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INTERCEPTIONS OF NORTH AMERICAN AND BRISTOL BAY SOCKEYE SALMON
BY THE JAPANESE LANDBASED DRIFTNET FISHERY, 1972-1981

by

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INTRODUCTION

Harris and Meyer (1982) estimated interceptions of North American sockeye by the Japanese landbased driftnet (LBDN) fishery in 1972-81. Included in that study were listed several suggested improvements of technique by which accuracy of estimates might be improved. They were: 1) Supplementing age composition data for the 1977-81 period with information from the mothership fishery; 2) Improved compilation of biological data to include fish with regenerated freshwater portion of the scale, but for which ocean age and maturity stage are known; 3) Expansion of the age/maturity composition analysis to include more groups and; 4) Improved methods of averaging and substitution of age/maturity estimates when direct data are lacking. Since some of the underlying stock proportion estimates for the Gulf of Alaska stock-group were thought to be spurious (see Cook et al. 1981), an additional improvement of methodology was to make a separate series of estimates for the Bristol Bay stock-group alone, since it was the major component of the North American group and since estimates for Bristol Bay were not suspected to be spurious.

This document presents the results of re-calculating the interception estimates, based on the above improvements of technique.

METHODS

Stock proportion estimates from the scale pattern analysis (Cook et al. 1981 and Knudsen and Harris 1982) were stratified by year, age/

maturity group, time period, and spatial area. Six age/maturity groups were considered (immature 1.2 and 2.2, and maturing 1.2, 2.2, 1.3, and 2.3). Time-period/area stratification in that study was by month and INPFC area, and by month and quadrat, for the months of May and June in each year 1972-1976. Quadrats were defined as regions of the overall study area (east of 160°E and south of 50°N) formed by the intersection of 175°E and 46°N.

Interception estimates made in the present paper were similarly stratified, calculated according to the formula:

$$\hat{N}_{ijkl} = C_{jkl} \times \hat{F}_{ijkl} \times \hat{P}_{ijkl}$$

where \hat{N} is the estimated interception of North American or Bristol Bay sockeye for a given age/maturity group (i), month (j), year (k) and INPFC area (l), C is the LBDN catch of sockeye in numbers of fish reported in documents submitted to the INPFC by the Japan Fisheries Agency (JFA), \hat{F} is the estimated proportion of age/maturity group i in the population exploited by the fishery, and \hat{P} is the estimated North American or Bristol Bay stock proportion for age/maturity group i.

Interception estimates were calculated for only part of the total LBDN catches of sockeye, as no estimates could be made for: 1) catches made in July, as the scale pattern analysis covered only May and June; 2) catches made west of 160°E or north of 50°N; and for 3) age/maturity groups other than the six aforementioned groups covered by the scale pattern analysis.

Estimation of Age/Maturity Composition (\hat{F})

Age/maturity composition estimates for 1972-1976 and 1977-1981 were necessarily derived in a different way. The 1972-1976 estimates were derived from detailed biological data (individual fish records) collected on Japanese research vessels in conjunction with research vessel sockeye catch data. Weighted age/maturity composition estimates were derived from these data in the following manner:

1) For each commercial-type gillnet "A" operation by research vessels in May and June, south of 50°N and east of 160°E , total sockeye catch was prorated to numerous age and maturity groups according to proportions calculated from the subsample in the biological data file. JFA age and maturity determinations were used.

2) Catches-by-age from individual operations were then summed within area/month/year strata, to give weighted estimates of age and maturity composition. Proportional estimates were calculated for eighteen age/maturity groups: immature ages total.1, 1.2, 2.2, 3.2, total.2, total.3 and total immature, and maturing ages total.1, 1.2, 2.2, 3.2, total.2, 1.3, 2.3, 3.3, total.3, total.4, and total matures. Fish with regenerated freshwater and/or marine portion of scale were prorated into freshwater and/or ocean age groups in proportions calculated from the subsample of fish of known age.

3) LBDN catches were made in a number of area/month/year strata for which there were no direct \hat{F} estimates as defined above, or for which the \hat{F} estimates were based on a sample size of less than 25 fish.

Indirect \hat{F} estimates calculated for these strata were the mean of all available age/maturity estimates for the same month/year from the eight surrounding INPFC areas plus the area of concern, weighted by the research vessel CPUE. These indirect estimates comprised 59.3% of all the 1972-76 \hat{F} estimates required for the compilation.

Since we did not have detailed biological data (i.e., individual fish records) for years 1977-1981, data from summary tables provided by JFA, which gave age/maturity composition by 10-day period/INPFC area of sockeye sampled on motherships and research vessels, were used to derive \hat{F} estimates, as follows:

- 1) The 10-day period research vessel and mothership samples were summed by age/maturity group to give age/maturity estimates for each area/month/year stratum. The same 18 age/maturity groups as defined for the 1972-76 estimates were considered.

