	0	0	0
1	7/04	1	1,355	5.125	2.5	0.42	6	0	3	3	0	0	0	0
1	7/04	1	1,356	5.125	2.5	0.42	1	0	1	0	0	0	0	0
1	7/04	1	1,363	6.000	2.5	0.42	0	0	0	0	0	0	0	0
1	7/04	1	1,364	6.000	2.5	0.42	5	2	3	0	0	0	0	0
1	7/04	2	1,471	6.000	2.5	0.42	3	0	3	0	0	0	0	0
1	7/04	2	1,472	6.000	2.5	0.42	0	0	0	0	0	0	0	0
1	7/04	2	1,479	5.125	2.0	0.33	4	2	1	1	0	0	0	0
1	7/04	2	1,480	5.125	2.5	0.42	2	0	1	1	0	0	0	0
1	7/04	2	1,487	8.125	2.5	0.42	0	0	0	0	0	0	0	0
1	7/04	2	1,488	8.125	2.5	0.42	0	0	0	0	0	0	0	0
1	7/04	3	1,495	8.125	2.5	0.42	1	0	1	0	0	0	0	0
1	7/04	3	1,496	8.125	2.5	0.42	0	0	0	0	0	0	0	0
1	7/04	3	1,503	5.125	2.5	0.42	1	0	1	0	0	0	0	0
1	7/04	3	1,504	5.125	2.5	0.42	0	0	0	0	0	0	0	0
1	7/04	3	1,511	6.000	2.5	0.42	11	0	7	4	0	0	0	0
1	7/04	3	1,512	6.000	2.5	0.42	0	0	0	0	0	0	0	0
1	7/05	1	1,519	6.000	2.5	0.42	1	0	1	0	0	0	0	0
1	7/05	1	1,520	6.000	2.5	0.42	0	0	0	0	0	0	0	0
1	7/05	1	1,527	5.125	2.5	0.42	1	0	1	0	0	0	0	0
1	7/05	1	1,528	5.125	2.5	0.42	0	0	0	0	0	0	0	0
1	7/05	1	1,535	8.125	2.5	0.42	0	0	0	0	0	0	0	0
1	7/05	1	1,536	8.125	2.5	0.42	0	0	0	0	0	0	0	0
1	7/05	2	1,543	8.125	2.5	0.42	0	0	0	0	0	0	0	0
1	7/05	2	1,544	8.125	2.5	0.42	0	0	0	0	0	0	0	0
1	7/05	2	1,551	5.125	2.6	0.43	0	0	0	0	0	0	0	0
1	7/05	2	1,552	5.125	2.5	0.42	0	0	0	0	0	0	0	0
1	7/05	2	1,559	6.000	2.5	0.42	0	0	0	0	0	0	0	0
1	7/05	2	1,560	6.000	2.6	0.43	0	0	0	0	0	0	0	0
1	7/05	3	1,567	6.000	2.5	0.42	1	0	1	0	0	0	0	0
1	7/05	3	1,568	6.000	2.5	0.42	0	0	0	0	0	0	0	0
1	7/05	3	1,575	5.125	2.5	0.42	2	1	1	0	0	0	0	0
1	7/05	3	1,576	5.125	2.5	0.42	0	0	0	0	0	0	0	0
1	7/05	3	1,583	8.125	2.5	0.42	0	0	0	0	0	0	0	0
1	7/05	3	1,584	8.125	2.5	0.42	0	0	0	0	0	0	0	0
1	7/06	1	1,591	8.125	2.5	0.42	1	0	1	0	0	0	0	0

Appendix D.1. Drift gillnet catch by range, date, session, drift number, mesh, and species, Nushgak River sonar project, 2000.

Range[a]	Date	Session[b]	Drift Number	Mesh (in)	Fishing Time (min)	Fathom Hours	Catch							
							Total	Chinook	Sockeye	Chum	Pink	Coho	White	Other[c]
1	7/06	1	1,592	8.125	2.5	0.42	0	0	0	0	0	0	0	0
1	7/06	1	1,599	5.125	2.5	0.42	0	0	0	0	0	0	0	0
1	7/06	1	1,600	5.125	2.5	0.42	0	0	0	0	0	0	0	0
1	7/06	1	1,607	6.000	2.5	0.42	0	0	0	0	0	0	0	0
1	7/06	1	1,608	6.000	2.5	0.42	0	0	0	0	0	0	0	0
1	7/06	2	1,615	6.000	2.5	0.42	0	0	0	0	0	0	0	0
1	7/06	2	1,616	6.000	2.5	0.42	2	2	0	0	0	0	0	0
1	7/06	2	1,623	5.125	2.5	0.42	2	0	2	0	0	0	0	0
1	7/06	2	1,624	5.125	2.5	0.42	0	0	0	0	0	0	0	0
1	7/06	2	1,631	8.125	2.5	0.42	0	0	0	0	0	0	0	0
1	7/06	2	1,632	8.125	2.5	0.42	0	0	0	0	0	0	0	0
1	7/06	3	1,639	8.125	2.5	0.42	0	0	0	0	0	0	0	0
1	7/06	3	1,640	8.125	2.5	0.42	0	0	0	0	0	0	0	0
1	7/06	3	1,647	5.125	2.5	0.42	1	0	1	0	0	0	0	0
1	7/06	3	1,648	5.125	2.5	0.42	0	0	0	0	0	0	0	0
1	7/06	3	1,655	6.000	2.5	0.42	0	0	0	0	0	0	0	0
1	7/06	3	1,656	6.000	2.5	0.42	0	0	0	0	0	0	0	0
1	7/07	1	1,663	5.125	2.5	0.42	0	0	0	0	0	0	0	0
1	7/07	1	1,664	5.125	2.5	0.42	2	2	0	0	0	0	0	0
1	7/07	1	1,671	6.000	2.5	0.42	0	0	0	0	0	0	0	0
1	7/07	1	1,672	6.000	2.5	0.42	0	0	0	0	0	0	0	0
1	7/07	1	1,679	8.125	2.5	0.42	0	0	0	0	0	0	0	0
1	7/07	1	1,680	8.125	2.5	0.42	0	0	0	0	0	0	0	0
1	7/07	3	1,711	6.000	2.5	0.42	0	0	0	0	0	0	0	0
1	7/07	3	1,712	6.000	2.5	0.42	0	0	0	0	0	0	0	0
1	7/07	3	1,719	8.125	2.5	0.42	0	0	0	0	0	0	0	0
1	7/07	3	1,720	8.125	2.5	0.42	0	0	0	0	0	0	0	0
1	7/07	3	1,727	5.125	2.5	0.42	0	0	0	0	0	0	0	0
1	7/07	3	1,728	5.125	2.5	0.42	0	0	0	0	0	0	0	0
1	7/08	1	1,735	5.125	2.5	0.42	1	0	1	0	0	0	0	0
1	7/08	1	1,736	5.125	2.5	0.42	0	0	0	0	0	0	0	0
1	7/08	1	1,743	6.000	2.5	0.42	1	0	0	1	0	0	0	0
1	7/08	1	1,744	6.000	2.5	0.42	0	0	0	0	0	0	0	0
1	7/08	1	1,751	8.125	2.5	0.42	0	0	0	0	0	0	0	0
1	7/08	1	1,752	8.125	2.5	0.42	0	0	0	0	0	0	0	0
1	7/08	2	1,759	8.125	2.5	0.42	0	0	0	0	0	0	0	0
1	7/08	2	1,760	8.125	2.5	0.42	0	0	0	0	0	0	0	0
1	7/08	2	1,767	5.125	2.5	0.42	1	1	0	0	0	0	0	0
1	7/08	2	1,768	5.125	2.5	0.42	1	1	0	0	0	0	0	0
1	7/08	2	1,775	6.000	2.5	0.42	0	0	0	0	0	0	0	0
1	7/08	2	1,776	6.000	2.5	0.42	0	0	0	0	0	0	0	0
1	7/08	3	1,783	6.000	2.5	0.42	0	0	0	0	0	0	0	0
1	7/08	3	1,784	6.000	2.5	0.42	0	0	0	0	0	0	0	0
1	7/08	3	1,791	5.125	2.5	0.42	0	0	0	0	0	0	0	0
1	7/08	3	1,792	5.125	2.5	0.42	0	0	0	0	0	0	0	0
1	7/08	3	1,799	8.125	2.5	0.42	0	0	0	0	0	0	0	0
1	7/08	3	1,800	8.125	2.5	0.42	1	0	1	0	0	0	0	0
1	7/09	1	1,807	8.125	2.5	0.42	0	0	0	0	0	0	0	0
1	7/09	1	1,808	8.125	2.5	0.42	0	0	0	0	0	0	0	0
1	7/09	1	1,815	6.000	2.5	0.42	0	0	0	0	0	0	0	0
1	7/09	1	1,816	6.000	2.5	0.42	0	0	0	0	0	0	0	0
1	7/09	1	1,823	5.125	2.5	0.42	0	0	0	0	0	0	0	0
1	7/09	1	1,824	5.125	2.5	0.42	0	0	0	0	0	0	0	0
1	7/09	2	1,831	5.125	2.5	0.42	0	0	0	0	0	0	0	0
1	7/09	2	1,832	5.125	2.5	0.42	0	0	0	0	0	0	0	0

Appendix D.1. Drift gillnet catch by range, date, session, drift number, mesh, and species, Nushgak River sonar project, 2000.

Range[a]	Date	Session[b]	Drift Number	Mesh (in)	Fishing Time (min)	Fathom Hours	Catch							
							Total	Chinook	Sockeye	Chum	Pink	Coho	White	Other[c]
1	7/09	2	1,839	8.125	2.5	0.42	0	0	0	0	0	0	0	0
1	7/09	2	1,840	8.125	2.6	0.43	0	0	0	0	0	0	0	0
1	7/09	2	1,847	6.000	2.5	0.42	0	0	0	0	0	0	0	0
1	7/09	2	1,848	6.000	2.5	0.42	0	0	0	0	0	0	0	0
1	7/09	3	1,855	6.000	2.5	0.42	0	0	0	0	0	0	0	0
1	7/09	3	1,856	6.000	2.5	0.42	0	0	0	0	0	0	0	0
1	7/09	3	1,863	5.125	2.5	0.42	0	0	0	0	0	0	0	0
1	7/09	3	1,864	5.125	2.5	0.42	0	0	0	0	0	0	0	0
1	7/09	3	1,871	8.125	2.5	0.42	0	0	0	0	0	0	0	0
1	7/09	3	1,872	8.125	2.5	0.42	0	0	0	0	0	0	0	0
1	7/10	1	1,879	8.125	2.5	0.42	0	0	0	0	0	0	0	0
1	7/10	1	1,880	8.125	2.5	0.42	0	0	0	0	0	0	0	0
1	7/10	1	1,887	5.125	2.5	0.42	1	1	0	0	0	0	0	0
1	7/10	1	1,888	5.125	2.5	0.42	0	0	0	0	0	0	0	0
1	7/10	1	1,895	6.000	2.5	0.42	0	0	0	0	0	0	0	0
1	7/10	1	1,896	6.000	2.5	0.42	0	0	0	0	0	0	0	0
1	7/10	2	1,903	6.000	2.5	0.42	0	0	0	0	0	0	0	0
1	7/10	2	1,904	6.000	2.5	0.42	0	0	0	0	0	0	0	0
1	7/10	2	1,911	5.125	2.5	0.42	5	0	5	0	0	0	0	0
1	7/10	2	1,912	5.125	2.5	0.42	0	0	0	0	0	0	0	0
1	7/10	2	1,919	8.125	2.5	0.42	0	0	0	0	0	0	0	0
1	7/10	2	1,920	8.125	2.5	0.42	0	0	0	0	0	0	0	0
1	7/10	3	1,927	8.125	2.5	0.42	0	0	0	0	0	0	0	0
1	7/10	3	1,928	8.125	2.5	0.42	0	0	0	0	0	0	0	0
1	7/10	3	1,935	5.125	2.5	0.42	0	0	0	0	0	0	0	0
1	7/10	3	1,936	5.125	2.5	0.42	0	0	0	0	0	0	0	0
1	7/10	3	1,943	6.000	2.5	0.42	0	0	0	0	0	0	0	0
1	7/10	3	1,944	6.000	2.5	0.42	0	0	0	0	0	0	0	0
1	7/11	1	1,951	5.125	2.5	0.42	0	0	0	0	0	0	0	0
1	7/11	1	1,952	5.125	2.5	0.42	0	0	0	0	0	0	0	0
1	7/11	1	1,959	6.000	2.5	0.42	0	0	0	0	0	0	0	0
1	7/11	1	1,960	6.000	2.5	0.42	0	0	0	0	0	0	0	0
1	7/11	1	1,967	8.125	2.5	0.42	0	0	0	0	0	0	0	0
1	7/11	1	1,968	8.125	2.5	0.42	0	0	0	0	0	0	0	0
1	7/11	2	1,975	8.125	2.5	0.42	0	0	0	0	0	0	0	0
1	7/11	2	1,976	8.125	2.5	0.42	0	0	0	0	0	0	0	0
1	7/11	2	1,983	5.125	2.5	0.42	1	0	1	0	0	0	0	0
1	7/11	2	1,984	5.125	2.5	0.42	0	0	0	0	0	0	0	0
1	7/11	2	1,991	6.000	2.5	0.42	0	0	0	0	0	0	0	0
1	7/11	2	1,992	6.000	2.5	0.42	0	0	0	0	0	0	0	0
1	7/12	1	2,023	8.125	2.5	0.42	0	0	0	0	0	0	0	0
1	7/12	1	2,024	8.125	2.5	0.42	0	0	0	0	0	0	0	0
1	7/12	1	2,031	5.125	2.5	0.42	0	0	0	0	0	0	0	0
1	7/12	1	2,032	5.125	2.5	0.42	0	0	0	0	0	0	0	0
1	7/12	1	2,039	6.000	2.5	0.42	0	0	0	0	0	0	0	0
1	7/12	1	2,040	6.000	2.5	0.42	0	0	0	0	0	0	0	0
1	7/12	2	2,047	6.000	2.5	0.42	0	0	0	0	0	0	0	0
1	7/12	2	2,048	6.000	2.5	0.42	0	0	0	0	0	0	0	0
1	7/12	2	2,055	5.125	2.5	0.42	3	0	2	1	0	0	0	0
1	7/12	2	2,056	5.125	2.5	0.42	0	0	0	0	0	0	0	0
1	7/12	2	2,063	8.125	2.5	0.42	0	0	0	0	0	0	0	0
1	7/12	2	2,064	8.125	2.5	0.42	1	0	1	0	0	0	0	0
1	7/12	3	2,071	8.125	2.5	0.42	0	0	0	0	0	0	0	0
1	7/12	3	2,072	8.125	2.5	0.42	0	0	0	0	0	0	0	0
1	7/12	3	2,079	5.125	2.5	0.42	2	0	2	0	0	0	0	0

Appendix D.1. Drift gillnet catch by range, date, session, drift number, mesh, and species, Nushgak River sonar project, 2000.

							Catch							
Range[a]	Date	Session[b]	Drift Number	Mesh (in)	Fishing Time (min)	Fathom Hours	Total	Chinook	Sockeye	Chum	Pink	Coho	White	Other[c]
1	7/12	3	2,080	5.125	2.5	0.42	0	0	0	0	0	0	0	0
1	7/12	3	2,087	6.000	2.5	0.42	1	0	1	0	0	0	0	0
1	7/12	3	2,088	6.000	2.5	0.42	0	0	0	0	0	0	0	0
1	7/13	1	2,095	5.125	2.5	0.42	0	0	0	0	0	0	0	0
1	7/13	1	2,096	5.125	2.5	0.42	0	0	0	0	0	0	0	0
1	7/13	1	2,103	6.000	2.5	0.42	0	0	0	0	0	0	0	0
1	7/13	1	2,104	6.000	2.0	0.33	2	1	1	0	0	0	0	0
1	7/13	1	2,111	8.125	2.5	0.42	0	0	0	0	0	0	0	0
1	7/13	1	2,112	8.125	2.5	0.42	0	0	0	0	0	0	0	0
1	7/13	2	2,119	8.125	2.5	0.42	1	0	1	0	0	0	0	0
1	7/13	2	2,120	8.125	2.5	0.42	0	0	0	0	0	0	0	0
1	7/13	2	2,127	5.125	2.0	0.33	8	0	8	0	0	0	0	0
1	7/13	2	2,128	5.125	2.5	0.42	0	0	0	0	0	0	0	0
1	7/13	2	2,135	6.000	2.0	0.33	12	0	12	0	0	0	0	0
1	7/13	2	2,136	6.000	2.2	0.36	11	0	11	0	0	0	0	0
1	7/13	3	2,141	6.000	2.5	0.42	5	0	4	1	0	0	0	0
1	7/13	3	2,142	6.000	2.5	0.42	0	0	0	0	0	0	0	0
1	7/13	3	2,147	5.125	2.5	0.42	12	0	12	0	0	0	0	0
1	7/13	3	2,148	5.125	2.5	0.42	1	0	1	0	0	0	0	0
1	7/13	3	2,153	8.125	2.5	0.42	2	0	2	0	0	0	0	0
1	7/13	3	2,154	8.125	2.5	0.42	0	0	0	0	0	0	0	0
1	7/14	1	2,159	8.125	2.0	0.33	1	0	1	0	0	0	0	0
1	7/14	1	2,160	8.125	2.5	0.42	0	0	0	0	0	0	0	0
1	7/14	1	2,167	5.125	2.5	0.41	2	0	2	0	0	0	0	0
1	7/14	1	2,168	5.125	2.5	0.42	1	0	1	0	0	0	0	0
1	7/14	1	2,175	6.000	2.5	0.42	2	0	1	1	0	0	0	0
1	7/14	1	2,176	6.000	2.5	0.42	1	0	1	0	0	0	0	0
1	7/14	2	2,183	6.000	2.5	0.42	0	0	0	0	0	0	0	0
1	7/14	2	2,184	6.000	2.5	0.42	1	0	1	0	0	0	0	0
1	7/14	2	2,191	5.125	2.5	0.42	4	0	2	2	0	0	0	0
1	7/14	2	2,192	5.125	2.5	0.42	0	0	0	0	0	0	0	0
1	7/14	2	2,199	8.125	2.5	0.42	1	0	1	0	0	0	0	0
1	7/14	2	2,200	8.125	2.5	0.42	0	0	0	0	0	0	0	0
1	7/14	3	2,207	8.125	2.5	0.42	0	0	0	0	0	0	0	0
1	7/14	3	2,208	8.125	2.5	0.42	0	0	0	0	0	0	0	0
1	7/14	3	2,215	5.125	2.5	0.42	2	0	2	0	0	0	0	0
1	7/14	3	2,216	5.125	2.5	0.42	0	0	0	0	0	0	0	0
1	7/14	3	2,223	6.000	2.0	0.33	3	0	3	0	0	0	0	0
1	7/14	3	2,224	6.000	2.5	0.42	1	0	1	0	0	0	0	0
1	7/15	1	2,231	5.125	2.5	0.42	0	0	0	0	0	0	0	0
1	7/15	1	2,232	5.125	2.5	0.42	0	0	0	0	0	0	0	0
1	7/15	1	2,239	6.000	2.5	0.42	0	0	0	0	0	0	0	0
1	7/15	1	2,240	6.000	2.5	0.42	0	0	0	0	0	0	0	0
1	7/15	1	2,247	8.125	2.5	0.42	0	0	0	0	0	0	0	0
1	7/15	1	2,248	8.125	2.5	0.42	0	0	0	0	0	0	0	0
1	7/15	3	2,255	8.125	2.5	0.42	0	0	0	0	0	0	0	0
1	7/15	3	2,256	8.125	2.5	0.42	0	0	0	0	0	0	0	0
1	7/15	3	2,263	6.000	2.5	0.42	1	1	0	0	0	0	0	0
1	7/15	3	2,264	6.000	2.5	0.42	0	0	0	0	0	0	0	0
1	7/15	3	2,271	5.125	2.5	0.42	0	0	0	0	0	0	0	0
1	7/15	3	2,272	5.125	2.5	0.42	0	0	0	0	0	0	0	0
1	7/16	1	2,279	5.125	2.5	0.42	1	0	1	0	0	0	0	0
1	7/16	1	2,280	5.125	2.5	0.42	0	0	0	0	0	0	0	0
1	7/16	1	2,287	6.000	2.5	0.42	0	0	0	0	0	0	0	0
1	7/16	1	2,288	6.000	2.5	0.42	0	0	0	0	0	0	0	0

Appendix D.1. Drift gillnet catch by range, date, session, drift number, mesh, and species, Nushgak River sonar project, 2000.

Range[a]	Date	Session[b]	Drift Number	Mesh (in)	Fishing Time (min)	Fathom Hours	Catch							
							Total	Chinook	Sockeye	Chum	Pink	Coho	White	Other[c]
1	7/16	1	2,295	8.125	2.5	0.42	0	0	0	0	0	0	0	0
1	7/16	1	2,296	8.125	2.5	0.42	0	0	0	0	0	0	0	0
1	7/16	3	2,303	8.125	2.5	0.42	0	0	0	0	0	0	0	0
1	7/16	3	2,304	8.125	2.5	0.42	0	0	0	0	0	0	0	0
1	7/16	3	2,311	5.125	2.5	0.42	3	1	2	0	0	0	0	0
1	7/16	3	2,312	5.125	3.0	0.50	0	0	0	0	0	0	0	0
1	7/16	3	2,319	6.000	2.5	0.42	3	0	2	0	0	1	0	0
1	7/16	3	2,320	6.000	2.5	0.42	0	0	0	0	0	0	0	0
1	7/17	1	2,327	6.000	2.5	0.42	0	0	0	0	0	0	0	0
1	7/17	1	2,328	6.000	2.5	0.42	0	0	0	0	0	0	0	0
1	7/17	1	2,335	5.125	2.5	0.42	1	1	0	0	0	0	0	0
1	7/17	1	2,336	5.125	2.5	0.42	0	0	0	0	0	0	0	0
1	7/17	1	2,343	8.125	2.5	0.42	0	0	0	0	0	0	0	0
1	7/17	1	2,344	8.125	2.5	0.42	0	0	0	0	0	0	0	0
1	7/17	3	2,351	8.125	2.5	0.42	0	0	0	0	0	0	0	0
1	7/17	3	2,352	8.125	2.5	0.42	0	0	0	0	0	0	0	0
1	7/17	3	2,359	5.125	2.5	0.42	0	0	0	0	0	0	0	0
1	7/17	3	2,360	5.125	2.5	0.42	2	0	0	0	1	1	0	0
1	7/17	3	2,367	6.000	2.5	0.42	0	0	0	0	0	0	0	0
1	7/17	3	2,368	6.000	2.5	0.42	0	0	0	0	0	0	0	0
1	7/18	1	2,375	6.000	2.5	0.42	0	0	0	0	0	0	0	0
1	7/18	1	2,376	6.000	2.5	0.42	0	0	0	0	0	0	0	0
1	7/18	1	2,383	5.125	2.5	0.42	5	0	2	0	0	3	0	0
1	7/18	1	2,384	5.125	2.5	0.42	0	0	0	0	0	0	0	0
1	7/18	1	2,391	8.125	2.5	0.42	0	0	0	0	0	0	0	0
1	7/18	1	2,392	8.125	2.5	0.42	0	0	0	0	0	0	0	0
1	7/18	3	2,399	8.125	2.5	0.42	0	0	0	0	0	0	0	0
1	7/18	3	2,400	8.125	2.5	0.42	0	0	0	0	0	0	0	0
1	7/18	3	2,407	6.000	2.5	0.42	0	0	0	0	0	0	0	0
1	7/18	3	2,408	6.000	2.5	0.42	0	0	0	0	0	0	0	0
1	7/18	3	2,415	5.125	2.5	0.42	0	0	0	0	0	0	0	0
1	7/18	3	2,416	5.125	2.5	0.42	0	0	0	0	0	0	0	0
1	7/19	1	2,423	5.125	2.5	0.42	0	0	0	0	0	0	0	0
1	7/19	1	2,424	5.125	2.5	0.42	0	0	0	0	0	0	0	0
1	7/19	1	2,431	6.000	3.3	0.55	1	0	0	0	0	1	0	0
1	7/19	1	2,432	6.000	2.5	0.42	0	0	0	0	0	0	0	0
1	7/19	1	2,439	8.125	2.5	0.42	0	0	0	0	0	0	0	0
1	7/19	1	2,440	8.125	2.5	0.42	0	0	0	0	0	0	0	0
1	7/19	3	2,447	8.125	2.5	0.42	0	0	0	0	0	0	0	0
1	7/19	3	2,448	8.125	2.5	0.42	0	0	0	0	0	0	0	0
1	7/19	3	2,455	5.125	2.5	0.42	0	0	0	0	0	0	0	0
1	7/19	3	2,456	5.125	2.5	0.42	0	0	0	0	0	0	0	0
1	7/19	3	2,463	6.000	2.5	0.42	0	0	0	0	0	0	0	0
1	7/19	3	2,464	6.000	2.5	0.42	2	1	1	0	0	0	0	0
1	7/20	1	2,471	6.000	2.5	0.42	0	0	0	0	0	0	0	0
1	7/20	1	2,472	6.000	2.5	0.42	0	0	0	0	0	0	0	0
1	7/20	1	2,479	5.125	2.5	0.42	0	0	0	0	0	0	0	0
1	7/20	1	2,480	5.125	2.5	0.42	0	0	0	0	0	0	0	0
1	7/20	3	2,487	5.125	2.5	0.42	0	0	0	0	0	0	0	0
1	7/20	3	2,488	5.125	2.5	0.42	0	0	0	0	0	0	0	0
1	7/20	3	2,495	6.000	2.5	0.42	0	0	0	0	0	0	0	0
1	7/20	3	2,496	6.000	2.5	0.42	0	0	0	0	0	0	0	0
1	7/20	3	2,503	8.125	2.5	0.42	0	0	0	0	0	0	0	0
1	7/20	3	2,504	8.125	2.5	0.42	0	0	0	0	0	0	0	0
1	7/21	1	2,511	8.125	2.5	0.42	0	0	0	0	0	0	0	0

Appendix D.1. Drift gillnet catch by range, date, session, drift number, mesh, and species, Nushgak River sonar project, 2000.

							Catch							
Range[a]	Date	Session[b]	Drift Number	Mesh (in)	Fishing Time (min)	Fathom Hours	Total	Chinook	Sockeye	Chum	Pink	Coho	White	Other[c]
1	7/21	1	2,512	8.125	2.5	0.42	0	0	0	0	0	0	0	0
1	7/21	1	2,519	5.125	2.5	0.42	0	0	0	0	0	0	0	0
1	7/21	1	2,520	5.125	2.5	0.42	0	0	0	0	0	0	0	0
1	7/21	1	2,527	6.000	2.5	0.42	1	0	0	0	0	1	0	0
1	7/21	1	2,528	6.000	2.5	0.42	0	0	0	0	0	0	0	0
1	7/21	3	2,535	6.000	2.5	0.42	0	0	0	0	0	0	0	0
1	7/21	3	2,536	6.000	2.5	0.42	0	0	0	0	0	0	0	0
1	7/21	3	2,543	5.125	2.5	0.42	1	0	1	0	0	0	0	0
1	7/21	3	2,544	5.125	2.5	0.42	0	0	0	0	0	0	0	0
1	7/21	3	2,551	8.125	2.5	0.42	0	0	0	0	0	0	0	0
1	7/21	3	2,552	8.125	2.5	0.42	0	0	0	0	0	0	0	0
1	7/22	1	2,559	8.125	2.5	0.42	0	0	0	0	0	0	0	0
1	7/22	1	2,560	8.125	2.5	0.42	0	0	0	0	0	0	0	0
1	7/22	1	2,567	5.125	2.5	0.42	3	0	0	0	0	3	0	0
1	7/22	1	2,568	5.125	2.5	0.42	0	0	0	0	0	0	0	0
1	7/22	1	2,575	6.000	2.5	0.42	0	0	0	0	0	0	0	0
1	7/22	1	2,576	6.000	2.5	0.42	0	0	0	0	0	0	0	0
1	7/23	1	2,607	8.125	2.5	0.42	0	0	0	0	0	0	0	0
1	7/23	1	2,608	8.125	2.5	0.42	0	0	0	0	0	0	0	0
1	7/23	1	2,615	5.125	2.5	0.42	0	0	0	0	0	0	0	0
1	7/23	1	2,616	5.125	2.5	0.42	1	0	1	0	0	0	0	0
1	7/23	1	2,623	6.000	2.5	0.42	0	0	0	0	0	0	0	0
1	7/23	1	2,624	6.000	2.5	0.42	0	0	0	0	0	0	0	0
1	7/23	3	2,631	6.000	2.5	0.42	0	0	0	0	0	0	0	0
1	7/23	3	2,632	6.000	2.5	0.42	0	0	0	0	0	0	0	0
1	7/23	3	2,639	6.000	2.5	0.42	0	0	0	0	0	0	0	0
1	7/23	3	2,640	5.125	2.5	0.42	0	0	0	0	0	0	0	0
1	7/23	3	2,647	8.125	2.5	0.42	0	0	0	0	0	0	0	0
1	7/23	3	2,648	8.125	2.5	0.42	0	0	0	0	0	0	0	0
1	7/24	1	2,655	8.125	2.5	0.42	0	0	0	0	0	0	0	0
1	7/24	1	2,656	8.125	2.5	0.42	0	0	0	0	0	0	0	0
1	7/24	1	2,663	5.125	2.5	0.42	0	0	0	0	0	0	0	0
1	7/24	1	2,664	5.125	2.5	0.42	0	0	0	0	0	0	0	0
1	7/24	1	2,671	6.000	2.5	0.42	0	0	0	0	0	0	0	0
1	7/24	1	2,672	6.000	2.5	0.42	0	0	0	0	0	0	0	0
1	7/24	3	2,679	6.000	2.5	0.42	0	0	0	0	0	0	0	0
1	7/24	3	2,680	6.000	2.5	0.42	0	0	0	0	0	0	0	0
1	7/24	3	2,687	5.125	2.5	0.42	0	0	0	0	0	0	0	0
1	7/24	3	2,688	5.125	2.5	0.42	0	0	0	0	0	0	0	0
1	7/24	3	2,695	8.125	2.5	0.42	0	0	0	0	0	0	0	0
1	7/24	3	2,696	8.125	2.5	0.42	0	0	0	0	0	0	0	0
1	7/25	1	2,703	4.500	2.5	0.42	1	0	1	0	0	0	0	0
1	7/25	1	2,704	4.500	2.5	0.42	0	0	0	0	0	0	0	0
1	7/25	1	2,711	5.125	2.5	0.42	0	0	0	0	0	0	0	0
1	7/25	1	2,712	5.125	2.5	0.42	0	0	0	0	0	0	0	0
1	7/25	1	2,719	6.000	2.5	0.42	0	0	0	0	0	0	0	0
1	7/25	1	2,720	6.000	2.5	0.42	1	0	0	0	1	0	0	0
1	7/25	3	2,727	6.000	2.5	0.42	0	0	0	0	0	0	0	0
1	7/25	3	2,728	6.000	2.5	0.42	0	0	0	0	0	0	0	0
1	7/25	3	2,735	5.125	2.5	0.42	0	0	0	0	0	0	0	0
1	7/25	3	2,736	5.125	2.5	0.42	0	0	0	0	0	0	0	0
1	7/25	3	2,743	4.500	2.5	0.42	0	0	0	0	0	0	0	0
1	7/25	3	2,744	4.500	2.5	0.42	0	0	0	0	0	0	0	0
1	7/26	1	2,751	4.500	2.5	0.42	0	0	0	0	0	0	0	0
1	7/26	1	2,752	4.500	2.5	0.42	0	0	0	0	0	0	0	0

Appendix D.1. Drift gillnet catch by range, date, session, drift number, mesh, and species, Nushgak River sonar project, 2000.

Range[a]	Date	Session[b]	Drift Number	Mesh (in)	Fishing Time (min)	Fathom Hours	Catch							
							Total	Chinook	Sockeye	Chum	Pink	Coho	White	Other[c]
1	7/26	1	2,759	5.125	2.5	0.42	0	0	0	0	0	0	0	0
1	7/26	1	2,760	5.125	2.5	0.42	0	0	0	0	0	0	0	0
1	7/26	1	2,767	6.000	2.5	0.42	0	0	0	0	0	0	0	0
1	7/26	1	2,768	6.000	2.5	0.42	0	0	0	0	0	0	0	0
1	7/26	3	2,775	6.000	2.5	0.42	0	0	0	0	0	0	0	0
1	7/26	3	2,776	6.000	2.5	0.42	0	0	0	0	0	0	0	0
1	7/26	3	2,783	5.125	2.5	0.42	0	0	0	0	0	0	0	0
1	7/26	3	2,784	5.125	2.5	0.42	0	0	0	0	0	0	0	0
1	7/26	3	2,791	4.500	2.5	0.42	0	0	0	0	0	0	0	0
1	7/26	3	2,792	4.500	2.5	0.42	0	0	0	0	0	0	0	0
1	7/27	1	2,799	4.500	2.5	0.42	0	0	0	0	0	0	0	0
1	7/27	1	2,800	4.500	2.5	0.42	0	0	0	0	0	0	0	0
1	7/27	1	2,807	5.125	2.5	0.42	1	0	0	0	1	0	0	0
1	7/27	1	2,808	5.125	2.5	0.42	1	0	0	0	1	0	0	0
1	7/27	1	2,815	6.000	2.5	0.42	0	0	0	0	0	0	0	0
1	7/27	1	2,816	6.000	2.5	0.42	0	0	0	0	0	0	0	0
1	7/27	3	2,823	6.000	2.5	0.42	0	0	0	0	0	0	0	0
1	7/27	3	2,824	6.000	2.5	0.42	0	0	0	0	0	0	0	0
1	7/27	3	2,831	5.125	2.5	0.42	0	0	0	0	0	0	0	0
1	7/27	3	2,832	5.125	2.5	0.42	2	0	0	0	2	0	0	0
1	7/27	3	2,839	4.500	2.5	0.42	0	0	0	0	0	0	0	0
1	7/27	3	2,840	4.500	2.5	0.42	0	0	0	0	0	0	0	0
1	7/28	1	2,847	4.500	2.8	0.47	4	0	0	0	4	0	0	0
1	7/28	1	2,848	4.500	2.5	0.42	0	0	0	0	0	0	0	0
1	7/28	1	2,855	5.125	2.5	0.42	3	0	0	0	3	0	0	0
1	7/28	1	2,856	5.125	2.5	0.42	1	0	0	1	0	0	0	0
1	7/28	1	2,863	6.000	2.5	0.42	2	0	0	0	1	1	0	0
1	7/28	1	2,864	6.000	2.5	0.42	0	0	0	0	0	0	0	0
1	7/28	3	2,871	6.000	2.5	0.42	0	0	0	0	0	0	0	0
1	7/28	3	2,872	6.000	2.5	0.42	1	0	0	0	1	0	0	0
1	7/28	3	2,879	5.125	2.5	0.42	5	0	0	1	3	1	0	0
1	7/28	3	2,880	5.125	2.5	0.42	0	0	0	0	0	0	0	0
1	7/28	3	2,887	4.500	2.5	0.42	6	0	0	0	6	0	0	0
1	7/28	3	2,888	4.500	2.5	0.42	0	0	0	0	0	0	0	0
1	7/29	1	2,895	4.500	2.5	0.42	1	0	0	0	1	0	0	0
1	7/29	1	2,896	4.500	2.5	0.42	0	0	0	0	0	0	0	0
1	7/29	1	2,903	5.125	2.5	0.42	3	0	0	0	2	1	0	0
1	7/29	1	2,904	5.125	2.5	0.42	0	0	0	0	0	0	0	0
1	7/29	1	2,911	6.000	2.5	0.42	0	0	0	0	0	0	0	0
1	7/29	1	2,912	6.000	2.5	0.42	1	0	0	0	0	1	0	0
1	7/29	3	2,919	6.000	2.6	0.43	0	0	0	0	0	0	0	0
1	7/29	3	2,920	6.000	2.5	0.42	2	0	0	0	2	0	0	0
1	7/29	3	2,927	5.125	2.5	0.42	2	0	2	0	0	0	0	0
1	7/29	3	2,928	5.125	2.5	0.42	0	0	0	0	0	0	0	0
1	7/29	3	2,935	5.125	2.5	0.42	2	0	1	0	1	0	0	0
1	7/29	3	2,936	4.500	2.5	0.42	0	0	0	0	0	0	0	0
1	7/30	1	2,943	4.500	2.5	0.42	0	0	0	0	0	0	0	0
1	7/30	1	2,944	4.500	2.5	0.42	3	0	0	0	3	0	0	0
1	7/30	1	2,951	5.125	2.5	0.42	0	0	0	0	0	0	0	0
1	7/30	1	2,952	5.125	2.5	0.42	0	0	0	0	0	0	0	0
1	7/30	1	2,959	6.000	2.5	0.42	0	0	0	0	0	0	0	0
1	7/30	1	2,960	6.000	2.5	0.42	0	0	0	0	0	0	0	0
1	7/30	3	2,967	6.000	2.5	0.42	0	0	0	0	0	0	0	0
1	7/30	3	2,968	6.000	2.5	0.42	0	0	0	0	0	0	0	0
1	7/30	3	2,975	5.125	2.5	0.42	2	0	0	0	2	0	0	0

Appendix D.1. Drift gillnet catch by range, date, session, drift number, mesh, and species, Nushgak River sonar project, 2000.

Range[a]	Date	Session[b]	Drift Number	Mesh (in)	Fishing Time (min)	Fathom Hours	Catch							
							Total	Chinook	Sockeye	Chum	Pink	Coho	White	Other[c]
1	7/30	3	2,976	5.125	2.5	0.42	0	0	0	0	0	0	0	0
1	7/30	3	2,983	4.500	2.5	0.42	3	0	0	0	3	0	0	0
1	7/31	1	2,991	4.500	2.5	0.42	1	0	0	0	1	0	0	0
1	7/31	1	2,992	4.500	2.5	0.42	0	0	0	0	0	0	0	0
1	7/31	1	2,999	5.125	2.5	0.42	0	0	0	0	0	0	0	0
1	7/31	1	3,000	5.125	2.5	0.42	0	0	0	0	0	0	0	0
1	7/31	1	3,007	6.000	2.5	0.42	0	0	0	0	0	0	0	0
1	7/31	1	3,008	6.000	2.5	0.42	0	0	0	0	0	0	0	0
1	7/31	3	3,015	6.000	2.5	0.42	0	0	0	0	0	0	0	0
1	7/31	3	3,016	6.000	2.5	0.42	0	0	0	0	0	0	0	0
1	7/31	3	3,023	4.500	2.5	0.42	0	0	0	0	0	0	0	0
1	7/31	3	3,024	4.500	2.5	0.42	0	0	0	0	0	0	0	0
1	7/31	3	3,031	5.125	2.5	0.42	0	0	0	0	0	0	0	0
1	7/31	3	3,032	5.125	2.5	0.42	0	0	0	0	0	0	0	0
1	8/01	1	3,039	5.125	2.0	0.33	6	0	0	0	0	6	0	0
1	8/01	1	3,040	5.125	1.5	0.25	0	0	0	0	0	0	0	0
1	8/01	1	3,045	4.500	1.5	0.25	8	0	0	0	1	7	0	0
1	8/01	1	3,046	4.500	2.5	0.42	0	0	0	0	0	0	0	0
1	8/01	1	3,051	6.000	2.1	0.35	3	0	0	0	0	3	0	0
1	8/01	1	3,052	6.000	2.5	0.42	3	0	0	0	0	3	0	0
1	8/01	3	3,057	6.000	2.0	0.33	10	0	0	0	2	8	0	0
1	8/01	3	3,058	6.000	1.5	0.25	4	0	0	0	2	2	0	0
1	8/01	3	3,063	5.125	1.5	0.25	2	0	0	0	0	2	0	0
1	8/01	3	3,064	5.125	1.5	0.25	5	0	0	0	2	3	0	0
1	8/01	3	3,069	4.500	1.5	0.25	1	0	0	0	0	1	0	0
1	8/01	3	3,070	4.500	1.5	0.25	3	0	0	0	0	3	0	0
1	8/02	1	3,075	4.500	2.6	0.43	3	0	0	0	0	3	0	0
1	8/02	1	3,076	4.500	1.5	0.25	0	0	0	0	0	0	0	0
1	8/02	1	3,083	5.125	2.5	0.42	0	0	0	0	0	0	0	0
1	8/02	1	3,084	5.125	2.5	0.42	0	0	0	0	0	0	0	0
1	8/02	1	3,091	6.000	2.6	0.43	0	0	0	0	0	0	0	0
1	8/02	1	3,092	6.000	2.5	0.42	0	0	0	0	0	0	0	0
1	8/02	3	3,099	6.000	2.5	0.42	0	0	0	0	0	0	0	0
1	8/02	3	3,100	6.000	2.5	0.42	0	0	0	0	0	0	0	0
1	8/02	3	3,107	4.500	2.1	0.35	0	0	0	0	0	0	0	0
1	8/02	3	3,108	4.500	2.5	0.42	2	0	0	0	1	1	0	0
1	8/02	3	3,115	5.125	1.5	0.25	7	0	0	0	1	6	0	0
1	8/02	3	3,116	5.125	1.5	0.25	3	0	0	0	2	1	0	0
1	8/03	1	3,123	5.125	2.5	0.42	0	0	0	0	0	0	0	0
1	8/03	1	3,124	5.125	2.5	0.42	1	0	0	0	0	1	0	0
1	8/03	1	3,131	6.000	2.5	0.42	2	0	0	0	1	1	0	0
1	8/03	1	3,132	6.000	2.5	0.42	1	0	0	0	1	0	0	0
1	8/03	1	3,139	4.500	2.5	0.42	0	0	0	0	0	0	0	0
1	8/03	1	3,140	4.500	2.7	0.45	3	0	0	0	0	3	0	0
1	8/03	3	3,147	4.500	2.5	0.42	2	0	0	0	0	2	0	0
1	8/03	3	3,148	4.500	2.5	0.42	5	0	0	0	2	3	0	0
1	8/03	3	3,155	5.125	2.0	0.33	8	0	0	0	5	3	0	0
1	8/03	3	3,156	5.125	2.5	0.42	1	0	0	0	0	1	0	0
1	8/03	3	3,163	6.000	1.5	0.25	1	0	0	0	1	0	0	0
1	8/03	3	3,164	6.000	2.0	0.33	4	0	0	0	2	2	0	0
1	8/04	1	3,171	6.000	1.5	0.25	3	0	0	0	1	2	0	0
1	8/04	1	3,172	6.000	2.5	0.42	1	0	0	0	0	1	0	0
1	8/04	1	3,179	4.500	1.5	0.25	0	0	0	0	0	0	0	0
1	8/04	1	3,180	4.500	1.8	0.29	2	0	0	0	0	2	0	0
1	8/04	1	3,187	5.125	1.5	0.25	1	0	0	0	0	1	0	0

Appendix D.1. Drift gillnet catch by range, date, session, drift number, mesh, and species, Nushgak River sonar project, 2000.