- 2) For any stratum in which LBDN catches occurred but for which there were no research vessel or mothership data, or for which the available sample size was less than 25 fish, \hat{F} estimates were the mean age/maturity compositions of the eight surrounding INPFC areas and the area of concern, weighted by research vessel CPUE. Only mothership data were available for areas E7046 and E7048 in June of 1979. These areas were weighted by their corresponding mothership CPUE in cases where they were included in a mean computation. Fifty-four percent of all \hat{F} estimates in the 1977-81 period were derived by this indirect method.

3) For areas E6042 and E6542 in May 1977 no information was available by the above methods. \hat{F} estimates for these areas were calculated as the unweighted mean of the same month/area stratum taken over all years 1972-1981.

Appendix Table 1 provides all the 1972-81 age/maturity composition estimates (\hat{F}) made, and indicates the method by which each stratum's estimate was derived.

Estimation of North American and Bristol Bay Stock Proportions (\hat{P})

Stock proportion estimates for overall North American and for Bristol Bay sockeye were based on Cook et al. (1981), although estimates for age 1.2 maturing sockeye only were based on Knudsen and Harris (1982). Estimates used in the present work were taken from original computer outputs that presented values in .0001 precision; they therefore differ slightly from values tabulated to .001 precision in the two documents cited. For the years 1972-76, LBDN catches were made in a number of strata for which there are no direct stock proportion estimates. In those cases the following hierarchical procedure was followed to derive an estimate:

1) If an area/month/year stock proportion value was not available, the quadrat/month/year value was substituted. Thirty percent of the stock proportions were obtained through this substitution.

2) If quadrat/month/year values were not available, the mean area/month value over all other years (1972-76) was substituted. Means were

usually calculated only if the number of month/area values was three or greater.¹ Two percent of the estimates were derived in this manner.

3) If data were insufficient to calculate mean area/month values, the mean quadrat/month value was substituted. Again, means were calculated only if the number of available values was three or greater.¹ Nine percent of the estimates were of this type.

4) If mean quadrat/month values were not available, adjacent quadrat/month/year estimates were substituted (i.e., NW for SW, and NE for SE, as gradation of stock proportions was found to be greater across longitude than across latitude). Thirty-one percent of the \hat{P} estimates were adjacent quadrat substitutions.

5) If the adjacent quadrat/month/year estimate was not available, the mean adjacent quadrat/month over all other years 1972-76 was used. This substitution accounted for eighteen percent of all \hat{P} estimates.

\hat{P} estimates for years 1977-81 were all unweighted area/month or quadrat/month means calculated from the 1972-76 values. If an area/month stratum was represented by three or more values over all years 1972-76, they alone were averaged to give the \hat{P} estimate. Five percent of the 1977-81 \hat{P} estimates were of this type. If less than three area/month values were available, the mean was computed with quadrat/month

¹It was necessary to compute means based on less than three values for areas in the SE and NE quadrats because of the paucity of stock proportion estimates for the region.

values substituted for empty area/month strata. Eighteen percent of all 1977-81 \hat{P} 's were of this type. If necessary, adjacent quadrat/month values were substituted for empty strata in calculating the mean. If the above methods failed to yield an estimate, then mean quadrat/month, mean quadrat/month with adjacent quadrat/month substitutions, or finally mean adjacent quadrat/month values were used. These methods accounted for 32, 24, and 21% of the 1977-81 \hat{P} estimates, respectively.

Appendix Table 2 shows the estimated North American and Bristol Bay stock proportions (\hat{P}), and indicates the method by which each estimate was obtained.

RESULTS AND DISCUSSION

Age and Maturity Composition of LBDN Catches

Appendix Table 3 shows the estimated age and maturity composition of May and June LBDN sockeye catches east of 160°E and south of 50°N , by INPFC area and month. Table 1 and Figure 1 summarize this information in terms of the major age/maturity groups considered in the scale pattern analysis, and all other groups combined. Table 1 also shows the catches made outside the time/area frame covered by the sockeye scale pattern analysis.

Immature sockeye, irrespective of age group, comprised an unweighted average of 50.9% (range = 31.2% in 1975 to 71.9% in 1978) of the total May-June catches southeast of 50°N , 160°E in 1972-81. The proportion of immature fish in the catch was generally higher in June (mean

69.2%) than in May (mean 43.5%), although in 1972 there was virtually no difference in the proportion of immatures between May and June, and in 1978 and 1979 there was a higher proportion of immatures in May. We attribute this general finding of increased proportion of immature fish in the June catches to the earlier northward movement of maturing sockeye bound for coastal areas.

The minor age/maturity groups tallied were immature total.1, 0.2, 3.2, and total.3, and maturing total.1, 0.2, 3.2, 0.3, 3.3, and total.4. Sockeye in these ten minor groups comprised an unweighted average of 16.7% (range = 11.0% in 1979 to 21.5% in 1972) of the total May-June catches made southeast of 50°N, 160°E (Table 1). Freshwater age 3. fish (in all ocean age and maturity categories) comprise the majority of the combined minor age groups, averaging 10.9% of the total catch (range = 2.9% in 1979 to 17.8% in 1972). Interestingly, there was a notable decrease in the proportion of age 3. fish after 1977 (mean 14.0% in 1972-77, 6.3% in 1978-81). Freshwater age 0. fish comprised an average of 0.9% of the catch (range = 0.05% in 1980 to 2.5% in 1977). Immature age .3 fish comprised an average of 4.5% of the May-June catches southeast of 50°N, 160°E (range = 1.8% in 1976 to 11.5% in 1978). Maturing age .4 fish averaged 0.07% of the catches (range = 0% in several years to 0.4% in 1980). Lastly, ocean age .1 fish (of both maturity groups) averaged 0.3% of the catches.

Immature age 1.2 and 2.2, and maturing age 1.2, 2.2, 1.3, and 2.3 sockeye form the major age/maturity groups covered by the scale pattern analysis. Immature age 1.2 and 2.2 sockeye made up an average of 41.1%

(range = 25.6% in 1975 to 55.6% in 1978) of the total May-June catch southeast of 50°N, 160°E. The age 2.2 fish predominated among the immatures, accounting for 66.8% (range = 52.9% in 1979 to 85.8% in 1973) of the combined immature 1.2 and 2.2 total. Maturing age 1.2 and 2.2 sockeye accounted for an average of 33.8% (range = 13.3% in 1978 to 57.5% in 1975) of the total catch. Age 2.2's were again dominant, comprising a mean of 86.6% (range = 80.2% in 1981 to 94.6% in 1975) of the maturing 1.2 and 2.2 total. Maturing age 1.3 and 2.3 sockeye comprised the remaining 8.4% (range = 2.9% in 1972 to 18.2% in 1981) of the total May-June catch in the study area. Freshwater age 2. fish predominated, averaging 60.7% (range = 34.7% in 1979 to 83.8% in 1972) of the combined maturing 1.3 and 2.3 total.

The restriction of the LBDN fishery after 1976, following Japan-U.S.S.R. and INPFC agreements, resulted in a significant decrease in total catches (Table 1). There is considerable annual variation in age/maturity composition in the entire 10-year period covered by this analysis. The only notable change in age/maturity composition after 1976 (besides the decrease in proportion of freshwater age 3. fish, already mentioned) was an increase in the average proportion of immature ages 1.2 and 2.2 (means = 34.7% in 1972-76, 47.6% in 1977-81).

Interceptions of North American and Bristol Bay Sockeye

Appendix Table 4 shows the estimated interceptions of North American sockeye by the LBDN fishery, by month, year, INPFC area, and major age/maturity group. Appendix Table 5 presents the estimated interceptions of Bristol Bay fish in the same format. Figure 2 summarizes annual

interceptions of North American and Bristol Bay sockeye by maturity group, in comparison with total LBDN catches and May-June catches in major age/maturity groups southeast of 50°N , 160°E .

In subsequent discussion and referenced tables, rates of interception are in terms of May-June catches of sockeye in the six major age/maturity groups east of 160°E and south of 50°N , since the scale pattern analysis covered only that portion of the total LBDN catches. These catches comprised an average of 78.65% of the total LBDN catches reported in official catch statistics (range = 70.4% in 1972 to 87.5% in 1979). Our general conclusions regarding continental stock composition of some of the minor age/maturity groups are the same as presented in Harris and Meyer (1982). Discussion will address two periods, 1972-76 when the fishery operated before recent regulatory changes, and 1978-81 when the fishery operated under new regulations imposed by Japan-U.S.S.R and INPFC agreements. In 1977 the fishery operated under a unique set of regulations resulting from a Japan-U.S.S.R. agreement, which, for the area east of 160°E , involved a late start of fishing operations.

Estimated interceptions of North American sockeye averaged 362,814 fish in the period 1972-76, ranging from 266,083 in 1973 to 505,573 in 1975. Interception rates for the 1972-76 period average 14.2% (range is 10.5% in 1973 to 19.9% in 1975). In 1977, an estimated 95,638 North American sockeye were intercepted, representing an interception rate of 9.8%. Interceptions in 1978-81 averaged 80,765 fish (range is 60,683 in 1979 to 111,125 in 1978), for an average interception rate of 10.8% (range is 9.2% in 1979 to 11.5% in 1981).

Interceptions of Bristol Bay sockeye in 1972-76 averaged 212,945 fish (range is 122,334 in 1975 to 356,923 in 1976). The average rate for that period is 8.8% (range is 4.8% in 1975 to 13.3% in 1976). In 1977 66,405 Bristol Bay fish were estimated to have been intercepted, representing a rate of 6.8%. In the 1978-81 period an average of 65,695 fish were intercepted (range is 49,629 in 1979 to 85,446 in 1978). Estimated interception rates for the later period average 8.8% (range is 7.5% in 1979 to 9.7% in 1981).