Range[a]	Date	Session[b]	Drift Number	Mesh (in)	Fishing Time (min)	Fathom Hours	Catch							
							Total	Chinook	Sockeye	Chum	Pink	Coho	White	Other[c]
1	8/04	1	3,188	5.125	1.5	0.25	2	0	0	0	2	0	0	0
1	8/04	3	3,195	5.125	1.5	0.25	5	0	0	0	3	2	0	0
1	8/04	3	3,196	5.125	1.5	0.25	1	0	0	0	0	1	0	0
1	8/04	3	3,203	4.500	1.5	0.25	11	0	0	0	7	4	0	0
1	8/04	3	3,204	4.500	1.5	0.25	1	0	0	0	1	0	0	0
1	8/04	3	3,211	6.000	1.5	0.25	2	0	0	0	0	2	0	0
1	8/04	3	3,212	6.000	1.5	0.25	0	0	0	0	0	0	0	0
1	8/05	1	3,219	6.000	1.5	0.25	1	0	0	0	0	1	0	0
1	8/05	1	3,220	6.000	2.5	0.42	3	0	0	0	0	3	0	0
1	8/05	1	3,227	4.500	2.0	0.33	6	0	0	0	1	5	0	0
1	8/05	1	3,228	4.500	1.5	0.25	3	0	0	0	3	0	0	0
1	8/05	1	3,235	5.125	1.5	0.25	2	0	0	0	1	1	0	0
1	8/05	1	3,236	5.125	1.5	0.25	0	0	0	0	0	0	0	0
1	8/05	3	3,243	5.125	1.5	0.25	3	0	0	0	1	2	0	0
1	8/05	3	3,244	5.125	1.5	0.25	0	0	0	0	0	0	0	0
1	8/05	3	3,251	4.500	1.5	0.25	4	0	0	0	3	1	0	0
1	8/05	3	3,252	4.500	1.5	0.25	0	0	0	0	0	0	0	0
1	8/05	3	3,259	6.000	1.5	0.25	3	0	0	0	0	3	0	0
1	8/05	3	3,260	6.000	1.5	0.25	0	0	0	0	0	0	0	0
1	8/06	1	3,267	6.000	2.5	0.42	1	0	0	0	1	0	0	0
1	8/06	1	3,268	6.000	2.5	0.42	1	0	0	0	0	1	0	0
1	8/06	1	3,275	4.500	2.5	0.42	4	0	0	0	1	3	0	0
1	8/06	1	3,276	4.500	2.5	0.42	0	0	0	0	0	0	0	0
1	8/06	1	3,283	5.125	2.5	0.42	1	0	0	0	0	1	0	0
1	8/06	1	3,284	5.125	2.5	0.42	1	0	0	0	0	1	0	0
1	8/06	3	3,291	5.125	2.2	0.36	0	0	0	0	0	0	0	0
1	8/06	3	3,292	5.125	2.0	0.33	1	0	0	0	1	0	0	0
1	8/06	3	3,299	6.000	2.0	0.33	1	0	0	0	1	0	0	0
1	8/06	3	3,300	6.000	2.1	0.36	0	0	0	0	0	0	0	0
1	8/06	3	3,307	4.500	2.0	0.33	0	0	0	0	0	0	0	0
1	8/06	3	3,308	4.500	2.0	0.33	4	0	0	0	1	3	0	0
1	8/07	3	3,339	6.000	2.5	0.42	0	0	0	0	0	0	0	0
1	8/07	3	3,340	6.000	2.3	0.39	0	0	0	0	0	0	0	0
1	8/07	3	3,347	5.125	2.5	0.42	0	0	0	0	0	0	0	0
1	8/07	3	3,348	5.125	2.5	0.42	3	0	0	0	0	3	0	0
1	8/07	3	3,355	4.500	2.5	0.42	0	0	0	0	0	0	0	0
1	8/07	3	3,356	4.500	2.5	0.42	0	0	0	0	0	0	0	0
1	8/08	1	3,363	4.500	2.5	0.42	0	0	0	0	0	0	0	0
1	8/08	1	3,364	4.500	2.5	0.42	0	0	0	0	0	0	0	0
1	8/08	1	3,371	5.125	2.5	0.42	1	0	0	0	0	1	0	0
1	8/08	1	3,372	5.125	2.6	0.43	1	0	0	0	0	1	0	0
1	8/08	1	3,379	6.000	2.5	0.42	0	0	0	0	0	0	0	0
1	8/08	1	3,380	6.000	2.5	0.42	1	0	0	0	1	0	0	0
1	8/08	3	3,387	6.000	2.5	0.42	1	0	0	0	1	0	0	0
1	8/08	3	3,388	6.000	2.5	0.42	0	0	0	0	0	0	0	0
1	8/08	3	3,395	4.500	2.5	0.42	3	0	0	0	3	0	0	0
1	8/08	3	3,396	4.500	2.5	0.42	0	0	0	0	0	0	0	0
1	8/08	3	3,403	5.125	2.5	0.42	1	0	0	0	1	0	0	0
1	8/08	3	3,404	5.125	2.5	0.42	0	0	0	0	0	0	0	0
1	8/09	3	3,435	5.125	2.5	0.42	0	0	0	0	0	0	0	0
1	8/09	3	3,436	5.125	2.5	0.42	0	0	0	0	0	0	0	0
1	8/09	3	3,443	4.500	2.5	0.42	0	0	0	0	0	0	0	0
1	8/09	3	3,444	4.500	2.5	0.42	3	0	0	0	1	2	0	0
1	8/09	3	3,451	6.000	2.5	0.42	0	0	0	0	0	0	0	0
1	8/09	3	3,452	6.000	2.5	0.42	0	0	0	0	0	0	0	0

Appendix D.1. Drift gillnet catch by range, date, session, drift number, mesh, and species, Nushgak River sonar project, 2000.

Range[a]	Date	Session[b]	Drift Number	Mesh (in)	Fishing Time (min)	Fathom Hours	Catch							
							Total	Chinook	Sockeye	Chum	Pink	Coho	White	Other[c]
1	8/10	1	3,459	6.000	2.5	0.42	0	0	0	0	0	0	0	0
1	8/10	1	3,460	6.000	2.5	0.42	0	0	0	0	0	0	0	0
1	8/10	1	3,467	5.125	2.5	0.42	0	0	0	0	0	0	0	0
1	8/10	1	3,468	5.125	2.5	0.42	0	0	0	0	0	0	0	0
1	8/10	1	3,475	4.500	2.5	0.42	3	0	0	0	3	0	0	0
1	8/10	1	3,476	4.500	2.5	0.42	2	0	0	0	1	1	0	0
1	8/10	3	3,483	4.500	2.5	0.42	0	0	0	0	0	0	0	0
1	8/10	3	3,484	4.500	2.5	0.42	0	0	0	0	0	0	0	0
1	8/10	3	3,491	5.125	2.5	0.42	0	0	0	0	0	0	0	0
1	8/10	3	3,492	5.125	2.5	0.42	2	0	0	0	2	0	0	0
1	8/10	3	3,499	6.000	2.5	0.42	0	0	0	0	0	0	0	0
1	8/10	3	3,500	6.000	2.5	0.42	1	0	0	0	1	0	0	0
1	8/11	1	3,507	6.000	2.5	0.42	0	0	0	0	0	0	0	0
1	8/11	1	3,508	6.000	2.5	0.42	0	0	0	0	0	0	0	0
1	8/11	1	3,515	4.500	2.5	0.42	0	0	0	0	0	0	0	0
1	8/11	1	3,516	4.500	2.5	0.42	0	0	0	0	0	0	0	0
1	8/11	1	3,523	5.125	2.5	0.42	0	0	0	0	0	0	0	0
1	8/11	1	3,524	5.125	2.5	0.42	0	0	0	0	0	0	0	0
1	8/11	3	3,531	5.125	2.5	0.42	1	0	0	0	1	0	0	0
1	8/11	3	3,532	5.125	2.5	0.42	0	0	0	0	0	0	0	0
1	8/11	3	3,539	6.000	2.5	0.42	0	0	0	0	0	0	0	0
1	8/11	3	3,540	6.000	2.5	0.42	0	0	0	0	0	0	0	0
1	8/11	3	3,547	4.500	2.5	0.42	4	0	0	0	1	3	0	0
1	8/11	3	3,548	4.500	2.5	0.42	0	0	0	0	0	0	0	0
1	8/12	1	3,555	4.500	2.5	0.42	0	0	0	0	0	0	0	0
1	8/12	1	3,556	4.500	2.5	0.42	0	0	0	0	0	0	0	0
1	8/12	1	3,563	5.125	2.5	0.42	1	0	0	0	0	1	0	0
1	8/12	1	3,564	5.125	2.5	0.42	0	0	0	0	0	0	0	0
1	8/12	1	3,571	6.000	2.5	0.42	0	0	0	0	0	0	0	0
1	8/12	1	3,572	6.000	2.5	0.42	0	0	0	0	0	0	0	0
1	8/12	3	3,579	6.000	2.5	0.42	0	0	0	0	0	0	0	0
1	8/12	3	3,580	6.000	2.5	0.42	0	0	0	0	0	0	0	0
1	8/12	3	3,587	5.125	2.5	0.42	0	0	0	0	0	0	0	0
1	8/12	3	3,588	5.125	2.5	0.42	0	0	0	0	0	0	0	0
1	8/12	3	3,595	4.500	2.5	0.42	0	0	0	0	0	0	0	0
1	8/12	3	3,596	4.500	2.5	0.42	0	0	0	0	0	0	0	0
1	8/13	1	3,603	4.500	2.5	0.42	0	0	0	0	0	0	0	0
1	8/13	1	3,604	4.500	2.5	0.42	0	0	0	0	0	0	0	0
1	8/13	1	3,611	5.125	2.5	0.42	0	0	0	0	0	0	0	0
1	8/13	1	3,612	5.125	2.5	0.42	0	0	0	0	0	0	0	0
1	8/13	1	3,619	6.000	2.5	0.42	0	0	0	0	0	0	0	0
1	8/13	1	3,620	6.000	2.5	0.42	0	0	0	0	0	0	0	0
1	8/13	3	3,627	6.000	2.5	0.42	0	0	0	0	0	0	0	0
1	8/13	3	3,628	6.000	2.5	0.42	0	0	0	0	0	0	0	0
1	8/13	3	3,635	4.500	2.5	0.42	1	0	0	0	0	1	0	0
1	8/13	3	3,636	4.500	2.5	0.42	1	0	0	0	1	0	0	0
1	8/13	3	3,643	5.125	2.5	0.42	0	0	0	0	0	0	0	0
1	8/13	3	3,644	5.125	2.5	0.42	0	0	0	0	0	0	0	0
1	8/14	1	3,651	5.125	2.5	0.42	0	0	0	0	0	0	0	0
1	8/14	1	3,652	5.125	2.5	0.42	0	0	0	0	0	0	0	0
1	8/14	1	3,659	4.500	2.5	0.42	0	0	0	0	0	0	0	0
1	8/14	1	3,660	4.500	2.5	0.42	0	0	0	0	0	0	0	0
1	8/14	1	3,667	6.000	2.5	0.42	0	0	0	0	0	0	0	0
1	8/14	1	3,668	6.000	2.8	0.46	1	0	0	0	0	1	0	0
1	8/14	3	3,675	6.000	2.5	0.42	0	0	0	0	0	0	0	0

Appendix D.1. Drift gillnet catch by range, date, session, drift number, mesh, and species, Nushgak River sonar project, 2000.

Range[a]	Date	Session[b]	Drift Number	Mesh (in)	Fishing Time (min)	Fathom Hours	Catch							
							Total	Chinook	Sockeye	Chum	Pink	Coho	White	Other[c]
1	8/14	3	3,676	6.000	2.5	0.42	0	0	0	0	0	0	0	0
1	8/14	3	3,683	4.500	2.5	0.42	0	0	0	0	0	0	0	0
1	8/14	3	3,684	4.500	2.5	0.42	0	0	0	0	0	0	0	0
1	8/14	3	3,691	5.125	2.5	0.42	0	0	0	0	0	0	0	0
1	8/14	3	3,692	5.125	2.5	0.42	0	0	0	0	0	0	0	0
1	8/15	1	3,699	5.125	2.5	0.42	0	0	0	0	0	0	0	0
1	8/15	1	3,700	5.125	3.2	0.53	1	0	0	0	0	1	0	0
1	8/15	1	3,707	4.500	2.5	0.42	0	0	0	0	0	0	0	0
1	8/15	1	3,708	4.500	2.5	0.42	0	0	0	0	0	0	0	0
1	8/15	1	3,715	6.000	2.5	0.42	0	0	0	0	0	0	0	0
1	8/15	1	3,716	6.000	2.5	0.42	0	0	0	0	0	0	0	0
1	8/15	3	3,723	6.000	2.5	0.42	0	0	0	0	0	0	0	0
1	8/15	3	3,724	6.000	2.5	0.42	0	0	0	0	0	0	0	0
1	8/15	3	3,731	4.500	2.5	0.42	1	0	0	0	0	1	0	0
1	8/15	3	3,732	4.500	2.5	0.42	0	0	0	0	0	0	0	0
1	8/15	3	3,739	5.125	2.5	0.42	0	0	0	0	0	0	0	0
1	8/15	3	3,740	5.125	2.5	0.42	1	0	0	0	0	1	0	0
1	8/16	1	3,747	5.125	2.5	0.42	2	0	0	0	0	2	0	0
1	8/16	1	3,748	5.125	2.5	0.42	0	0	0	0	0	0	0	0
1	8/16	1	3,755	6.000	2.5	0.42	0	0	0	0	0	0	0	0
1	8/16	1	3,756	6.000	2.5	0.42	0	0	0	0	0	0	0	0
1	8/16	1	3,763	6.000	2.6	0.43	0	0	0	0	0	0	0	0
1	8/16	1	3,764	4.500	2.5	0.42	0	0	0	0	0	0	0	0
1	8/16	3	3,771	4.500	2.5	0.42	0	0	0	0	0	0	0	0
1	8/16	3	3,772	4.500	2.5	0.42	0	0	0	0	0	0	0	0
1	8/16	3	3,779	5.125	2.5	0.42	1	0	0	0	0	1	0	0
1	8/16	3	3,780	5.125	2.5	0.42	0	0	0	0	0	0	0	0
1	8/16	3	3,787	6.000	2.5	0.42	0	0	0	0	0	0	0	0
1	8/16	3	3,788	6.000	2.5	0.42	2	0	0	0	0	2	0	0
1	8/17	1	3,795	6.000	2.5	0.42	0	0	0	0	0	0	0	0
1	8/17	1	3,796	6.000	2.5	0.42	0	0	0	0	0	0	0	0
1	8/17	1	3,803	4.500	2.5	0.42	0	0	0	0	0	0	0	0
1	8/17	1	3,804	4.500	2.5	0.42	0	0	0	0	0	0	0	0
1	8/17	1	3,811	5.125	3.0	0.50	0	0	0	0	0	0	0	0
1	8/17	1	3,812	5.125	2.5	0.42	0	0	0	0	0	0	0	0
1	8/17	3	3,819	5.125	2.5	0.42	0	0	0	0	0	0	0	0
1	8/17	3	3,820	5.125	2.5	0.42	0	0	0	0	0	0	0	0
1	8/17	3	3,827	4.500	2.5	0.42	0	0	0	0	0	0	0	0
1	8/17	3	3,828	4.500	2.5	0.42	0	0	0	0	0	0	0	0
1	8/17	3	3,835	6.000	2.5	0.42	0	0	0	0	0	0	0	0
1	8/17	3	3,836	6.000	2.5	0.42	0	0	0	0	0	0	0	0
Range 1 Total -					2258.4	378.92	924	112	406	157	107	141	1	0
2	6/10	3	3	5.125	2.5	0.42	0	0	0	0	0	0	0	0
2	6/10	3	4	5.125	2.5	0.42	0	0	0	0	0	0	0	0
2	6/10	3	11	6.000	2.5	0.42	0	0	0	0	0	0	0	0
2	6/10	3	12	6.000	2.5	0.41	0	0	0	0	0	0	0	0
2	6/10	3	19	8.125	2.5	0.42	0	0	0	0	0	0	0	0
2	6/10	3	20	8.125	2.5	0.42	0	0	0	0	0	0	0	0
2	6/11	1	27	8.125	2.5	0.42	0	0	0	0	0	0	0	0
2	6/11	1	28	8.125	2.5	0.42	0	0	0	0	0	0	0	0
2	6/11	1	35	5.125	2.5	0.42	0	0	0	0	0	0	0	0
2	6/11	1	36	5.125	2.5	0.42	0	0	0	0	0	0	0	0
2	6/11	1	43	6.000	2.5	0.42	0	0	0	0	0	0	0	0

Appendix D.1. Drift gillnet catch by range, date, session, drift number, mesh, and species, Nushgak River sonar project, 2000.

Range[a]	Date	Session[b]	Drift Number	Mesh (in)	Fishing Time (min)	Fathom Hours	Catch							
							Total	Chinook	Sockeye	Chum	Pink	Coho	White	Other[c]
2	6/11	1	44	6.000	2.5	0.42	0	0	0	0	0	0	0	0
2	6/11	3	51	5.125	2.5	0.42	0	0	0	0	0	0	0	0
2	6/11	3	52	5.125	2.5	0.42	0	0	0	0	0	0	0	0
2	6/11	3	59	6.000	2.5	0.42	0	0	0	0	0	0	0	0
2	6/11	3	60	6.000	2.5	0.42	0	0	0	0	0	0	0	0
2	6/11	3	67	8.125	2.5	0.42	0	0	0	0	0	0	0	0
2	6/11	3	68	8.125	2.5	0.42	0	0	0	0	0	0	0	0
2	6/12	1	75	8.125	2.5	0.42	0	0	0	0	0	0	0	0
2	6/12	1	76	8.125	2.5	0.42	0	0	0	0	0	0	0	0
2	6/12	1	83	5.125	2.5	0.42	0	0	0	0	0	0	0	0
2	6/12	1	84	5.125	2.5	0.42	0	0	0	0	0	0	0	0
2	6/12	1	91	6.000	2.5	0.42	0	0	0	0	0	0	0	0
2	6/12	1	92	6.000	2.5	0.42	0	0	0	0	0	0	0	0
2	6/12	3	99	6.000	2.5	0.42	1	1	0	0	0	0	0	0
2	6/12	3	100	6.000	2.5	0.42	0	0	0	0	0	0	0	0
2	6/12	3	107	5.125	2.5	0.42	0	0	0	0	0	0	0	0
2	6/12	3	108	5.125	2.5	0.42	0	0	0	0	0	0	0	0
2	6/12	3	115	8.125	2.5	0.42	0	0	0	0	0	0	0	0
2	6/12	3	116	8.125	2.5	0.42	0	0	0	0	0	0	0	0
2	6/13	1	123	8.125	2.5	0.41	1	1	0	0	0	0	0	0
2	6/13	1	124	8.125	2.6	0.44	3	3	0	0	0	0	0	0
2	6/13	1	131	5.125	2.5	0.42	0	0	0	0	0	0	0	0
2	6/13	1	132	5.125	2.5	0.42	0	0	0	0	0	0	0	0
2	6/13	1	139	6.000	2.5	0.42	1	1	0	0	0	0	0	0
2	6/13	1	140	6.000	2.5	0.42	0	0	0	0	0	0	0	0
2	6/13	3	147	6.000	2.5	0.42	2	2	0	0	0	0	0	0
2	6/13	3	148	6.000	2.5	0.42	0	0	0	0	0	0	0	0
2	6/13	3	155	5.125	2.5	0.42	1	1	0	0	0	0	0	0
2	6/13	3	156	5.125	2.5	0.42	0	0	0	0	0	0	0	0
2	6/13	3	163	8.125	2.5	0.42	0	0	0	0	0	0	0	0
2	6/13	3	164	8.125	2.5	0.42	0	0	0	0	0	0	0	0
2	6/14	1	171	8.125	2.5	0.42	1	1	0	0	0	0	0	0
2	6/14	1	172	8.125	2.5	0.42	0	0	0	0	0	0	0	0
2	6/14	1	179	6.000	2.5	0.42	0	0	0	0	0	0	0	0
2	6/14	1	180	6.000	2.5	0.42	0	0	0	0	0	0	0	0
2	6/14	1	187	5.125	2.5	0.42	0	0	0	0	0	0	0	0
2	6/14	1	188	5.125	2.5	0.42	0	0	0	0	0	0	0	0
2	6/14	3	195	5.125	2.5	0.42	0	0	0	0	0	0	0	0
2	6/14	3	196	5.125	2.5	0.42	0	0	0	0	0	0	0	0
2	6/14	3	203	6.000	2.5	0.42	3	3	0	0	0	0	0	0
2	6/14	3	204	6.000	2.5	0.42	0	0	0	0	0	0	0	0
2	6/14	3	211	8.125	2.5	0.42	0	0	0	0	0	0	0	0
2	6/14	3	212	8.125	2.5	0.42	1	1	0	0	0	0	0	0
2	6/15	1	219	8.125	2.5	0.42	1	1	0	0	0	0	0	0
2	6/15	1	220	8.125	2.5	0.42	0	0	0	0	0	0	0	0
2	6/15	1	227	5.125	2.5	0.42	0	0	0	0	0	0	0	0
2	6/15	1	228	5.125	2.5	0.42	0	0	0	0	0	0	0	0
2	6/15	1	235	6.000	2.5	0.42	0	0	0	0	0	0	0	0
2	6/15	1	236	6.000	2.3	0.39	0	0	0	0	0	0	0	0
2	6/15	3	243	6.000	2.5	0.42	1	1	0	0	0	0	0	0
2	6/15	3	244	6.000	2.5	0.42	0	0	0	0	0	0	0	0
2	6/15	3	251	8.125	2.5	0.42	0	0	0	0	0	0	0	0
2	6/15	3	252	8.125	2.5	0.42	0	0	0	0	0	0	0	0
2	6/15	3	259	5.125	2.5	0.42	0	0	0	0	0	0	0	0
2	6/15	3	260	5.125	2.5	0.42	0	0	0	0	0	0	0	0

Appendix D.1. Drift gillnet catch by range, date, session, drift number, mesh, and species, Nushgak River sonar project, 2000.

Range[a]	Date	Session[b]	Drift Number	Mesh (in)	Fishing Time (min)	Fathom Hours	Catch							
							Total	Chinook	Sockeye	Chum	Pink	Coho	White	Other[c]
2	6/16	1	267	5.125	2.5	0.42	0	0	0	0	0	0	0	0
2	6/16	1	268	5.125	2.5	0.42	0	0	0	0	0	0	0	0
2	6/16	1	275	6.000	2.5	0.42	2	2	0	0	0	0	0	0
2	6/16	1	276	6.000	2.5	0.42	0	0	0	0	0	0	0	0
2	6/16	1	283	8.125	2.5	0.42	0	0	0	0	0	0	0	0
2	6/16	1	284	8.125	2.5	0.42	0	0	0	0	0	0	0	0
2	6/16	3	291	8.125	2.5	0.42	0	0	0	0	0	0	0	0
2	6/16	3	292	8.125	2.5	0.42	0	0	0	0	0	0	0	0
2	6/16	3	299	6.000	2.5	0.42	1	1	0	0	0	0	0	0
2	6/16	3	300	6.000	2.5	0.42	0	0	0	0	0	0	0	0
2	6/16	3	307	5.125	2.5	0.42	1	1	0	0	0	0	0	0
2	6/16	3	308	5.125	2.5	0.42	1	1	0	0	0	0	0	0
2	6/17	1	315	5.125	2.5	0.42	1	1	0	0	0	0	0	0
2	6/17	1	316	5.125	2.5	0.42	0	0	0	0	0	0	0	0
2	6/17	1	323	6.000	2.5	0.42	0	0	0	0	0	0	0	0
2	6/17	1	324	6.000	2.5	0.42	1	1	0	0	0	0	0	0
2	6/17	1	331	8.125	2.5	0.42	2	2	0	0	0	0	0	0
2	6/17	1	332	8.125	2.5	0.42	0	0	0	0	0	0	0	0
2	6/17	3	339	8.125	2.5	0.42	0	0	0	0	0	0	0	0
2	6/17	3	340	8.125	2.5	0.42	0	0	0	0	0	0	0	0
2	6/17	3	347	6.000	2.5	0.42	0	0	0	0	0	0	0	0
2	6/17	3	348	6.000	2.5	0.42	2	1	0	1	0	0	0	0
2	6/17	3	355	5.125	2.5	0.42	0	0	0	0	0	0	0	0
2	6/17	3	356	5.125	2.6	0.43	0	0	0	0	0	0	0	0
2	6/18	1	363	5.125	2.5	0.42	0	0	0	0	0	0	0	0
2	6/18	1	364	5.125	2.5	0.42	0	0	0	0	0	0	0	0
2	6/18	1	371	6.000	2.5	0.42	0	0	0	0	0	0	0	0
2	6/18	1	372	6.000	2.5	0.42	0	0	0	0	0	0	0	0
2	6/18	1	379	8.125	2.5	0.42	0	0	0	0	0	0	0	0
2	6/18	1	380	8.125	2.5	0.42	1	0	0	1	0	0	0	0
2	6/18	3	387	8.125	2.5	0.42	0	0	0	0	0	0	0	0
2	6/18	3	388	8.125	2.5	0.42	0	0	0	0	0	0	0	0
2	6/18	3	395	5.125	2.5	0.42	0	0	0	0	0	0	0	0
2	6/18	3	396	5.125	2.5	0.42	0	0	0	0	0	0	0	0
2	6/18	3	403	6.000	2.5	0.42	0	0	0	0	0	0	0	0
2	6/18	3	404	6.000	2.5	0.42	1	1	0	0	0	0	0	0
2	6/19	3	411	8.125	2.5	0.42	1	1	0	0	0	0	0	0
2	6/19	3	412	8.125	2.5	0.42	1	1	0	0	0	0	0	0
2	6/19	3	419	6.000	2.5	0.42	1	1	0	0	0	0	0	0
2	6/19	3	420	6.000	2.5	0.42	2	2	0	0	0	0	0	0
2	6/19	3	427	5.125	2.5	0.42	0	0	0	0	0	0	0	0
2	6/19	3	428	5.125	2.5	0.42	0	0	0	0	0	0	0	0
2	6/20	1	435	5.125	2.5	0.42	1	1	0	0	0	0	0	0
2	6/20	1	436	5.125	2.5	0.42	2	2	0	0	0	0	0	0
2	6/20	1	443	6.000	2.5	0.42	2	2	0	0	0	0	0	0
2	6/20	1	444	6.000	2.5	0.42	0	0	0	0	0	0	0	0
2	6/20	1	451	8.125	2.5	0.42	1	1	0	0	0	0	0	0
2	6/20	1	452	8.125	2.8	0.46	0	0	0	0	0	0	0	0
2	6/20	2	459	8.125	2.5	0.42	1	1	0	0	0	0	0	0
2	6/20	2	460	8.125	2.5	0.42	0	0	0	0	0	0	0	0
2	6/20	2	467	6.000	2.6	0.44	0	0	0	0	0	0	0	0
2	6/20	2	468	6.000	2.5	0.42	0	0	0	0	0	0	0	0
2	6/20	2	475	5.125	2.5	0.42	0	0	0	0	0	0	0	0
2	6/20	2	476	5.125	2.5	0.42	0	0	0	0	0	0	0	0
2	6/20	3	483	5.125	2.5	0.42	1	1	0	0	0	0	0	0

Appendix D.1. Drift gillnet catch by range, date, session, drift number, mesh, and species, Nushgak River sonar project, 2000.

Range[a]	Date	Session[b]	Drift Number	Mesh (in)	Fishing Time (min)	Fathom Hours	Catch							
							Total	Chinook	Sockeye	Chum	Pink	Coho	White	Other[c]
2	6/20	3	484	5.125	2.5	0.42	0	0	0	0	0	0	0	0
2	6/20	3	491	6.000	2.5	0.42	2	2	0	0	0	0	0	0
2	6/20	3	492	6.000	2.5	0.42	0	0	0	0	0	0	0	0
2	6/20	3	499	8.125	2.5	0.42	0	0	0	0	0	0	0	0
2	6/20	3	500	8.125	2.5	0.42	0	0	0	0	0	0	0	0
2	6/21	1	507	8.125	2.5	0.42	0	0	0	0	0	0	0	0
2	6/21	1	508	8.125	2.8	0.46	0	0	0	0	0	0	0	0
2	6/21	1	515	6.000	2.5	0.42	0	0	0	0	0	0	0	0
2	6/21	1	516	6.000	2.5	0.42	0	0	0	0	0	0	0	0
2	6/21	1	523	5.125	2.5	0.42	0	0	0	0	0	0	0	0
2	6/21	1	524	5.125	2.5	0.42	1	1	0	0	0	0	0	0
2	6/21	2	531	5.125	2.5	0.42	0	0	0	0	0	0	0	0
2	6/21	2	532	5.125	2.6	0.43	0	0	0	0	0	0	0	0
2	6/21	2	539	6.000	2.5	0.42	0	0	0	0	0	0	0	0
2	6/21	2	540	6.000	2.5	0.42	0	0	0	0	0	0	0	0
2	6/21	2	547	8.125	2.5	0.42	0	0	0	0	0	0	0	0
2	6/21	2	548	8.125	2.5	0.42	1	1	0	0	0	0	0	0
2	6/21	3	555	8.125	2.5	0.42	0	0	0	0	0	0	0	0
2	6/21	3	556	8.125	2.5	0.42	0	0	0	0	0	0	0	0
2	6/21	3	563	6.000	2.5	0.42	0	0	0	0	0	0	0	0
2	6/21	3	564	6.000	2.5	0.42	0	0	0	0	0	0	0	0
2	6/21	3	571	5.125	2.5	0.42	0	0	0	0	0	0	0	0
2	6/21	3	572	5.125	2.5	0.42	0	0	0	0	0	0	0	0
2	6/22	1	579	5.125	159.0	26.50	0	0	0	0	0	0	0	0
2	6/22	1	580	5.125	150.0	25.00	0	0	0	0	0	0	0	0
2	6/22	1	587	6.000	150.0	25.00	0	0	0	0	0	0	0	0
2	6/22	1	588	6.000	150.0	25.00	0	0	0	0	0	0	0	0
2	6/22	1	595	8.125	165.0	27.50	0	0	0	0	0	0	0	0
2	6/22	1	596	8.125	154.0	25.67	0	0	0	0	0	0	0	0
2	6/22	2	603	8.125	2.5	0.42	0	0	0	0	0	0	0	0
2	6/22	2	604	8.125	2.5	0.42	0	0	0	0	0	0	0	0
2	6/22	2	611	6.000	2.5	0.42	0	0	0	0	0	0	0	0
2	6/22	2	612	6.000	2.5	0.42	1	0	0	1	0	0	0	0
2	6/22	2	619	5.125	2.5	0.42	3	0	0	3	0	0	0	0
2	6/22	2	620	5.125	2.5	0.42	0	0	0	0	0	0	0	0
2	6/22	3	627	5.125	2.5	0.42	0	0	0	0	0	0	0	0
2	6/22	3	628	5.125	2.5	0.42	0	0	0	0	0	0	0	0
2	6/22	3	635	6.000	2.5	0.42	0	0	0	0	0	0	0	0
2	6/22	3	636	6.000	2.5	0.42	0	0	0	0	0	0	0	0
2	6/22	3	643	8.125	2.5	0.42	0	0	0	0	0	0	0	0
2	6/22	3	644	8.125	2.5	0.42	0	0	0	0	0	0	0	0
2	6/23	1	651	5.125	2.5	0.42	0	0	0	0	0	0	0	0
2	6/23	1	652	5.125	2.5	0.42	0	0	0	0	0	0	0	0
2	6/23	1	659	6.000	2.5	0.42	0	0	0	0	0	0	0	0
2	6/23	1	660	6.000	2.5	0.42	0	0	0	0	0	0	0	0
2	6/23	1	667	8.125	2.5	0.42	0	0	0	0	0	0	0	0
2	6/23	1	668	8.125	2.5	0.42	0	0	0	0	0	0	0	0
2	6/23	2	675	8.125	2.5	0.42	0	0	0	0	0	0	0	0
2	6/23	2	676	8.125	2.5	0.42	0	0	0	0	0	0	0	0
2	6/23	2	683	6.000	2.5	0.42	0	0	0	0	0	0	0	0
2	6/23	2	684	6.000	2.5	0.42	0	0	0	0	0	0	0	0
2	6/23	2	691	5.125	2.5	0.42	0	0	0	0	0	0	0	0
2	6/23	2	692	5.125	2.5	0.42	0	0	0	0	0	0	0	0
2	6/24	1	699	8.125	2.5	0.42	0	0	0	0	0	0	0	0
2	6/24	1	700	8.125	2.5	0.42	0	0	0	0	0	0	0	0

Appendix D.1. Drift gillnet catch by range, date, session, drift number, mesh, and species, Nushgak River sonar project, 2000.

Range[a]	Date	Session[b]	Drift Number	Mesh (in)	Fishing Time (min)	Fathom Hours	Catch							
							Total	Chinook	Sockeye	Chum	Pink	Coho	White	Other[c]
2	6/24	1	707	6.000	2.5	0.42	0	0	0	0	0	0	0	0
2	6/24	1	708	6.000	2.5	0.42	0	0	0	0	0	0	0	0
2	6/24	1	715	5.125	2.5	0.42	0	0	0	0	0	0	0	0
2	6/24	1	716	5.125	2.5	0.42	0	0	0	0	0	0	0	0
2	6/24	2	723	5.125	2.5	0.42	0	0	0	0	0	0	0	0
2	6/24	2	724	5.125	2.5	0.42	0	0	0	0	0	0	0	0
2	6/24	2	731	6.000	2.5	0.42	0	0	0	0	0	0	0	0
2	6/24	2	732	6.000	2.5	0.42	0	0	0	0	0	0	0	0
2	6/24	2	739	8.125	2.5	0.42	0	0	0	0	0	0	0	0
2	6/24	2	740	8.125	2.8	0.46	0	0	0	0	0	0	0	0
2	6/25	1	747	5.125	2.5	0.42	1	1	0	0	0	0	0	0
2	6/25	1	748	5.125	2.5	0.42	3	3	0	0	0	0	0	0
2	6/25	1	755	6.000	2.5	0.42	5	5	0	0	0	0	0	0
2	6/25	1	756	6.000	2.5	0.42	1	1	0	0	0	0	0	0
2	6/25	1	763	8.125	2.5	0.42	3	3	0	0	0	0	0	0
2	6/25	1	764	8.125	2.5	0.42	0	0	0	0	0	0	0	0
2	6/25	2	771	8.125	2.8	0.46	3	2	0	1	0	0	0	0
2	6/25	2	772	8.125	2.5	0.42	3	3	0	0	0	0	0	0
2	6/25	2	779	6.000	2.8	0.46	5	5	0	0	0	0	0	0
2	6/25	2	780	6.000	2.5	0.42	1	1	0	0	0	0	0	0
2	6/25	2	787	5.125	2.5	0.42	5	3	0	2	0	0	0	0
2	6/25	2	788	5.125	2.5	0.42	4	3	0	1	0	0	0	0
2	6/25	3	795	5.125	2.5	0.42	1	1	0	0	0	0	0	0
2	6/25	3	796	5.125	2.5	0.42	2	1	0	1	0	0	0	0
2	6/25	3	803	6.000	1.9	0.32	0	0	0	0	0	0	0	0
2	6/25	3	804	8.125	2.5	0.42	3	3	0	0	0	0	0	0
2	6/25	3	811	8.125	2.5	0.42	2	2	0	0	0	0	0	0
2	6/26	1	812	8.125	2.5	0.42	3	2	0	1	0	0	0	0
2	6/26	1	819	8.125	2.0	0.33	2	2	0	0	0	0	0	0
2	6/26	1	820	6.000	2.0	0.33	1	1	0	0	0	0	0	0
2	6/26	1	827	6.000	2.0	0.33	1	1	0	0	0	0	0	0
2	6/26	1	828	5.125	2.5	0.42	2	1	0	1	0	0	0	0
2	6/26	1	835	5.125	2.5	0.42	1	0	0	1	0	0	0	0
2	6/26	2	836	5.125	2.6	0.43	1	1	0	0	0	0	0	0
2	6/26	2	844	5.125	2.5	0.42	0	0	0	0	0	0	0	0
2	6/26	2	851	6.000	2.5	0.42	1	1	0	0	0	0	0	0
2	6/26	2	852	6.000	2.5	0.42	0	0	0	0	0	0	0	0
2	6/26	5	859	8.125	2.6	0.43	1	1	0	0	0	0	0	0
2	6/26	5	860	8.125	2.5	0.42	1	1	0	0	0	0	0	0
2	6/26	3	867	8.125	2.5	0.42	1	1	0	0	0	0	0	0
2	6/26	3	868	8.125	2.5	0.42	0	0	0	0	0	0	0	0
2	6/26	3	875	6.000	2.5	0.42	0	0	0	0	0	0	0	0
2	6/26	3	876	6.000	2.5	0.42	0	0	0	0	0	0	0	0
2	6/26	3	883	5.125	2.5	0.42	0	0	0	0	0	0	0	0
2	6/26	3	884	5.125	2.5	0.42	2	0	0	2	0	0	0	0
2	6/27	1	891	6.000	2.4	0.40	2	2	0	0	0	0	0	0
2	6/27	1	892	6.000	2.3	0.38	2	2	0	0	0	0	0	0
2	6/27	1	899	5.125	2.5	0.42	1	1	0	0	0	0	0	0
2	6/27	1	900	5.125	2.5	0.42	2	2	0	0	0	0	0	0
2	6/27	1	907	8.125	2.5	0.42	0	0	0	0	0	0	0	0
2	6/27	1	908	8.125	2.5	0.42	0	0	0	0	0	0	0	0
2	6/27	2	915	8.125	2.5	0.42	1	1	0	0	0	0	0	0
2	6/27	2	916	8.125	2.5	0.42	0	0	0	0	0	0	0	0
2	6/27	2	923	6.000	2.6	0.43	0	0	0	0	0	0	0	0
2	6/27	2	924	6.000	2.5	0.42	0	0	0	0	0	0	0	0

Appendix D.1. Drift gillnet catch by range, date, session, drift number, mesh, and species, Nushgak River sonar project, 2000.

Range[a]	Date	Session[b]	Drift Number	Mesh (in)	Fishing Time (min)	Fathom Hours	Catch							
							Total	Chinook	Sockeye	Chum	Pink	Coho	White	Other[c]
2	6/27	2	931	5.125	2.8	0.46	0	0	0	0	0	0	0	0
2	6/27	2	932	5.125	2.8	0.47	0	0	0	0	0	0	0	0
2	6/27	3	939	5.125	2.5	0.42	1	1	0	0	0	0	0	0
2	6/27	3	940	5.125	2.5	0.42	0	0	0	0	0	0	0	0
2	6/27	3	947	6.000	2.5	0.42	0	0	0	0	0	0	0	0
2	6/27	3	948	6.000	2.5	0.42	0	0	0	0	0	0	0	0
2	6/27	3	955	8.125	2.5	0.42	0	0	0	0	0	0	0	0
2	6/27	3	956	8.125	2.5	0.42	0	0	0	0	0	0	0	0
2	6/28	1	963	8.125	2.5	0.42	1	1	0	0	0	0	0	0
2	6/28	1	964	8.125	2.5	0.42	0	0	0	0	0	0	0	0
2	6/28	1	971	6.000	2.5	0.42	0	0	0	0	0	0	0	0
2	6/28	1	972	6.000	2.5	0.42	0	0	0	0	0	0	0	0
2	6/28	1	979	5.125	2.7	0.44	1	1	0	0	0	0	0	0
2	6/28	1	980	5.125	2.5	0.42	0	0	0	0	0	0	0	0
2	6/28	2	987	5.125	2.5	0.42	0	0	0	0	0	0	0	0
2	6/28	2	988	5.125	3.0	0.50	0	0	0	0	0	0	0	0
2	6/28	2	995	6.000	2.5	0.42	4	4	0	0	0	0	0	0
2	6/28	2	996	6.000	2.8	0.46	0	0	0	0	0	0	0	0
2	6/28	2	1,003	8.125	2.8	0.46	1	1	0	0	0	0	0	0
2	6/28	2	1,004	8.125	2.5	0.42	1	1	0	0	0	0	0	0
2	6/28	3	1,011	8.125	2.5	0.42	0	0	0	0	0	0	0	0
2	6/28	3	1,012	8.125	2.5	0.42	1	1	0	0	0	0	0	0
2	6/28	3	1,019	5.125	2.5	0.42	0	0	0	0	0	0	0	0
2	6/28	3	1,020	5.125	2.5	0.42	1	0	0	1	0	0	0	0
2	6/28	3	1,027	6.000	2.5	0.42	2	1	0	1	0	0	0	0
2	6/28	3	1,028	6.000	2.5	0.42	1	0	0	1	0	0	0	0
2	6/29	1	1,035	5.125	2.5	0.42	3	3	0	0	0	0	0	0
2	6/29	1	1,036	5.125	2.5	0.42	1	0	0	1	0	0	0	0
2	6/29	1	1,043	6.000	2.5	0.42	2	2	0	0	0	0	0	0
2	6/29	1	1,044	6.000	2.5	0.42	1	1	0	0	0	0	0	0
2	6/29	1	1,051	8.125	2.5	0.42	0	0	0	0	0	0	0	0
2	6/29	1	1,052	8.125	2.5	0.42	0	0	0	0	0	0	0	0
2	6/29	2	1,059	8.125	2.6	0.44	1	1	0	0	0	0	0	0
2	6/29	2	1,060	8.125	1.5	0.25	0	0	0	0	0	0	0	0
2	6/29	2	1,067	6.000	2.5	0.42	1	1	0	0	0	0	0	0
2	6/29	2	1,068	6.000	2.5	0.42	0	0	0	0	0	0	0	0
2	6/29	2	1,075	5.125	2.5	0.42	1	1	0	0	0	0	0	0
2	6/29	2	1,076	5.125	2.5	0.42	1	1	0	0	0	0	0	0
2	6/29	3	1,083	5.125	2.5	0.42	2	1	0	1	0	0	0	0
2	6/29	3	1,084	5.125	2.5	0.42	0	0	0	0	0	0	0	0
2	6/29	3	1,091	6.000	2.5	0.42	0	0	0	0	0	0	0	0
2	6/29	3	1,092	6.000	2.5	0.42	1	0	0	1	0	0	0	0
2	6/29	3	1,099	8.125	2.5	0.42	0	0	0	0	0	0	0	0
2	6/29	3	1,100	8.125	2.5	0.42	0	0	0	0	0	0	0	0
2	6/30	1	1,107	8.125	2.5	0.42	2	2	0	0	0	0	0	0
2	6/30	1	1,108	8.125	2.5	0.42	1	0	0	1	0	0	0	0
2	6/30	1	1,115	5.125	2.5	0.42	2	2	0	0	0	0	0	0
2	6/30	1	1,116	5.125	2.5	0.42	1	0	0	1	0	0	0	0
2	6/30	1	1,123	6.000	2.5	0.42	1	1	0	0	0	0	0	0
2	6/30	1	1,124	6.000	2.5	0.42	2	2	0	0	0	0	0	0
2	6/30	2	1,131	6.000	2.5	0.42	7	0	7	0	0	0	0	0
2	6/30	2	1,132	6.000	2.5	0.42	2	0	2	0	0	0	0	0
2	6/30	2	1,139	5.125	2.0	0.33	6	4	0	2	0	0	0	0
2	6/30	2	1,140	5.125	2.5	0.42	1	1	0	0	0	0	0	0
2	6/30	2	1,147	8.125	2.5	0.42	1	1	0	0	0	0	0	0

Appendix D.1. Drift gillnet catch by range, date, session, drift number, mesh, and species, Nushgak River sonar project, 2000.

Range[a]	Date	Session[b]	Drift Number	Mesh (in)	Fishing Time (min)	Fathom Hours	Catch							
							Total	Chinook	Sockeye	Chum	Pink	Coho	White	Other[c]
2	6/30	2	1,148	8.125	2.5	0.42	0	0	0	0	0	0	0	0
2	6/30	3	1,155	8.125	2.5	0.42	2	2	0	0	0	0	0	0
2	6/30	3	1,156	8.125	2.5	0.42	0	0	0	0	0	0	0	0
2	6/30	3	1,163	5.125	2.5	0.42	3	2	1	0	0	0	0	0
2	6/30	3	1,164	5.125	2.5	0.42	0	0	0	0	0	0	0	0
2	6/30	3	1,171	6.000	2.5	0.42	3	3	0	0	0	0	0	0
2	6/30	3	1,172	6.000	2.5	0.42	0	0	0	0	0	0	0	0
2	7/01	1	1,179	6.000	2.5	0.42	4	3	1	0	0	0	0	0
2	7/01	1	1,180	6.000	2.5	0.42	2	2	0	0	0	0	0	0
2	7/01	1	1,185	5.125	2.5	0.42	2	2	0	0	0	0	0	0
2	7/01	1	1,186	5.125	2.5	0.42	4	2	0	2	0	0	0	0
2	7/01	1	1,191	8.125	2.5	0.42	0	0	0	0	0	0	0	0
2	7/01	1	1,192	8.125	2.5	0.42	1	1	0	0	0	0	0	0
2	7/01	2	1,197	8.125	2.5	0.42	2	2	0	0	0	0	0	0
2	7/01	2	1,198	8.125	2.5	0.42	1	1	0	0	0	0	0	0
2	7/01	2	1,203	6.000	2.5	0.42	1	1	0	0	0	0	0	0
2	7/01	2	1,204	6.000	2.5	0.42	0	0	0	0	0	0	0	0
2	7/01	2	1,209	5.125	2.5	0.42	4	4	0	0	0	0	0	0
2	7/01	2	1,210	5.125	2.5	0.42	2	2	0	0	0	0	0	0
2	7/01	3	1,213	5.125	2.5	0.42	1	1	0	0	0	0	0	0
2	7/01	3	1,214	5.125	2.5	0.42	1	0	1	0	0	0	0	0
2	7/01	3	1,217	6.000	2.5	0.42	1	1	0	0	0	0	0	0
2	7/01	3	1,218	6.000	2.5	0.42	0	0	0	0	0	0	0	0
2	7/01	3	1,221	8.125	2.5	0.42	1	1	0	0	0	0	0	0
2	7/01	3	1,222	8.125	2.5	0.42	0	0	0	0	0	0	0	0
2	7/02	1	1,225	8.125	2.5	0.42	1	1	0	0	0	0	0	0
2	7/02	1	1,226	8.125	2.5	0.42	0	0	0	0	0	0	0	0
2	7/02	1	1,229	5.125	2.6	0.43	0	0	0	0	0	0	0	0
2	7/02	1	1,230	5.125	2.5	0.42	0	0	0	0	0	0	0	0
2	7/02	2	1,233	6.000	2.5	0.42	2	2	0	0	0	0	0	0
2	7/02	2	1,234	6.000	2.5	0.42	2	0	0	2	0	0	0	0
2	7/02	1	1,237	6.000	2.5	0.42	0	0	0	0	0	0	0	0
2	7/02	1	1,238	6.000	2.5	0.42	2	1	1	0	0	0	0	0
2	7/02	2	1,241	5.125	3.0	0.50	0	0	0	0	0	0	0	0
2	7/02	2	1,242	5.125	2.5	0.42	1	1	0	0	0	0	0	0
2	7/02	2	1,245	8.125	2.5	0.42	1	1	0	0	0	0	0	0
2	7/02	2	1,246	8.125	2.5	0.42	3	3	0	0	0	0	0	0
2	7/02	3	1,251	8.125	2.5	0.42	0	0	0	0	0	0	0	0
2	7/02	3	1,252	8.125	2.5	0.42	0	0	0	0	0	0	0	0
2	7/02	3	1,259	5.125	2.5	0.42	0	0	0	0	0	0	0	0
2	7/02	3	1,260	5.125	2.5	0.42	0	0	0	0	0	0	0	0
2	7/02	3	1,267	6.000	2.5	0.42	2	2	0	0	0	0	0	0
2	7/02	3	1,268	6.000	2.5	0.42	1	1	0	0	0	0	0	0
2	7/03	1	1,273	6.000	2.5	0.42	6	6	0	0	0	0	0	0
2	7/03	1	1,274	6.000	2.5	0.42	2	2	0	0	0	0	0	0
2	7/03	1	1,279	5.125	2.5	0.42	0	0	0	0	0	0	0	0
2	7/03	1	1,280	5.125	2.5	0.42	0	0	0	0	0	0	0	0
2	7/03	1	1,285	8.125	2.5	0.42	2	2	0	0	0	0	0	0
2	7/03	1	1,286	8.125	2.5	0.42	3	3	0	0	0	0	0	0
2	7/03	2	1,291	8.125	2.5	0.42	0	0	0	0	0	0	0	0
2	7/03	2	1,292	8.125	2.6	0.43	0	0	0	0	0	0	0	0
2	7/03	2	1,297	5.125	2.5	0.42	1	1	0	0	0	0	0	0
2	7/03	2	1,298	5.125	2.5	0.42	1	1	0	0	0	0	0	0
2	7/03	2	1,303	6.000	2.5	0.42	3	3	0	0	0	0	0	0
2	7/03	2	1,304	6.000	2.6	0.43	0	0	0	0	0	0	0	0

Appendix D.1. Drift gillnet catch by range, date, session, drift number, mesh, and species, Nushgak River sonar project, 2000.

Range[a]	Date	Session[b]	Drift Number	Mesh (in)	Fishing Time (min)	Fathom Hours	Catch							
							Total	Chinook	Sockeye	Chum	Pink	Coho	White	Other[c]
2	7/03	3	1,311	6.000	2.5	0.42	1	1	0	0	0	0	0	0
2	7/03	3	1,312	6.000	2.5	0.42	0	0	0	0	0	0	0	0
2	7/03	3	1,319	5.125	2.5	0.42	1	1	0	0	0	0	0	0
2	7/03	3	1,320	5.125	2.5	0.42	0	0	0	0	0	0	0	0
2	7/03	3	1,327	8.125	2.5	0.42	1	1	0	0	0	0	0	0
2	7/03	3	1,328	8.125	2.5	0.42	1	1	0	0	0	0	0	0
2	7/04	1	1,335	8.125	2.5	0.42	0	0	0	0	0	0	0	0
2	7/04	1	1,336	8.125	2.5	0.42	0	0	0	0	0	0	0	0
2	7/04	1	1,341	5.125	2.5	0.42	2	2	0	0	0	0	0	0
2	7/04	1	1,342	5.125	2.5	0.42	2	2	0	0	0	0	0	0
2	7/04	1	1,347	6.000	2.5	0.42	2	2	0	0	0	0	0	0
2	7/04	1	1,348	6.000	2.5	0.42	1	1	0	0	0	0	0	0
2	7/04	2	1,353	6.000	2.5	0.42	4	4	0	0	0	0	0	0
2	7/04	2	1,354	6.000	2.5	0.42	3	2	1	0	0	0	0	0
2	7/04	2	1,359	5.125	2.5	0.42	0	0	0	0	0	0	0	0
2	7/04	2	1,360	5.125	2.5	0.42	0	0	0	0	0	0	0	0
2	7/04	2	1,365	8.125	2.5	0.42	2	2	0	0	0	0	0	0
2	7/04	3	1,366	8.125	2.5	0.42	2	1	1	0	0	0	0	0
2	7/04	3	1,371	8.125	2.5	0.42	0	0	0	0	0	0	0	0
2	7/04	3	1,372	5.125	2.5	0.42	2	1	0	1	0	0	0	0
2	7/04	3	1,379	5.125	2.5	0.42	3	1	1	1	0	0	0	0
2	7/04	3	1,380	6.000	2.5	0.42	0	0	0	0	0	0	0	0
2	7/04	3	1,385	6.000	2.5	0.42	0	0	0	0	0	0	0	0
2	7/05	1	1,386	6.000	2.5	0.42	2	2	0	0	0	0	0	0
2	7/05	1	1,391	6.000	2.5	0.42	1	1	0	0	0	0	0	0
2	7/05	1	1,392	5.125	2.0	0.33	0	0	0	0	0	0	0	0
2	7/05	1	1,397	5.125	2.5	0.42	0	0	0	0	0	0	0	0
2	7/05	1	1,398	8.125	2.5	0.42	0	0	0	0	0	0	0	0
2	7/05	1	1,403	8.125	2.5	0.42	0	0	0	0	0	0	0	0
2	7/05	2	1,404	8.125	2.5	0.42	1	1	0	0	0	0	0	0
2	7/05	2	1,409	8.125	2.5	0.42	0	0	0	0	0	0	0	0
2	7/05	2	1,410	5.125	2.5	0.42	1	1	0	0	0	0	0	0
2	7/05	2	1,415	5.125	2.6	0.44	1	1	0	0	0	0	0	0
2	7/05	2	1,416	6.000	2.5	0.42	3	1	1	1	0	0	0	0
2	7/05	2	1,421	6.000	2.6	0.43	0	0	0	0	0	0	0	0
2	7/05	3	1,422	6.000	2.5	0.42	1	1	0	0	0	0	0	0
2	7/05	3	1,427	6.000	2.5	0.42	1	1	0	0	0	0	0	0
2	7/05	3	1,428	5.125	2.5	0.42	0	0	0	0	0	0	0	0
2	7/05	3	1,435	5.125	2.5	0.42	0	0	0	0	0	0	0	0
2	7/05	3	1,436	8.125	2.5	0.42	0	0	0	0	0	0	0	0
2	7/05	3	1,443	8.125	2.5	0.42	0	0	0	0	0	0	0	0
2	7/06	1	1,444	8.125	2.5	0.42	2	2	0	0	0	0	0	0
2	7/06	1	1,451	8.125	2.5	0.42	2	2	0	0	0	0	0	0
2	7/06	1	1,451	5.125	2.5	0.42	2	2	0	0	0	0	0	0
2	7/06	1	1,452	5.125	2.4	0.41	1	1	0	0	0	0	0	0
2	7/06	1	1,459	6.000	2.5	0.42	2	0	1	1	0	0	0	0
2	7/06	1	1,460	6.000	2.5	0.42	0	0	0	0	0	0	0	0
2	7/06	2	1,467	6.000	2.5	0.42	0	0	0	0	0	0	0	0
2	7/06	2	1,468	6.000	2.5	0.42	0	0	0	0	0	0	0	0
2	7/06	2	1,475	5.125	2.5	0.42	0	0	0	0	0	0	0	0
2	7/06	2	1,476	5.125	2.5	0.42	0	0	0	0	0	0	0	0
2	7/06	2	1,483	8.125	2.5	0.42	1	1	0	0	0	0	0	0
2	7/06	2	1,484	8.125	2.5	0.42	1	1	0	0	0	0	0	0
2	7/06	3	1,491	8.125	2.5	0.42	0	0	0	0	0	0	0	0
2	7/06	3	1,492	8.125	2.5	0.42	1	1	0	0	0	0	0	0

Appendix D.1. Drift gillnet catch by range, date, session, drift number, mesh, and species, Nushgak River sonar project, 2000.

Range[a]	Date	Session[b]	Drift Number	Mesh (in)	Fishing Time (min)	Fathom Hours	Catch							
							Total	Chinook	Sockeye	Chum	Pink	Coho	White	Other[c]
2	7/06	3	1,499	5.125	2.5	0.42	1	1	0	0	0	0	0	0
2	7/06	3	1,500	5.125	2.5	0.42	0	0	0	0	0	0	0	0
2	7/06	3	1,507	6.000	2.5	0.42	1	1	0	0	0	0	0	0
2	7/06	3	1,508	6.000	2.5	0.42	1	1	0	0	0	0	0	0
2	7/07	1	1,515	5.125	2.5	0.42	1	1	0	0	0	0	0	0
2	7/07	1	1,516	5.125	2.5	0.42	1	1	0	0	0	0	0	0
2	7/07	1	1,523	6.000	2.5	0.42	4	4	0	0	0	0	0	0
2	7/07	1	1,524	6.000	2.5	0.42	0	0	0	0	0	0	0	0
2	7/07	1	1,531	8.125	2.5	0.42	2	2	0	0	0	0	0	0
2	7/07	1	1,532	8.125	2.5	0.42	1	1	0	0	0	0	0	0
2	7/07	3	1,539	6.000	2.5	0.42	3	3	0	0	0	0	0	0
2	7/07	3	1,540	6.000	2.5	0.42	1	1	0	0	0	0	0	0
2	7/07	3	1,547	8.125	2.5	0.42	0	0	0	0	0	0	0	0
2	7/07	3	1,548	8.125	2.5	0.42	0	0	0	0	0	0	0	0
2	7/07	3	1,555	5.125	2.5	0.42	2	1	0	1	0	0	0	0
2	7/07	3	1,556	5.125	2.5	0.42	0	0	0	0	0	0	0	0
2	7/08	1	1,563	5.125	2.5	0.42	2	2	0	0	0	0	0	0
2	7/08	1	1,564	5.125	2.5	0.42	0	0	0	0	0	0	0	0
2	7/08	1	1,571	6.000	2.5	0.42	1	1	0	0	0	0	0	0
2	7/08	1	1,572	6.000	2.5	0.42	0	0	0	0	0	0	0	0
2	7/08	1	1,579	8.125	2.5	0.42	1	1	0	0	0	0	0	0
2	7/08	1	1,580	8.125	2.5	0.42	0	0	0	0	0	0	0	0
2	7/08	2	1,587	8.125	2.5	0.42	0	0	0	0	0	0	0	0
2	7/08	2	1,588	8.125	2.5	0.42	0	0	0	0	0	0	0	0
2	7/08	2	1,595	5.125	2.5	0.42	1	1	0	0	0	0	0	0
2	7/08	2	1,596	5.125	2.5	0.42	0	0	0	0	0	0	0	0
2	7/08	2	1,603	6.000	2.5	0.42	1	1	0	0	0	0	0	0
2	7/08	2	1,604	6.000	2.5	0.42	2	2	0	0	0	0	0	0
2	7/08	3	1,611	6.000	2.5	0.42	4	4	0	0	0	0	0	0
2	7/08	3	1,612	6.000	2.5	0.42	1	1	0	0	0	0	0	0
2	7/08	3	1,619	5.125	2.6	0.43	1	1	0	0	0	0	0	0
2	7/08	3	1,620	5.125	2.6	0.43	0	0	0	0	0	0	0	0
2	7/08	3	1,627	8.125	2.5	0.42	1	1	0	0	0	0	0	0
2	7/08	3	1,628	8.125	2.5	0.42	0	0	0	0	0	0	0	0
2	7/09	1	1,635	8.125	2.5	0.42	3	3	0	0	0	0	0	0
2	7/09	1	1,636	8.125	2.5	0.42	1	1	0	0	0	0	0	0
2	7/09	1	1,643	6.000	2.5	0.42	7	7	0	0	0	0	0	0
2	7/09	1	1,644	6.000	2.5	0.42	1	0	1	0	0	0	0	0
2	7/09	1	1,651	5.125	2.5	0.42	1	1	0	0	0	0	0	0
2	7/09	1	1,652	5.125	2.5	0.42	0	0	0	0	0	0	0	0
2	7/09	2	1,659	5.125	2.5	0.42	1	1	0	0	0	0	0	0
2	7/09	2	1,660	5.125	2.5	0.42	0	0	0	0	0	0	0	0
2	7/09	2	1,667	8.125	2.6	0.43	0	0	0	0	0	0	0	0
2	7/09	2	1,668	8.125	2.5	0.42	0	0	0	0	0	0	0	0
2	7/09	2	1,675	6.000	2.5	0.42	0	0	0	0	0	0	0	0
2	7/09	2	1,676	6.000	2.5	0.42	0	0	0	0	0	0	0	0
2	7/09	3	1,683	6.000	2.5	0.42	2	2	0	0	0	0	0	0
2	7/09	3	1,684	6.000	2.5	0.42	0	0	0	0	0	0	0	0
2	7/09	3	1,691	5.125	2.5	0.42	1	1	0	0	0	0	0	0
2	7/09	3	1,692	5.125	2.5	0.42	2	1	1	0	0	0	0	0
2	7/09	3	1,699	8.125	2.5	0.42	0	0	0	0	0	0	0	0
2	7/09	3	1,700	8.125	2.5	0.42	0	0	0	0	0	0	0	0
2	7/10	1	1,707	8.125	2.5	0.42	2	2	0	0	0	0	0	0
2	7/10	1	1,708	8.125	2.5	0.42	1	1	0	0	0	0	0	0
2	7/10	1	1,715	5.125	2.5	0.42	0	0	0	0	0	0	0	0

Appendix D.1. Drift gillnet catch by range, date, session, drift number, mesh, and species, Nushgak River sonar project, 2000.

Range[a]	Date	Session[b]	Drift Number	Mesh (in)	Fishing Time (min)	Fathom Hours	Catch							
							Total	Chinook	Sockeye	Chum	Pink	Coho	White	Other[c]
2	7/10	1	1,716	5.125	2.5	0.42	1	1	0	0	0	0	0	0
2	7/10	1	1,723	6.000	2.5	0.42	1	1	0	0	0	0	0	0
2	7/10	1	1,724	6.000	2.5	0.42	1	1	0	0	0	0	0	0
2	7/10	2	1,731	6.000	2.5	0.42	1	1	0	0	0	0	0	0
2	7/10	2	1,732	6.000	2.5	0.42	0	0	0	0	0	0	0	0
2	7/10	2	1,739	5.125	2.5	0.42	0	0	0	0	0	0	0	0
2	7/10	2	1,740	5.125	2.5	0.42	1	0	1	0	0	0	0	0
2	7/10	2	1,747	8.125	2.5	0.42	0	0	0	0	0	0	0	0
2	7/10	2	1,748	8.125	2.5	0.42	0	0	0	0	0	0	0	0
2	7/10	3	1,755	8.125	2.5	0.42	1	0	0	1	0	0	0	0
2	7/10	3	1,756	8.125	2.5	0.42	0	0	0	0	0	0	0	0
2	7/10	3	1,763	5.125	2.5	0.42	1	1	0	0	0	0	0	0
2	7/10	3	1,764	5.125	2.5	0.42	0	0	0	0	0	0	0	0
2	7/10	3	1,771	6.000	2.5	0.42	0	0	0	0	0	0	0	0
2	7/10	3	1,772	6.000	2.5	0.42	0	0	0	0	0	0	0	0
2	7/11	1	1,779	5.125	2.5	0.42	0	0	0	0	0	0	0	0
2	7/11	1	1,780	5.125	2.5	0.42	0	0	0	0	0	0	0	0
2	7/11	1	1,787	6.000	2.5	0.42	1	1	0	0	0	0	0	0
2	7/11	1	1,788	6.000	2.5	0.42	1	1	0	0	0	0	0	0
2	7/11	1	1,795	8.125	2.5	0.42	1	1	0	0	0	0	0	0
2	7/11	1	1,796	8.125	2.5	0.42	0	0	0	0	0	0	0	0
2	7/11	2	1,803	8.125	2.5	0.42	0	0	0	0	0	0	0	0
2	7/11	2	1,804	8.125	2.5	0.42	0	0	0	0	0	0	0	0
2	7/11	2	1,811	5.125	2.5	0.42	0	0	0	0	0	0	0	0
2	7/11	2	1,812	5.125	2.5	0.42	0	0	0	0	0	0	0	0
2	7/11	2	1,819	6.000	2.5	0.42	0	0	0	0	0	0	0	0
2	7/11	2	1,820	6.000	2.5	0.42	0	0	0	0	0	0	0	0
2	7/12	1	1,827	8.125	2.5	0.42	0	0	0	0	0	0	0	0
2	7/12	1	1,828	8.125	2.5	0.42	0	0	0	0	0	0	0	0
2	7/12	1	1,835	5.125	2.5	0.42	0	0	0	0	0	0	0	0
2	7/12	1	1,836	5.125	2.5	0.42	1	0	1	0	0	0	0	0
2	7/12	1	1,843	6.000	2.5	0.42	0	0	0	0	0	0	0	0
2	7/12	1	1,844	6.000	2.5	0.42	0	0	0	0	0	0	0	0
2	7/12	2	1,851	6.000	2.5	0.42	1	1	0	0	0	0	0	0
2	7/12	2	1,852	6.000	2.5	0.42	1	1	0	0	0	0	0	0
2	7/12	2	1,859	5.125	2.5	0.42	0	0	0	0	0	0	0	0
2	7/12	2	1,860	5.125	2.5	0.42	0	0	0	0	0	0	0	0
2	7/12	2	1,867	8.125	2.5	0.42	0	0	0	0	0	0	0	0
2	7/12	2	1,868	8.125	2.5	0.42	0	0	0	0	0	0	0	0
2	7/12	3	1,875	8.125	2.5	0.42	0	0	0	0	0	0	0	0
2	7/12	3	1,876	8.125	2.6	0.43	1	1	0	0	0	0	0	0
2	7/12	3	1,883	5.125	2.6	0.43	0	0	0	0	0	0	0	0
2	7/12	3	1,884	5.125	2.5	0.42	0	0	0	0	0	0	0	0
2	7/12	3	1,891	6.000	2.5	0.42	0	0	0	0	0	0	0	0
2	7/12	3	1,892	6.000	2.5	0.42	0	0	0	0	0	0	0	0
2	7/13	1	1,899	5.125	2.5	0.42	0	0	0	0	0	0	0	0
2	7/13	1	1,900	5.125	2.5	0.42	0	0	0	0	0	0	0	0
2	7/13	1	1,907	6.000	2.5	0.42	0	0	0	0	0	0	0	0
2	7/13	1	1,908	6.000	2.5	0.42	0	0	0	0	0	0	0	0
2	7/13	1	1,915	8.125	2.5	0.42	0	0	0	0	0	0	0	0
2	7/13	1	1,916	8.125	2.5	0.42	0	0	0	0	0	0	0	0
2	7/13	1	1,923	8.125	2.5	0.42	2	0	2	0	0	0	0	0
2	7/13	2	1,924	8.125	2.5	0.42	3	3	0	0	0	0	0	0
2	7/13	2	1,931	8.125	2.5	0.42	0	0	0	0	0	0	0	0
2	7/13	2	1,932	5.125	2.5	0.42	0	0	0	0	0	0	0	0

Appendix D.1. Drift gillnet catch by range, date, session, drift number, mesh, and species, Nushgak River sonar project, 2000.

Range[a]	Date	Session[b]	Drift Number	Mesh (in)	Fishing Time (min)	Fathom Hours	Catch							
							Total	Chinook	Sockeye	Chum	Pink	Coho	White	Other[c]
2	7/13	2	1,939	5.125	2.5	0.42	0	0	0	0	0	0	0	0
2	7/13	2	1,940	6.000	2.5	0.42	1	1	0	0	0	0	0	0
2	7/13	2	1,947	6.000	2.5	0.42	0	0	0	0	0	0	0	0
2	7/13	3	1,948	6.000	2.5	0.42	0	0	0	0	0	0	0	0
2	7/13	3	1,955	6.000	2.5	0.42	1	0	0	1	0	0	0	0
2	7/13	3	1,956	5.125	2.5	0.42	1	1	0	0	0	0	0	0
2	7/13	3	1,963	5.125	2.5	0.42	0	0	0	0	0	0	0	0
2	7/13	3	1,964	8.125	2.5	0.42	0	0	0	0	0	0	0	0
2	7/13	3	1,971	8.125	2.5	0.42	0	0	0	0	0	0	0	0
2	7/14	1	1,972	8.125	2.5	0.42	2	2	0	0	0	0	0	0
2	7/14	1	1,979	8.125	2.5	0.42	0	0	0	0	0	0	0	0
2	7/14	1	1,980	5.125	2.5	0.42	2	0	2	0	0	0	0	0
2	7/14	1	1,987	5.125	2.5	0.42	1	0	1	0	0	0	0	0
2	7/14	1	1,988	6.000	2.5	0.42	0	0	0	0	0	0	0	0
2	7/14	1	1,995	6.000	2.5	0.42	0	0	0	0	0	0	0	0
2	7/14	2	1,996	6.000	2.5	0.42	2	1	1	0	0	0	0	0
2	7/14	2	2,003	6.000	2.5	0.42	1	1	0	0	0	0	0	0
2	7/14	2	2,004	5.125	2.5	0.42	0	0	0	0	0	0	0	0
2	7/14	2	2,011	5.125	2.5	0.42	0	0	0	0	0	0	0	0
2	7/14	2	2,012	8.125	2.5	0.42	0	0	0	0	0	0	0	0
2	7/14	2	2,019	8.125	2.5	0.42	0	0	0	0	0	0	0	0
2	7/14	3	2,020	8.125	2.5	0.42	0	0	0	0	0	0	0	0
2	7/14	3	2,027	8.125	2.5	0.42	0	0	0	0	0	0	0	0
2	7/14	3	2,028	5.125	2.5	0.42	0	0	0	0	0	0	0	0
2	7/14	3	2,035	5.125	2.5	0.42	0	0	0	0	0	0	0	0
2	7/14	3	2,036	6.000	2.5	0.42	0	0	0	0	0	0	0	0
2	7/14	3	2,043	6.000	2.5	0.42	0	0	0	0	0	0	0	0
2	7/15	1	2,044	5.125	2.5	0.42	1	1	0	0	0	0	0	0
2	7/15	1	2,051	5.125	2.5	0.42	1	0	0	1	0	0	0	0
2	7/15	1	2,052	6.000	2.5	0.42	0	0	0	0	0	0	0	0
2	7/15	1	2,059	6.000	2.5	0.42	0	0	0	0	0	0	0	0
2	7/15	1	2,060	8.125	2.6	0.43	0	0	0	0	0	0	0	0
2	7/15	1	2,067	8.125	2.5	0.42	0	0	0	0	0	0	0	0
2	7/15	3	2,068	8.125	2.5	0.42	0	0	0	0	0	0	0	0
2	7/15	3	2,075	8.125	2.5	0.42	1	1	0	0	0	0	0	0
2	7/15	3	2,076	6.000	2.5	0.42	0	0	0	0	0	0	0	0
2	7/15	3	2,083	6.000	2.5	0.42	0	0	0	0	0	0	0	0
2	7/15	3	2,084	5.125	2.5	0.42	0	0	0	0	0	0	0	0
2	7/15	3	2,091	5.125	2.5	0.42	0	0	0	0	0	0	0	0
2	7/16	1	2,092	5.125	2.5	0.42	1	1	0	0	0	0	0	0
2	7/16	1	2,099	5.125	2.5	0.42	0	0	0	0	0	0	0	0
2	7/16	1	2,100	6.000	2.5	0.42	1	0	0	0	0	0	0	0
2	7/16	1	2,107	6.000	2.5	0.42	0	0	0	0	0	0	0	0
2	7/16	1	2,108	8.125	2.5	0.42	2	2	0	0	0	0	0	0
2	7/16	1	2,115	8.125	2.5	0.42	0	0	0	0	0	0	0	0
2	7/16	3	2,116	8.125	2.5	0.42	4	4	0	0	0	0	0	0
2	7/16	3	2,123	8.125	2.5	0.42	0	0	0	0	0	0	0	0
2	7/16	3	2,124	5.125	2.5	0.42	0	0	0	0	0	0	0	0
2	7/16	3	2,131	5.125	2.5	0.42	1	0	0	1	0	0	0	0
2	7/16	3	2,132	6.000	2.5	0.42	0	0	0	0	0	0	0	0
2	7/16	3	2,139	6.000	2.5	0.42	1	0	0	0	0	0	0	0
2	7/17	1	2,140	6.000	2.5	0.42	4	4	0	0	0	0	0	0
2	7/17	1	2,147	6.000	2.5	0.42	0	0	0	0	0	0	0	0
2	7/17	1	2,148	5.125	2.5	0.42	1	0	1	0	0	0	0	0
2	7/17	1	2,155	5.125	2.5	0.42	0	0	0	0	0	0	0	0

Appendix D.1. Drift gillnet catch by range, date, session, drift number, mesh, and species, Nushgak River sonar project, 2000.

Range[a]	Date	Session[b]	Drift Number	Mesh (in)	Fishing Time (min)	Fathom Hours	Catch							
							Total	Chinook	Sockeye	Chum	Pink	Coho	White	Other[c]
2	7/17	1	2,156	8.125	2.5	0.42	1	1	0	0	0	0	0	0
2	7/17	1	2,163	8.125	2.5	0.42	0	0	0	0	0	0	0	0
2	7/17	3	2,164	8.125	2.5	0.42	0	0	0	0	0	0	0	0
2	7/17	3	2,171	8.125	2.5	0.42	0	0	0	0	0	0	0	0
2	7/17	3	2,172	5.125	2.5	0.42	0	0	0	0	0	0	0	0
2	7/17	3	2,179	5.125	2.5	0.42	0	0	0	0	0	0	0	0
2	7/17	3	2,180	6.000	2.5	0.42	0	0	0	0	0	0	0	0
2	7/17	3	2,187	6.000	2.5	0.42	0	0	0	0	0	0	0	0
2	7/18	1	2,188	6.000	2.5	0.42	0	0	0	0	0	0	0	0
2	7/18	1	2,195	6.000	2.0	0.33	0	0	0	0	0	0	0	0
2	7/18	1	2,196	5.125	2.5	0.42	1	1	0	0	0	0	0	0
2	7/18	1	2,203	5.125	2.5	0.42	1	1	0	0	0	0	0	0
2	7/18	1	2,204	8.125	2.5	0.42	0	0	0	0	0	0	0	0
2	7/18	1	2,211	8.125	2.5	0.42	0	0	0	0	0	0	0	0
2	7/18	3	2,212	8.125	2.5	0.42	0	0	0	0	0	0	0	0
2	7/18	3	2,219	8.125	2.5	0.42	0	0	0	0	0	0	0	0
2	7/18	3	2,220	6.000	2.5	0.42	0	0	0	0	0	0	0	0
2	7/18	3	2,227	6.000	2.5	0.42	0	0	0	0	0	0	0	0
2	7/18	3	2,228	5.125	2.5	0.42	1	0	0	1	0	0	0	0
2	7/18	3	2,235	5.125	2.5	0.42	0	0	0	0	0	0	0	0
2	7/19	1	2,236	5.125	2.5	0.42	0	0	0	0	0	0	0	0
2	7/19	1	2,243	5.125	2.5	0.42	1	1	0	0	0	0	0	0
2	7/19	1	2,244	6.000	2.5	0.42	0	0	0	0	0	0	0	0
2	7/19	1	2,251	6.000	2.5	0.42	0	0	0	0	0	0	0	0
2	7/19	1	2,252	8.125	2.5	0.42	1	1	0	0	0	0	0	0
2	7/19	1	2,259	8.125	2.5	0.42	0	0	0	0	0	0	0	0
2	7/19	3	2,260	8.125	2.5	0.42	2	2	0	0	0	0	0	0
2	7/19	3	2,267	8.125	2.5	0.42	0	0	0	0	0	0	0	0
2	7/19	3	2,268	5.125	2.5	0.42	1	1	0	0	0	0	0	0
2	7/19	3	2,275	5.125	2.5	0.42	0	0	0	0	0	0	0	0
2	7/19	3	2,276	6.000	2.5	0.42	2	2	0	0	0	0	0	0
2	7/19	3	2,283	6.000	2.5	0.42	0	0	0	0	0	0	0	0
2	7/20	1	2,284	6.000	2.5	0.42	1	1	0	0	0	0	0	0
2	7/20	1	2,291	6.000	2.5	0.42	2	0	1	1	0	0	0	0
2	7/20	1	2,292	5.125	2.5	0.42	2	2	0	0	0	0	0	0
2	7/20	1	2,299	5.125	2.5	0.42	0	0	0	0	0	0	0	0
2	7/20	3	2,300	5.125	2.5	0.42	0	0	0	0	0	0	0	0
2	7/20	3	2,307	5.125	2.5	0.42	0	0	0	0	0	0	0	0
2	7/20	3	2,308	6.000	2.5	0.42	1	1	0	0	0	0	0	0
2	7/20	3	2,315	6.000	2.0	0.33	0	0	0	0	0	0	0	0
2	7/20	3	2,316	8.125	2.5	0.42	0	0	0	0	0	0	0	0
2	7/20	3	2,323	8.125	2.5	0.42	1	1	0	0	0	0	0	0
2	7/21	1	2,324	8.125	2.5	0.42	1	1	0	0	0	0	0	0
2	7/21	1	2,331	8.125	2.5	0.42	0	0	0	0	0	0	0	0
2	7/21	1	2,332	5.125	2.5	0.42	1	0	0	0	0	0	0	0
2	7/21	1	2,339	5.125	2.6	0.43	0	0	0	0	0	0	0	0
2	7/21	1	2,340	6.000	2.5	0.42	0	0	0	0	0	0	0	0
2	7/21	1	2,347	6.000	2.5	0.42	0	0	0	0	0	0	0	0
2	7/21	3	2,348	6.000	2.5	0.42	0	0	0	0	0	0	0	0
2	7/21	3	2,355	6.000	2.5	0.42	0	0	0	0	0	0	0	0
2	7/21	3	2,356	5.125	2.5	0.42	1	1	0	0	0	0	0	0
2	7/21	3	2,339	5.125	2.5	0.42	1	1	0	0	0	0	0	0
2	7/21	3	2,363	8.125	2.5	0.42	2	2	0	0	0	0	0	0
2	7/21	3	2,364	8.125	2.5	0.42	0	0	0	0	0	0	0	0
2	7/22	1	2,371	8.125	2.5	0.42	1	1	0	0	0	0	0	0

Appendix D.1. Drift gillnet catch by range, date, session, drift number, mesh, and species, Nushgak River sonar project, 2000.

Range[a]	Date	Session[b]	Drift Number	Mesh (in)	Fishing Time (min)	Fathom Hours	Catch							
							Total	Chinook	Sockeye	Chum	Pink	Coho	White	Other[c]
2	7/22	1	2,372	8.125	2.5	0.42	0	0	0	0	0	0	0	0
2	7/22	1	2,380	5.125	2.5	0.42	0	0	0	0	0	0	0	0
2	7/22	1	2,387	5.125	2.5	0.42	0	0	0	0	0	0	0	0
2	7/22	1	2,388	6.000	2.5	0.42	0	0	0	0	0	0	0	0
2	7/22	1	2,395	6.000	2.5	0.42	0	0	0	0	0	0	0	0
2	7/23	1	2,396	8.125	2.5	0.42	0	0	0	0	0	0	0	0
2	7/23	1	2,403	8.125	2.5	0.42	0	0	0	0	0	0	0	0
2	7/23	1	2,404	5.125	2.5	0.42	0	0	0	0	0	0	0	0
2	7/23	1	2,411	5.125	2.5	0.42	0	0	0	0	0	0	0	0
2	7/23	1	2,412	6.000	2.5	0.42	0	0	0	0	0	0	0	0
2	7/23	1	2,419	6.000	2.5	0.42	1	1	0	0	0	0	0	0
2	7/23	3	2,420	6.000	2.5	0.42	0	0	0	0	0	0	0	0
2	7/23	3	2,427	6.000	2.5	0.42	0	0	0	0	0	0	0	0
2	7/23	3	2,428	5.125	2.5	0.42	0	0	0	0	0	0	0	0
2	7/23	3	2,435	5.125	2.5	0.42	0	0	0	0	0	0	0	0
2	7/23	3	2,436	8.125	2.5	0.42	0	0	0	0	0	0	0	0
2	7/23	3	2,443	8.125	2.5	0.42	0	0	0	0	0	0	0	0
2	7/24	1	2,444	8.125	2.5	0.42	0	0	0	0	0	0	0	0
2	7/24	1	2,451	8.125	2.5	0.42	0	0	0	0	0	0	0	0
2	7/24	1	2,452	5.125	2.5	0.42	1	1	0	0	0	0	0	0
2	7/24	1	2,459	5.125	2.5	0.42	0	0	0	0	0	0	0	0
2	7/24	1	2,460	6.000	2.5	0.42	0	0	0	0	0	0	0	0
2	7/24	1	2,467	6.000	2.5	0.42	0	0	0	0	0	0	0	0
2	7/24	3	2,468	6.000	2.5	0.42	0	0	0	0	0	0	0	0
2	7/24	3	2,475	6.000	2.5	0.42	0	0	0	0	0	0	0	0
2	7/24	3	2,476	5.125	2.5	0.42	0	0	0	0	0	0	0	0
2	7/24	3	2,483	5.125	2.5	0.42	0	0	0	0	0	0	0	0
2	7/24	3	2,484	8.125	2.5	0.42	0	0	0	0	0	0	0	0
2	7/24	3	2,491	8.125	2.5	0.42	0	0	0	0	0	0	0	0
2	7/25	1	2,492	4.500	2.5	0.42	0	0	0	0	0	0	0	0
2	7/25	1	2,499	4.500	2.5	0.42	1	1	0	0	0	0	0	0
2	7/25	1	2,500	5.125	2.5	0.42	0	0	0	0	0	0	0	0
2	7/25	1	2,507	5.125	2.5	0.42	0	0	0	0	0	0	0	0
2	7/25	1	2,508	6.000	2.5	0.42	0	0	0	0	0	0	0	0
2	7/25	1	2,515	6.000	2.5	0.42	0	0	0	0	0	0	0	0
2	7/25	3	2,516	6.000	2.5	0.42	0	0	0	0	0	0	0	0
2	7/25	3	2,523	6.000	2.5	0.42	0	0	0	0	0	0	0	0
2	7/25	3	2,524	5.125	2.5	0.42	0	0	0	0	0	0	0	0
2	7/25	3	2,531	5.125	2.4	0.41	0	0	0	0	0	0	0	0
2	7/25	3	2,532	4.500	2.5	0.42	1	0	0	0	0	1	0	0
2	7/25	3	2,539	4.500	2.5	0.42	0	0	0	0	0	0	0	0
2	7/26	1	2,540	4.500	2.5	0.42	0	0	0	0	0	0	0	0
2	7/26	1	2,547	4.500	2.5	0.42	0	0	0	0	0	0	0	0
2	7/26	1	2,548	5.125	2.5	0.42	0	0	0	0	0	0	0	0
2	7/26	1	2,556	5.125	2.5	0.42	0	0	0	0	0	0	0	0
2	7/26	1	2,557	6.000	2.5	0.42	0	0	0	0	0	0	0	0
2	7/26	1	2,558	6.000	2.5	0.42	0	0	0	0	0	0	0	0
2	7/26	3	2,568	6.000	2.5	0.42	0	0	0	0	0	0	0	0
2	7/26	3	2,569	6.000	2.5	0.42	0	0	0	0	0	0	0	0
2	7/26	3	2,570	5.125	2.5	0.42	0	0	0	0	0	0	0	0
2	7/26	3	2,580	5.125	2.5	0.42	0	0	0	0	0	0	0	0
2	7/26	3	2,581	4.500	2.5	0.42	0	0	0	0	0	0	0	0
2	7/26	3	2,582	4.500	2.5	0.42	0	0	0	0	0	0	0	0
2	7/27	1	2,592	4.500	2.5	0.42	0	0	0	0	0	0	0	0
2	7/27	1	2,593	4.500	2.5	0.42	0	0	0	0	0	0	0	0

Appendix D.1. Drift gillnet catch by range, date, session, drift number, mesh, and species, Nushgak River sonar project, 2000.