Estimates of North American and Bristol Bay interception rates show a high degree of consistency over most years. This is probably due in part to the averaging and substitution methods necessarily employed to determine stock proportions when direct estimates were not available. The peak interception of North American fish that occurred in 1975 is a result of a large May catch of maturing age 2.2 sockeye in area E6544, in conjunction with the relatively high North American stock proportion (\hat{P}) estimate for that stratum. Interestingly, 1975 was a peak cycle year of the Bristol Bay sockeye run, in which age 2.2 fish predominated, yet the \hat{P} estimate for Bristol Bay stocks in area E6544 in May 1975 is zero. \hat{P} and \hat{F} estimates for maturing age 2.2 fish in area E6544 in May 1975 were direct values, not based on averaging or substitution.

Table 2 presents a summary of yearly interception rate estimates for North American and Bristol Bay fish, broken down by maturity group. These rates were calculated as the yearly interception divided by the total estimated catch of immature ages 1.2 and 2.2 fish or of maturing ages 1.2, 2.2, 1.3, and 2.3 fish, as appropriate. There is virtually no

difference in the interception rates between the two maturity groups in either the 1972-76 or 1978-81 periods. For both maturity groups, the interception rate for North American fish declined after 1977 (means are 13.3% in 1972-76, 11.0% in 1978-81 for immatures, and 13.7% in 1972-76, 10.9% in 1978-81 for maturing fish). The estimated interception rate for immature Bristol Bay fish also declined (from 9.7% to 9.1%), but that for maturing fish increased from 7.9% to 8.7%.

In all years except 1975, Bristol Bay sockeye form the major constituent (average is 75.6%, range 64.2% in 1972 to 84.6% in 1980) of the total North American interception estimate. In 1975 the Bristol Bay stock-complex comprised only 24.2% of the estimate for North America, again due largely to the influence of one area/month stratum for which the stock proportion estimate for Bristol Bay was zero. We consider this finding for 1975 anomalous, given that 1975 was a peak-cycle year for Bristol Bay, and that the predominance of maturing age 2.2 fish found in the high seas population was consistent with the principal age group in the 1975 Bristol Bay run.

Interception rates for the area east of 175°E were much higher than the rates in other regions of the LBDN fishery (Table 3). The 1972-76 mean interception rate for North American fish southeast of 46°N , 175°E is 46.1%, versus 9.2% for the area west of 175°E south of 44°N , and 10.7% for the area northwest of 44°N , 175°E . Similarly, the estimated interception rates for Bristol Bay fish in 1972-76 are 35.3% southeast of 46°N , 175°E , 7.3% for the area southwest of 44°N , 175°E , and 6.0% for the area northwest of 44°N , 175°E . The large difference is due in part

to the lack of direct estimates for the southeast quadrat, making it necessary to substitute values from the northeast quadrat, where North American and Bristol Bay stock estimates are generally high. Although these substitutions may have biased upwards the estimates for areas southeast of 46°N , 175°E , it is likely that the fraction of North American fish is higher in these areas than in those west of 175°E , as gradations in stock proportion estimates show a stronger longitudinal than latitudinal component. Any bias of the estimates for the southeast areas is not likely to have a great effect on the overall interception rates, however, as the catches made in those areas account for only a small fraction (average 9.4%) of the total May-June LBDN catch made southeast of 50°N , 160°E in the 1972-76 period.

The total number of intercepted North American and Bristol Bay sockeye dropped off dramatically in the 1978-81 period, following the closure of the area southeast of 46°N , 175°E and especially most of the area north of 44°N . The mean interception rate for North American fish in the 1978-81 period declined by 3.4% from that of the 1972-76 period, and there was no change in the mean rate for Bristol Bay fish. We interpret this general result to indicate that the drop in interceptions is due mostly to reduction of the catch rather than to the different fishing area after 1977. Although the area east of 175°E was represented by high estimated interception rates, the region never produced more than a minor fraction of the total sockeye catch, so closure of the area did not greatly alter the overall interception rate. We warn, however, that a strict comparison of interception rates between the two periods is not

possible since the stock composition estimates for the 1978-81 period were average values taken from the 1972-76 scale analysis.

Comparison of these results with those of the previous analysis (Harris and Meyer 1982) show only slight changes in stock proportion, age composition and interception estimates. Stock proportion estimates, apart from the higher precision in base data and corrections made in a few strata, remain unchanged. Refinements in estimating age composition resulted in a slight increase in the proportion of the combined minor age/maturity groups (average percent increase was 0.18%). The proportions of the groups immature .2, maturing .2, and maturing .3 changed (i.e., original estimate minus present) by averages of 0.39%, 0.66%, and -0.88%, respectively. The relative proportions of the major age/maturity groups, however, remained generally similar.

A slight increase in the estimated numbers of intercepted North American sockeye resulted from the improvements of methodology. Estimates were somewhat higher in all years except 1973 and 1979. These increased estimates are due to revised age/maturity composition estimates, particularly in those area/month strata in which larger catches occurred.

Although this re-analysis represents what is hoped to be more accurate estimates of interceptions of North American and Bristol Bay sockeye by the Japanese LBDN fishery, it is still limited by the same factors mentioned by Harris and Meyer (1982) (viz., sample representativeness, accuracy of the stock proportion estimates from the scale

pattern analysis, accuracy of JFA age/maturity designation, accuracy of catch statistics, and appropriateness of averaging and substitution of estimates for many area/month strata where needed data were lacking).

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FIGURES AND TABLES

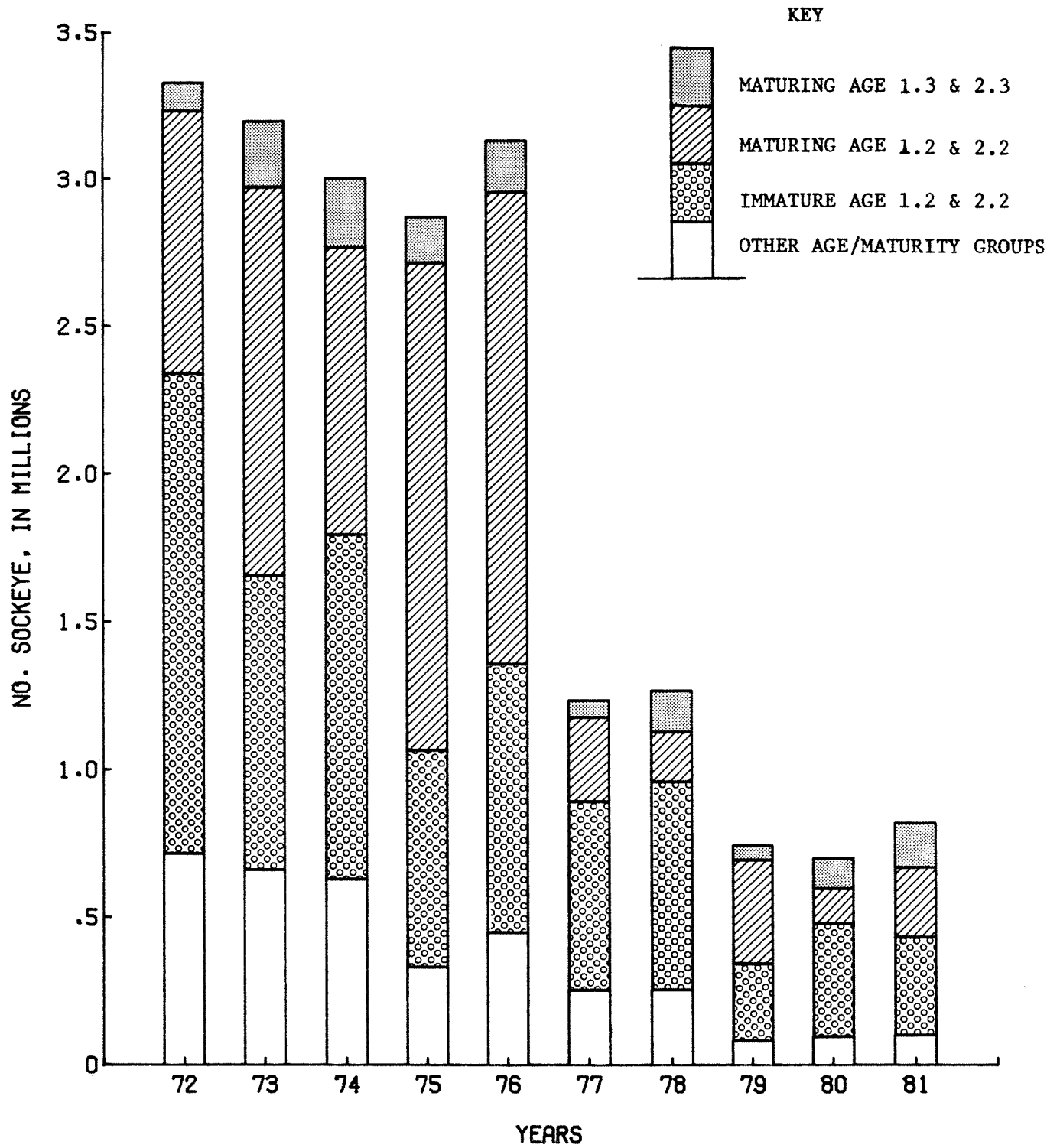


Fig. 1. Estimated age/maturity composition of sockeye salmon catches made by the Japanese landbased driftnet fishery May and June, 1972-81, east of 160°E, south of 50°N.