Range[a]	Date	Session[b]	Drift Number	Mesh (in)	Fishing Time (min)	Fathom Hours	Catch							
							Total	Chinook	Sockeye	Chum	Pink	Coho	White	Other[c]
2	7/27	1	2,594	5.125	2.5	0.42	0	0	0	0	0	0	0	0
2	7/27	1	2,604	5.125	2.5	0.42	0	0	0	0	0	0	0	0
2	7/27	1	2,605	6.000	2.5	0.42	0	0	0	0	0	0	0	0
2	7/27	1	2,606	6.000	2.5	0.42	0	0	0	0	0	0	0	0
2	7/27	3	2,616	6.000	2.5	0.42	0	0	0	0	0	0	0	0
2	7/27	3	2,617	6.000	2.5	0.42	0	0	0	0	0	0	0	0
2	7/27	3	2,618	5.125	2.5	0.42	0	0	0	0	0	0	0	0
2	7/27	3	2,628	5.125	2.5	0.42	0	0	0	0	0	0	0	0
2	7/27	3	2,629	4.500	2.5	0.42	1	1	0	0	0	0	0	0
2	7/27	3	2,630	4.500	2.5	0.42	0	0	0	0	0	0	0	0
2	7/28	1	2,640	4.500	2.5	0.42	0	0	0	0	0	0	0	0
2	7/28	1	2,641	4.500	2.5	0.42	1	0	0	0	1	0	0	0
2	7/28	1	2,642	5.125	2.5	0.42	0	0	0	0	0	0	0	0
2	7/28	1	2,652	5.125	2.5	0.42	0	0	0	0	0	0	0	0
2	7/28	1	2,653	6.000	2.5	0.42	0	0	0	0	0	0	0	0
2	7/28	1	2,654	6.000	2.5	0.42	0	0	0	0	0	0	0	0
2	7/28	3	2,664	6.000	2.5	0.42	0	0	0	0	0	0	0	0
2	7/28	3	2,665	6.000	2.5	0.42	0	0	0	0	0	0	0	0
2	7/28	3	2,666	5.125	2.5	0.42	0	0	0	0	0	0	0	0
2	7/28	3	2,676	5.125	2.5	0.42	0	0	0	0	0	0	0	0
2	7/28	3	2,677	4.500	2.5	0.42	0	0	0	0	0	0	0	0
2	7/28	3	2,678	4.500	2.5	0.42	0	0	0	0	0	0	0	0
2	7/29	1	2,688	4.500	2.5	0.42	4	0	0	0	3	1	0	0
2	7/29	1	2,689	4.500	2.5	0.42	5	0	0	0	4	1	0	0
2	7/29	1	2,690	5.125	2.5	0.42	0	0	0	0	0	0	0	0
2	7/29	1	2,700	5.125	2.5	0.42	0	0	0	0	0	0	0	0
2	7/29	1	2,701	6.000	2.5	0.42	0	0	0	0	0	0	0	0
2	7/29	1	2,702	6.000	2.5	0.42	0	0	0	0	0	0	0	0
2	7/29	3	2,712	6.000	2.5	0.42	1	0	0	0	0	1	0	0
2	7/29	3	2,713	6.000	2.5	0.42	0	0	0	0	0	0	0	0
2	7/29	3	2,714	5.125	2.5	0.42	3	0	0	0	0	3	0	0
2	7/29	3	2,724	5.125	2.5	0.42	0	0	0	0	0	0	0	0
2	7/29	3	2,725	4.500	2.5	0.42	0	0	0	0	0	0	0	0
2	7/29	3	2,726	4.500	2.5	0.42	0	0	0	0	0	0	0	0
2	7/30	1	2,736	4.500	2.5	0.42	0	0	0	0	0	0	0	0
2	7/30	1	2,737	4.500	2.5	0.42	0	0	0	0	0	0	0	0
2	7/30	1	2,738	5.125	2.5	0.42	0	0	0	0	0	0	0	0
2	7/30	1	2,748	5.125	2.5	0.42	0	0	0	0	0	0	0	0
2	7/30	1	2,749	6.000	2.5	0.42	3	1	0	0	1	1	0	0
2	7/30	1	2,750	6.000	2.5	0.42	0	0	0	0	0	0	0	0
2	7/30	3	2,760	6.000	2.5	0.42	0	0	0	0	0	0	0	0
2	7/30	3	2,761	6.000	2.5	0.42	0	0	0	0	0	0	0	0
2	7/30	3	2,762	5.125	2.5	0.42	0	0	0	0	0	0	0	0
2	7/30	3	2,772	5.125	2.5	0.42	0	0	0	0	0	0	0	0
2	7/30	3	2,773	4.500	2.5	0.42	0	0	0	0	0	0	0	0
2	7/30	3	2,774	4.500	2.5	0.42	0	0	0	0	0	0	0	0
2	7/30	3	2,784	4.500	2.5	0.42	2	0	0	0	0	2	0	0
2	7/31	1	2,785	4.500	2.5	0.42	0	0	0	0	0	0	0	0
2	7/31	1	2,786	4.500	2.5	0.42	0	0	0	0	0	0	0	0
2	7/31	1	2,796	5.125	2.8	0.47	0	0	0	0	0	0	0	0
2	7/31	1	2,797	5.125	2.5	0.42	0	0	0	0	0	0	0	0
2	7/31	1	2,798	6.000	2.5	0.42	0	0	0	0	0	0	0	0
2	7/31	1	2,808	6.000	2.5	0.42	0	0	0	0	0	0	0	0
2	7/31	3	2,809	6.000	2.5	0.42	1	0	0	0	0	1	0	0
2	7/31	3	2,810	6.000	2.5	0.42	0	0	0	0	0	0	0	0

Appendix D.1. Drift gillnet catch by range, date, session, drift number, mesh, and species, Nushgak River sonar project, 2000.

Range[a]	Date	Session[b]	Drift Number	Mesh (in)	Fishing Time (min)	Fathom Hours	Catch							
							Total	Chinook	Sockeye	Chum	Pink	Coho	White	Other[c]
2	7/31	3	2,820	4.500	2.5	0.42	0	0	0	0	0	0	0	0
2	7/31	3	2,821	4.500	2.5	0.42	2	0	0	0	0	2	0	0
2	7/31	3	2,822	5.125	2.5	0.42	1	0	0	0	0	1	0	0
2	7/31	3	2,832	5.125	2.5	0.42	2	0	0	0	0	2	0	0
2	8/01	1	2,833	5.125	2.0	0.33	0	0	0	0	0	0	0	0
2	8/01	1	2,834	5.125	2.6	0.44	2	0	0	0	0	2	0	0
2	8/01	1	2,844	4.500	2.0	0.33	7	0	0	0	0	7	0	0
2	8/01	1	2,845	4.500	1.5	0.25	2	0	0	0	0	2	0	0
2	8/01	1	2,846	6.000	2.0	0.33	3	0	0	0	0	3	0	0
2	8/01	1	2,856	6.000	2.5	0.42	5	0	0	0	0	5	0	0
2	8/01	3	2,857	6.000	1.5	0.25	4	0	0	0	0	4	0	0
2	8/01	3	2,858	6.000	1.5	0.25	1	0	0	0	0	1	0	0
2	8/01	3	2,868	5.125	1.5	0.25	1	0	0	0	0	1	0	0
2	8/01	3	2,869	5.125	1.5	0.25	2	0	0	0	0	2	0	0
2	8/01	3	2,870	4.500	1.5	0.25	4	0	0	0	0	4	0	0
2	8/01	3	2,880	4.500	1.5	0.25	1	0	0	0	0	1	0	0
2	8/02	1	2,881	4.500	2.0	0.33	0	0	0	0	0	0	0	0
2	8/02	1	2,882	4.500	2.5	0.42	0	0	0	0	0	0	0	0
2	8/02	1	2,892	5.125	2.5	0.42	0	0	0	0	0	0	0	0
2	8/02	1	2,893	5.125	2.5	0.42	0	0	0	0	0	0	0	0
2	8/02	1	2,894	6.000	2.5	0.42	3	0	0	0	0	3	0	0
2	8/02	1	2,904	6.000	2.5	0.42	1	0	0	0	0	1	0	0
2	8/02	3	2,905	6.000	2.5	0.42	4	1	0	0	0	3	0	0
2	8/02	3	2,906	6.000	2.5	0.42	1	0	0	0	0	1	0	0
2	8/02	3	2,916	4.500	2.5	0.42	1	0	0	0	0	1	0	0
2	8/02	3	2,917	4.500	2.5	0.42	1	0	0	0	0	1	0	0
2	8/02	3	2,918	5.125	2.1	0.35	1	0	0	0	0	1	0	0
2	8/02	3	2,928	5.125	2.5	0.42	2	0	0	0	0	2	0	0
2	8/03	1	2,929	5.125	2.5	0.42	0	0	0	0	0	0	0	0
2	8/03	1	2,930	5.125	2.5	0.42	0	0	0	0	0	0	0	0
2	8/03	1	2,940	6.000	2.5	0.42	1	0	0	0	0	1	0	0
2	8/03	1	2,941	6.000	2.7	0.46	1	0	0	0	1	0	0	0
2	8/03	1	2,942	4.500	2.7	0.46	8	0	0	0	1	7	0	0
2	8/03	1	2,952	4.500	2.3	0.39	3	0	0	0	0	3	0	0
2	8/03	3	2,953	4.500	2.5	0.42	2	0	0	0	0	2	0	0
2	8/03	3	2,954	4.500	2.5	0.42	3	0	0	0	0	3	0	0
2	8/03	3	2,964	5.125	2.5	0.42	0	0	0	0	0	0	0	0
2	8/03	3	2,965	5.125	2.5	0.42	2	0	0	0	1	1	0	0
2	8/03	3	2,966	6.000	2.0	0.33	2	0	0	0	0	2	0	0
2	8/03	3	2,976	6.000	1.5	0.25	5	0	0	0	0	5	0	0
2	8/04	1	2,977	6.000	2.0	0.33	2	0	0	0	0	2	0	0
2	8/04	1	2,978	6.000	1.8	0.30	0	0	0	0	0	0	0	0
2	8/04	1	2,988	4.500	2.0	0.33	4	0	0	0	3	1	0	0
2	8/04	1	2,989	4.500	2.0	0.33	12	0	0	0	6	6	0	0
2	8/04	1	2,990	5.125	1.5	0.25	2	0	0	0	0	2	0	0
2	8/04	3	3,000	5.125	1.5	0.25	1	0	0	0	0	1	0	0
2	8/04	3	3,001	5.125	1.5	0.25	4		0	0	0	4	0	0
2	8/04	3	3,002	4.500	1.5	0.25	6	0	0	0	0	6	0	0
2	8/04	3	3,012	4.500	1.5	0.25	4	0	0	0	0	4	0	0
2	8/04	3	3,013	6.000	1.5	0.25	1	0	0	0	0	1	0	0
2	8/04	3	3,014	6.000	1.5	0.25	0	0	0	0	0	0	0	0
2	8/05	1	3,024	6.000	1.5	0.25	1	0	0	0	0	1	0	0
2	8/05	1	3,025	6.000	2.5	0.42	0	0	0	0	0	0	0	0
2	8/05	1	3,026	4.500	1.5	0.25	6	0	0	0	3	3	0	0
2	8/05	1	3,036	4.500	1.5	0.25	2	0	0	0	2	0	0	0

Appendix D.1. Drift gillnet catch by range, date, session, drift number, mesh, and species, Nushgak River sonar project, 2000.

Range[a]	Date	Session[b]	Drift Number	Mesh (in)	Fishing Time (min)	Fathom Hours	Catch							
							Total	Chinook	Sockeye	Chum	Pink	Coho	White	Other[c]
2	8/05	1	3,037	5.125	1.5	0.25	5	0	0	0	1	4	0	0
2	8/05	1	3,038	5.125	1.5	0.25	4	0	0	0	1	3	0	0
2	8/05	3	3,048	5.125	2.0	0.33	0	0	0	0	0	0	0	0
2	8/05	3	3,049	5.125	2.0	0.33	0	0	0	0	0	0	0	0
2	8/05	3	3,050	4.500	1.5	0.25	3	0	0	0	1	2	0	0
2	8/05	3	3,060	4.500	1.5	0.25	0	0	0	0	0	0	0	0
2	8/05	3	3,061	6.000	1.6	0.26	0	0	0	0	0	0	0	0
2	8/05	3	3,062	6.000	1.6	0.26	0	0	0	0	0	0	0	0
2	8/06	1	3,072	6.000	2.5	0.42	1	0	0	0	0	1	0	0
2	8/06	1	3,073	6.000	2.5	0.42	0	0	0	0	0	0	0	0
2	8/06	1	3,074	4.500	2.5	0.42	1	0	0	0	0	1	0	0
2	8/06	1	3,084	4.500	2.5	0.42	0	0	0	0	0	0	0	0
2	8/06	1	3,085	5.125	2.5	0.42	0	0	0	0	0	0	0	0
2	8/06	1	3,086	5.125	2.5	0.42	7	0	0	0	0	7	0	0
2	8/06	3	3,096	5.125	2.0	0.33	1	0	0	0	0	1	0	0
2	8/06	3	3,097	5.125	2.2	0.36	0	0	0	0	0	0	0	0
2	8/06	3	3,098	6.000	2.0	0.33	1	0	0	0	0	1	0	0
2	8/06	3	3,108	6.000	2.1	0.36	1	0	0	0	0	1	0	0
2	8/06	3	3,109	4.500	2.0	0.33	0	0	0	0	0	0	0	0
2	8/06	3	3,110	4.500	2.3	0.39	0	0	0	0	0	0	0	0
2	8/07	3	3,120	6.000	2.0	0.33	1	0	0	0	0	1	0	0
2	8/07	3	3,121	6.000	2.5	0.42	1	0	0	0	0	1	0	0
2	8/07	3	3,122	5.125	2.5	0.42	0	0	0	0	0	0	0	0
2	8/07	3	3,132	5.125	2.5	0.42	2	0	0	0	0	2	0	0
2	8/07	3	3,133	4.500	2.5	0.42	0	0	0	0	0	0	0	0
2	8/07	3	3,134	4.500	2.5	0.42	0	0	0	0	0	0	0	0
2	8/08	1	3,144	4.500	2.5	0.42	0	0	0	0	0	0	0	0
2	8/08	1	3,145	4.500	2.5	0.42	0	0	0	0	0	0	0	0
2	8/08	1	3,146	5.125	2.5	0.42	1	0	0	0	0	0	1	0
2	8/08	1	3,156	5.125	2.5	0.42	0	0	0	0	0	0	0	0
2	8/08	1	3,157	6.000	2.8	0.46	0	0	0	0	0	0	0	0
2	8/08	1	3,158	6.000	2.5	0.42	0	0	0	0	0	0	0	0
2	8/08	3	3,168	6.000	2.5	0.42	1	0	0	0	0	1	0	0
2	8/08	3	3,169	6.000	2.5	0.42	0	0	0	0	0	0	0	0
2	8/08	3	3,170	4.500	2.5	0.42	0	0	0	0	0	0	0	0
2	8/08	3	3,180	4.500	2.5	0.42	2	0	0	0	0	2	0	0
2	8/08	3	3,181	5.125	2.5	0.42	0	0	0	0	0	0	0	0
2	8/08	3	3,182	5.125	2.5	0.42	0	0	0	0	0	0	0	0
2	8/09	3	3,192	5.125	2.5	0.42	0	0	0	0	0	0	0	0
2	8/09	3	3,193	5.125	2.5	0.42	0	0	0	0	0	0	0	0
2	8/09	3	3,194	4.500	2.5	0.42	0	0	0	0	0	0	0	0
2	8/09	3	3,204	4.500	2.5	0.42	0	0	0	0	0	0	0	0
2	8/09	3	3,205	6.000	2.5	0.42	0	0	0	0	0	0	0	0
2	8/09	3	3,206	6.000	2.5	0.42	0	0	0	0	0	0	0	0
2	8/10	1	3,216	6.000	2.5	0.42	1	0	0	0	0	1	0	0
2	8/10	1	3,217	6.000	2.5	0.42	0	0	0	0	0	0	0	0
2	8/10	1	3,218	5.125	2.5	0.42	0	0	0	0	0	0	0	0
2	8/10	1	3,228	5.125	2.5	0.42	1	0	0	0	0	1	0	0
2	8/10	1	3,229	4.500	2.5	0.42	0	0	0	0	0	0	0	0
2	8/10	1	3,230	4.500	2.5	0.42	0	0	0	0	0	0	0	0
2	8/10	3	3,240	4.500	2.5	0.42	0	0	0	0	0	0	0	0
2	8/10	3	3,241	4.500	2.5	0.42	0	0	0	0	0	0	0	0
2	8/10	3	3,242	5.125	2.5	0.42	0	0	0	0	0	0	0	0
2	8/10	3	3,252	5.125	2.5	0.42	0	0	0	0	0	0	0	0
2	8/10	3	3,253	6.000	2.5	0.42	0	0	0	0	0	0	0	0

Appendix D.1. Drift gillnet catch by range, date, session, drift number, mesh, and species, Nushgak River sonar project, 2000.

Range[a]	Date	Session[b]	Drift Number	Mesh (in)	Fishing Time (min)	Fathom Hours	Catch							
							Total	Chinook	Sockeye	Chum	Pink	Coho	White	Other[c]
2	8/10	3	3,254	6.000	2.5	0.42	0	0	0	0	0	0	0	0
2	8/11	1	3,264	6.000	2.5	0.42	0	0	0	0	0	0	0	0
2	8/11	1	3,265	6.000	2.5	0.42	0	0	0	0	0	0	0	0
2	8/11	1	3,266	4.500	2.5	0.42	0	0	0	0	0	0	0	0
2	8/11	1	3,276	4.500	2.5	0.42	0	0	0	0	0	0	0	0
2	8/11	1	3,277	5.125	2.5	0.42	0	0	0	0	0	0	0	0
2	8/11	1	3,278	5.125	2.5	0.42	0	0	0	0	0	0	0	0
2	8/11	3	3,288	5.125	2.5	0.42	1	0	0	0	0	1	0	0
2	8/11	3	3,289	5.125	2.5	0.42	0	0	0	0	0	0	0	0
2	8/11	3	3,290	6.000	2.5	0.42	0	0	0	0	0	0	0	0
2	8/11	3	3,300	6.000	2.5	0.42	0	0	0	0	0	0	0	0
2	8/11	3	3,301	4.500	2.5	0.42	0	0	0	0	0	0	0	0
2	8/11	3	3,302	4.500	2.5	0.42	0	0	0	0	0	0	0	0
2	8/12	1	3,312	4.500	2.5	0.42	0	0	0	0	0	0	0	0
2	8/12	1	3,313	4.500	2.5	0.42	0	0	0	0	0	0	0	0
2	8/12	1	3,314	5.125	2.5	0.42	0	0	0	0	0	0	0	0
2	8/12	1	3,324	5.125	2.5	0.42	0	0	0	0	0	0	0	0
2	8/12	1	3,325	6.000	2.5	0.42	0	0	0	0	0	0	0	0
2	8/12	1	3,326	6.000	2.5	0.42	0	0	0	0	0	0	0	0
2	8/12	3	3,336	6.000	2.5	0.42	0	0	0	0	0	0	0	0
2	8/12	3	3,337	6.000	2.5	0.42	0	0	0	0	0	0	0	0
2	8/12	3	3,338	5.125	2.5	0.42	0	0	0	0	0	0	0	0
2	8/12	3	3,348	5.125	2.5	0.42	0	0	0	0	0	0	0	0
2	8/12	3	3,349	4.500	2.5	0.42	0	0	0	0	0	0	0	0
2	8/12	3	3,350	4.500	2.5	0.42	0	0	0	0	0	0	0	0
2	8/13	1	3,360	4.500	2.5	0.42	0	0	0	0	0	0	0	0
2	8/13	1	3,361	4.500	2.5	0.42	0	0	0	0	0	0	0	0
2	8/13	1	3,362	5.125	2.5	0.42	0	0	0	0	0	0	0	0
2	8/13	1	3,372	5.125	2.5	0.42	0	0	0	0	0	0	0	0
2	8/13	1	3,373	6.000	2.5	0.42	0	0	0	0	0	0	0	0
2	8/13	1	3,374	6.000	2.5	0.42	0	0	0	0	0	0	0	0
2	8/13	3	3,384	6.000	2.5	0.42	0	0	0	0	0	0	0	0
2	8/13	3	3,385	6.000	2.5	0.42	0	0	0	0	0	0	0	0
2	8/13	3	3,386	4.500	2.5	0.42	0	0	0	0	0	0	0	0
2	8/13	3	3,396	4.500	2.5	0.42	0	0	0	0	0	0	0	0
2	8/13	3	3,397	5.125	2.3	0.39	0	0	0	0	0	0	0	0
2	8/13	3	3,398	5.125	2.6	0.43	0	0	0	0	0	0	0	0
2	8/14	1	3,408	5.125	2.5	0.42	0	0	0	0	0	0	0	0
2	8/14	1	3,409	5.125	2.5	0.42	0	0	0	0	0	0	0	0
2	8/14	1	3,410	4.500	2.5	0.42	1	0	0	0	0	1	0	0
2	8/14	1	3,420	4.500	2.5	0.42	2	0	0	0	0	2	0	0
2	8/14	1	3,421	6.000	2.5	0.42	0	0	0	0	0	0	0	0
2	8/14	1	3,422	6.000	2.5	0.42	1	0	0	0	0	1	0	0
2	8/14	3	3,432	6.000	2.5	0.42	2	0	0	0	0	2	0	0
2	8/14	3	3,433	6.000	2.5	0.42	0	0	0	0	0	0	0	0
2	8/14	3	3,434	4.500	2.5	0.42	0	0	0	0	0	0	0	0
2	8/14	3	3,444	4.500	2.5	0.42	1	0	0	0	0	1	0	0
2	8/14	3	3,445	5.125	2.5	0.42	1	0	0	0	0	1	0	0
2	8/14	3	3,446	5.125	2.5	0.42	0	0	0	0	0	0	0	0
2	8/15	1	3,456	5.125	2.5	0.42	0	0	0	0	0	0	0	0
2	8/15	1	3,457	5.125	2.5	0.42	0	0	0	0	0	0	0	0
2	8/15	1	3,458	4.500	2.5	0.42	0	0	0	0	0	0	0	0
2	8/15	1	3,468	4.500	2.5	0.42	0	0	0	0	0	0	0	0
2	8/15	1	3,469	6.000	2.5	0.42	0	0	0	0	0	0	0	0
2	8/15	1	3,470	6.000	2.5	0.42	0		0	0	0	0	0	0

Appendix D.1. Drift gillnet catch by range, date, session, drift number, mesh, and species, Nushgak River sonar project, 2000.

							Catch							
Range[a]	Date	Session[b]	Drift Number	Mesh (in)	Fishing Time (min)	Fathom Hours	Total	Chinook	Sockeye	Chum	Pink	Coho	White	Other[c]
2	8/15	3	3,480	6.000	2.5	0.42	0	0	0	0	0	0	0	0
2	8/15	3	3,481	6.000	2.5	0.42	0	0	0	0	0	0	0	0
2	8/15	3	3,482	4.500	2.5	0.42	0	0	0	0	0	0	0	0
2	8/15	3	3,492	4.500	2.5	0.42	0	0	0	0	0	0	0	0
2	8/15	3	3,493	5.125	2.5	0.42	0	0	0	0	0	0	0	0
2	8/15	3	3,494	5.125	2.5	0.42	0	0	0	0	0	0	0	0
2	8/16	1	3,504	5.125	2.5	0.42	1	0	0	0	0	1	0	0
2	8/16	1	3,505	5.125	2.6	0.43	0	0	0	0	0	0	0	0
2	8/16	1	3,506	6.000	2.3	0.39	0	0	0	0	0	0	0	0
2	8/16	1	3,516	6.000	2.5	0.42	1	0	0	0	0	1	0	0
2	8/16	1	3,517	4.500	2.5	0.42	0	0	0	0	0	0	0	0
2	8/16	1	3,518	4.500	2.5	0.42	0	0	0	0	0	0	0	0
2	8/16	3	3,528	4.500	2.5	0.42	3	0	0	0	0	3	0	0
2	8/16	3	3,529	4.500	2.5	0.42	1	0	0	0	0	1	0	0
2	8/16	3	3,530	5.125	2.5	0.42	0	0	0	0	0	0	0	0
2	8/16	3	3,540	5.125	2.5	0.42	0	0	0	0	0	0	0	0
2	8/16	3	3,541	6.000	2.5	0.42	0	0	0	0	0	0	0	0
2	8/16	3	3,542	6.000	2.5	0.42	0	0	0	0	0	0	0	0
2	8/17	1	3,552	6.000	2.5	0.42	0	0	0	0	0	0	0	0
2	8/17	1	3,553	6.000	2.5	0.42	0	0	0	0	0	0	0	0
2	8/17	1	3,554	4.500	2.5	0.42	1	0	0	0	0	1	0	0
2	8/17	1	3,564	4.500	2.5	0.42	0	0	0	0	0	0	0	0
2	8/17	1	3,565	5.125	2.5	0.42	0	0	0	0	0	0	0	0
2	8/17	1	3,566	5.125	2.5	0.42	0	0	0	0	0	0	0	0
2	8/17	3	3,576	5.125	2.5	0.42	4	0	0	0	0	4	0	0
2	8/17	3	3,577	5.125	2.5	0.42	1	0	0	0	0	1	0	0
2	8/17	3	3,578	4.500	2.5	0.42	0	0	0	0	0	0	0	0
2	8/17	3	3,588	4.500	2.5	0.42	0	0	0	0	0	0	0	0
2	8/17	3	3,589	6.000	2.5	0.42	0	0	0	0	0	0	0	0
2	8/17	3	3,590	6.000	2.5	0.42	0	0	0	0	0	0	0	0
Range 2 Total -					3,183.5	533.19	620	349	30	41	29	167	1	0
3	6/10	3	5	5.125	2.5	0.42	0	0	0	0	0	0	0	0
3	6/10	3	6	5.125	2.5	0.42	0	0	0	0	0	0	0	0
3	6/10	3	13	6.000	2.5	0.42	0	0	0	0	0	0	0	0
3	6/10	3	14	6.000	2.5	0.42	0	0	0	0	0	0	0	0
3	6/10	3	21	8.125	2.5	0.42	0	0	0	0	0	0	0	0
3	6/10	3	22	8.125	2.5	0.42	0	0	0	0	0	0	0	0
3	6/11	1	29	8.125	2.5	0.42	0	0	0	0	0	0	0	0
3	6/11	1	30	8.125	2.5	0.42	0	0	0	0	0	0	0	0
3	6/11	1	37	5.125	2.5	0.42	0	0	0	0	0	0	0	0
3	6/11	1	38	5.125	2.5	0.42	0	0	0	0	0	0	0	0
3	6/11	1	45	6.000	2.5	0.42	0	0	0	0	0	0	0	0
3	6/11	1	46	6.000	2.5	0.42	0	0	0	0	0	0	0	0
3	6/11	3	53	5.125	2.5	0.42	0	0	0	0	0	0	0	0
3	6/11	3	54	5.125	2.5	0.42	0	0	0	0	0	0	0	0
3	6/11	3	61	6.000	2.5	0.42	1	1	0	0	0	0	0	0
3	6/11	3	62	6.000	2.5	0.42	0	0	0	0	0	0	0	0
3	6/11	3	69	8.125	2.5	0.42	0	0	0	0	0	0	0	0
3	6/11	3	70	8.125	2.5	0.42	0	0	0	0	0	0	0	0
3	6/12	1	77	8.125	2.5	0.42	1	1	0	0	0	0	0	0
3	6/12	1	78	8.125	2.5	0.42	0	0	0	0	0	0	0	0
3	6/12	1	85	5.125	2.5	0.42	0	0	0	0	0	0	0	0
3	6/12	1	86	5.125	2.5	0.42	1	0	0	1	0	0	0	0

Appendix D.1. Drift gillnet catch by range, date, session, drift number, mesh, and species, Nushgak River sonar project, 2000.

Range[a]	Date	Session[b]	Drift Number	Mesh (in)	Fishing Time (min)	Fathom Hours	Catch							
							Total	Chinook	Sockeye	Chum	Pink	Coho	White	Other[c]
3	6/12	1	93	6.000	2.5	0.42	0	0	0	0	0	0	0	0
3	6/12	1	94	6.000	2.5	0.42	2	0	0	2	0	0	0	0
3	6/12	3	101	6.000	2.5	0.42	0	0	0	0	0	0	0	0
3	6/12	3	102	6.000	2.5	0.42	0	0	0	0	0	0	0	0
3	6/12	3	109	5.125	2.5	0.42	1	0	0	1	0	0	0	0
3	6/12	3	110	5.125	2.5	0.42	1	1	0	0	0	0	0	0
3	6/12	3	117	8.125	2.5	0.42	0	0	0	0	0	0	0	0
3	6/12	3	118	8.125	2.5	0.42	0	0	0	0	0	0	0	0
3	6/13	1	125	8.125	2.5	0.41	0	0	0	0	0	0	0	0
3	6/13	1	126	8.125	2.5	0.42	0	0	0	0	0	0	0	0
3	6/13	1	133	5.125	2.6	0.44	0	0	0	0	0	0	0	0
3	6/13	1	134	5.125	2.5	0.42	0	0	0	0	0	0	0	0
3	6/13	1	141	6.000	2.5	0.42	4	0	0	4	0	0	0	0
3	6/13	1	142	6.000	2.5	0.41	0	0	0	0	0	0	0	0
3	6/13	3	149	6.000	2.5	0.42	0	0	0	0	0	0	0	0
3	6/13	3	150	6.000	2.5	0.42	0	0	0	0	0	0	0	0
3	6/13	3	157	5.125	2.5	0.42	0	0	0	0	0	0	0	0
3	6/13	3	158	5.125	2.5	0.42	0	0	0	0	0	0	0	0
3	6/13	3	165	8.125	2.5	0.42	0	0	0	0	0	0	0	0
3	6/13	3	166	8.125	2.5	0.42	0	0	0	0	0	0	0	0
3	6/14	1	173	8.125	2.7	0.45	0	0	0	0	0	0	0	0
3	6/14	1	174	8.125	2.5	0.42	1	0	0	1	0	0	0	0
3	6/14	1	181	6.000	2.5	0.42	0	0	0	0	0	0	0	0
3	6/14	1	182	6.000	2.5	0.42	0	0	0	0	0	0	0	0
3	6/14	1	189	5.125	2.5	0.42	0	0	0	0	0	0	0	0
3	6/14	1	190	5.125	2.5	0.42	1	0	0	1	0	0	0	0
3	6/14	3	197	5.125	2.5	0.42	0	0	0	0	0	0	0	0
3	6/14	3	198	5.125	2.5	0.42	0	0	0	0	0	0	0	0
3	6/14	3	205	6.000	2.5	0.42	0	0	0	0	0	0	0	0
3	6/14	3	206	6.000	2.5	0.42	1	0	0	1	0	0	0	0
3	6/14	3	213	8.125	2.5	0.42	0	0	0	0	0	0	0	0
3	6/14	3	214	8.125	2.5	0.42	0	0	0	0	0	0	0	0
3	6/15	1	221	8.125	2.5	0.42	0	0	0	0	0	0	0	0
3	6/15	1	222	8.125	2.5	0.42	0	0	0	0	0	0	0	0
3	6/15	1	229	5.125	2.5	0.42	0	0	0	0	0	0	0	0
3	6/15	1	230	5.125	2.5	0.42	0	0	0	0	0	0	0	0
3	6/15	1	237	6.000	2.5	0.42	0	0	0	0	0	0	0	0
3	6/15	1	238	6.000	2.5	0.42	0	0	0	0	0	0	0	0
3	6/15	3	245	6.000	2.5	0.42	0	0	0	0	0	0	0	0
3	6/15	3	246	6.000	2.5	0.42	0	0	0	0	0	0	0	0
3	6/15	3	253	8.125	2.5	0.42	0	0	0	0	0	0	0	0
3	6/15	3	254	8.125	2.5	0.42	0	0	0	0	0	0	0	0
3	6/15	3	261	5.125	2.5	0.42	0	0	0	0	0	0	0	0
3	6/15	3	262	5.125	2.5	0.42	0	0	0	0	0	0	0	0
3	6/16	1	269	5.125	2.5	0.42	1	0	0	1	0	0	0	0
3	6/16	1	270	5.125	2.5	0.42	0	0	0	0	0	0	0	0
3	6/16	1	277	6.000	2.5	0.42	0	0	0	0	0	0	0	0
3	6/16	1	278	6.000	2.5	0.42	0	0	0	0	0	0	0	0
3	6/16	1	285	8.125	2.5	0.42	0	0	0	0	0	0	0	0
3	6/16	1	286	8.125	2.5	0.42	0	0	0	0	0	0	0	0
3	6/16	3	293	8.125	2.5	0.42	0	0	0	0	0	0	0	0
3	6/16	3	294	8.125	2.5	0.42	0	0	0	0	0	0	0	0
3	6/16	3	301	6.000	2.5	0.42	0	0	0	0	0	0	0	0
3	6/16	3	302	6.000	2.5	0.42	1	0	0	1	0	0	0	0
3	6/16	3	309	5.125	2.5	0.42	0	0	0	0	0	0	0	0

Appendix D.1. Drift gillnet catch by range, date, session, drift number, mesh, and species, Nushgak River sonar project, 2000.

Range[a]	Date	Session[b]	Drift Number	Mesh (in)	Fishing Time (min)	Fathom Hours	Catch							
							Total	Chinook	Sockeye	Chum	Pink	Coho	White	Other[c]
3	6/16	3	310	5.125	2.5	0.42	1	0	0	1	0	0	0	0
3	6/17	1	317	5.125	2.5	0.42	2	0	0	2	0	0	0	0
3	6/17	1	318	5.125	2.5	0.42	0	0	0	0	0	0	0	0
3	6/17	1	325	6.000	2.5	0.42	0	0	0	0	0	0	0	0
3	6/17	1	326	6.000	2.5	0.42	2	0	0	2	0	0	0	0
3	6/17	1	333	8.125	2.5	0.42	0	0	0	0	0	0	0	0
3	6/17	1	334	8.125	2.5	0.42	0	0	0	0	0	0	0	0
3	6/17	3	341	8.125	2.5	0.42	0	0	0	0	0	0	0	0
3	6/17	3	342	8.125	2.5	0.42	0	0	0	0	0	0	0	0
3	6/17	3	349	6.000	2.5	0.42	1	1	0	0	0	0	0	0
3	6/17	3	350	6.000	2.5	0.42	1	1	0	0	0	0	0	0
3	6/17	3	357	5.125	2.5	0.42	2	0	0	2	0	0	0	0
3	6/17	3	358	5.125	2.6	0.44	2	1	1	0	0	0	0	0
3	6/18	1	365	5.125	2.5	0.42	0	0	0	0	0	0	0	0
3	6/18	1	366	5.125	2.3	0.39	0	0	0	0	0	0	0	0
3	6/18	1	373	6.000	2.8	0.46	0	0	0	0	0	0	0	0
3	6/18	1	374	6.000	2.5	0.42	0	0	0	0	0	0	0	0
3	6/18	1	381	8.125	2.5	0.42	0	0	0	0	0	0	0	0
3	6/18	1	382	8.125	2.5	0.42	0	0	0	0	0	0	0	0
3	6/18	3	389	8.125	2.5	0.42	0	0	0	0	0	0	0	0
3	6/18	3	390	8.125	2.5	0.42	0	0	0	0	0	0	0	0
3	6/18	3	397	5.125	2.5	0.42	0	0	0	0	0	0	0	0
3	6/18	3	398	5.125	1.7	0.29	1	1	0	0	0	0	0	0
3	6/18	3	399	5.125	2.5	0.42	0	0	0	0	0	0	0	0
3	6/18	3	400	5.125	2.5	0.42	0	0	0	0	0	0	0	0
3	6/18	3	405	6.000	2.5	0.42	0	0	0	0	0	0	0	0
3	6/18	3	406	6.000	2.5	0.42	0	0	0	0	0	0	0	0
3	6/19	3	437	8.125	2.5	0.42	0	0	0	0	0	0	0	0
3	6/19	3	438	8.125	2.6	0.43	1	0	1	0	0	0	0	0
3	6/19	3	445	6.000	2.5	0.42	7	0	0	7	0	0	0	0
3	6/19	3	446	6.000	2.5	0.42	3	1	0	2	0	0	0	0
3	6/19	3	453	5.125	2.5	0.42	5	0	0	5	0	0	0	0
3	6/19	3	454	5.125	2.5	0.42	1	0	0	1	0	0	0	0
3	6/20	1	461	5.125	2.5	0.42	0	0	0	0	0	0	0	0
3	6/20	1	462	5.125	2.5	0.42	2	1	1	0	0	0	0	0
3	6/20	1	469	6.000	2.5	0.42	4	1	0	3	0	0	0	0
3	6/20	1	470	6.000	2.5	0.42	1	0	0	1	0	0	0	0
3	6/20	1	477	8.125	2.5	0.42	0	0	0	0	0	0	0	0
3	6/20	1	478	8.125	2.5	0.42	0	0	0	0	0	0	0	0
3	6/20	2	485	8.125	2.5	0.42	0	0	0	0	0	0	0	0
3	6/20	2	486	8.125	2.5	0.42	1	1	0	0	0	0	0	0
3	6/20	2	493	6.000	2.5	0.42	3	1	1	1	0	0	0	0
3	6/20	2	494	6.000	2.5	0.42	0	0	0	0	0	0	0	0
3	6/20	2	501	5.125	2.5	0.42	1	1	0	0	0	0	0	0
3	6/20	2	502	5.125	2.5	0.42	0	0	0	0	0	0	0	0
3	6/20	3	509	5.125	2.5	0.42	0	0	0	0	0	0	0	0
3	6/20	3	510	5.125	2.5	0.42	4	0	0	4	0	0	0	0
3	6/20	3	517	6.000	2.5	0.42	4	0	1	3	0	0	0	0
3	6/20	3	518	6.000	2.5	0.42	0	0	0	0	0	0	0	0
3	6/20	3	525	8.125	2.5	0.42	0	0	0	0	0	0	0	0
3	6/20	3	526	8.125	2.5	0.42	1	0	0	1	0	0	0	0
3	6/21	1	533	8.125	2.5	0.42	0	0	0	0	0	0	0	0
3	6/21	1	534	8.125	2.5	0.42	0	0	0	0	0	0	0	0
3	6/21	1	541	6.000	2.5	0.42	1	0	0	1	0	0	0	0
3	6/21	1	542	6.000	3.0	0.50	1	0	0	1	0	0	0	0

Appendix D.1. Drift gillnet catch by range, date, session, drift number, mesh, and species, Nushgak River sonar project, 2000.

Range[a]	Date	Session[b]	Drift Number	Mesh (in)	Fishing Time (min)	Fathom Hours	Catch							
							Total	Chinook	Sockeye	Chum	Pink	Coho	White	Other[c]
3	6/21	1	549	5.125	2.5	0.42	0	0	0	0	0	0	0	0
3	6/21	1	550	5.125	2.5	0.42	0	0	0	0	0	0	0	0
3	6/21	2	557	5.125	2.5	0.42	1	0	0	1	0	0	0	0
3	6/21	2	558	5.125	2.5	0.42	0	0	0	0	0	0	0	0
3	6/21	2	565	6.000	2.5	0.42	2	0	0	2	0	0	0	0
3	6/21	2	566	6.000	2.5	0.42	0	0	0	0	0	0	0	0
3	6/21	2	573	8.125	2.5	0.42	0	0	0	0	0	0	0	0
3	6/21	2	574	8.125	2.5	0.42	3	1	0	2	0	0	0	0
3	6/21	3	581	8.125	2.5	0.42	0	0	0	0	0	0	0	0
3	6/21	3	582	8.125	2.5	0.42	2	0	0	2	0	0	0	0
3	6/21	3	589	6.000	2.5	0.42	1	0	0	1	0	0	0	0
3	6/21	3	590	6.000	2.5	0.42	0	0	0	0	0	0	0	0
3	6/21	3	597	5.125	2.5	0.42	0	0	0	0	0	0	0	0
3	6/21	3	598	5.125	2.5	0.42	1	0	0	1	0	0	0	0
3	6/22	1	605	5.125	162.0	27.00	0	0	0	0	0	0	0	0
3	6/22	1	606	5.125	150.0	25.00	0	0	0	0	0	0	0	0
3	6/22	1	613	6.000	150.0	25.00	0	0	0	0	0	0	0	0
3	6/22	1	614	6.000	150.0	25.00	8	0	1	7	0	0	0	0
3	6/22	1	621	8.125	150.0	25.00	0	0	0	0	0	0	0	0
3	6/22	1	622	8.125	150.0	25.00	0	0	0	0	0	0	0	0
3	6/22	2	629	8.125	2.5	0.42	0	0	0	0	0	0	0	0
3	6/22	2	630	8.125	2.5	0.42	0	0	0	0	0	0	0	0
3	6/22	2	637	6.000	2.5	0.42	1	1	0	0	0	0	0	0
3	6/22	2	638	6.000	2.5	0.42	1	0	0	1	0	0	0	0
3	6/22	2	645	5.125	2.5	0.42	2	0	0	2	0	0	0	0
3	6/22	2	646	5.125	2.5	0.42	0	0	0	0	0	0	0	0
3	6/22	3	653	5.125	2.6	0.43	1	1	0	0	0	0	0	0
3	6/22	3	654	5.125	2.5	0.42	0	0	0	0	0	0	0	0
3	6/22	3	661	6.000	2.5	0.42	2	0	1	1	0	0	0	0
3	6/22	3	662	6.000	2.5	0.42	0	0	0	0	0	0	0	0
3	6/22	3	669	8.125	2.5	0.42	0	0	0	0	0	0	0	0
3	6/22	3	670	8.125	2.5	0.42	0	0	0	0	0	0	0	0
3	6/23	1	677	5.125	2.5	0.42	1	0	1	0	0	0	0	0
3	6/23	1	678	5.125	2.5	0.42	0	0	0	0	0	0	0	0
3	6/23	1	685	6.000	2.5	0.42	3	0	0	3	0	0	0	0
3	6/23	1	686	6.000	2.5	0.42	0	0	0	0	0	0	0	0
3	6/23	1	693	8.125	2.5	0.42	0	0	0	0	0	0	0	0
3	6/23	1	694	8.125	2.5	0.42	0	0	0	0	0	0	0	0
3	6/23	2	701	8.125	2.5	0.42	0	0	0	0	0	0	0	0
3	6/23	2	702	8.125	2.5	0.42	0	0	0	0	0	0	0	0
3	6/23	2	709	6.000	2.6	0.43	0	0	0	0	0	0	0	0
3	6/23	2	710	6.000	2.6	0.43	0	0	0	0	0	0	0	0
3	6/23	2	717	5.125	2.5	0.42	2	0	0	2	0	0	0	0
3	6/23	2	718	5.125	2.5	0.42	0	0	0	0	0	0	0	0
3	6/24	1	749	8.125	2.5	0.42	0	0	0	0	0	0	0	0
3	6/24	1	750	8.125	2.5	0.42	0	0	0	0	0	0	0	0
3	6/24	1	757	6.000	2.5	0.42	0	0	0	0	0	0	0	0
3	6/24	1	758	6.000	2.5	0.42	0	0	0	0	0	0	0	0
3	6/24	1	765	5.125	2.5	0.42	0	0	0	0	0	0	0	0
3	6/24	1	766	5.125	2.5	0.42	1	0	1	0	0	0	0	0
3	6/24	2	773	5.125	2.8	0.46	0	0	0	0	0	0	0	0
3	6/24	2	774	5.125	2.5	0.42	0	0	0	0	0	0	0	0
3	6/24	2	781	6.000	2.0	0.33	0	0	0	0	0	0	0	0
3	6/24	2	782	6.000	2.5	0.42	0	0	0	0	0	0	0	0
3	6/24	2	789	8.125	2.5	0.42	0	0	0	0	0	0	0	0

Appendix D.1. Drift gillnet catch by range, date, session, drift number, mesh, and species, Nushgak River sonar project, 2000.