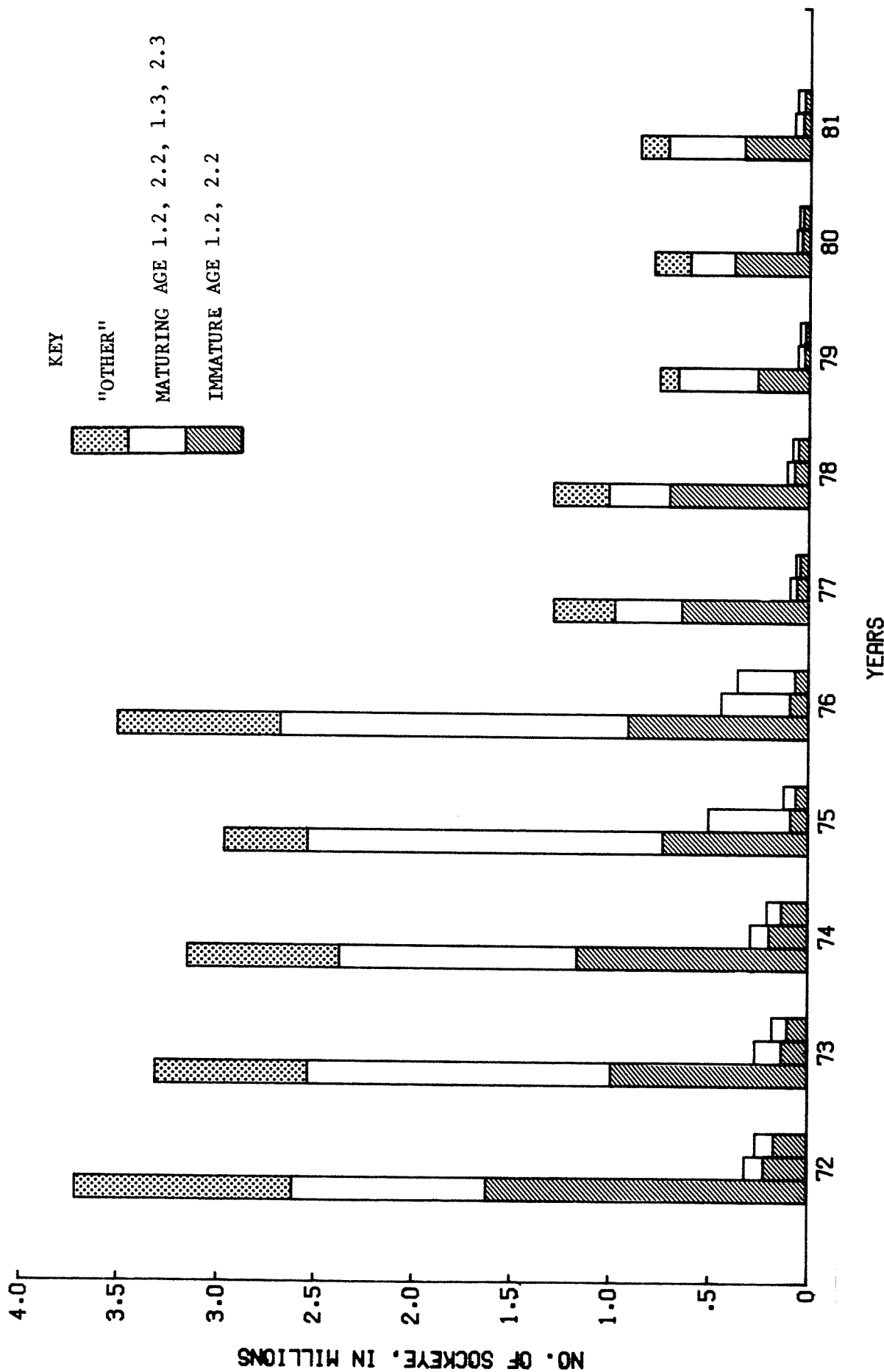


Fig. 2. Japanese landbased driftnet catches of sockeye salmon (left bars), estimated interceptions of North American fish (center bars), and estimated interceptions of Bristol Bay fish (right bar). The "OTHER" section of the left bar indicates the proportion of the total catch made: 1) west of 160°E or north of 50°N, 2) in July, or 3) in age/maturity groups not considered in previous scale pattern analysis.

Table 1. Total Japanese landbased driftnet fishery catches of sockeye salmon (in numbers of fish), and estimated age and maturity composition of May-June catches east of 160°E and south of 50°N, 1972-81. Source of basic catch data is INPFC documents submitted by Japan Fisheries Agency.