Range[a]	Date	Session[b]	Drift Number	Mesh (in)	Fishing Time (min)	Fathom Hours	Catch							
							Total	Chinook	Sockeye	Chum	Pink	Coho	White	Other[c]
3	6/24	2	790	8.125	2.5	0.42	0	0	0	0	0	0	0	0
3	6/25	1	821	5.125	2.5	0.42	0	0	0	0	0	0	0	0
3	6/25	1	822	5.125	2.5	0.42	0	0	0	0	0	0	0	0
3	6/25	1	829	6.000	2.5	0.42	4	1	0	3	0	0	0	0
3	6/25	1	830	6.000	2.5	0.42	0	0	0	0	0	0	0	0
3	6/25	1	837	8.125	2.5	0.42	6	3	0	3	0	0	0	0
3	6/25	1	838	8.125	2.5	0.42	0	0	0	0	0	0	0	0
3	6/25	2	845	8.125	2.5	0.42	0	0	0	0	0	0	0	0
3	6/25	2	846	8.125	2.5	0.42	0	0	0	0	0	0	0	0
3	6/25	2	853	6.000	2.5	0.42	4	0	0	4	0	0	0	0
3	6/25	2	854	6.000	2.6	0.44	1	0	0	1	0	0	0	0
3	6/25	2	861	5.125	2.5	0.42	2	0	1	1	0	0	0	0
3	6/25	2	862	5.125	2.5	0.42	5	1	1	3	0	0	0	0
3	6/25	3	869	5.125	2.5	0.42	4	2	0	2	0	0	0	0
3	6/25	3	870	5.125	2.5	0.42	6	1	0	5	0	0	0	0
3	6/25	3	876	6.000	2.6	0.43	1	1	0	0	0	0	0	0
3	6/25	3	877	6.000	2.1	0.35	10	1	1	8	0	0	0	0
3	6/25	3	878	6.000	2.0	0.33	7	0	0	7	0	0	0	0
3	6/25	3	885	8.125	2.5	0.42	2	1	0	1	0	0	0	0
3	6/25	3	886	8.125	2.5	0.42	1	0	0	1	0	0	0	0
3	6/26	1	893	8.125	2.5	0.42	1	0	0	1	0	0	0	0
3	6/26	1	894	8.125	2.5	0.42	0	0	0	0	0	0	0	0
3	6/26	1	901	6.000	2.5	0.42	4	0	0	4	0	0	0	0
3	6/26	1	902	6.000	2.5	0.42	8	0	0	8	0	0	0	0
3	6/26	1	909	5.125	2.5	0.42	5	0	1	4	0	0	0	0
3	6/26	1	910	5.125	2.5	0.42	2	0	0	2	0	0	0	0
3	6/26	2	917	5.125	2.0	0.33	6	2	0	4	0	0	0	0
3	6/26	2	918	5.125	2.5	0.42	1	0	0	1	0	0	0	0
3	6/26	2	925	6.000	2.5	0.42	4	1	0	3	0	0	0	0
3	6/26	2	926	6.000	2.5	0.42	1	0	0	1	0	0	0	0
3	6/26	5	926	6.000	2.5	0.42	1	0	0	1	0	0	0	0
3	6/26	5	933	8.125	2.0	0.33	1	0	0	1	0	0	0	0
3	6/26	5	934	8.125	2.5	0.42	0	0	0	0	0	0	0	0
3	6/26	3	941	8.125	2.5	0.42	1	0	0	1	0	0	0	0
3	6/26	3	942	8.125	2.5	0.42	1	0	0	1	0	0	0	0
3	6/26	3	949	6.000	2.5	0.42	4	2	0	2	0	0	0	0
3	6/26	3	950	6.000	2.5	0.42	0	0	0	0	0	0	0	0
3	6/26	3	957	5.125	2.5	0.42	5	0	5	0	0	0	0	0
3	6/26	3	958	5.125	2.5	0.42	0	0	0	0	0	0	0	0
3	6/27	1	965	6.000	2.0	0.34	5	0	5	0	0	0	0	0
3	6/27	1	966	6.000	2.5	0.42	1	0	1	0	0	0	0	0
3	6/27	1	973	5.125	2.0	0.33	5	0	5	0	0	0	0	0
3	6/27	1	974	5.125	2.0	0.33	5	0	5	0	0	0	0	0
3	6/27	1	981	8.125	2.0	0.33	6	0	5	1	0	0	0	0
3	6/27	1	982	8.125	2.5	0.42	0	0	0	0	0	0	0	0
3	6/27	2	989	8.125	2.6	0.43	1	0	1	0	0	0	0	0
3	6/27	2	990	8.125	2.6	0.43	2	0	2	0	0	0	0	0
3	6/27	2	997	6.000	2.0	0.33	9	0	6	3	0	0	0	0
3	6/27	2	998	6.000	2.5	0.42	2	0	2	0	0	0	0	0
3	6/27	2	1,005	5.125	2.8	0.47	1	0	1	0	0	0	0	0
3	6/27	2	1,006	5.125	2.5	0.42	4	0	3	1	0	0	0	0
3	6/27	3	1,013	5.125	2.5	0.42	3	0	0	3	0	0	0	0
3	6/27	3	1,014	5.125	2.5	0.42	6	0	4	2	0	0	0	0
3	6/27	3	1,021	6.000	2.5	0.42	1	0	1	0	0	0	0	0
3	6/27	3	1,022	6.000	2.5	0.42	2	0	0	2	0	0	0	0

Appendix D.1. Drift gillnet catch by range, date, session, drift number, mesh, and species, Nushgak River sonar project, 2000.

Range[a]	Date	Session[b]	Drift Number	Mesh (in)	Fishing Time (min)	Fathom Hours	Catch							
							Total	Chinook	Sockeye	Chum	Pink	Coho	White	Other[c]
3	6/27	3	1,029	8.125	2.5	0.42	0	0	0	0	0	0	0	0
3	6/27	3	1,030	8.125	2.5	0.42	0	0	0	0	0	0	0	0
3	6/28	1	1,037	8.125	2.5	0.42	2	1	0	1	0	0	0	0
3	6/28	1	1,038	8.125	2.5	0.42	0	0	0	0	0	0	0	0
3	6/28	1	1,045	6.000	2.6	0.44	0	0	0	0	0	0	0	0
3	6/28	1	1,046	6.000	2.5	0.42	6	0	6	0	0	0	0	0
3	6/28	1	1,053	5.125	2.5	0.42	4	0	4	0	0	0	0	0
3	6/28	1	1,054	5.125	2.5	0.42	2	0	2	0	0	0	0	0
3	6/28	2	1,061	5.125	2.0	0.33	16	0	16	0	0	0	0	0
3	6/28	2	1,062	5.125	2.5	0.42	0	0	0	0	0	0	0	0
3	6/28	2	1,069	6.000	2.5	0.42	20	0	12	8	0	0	0	0
3	6/28	2	1,070	6.000	2.5	0.42	14	0	10	4	0	0	0	0
3	6/29	1	1,107	5.125	2.5	0.42	7	0	7	0	0	0	0	0
3	6/29	1	1,108	5.125	2.5	0.42	0	0	0	0	0	0	0	0
3	6/29	1	1,115	6.000	2.5	0.42	6	0	6	0	0	0	0	0
3	6/29	1	1,116	6.000	2.5	0.42	0	0	0	0	0	0	0	0
3	6/29	1	1,123	8.125	2.0	0.33	5	0	4	1	0	0	0	0
3	6/29	1	1,124	8.125	2.0	0.33	5	0	4	1	0	0	0	0
3	6/29	2	1,131	8.125	2.5	0.42	2	0	2	0	0	0	0	0
3	6/29	2	1,132	8.125	2.5	0.42	1	0	1	0	0	0	0	0
3	6/29	2	1,139	6.000	2.0	0.33	9	0	9	0	0	0	0	0
3	6/29	2	1,140	6.000	2.5	0.42	5	0	3	2	0	0	0	0
3	6/29	2	1,147	5.125	2.4	0.40	3	0	1	2	0	0	0	0
3	6/29	2	1,148	5.125	2.2	0.36	6	0	6	0	0	0	0	0
3	6/29	3	1,155	5.125	2.5	0.42	9	0	7	2	0	0	0	0
3	6/29	3	1,156	5.125	2.5	0.42	7	0	6	1	0	0	0	0
3	6/29	3	1,163	6.000	2.5	0.42	7	0	6	1	0	0	0	0
3	6/29	3	1,164	6.000	2.5	0.42	4	0	3	1	0	0	0	0
3	6/29	3	1,171	8.125	2.5	0.42	3	0	3	0	0	0	0	0
3	6/29	3	1,172	8.125	2.5	0.42	3	0	2	1	0	0	0	0
3	6/30	1	1,179	8.125	2.5	0.42	3	0	3	0	0	0	0	0
3	6/30	1	1,180	8.125	2.5	0.42	0	0	0	0	0	0	0	0
3	6/30	1	1,187	5.125	2.5	0.42	3	1	2	0	0	0	0	0
3	6/30	1	1,188	5.125	2.0	0.33	6	0	5	1	0	0	0	0
3	6/30	1	1,195	6.000	2.5	0.42	9	1	4	4	0	0	0	0
3	6/30	1	1,196	6.000	2.0	0.33	3	0	2	1	0	0	0	0
3	6/30	2	1,203	6.000	2.5	0.42	0	0	0	0	0	0	0	0
3	6/30	2	1,204	6.000	2.5	0.42	0	0	0	0	0	0	0	0
3	6/30	2	1,211	5.125	2.5	0.42	4	0	2	2	0	0	0	0
3	6/30	2	1,212	5.125	2.5	0.42	3	0	2	1	0	0	0	0
3	6/30	2	1,219	8.125	2.5	0.42	5	0	3	1	0	0	0	1
3	6/30	2	1,220	8.125	2.5	0.42	1	0	1	0	0	0	0	0
3	7/01	1	1,245	6.000	2.5	0.42	2	0	2	0	0	0	0	0
3	7/01	1	1,246	6.000	2.5	0.42	0	0	0	0	0	0	0	0
3	7/01	1	1,253	5.125	2.5	0.42	6	0	4	2	0	0	0	0
3	7/01	1	1,254	5.125	2.5	0.42	2	0	2	0	0	0	0	0
3	7/01	1	1,261	8.125	2.5	0.42	1	0	0	1	0	0	0	0
3	7/01	1	1,262	8.125	2.5	0.42	1	0	1	0	0	0	0	0
3	7/01	2	1,269	8.125	2.5	0.42	1	0	1	0	0	0	0	0
3	7/01	2	1,270	8.125	2.5	0.42	1	0	1	0	0	0	0	0
3	7/01	2	1,277	6.000	2.5	0.42	5	0	4	1	0	0	0	0
3	7/01	2	1,278	6.000	2.5	0.42	3	0	3	0	0	0	0	0
3	7/01	2	1,285	5.125	2.5	0.42	6	1	3	2	0	0	0	0
3	7/01	2	1,286	5.125	2.5	0.42	1	0	1	0	0	0	0	0
3	7/01	3	1,293	5.125	2.5	0.42	4	0	4	0	0	0	0	0

Appendix D.1. Drift gillnet catch by range, date, session, drift number, mesh, and species, Nushgak River sonar project, 2000.

Range[a]	Date	Session[b]	Drift Number	Mesh (in)	Fishing Time (min)	Fathom Hours	Catch							
							Total	Chinook	Sockeye	Chum	Pink	Coho	White	Other[c]
3	7/01	3	1,294	5.125	2.5	0.42	1	0	1	0	0	0	0	0
3	7/01	3	1,301	6.000	2.5	0.42	3	0	3	0	0	0	0	0
3	7/01	3	1,302	6.000	2.5	0.42	2	0	2	0	0	0	0	0
3	7/01	3	1,309	8.125	2.0	0.33	3	0	1	2	0	0	0	0
3	7/01	3	1,310	8.125	2.5	0.42	0	0	0	0	0	0	0	0
3	7/02	1	1,317	8.125	2.5	0.42	0	0	0	0	0	0	0	0
3	7/02	1	1,318	8.125	2.8	0.46	0	0	0	0	0	0	0	0
3	7/02	1	1,325	5.125	2.5	0.42	4	0	4	0	0	0	0	0
3	7/02	1	1,326	5.125	2.5	0.42	1	0	0	0	0	0	1	0
3	7/02	2	1,331	6.000	2.5	0.42	4	0	4	0	0	0	0	0
3	7/02	2	1,332	6.000	2.5	0.42	0	0	0	0	0	0	0	0
3	7/02	1	1,333	6.000	2.5	0.42	2	0	1	1	0	0	0	0
3	7/02	1	1,334	6.000	2.5	0.42	2	0	2	0	0	0	0	0
3	7/02	2	1,339	5.125	2.5	0.42	0	0	0	0	0	0	0	0
3	7/02	2	1,340	5.125	2.5	0.42	1	0	1	0	0	0	0	0
3	7/02	2	1,347	8.125	2.5	0.42	1	0	0	1	0	0	0	0
3	7/02	2	1,348	8.125	2.5	0.42	0	0	0	0	0	0	0	0
3	7/02	3	1,355	8.125	2.5	0.42	0	0	0	0	0	0	0	0
3	7/02	3	1,356	8.125	2.5	0.42	0	0	0	0	0	0	0	0
3	7/02	3	1,363	5.125	2.5	0.42	4	0	4	0	0	0	0	0
3	7/02	3	1,364	5.125	2.5	0.42	0	0	0	0	0	0	0	0
3	7/02	3	1,371	6.000	2.5	0.42	4	0	4	0	0	0	0	0
3	7/02	3	1,372	6.000	2.5	0.42	1	0	1	0	0	0	0	0
3	7/03	1	1,379	6.000	2.5	0.42	1	0	1	0	0	0	0	0
3	7/03	1	1,380	6.000	2.5	0.42	1	0	1	0	0	0	0	0
3	7/03	1	1,387	5.125	2.8	0.47	2	0	2	0	0	0	0	0
3	7/03	1	1,388	5.125	2.5	0.42	3	0	3	0	0	0	0	0
3	7/03	1	1,395	8.125	2.5	0.42	0	0	0	0	0	0	0	0
3	7/03	1	1,396	8.125	2.5	0.42	0	0	0	0	0	0	0	0
3	7/03	2	1,403	8.125	2.5	0.42	0	0	0	0	0	0	0	0
3	7/03	2	1,404	8.125	2.5	0.42	0	0	0	0	0	0	0	0
3	7/03	2	1,411	5.125	2.5	0.42	2	1	1	0	0	0	0	0
3	7/03	2	1,412	5.125	2.5	0.42	0	0	0	0	0	0	0	0
3	7/03	2	1,419	6.000	2.0	0.33	4	0	3	1	0	0	0	0
3	7/03	2	1,420	6.000	2.5	0.42	2	0	2	0	0	0	0	0
3	7/03	3	1,427	6.000	2.5	0.42	6	0	6	0	0	0	0	0
3	7/03	3	1,428	6.000	2.5	0.42	0	0	0	0	0	0	0	0
3	7/03	3	1,435	5.125	2.5	0.42	3	0	3	0	0	0	0	0
3	7/03	3	1,436	5.125	2.5	0.42	5	0	5	0	0	0	0	0
3	7/03	3	1,443	8.125	2.5	0.42	5	0	5	0	0	0	0	0
3	7/04	1	1,351	8.125	2.5	0.42	1	0	1	0	0	0	0	0
3	7/04	1	1,352	8.125	2.5	0.42	0	0	0	0	0	0	0	0
3	7/04	1	1,359	5.125	2.5	0.42	2	0	2	0	0	0	0	0
3	7/04	1	1,360	5.125	2.5	0.42	0	0	0	0	0	0	0	0
3	7/04	1	1,367	6.000	2.0	0.33	7	0	7	0	0	0	0	0
3	7/04	1	1,368	6.000	2.5	0.42	3	0	3	0	0	0	0	0
3	7/04	2	1,475	6.000	2.5	0.42	8	0	7	1	0	0	0	0
3	7/04	2	1,476	6.000	2.5	0.42	1	0	1	0	0	0	0	0
3	7/04	2	1,483	5.125	2.5	0.42	6	0	4	2	0	0	0	0
3	7/04	2	1,484	5.125	2.5	0.42	0	0	0	0	0	0	0	0
3	7/04	2	1,491	8.125	2.5	0.42	2	1	1	0	0	0	0	0
3	7/04	2	1,492	8.125	2.5	0.42	0	0	0	0	0	0	0	0
3	7/04	3	1,499	8.125	2.5	0.42	3	0	1	2	0	0	0	0
3	7/04	3	1,500	8.125	2.6	0.43	1	0	0	1	0	0	0	0
3	7/04	3	1,507	5.125	2.5	0.42	2	0	2	0	0	0	0	0

Appendix D.1. Drift gillnet catch by range, date, session, drift number, mesh, and species, Nushgak River sonar project, 2000.

Range[a]	Date	Session[b]	Drift Number	Mesh (in)	Fishing Time (min)	Fathom Hours	Catch							
							Total	Chinook	Sockeye	Chum	Pink	Coho	White	Other[c]
3	7/04	3	1,508	5.125	2.5	0.42	0	0	0	0	0	0	0	0
3	7/04	3	1,515	6.000	2.5	0.42	5	0	2	3	0	0	0	0
3	7/04	3	1,516	6.000	2.5	0.42	1	0	1	0	0	0	0	0
3	7/05	1	1,523	6.000	2.5	0.42	0	0	0	0	0	0	0	0
3	7/05	1	1,524	6.000	2.5	0.42	0	0	0	0	0	0	0	0
3	7/05	1	1,531	5.125	2.5	0.42	0	0	0	0	0	0	0	0
3	7/05	1	1,532	5.125	2.5	0.42	1	0	1	0	0	0	0	0
3	7/05	1	1,539	8.125	2.5	0.42	0	0	0	0	0	0	0	0
3	7/05	1	1,540	8.125	2.5	0.42	1	0	0	1	0	0	0	0
3	7/05	2	1,547	8.125	2.5	0.42	0	0	0	0	0	0	0	0
3	7/05	2	1,548	8.125	2.5	0.42	2	0	1	1	0	0	0	0
3	7/05	2	1,555	5.125	2.5	0.42	0	0	0	0	0	0	0	0
3	7/05	2	1,556	5.125	2.5	0.42	1	0	1	0	0	0	0	0
3	7/05	2	1,563	6.000	2.5	0.42	2	0	2	0	0	0	0	0
3	7/05	2	1,564	6.000	2.6	0.43	0	0	0	0	0	0	0	0
3	7/05	3	1,571	6.000	2.0	0.33	4	0	1	3	0	0	0	0
3	7/05	3	1,572	6.000	2.7	0.44	1	0	1	0	0	0	0	0
3	7/05	3	1,579	5.125	2.5	0.42	0	0	0	0	0	0	0	0
3	7/05	3	1,580	5.125	2.5	0.42	1	0	1	0	0	0	0	0
3	7/05	3	1,587	8.125	2.5	0.42	0	0	0	0	0	0	0	0
3	7/05	3	1,588	8.125	2.5	0.42	0	0	0	0	0	0	0	0
3	7/06	1	1,595	8.125	2.5	0.42	0	0	0	0	0	0	0	0
3	7/06	1	1,596	8.125	2.5	0.42	0	0	0	0	0	0	0	0
3	7/06	1	1,603	5.125	2.5	0.42	0	0	0	0	0	0	0	0
3	7/06	1	1,604	5.125	2.6	0.43	0	0	0	0	0	0	0	0
3	7/06	1	1,611	6.000	2.5	0.42	1	0	0	1	0	0	0	0
3	7/06	1	1,612	6.000	2.5	0.42	0	0	0	0	0	0	0	0
3	7/06	2	1,619	6.000	2.5	0.42	1	0	0	1	0	0	0	0
3	7/06	2	1,620	6.000	2.5	0.42	0	0	0	0	0	0	0	0
3	7/06	2	1,627	5.125	2.6	0.44	1	0	1	0	0	0	0	0
3	7/06	2	1,628	5.125	2.6	0.44	0	0	0	0	0	0	0	0
3	7/06	2	1,635	8.125	2.5	0.42	0	0	0	0	0	0	0	0
3	7/06	2	1,636	8.125	2.5	0.42	0	0	0	0	0	0	0	0
3	7/06	3	1,643	8.125	2.5	0.42	0	0	0	0	0	0	0	0
3	7/06	3	1,644	8.125	2.0	0.33	2	0	0	2	0	0	0	0
3	7/06	3	1,651	5.125	2.6	0.43	0	0	0	0	0	0	0	0
3	7/06	3	1,652	5.125	2.5	0.42	4	0	2	2	0	0	0	0
3	7/06	3	1,659	6.000	2.5	0.42	0	0	0	0	0	0	0	0
3	7/06	3	1,660	6.000	2.5	0.42	2	0	1	1	0	0	0	0
3	7/07	1	1,667	5.125	2.5	0.42	2	0	2	0	0	0	0	0
3	7/07	1	1,668	5.125	2.5	0.42	1	0	1	0	0	0	0	0
3	7/07	1	1,675	6.000	2.5	0.42	0	0	0	0	0	0	0	0
3	7/07	1	1,676	6.000	2.5	0.42	1	0	1	0	0	0	0	0
3	7/07	1	1,683	8.125	2.5	0.42	0	0	0	0	0	0	0	0
3	7/07	1	1,684	8.125	2.5	0.42	0	0	0	0	0	0	0	0
3	7/07	3	1,715	6.000	2.6	0.43	0	0	0	0	0	0	0	0
3	7/07	3	1,716	6.000	2.5	0.42	0	0	0	0	0	0	0	0
3	7/07	3	1,723	8.125	2.5	0.42	0	0	0	0	0	0	0	0
3	7/07	3	1,724	8.125	2.5	0.42	0	0	0	0	0	0	0	0
3	7/07	3	1,731	5.125	2.5	0.42	2	0	2	0	0	0	0	0
3	7/07	3	1,732	5.125	2.5	0.42	1	1	0	0	0	0	0	0
3	7/08	1	1,739	5.125	2.5	0.42	1	0	1	0	0	0	0	0
3	7/08	1	1,740	5.125	2.5	0.42	2	0	2	0	0	0	0	0
3	7/08	1	1,747	6.000	2.5	0.42	0	0	0	0	0	0	0	0
3	7/08	1	1,748	6.000	2.5	0.42	0	0	0	0	0	0	0	0

Appendix D.1. Drift gillnet catch by range, date, session, drift number, mesh, and species, Nushgak River sonar project, 2000.

Range[a]	Date	Session[b]	Drift Number	Mesh (in)	Fishing Time (min)	Fathom Hours	Catch							
							Total	Chinook	Sockeye	Chum	Pink	Coho	White	Other[c]
3	7/08	1	1,755	8.125	2.5	0.42	0	0	0	0	0	0	0	0
3	7/08	1	1,756	8.125	2.5	0.42	0	0	0	0	0	0	0	0
3	7/08	2	1,763	8.125	2.5	0.42	0	0	0	0	0	0	0	0
3	7/08	2	1,764	8.125	2.5	0.42	0	0	0	0	0	0	0	0
3	7/08	2	1,771	5.125	2.5	0.42	0	0	0	0	0	0	0	0
3	7/08	2	1,772	5.125	2.5	0.42	1	0	1	0	0	0	0	0
3	7/08	2	1,779	6.000	2.5	0.42	0	0	0	0	0	0	0	0
3	7/08	2	1,780	6.000	2.5	0.42	1	0	1	0	0	0	0	0
3	7/08	3	1,787	6.000	2.5	0.42	0	0	0	0	0	0	0	0
3	7/08	3	1,788	6.000	2.5	0.42	1	0	1	0	0	0	0	0
3	7/08	3	1,795	5.125	2.5	0.42	0	0	0	0	0	0	0	0
3	7/08	3	1,796	5.125	2.5	0.42	0	0	0	0	0	0	0	0
3	7/08	3	1,803	8.125	2.5	0.42	0	0	0	0	0	0	0	0
3	7/08	3	1,804	8.125	2.5	0.42	1	0	1	0	0	0	0	0
3	7/09	1	1,811	8.125	2.5	0.41	1	0	1	0	0	0	0	0
3	7/09	1	1,812	8.125	2.5	0.42	0	0	0	0	0	0	0	0
3	7/09	1	1,819	6.000	2.5	0.42	2	0	1	0	0	0	0	1
3	7/09	1	1,820	6.000	2.5	0.42	1	0	1	0	0	0	0	0
3	7/09	1	1,827	5.125	2.5	0.42	1	1	0	0	0	0	0	0
3	7/09	1	1,828	5.125	2.5	0.42	5	0	4	1	0	0	0	0
3	7/09	2	1,835	5.125	2.5	0.42	0	0	0	0	0	0	0	0
3	7/09	2	1,836	5.125	2.5	0.42	0	0	0	0	0	0	0	0
3	7/09	2	1,843	8.125	2.6	0.43	0	0	0	0	0	0	0	0
3	7/09	2	1,844	8.125	2.5	0.42	0	0	0	0	0	0	0	0
3	7/09	2	1,851	6.000	2.5	0.42	1	0	0	1	0	0	0	0
3	7/09	2	1,852	6.000	2.5	0.42	0	0	0	0	0	0	0	0
3	7/09	3	1,859	6.000	2.5	0.42	0	0	0	0	0	0	0	0
3	7/09	3	1,860	6.000	2.5	0.42	1	0	1	0	0	0	0	0
3	7/09	3	1,867	5.125	2.5	0.42	0	0	0	0	0	0	0	0
3	7/09	3	1,868	5.125	2.5	0.42	0	0	0	0	0	0	0	0
3	7/09	3	1,875	8.125	2.5	0.42	0	0	0	0	0	0	0	0
3	7/09	3	1,876	8.125	2.5	0.42	0	0	0	0	0	0	0	0
3	7/10	1	1,883	8.125	2.6	0.43	5	0	5	0	0	0	0	0
3	7/10	1	1,884	8.125	2.5	0.42	0	0	0	0	0	0	0	0
3	7/10	1	1,891	5.125	2.5	0.42	1	0	1	0	0	0	0	0
3	7/10	1	1,892	5.125	2.5	0.42	5	0	5	0	0	0	0	0
3	7/10	1	1,899	6.000	2.5	0.42	0	0	0	0	0	0	0	0
3	7/10	1	1,900	6.000	2.5	0.42	4	0	4	0	0	0	0	0
3	7/10	2	1,907	6.000	2.5	0.42	3	0	3	0	0	0	0	0
3	7/10	2	1,908	6.000	2.5	0.42	0	0	0	0	0	0	0	0
3	7/10	2	1,915	5.125	2.5	0.42	3	0	3	0	0	0	0	0
3	7/10	2	1,916	5.125	2.5	0.42	0	0	0	0	0	0	0	0
3	7/10	2	1,923	8.125	2.5	0.42	0	0	0	0	0	0	0	0
3	7/10	2	1,924	8.125	2.5	0.42	0	0	0	0	0	0	0	0
3	7/10	3	1,931	8.125	2.5	0.42	5	0	5	0	0	0	0	0
3	7/10	3	1,932	8.125	2.5	0.42	0	0	0	0	0	0	0	0
3	7/10	3	1,939	5.125	2.5	0.42	3	0	3	0	0	0	0	0
3	7/10	3	1,940	5.125	2.5	0.42	0	0	0	0	0	0	0	0
3	7/10	3	1,947	6.000	2.5	0.42	0	0	0	0	0	0	0	0
3	7/10	3	1,948	6.000	2.5	0.42	5	0	5	0	0	0	0	0
3	7/11	1	1,955	5.125	2.5	0.42	0	0	0	0	0	0	0	0
3	7/11	1	1,956	5.125	2.5	0.42	0	0	0	0	0	0	0	0
3	7/11	1	1,963	6.000	2.5	0.42	0	0	0	0	0	0	0	0
3	7/11	1	1,964	6.000	2.5	0.42	3	0	3	0	0	0	0	0
3	7/11	1	1,971	8.125	2.5	0.42	0	0	0	0	0	0	0	0

Appendix D.1. Drift gillnet catch by range, date, session, drift number, mesh, and species, Nushgak River sonar project, 2000.

Range[a]	Date	Session[b]	Drift Number	Mesh (in)	Fishing Time (min)	Fathom Hours	Catch							
							Total	Chinook	Sockeye	Chum	Pink	Coho	White	Other[c]
3	7/11	1	1,972	8.125	2.5	0.42	2	0	2	0	0	0	0	0
3	7/11	2	1,979	8.125	2.5	0.42	0	0	0	0	0	0	0	0
3	7/11	2	1,980	8.125	2.5	0.42	0	0	0	0	0	0	0	0
3	7/11	2	1,987	5.125	2.5	0.42	1	0	1	0	0	0	0	0
3	7/11	2	1,988	5.125	2.5	0.42	0	0	0	0	0	0	0	0
3	7/11	2	1,995	6.000	2.5	0.42	0	0	0	0	0	0	0	0
3	7/11	2	1,996	6.000	2.5	0.42	3	0	3	0	0	0	0	0
3	7/12	1	2,027	8.125	2.5	0.42	0	0	0	0	0	0	0	0
3	7/12	1	2,028	8.125	2.5	0.42	0	0	0	0	0	0	0	0
3	7/12	1	2,035	5.125	2.5	0.42	5	0	5	0	0	0	0	0
3	7/12	1	2,036	5.125	2.5	0.42	1	0	1	0	0	0	0	0
3	7/12	1	2,043	6.000	2.5	0.42	0	0	0	0	0	0	0	0
3	7/12	1	2,044	6.000	2.5	0.42	2	0	2	0	0	0	0	0
3	7/12	2	2,051	6.000	2.5	0.42	0	0	0	0	0	0	0	0
3	7/12	2	2,052	6.000	2.5	0.42	2	2	0	0	0	0	0	0
3	7/12	2	2,059	5.125	2.5	0.42	2	0	2	0	0	0	0	0
3	7/12	2	2,060	5.125	2.5	0.42	0	0	0	0	0	0	0	0
3	7/12	2	2,067	8.125	2.5	0.42	0	0	0	0	0	0	0	0
3	7/12	2	2,068	8.125	2.5	0.42	0	0	0	0	0	0	0	0
3	7/12	3	2,075	8.125	2.5	0.42	5	0	5	0	0	0	0	0
3	7/12	3	2,076	8.125	2.5	0.42	0	0	0	0	0	0	0	0
3	7/12	3	2,083	5.125	2.5	0.42	8	0	8	0	0	0	0	0
3	7/12	3	2,084	5.125	2.5	0.42	1	0	1	0	0	0	0	0
3	7/12	3	2,091	6.000	2.6	0.43	6	0	5	1	0	0	0	0
3	7/12	3	2,092	6.000	2.6	0.43	0	0	0	0	0	0	0	0
3	7/13	1	2,099	5.125	1.5	0.25	7	0	7	0	0	0	0	0
3	7/13	1	2,100	5.125	2.5	0.42	3	0	3	0	0	0	0	0
3	7/13	1	2,107	6.000	2.5	0.42	4	0	4	0	0	0	0	0
3	7/13	1	2,108	6.000	2.5	0.42	4	0	4	0	0	0	0	0
3	7/13	1	2,116	8.125	2.5	0.42	0	0	0	0	0	0	0	0
3	7/13	2	2,123	8.125	2.5	0.42	1	0	1	0	0	0	0	0
3	7/13	2	2,124	8.125	2.5	0.42	3	0	3	0	0	0	0	0
3	7/13	2	2,131	5.125	2.3	0.38	12	0	11	1	0	0	0	0
3	7/13	2	2,132	5.125	2.5	0.42	1	0	1	0	0	0	0	0
3	7/14	1	2,163	8.125	2.0	0.33	1	0	1	0	0	0	0	0
3	7/14	1	2,164	8.125	2.0	0.33	2	0	2	0	0	0	0	0
3	7/14	1	2,171	5.125	1.5	0.25	4	0	4	0	0	0	0	0
3	7/14	1	2,172	5.125	2.5	0.42	1	0	1	0	0	0	0	0
3	7/14	1	2,179	6.000	2.5	0.42	1	0	1	0	0	0	0	0
3	7/14	1	2,180	6.000	2.5	0.42	2	0	2	0	0	0	0	0
3	7/14	2	2,187	6.000	2.5	0.42	2	0	2	0	0	0	0	0
3	7/14	2	2,188	6.000	2.5	0.42	1	0	1	0	0	0	0	0
3	7/14	2	2,195	5.125	2.5	0.42	6	0	5	0	0	0	0	1
3	7/14	2	2,196	5.125	2.5	0.42	6	0	6	0	0	0	0	0
3	7/14	2	2,203	8.125	2.6	0.44	0	0	0	0	0	0	0	0
3	7/14	2	2,204	8.125	2.5	0.42	1	0	1	0	0	0	0	0
3	7/14	3	2,211	8.125	2.5	0.42	1	0	1	0	0	0	0	0
3	7/14	3	2,212	8.125	2.5	0.42	0	0	0	0	0	0	0	0
3	7/14	3	2,219	5.125	2.5	0.42	3	0	3	0	0	0	0	0
3	7/14	3	2,220	5.125	2.5	0.42	0	0	0	0	0	0	0	0
3	7/14	3	2,227	6.000	2.5	0.42	1	0	1	0	0	0	0	0
3	7/14	3	2,228	6.000	2.5	0.42	1	0	1	0	0	0	0	0
3	7/15	1	2,235	5.125	2.5	0.42	5	0	5	0	0	0	0	0
3	7/15	1	2,236	5.125	2.5	0.42	0	0	0	0	0	0	0	0
3	7/15	1	2,243	6.000	2.5	0.42	1	0	1	0	0	0	0	0

Appendix D.1. Drift gillnet catch by range, date, session, drift number, mesh, and species, Nushgak River sonar project, 2000.

Range[a]	Date	Session[b]	Drift Number	Mesh (in)	Fishing Time (min)	Fathom Hours	Catch							
							Total	Chinook	Sockeye	Chum	Pink	Coho	White	Other[c]
3	7/15	1	2,244	6.000	2.6	0.43	0	0	0	0	0	0	0	0
3	7/15	1	2,245	6.000	2.5	0.42	1	0	0	1	0	0	0	0
3	7/15	1	2,251	8.125	2.5	0.42	0	0	0	0	0	0	0	0
3	7/15	1	2,252	8.125	2.5	0.42	0	0	0	0	0	0	0	0
3	7/15	3	2,259	8.125	2.5	0.42	0	0	0	0	0	0	0	0
3	7/15	3	2,260	8.125	2.5	0.42	0	0	0	0	0	0	0	0
3	7/15	3	2,267	6.000	2.5	0.42	3	0	3	0	0	0	0	0
3	7/15	3	2,268	6.000	2.5	0.42	0	0	0	0	0	0	0	0
3	7/15	3	2,275	5.125	2.0	0.33	3	0	3	0	0	0	0	0
3	7/15	3	2,276	5.125	2.5	0.42	0	0	0	0	0	0	0	0
3	7/16	1	2,283	5.125	2.5	0.42	2	1	1	0	0	0	0	0
3	7/16	1	2,284	5.125	2.5	0.42	1	0	1	0	0	0	0	0
3	7/16	1	2,291	6.000	2.5	0.42	1	0	1	0	0	0	0	0
3	7/16	1	2,292	6.000	2.5	0.42	0	0	0	0	0	0	0	0
3	7/16	1	2,299	8.125	2.5	0.42	1	0	1	0	0	0	0	0
3	7/16	1	2,300	8.125	2.5	0.42	0	0	0	0	0	0	0	0
3	7/16	3	2,307	8.125	2.5	0.42	1	0	1	0	0	0	0	0
3	7/16	3	2,308	8.125	2.5	0.42	1	1	0	0	0	0	0	0
3	7/16	3	2,315	5.125	2.5	0.42	2	0	0	1	0	1	0	0
3	7/16	3	2,316	5.125	2.5	0.42	0	0	0	0	0	0	0	0
3	7/16	3	2,323	6.000	2.5	0.42	1	0	1	0	0	0	0	0
3	7/16	3	2,324	6.000	2.5	0.42	0	0	0	0	0	0	0	0
3	7/17	1	2,331	6.000	2.5	0.42	0	0	0	0	0	0	0	0
3	7/17	1	2,332	6.000	2.5	0.42	0	0	0	0	0	0	0	0
3	7/17	1	2,339	5.125	2.5	0.42	1	0	1	0	0	0	0	0
3	7/17	1	2,340	5.125	2.5	0.42	0	0	0	0	0	0	0	0
3	7/17	1	2,347	8.125	2.5	0.42	1	0	1	0	0	0	0	0
3	7/17	1	2,348	8.125	2.5	0.42	0	0	0	0	0	0	0	0
3	7/17	3	2,355	8.125	2.5	0.42	0	0	0	0	0	0	0	0
3	7/17	3	2,356	8.125	2.3	0.39	0	0	0	0	0	0	0	0
3	7/17	3	2,363	5.125	2.5	0.42	1	0	1	0	0	0	0	0
3	7/17	3	2,364	5.125	2.5	0.42	0	0	0	0	0	0	0	0
3	7/17	3	2,371	6.000	2.5	0.42	1	0	1	0	0	0	0	0
3	7/17	3	2,372	6.000	2.5	0.42	1	0	1	0	0	0	0	0
3	7/18	1	2,379	6.000	2.0	0.33	7	0	2	4	0	1	0	0
3	7/18	1	2,380	6.000	2.5	0.42	0	0	0	0	0	0	0	0
3	7/18	1	2,387	5.125	2.5	0.42	0	0	0	0	0	0	0	0
3	7/18	1	2,388	5.125	2.5	0.42	1	0	1	0	0	0	0	0
3	7/18	1	2,395	8.125	2.5	0.42	0	0	0	0	0	0	0	0
3	7/18	1	2,396	8.125	2.5	0.42	0	0	0	0	0	0	0	0
3	7/18	3	2,403	8.125	2.5	0.42	2	0	1	0	0	1	0	0
3	7/18	3	2,404	8.125	2.5	0.42	0	0	0	0	0	0	0	0
3	7/18	3	2,411	6.000	2.5	0.42	0	0	0	0	0	0	0	0
3	7/18	3	2,412	6.000	2.5	0.42	1	0	1	0	0	0	0	0
3	7/18	3	2,419	5.125	2.5	0.42	4	0	3	1	0	0	0	0
3	7/18	3	2,420	5.125	2.5	0.42	3	1	2	0	0	0	0	0
3	7/19	1	2,427	5.125	2.5	0.42	2	0	1	1	0	0	0	0
3	7/19	1	2,428	5.125	2.5	0.42	0	0	0	0	0	0	0	0
3	7/19	1	2,435	6.000	2.5	0.42	1	0	1	0	0	0	0	0
3	7/19	1	2,436	6.000	2.5	0.42	0	0	0	0	0	0	0	0
3	7/19	1	2,443	8.125	2.5	0.42	0	0	0	0	0	0	0	0
3	7/19	1	2,444	8.125	2.5	0.42	0	0	0	0	0	0	0	0
3	7/19	3	2,451	8.125	2.5	0.42	0	0	0	0	0	0	0	0
3	7/19	3	2,452	8.125	2.5	0.42	0	0	0	0	0	0	0	0
3	7/19	3	2,459	5.125	2.5	0.42	0	0	0	0	0	0	0	0

Appendix D.1. Drift gillnet catch by range, date, session, drift number, mesh, and species, Nushgak River sonar project, 2000.

Range[a]	Date	Session[b]	Drift Number	Mesh (in)	Fishing Time (min)	Fathom Hours	Catch							
							Total	Chinook	Sockeye	Chum	Pink	Coho	White	Other[c]
3	7/19	3	2,460	5.125	2.5	0.42	4	0	4	0	0	0	0	0
3	7/19	3	2,467	6.000	2.5	0.42	1	0	1	0	0	0	0	0
3	7/19	3	2,468	6.000	2.5	0.42	1	0	1	0	0	0	0	0
3	7/20	1	2,475	6.000	2.5	0.42	0	0	0	0	0	0	0	0
3	7/20	1	2,476	6.000	2.5	0.42	0	0	0	0	0	0	0	0
3	7/20	1	2,483	5.125	2.5	0.42	0	0	0	0	0	0	0	0
3	7/20	1	2,484	5.125	2.5	0.42	0	0	0	0	0	0	0	0
3	7/20	3	2,491	5.125	2.5	0.42	0	0	0	0	0	0	0	0
3	7/20	3	2,492	5.125	2.5	0.42	0	0	0	0	0	0	0	0
3	7/20	3	2,499	6.000	2.5	0.42	0	0	0	0	0	0	0	0
3	7/20	3	2,500	6.000	2.6	0.43	0	0	0	0	0	0	0	0
3	7/20	3	2,507	8.125	2.5	0.42	0	0	0	0	0	0	0	0
3	7/20	3	2,508	8.125	2.5	0.42	0	0	0	0	0	0	0	0
3	7/21	1	2,515	8.125	2.5	0.42	0	0	0	0	0	0	0	0
3	7/21	1	2,516	8.125	2.5	0.42	0	0	0	0	0	0	0	0
3	7/21	1	2,523	5.125	2.5	0.42	1	0	0	1	0	0	0	0
3	7/21	1	2,524	5.125	2.5	0.42	0	0	0	0	0	0	0	0
3	7/21	1	2,531	6.000	2.6	0.43	0	0	0	0	0	0	0	0
3	7/21	1	2,532	6.000	2.5	0.42	1	0	1	0	0	0	0	0
3	7/21	3	2,539	6.000	2.5	0.42	0	0	0	0	0	0	0	0
3	7/21	3	2,540	6.000	2.5	0.42	0	0	0	0	0	0	0	0
3	7/21	3	2,547	5.125	2.5	0.42	1	0	1	0	0	0	0	0
3	7/21	3	2,548	5.125	2.5	0.42	1	0	1	0	0	0	0	0
3	7/21	3	2,555	8.125	2.5	0.42	0	0	0	0	0	0	0	0
3	7/21	3	2,556	8.125	2.5	0.42	0	0	0	0	0	0	0	0
3	7/22	1	2,563	8.125	2.5	0.42	0	0	0	0	0	0	0	0
3	7/22	1	2,564	8.125	2.5	0.42	0	0	0	0	0	0	0	0
3	7/22	1	2,571	5.125	2.5	0.42	0	0	0	0	0	0	0	0
3	7/22	1	2,572	5.125	2.5	0.42	0	0	0	0	0	0	0	0
3	7/22	1	2,579	6.000	2.5	0.42	2	0	2	0	0	0	0	0
3	7/22	1	2,580	6.000	2.5	0.42	0	0	0	0	0	0	0	0
3	7/23	1	2,611	8.125	2.5	0.42	0	0	0	0	0	0	0	0
3	7/23	1	2,612	8.125	2.5	0.42	0	0	0	0	0	0	0	0
3	7/23	1	2,619	5.125	2.5	0.42	3	0	2	0	0	1	0	0
3	7/23	1	2,620	5.125	2.5	0.42	1	0	1	0	0	0	0	0
3	7/23	1	2,627	6.000	2.5	0.42	0	0	0	0	0	0	0	0
3	7/23	1	2,628	6.000	2.5	0.42	0	0	0	0	0	0	0	0
3	7/23	3	2,635	6.000	2.5	0.42	0	0	0	0	0	0	0	0
3	7/23	3	2,636	6.000	2.5	0.42	1	0	1	0	0	0	0	0
3	7/23	3	2,643	5.125	2.5	0.42	0	0	0	0	0	0	0	0
3	7/23	3	2,644	5.125	2.5	0.42	0	0	0	0	0	0	0	0
3	7/23	3	2,651	8.125	2.5	0.42	0	0	0	0	0	0	0	0
3	7/23	3	2,652	8.125	2.5	0.42	0	0	0	0	0	0	0	0
3	7/24	1	2,659	8.125	2.5	0.42	0	0	0	0	0	0	0	0
3	7/24	1	2,660	8.125	2.5	0.42	0	0	0	0	0	0	0	0
3	7/24	1	2,667	5.125	2.5	0.42	3	0	1	1	0	1	0	0
3	7/24	1	2,668	5.125	2.5	0.42	1	0	0	1	0	0	0	0
3	7/24	1	2,675	6.000	2.5	0.42	0	0	0	0	0	0	0	0
3	7/24	1	2,676	6.000	2.5	0.42	0	0	0	0	0	0	0	0
3	7/24	3	2,683	6.000	2.5	0.42	0	0	0	0	0	0	0	0
3	7/24	3	2,684	6.000	2.5	0.42	0	0	0	0	0	0	0	0
3	7/24	3	2,691	5.125	2.5	0.42	0	0	0	0	0	0	0	0
3	7/24	3	2,692	5.125	2.5	0.42	0	0	0	0	0	0	0	0
3	7/24	3	2,699	8.125	2.5	0.42	0	0	0	0	0	0	0	0
3	7/24	3	2,700	8.125	2.5	0.42	0	0	0	0	0	0	0	0

Appendix D.1. Drift gillnet catch by range, date, session, drift number, mesh, and species, Nushgak River sonar project, 2000.

							Catch							
Range[a]	Date	Session[b]	Drift Number	Mesh (in)	Fishing Time (min)	Fathom Hours	Total	Chinook	Sockeye	Chum	Pink	Coho	White	Other[c]
3	7/25	1	2,707	4.500	2.5	0.42	1	0	0	0	0	1	0	0
3	7/25	1	2,708	4.500	2.5	0.42	0	0	0	0	0	0	0	0
3	7/25	1	2,715	5.125	2.5	0.42	2	0	1	0	0	1	0	0
3	7/25	1	2,716	5.125	2.5	0.42	1	0	1	0	0	0	0	0
3	7/25	1	2,723	6.000	2.5	0.42	0	0	0	0	0	0	0	0
3	7/25	1	2,724	6.000	2.5	0.42	2	0	0	0	0	2	0	0
3	7/25	3	2,731	6.000	2.5	0.42	1	0	1	0	0	0	0	0
3	7/25	3	2,732	6.000	2.5	0.42	0	0	0	0	0	0	0	0
3	7/25	3	2,739	5.125	2.5	0.42	0	0	0	0	0	0	0	0
3	7/25	3	2,740	5.125	2.5	0.42	0	0	0	0	0	0	0	0
3	7/25	3	2,747	4.500	2.6	0.44	0	0	0	0	0	0	0	0
3	7/25	3	2,748	4.500	2.5	0.42	0	0	0	0	0	0	0	0
3	7/26	1	2,755	4.500	2.5	0.42	0	0	0	0	0	0	0	0
3	7/26	1	2,756	4.500	2.5	0.42	0	0	0	0	0	0	0	0
3	7/26	1	2,763	5.125	2.5	0.42	1	0	1	0	0	0	0	0
3	7/26	1	2,764	5.125	2.5	0.42	0	0	0	0	0	0	0	0
3	7/26	1	2,771	6.000	2.5	0.42	0	0	0	0	0	0	0	0
3	7/26	1	2,772	6.000	2.5	0.42	0	0	0	0	0	0	0	0
3	7/26	3	2,779	6.000	2.5	0.42	0	0	0	0	0	0	0	0
3	7/26	3	2,780	6.000	2.5	0.42	0	0	0	0	0	0	0	0
3	7/26	3	2,787	5.125	2.5	0.42	1	0	0	1	0	0	0	0
3	7/26	3	2,788	5.125	2.5	0.42	0	0	0	0	0	0	0	0
3	7/26	3	2,795	4.500	2.5	0.42	0	0	0	0	0	0	0	0
3	7/26	3	2,796	4.500	2.5	0.42	0	0	0	0	0	0	0	0
3	7/27	1	2,803	4.500	2.5	0.42	0	0	0	0	0	0	0	0
3	7/27	1	2,804	4.500	2.5	0.42	0	0	0	0	0	0	0	0
3	7/27	1	2,811	5.125	2.5	0.42	0	0	0	0	0	0	0	0
3	7/27	1	2,812	5.125	2.5	0.42	0	0	0	0	0	0	0	0
3	7/27	1	2,819	6.000	2.5	0.42	0	0	0	0	0	0	0	0
3	7/27	1	2,820	6.000	2.5	0.42	0	0	0	0	0	0	0	0
3	7/27	3	2,827	6.000	2.5	0.42	0	0	0	0	0	0	0	0
3	7/27	3	2,828	6.000	2.5	0.42	0	0	0	0	0	0	0	0
3	7/27	3	2,835	5.125	2.5	0.42	0	0	0	0	0	0	0	0
3	7/27	3	2,836	5.125	2.7	0.45	3	0	2	0	1	0	0	0
3	7/27	3	2,843	4.500	2.5	0.42	0	0	0	0	0	0	0	0
3	7/27	3	2,844	4.500	2.5	0.42	0	0	0	0	0	0	0	0
3	7/28	1	2,851	4.500	2.5	0.42	0	0	0	0	0	0	0	0
3	7/28	1	2,852	4.500	2.5	0.42	4	0	0	0	3	1	0	0
3	7/28	1	2,859	5.125	2.5	0.42	3	0	0	0	0	3	0	0
3	7/28	1	2,860	5.125	2.5	0.42	0	0	0	0	0	0	0	0
3	7/28	1	2,867	6.000	2.5	0.42	0	0	0	0	0	0	0	0
3	7/28	1	2,868	6.000	2.5	0.42	0	0	0	0	0	0	0	0
3	7/28	3	2,875	6.000	2.5	0.42	1	0	0	0	1	0	0	0
3	7/28	3	2,876	6.000	2.5	0.42	0	0	0	0	0	0	0	0
3	7/28	3	2,883	5.125	2.5	0.42	2	0	0	0	1	1	0	0
3	7/28	3	2,884	5.125	2.5	0.42	0	0	0	0	0	0	0	0
3	7/28	3	2,891	4.500	2.6	0.43	2	0	0	0	2	0	0	0
3	7/28	3	2,892	4.500	2.5	0.42	0	0	0	0	0	0	0	0
3	7/29	1	2,899	4.500	2.5	0.42	1	0	0	0	1	0	0	0
3	7/29	1	2,900	4.500	2.5	0.42	0	0	0	0	0	0	0	0
3	7/29	1	2,907	5.125	2.5	0.42	2	0	0	0	0	2	0	0
3	7/29	1	2,908	5.125	2.5	0.42	0	0	0	0	0	0	0	0
3	7/29	1	2,915	6.000	2.5	0.42	3	0	0	0	0	3	0	0
3	7/29	1	2,916	6.000	2.5	0.42	0	0	0	0	0	0	0	0
3	7/29	3	2,923	6.000	2.5	0.42	0	0	0	0	0	0	0	0

Appendix D.1. Drift gillnet catch by range, date, session, drift number, mesh, and species, Nushgak River sonar project, 2000.

Range[a]	Date	Session[b]	Drift Number	Mesh (in)	Fishing Time (min)	Fathom Hours	Catch							
							Total	Chinook	Sockeye	Chum	Pink	Coho	White	Other[c]
3	7/29	3	2,924	6.000	2.5	0.42	0	0	0	0	0	0	0	0
3	7/29	3	2,931	5.125	2.5	0.42	1	0	0	0	1	0	0	0
3	7/29	3	2,932	5.125	2.5	0.42	0	0	0	0	0	0	0	0
3	7/29	3	2,939	4.500	2.5	0.42	0	0	0	0	0	0	0	0
3	7/29	3	2,940	4.500	2.5	0.42	2	0	0	0	1	1	0	0
3	7/30	1	2,947	4.500	2.5	0.42	0	0	0	0	0	0	0	0
3	7/30	1	2,948	4.500	2.5	0.42	0	0	0	0	0	0	0	0
3	7/30	1	2,955	5.125	2.5	0.42	0	0	0	0	0	0	0	0
3	7/30	1	2,956	5.125	2.5	0.42	0	0	0	0	0	0	0	0
3	7/30	1	2,963	6.000	2.5	0.42	0	0	0	0	0	0	0	0
3	7/30	1	2,964	6.000	2.5	0.42	0	0	0	0	0	0	0	0
3	7/30	3	2,971	6.000	2.5	0.42	0	0	0	0	0	0	0	0
3	7/30	3	2,972	6.000	2.5	0.42	0	0	0	0	0	0	0	0
3	7/30	3	2,979	5.125	2.5	0.42	0	0	0	0	0	0	0	0
3	7/30	3	2,980	5.125	2.5	0.42	0	0	0	0	0	0	0	0
3	7/30	3	2,987	4.500	2.5	0.42	0	0	0	0	0	0	0	0
3	7/30	3	2,988	4.500	2.5	0.42	2	0	0	0	0	2	0	0
3	7/31	1	2,995	4.500	2.5	0.42	2	0	0	1	1	0	0	0
3	7/31	1	2,996	4.500	2.5	0.42	0	0	0	0	0	0	0	0
3	7/31	1	3,003	5.125	2.0	0.33	6	0	0	0	6	0	0	0
3	7/31	1	3,004	5.125	2.5	0.42	0	0	0	0	0	0	0	0
3	7/31	1	3,011	6.000	2.5	0.42	1	0	0	0	1	0	0	0
3	7/31	1	3,012	6.000	2.5	0.42	0	0	0	0	0	0	0	0
3	7/31	3	3,019	6.000	2.6	0.43	1	0	0	0	0	1	0	0
3	7/31	3	3,020	6.000	2.5	0.42	0	0	0	0	0	0	0	0
3	7/31	3	3,027	4.500	2.5	0.42	2	0	0	0	0	2	0	0
3	7/31	3	3,028	4.500	2.5	0.42	3	0	0	0	2	1	0	0
3	7/31	3	3,035	5.125	2.5	0.42	1	0	0	0	0	1	0	0
3	7/31	3	3,036	5.125	2.5	0.42	0	0	0	0	0	0	0	0
3	8/02	1	3,079	4.500	2.0	0.33	2	0	0	0	2	0	0	0
3	8/02	1	3,080	4.500	2.0	0.33	2	0	0	0	1	1	0	0
3	8/02	1	3,087	5.125	2.5	0.42	0	0	0	0	0	0	0	0
3	8/02	1	3,088	5.125	2.5	0.42	0	0	0	0	0	0	0	0
3	8/02	1	3,095	6.000	2.0	0.33	6	0	0	0	0	6	0	0
3	8/02	1	3,096	6.000	2.5	0.42	0	0	0	0	0	0	0	0
3	8/02	3	3,103	6.000	2.5	0.42	0	0	0	0	0	0	0	0
3	8/02	3	3,104	6.000	2.5	0.42	5	0	0	0	0	5	0	0
3	8/02	3	3,111	4.500	2.0	0.33	1	0	0	0	0	1	0	0
3	8/02	3	3,112	4.500	2.0	0.33	3	0	0	0	0	3	0	0
3	8/02	3	3,119	5.125	1.0	0.17	6	0	0	0	5	1	0	0
3	8/02	3	3,120	5.125	2.5	0.42	1	0	0	0	0	1	0	0
3	8/03	1	3,127	5.125	2.5	0.42	0	0	0	0	0	0	0	0
3	8/03	1	3,128	5.125	1.5	0.25	7	0	0	0	1	6	0	0
3	8/03	1	3,135	6.000	2.5	0.42	3	0	0	0	0	3	0	0
3	8/03	1	3,136	6.000	2.5	0.42	1	0	0	0	0	1	0	0
3	8/03	1	3,143	4.500	1.5	0.25	4	0	0	0	0	4	0	0
3	8/03	1	3,144	4.500	2.0	0.33	0	0	0	0	0	0	0	0
3	8/03	3	3,151	4.500	2.5	0.42	4	0	0	0	1	3	0	0
3	8/03	3	3,152	4.500	2.0	0.33	12	0	0	0	5	7	0	0
3	8/03	3	3,159	5.125	2.5	0.42	3	0	0	0	3	0	0	0
3	8/03	3	3,160	5.125	2.0	0.33	2	0	0	0	2	0	0	0
3	8/03	3	3,167	6.000	1.5	0.25	3	0	0	0	0	3	0	0
3	8/03	3	3,168	6.000	1.5	0.25	3	0	0	0	0	3	0	0
3	8/04	1	3,175	6.000	2.0	0.33	0	0	0	0	0	0	0	0
3	8/04	1	3,176	6.000	2.0	0.33	0	0	0	0	0	0	0	0

Appendix D.1. Drift gillnet catch by range, date, session, drift number, mesh, and species, Nushgak River sonar project, 2000.

Range[a]	Date	Session[b]	Drift Number	Mesh (in)	Fishing Time (min)	Fathom Hours	Catch							
							Total	Chinook	Sockeye	Chum	Pink	Coho	White	Other[c]
3	8/04	1	3,183	4.500	1.5	0.25	7	0	0	0	1	6	0	0
3	8/04	1	3,184	4.500	1.5	0.25	0	0	0	0	0	0	0	0
3	8/04	1	3,190	5.125	1.5	0.25	2	0	0	0	0	2	0	0
3	8/04	1	3,191	5.125	1.5	0.25	0	0	0	0	0	0	0	0
3	8/04	3	3,199	5.125	1.5	0.25	1	0	0	0	0	1	0	0
3	8/04	3	3,200	5.125	1.5	0.25	4	0	0	0	0	4	0	0
3	8/04	3	3,207	4.500	1.5	0.25	2	0	0	0	0	2	0	0
3	8/04	3	3,208	4.500	1.5	0.25	7	0	0	0	3	4	0	0
3	8/04	3	3,215	6.000	1.5	0.25	1	0	0	0	1	0	0	0
3	8/04	3	3,216	6.000	1.5	0.25	2	0	0	0	0	2	0	0
3	8/05	1	3,223	6.000	1.5	0.25	2	0	0	0	0	2	0	0
3	8/05	1	3,224	6.000	2.0	0.33	0	0	0	0	0	0	0	0
3	8/05	1	3,231	4.500	1.5	0.25	3	0	0	0	1	2	0	0
3	8/05	1	3,232	4.500	1.5	0.25	2	0	0	0	0	2	0	0
3	8/05	1	3,239	5.125	1.5	0.25	2	0	0	0	0	2	0	0
3	8/05	1	3,240	5.125	1.5	0.25	0	0	0	0	0	0	0	0
3	8/05	3	3,247	5.125	1.5	0.25	1	0	0	0	0	1	0	0
3	8/05	3	3,248	5.125	2.1	0.35	4	0	0	0	1	3	0	0
3	8/05	3	3,255	4.500	1.5	0.25	7	0	0	0	2	5	0	0
3	8/05	3	3,256	4.500	1.5	0.25	0	0	0	0	0	0	0	0
3	8/05	3	3,263	6.000	1.6	0.26	1	0	0	0	0	1	0	0
3	8/05	3	3,264	6.000	1.5	0.25	1	0	0	0	0	1	0	0
3	8/06	1	3,271	6.000	2.5	0.42	2	0	0	0	2	0	0	0
3	8/06	1	3,272	6.000	2.5	0.42	0	0	0	0	0	0	0	0
3	8/06	1	3,279	4.500	2.5	0.42	3	0	0	0	0	3	0	0
3	8/06	1	3,280	4.500	2.5	0.42	3	0	0	0	1	2	0	0
3	8/06	1	3,287	5.125	2.5	0.42	0	0	0	0	0	0	0	0
3	8/06	1	3,288	5.125	2.5	0.42	0	0	0	0	0	0	0	0
3	8/06	3	3,295	5.125	2.0	0.33	3	0	0	1	2	0	0	0
3	8/06	3	3,296	5.125	2.0	0.33	0	0	0	0	0	0	0	0
3	8/06	3	3,303	6.000	2.2	0.37	0	0	0	0	0	0	0	0
3	8/06	3	3,304	6.000	2.0	0.33	0	0	0	0	0	0	0	0
3	8/06	3	3,311	4.500	2.1	0.35	0	0	0	0	0	0	0	0
3	8/06	3	3,312	4.500	2.0	0.33	0	0	0	0	0	0	0	0
3	8/07	3	3,343	6.000	2.5	0.42	0	0	0	0	0	0	0	0
3	8/07	3	3,344	6.000	2.5	0.42	0	0	0	0	0	0	0	0
3	8/07	3	3,351	5.125	2.5	0.42	0	0	0	0	0	0	0	0
3	8/07	3	3,352	5.125	2.5	0.42	0	0	0	0	0	0	0	0
3	8/07	3	3,359	4.500	2.5	0.42	0	0	0	0	0	0	0	0
3	8/07	3	3,360	4.500	2.5	0.42	2	0	0	1	1	0	0	0
3	8/08	1	3,367	4.500	2.5	0.42	2	0	0	0	0	2	0	0
3	8/08	1	3,368	4.500	2.5	0.42	0	0	0	0	0	0	0	0
3	8/08	1	3,375	5.125	2.5	0.42	0	0	0	0	0	0	0	0
3	8/08	1	3,376	5.125	2.5	0.42	2	0	0	0	0	2	0	0
3	8/08	1	3,383	6.000	2.5	0.42	0	0	0	0	0	0	0	0
3	8/08	1	3,384	6.000	2.5	0.42	0	0	0	0	0	0	0	0
3	8/08	3	3,391	6.000	2.5	0.42	0	0	0	0	0	0	0	0
3	8/08	3	3,392	6.000	2.5	0.42	0	0	0	0	0	0	0	0
3	8/08	3	3,399	4.500	2.5	0.42	1	0	0	0	1	0	0	0
3	8/08	3	3,400	4.500	2.5	0.42	0	0	0	0	0	0	0	0
3	8/08	3	3,407	5.125	2.5	0.42	0	0	0	0	0	0	0	0
3	8/08	3	3,408	5.125	2.5	0.42	0	0	0	0	0	0	0	0
3	8/09	3	3,439	5.125	2.5	0.42	0	0	0	0	0	0	0	0
3	8/09	3	3,440	5.125	2.5	0.42	1	0	0	0	1	0	0	0
3	8/09	3	3,447	4.500	2.5	0.42	0	0	0	0	0	0	0	0

Appendix D.1. Drift gillnet catch by range, date, session, drift number, mesh, and species, Nushgak River sonar project, 2000.

Range[a]	Date	Session[b]	Drift Number	Mesh (in)	Fishing Time (min)	Fathom Hours	Catch							
							Total	Chinook	Sockeye	Chum	Pink	Coho	White	Other[c]
3	8/09	3	3,448	4.500	2.5	0.42	0	0	0	0	0	0	0	0
3	8/09	3	3,455	6.000	2.5	0.42	0	0	0	0	0	0	0	0
3	8/09	3	3,456	6.000	2.5	0.42	0	0	0	0	0	0	0	0
3	8/10	1	3,463	6.000	2.5	0.42	1	0	0	0	0	1	0	0
3	8/10	1	3,464	6.000	2.5	0.42	0	0	0	0	0	0	0	0
3	8/10	1	3,471	5.125	2.5	0.42	0	0	0	0	0	0	0	0
3	8/10	1	3,472	5.125	2.5	0.42	0	0	0	0	0	0	0	0
3	8/10	1	3,479	4.500	2.5	0.42	0	0	0	0	0	0	0	0
3	8/10	1	3,480	4.500	2.5	0.42	0	0	0	0	0	0	0	0
3	8/10	3	3,487	4.500	2.5	0.42	0	0	0	0	0	0	0	0
3	8/10	3	3,488	4.500	2.5	0.42	0	0	0	0	0	0	0	0
3	8/10	3	3,495	5.125	2.5	0.42	1	0	0	0	1	0	0	0
3	8/10	3	3,496	5.125	2.5	0.42	0	0	0	0	0	0	0	0
3	8/10	3	3,503	6.000	2.5	0.42	0	0	0	0	0	0	0	0
3	8/10	3	3,504	6.000	2.5	0.42	0	0	0	0	0	0	0	0
3	8/11	1	3,511	6.000	2.5	0.42	0	0	0	0	0	0	0	0
3	8/11	1	3,519	4.500	2.5	0.42	0	0	0	0	0	0	0	0
3	8/11	1	3,520	4.500	2.5	0.42	0	0	0	0	0	0	0	0
3	8/11	1	3,527	5.125	2.5	0.42	0	0	0	0	0	0	0	0
3	8/11	1	3,528	5.125	2.5	0.42	0	0	0	0	0	0	0	0
3	8/11	3	3,535	5.125	2.5	0.42	0	0	0	0	0	0	0	0
3	8/11	3	3,536	5.125	2.5	0.42	0	0	0	0	0	0	0	0
3	8/11	3	3,543	6.000	2.5	0.42	0	0	0	0	0	0	0	0
3	8/11	3	3,544	6.000	2.5	0.42	0	0	0	0	0	0	0	0
3	8/11	3	3,551	4.500	2.5	0.42	0	0	0	0	0	0	0	0
3	8/11	3	3,552	4.500	2.5	0.42	1	0	1	0	0	0	0	0
3	8/12	1	3,559	4.500	2.5	0.42	0	0	0	0	0	0	0	0
3	8/12	1	3,560	4.500	2.5	0.42	0	0	0	0	0	0	0	0
3	8/12	1	3,567	5.125	2.5	0.42	0	0	0	0	0	0	0	0
3	8/12	1	3,568	5.125	2.5	0.42	0	0	0	0	0	0	0	0
3	8/12	1	3,575	6.000	2.5	0.42	0	0	0	0	0	0	0	0
3	8/12	1	3,576	6.000	2.5	0.42	0	0	0	0	0	0	0	0
3	8/12	3	3,583	6.000	2.5	0.42	0	0	0	0	0	0	0	0
3	8/12	3	3,584	6.000	2.5	0.42	0	0	0	0	0	0	0	0
3	8/12	3	3,591	5.125	2.5	0.42	0	0	0	0	0	0	0	0
3	8/12	3	3,592	5.125	2.5	0.42	1	0	0	0	0	1	0	0
3	8/12	3	3,599	4.500	2.5	0.42	0	0	0	0	0	0	0	0
3	8/12	3	3,600	4.500	2.5	0.42	0	0	0	0	0	0	0	0
3	8/13	1	3,607	4.500	2.5	0.42	1	0	0	0	0	1	0	0
3	8/13	1	3,608	4.500	2.5	0.42	0	0	0	0	0	0	0	0
3	8/13	1	3,615	5.125	2.5	0.42	0	0	0	0	0	0	0	0
3	8/13	1	3,616	5.125	2.5	0.42	0	0	0	0	0	0	0	0
3	8/13	1	3,623	6.000	2.5	0.42	0	0	0	0	0	0	0	0
3	8/13	1	3,624	6.000	2.5	0.42	0	0	0	0	0	0	0	0
3	8/13	3	3,631	6.000	2.5	0.42	0	0	0	0	0	0	0	0
3	8/13	3	3,632	6.000	2.5	0.42	0	0	0	0	0	0	0	0
3	8/13	3	3,639	4.500	2.3	0.39	1	0	0	0	0	1	0	0
3	8/13	3	3,640	4.500	2.5	0.42	0	0	0	0	0	0	0	0
3	8/13	3	3,647	5.125	2.5	0.42	0	0	0	0	0	0	0	0
3	8/13	3	3,648	5.125	2.5	0.42	0	0	0	0	0	0	0	0
3	8/14	1	3,655	5.125	2.5	0.42	0	0	0	0	0	0	0	0
3	8/14	1	3,656	5.125	2.5	0.42	0	0	0	0	0	0	0	0
3	8/14	1	3,663	4.500	2.5	0.42	0	0	0	0	0	0	0	0
3	8/14	1	3,664	4.500	2.5	0.42	0	0	0	0	0	0	0	0
3	8/14	1	3,671	6.000	2.5	0.42	0	0	0	0	0	0	0	0

Appendix D.1. Drift gillnet catch by range, date, session, drift number, mesh, and species, Nushgak River sonar project, 2000.

Range[a]	Date	Session[b]	Drift Number	Mesh (in)	Fishing Time (min)	Fathom Hours	Catch							
							Total	Chinook	Sockeye	Chum	Pink	Coho	White	Other[c]
3	8/14	1	3,672	6.000	2.5	0.42	1	0	0	0	0	1	0	0
3	8/14	3	3,679	6.000	2.5	0.42	0	0	0	0	0	0	0	0
3	8/14	3	3,680	6.000	2.5	0.42	1	0	0	0	0	1	0	0
3	8/14	3	3,687	4.500	2.5	0.42	0	0	0	0	0	0	0	0
3	8/14	3	3,688	4.500	2.4	0.40	0	0	0	0	0	0	0	0
3	8/14	3	3,695	5.125	2.5	0.42	0	0	0	0	0	0	0	0
3	8/14	3	3,696	5.125	2.5	0.42	0	0	0	0	0	0	0	0
3	8/15	1	3,703	5.125	2.5	0.42	0	0	0	0	0	0	0	0
3	8/15	1	3,704	5.125	2.5	0.42	0	0	0	0	0	0	0	0
3	8/15	1	3,711	4.500	2.5	0.42	0	0	0	0	0	0	0	0
3	8/15	1	3,712	4.500	2.5	0.42	0	0	0	0	0	0	0	0
3	8/15	1	3,719	6.000	2.5	0.42	0	0	0	0	0	0	0	0
3	8/15	1	3,720	6.000	2.5	0.42	0	0	0	0	0	0	0	0
3	8/15	3	3,727	6.000	2.5	0.42	0	0	0	0	0	0	0	0
3	8/15	3	3,728	6.000	2.5	0.42	0	0	0	0	0	0	0	0
3	8/15	3	3,735	4.500	2.5	0.42	2	0	0	0	0	2	0	0
3	8/15	3	3,736	4.500	2.5	0.42	0	0	0	0	0	0	0	0
3	8/15	3	3,743	5.125	2.5	0.42	0	0	0	0	0	0	0	0
3	8/15	3	3,744	5.125	2.5	0.42	0	0	0	0	0	0	0	0
3	8/16	1	3,751	5.125	2.5	0.42	0	0	0	0	0	0	0	0
3	8/16	1	3,752	5.125	2.5	0.42	0	0	0	0	0	0	0	0
3	8/16	1	3,759	6.000	2.5	0.42	0	0	0	0	0	0	0	0
3	8/16	1	3,760	6.000	2.5	0.42	0	0	0	0	0	0	0	0
3	8/16	1	3,767	4.500	2.5	0.42	0	0	0	0	0	0	0	0
3	8/16	1	3,768	4.500	2.5	0.42	0	0	0	0	0	0	0	0
3	8/16	3	3,775	4.500	2.5	0.42	0	0	0	0	0	0	0	0
3	8/16	3	3,776	4.500	2.5	0.42	0	0	0	0	0	0	0	0
3	8/16	3	3,783	5.125	2.5	0.42	0	0	0	0	0	0	0	0
3	8/16	3	3,784	5.125	2.5	0.42	0	0	0	0	0	0	0	0
3	8/16	3	3,791	6.000	2.5	0.42	0	0	0	0	0	0	0	0
3	8/16	3	3,792	6.000	2.5	0.42	0	0	0	0	0	0	0	0
3	8/17	1	3,799	6.000	2.5	0.42	1	0	0	0	0	1	0	0
3	8/17	1	3,800	6.000	2.5	0.42	0	0	0	0	0	0	0	0
3	8/17	1	3,807	4.500	2.5	0.42	0	0	0	0	0	0	0	0
3	8/17	1	3,808	4.500	2.5	0.42	0	0	0	0	0	0	0	0
3	8/17	1	3,815	5.125	2.5	0.42	0	0	0	0	0	0	0	0
3	8/17	1	3,816	5.125	2.5	0.42	0	0	0	0	0	0	0	0
3	8/17	3	3,823	5.125	2.5	0.41	0	0	0	0	0	0	0	0
3	8/17	3	3,824	5.125	2.5	0.42	0	0	0	0	0	0	0	0
3	8/17	3	3,831	4.500	2.3	0.39	0	0	0	0	0	0	0	0
3	8/17	3	3,832	4.500	2.5	0.42	0	0	0	0	0	0	0	0
3	8/17	3	3,839	6.000	2.5	0.42	0	0	0	0	0	0	0	0
3	8/17	3	3,840	6.000	2.5	0.42	0	0	0	0	0	0	0	0
Range 3 Total -					3,076.3	515.09	1037	45	550	246	59	133	1	3
4	6/10	3	7	5.125	2.5	0.42	0	0	0	0	0	0	0	0
4	6/10	3	8	5.125	2.5	0.41	0	0	0	0	0	0	0	0
4	6/10	3	15	6.000	2.5	0.42	0	0	0	0	0	0	0	0
4	6/10	3	16	6.000	2.5	0.42	0	0	0	0	0	0	0	0
4	6/10	3	23	8.125	2.5	0.42	0	0	0	0	0	0	0	0
4	6/10	3	24	8.125	2.5	0.42	0	0	0	0	0	0	0	0
4	6/11	1	31	8.125	2.5	0.42	0	0	0	0	0	0	0	0
4	6/11	1	32	8.125	2.5	0.42	0	0	0	0	0	0	0	0
4	6/11	1	39	5.125	2.5	0.42	0	0	0	0	0	0	0	0

Appendix D.1. Drift gillnet catch by range, date, session, drift number, mesh, and species, Nushgak River sonar project, 2000.

Range[a]	Date	Session[b]	Drift Number	Mesh (in)	Fishing Time (min)	Fathom Hours	Catch							
							Total	Chinook	Sockeye	Chum	Pink	Coho	White	Other[c]
4	6/11	1	40	5.125	2.5	0.42	0	0	0	0	0	0	0	0
4	6/11	1	47	6.000	2.5	0.42	0	0	0	0	0	0	0	0
4	6/11	1	48	6.000	2.5	0.42	0	0	0	0	0	0	0	0
4	6/11	3	55	5.125	2.5	0.42	0	0	0	0	0	0	0	0
4	6/11	3	56	5.125	2.5	0.42	0	0	0	0	0	0	0	0
4	6/11	3	63	6.000	2.5	0.42	0	0	0	0	0	0	0	0
4	6/11	3	64	6.000	2.5	0.42	0	0	0	0	0	0	0	0
4	6/11	3	71	8.125	2.5	0.42	0	0	0	0	0	0	0	0
4	6/11	3	72	8.125	2.5	0.42	0	0	0	0	0	0	0	0
4	6/12	1	79	8.125	2.5	0.42	0	0	0	0	0	0	0	0
4	6/12	1	80	8.125	2.5	0.42	0	0	0	0	0	0	0	0
4	6/12	1	87	5.125	2.5	0.42	0	0	0	0	0	0	0	0
4	6/12	1	88	5.125	2.5	0.42	0	0	0	0	0	0	0	0
4	6/12	1	95	6.000	2.5	0.42	0	0	0	0	0	0	0	0
4	6/12	1	96	6.000	2.5	0.42	0	0	0	0	0	0	0	0
4	6/12	3	103	6.000	2.5	0.42	1	1	0	0	0	0	0	0
4	6/12	3	104	6.000	2.5	0.42	0	0	0	0	0	0	0	0
4	6/12	3	111	5.125	2.5	0.42	0	0	0	0	0	0	0	0
4	6/12	3	112	5.125	2.5	0.41	0	0	0	0	0	0	0	0
4	6/12	3	119	8.125	2.5	0.42	0	0	0	0	0	0	0	0
4	6/12	3	120	8.125	2.5	0.42	0	0	0	0	0	0	0	0
4	6/13	1	127	8.125	2.5	0.42	0	0	0	0	0	0	0	0
4	6/13	1	128	8.125	2.5	0.42	0	0	0	0	0	0	0	0
4	6/13	1	135	5.125	2.5	0.42	0	0	0	0	0	0	0	0
4	6/13	1	136	5.125	2.5	0.42	0	0	0	0	0	0	0	0
4	6/13	1	143	6.000	2.5	0.42	2	0	0	2	0	0	0	0
4	6/13	1	144	6.000	2.5	0.42	0	0	0	0	0	0	0	0
4	6/13	3	151	6.000	2.5	0.42	2	0	0	2	0	0	0	0
4	6/13	3	152	6.000	2.5	0.42	0	0	0	0	0	0	0	0
4	6/13	3	159	5.125	2.5	0.42	0	0	0	0	0	0	0	0
4	6/13	3	160	5.125	2.5	0.42	0	0	0	0	0	0	0	0
4	6/13	3	167	8.125	2.5	0.42	0	0	0	0	0	0	0	0
4	6/13	3	168	8.125	2.5	0.42	0	0	0	0	0	0	0	0
4	6/14	1	175	8.125	2.5	0.42	0	0	0	0	0	0	0	0
4	6/14	1	176	8.125	2.5	0.42	0	0	0	0	0	0	0	0
4	6/14	1	183	6.000	2.5	0.42	0	0	0	0	0	0	0	0
4	6/14	1	184	6.000	2.5	0.42	0	0	0	0	0	0	0	0
4	6/14	1	191	5.125	2.5	0.42	0	0	0	0	0	0	0	0
4	6/14	1	192	5.125	2.5	0.42	1	1	0	0	0	0	0	0
4	6/14	3	199	5.125	2.5	0.42	1	1	0	0	0	0	0	0
4	6/14	3	200	5.125	2.5	0.42	0	0	0	0	0	0	0	0
4	6/14	3	207	6.000	2.5	0.42	0	0	0	0	0	0	0	0
4	6/14	3	208	6.000	2.5	0.41	0	0	0	0	0	0	0	0
4	6/14	3	215	8.125	2.5	0.42	0	0	0	0	0	0	0	0
4	6/14	3	216	8.125	2.5	0.42	0	0	0	0	0	0	0	0
4	6/15	1	223	8.125	2.5	0.42	0	0	0	0	0	0	0	0
4	6/15	1	224	8.125	2.5	0.42	0	0	0	0	0	0	0	0
4	6/15	1	231	5.125	2.5	0.42	0	0	0	0	0	0	0	0
4	6/15	1	232	5.125	2.5	0.42	0	0	0	0	0	0	0	0
4	6/15	1	239	6.000	2.5	0.42	0	0	0	0	0	0	0	0
4	6/15	1	240	6.000	2.5	0.42	0	0	0	0	0	0	0	0
4	6/15	3	247	6.000	2.5	0.42	0	0	0	0	0	0	0	0
4	6/15	3	248	6.000	2.5	0.42	0	0	0	0	0	0	0	0
4	6/15	3	255	8.125	2.5	0.42	0	0	0	0	0	0	0	0
4	6/15	3	256	8.125	2.5	0.42	0	0	0	0	0	0	0	0

Appendix D.1. Drift gillnet catch by range, date, session, drift number, mesh, and species, Nushgak River sonar project, 2000.

							Catch							
Range[a]	Date	Session[b]	Drift Number	Mesh (in)	Fishing Time (min)	Fathom Hours	Total	Chinook	Sockeye	Chum	Pink	Coho	White	Other[c]
4	6/15	3	263	5.125	2.5	0.42	0	0	0	0	0	0	0	0
4	6/15	3	264	5.125	2.5	0.42	1	1	0	0	0	0	0	0
4	6/16	1	271	5.125	2.6	0.44	0	0	0	0	0	0	0	0
4	6/16	1	272	5.125	2.5	0.42	0	0	0	0	0	0	0	0
4	6/16	1	279	6.000	2.5	0.42	0	0	0	0	0	0	0	0
4	6/16	1	280	6.000	2.5	0.42	0	0	0	0	0	0	0	0
4	6/16	1	287	8.125	2.5	0.42	0	0	0	0	0	0	0	0
4	6/16	1	288	8.125	2.5	0.42	0	0	0	0	0	0	0	0
4	6/16	3	295	8.125	2.5	0.42	0	0	0	0	0	0	0	0
4	6/16	3	296	8.125	2.5	0.42	0	0	0	0	0	0	0	0
4	6/16	3	303	6.000	2.5	0.42	0	0	0	0	0	0	0	0
4	6/16	3	304	6.000	2.5	0.42	0	0	0	0	0	0	0	0
4	6/16	3	311	5.125	2.5	0.42	0	0	0	0	0	0	0	0
4	6/16	3	312	5.125	2.5	0.41	1	1	0	0	0	0	0	0
4	6/17	1	319	5.125	2.5	0.42	0	0	0	0	0	0	0	0
4	6/17	1	320	5.125	2.5	0.42	0	0	0	0	0	0	0	0
4	6/17	1	327	6.000	2.5	0.42	0	0	0	0	0	0	0	0
4	6/17	1	328	6.000	2.5	0.42	0	0	0	0	0	0	0	0
4	6/17	1	335	8.125	2.5	0.42	0	0	0	0	0	0	0	0
4	6/17	1	336	8.125	2.5	0.42	0	0	0	0	0	0	0	0
4	6/17	3	343	8.125	2.5	0.42	0	0	0	0	0	0	0	0
4	6/17	3	344	8.125	2.6	0.43	0	0	0	0	0	0	0	0
4	6/17	3	351	6.000	2.5	0.42	0	0	0	0	0	0	0	0
4	6/17	3	352	6.000	2.5	0.42	0	0	0	0	0	0	0	0
4	6/17	3	359	5.125	2.6	0.43	0	0	0	0	0	0	0	0
4	6/17	3	360	5.125	2.5	0.42	0	0	0	0	0	0	0	0
4	6/18	1	367	5.125	2.5	0.42	0	0	0	0	0	0	0	0
4	6/18	1	368	5.125	2.5	0.42	0	0	0	0	0	0	0	0
4	6/18	1	375	6.000	2.5	0.42	0	0	0	0	0	0	0	0
4	6/18	1	376	6.000	2.5	0.42	0	0	0	0	0	0	0	0
4	6/18	1	383	8.125	2.5	0.42	0	0	0	0	0	0	0	0
4	6/18	1	384	8.125	2.5	0.42	0	0	0	0	0	0	0	0
4	6/18	3	391	8.125	2.5	0.42	0	0	0	0	0	0	0	0
4	6/18	3	392	8.125	2.5	0.42	0	0	0	0	0	0	0	0
4	6/18	3	407	6.000	2.5	0.42	0	0	0	0	0	0	0	0
4	6/18	3	408	6.000	2.7	0.45	0	0	0	0	0	0	0	0
4	6/19	3	439	8.125	2.5	0.42	0	0	0	0	0	0	0	0
4	6/19	3	440	8.125	2.5	0.42	1	1	0	0	0	0	0	0
4	6/19	3	447	6.000	2.5	0.42	0	0	0	0	0	0	0	0
4	6/19	3	448	6.000	2.5	0.42	1	0	0	1	0	0	0	0
4	6/19	3	455	5.125	2.5	0.42	3	0	0	3	0	0	0	0
4	6/19	3	456	5.125	2.5	0.42	1	0	0	1	0	0	0	0
4	6/20	1	463	5.125	2.5	0.42	0	0	0	0	0	0	0	0
4	6/20	1	464	5.125	2.5	0.42	0	0	0	0	0	0	0	0
4	6/20	1	471	6.000	2.5	0.42	0	0	0	0	0	0	0	0
4	6/20	1	472	6.000	2.5	0.42	0	0	0	0	0	0	0	0
4	6/20	1	479	8.125	2.5	0.42	0	0	0	0	0	0	0	0
4	6/20	1	480	8.125	2.6	0.43	0	0	0	0	0	0	0	0
4	6/20	2	487	8.125	2.5	0.42	0	0	0	0	0	0	0	0
4	6/20	2	488	8.125	2.5	0.42	0	0	0	0	0	0	0	0
4	6/20	2	495	6.000	2.7	0.44	0	0	0	0	0	0	0	0
4	6/20	2	496	6.000	2.5	0.42	1	1	0	0	0	0	0	0
4	6/20	2	503	5.125	2.5	0.42	0	0	0	0	0	0	0	0
4	6/20	2	504	5.125	2.5	0.42	1	0	0	1	0	0	0	0
4	6/20	3	511	5.125	2.6	0.44	1	1	0	0	0	0	0	0

Appendix D.1. Drift gillnet catch by range, date, session, drift number, mesh, and species, Nushgak River sonar project, 2000.