Year	Total LBDN catch	May-June catch west of 160°E		May-June catches east of 160°E			All other age/ maturity groups	
		July catch	Month	Immature 1.2 + 2.2	Maturing 1.2 + 2.2	Maturing 1.3 + 2.3		
1972	3,710,726	340,803	41,932	May	1,272,974(48.04)	682,907(25.77)	84,338(3.18)	609,498(23.00)
				June	351,243(51.79)	207,856(30.65)	13,033(1.92)	106,142(15.65)
				Total	1,624,217(48.81)	890,763(26.77)	97,371(2.93)	715,640(21.50)
1973	3,308,057	86,716	24,971	May	734,243(28.05)	1,181,198(45.12)	199,837(7.63)	502,463(19.20)
				June	259,695(44.88)	134,566(23.26)	24,475(4.23)	159,893(27.63)
				Total	993,938(31.10)	1,315,764(41.16)	224,312(7.02)	662,356(20.72)
1974	3,155,000 ^{A,B}	111,000	38,000	May	969,009(35.50)	959,348(35.14)	227,480(8.33)	574,163(21.03)
				June	196,442(72.22)	13,150(4.84)	6,942(2.55)	55,466(20.39)
				Total	1,165,451(38.82)	972,498(32.40)	234,422(7.81)	629,629(20.97)
1975	2,968,000 ^A	79,000	19,000	May	690,892(24.83)	1,620,182(58.22)	150,625(5.41)	321,301(11.55)
				June	43,597(50.11)	28,968(33.30)	4,001(4.60)	10,434(11.99)
				Total	734,489(25.59)	1,649,150(57.46)	154,626(5.39)	331,735(11.56)
1976	3,504,184	300,536	73,950	May	686,284(25.01)	1,503,617(54.79)	171,397(6.25)	383,052(13.96)
				June	222,362(57.70)	93,582(24.29)	3,708(0.96)	65,696(17.05)
				Total	908,646(29.03)	1,597,199(51.03)	175,105(5.60)	448,748(14.34)
1977	1,289,345	52,240	3,355	May	67,253(17.53)	196,545(51.23)	37,932(9.89)	81,894(21.35)
				June	571,665(67.24)	87,597(10.30)	18,585(2.19)	172,279(20.27)
				Total	638,918(51.79)	284,142(23.08)	56,517(4.58)	254,173(20.60)
1978	1,292,599	12,683	12,451	May	547,629(54.95)	106,006(10.64)	120,268(12.07)	222,779(22.35)
				June	157,420(58.14)	61,982(22.89)	19,465(7.19)	31,916(11.79)
				Total	705,049(55.63)	167,988(13.25)	139,733(11.02)	254,695(20.09)
1979	756,561	9,806	2,588	May	174,862(37.31)	214,128(45.68)	22,306(4.76)	57,425(12.25)
				June	86,531(31.41)	137,185(49.80)	27,047(9.82)	24,713(8.97)
				Total	261,393(35.12)	351,313(47.21)	49,353(6.63)	82,138(11.04)

Table 1. Total Japanese landbased driftnet fishery catches of sockeye salmon (in numbers of fish), and estimated age and maturity composition of May-June catches east of 160°E and south of 50°N, 1972-81. Source of basic catch data is INPFC documents submitted by Japan Fisheries Agency - cont'd.

Year	LBDN catch	July catch	May-June catch west of 160°E	May-June catches east of 160°E				All other age/maturity groups
				Month	Immature 1.2 + 2.2	Maturing 1.2 + 2.2	Maturing 1.3 + 2.3	
1980	786,993	76,777	10,209 ^C	May	193,185(43.79)	106,113(24.05)	82,778(18.76)	59,066(13.39)
				June	189,060(73.03)	13,298(5.13)	19,208(7.42)	37,299(14.41)
				Total	382,245(54.61)	119,411(17.06)	101,986(14.57)	96,365(13.77)
1981	858,790	28,932	10,736	May	160,617(27.38)	205,550(35.04)	142,863(24.35)	77,593(13.23)
				June	173,218(74.50)	29,797(12.89)	6,334(2.72)	22,968(9.88)
				Total	333,835(40.76)	235,529(28.75)	149,187(18.21)	100,561(12.28)

^ACatches for 1974 and 1975 were reported in thousands of fish in original documents.

^BThe sum of catches in individual INPFC area/month strata is 4,000 less than the total reported for the year, in the original catch statistics document.

^CIncludes 3,743 sockeye caught outside the study area, in area E6550.

Table 2. Summary of estimated interception rates of North American and Bristol Bay sockeye salmon by maturity group. Rates were calculated from estimates presented in Table 1 and Appendix Tables 4 and 5.

Year	Immature		Maturing		Total	
	N.A.	B.B.	N.A.	B.B.	N.A.	B.B.
1972	13.5	10.4	9.6	9.3	12.0	10.0
1973	13.3	10.5	8.9	4.8	10.5	7.0
1974	16.8	11.4	7.7	6.1	12.2	8.7
1975	12.4	8.8	23.0	3.2	19.9	4.8
1976	10.3	7.6	19.5	16.2	16.4	13.3
1972-76 mean	13.3	9.7	13.7	7.9	14.2	8.8
1977	9.5	6.9	10.3	6.5	9.8	6.8
1978	10.8	8.0	11.9	9.4	11.0	8.4
1979	10.3	8.7	8.5	6.7	9.2	7.5
1980	11.3	9.8	11.6	9.4	11.4	9.6
1981	11.5	10.0	11.5	9.4	11.5	9.7
1978-81 mean	11.0	9.1	10.9	8.7	10.8	8.8

Table 3. Estimated May-June catch in major age group, North American (NA) and Bristol Bay (BB) interceptions, and rates of interception (rate) of sockeye salmon by the Japanese landbased driftnet fishery 1972-81, broken down by maturity group and major section of the fishery area.