Range[a]	Date	Session[b]	Drift Number	Mesh (in)	Fishing Time (min)	Fathom Hours	Catch							
							Total	Chinook	Sockeye	Chum	Pink	Coho	White	Other[c]
4	6/20	3	512	5.125	2.5	0.42	0	0	0	0	0	0	0	0
4	6/20	3	519	6.000	2.5	0.42	0	0	0	0	0	0	0	0
4	6/20	3	520	6.000	2.5	0.42	1	1	0	0	0	0	0	0
4	6/20	3	527	8.125	2.5	0.42	0	0	0	0	0	0	0	0
4	6/20	3	528	8.125	2.5	0.42	0	0	0	0	0	0	0	0
4	6/21	1	535	8.125	2.5	0.42	0	0	0	0	0	0	0	0
4	6/21	1	536	8.125	2.5	0.42	0	0	0	0	0	0	0	0
4	6/21	1	543	6.000	2.5	0.42	1	0	0	1	0	0	0	0
4	6/21	1	544	6.000	2.5	0.42	0	0	0	0	0	0	0	0
4	6/21	1	551	5.125	2.5	0.42	0	0	0	0	0	0	0	0
4	6/21	1	552	5.125	2.5	0.42	1	1	0	0	0	0	0	0
4	6/21	2	559	5.125	2.5	0.42	0	0	0	0	0	0	0	0
4	6/21	2	560	5.125	2.5	0.42	3	0	0	3	0	0	0	0
4	6/21	2	567	6.000	2.5	0.42	0	0	0	0	0	0	0	0
4	6/21	2	568	6.000	2.5	0.42	0	0	0	0	0	0	0	0
4	6/21	2	575	8.125	2.7	0.44	0	0	0	0	0	0	0	0
4	6/21	2	576	8.125	2.5	0.42	0	0	0	0	0	0	0	0
4	6/21	3	583	8.125	2.5	0.42	1	0	0	1	0	0	0	0
4	6/21	3	584	8.125	2.5	0.42	0	0	0	0	0	0	0	0
4	6/21	3	591	6.000	2.5	0.42	1	0	1	0	0	0	0	0
4	6/21	3	592	6.000	2.5	0.42	1	0	0	1	0	0	0	0
4	6/21	3	599	5.125	2.5	0.42	2	0	0	2	0	0	0	0
4	6/21	3	600	5.125	2.5	0.42	0	0	0	0	0	0	0	0
4	6/22	1	607	5.125	150.0	25.00	0	0	0	0	0	0	0	0
4	6/22	1	608	5.125	150.0	25.00	0	0	0	0	0	0	0	0
4	6/22	1	615	6.000	150.0	25.00	0	0	0	0	0	0	0	0
4	6/22	1	616	6.000	150.0	25.00	0	0	0	0	0	0	0	0
4	6/22	1	623	8.125	150.0	25.00	0	0	0	0	0	0	0	0
4	6/22	1	624	8.125	150.0	25.00	0	0	0	0	0	0	0	0
4	6/22	2	631	8.125	2.5	0.42	0	0	0	0	0	0	0	0
4	6/22	2	632	8.125	2.5	0.42	0	0	0	0	0	0	0	0
4	6/22	2	639	6.000	2.5	0.42	3	0	0	3	0	0	0	0
4	6/22	2	640	6.000	2.5	0.42	0	0	0	0	0	0	0	0
4	6/22	2	647	5.125	2.5	0.42	0	0	0	0	0	0	0	0
4	6/22	2	648	5.125	2.5	0.42	0	0	0	0	0	0	0	0
4	6/22	3	655	5.125	2.5	0.42	0	0	0	0	0	0	0	0
4	6/22	3	656	5.125	2.5	0.42	0	0	0	0	0	0	0	0
4	6/22	3	663	6.000	2.5	0.42	0	0	0	0	0	0	0	0
4	6/22	3	664	6.000	2.5	0.42	0	0	0	0	0	0	0	0
4	6/22	3	671	8.125	2.5	0.42	0	0	0	0	0	0	0	0
4	6/22	3	672	8.125	2.5	0.42	0	0	0	0	0	0	0	0
4	6/23	1	679	5.125	2.5	0.42	0	0	0	0	0	0	0	0
4	6/23	1	680	5.125	2.5	0.42	0	0	0	0	0	0	0	0
4	6/23	1	687	6.000	2.5	0.42	0	0	0	0	0	0	0	0
4	6/23	1	688	6.000	2.5	0.42	0	0	0	0	0	0	0	0
4	6/23	1	695	8.125	2.5	0.42	0	0	0	0	0	0	0	0
4	6/23	1	696	8.125	2.5	0.42	0	0	0	0	0	0	0	0
4	6/23	2	703	8.125	2.5	0.42	0	0	0	0	0	0	0	0
4	6/23	2	704	8.125	2.5	0.42	0	0	0	0	0	0	0	0
4	6/23	2	711	6.000	2.7	0.44	1	1	0	0	0	0	0	0
4	6/23	2	712	6.000	2.6	0.43	0	0	0	0	0	0	0	0
4	6/23	2	719	5.125	2.6	0.43	0	0	0	0	0	0	0	0
4	6/23	2	720	5.125	2.6	0.43	0	0	0	0	0	0	0	0
4	6/24	1	751	8.125	2.5	0.42	0	0	0	0	0	0	0	0
4	6/24	1	752	8.125	2.5	0.42	0	0	0	0	0	0	0	0

Appendix D.1. Drift gillnet catch by range, date, session, drift number, mesh, and species, Nushgak River sonar project, 2000.

Range[a]	Date	Session[b]	Drift Number	Mesh (in)	Fishing Time (min)	Fathom Hours	Catch							
							Total	Chinook	Sockeye	Chum	Pink	Coho	White	Other[c]
4	6/24	1	759	6.000	2.5	0.42	0	0	0	0	0	0	0	0
4	6/24	1	760	6.000	2.5	0.42	0	0	0	0	0	0	0	0
4	6/24	1	767	5.125	2.5	0.42	0	0	0	0	0	0	0	0
4	6/24	1	768	5.125	2.5	0.42	0	0	0	0	0	0	0	0
4	6/24	2	775	5.125	2.5	0.42	0	0	0	0	0	0	0	0
4	6/24	2	776	5.125	2.5	0.42	0	0	0	0	0	0	0	0
4	6/24	2	783	6.000	2.5	0.42	1	1	0	0	0	0	0	0
4	6/24	2	784	6.000	2.5	0.42	0	0	0	0	0	0	0	0
4	6/24	2	791	8.125	2.5	0.42	0	0	0	0	0	0	0	0
4	6/24	2	792	8.125	2.5	0.42	0	0	0	0	0	0	0	0
4	6/25	1	823	5.125	2.5	0.42	3	3	0	0	0	0	0	0
4	6/25	1	824	5.125	2.5	0.42	0	0	0	0	0	0	0	0
4	6/25	1	831	6.000	2.5	0.42	5	0	0	5	0	0	0	0
4	6/25	1	832	6.000	2.5	0.42	1	1	0	0	0	0	0	0
4	6/25	1	839	8.125	2.5	0.42	1	0	0	1	0	0	0	0
4	6/25	1	840	8.125	2.5	0.42	1	0	0	1	0	0	0	0
4	6/25	2	847	8.125	2.5	0.42	5	4	0	1	0	0	0	0
4	6/25	2	848	8.125	2.5	0.42	1	1	0	0	0	0	0	0
4	6/25	2	855	6.000	2.5	0.42	4	1	0	3	0	0	0	0
4	6/25	2	856	6.000	2.5	0.42	2	1	0	1	0	0	0	0
4	6/25	2	863	5.125	2.5	0.42	3	1	0	2	0	0	0	0
4	6/25	2	864	5.125	2.5	0.42	8	1	0	7	0	0	0	0
4	6/25	3	871	5.125	2.5	0.42	6	3	0	3	0	0	0	0
4	6/25	3	872	5.125	2.5	0.42	6	4	0	2	0	0	0	0
4	6/25	3	879	6.000	2.0	0.33	1	0	0	1	0	0	0	0
4	6/25	3	880	6.000	2.5	0.42	0	0	0	0	0	0	0	0
4	6/25	3	887	8.125	2.5	0.42	1	1	0	0	0	0	0	0
4	6/25	3	888	8.125	2.5	0.42	0	0	0	0	0	0	0	0
4	6/26	1	895	8.125	2.8	0.46	1	0	0	1	0	0	0	0
4	6/26	1	896	8.125	2.5	0.42	0	0	0	0	0	0	0	0
4	6/26	1	903	6.000	2.0	0.33	3	0	0	3	0	0	0	0
4	6/26	1	904	6.000	2.5	0.42	3	2	0	1	0	0	0	0
4	6/26	1	911	5.125	2.5	0.42	1	1	0	0	0	0	0	0
4	6/26	1	912	5.125	2.5	0.42	3	2	0	1	0	0	0	0
4	6/26	2	919	5.125	2.5	0.42	3	3	0	0	0	0	0	0
4	6/26	2	920	5.125	2.5	0.42	3	3	0	0	0	0	0	0
4	6/26	5	927	6.000	2.5	0.42	6	3	0	3	0	0	0	0
4	6/26	5	928	6.000	2.5	0.42	3	2	0	1	0	0	0	0
4	6/26	5	935	8.125	2.5	0.42	2	2	0	0	0	0	0	0
4	6/26	5	936	8.125	2.5	0.42	1	1	0	0	0	0	0	0
4	6/26	3	943	8.125	2.5	0.42	0	0	0	0	0	0	0	0
4	6/26	3	944	8.125	2.5	0.42	1	0	0	1	0	0	0	0
4	6/26	3	951	6.000	2.5	0.42	1	1	0	0	0	0	0	0
4	6/26	3	952	6.000	2.7	0.44	2	0	0	2	0	0	0	0
4	6/26	3	959	5.125	2.5	0.42	2	0	0	2	0	0	0	0
4	6/26	3	960	5.125	2.5	0.42	3	0	0	3	0	0	0	0
4	6/27	1	967	6.000	2.5	0.42	0	0	0	0	0	0	0	0
4	6/27	1	968	6.000	2.5	0.42	0	0	0	0	0	0	0	0
4	6/27	1	975	5.125	2.5	0.42	0	0	0	0	0	0	0	0
4	6/27	1	976	5.125	2.5	0.42	3	0	3	0	0	0	0	0
4	6/27	1	983	8.125	2.5	0.42	1	0	0	1	0	0	0	0
4	6/27	1	984	8.125	2.5	0.42	1	0	1	0	0	0	0	0
4	6/27	2	991	8.125	2.5	0.42	2	2	0	0	0	0	0	0
4	6/27	2	992	8.125	2.5	0.42	0	0	0	0	0	0	0	0
4	6/27	2	999	6.000	2.5	0.42	0	0	0	0	0	0	0	0

Appendix D.1. Drift gillnet catch by range, date, session, drift number, mesh, and species, Nushgak River sonar project, 2000.

Range[a]	Date	Session[b]	Drift Number	Mesh (in)	Fishing Time (min)	Fathom Hours	Catch							
							Total	Chinook	Sockeye	Chum	Pink	Coho	White	Other[c]
4	6/27	2	1,000	6.000	2.5	0.42	0	0	0	0	0	0	0	0
4	6/27	2	1,007	5.125	2.5	0.42	1	0	1	0	0	0	0	0
4	6/27	2	1,008	5.125	2.5	0.42	0	0	0	0	0	0	0	0
4	6/27	3	1,015	5.125	2.5	0.42	0	0	0	0	0	0	0	0
4	6/27	3	1,016	5.125	2.5	0.42	0	0	0	0	0	0	0	0
4	6/27	3	1,023	6.000	2.5	0.42	0	0	0	0	0	0	0	0
4	6/27	3	1,024	6.000	2.5	0.42	0	0	0	0	0	0	0	0
4	6/27	3	1,031	8.125	2.8	0.46	1	0	0	1	0	0	0	0
4	6/27	3	1,032	8.125	2.5	0.42	2	2	0	0	0	0	0	0
4	6/28	1	1,039	8.125	2.5	0.42	0	0	0	0	0	0	0	0
4	6/28	1	1,040	8.125	2.5	0.42	0	0	0	0	0	0	0	0
4	6/28	1	1,047	6.000	2.5	0.42	1	1	0	0	0	0	0	0
4	6/28	1	1,048	6.000	2.5	0.42	0	0	0	0	0	0	0	0
4	6/28	1	1,055	5.125	2.5	0.42	0	0	0	0	0	0	0	0
4	6/28	1	1,056	5.125	2.5	0.42	1	0	1	0	0	0	0	0
4	6/28	2	1,063	5.125	2.5	0.42	0	0	0	0	0	0	0	0
4	6/28	2	1,064	5.125	2.5	0.42	0	0	0	0	0	0	0	0
4	6/28	2	1,071	6.000	2.8	0.46	0	0	0	0	0	0	0	0
4	6/28	2	1,072	6.000	2.5	0.42	2	0	0	2	0	0	0	0
4	6/28	2	1,077	8.125	2.5	0.42	0	0	0	0	0	0	0	0
4	6/28	2	1,078	8.125	2.5	0.42	2	1	0	1	0	0	0	0
4	6/28	3	1,083	8.125	2.5	0.42	1	1	0	0	0	0	0	0
4	6/28	3	1,084	8.125	2.5	0.42	2	1	0	1	0	0	0	0
4	6/28	3	1,089	5.125	2.5	0.42	2	1	0	1	0	0	0	0
4	6/28	3	1,090	5.125	2.5	0.42	1	0	0	1	0	0	0	0
4	6/28	3	1,095	6.000	2.6	0.43	4	1	0	3	0	0	0	0
4	6/28	3	1,096	6.000	2.5	0.42	1	1	0	0	0	0	0	0
4	6/29	1	1,109	5.125	2.5	0.42	1	1	0	0	0	0	0	0
4	6/29	1	1,110	5.125	2.5	0.42	0	0	0	0	0	0	0	0
4	6/29	1	1,117	6.000	2.5	0.42	1	0	0	1	0	0	0	0
4	6/29	1	1,118	6.000	2.5	0.42	3	2	0	1	0	0	0	0
4	6/29	1	1,125	8.125	2.5	0.42	0	0	0	0	0	0	0	0
4	6/29	1	1,126	8.125	2.5	0.42	0	0	0	0	0	0	0	0
4	6/29	2	1,133	8.125	2.5	0.42	0	0	0	0	0	0	0	0
4	6/29	2	1,134	8.125	2.6	0.44	0	0	0	0	0	0	0	0
4	6/29	2	1,141	6.000	2.5	0.42	0	0	0	0	0	0	0	0
4	6/29	2	1,142	6.000	2.5	0.42	0	0	0	0	0	0	0	0
4	6/29	2	1,149	5.125	2.5	0.42	2	0	2	0	0	0	0	0
4	6/29	2	1,150	5.125	2.5	0.42	1	0	0	1	0	0	0	0
4	6/29	3	1,157	5.125	2.5	0.42	3	1	0	2	0	0	0	0
4	6/29	3	1,158	5.125	2.5	0.42	2	0	2	0	0	0	0	0
4	6/29	3	1,165	6.000	2.5	0.42	6	0	2	4	0	0	0	0
4	6/29	3	1,166	6.000	2.5	0.42	0	0	0	0	0	0	0	0
4	6/29	3	1,173	8.125	2.5	0.42	1	0	1	0	0	0	0	0
4	6/29	3	1,174	8.125	2.5	0.42	1	0	1	0	0	0	0	0
4	6/30	1	1,181	8.125	2.5	0.42	0	0	0	0	0	0	0	0
4	6/30	1	1,183	8.125	2.5	0.42	0	0	0	0	0	0	0	0
4	6/30	1	1,189	5.125	2.5	0.42	2	0	2	0	0	0	0	0
4	6/30	1	1,190	5.125	2.5	0.42	0	0	0	0	0	0	0	0
4	6/30	1	1,197	6.000	2.5	0.42	0	0	0	0	0	0	0	0
4	6/30	1	1,198	6.000	2.5	0.42	0	0	0	0	0	0	0	0
4	6/30	2	1,205	6.000	2.5	0.42	3	1	2	0	0	0	0	0
4	6/30	2	1,206	6.000	2.5	0.42	2	2	0	0	0	0	0	0
4	6/30	2	1,213	5.125	2.5	0.42	1	1	0	0	0	0	0	0
4	6/30	2	1,214	5.125	2.5	0.42	2	1	1	0	0	0	0	0

Appendix D.1. Drift gillnet catch by range, date, session, drift number, mesh, and species, Nushgak River sonar project, 2000.

							Catch							
Range[a]	Date	Session[b]	Drift Number	Mesh (in)	Fishing Time (min)	Fathom Hours	Total	Chinook	Sockeye	Chum	Pink	Coho	White	Other[c]
4	6/30	2	1,221	8.125	2.5	0.42	0	0	0	0	0	0	0	0
4	6/30	2	1,222	8.125	2.5	0.42	0	0	0	0	0	0	0	0
4	6/30	3	1,227	8.125	2.5	0.42	2	1	0	1	0	0	0	0
4	6/30	3	1,228	8.125	2.5	0.42	1	1	0	0	0	0	0	0
4	6/30	3	1,233	5.125	2.5	0.42	2	0	0	2	0	0	0	0
4	6/30	3	1,234	5.125	2.5	0.42	6	0	2	4	0	0	0	0
4	6/30	3	1,239	6.000	2.5	0.42	3	3	0	0	0	0	0	0
4	6/30	3	1,240	6.000	2.5	0.42	2	1	0	1	0	0	0	0
4	7/01	1	1,247	6.000	2.5	0.42	2	1	1	0	0	0	0	0
4	7/01	1	1,248	6.000	2.5	0.42	1	1	0	0	0	0	0	0
4	7/01	1	1,255	5.125	2.5	0.42	2	0	2	0	0	0	0	0
4	7/01	1	1,256	5.125	2.5	0.42	1	0	1	0	0	0	0	0
4	7/01	1	1,263	8.125	2.5	0.42	1	0	0	1	0	0	0	0
4	7/01	1	1,264	8.125	2.5	0.42	1	1	0	0	0	0	0	0
4	7/01	2	1,271	8.125	2.5	0.42	1	0	1	0	0	0	0	0
4	7/01	2	1,272	8.125	2.5	0.42	0	0	0	0	0	0	0	0
4	7/01	2	1,279	6.000	2.6	0.43	0	0	0	0	0	0	0	0
4	7/01	2	1,280	6.000	2.5	0.42	3	2	0	1	0	0	0	0
4	7/01	2	1,287	5.125	2.7	0.45	1	0	1	0	0	0	0	0
4	7/01	2	1,288	5.125	2.7	0.45	1	1	0	0	0	0	0	0
4	7/01	3	1,295	5.125	2.5	0.42	1	0	0	1	0	0	0	0
4	7/01	3	1,296	5.125	2.5	0.42	2	2	0	0	0	0	0	0
4	7/01	3	1,303	6.000	2.5	0.42	2	0	2	0	0	0	0	0
4	7/01	3	1,304	6.000	2.5	0.42	2	0	2	0	0	0	0	0
4	7/01	3	1,311	8.125	2.5	0.42	1	0	1	0	0	0	0	0
4	7/01	3	1,312	8.125	2.5	0.42	1	1	0	0	0	0	0	0
4	7/02	1	1,319	8.125	2.5	0.42	0	0	0	0	0	0	0	0
4	7/02	1	1,320	8.125	2.5	0.42	0	0	0	0	0	0	0	0
4	7/02	1	1,327	5.125	2.5	0.42	1	1	0	0	0	0	0	0
4	7/02	1	1,328	5.125	2.5	0.42	0	0	0	0	0	0	0	0
4	7/02	2	1,333	6.000	2.5	0.42	0	0	0	0	0	0	0	0
4	7/02	2	1,334	6.000	2.5	0.42	0	0	0	0	0	0	0	0
4	7/02	1	1,335	6.000	2.5	0.42	0	0	0	0	0	0	0	0
4	7/02	1	1,336	6.000	2.5	0.42	1	0	1	0	0	0	0	0
4	7/02	2	1,341	5.125	2.5	0.42	0	0	0	0	0	0	0	0
4	7/02	2	1,342	5.125	2.5	0.42	0	0	0	0	0	0	0	0
4	7/02	2	1,349	8.125	2.5	0.42	0	0	0	0	0	0	0	0
4	7/02	2	1,350	8.125	2.5	0.42	0	0	0	0	0	0	0	0
4	7/02	3	1,357	8.125	2.5	0.42	0	0	0	0	0	0	0	0
4	7/02	3	1,358	8.125	2.5	0.42	1	0	0	1	0	0	0	0
4	7/02	3	1,365	5.125	2.5	0.42	0	0	0	0	0	0	0	0
4	7/02	3	1,366	5.125	2.5	0.42	0	0	0	0	0	0	0	0
4	7/02	3	1,373	6.000	2.5	0.42	1	0	0	1	0	0	0	0
4	7/02	3	1,374	6.000	2.5	0.42	1	0	1	0	0	0	0	0
4	7/03	1	1,381	6.000	2.5	0.42	0	0	0	0	0	0	0	0
4	7/03	1	1,382	6.000	2.5	0.42	2	1	1	0	0	0	0	0
4	7/03	1	1,389	5.125	2.5	0.42	0	0	0	0	0	0	0	0
4	7/03	1	1,390	5.125	2.5	0.42	0	0	0	0	0	0	0	0
4	7/03	1	1,397	8.125	2.5	0.42	1	0	1	0	0	0	0	0
4	7/03	1	1,398	8.125	2.5	0.42	0	0	0	0	0	0	0	0
4	7/03	2	1,405	8.125	2.5	0.42	0	0	0	0	0	0	0	0
4	7/03	2	1,406	8.125	2.5	0.42	1	0	1	0	0	0	0	0
4	7/03	2	1,413	5.125	2.5	0.42	1	0	1	0	0	0	0	0
4	7/03	2	1,414	5.125	2.5	0.42	0	0	0	0	0	0	0	0
4	7/03	2	1,421	6.000	2.6	0.43	0	0	0	0	0	0	0	0

Appendix D.1. Drift gillnet catch by range, date, session, drift number, mesh, and species, Nushgak River sonar project, 2000.

Range[a]	Date	Session[b]	Drift Number	Mesh (in)	Fishing Time (min)	Fathom Hours	Catch							
							Total	Chinook	Sockeye	Chum	Pink	Coho	White	Other[c]
4	7/03	2	1,422	6.000	2.5	0.42	3	3	0	0	0	0	0	0
4	7/03	3	1,429	6.000	2.5	0.42	1	0	1	0	0	0	0	0
4	7/03	3	1,430	6.000	2.5	0.42	1	1	0	0	0	0	0	0
4	7/03	3	1,437	5.125	2.5	0.42	1	0	1	0	0	0	0	0
4	7/03	3	1,438	5.125	2.5	0.42	1	0	1	0	0	0	0	0
4	7/03	3	1,445	8.125	2.5	0.42	1	0	1	0	0	0	0	0
4	7/03	3	1,446	8.125	2.5	0.42	0	0	0	0	0	0	0	0
4	7/04	1	1,353	8.125	2.5	0.42	0	0	0	0	0	0	0	0
4	7/04	1	1,354	8.125	2.5	0.42	1	1	0	0	0	0	0	0
4	7/04	1	1,361	5.125	2.5	0.42	0	0	0	0	0	0	0	0
4	7/04	1	1,362	5.125	2.5	0.42	1	0	1	0	0	0	0	0
4	7/04	1	1,369	6.000	2.5	0.42	0	0	0	0	0	0	0	0
4	7/04	1	1,370	6.000	2.5	0.42	1	1	0	0	0	0	0	0
4	7/04	2	1,477	6.000	2.5	0.42	0	0	0	0	0	0	0	0
4	7/04	2	1,478	6.000	2.5	0.42	0	0	0	0	0	0	0	0
4	7/04	2	1,485	5.125	2.5	0.42	0	0	0	0	0	0	0	0
4	7/04	2	1,486	5.125	2.5	0.42	0	0	0	0	0	0	0	0
4	7/04	2	1,493	8.125	2.5	0.42	0	0	0	0	0	0	0	0
4	7/04	2	1,494	8.125	2.8	0.46	0	0	0	0	0	0	0	0
4	7/04	3	1,501	8.125	2.6	0.43	1	0	1	0	0	0	0	0
4	7/04	3	1,502	8.125	2.5	0.42	0	0	0	0	0	0	0	0
4	7/04	3	1,509	5.125	2.5	0.42	2	1	0	1	0	0	0	0
4	7/04	3	1,510	5.125	2.5	0.42	0	0	0	0	0	0	0	0
4	7/04	3	1,517	6.000	2.5	0.42	1	0	1	0	0	0	0	0
4	7/04	3	1,518	6.000	2.5	0.42	1	0	1	0	0	0	0	0
4	7/05	1	1,525	6.000	2.5	0.42	1	1	0	0	0	0	0	0
4	7/05	1	1,526	6.000	2.5	0.42	1	1	0	0	0	0	0	0
4	7/05	1	1,533	5.125	2.5	0.42	2	0	1	1	0	0	0	0
4	7/05	1	1,534	5.125	2.6	0.43	0	0	0	0	0	0	0	0
4	7/05	1	1,541	8.125	2.5	0.42	0	0	0	0	0	0	0	0
4	7/05	1	1,542	8.125	2.5	0.42	0	0	0	0	0	0	0	0
4	7/05	2	1,549	8.125	2.5	0.42	2	2	0	0	0	0	0	0
4	7/05	2	1,550	8.125	2.5	0.42	1	0	0	1	0	0	0	0
4	7/05	2	1,557	5.125	2.5	0.42	1	1	0	0	0	0	0	0
4	7/05	2	1,558	5.125	2.5	0.42	1	1	0	0	0	0	0	0
4	7/05	2	1,565	6.000	2.6	0.43	0	0	0	0	0	0	0	0
4	7/05	2	1,566	6.000	2.6	0.43	0	0	0	0	0	0	0	0
4	7/05	3	1,573	6.000	2.5	0.42	1	0	1	0	0	0	0	0
4	7/05	3	1,574	6.000	2.5	0.42	0	0	0	0	0	0	0	0
4	7/05	3	1,581	5.125	2.5	0.42	2	2	0	0	0	0	0	0
4	7/05	3	1,582	5.125	2.5	0.42	0	0	0	0	0	0	0	0
4	7/05	3	1,589	8.125	2.5	0.42	0	0	0	0	0	0	0	0
4	7/05	3	1,590	8.125	2.5	0.42	0	0	0	0	0	0	0	0
4	7/06	1	1,597	8.125	2.5	0.42	0	0	0	0	0	0	0	0
4	7/06	1	1,598	8.125	2.5	0.42	0	0	0	0	0	0	0	0
4	7/06	1	1,605	5.125	2.5	0.42	0	0	0	0	0	0	0	0
4	7/06	1	1,606	5.125	2.6	0.43	4	0	4	0	0	0	0	0
4	7/06	1	1,613	6.000	2.5	0.42	0	0	0	0	0	0	0	0
4	7/06	1	1,614	6.000	2.5	0.42	0	0	0	0	0	0	0	0
4	7/06	2	1,621	6.000	2.6	0.44	0	0	0	0	0	0	0	0
4	7/06	2	1,622	6.000	2.5	0.42	0	0	0	0	0	0	0	0
4	7/06	2	1,629	5.125	2.5	0.42	0	0	0	0	0	0	0	0
4	7/06	2	1,630	5.125	2.5	0.42	0	0	0	0	0	0	0	0
4	7/06	2	1,637	8.125	2.5	0.42	0	0	0	0	0	0	0	0
4	7/06	2	1,638	8.125	2.6	0.43	0	0	0	0	0	0	0	0

Appendix D.1. Drift gillnet catch by range, date, session, drift number, mesh, and species, Nushgak River sonar project, 2000.

							Catch							
Range[a]	Date	Session[b]	Drift Number	Mesh (in)	Fishing Time (min)	Fathom Hours	Total	Chinook	Sockeye	Chum	Pink	Coho	White	Other[c]
4	7/06	3	1,645	8.125	2.5	0.42	1	1	0	0	0	0	0	0
4	7/06	3	1,646	8.125	2.8	0.46	0	0	0	0	0	0	0	0
4	7/06	3	1,653	5.125	2.5	0.42	1	1	0	0	0	0	0	0
4	7/06	3	1,654	5.125	2.5	0.42	0	0	0	0	0	0	0	0
4	7/06	3	1,661	6.000	2.5	0.42	0	0	0	0	0	0	0	0
4	7/06	3	1,662	6.000	2.5	0.42	0	0	0	0	0	0	0	0
4	7/07	1	1,669	5.125	2.5	0.42	1	1	0	0	0	0	0	0
4	7/07	1	1,670	5.125	2.5	0.42	0	0	0	0	0	0	0	0
4	7/07	1	1,677	6.000	2.5	0.42	1	0	1	0	0	0	0	0
4	7/07	1	1,678	6.000	2.5	0.42	0	0	0	0	0	0	0	0
4	7/07	1	1,685	8.125	2.5	0.42	0	0	0	0	0	0	0	0
4	7/07	1	1,686	8.125	2.5	0.42	0	0	0	0	0	0	0	0
4	7/07	3	1,717	6.000	2.5	0.42	0	0	0	0	0	0	0	0
4	7/07	3	1,718	6.000	2.5	0.42	0	0	0	0	0	0	0	0
4	7/07	3	1,725	8.125	2.5	0.42	0	0	0	0	0	0	0	0
4	7/07	3	1,726	8.125	2.5	0.42	1	1	0	0	0	0	0	0
4	7/07	3	1,733	5.125	2.6	0.44	2	1	0	1	0	0	0	0
4	7/07	3	1,734	5.125	2.5	0.42	0	0	0	0	0	0	0	0
4	7/08	1	1,741	5.125	2.5	0.42	0	0	0	0	0	0	0	0
4	7/08	1	1,742	5.125	2.5	0.42	0	0	0	0	0	0	0	0
4	7/08	1	1,749	6.000	2.5	0.42	0	0	0	0	0	0	0	0
4	7/08	1	1,750	6.000	2.5	0.42	0	0	0	0	0	0	0	0
4	7/08	1	1,757	8.125	2.5	0.42	0	0	0	0	0	0	0	0
4	7/08	1	1,758	8.125	2.5	0.42	0	0	0	0	0	0	0	0
4	7/08	2	1,765	8.125	2.5	0.42	0	0	0	0	0	0	0	0
4	7/08	2	1,766	8.125	2.5	0.42	0	0	0	0	0	0	0	0
4	7/08	2	1,773	5.125	2.5	0.42	0	0	0	0	0	0	0	0
4	7/08	2	1,774	5.125	2.5	0.42	0	0	0	0	0	0	0	0
4	7/08	2	1,781	6.000	2.5	0.42	0	0	0	0	0	0	0	0
4	7/08	2	1,782	6.000	2.5	0.42	0	0	0	0	0	0	0	0
4	7/08	3	1,789	6.000	2.5	0.42	1	0	1	0	0	0	0	0
4	7/08	3	1,790	6.000	2.5	0.42	0	0	0	0	0	0	0	0
4	7/08	3	1,797	5.125	2.5	0.42	3	0	3	0	0	0	0	0
4	7/08	3	1,798	5.125	2.5	0.42	0	0	0	0	0	0	0	0
4	7/08	3	1,805	8.125	2.5	0.42	0	0	0	0	0	0	0	0
4	7/08	3	1,806	8.125	2.5	0.42	0	0	0	0	0	0	0	0
4	7/09	1	1,813	8.125	2.5	0.42	0	0	0	0	0	0	0	0
4	7/09	1	1,814	8.125	2.5	0.42	0	0	0	0	0	0	0	0
4	7/09	1	1,821	6.000	2.5	0.42	0	0	0	0	0	0	0	0
4	7/09	1	1,822	6.000	2.5	0.42	0	0	0	0	0	0	0	0
4	7/09	1	1,829	5.125	2.5	0.42	0	0	0	0	0	0	0	0
4	7/09	1	1,830	5.125	2.5	0.42	0	0	0	0	0	0	0	0
4	7/09	2	1,837	5.125	2.5	0.42	0	0	0	0	0	0	0	0
4	7/09	2	1,838	5.125	2.5	0.42	0	0	0	0	0	0	0	0
4	7/09	2	1,845	8.125	2.5	0.42	0	0	0	0	0	0	0	0
4	7/09	2	1,846	8.125	2.5	0.42	0	0	0	0	0	0	0	0
4	7/09	2	1,853	6.000	2.5	0.42	0	0	0	0	0	0	0	0
4	7/09	2	1,854	6.000	2.5	0.42	0	0	0	0	0	0	0	0
4	7/09	3	1,861	6.000	2.5	0.42	0	0	0	0	0	0	0	0
4	7/09	3	1,862	6.000	2.5	0.42	0	0	0	0	0	0	0	0
4	7/09	3	1,869	5.125	2.5	0.42	0	0	0	0	0	0	0	0
4	7/09	3	1,870	5.125	2.5	0.42	1	0	1	0	0	0	0	0
4	7/09	3	1,877	8.125	2.5	0.42	0	0	0	0	0	0	0	0
4	7/10	1	1,885	8.125	2.5	0.42	0	0	0	0	0	0	0	0
4	7/10	1	1,886	8.125	2.5	0.42	0	0	0	0	0	0	0	0

Appendix D.1. Drift gillnet catch by range, date, session, drift number, mesh, and species, Nushgak River sonar project, 2000.

Range[a]	Date	Session[b]	Drift Number	Mesh (in)	Fishing Time (min)	Fathom Hours	Catch							
							Total	Chinook	Sockeye	Chum	Pink	Coho	White	Other[c]
4	7/10	1	1,893	5.125	2.5	0.42	0	0	0	0	0	0	0	0
4	7/10	1	1,894	5.125	2.6	0.43	0	0	0	0	0	0	0	0
4	7/10	1	1,901	6.000	2.5	0.42	3	0	2	1	0	0	0	0
4	7/10	1	1,902	6.000	2.5	0.42	0	0	0	0	0	0	0	0
4	7/10	2	1,909	6.000	2.5	0.42	0	0	0	0	0	0	0	0
4	7/10	2	1,910	6.000	2.5	0.42	0	0	0	0	0	0	0	0
4	7/10	2	1,917	5.125	2.5	0.42	1	0	1	0	0	0	0	0
4	7/10	2	1,918	5.125	2.5	0.42	2	1	0	1	0	0	0	0
4	7/10	2	1,925	8.125	2.5	0.42	0	0	0	0	0	0	0	0
4	7/10	2	1,926	8.125	2.5	0.42	0	0	0	0	0	0	0	0
4	7/10	3	1,933	8.125	2.5	0.42	0	0	0	0	0	0	0	0
4	7/10	3	1,934	8.125	2.5	0.42	0	0	0	0	0	0	0	0
4	7/10	3	1,941	5.125	2.5	0.42	0	0	0	0	0	0	0	0
4	7/10	3	1,942	5.125	2.5	0.42	0	0	0	0	0	0	0	0
4	7/10	3	1,949	6.000	2.5	0.42	1	0	0	1	0	0	0	0
4	7/10	3	1,950	6.000	2.5	0.42	0	0	0	0	0	0	0	0
4	7/11	1	1,957	5.125	2.5	0.42	0	0	0	0	0	0	0	0
4	7/11	1	1,958	5.125	2.5	0.42	0	0	0	0	0	0	0	0
4	7/11	1	1,965	6.000	2.5	0.42	2	0	2	0	0	0	0	0
4	7/11	1	1,966	6.000	2.5	0.42	0	0	0	0	0	0	0	0
4	7/11	1	1,973	8.125	2.5	0.42	0	0	0	0	0	0	0	0
4	7/11	1	1,974	8.125	2.5	0.42	0	0	0	0	0	0	0	0
4	7/11	2	1,981	8.125	2.5	0.42	0	0	0	0	0	0	0	0
4	7/11	2	1,982	8.125	2.5	0.42	0	0	0	0	0	0	0	0
4	7/11	2	1,989	5.125	2.5	0.42	0	0	0	0	0	0	0	0
4	7/11	2	1,990	5.125	2.5	0.42	0	0	0	0	0	0	0	0
4	7/11	2	1,997	6.000	2.5	0.42	0	0	0	0	0	0	0	0
4	7/11	2	1,998	6.000	2.5	0.42	0	0	0	0	0	0	0	0
4	7/12	1	2,029	8.125	2.5	0.42	0	0	0	0	0	0	0	0
4	7/12	1	2,030	8.125	2.5	0.42	0	0	0	0	0	0	0	0
4	7/12	1	2,037	5.125	2.5	0.42	0	0	0	0	0	0	0	0
4	7/12	1	2,038	5.125	2.5	0.42	0	0	0	0	0	0	0	0
4	7/12	1	2,045	6.000	2.5	0.42	0	0	0	0	0	0	0	0
4	7/12	1	2,046	6.000	2.5	0.42	0	0	0	0	0	0	0	0
4	7/12	2	2,053	6.000	2.5	0.42	0	0	0	0	0	0	0	0
4	7/12	2	2,054	6.000	2.5	0.42	0	0	0	0	0	0	0	0
4	7/12	2	2,061	5.125	2.5	0.42	0	0	0	0	0	0	0	0
4	7/12	2	2,062	5.125	2.5	0.42	0	0	0	0	0	0	0	0
4	7/12	2	2,069	8.125	2.5	0.42	0	0	0	0	0	0	0	0
4	7/12	2	2,070	8.125	2.5	0.42	0	0	0	0	0	0	0	0
4	7/12	3	2,077	8.125	2.5	0.42	0	0	0	0	0	0	0	0
4	7/12	3	2,078	8.125	2.5	0.42	0	0	0	0	0	0	0	0
4	7/12	3	2,085	5.125	2.5	0.42	0	0	0	0	0	0	0	0
4	7/12	3	2,086	5.125	2.5	0.42	1	0	1	0	0	0	0	0
4	7/12	3	2,093	6.000	2.5	0.42	0	0	0	0	0	0	0	0
4	7/12	3	2,094	6.000	2.5	0.42	0	0	0	0	0	0	0	0
4	7/13	1	2,101	5.125	2.3	0.39	8	0	8	0	0	0	0	0
4	7/13	1	2,102	5.125	2.5	0.42	0	0	0	0	0	0	0	0
4	7/13	1	2,109	6.000	2.5	0.42	0	0	0	0	0	0	0	0
4	7/13	1	2,110	6.000	2.5	0.42	0	0	0	0	0	0	0	0
4	7/13	1	2,117	8.125	2.5	0.42	0	0	0	0	0	0	0	0
4	7/13	1	2,118	8.125	2.5	0.42	0	0	0	0	0	0	0	0
4	7/13	2	2,125	8.125	2.5	0.42	1	0	1	0	0	0	0	0
4	7/13	2	2,126	8.125	2.5	0.42	0	0	0	0	0	0	0	0
4	7/13	2	2,133	5.125	2.5	0.42	4	0	4	0	0	0	0	0

Appendix D.1. Drift gillnet catch by range, date, session, drift number, mesh, and species, Nushgak River sonar project, 2000.

							Catch							
Range[a]	Date	Session[b]	Drift Number	Mesh (in)	Fishing Time (min)	Fathom Hours	Total	Chinook	Sockeye	Chum	Pink	Coho	White	Other[c]
4	7/13	2	2,134	5.125	2.5	0.42	0	0	0	0	0	0	0	0
4	7/13	2	2,139	6.000	2.5	0.42	3	0	1	2	0	0	0	0
4	7/13	2	2,140	6.000	2.5	0.42	4	0	2	2	0	0	0	0
4	7/13	3	2,145	6.000	2.5	0.42	0	0	0	0	0	0	0	0
4	7/13	3	2,146	6.000	2.5	0.42	1	1	0	0	0	0	0	0
4	7/13	3	2,151	5.125	2.5	0.42	0	0	0	0	0	0	0	0
4	7/13	3	2,152	5.125	2.5	0.42	0	0	0	0	0	0	0	0
4	7/13	3	2,157	8.125	2.5	0.42	0	0	0	0	0	0	0	0
4	7/13	3	2,158	8.125	2.5	0.42	1	1	0	0	0	0	0	0
4	7/14	1	2,165	8.125	2.5	0.42	1	1	0	0	0	0	0	0
4	7/14	1	2,166	8.125	2.5	0.42	0	0	0	0	0	0	0	0
4	7/14	1	2,173	5.125	2.5	0.42	2	0	1	1	0	0	0	0
4	7/14	1	2,174	5.125	2.5	0.42	2	0	2	0	0	0	0	0
4	7/14	1	2,181	6.000	2.5	0.42	0	0	0	0	0	0	0	0
4	7/14	1	2,182	6.000	2.4	0.40	1	1	0	0	0	0	0	0
4	7/14	2	2,189	6.000	2.5	0.42	3	0	2	1	0	0	0	0
4	7/14	2	2,190	6.000	2.5	0.42	0	0	0	0	0	0	0	0
4	7/14	2	2,197	5.125	2.5	0.42	0	0	0	0	0	0	0	0
4	7/14	2	2,198	5.125	2.5	0.42	2	0	2	0	0	0	0	0
4	7/14	2	2,205	8.125	2.5	0.42	0	0	0	0	0	0	0	0
4	7/14	2	2,206	8.125	2.8	0.47	0	0	0	0	0	0	0	0
4	7/14	3	2,213	8.125	2.5	0.42	0	0	0	0	0	0	0	0
4	7/14	3	2,214	8.125	2.5	0.42	0	0	0	0	0	0	0	0
4	7/14	3	2,221	5.125	2.5	0.42	4	0	3	1	0	0	0	0
4	7/14	3	2,222	5.125	2.5	0.42	0	0	0	0	0	0	0	0
4	7/14	3	2,229	6.000	2.5	0.42	0	0	0	0	0	0	0	0
4	7/14	3	2,230	6.000	2.5	0.42	0	0	0	0	0	0	0	0
4	7/15	1	2,237	5.125	2.5	0.42	0	0	0	0	0	0	0	0
4	7/15	1	2,238	5.125	2.5	0.42	0	0	0	0	0	0	0	0
4	7/15	1	2,246	6.000	2.5	0.42	1	1	0	0	0	0	0	0
4	7/15	1	2,253	8.125	2.6	0.43	0	0	0	0	0	0	0	0
4	7/15	1	2,254	8.125	2.2	0.36	0	0	0	0	0	0	0	0
4	7/15	3	2,261	8.125	2.5	0.42	0	0	0	0	0	0	0	0
4	7/15	3	2,262	8.125	2.5	0.42	0	0	0	0	0	0	0	0
4	7/15	3	2,269	6.000	2.5	0.42	0	0	0	0	0	0	0	0
4	7/15	3	2,270	6.000	2.5	0.42	0	0	0	0	0	0	0	0
4	7/15	3	2,277	5.125	2.5	0.42	3	0	1	1	0	1	0	0
4	7/15	3	2,278	5.125	2.5	0.42	1	0	0	1	0	0	0	0
4	7/16	1	2,285	5.125	2.5	0.42	4	0	4	0	0	0	0	0
4	7/16	1	2,286	5.125	2.5	0.42	0	0	0	0	0	0	0	0
4	7/16	1	2,293	6.000	2.5	0.42	0	0	0	0	0	0	0	0
4	7/16	1	2,294	6.000	2.5	0.42	0	0	0	0	0	0	0	0
4	7/16	1	2,301	8.125	2.5	0.42	0	0	0	0	0	0	0	0
4	7/16	1	2,302	8.125	2.5	0.42	0	0	0	0	0	0	0	0
4	7/16	3	2,309	8.125	2.5	0.42	0	0	0	0	0	0	0	0
4	7/16	3	2,310	8.125	2.5	0.42	1	1	0	0	0	0	0	0
4	7/16	3	2,317	5.125	2.5	0.42	1	0	1	0	0	0	0	0
4	7/16	3	2,318	5.125	2.5	0.42	1	1	0	0	0	0	0	0
4	7/16	3	2,325	6.000	2.5	0.42	2	0	2	0	0	0	0	0
4	7/16	3	2,326	6.000	2.5	0.42	0	0	0	0	0	0	0	0
4	7/17	1	2,333	6.000	2.5	0.42	0	0	0	0	0	0	0	0
4	7/17	1	2,334	6.000	2.5	0.42	0	0	0	0	0	0	0	0
4	7/17	1	2,341	5.125	2.5	0.42	0	0	0	0	0	0	0	0
4	7/17	1	2,342	5.125	2.5	0.42	1	0	1	0	0	0	0	0
4	7/17	1	2,349	8.125	2.5	0.42	0	0	0	0	0	0	0	0

Appendix D.1. Drift gillnet catch by range, date, session, drift number, mesh, and species, Nushgak River sonar project, 2000.

Range[a]	Date	Session[b]	Drift Number	Mesh (in)	Fishing Time (min)	Fathom Hours	Catch							
							Total	Chinook	Sockeye	Chum	Pink	Coho	White	Other[c]
4	7/17	1	2,350	8.125	2.5	0.42	0	0	0	0	0	0	0	0
4	7/17	3	2,357	8.125	2.5	0.42	0	0	0	0	0	0	0	0
4	7/17	3	2,358	8.125	2.5	0.42	0	0	0	0	0	0	0	0
4	7/17	3	2,365	5.125	2.5	0.42	1	0	0	1	0	0	0	0
4	7/17	3	2,366	5.125	2.5	0.42	2	0	1	1	0	0	0	0
4	7/17	3	2,373	6.000	2.5	0.42	0	0	0	0	0	0	0	0
4	7/17	3	2,374	6.000	2.5	0.42	0	0	0	0	0	0	0	0
4	7/18	1	2,381	6.000	2.5	0.42	1	0	0	1	0	0	0	0
4	7/18	1	2,382	6.000	2.5	0.42	0	0	0	0	0	0	0	0
4	7/18	1	2,389	5.125	2.5	0.42	0	0	0	0	0	0	0	0
4	7/18	1	2,390	5.125	2.5	0.42	0	0	0	0	0	0	0	0
4	7/18	1	2,397	8.125	2.5	0.42	0	0	0	0	0	0	0	0
4	7/18	1	2,398	8.125	2.5	0.42	0	0	0	0	0	0	0	0
4	7/18	3	2,405	8.125	2.5	0.42	0	0	0	0	0	0	0	0
4	7/18	3	2,406	8.125	2.5	0.42	0	0	0	0	0	0	0	0
4	7/18	3	2,413	6.000	2.5	0.42	0	0	0	0	0	0	0	0
4	7/18	3	2,414	6.000	2.5	0.42	0	0	0	0	0	0	0	0
4	7/18	3	2,421	5.125	2.5	0.42	0	0	0	0	0	0	0	0
4	7/18	3	2,422	5.125	2.5	0.42	0	0	0	0	0	0	0	0
4	7/19	1	2,429	5.125	2.5	0.42	0	0	0	0	0	0	0	0
4	7/19	1	2,430	5.125	2.5	0.42	0	0	0	0	0	0	0	0
4	7/19	1	2,437	6.000	2.5	0.42	0	0	0	0	0	0	0	0
4	7/19	1	2,438	6.000	2.5	0.42	0	0	0	0	0	0	0	0
4	7/19	1	2,445	8.125	2.5	0.42	0	0	0	0	0	0	0	0
4	7/19	1	2,446	8.125	2.5	0.42	0	0	0	0	0	0	0	0
4	7/19	3	2,453	8.125	2.5	0.42	0	0	0	0	0	0	0	0
4	7/19	3	2,454	8.125	2.5	0.42	0	0	0	0	0	0	0	0
4	7/19	3	2,461	5.125	2.5	0.42	0	0	0	0	0	0	0	0
4	7/19	3	2,462	5.125	2.5	0.42	0	0	0	0	0	0	0	0
4	7/19	3	2,469	6.000	2.5	0.42	0	0	0	0	0	0	0	0
4	7/19	3	2,470	6.000	2.5	0.42	0	0	0	0	0	0	0	0
4	7/20	1	2,477	6.000	2.5	0.42	0	0	0	0	0	0	0	0
4	7/20	1	2,478	6.000	2.5	0.42	0	0	0	0	0	0	0	0
4	7/20	1	2,485	5.125	2.5	0.42	0	0	0	0	0	0	0	0
4	7/20	1	2,486	5.125	2.5	0.42	0	0	0	0	0	0	0	0
4	7/20	3	2,493	5.125	2.5	0.42	0	0	0	0	0	0	0	0
4	7/20	3	2,494	5.125	2.5	0.42	0	0	0	0	0	0	0	0
4	7/20	3	2,501	6.000	2.5	0.42	0	0	0	0	0	0	0	0
4	7/20	3	2,502	6.000	2.5	0.42	0	0	0	0	0	0	0	0
4	7/20	3	2,509	8.125	2.5	0.42	0	0	0	0	0	0	0	0
4	7/20	3	2,510	8.125	2.7	0.44	0	0	0	0	0	0	0	0
4	7/21	1	2,517	8.125	2.5	0.42	0	0	0	0	0	0	0	0
4	7/21	1	2,518	8.125	2.5	0.42	0	0	0	0	0	0	0	0
4	7/21	1	2,525	5.125	2.5	0.42	0	0	0	0	0	0	0	0
4	7/21	1	2,526	5.125	2.5	0.42	0	0	0	0	0	0	0	0
4	7/21	1	2,533	6.000	2.5	0.42	0	0	0	0	0	0	0	0
4	7/21	1	2,534	6.000	2.5	0.42	0	0	0	0	0	0	0	0
4	7/21	3	2,541	6.000	2.5	0.42	1	0	1	0	0	0	0	0
4	7/21	3	2,542	6.000	2.5	0.42	0	0	0	0	0	0	0	0
4	7/21	3	2,549	5.125	2.5	0.42	0	0	0	0	0	0	0	0
4	7/21	3	2,550	5.125	2.5	0.42	0	0	0	0	0	0	0	0
4	7/21	3	2,557	8.125	2.5	0.42	0	0	0	0	0	0	0	0
4	7/21	3	2,558	8.125	2.5	0.42	0	0	0	0	0	0	0	0
4	7/22	1	2,565	8.125	2.5	0.42	0	0	0	0	0	0	0	0
4	7/22	1	2,566	8.125	2.5	0.42	0	0	0	0	0	0	0	0

Appendix D.1. Drift gillnet catch by range, date, session, drift number, mesh, and species, Nushgak River sonar project, 2000.

Range[a]	Date	Session[b]	Drift Number	Mesh (in)	Fishing Time (min)	Fathom Hours	Catch							
							Total	Chinook	Sockeye	Chum	Pink	Coho	White	Other[c]
4	7/22	1	2,573	5.125	2.5	0.42	0	0	0	0	0	0	0	0
4	7/22	1	2,574	5.125	2.5	0.42	0	0	0	0	0	0	0	0
4	7/22	1	2,581	6.000	2.5	0.42	0	0	0	0	0	0	0	0
4	7/22	1	2,582	6.000	2.5	0.42	0	0	0	0	0	0	0	0
4	7/23	1	2,613	8.125	2.5	0.42	0	0	0	0	0	0	0	0
4	7/23	1	2,614	8.125	2.5	0.42	0	0	0	0	0	0	0	0
4	7/23	1	2,621	5.125	2.8	0.46	0	0	0	0	0	0	0	0
4	7/23	1	2,622	5.125	2.5	0.42	1	0	1	0	0	0	0	0
4	7/23	1	2,629	6.000	2.5	0.42	0	0	0	0	0	0	0	0
4	7/23	1	2,630	6.000	2.5	0.42	0	0	0	0	0	0	0	0
4	7/23	3	2,637	6.000	2.5	0.42	0	0	0	0	0	0	0	0
4	7/23	3	2,638	6.000	2.5	0.42	0	0	0	0	0	0	0	0
4	7/23	3	2,645	5.125	2.5	0.42	1	0	0	0	1	0	0	0
4	7/23	3	2,646	5.125	2.5	0.42	0	0	0	0	0	0	0	0
4	7/23	3	2,653	8.125	2.5	0.42	0	0	0	0	0	0	0	0
4	7/23	3	2,654	8.125	2.5	0.42	0	0	0	0	0	0	0	0
4	7/24	1	2,661	8.125	2.5	0.42	0	0	0	0	0	0	0	0
4	7/24	1	2,662	8.125	2.5	0.42	0	0	0	0	0	0	0	0
4	7/24	1	2,669	5.125	2.5	0.42	0	0	0	0	0	0	0	0
4	7/24	1	2,670	5.125	2.5	0.42	0	0	0	0	0	0	0	0
4	7/24	1	2,677	6.000	2.5	0.42	0	0	0	0	0	0	0	0
4	7/24	1	2,678	6.000	2.5	0.42	0	0	0	0	0	0	0	0
4	7/24	3	2,685	6.000	2.5	0.42	0	0	0	0	0	0	0	0
4	7/24	3	2,686	6.000	2.5	0.42	0	0	0	0	0	0	0	0
4	7/24	3	2,693	5.125	2.5	0.42	0	0	0	0	0	0	0	0
4	7/24	3	2,694	5.125	2.5	0.42	0	0	0	0	0	0	0	0
4	7/24	3	2,701	8.125	2.5	0.42	0	0	0	0	0	0	0	0
4	7/24	3	2,702	8.125	2.5	0.42	0	0	0	0	0	0	0	0
4	7/25	1	2,709	4.500	2.5	0.42	0	0	0	0	0	0	0	0
4	7/25	1	2,710	4.500	2.8	0.46	0	0	0	0	0	0	0	0
4	7/25	1	2,717	5.125	2.5	0.42	0	0	0	0	0	0	0	0
4	7/25	1	2,718	5.125	2.5	0.42	0	0	0	0	0	0	0	0
4	7/25	1	2,725	6.000	2.5	0.42	0	0	0	0	0	0	0	0
4	7/25	1	2,726	6.000	2.5	0.42	0	0	0	0	0	0	0	0
4	7/25	3	2,733	6.000	2.5	0.42	1	0	1	0	0	0	0	0
4	7/25	3	2,734	6.000	2.6	0.43	0	0	0	0	0	0	0	0
4	7/25	3	2,741	5.125	2.5	0.42	0	0	0	0	0	0	0	0
4	7/25	3	2,742	5.125	2.5	0.42	0	0	0	0	0	0	0	0
4	7/25	3	2,749	4.500	2.5	0.42	0	0	0	0	0	0	0	0
4	7/25	3	2,750	4.500	2.5	0.42	0	0	0	0	0	0	0	0
4	7/26	1	2,757	4.500	2.5	0.42	0	0	0	0	0	0	0	0
4	7/26	1	2,758	4.500	2.5	0.42	0	0	0	0	0	0	0	0
4	7/26	1	2,765	5.125	2.5	0.42	0	0	0	0	0	0	0	0
4	7/26	1	2,766	5.125	2.5	0.42	0	0	0	0	0	0	0	0
4	7/26	1	2,773	6.000	2.5	0.42	0	0	0	0	0	0	0	0
4	7/26	1	2,774	6.000	2.5	0.42	0	0	0	0	0	0	0	0
4	7/26	3	2,781	6.000	2.5	0.42	0	0	0	0	0	0	0	0
4	7/26	3	2,782	6.000	2.5	0.42	0	0	0	0	0	0	0	0
4	7/26	3	2,789	5.125	2.5	0.42	0	0	0	0	0	0	0	0
4	7/26	3	2,790	5.125	2.5	0.42	0	0	0	0	0	0	0	0
4	7/26	3	2,797	4.500	2.5	0.42	0	0	0	0	0	0	0	0
4	7/26	3	2,798	4.500	2.5	0.42	0	0	0	0	0	0	0	0
4	7/27	1	2,805	4.500	2.5	0.42	0	0	0	0	0	0	0	0
4	7/27	1	2,806	4.500	2.5	0.42	0	0	0	0	0	0	0	0
4	7/27	1	2,813	5.125	2.5	0.42	0	0	0	0	0	0	0	0

Appendix D.1. Drift gillnet catch by range, date, session, drift number, mesh, and species, Nushgak River sonar project, 2000.

							Catch							
Range[a]	Date	Session[b]	Drift Number	Mesh (in)	Fishing Time (min)	Fathom Hours	Total	Chinook	Sockeye	Chum	Pink	Coho	White	Other[c]
4	7/27	1	2,814	5.125	2.5	0.42	0	0	0	0	0	0	0	0
4	7/27	1	2,821	6.000	2.5	0.42	0	0	0	0	0	0	0	0
4	7/27	1	2,822	6.000	2.5	0.42	0	0	0	0	0	0	0	0
4	7/27	3	2,829	6.000	2.5	0.42	0	0	0	0	0	0	0	0
4	7/27	3	2,830	6.000	2.5	0.42	0	0	0	0	0	0	0	0
4	7/27	3	2,837	5.125	2.5	0.42	0	0	0	0	0	0	0	0
4	7/27	3	2,838	5.125	2.5	0.42	0	0	0	0	0	0	0	0
4	7/27	3	2,845	4.500	2.5	0.42	0	0	0	0	0	0	0	0
4	7/27	3	2,846	4.500	2.5	0.42	0	0	0	0	0	0	0	0
4	7/28	1	2,853	4.500	2.5	0.42	0	0	0	0	0	0	0	0
4	7/28	1	2,854	4.500	2.5	0.42	1	0	0	0	1	0	0	0
4	7/28	1	2,861	5.125	2.5	0.42	1	0	0	1	0	0	0	0
4	7/28	1	2,862	5.125	2.5	0.42	1	0	0	0	0	1	0	0
4	7/28	1	2,869	6.000	2.5	0.42	1	0	0	1	0	0	0	0
4	7/28	1	2,870	6.000	2.5	0.42	0	0	0	0	0	0	0	0
4	7/28	3	2,877	6.000	2.5	0.42	0	0	0	0	0	0	0	0
4	7/28	3	2,878	6.000	2.5	0.42	0	0	0	0	0	0	0	0
4	7/28	3	2,885	5.125	2.5	0.42	0	0	0	0	0	0	0	0
4	7/28	3	2,886	5.125	2.5	0.42	0	0	0	0	0	0	0	0
4	7/28	3	2,893	4.500	2.5	0.42	0	0	0	0	0	0	0	0
4	7/28	3	2,894	4.500	2.5	0.42	0	0	0	0	0	0	0	0
4	7/29	1	2,901	4.500	2.5	0.42	0	0	0	0	0	0	0	0
4	7/29	1	2,902	4.500	2.5	0.42	0	0	0	0	0	0	0	0
4	7/29	1	2,909	5.125	2.5	0.42	0	0	0	0	0	0	0	0
4	7/29	1	2,910	5.125	2.5	0.42	0	0	0	0	0	0	0	0
4	7/29	1	2,917	6.000	2.5	0.42	0	0	0	0	0	0	0	0
4	7/29	1	2,918	6.000	2.5	0.42	0	0	0	0	0	0	0	0
4	7/29	3	2,925	6.000	2.5	0.41	0	0	0	0	0	0	0	0
4	7/29	3	2,926	6.000	2.5	0.42	0	0	0	0	0	0	0	0
4	7/29	3	2,933	5.125	2.5	0.42	0	0	0	0	0	0	0	0
4	7/29	3	2,934	5.125	2.5	0.42	3	0	0	0	0	3	0	0
4	7/29	3	2,941	4.500	2.5	0.42	0	0	0	0	0	0	0	0
4	7/29	3	2,942	4.500	2.5	0.42	0	0	0	0	0	0	0	0
4	7/30	1	2,949	4.500	2.5	0.42	0	0	0	0	0	0	0	0
4	7/30	1	2,950	4.500	2.5	0.42	1	0	0	0	0	1	0	0
4	7/30	1	2,957	5.125	2.5	0.42	0	0	0	0	0	0	0	0
4	7/30	1	2,958	5.125	2.5	0.42	1	0	0	0	0	1	0	0
4	7/30	1	2,965	6.000	2.5	0.42	0	0	0	0	0	0	0	0
4	7/30	1	2,966	6.000	2.5	0.42	0	0	0	0	0	0	0	0
4	7/30	3	2,973	6.000	2.5	0.42	0	0	0	0	0	0	0	0
4	7/30	3	2,974	6.000	2.5	0.42	2	0	0	0	0	2	0	0
4	7/30	3	2,981	5.125	2.5	0.42	0	0	0	0	0	0	0	0
4	7/30	3	2,982	5.125	2.5	0.42	0	0	0	0	0	0	0	0
4	7/30	3	2,989	4.500	2.5	0.42	1	0	0	0	1	0	0	0
4	7/30	3	2,990	4.500	2.5	0.42	3	0	0	0	1	1	0	1
4	7/31	1	2,997	4.500	2.5	0.42	3	0	0	0	1	2	0	0
4	7/31	1	2,998	4.500	2.5	0.42	0	0	0	0	0	0	0	0
4	7/31	1	3,005	5.125	2.5	0.42	0	0	0	0	0	0	0	0
4	7/31	1	3,006	5.125	2.5	0.42	0	0	0	0	0	0	0	0
4	7/31	1	3,013	6.000	2.5	0.42	1	0	0	0	0	1	0	0
4	7/31	1	3,014	6.000	2.5	0.42	0	0	0	0	0	0	0	0
4	7/31	3	3,021	6.000	2.5	0.42	0	0	0	0	0	0	0	0
4	7/31	3	3,022	6.000	2.5	0.42	0	0	0	0	0	0	0	0
4	7/31	3	3,029	4.500	2.5	0.42	0	0	0	0	0	0	0	0
4	7/31	3	3,030	4.500	2.5	0.42	4	0	0	0	1	3	0	0

Appendix D.1. Drift gillnet catch by range, date, session, drift number, mesh, and species, Nushgak River sonar project, 2000.

Range[a]	Date	Session[b]	Drift Number	Mesh (in)	Fishing Time (min)	Fathom Hours	Catch							
							Total	Chinook	Sockeye	Chum	Pink	Coho	White	Other[c]
4	7/31	3	3,037	5.125	2.5	0.42	0	0	0	0	0	0	0	0
4	7/31	3	3,038	5.125	2.5	0.42	1	0	0	1	0	0	0	0
4	8/01	1	3,043	5.125	2.3	0.39	1	0	0	0	0	1	0	0
4	8/01	1	3,044	5.125	2.5	0.42	0	0	0	0	0	0	0	0
4	8/01	1	3,049	4.500	2.5	0.42	2	0	0	0	1	1	0	0
4	8/01	1	3,050	4.500	2.5	0.42	5	0	0	0	0	5	0	0
4	8/01	1	3,055	6.000	2.5	0.42	0	0	0	0	0	0	0	0
4	8/01	1	3,056	6.000	2.5	0.42	0	0	0	0	0	0	0	0
4	8/01	3	3,061	6.000	1.5	0.25	3	0	0	0	0	3	0	0
4	8/01	3	3,062	6.000	1.5	0.25	3	0	0	0	0	3	0	0
4	8/01	3	3,067	5.125	1.5	0.25	0	0	0	0	0	0	0	0
4	8/01	3	3,068	5.125	1.5	0.25	3	0	0	0	0	3	0	0
4	8/01	3	3,073	4.500	1.5	0.25	0	0	0	0	0	0	0	0
4	8/01	3	3,074	4.500	2.0	0.33	1	0	0	0	0	1	0	0
4	8/02	1	3,081	4.500	2.0	0.33	0	0	0	0	0	0	0	0
4	8/02	1	3,082	4.500	2.5	0.42	0	0	0	0	0	0	0	0
4	8/02	1	3,089	5.125	2.5	0.42	0	0	0	0	0	0	0	0
4	8/02	1	3,090	5.125	2.7	0.44	1	0	0	0	0	1	0	0
4	8/02	1	3,097	6.000	2.5	0.42	2	0	0	0	0	2	0	0
4	8/02	1	3,098	6.000	2.5	0.42	2	0	0	0	0	2	0	0
4	8/02	3	3,105	6.000	2.5	0.42	1	0	0	0	0	1	0	0
4	8/02	3	3,106	6.000	2.0	0.33	0	0	0	0	0	0	0	0
4	8/02	3	3,113	4.500	2.5	0.42	2	0	0	0	1	1	0	0
4	8/02	3	3,114	4.500	2.0	0.33	2	0	0	0	0	2	0	0
4	8/02	3	3,121	5.125	2.5	0.42	2	0	0	0	0	2	0	0
4	8/02	3	3,122	5.125	2.0	0.33	1	0	0	0	0	1	0	0
4	8/03	1	3,129	5.125	2.5	0.42	0	0	0	0	0	0	0	0
4	8/03	1	3,130	5.125	2.5	0.42	0	0	0	0	0	0	0	0
4	8/03	1	3,137	6.000	2.5	0.42	2	0	0	0	0	2	0	0
4	8/03	1	3,138	6.000	2.4	0.39	1	0	0	0	0	1	0	0
4	8/03	1	3,145	4.500	2.5	0.42	5	0	0	0	0	5	0	0
4	8/03	1	3,146	4.500	2.0	0.33	3	0	0	0	0	3	0	0
4	8/03	3	3,153	4.500	2.5	0.42	0	0	0	0	0	0	0	0
4	8/03	3	3,154	4.500	2.5	0.42	1	0	0	0	0	1	0	0
4	8/03	3	3,161	5.125	2.0	0.33	4	0	0	0	0	4	0	0
4	8/03	3	3,162	5.125	2.0	0.33	2	0	0	0	0	2	0	0
4	8/03	3	3,169	6.000	1.5	0.25	2	0	0	0	0	2	0	0
4	8/03	3	3,170	6.000	1.5	0.25	3	0	0	0	0	3	0	0
4	8/04	1	3,177	6.000	1.5	0.25	4	0	0	0	0	4	0	0
4	8/04	1	3,178	6.000	2.0	0.33	0	0	0	0	0	0	0	0
4	8/04	1	3,185	4.500	1.5	0.25	2	0	0	0	0	2	0	0
4	8/04	1	3,186	4.500	1.5	0.25	0	0	0	0	0	0	0	0
4	8/04	1	3,192	5.125	1.6	0.26	0	0	0	0	0	0	0	0
4	8/04	1	3,193	5.125	1.6	0.26	0	0	0	0	0	0	0	0
4	8/04	3	3,201	5.125	1.5	0.25	1	0	0	0	0	1	0	0
4	8/04	3	3,202	5.125	1.5	0.25	2	0	0	0	1	1	0	0
4	8/04	3	3,209	4.500	1.5	0.25	4	0	0	0	1	3	0	0
4	8/04	3	3,210	4.500	1.5	0.25	0	0	0	0	0	0	0	0
4	8/04	3	3,217	6.000	2.0	0.33	2	0	0	0	0	2	0	0
4	8/04	3	3,218	6.000	2.1	0.35	0	0	0	0	0	0	0	0
4	8/05	1	3,225	6.000	2.0	0.33	0	0	0	0	0	0	0	0
4	8/05	1	3,226	6.000	2.0	0.33	0	0	0	0	0	0	0	0
4	8/05	1	3,233	4.500	1.5	0.25	1	0	0	0	1	0	0	0
4	8/05	1	3,234	4.500	1.5	0.25	1	0	0	0	1	0	0	0
4	8/05	1	3,241	5.125	1.5	0.25	1	0	0	0	0	1	0	0

Appendix D.1. Drift gillnet catch by range, date, session, drift number, mesh, and species, Nushgak River sonar project, 2000.

Range[a]	Date	Session[b]	Drift Number	Mesh (in)	Fishing Time (min)	Fathom Hours	Catch							
							Total	Chinook	Sockeye	Chum	Pink	Coho	White	Other[c]
4	8/05	1	3,242	5.125	1.5	0.25	1	0	0	0	0	1	0	0
4	8/05	3	3,249	5.125	2.0	0.33	3	0	0	0	0	3	0	0
4	8/05	3	3,250	5.125	2.0	0.33	0	0	0	0	0	0	0	0
4	8/05	3	3,257	4.500	1.5	0.25	2	0	0	0	0	2	0	0
4	8/05	3	3,258	4.500	1.5	0.25	1	0	0	0	0	1	0	0
4	8/05	3	3,265	6.000	1.5	0.25	1	0	0	0	0	1	0	0
4	8/05	3	3,266	6.000	1.5	0.25	0	0	0	0	0	0	0	0
4	8/06	1	3,273	6.000	2.5	0.42	0	0	0	0	0	0	0	0
4	8/06	1	3,274	6.000	2.5	0.42	0	0	0	0	0	0	0	0
4	8/06	1	3,281	4.500	2.5	0.42	0	0	0	0	0	0	0	0
4	8/06	1	3,282	4.500	2.5	0.42	0	0	0	0	0	0	0	0
4	8/06	1	3,289	5.125	2.5	0.42	0	0	0	0	0	0	0	0
4	8/06	1	3,290	5.125	2.5	0.42	1	0	0	0	0	1	0	0
4	8/06	3	3,297	5.125	2.0	0.33	0	0	0	0	0	0	0	0
4	8/06	3	3,298	5.125	2.0	0.33	0	0	0	0	0	0	0	0
4	8/06	3	3,305	6.000	2.1	0.36	0	0	0	0	0	0	0	0
4	8/06	3	3,306	6.000	2.0	0.33	0	0	0	0	0	0	0	0
4	8/06	3	3,313	4.500	2.0	0.33	4	0	0	0	0	4	0	0
4	8/06	3	3,314	4.500	2.0	0.33	0	0	0	0	0	0	0	0
4	8/07	3	3,345	6.000	2.5	0.42	0	0	0	0	0	0	0	0
4	8/07	3	3,346	6.000	2.5	0.42	0	0	0	0	0	0	0	0
4	8/07	3	3,353	5.125	2.5	0.42	0	0	0	0	0	0	0	0
4	8/07	3	3,354	5.125	2.5	0.42	3	0	0	0	0	3	0	0
4	8/07	3	3,361	4.500	2.5	0.42	0	0	0	0	0	0	0	0
4	8/07	3	3,362	4.500	2.5	0.42	1	0	0	0	0	1	0	0
4	8/08	1	3,369	4.500	2.5	0.42	0	0	0	0	0	0	0	0
4	8/08	1	3,370	4.500	2.5	0.42	0	0	0	0	0	0	0	0
4	8/08	1	3,377	5.125	2.5	0.42	0	0	0	0	0	0	0	0
4	8/08	1	3,378	5.125	2.5	0.42	0	0	0	0	0	0	0	0
4	8/08	1	3,385	6.000	2.5	0.42	0	0	0	0	0	0	0	0
4	8/08	1	3,386	6.000	2.5	0.42	0	0	0	0	0	0	0	0
4	8/08	3	3,393	6.000	2.5	0.42	0	0	0	0	0	0	0	0
4	8/08	3	3,394	6.000	2.5	0.42	0	0	0	0	0	0	0	0
4	8/08	3	3,401	4.500	2.5	0.42	0	0	0	0	0	0	0	0
4	8/08	3	3,402	4.500	2.5	0.42	0	0	0	0	0	0	0	0
4	8/08	3	3,409	5.125	2.5	0.42	0	0	0	0	0	0	0	0
4	8/08	3	3,410	5.125	2.5	0.42	0	0	0	0	0	0	0	0
4	8/09	3	3,441	5.125	2.5	0.42	1	0	0	0	0	1	0	0
4	8/09	3	3,442	5.125	2.5	0.42	0	0	0	0	0	0	0	0
4	8/09	3	3,449	4.500	2.5	0.42	0	0	0	0	0	0	0	0
4	8/09	3	3,450	4.500	2.5	0.42	0	0	0	0	0	0	0	0
4	8/09	3	3,457	6.000	2.5	0.42	0	0	0	0	0	0	0	0
4	8/09	3	3,458	6.000	2.5	0.42	1	0	0	0	0	1	0	0
4	8/10	1	3,465	6.000	2.5	0.42	0	0	0	0	0	0	0	0
4	8/10	1	3,466	6.000	2.5	0.42	0	0	0	0	0	0	0	0
4	8/10	1	3,473	5.125	2.5	0.42	0	0	0	0	0	0	0	0
4	8/10	1	3,474	5.125	2.5	0.42	0	0	0	0	0	0	0	0
4	8/10	1	3,481	4.500	2.6	0.43	0	0	0	0	0	0	0	0
4	8/10	1	3,482	4.500	2.5	0.42	0	0	0	0	0	0	0	0
4	8/10	3	3,489	4.500	2.5	0.42	0	0	0	0	0	0	0	0
4	8/10	3	3,490	4.500	2.5	0.42	0	0	0	0	0	0	0	0
4	8/10	3	3,497	5.125	2.5	0.42	0	0	0	0	0	0	0	0
4	8/10	3	3,498	5.125	2.5	0.42	0	0	0	0	0	0	0	0
4	8/10	3	3,505	6.000	2.5	0.42	0	0	0	0	0	0	0	0
4	8/10	3	3,506	6.000	2.5	0.42	0	0	0	0	0	0	0	0

Appendix D.1. Drift gillnet catch by range, date, session, drift number, mesh, and species, Nushgak River sonar project, 2000.

Range[a]	Date	Session[b]	Drift Number	Mesh (in)	Fishing Time (min)	Fathom Hours	Catch							
							Total	Chinook	Sockeye	Chum	Pink	Coho	White	Other[c]
4	8/11	1	3,513	6.000	2.5	0.42	0	0	0	0	0	0	0	0
4	8/11	1	3,514	6.000	2.5	0.42	0	0	0	0	0	0	0	0
4	8/11	1	3,521	4.500	2.5	0.42	0	0	0	0	0	0	0	0
4	8/11	1	3,522	4.500	2.5	0.42	0	0	0	0	0	0	0	0
4	8/11	1	3,529	5.125	2.5	0.42	0	0	0	0	0	0	0	0
4	8/11	1	3,530	5.125	2.5	0.42	0	0	0	0	0	0	0	0
4	8/11	3	3,537	5.125	2.5	0.42	0	0	0	0	0	0	0	0
4	8/11	3	3,538	5.125	2.5	0.42	0	0	0	0	0	0	0	0
4	8/11	3	3,545	6.000	2.5	0.42	0	0	0	0	0	0	0	0
4	8/11	3	3,546	6.000	2.5	0.42	0	0	0	0	0	0	0	0
4	8/11	3	3,553	4.500	2.5	0.42	0	0	0	0	0	0	0	0
4	8/11	3	3,554	4.500	2.5	0.42	0	0	0	0	0	0	0	0
4	8/12	1	3,561	4.500	2.5	0.42	0	0	0	0	0	0	0	0
4	8/12	1	3,562	4.500	2.5	0.42	2	0	0	0	0	2	0	0
4	8/12	1	3,569	5.125	2.5	0.42	0	0	0	0	0	0	0	0
4	8/12	1	3,570	5.125	2.5	0.42	0	0	0	0	0	0	0	0
4	8/12	1	3,577	6.000	2.5	0.42	0	0	0	0	0	0	0	0
4	8/12	1	3,578	6.000	2.5	0.42	0	0	0	0	0	0	0	0
4	8/12	3	3,585	6.000	2.5	0.42	0	0	0	0	0	0	0	0
4	8/12	3	3,586	6.000	2.5	0.42	0	0	0	0	0	0	0	0
4	8/12	3	3,593	5.125	2.5	0.42	0	0	0	0	0	0	0	0
4	8/12	3	3,594	5.125	2.5	0.42	0	0	0	0	0	0	0	0
4	8/12	3	3,601	4.500	2.5	0.42	0	0	0	0	0	0	0	0
4	8/12	3	3,602	4.500	2.5	0.42	0	0	0	0	0	0	0	0
4	8/13	1	3,609	4.500	2.5	0.42	0	0	0	0	0	0	0	0
4	8/13	1	3,610	4.500	2.5	0.42	0	0	0	0	0	0	0	0
4	8/13	1	3,617	5.125	2.5	0.42	0	0	0	0	0	0	0	0
4	8/13	1	3,618	5.125	2.5	0.42	2	0	0	0	0	2	0	0
4	8/13	1	3,625	6.000	2.5	0.42	0	0	0	0	0	0	0	0
4	8/13	1	3,626	6.000	2.5	0.42	0	0	0	0	0	0	0	0
4	8/13	3	3,633	6.000	2.5	0.42	0	0	0	0	0	0	0	0
4	8/13	3	3,634	6.000	2.5	0.42	0	0	0	0	0	0	0	0

Appendix D.1. Drift gillnet catch by range, date, session, drift number, mesh, and species, Nushgak River sonar project, 2000.

Range[a]	Date	Session[b]	Drift Number	Mesh (in)	Fishing Time (min)	Fathom Hours	Catch							
							Total	Chinook	Sockeye	Chum	Pink	Coho	White	Other[c]
4	8/13	3	3,641	4.500	2.5	0.42	0	0	0	0	0	0	0	0
4	8/13	3	3,642	4.500	2.5	0.42	0	0	0	0	0	0	0	0
4	8/13	3	3,649	5.125	2.5	0.42	0	0	0	0	0	0	0	0
4	8/13	3	3,650	5.125	2.5	0.42	0	0	0	0	0	0	0	0
4	8/14	1	3,657	5.125	2.5	0.42	0	0	0	0	0	0	0	0
4	8/14	1	3,658	5.125	2.5	0.42	0	0	0	0	0	0	0	0
4	8/14	1	3,665	4.500	2.5	0.42	0	0	0	0	0	0	0	0
4	8/14	1	3,666	4.500	2.5	0.42	0	0	0	0	0	0	0	0
4	8/14	1	3,673	6.000	2.5	0.42	0	0	0	0	0	0	0	0
4	8/14	1	3,674	6.000	2.5	0.42	0	0	0	0	0	0	0	0
4	8/14	3	3,681	6.000	2.5	0.42	0	0	0	0	0	0	0	0
4	8/14	3	3,682	6.000	2.5	0.42	0	0	0	0	0	0	0	0
4	8/14	3	3,689	4.500	2.6	0.43	0	0	0	0	0	0	0	0
4	8/14	3	3,690	4.500	2.5	0.42	1	0	0	0	0	1	0	0
4	8/14	3	3,697	5.125	2.5	0.42	0	0	0	0	0	0	0	0
4	8/14	3	3,698	5.125	2.5	0.42	0	0	0	0	0	0	0	0
4	8/15	1	3,705	5.125	2.5	0.42	0	0	0	0	0	0	0	0
4	8/15	1	3,706	5.125	2.5	0.42	0	0	0	0	0	0	0	0
4	8/15	1	3,713	4.500	2.5	0.42	0	0	0	0	0	0	0	0
4	8/15	1	3,714	4.500	2.5	0.42	0	0	0	0	0	0	0	0
4	8/15	1	3,721	6.000	2.5	0.42	0	0	0	0	0	0	0	0
4	8/15	1	3,722	6.000	2.5	0.42	0	0	0	0	0	0	0	0
4	8/15	3	3,729	6.000	2.5	0.42	0	0	0	0	0	0	0	0
4	8/15	3	3,730	6.000	2.5	0.42	1	0	0	0	0	1	0	0
4	8/15	3	3,737	4.500	2.5	0.42	0	0	0	0	0	0	0	0
4	8/15	3	3,738	4.500	2.5	0.42	0	0	0	0	0	0	0	0
4	8/15	3	3,745	5.125	2.5	0.42	0	0	0	0	0	0	0	0
4	8/15	3	3,746	5.125	2.5	0.42	0	0	0	0	0	0	0	0
4	8/16	1	3,753	5.125	2.5	0.42	0	0	0	0	0	0	0	0
4	8/16	1	3,754	5.125	2.5	0.42	0	0	0	0	0	0	0	0
4	8/16	1	3,761	6.000	2.5	0.42	0	0	0	0	0	0	0	0
4	8/16	1	3,762	6.000	2.5	0.42	0	0	0	0	0	0	0	0
4	8/16	1	3,769	4.500	2.5	0.42	0	0	0	0	0	0	0	0
4	8/16	1	3,770	4.500	2.5	0.42	0	0	0	0	0	0	0	0
4	8/16	3	3,777	4.500	2.5	0.42	0	0	0	0	0	0	0	0
4	8/16	3	3,778	4.500	2.5	0.42	0	0	0	0	0	0	0	0
4	8/16	3	3,785	5.125	2.5	0.42	0	0	0	0	0	0	0	0
4	8/16	3	3,786	5.125	2.5	0.42	0	0	0	0	0	0	0	0
4	8/16	3	3,793	6.000	2.5	0.42	4	0	0	0	0	4	0	0
4	8/16	3	3,794	6.000	2.5	0.42	0	0	0	0	0	0	0	0
4	8/17	1	3,801	6.000	2.6	0.43	0	0	0	0	0	0	0	0
4	8/17	1	3,802	6.000	2.5	0.42	0	0	0	0	0	0	0	0
4	8/17	1	3,809	4.500	2.5	0.42	0	0	0	0	0	0	0	0
4	8/17	1	3,810	4.500	2.5	0.42	0	0	0	0	0	0	0	0
4	8/17	1	3,817	5.125	2.5	0.42	0	0	0	0	0	0	0	0
4	8/17	1	3,818	5.125	2.5	0.42	0	0	0	0	0	0	0	0
4	8/17	3	3,825	5.125	2.5	0.42	0	0	0	0	0	0	0	0
4	8/17	3	3,826	5.125	2.5	0.42	0	0	0	0	0	0	0	0
4	8/17	3	3,833	4.500	2.5	0.42	0	0	0	0	0	0	0	0
4	8/17	3	3,834	4.500	2.5	0.42	0	0	0	0	0	0	0	0
4	8/17	3	3,841	6.000	2.5	0.42	0	0	0	0	0	0	0	0
4	8/17	3	3,842	6.000	2.5	0.42	0	0	0	0	0	0	0	0
Range 4 Total -					3,150.8	527.59	467	118	104	121	12	111	0	1

[a] 1 = Left bank inshore

Appendix D.1. Drift gillnet catch by range, date, session, drift number, mesh, and species, Nushgak River sonar project, 2000.

Range[a]	Date	Session[b]	Drift Number	Mesh (in)	Fishing Time (min)	Fathom Hours	Catch							
							Total	Chinook	Sockeye	Chum	Pink	Coho	White	Other[c]

2 = Left bank offshore

3 = Right bank inshore

4 = Right bank offshore

[b] 1 = 0700 - 1100 hours

2 = 1300 - 1700 hours

3 = 1800 - 2200 hours

[c] "Other" includes Arctic char, Arctic grayling, and rainbow trout.

Appendix D.2. Beach seine catch by date and range, Nushagak River sonar project, 2000.

Date	Range	Number of Sets	Number Caught by Species					
			Chinook	Sockeye	Chum	Pink	Coho	Total
6/28	3	3	0	84	30	0	0	114
6/30	3	3	0	81	33	1	0	115
7/13	3	3	1	108	9	0	0	118
7/31	3	1	1	0	1	101	22	125
8/1	3	3	1	0	0	42	87	130
Total		13	3	273	73	144	109	602