YEAR	MATURITY GROUP	E. OF 175E, S. OF 46N				W. OF 175E, S. OF 44N				W. OF 175E, 44 - 50N			
		CATCH	NORTH AMERICA	INT. RATE	BRISTOL BAY	CATCH	NORTH AMERICA	INT. RATE	BRISTOL BAY	CATCH	NORTH AMERICA	INT. RATE	BRISTOL BAY
1972	IMMATURE	229633	105766	.461	78443	1290	103	.080	80	1393294	113568	.082	89691
	MATURING	48877	22394	.458	19402	1205	62	.051	62	938052	72849	.078	72713
	TOTAL	278510	128160	.460	97845	2495	165	.066	142	2331346	186417	.080	162404
1973	IMMATURE	159332	85601	.537	61965	9059	237	.026	226	825547	46489	.056	42332
	MATURING	99682	54790	.550	46907	3674	249	.068	176	1436720	78717	.055	26069
	TOTAL	259014	140391	.542	108872	12733	486	.038	402	2262267	125206	.055	68401
1974	IMMATURE	211938	86177	.407	66235	6405	1059	.165	975	947108	107974	.114	65283
	MATURING	47520	25310	.533	21911	2775	176	.063	169	1156625	67589	.058	51179
	TOTAL	259458	111487	.430	88146	9180	1235	.135	1144	2103733	175563	.083	116462
1975	IMMATURE	73775	26494	.359	19915	8837	1219	.138	1170	651877	63392	.097	43901
	MATURING	4675	2384	.510	1746	17689	1649	.093	157	1761412	410435	.230	55445
	TOTAL	78450	28878	.368	21661	26526	2868	.108	1327	2433289	473827	.195	99346
1976	IMMATURE	52099	27210	.522	20388	54230	4269	.079	3233	802317	62363	.078	45382
	MATURING	248706	125330	.504	93645	40134	6363	.159	6134	1483464	213851	.144	188141
	TOTAL	300805	152540	.507	114033	94364	10632	.113	9367	2285781	276214	.121	233523
1977	IMMATURE	138	71	.514	51	1336	163	.122	145	637444	60356	.095	44102
	MATURING	92	58	.630	42	306	27	.088	22	340261	34963	.103	22043
	TOTAL	230	129	.561	93	1642	190	.116	167	977705	95319	.097	66145
1978	IMMATURE	0	0	---	0	230443	19711	.086	15483	474606	54869	.116	41021
	MATURING	0	0	---	0	258724	31973	.124	25329	48997	4572	.093	3613
	TOTAL	0	0	---	0	489167	51684	.106	40812	523603	59441	.114	44634
1979	IMMATURE	0	0	---	0	114811	12679	.110	11176	146382	14131	.096	11626
	MATURING	0	0	---	0	238684	19254	.081	14131	161982	14619	.090	12696
	TOTAL	0	0	---	0	353495	31933	.090	25307	308564	28750	.093	24322
1980	IMMATURE	0	0	---	0	219364	28583	.130	25949	162881	14439	.089	11421
	MATURING	0	0	---	0	123541	15846	.128	12190	97856	9919	.101	8610
	TOTAL	0	0	---	0	342905	44429	.130	38139	260737	24358	.093	20031
1981	IMMATURE	0	0	---	0	207842	26076	.125	23149	125993	12274	.097	10193
	MATURING	0	0	---	0	151367	15015	.099	11486	233359	29099	.125	24707
	TOTAL	0	0	---	0	359209	41091	.114	34635	359352	41373	.115	34900

APPENDIX TABLES

Appendix Table 1. Fractional age/maturity composition estimates for each month/year/INPFC area stratum in which a landbased driftnet catch was made, May-June, 1972-81, southeast of 160°E, 50°N. "AVG" indicates estimates derived as an average of adjacent areas. "I" indicates immatures, "M" maturing fish. See text for description of age group - cont'd.

MONTH	YEAR	AREA	METHOD	MAT.	T.1	1.2	2.2	3.2	T.2	1.3	2.3	3.3	T.3	T.4	TOTAL		
MAY	1974	E6044	AVG	I	.0000	.0861	.1625	.0151	.2636	.0020	.0102	.0000	.0125	.0000	.2761		
				M	.0046	.0930	.4708	.1290	.6928	.0265	.0000	.0000	.0000	.7239			
		E6542	AVG	I	.0029	.1060	.1964	.0509	.3533	.0264	.0000	.0000	.0000	.0000	.0000	.3827	
				M	.0068	.0859	.3463	.1437	.5760	.0345	.0000	.0000	.0000	.0000	.6173		
		E6544	AVG	I	.0048	.1249	.2453	.0761	.4463	.0278	.0000	.0000	.0000	.0000	.0000	.4790	
				M	.0090	.0258	.3387	.1035	.4681	.0440	.0000	.0000	.0000	.0000	.5210		
		E7042	AVG	I	.0041	.1139	.2099	.0651	.3889	.0320	.0000	.0000	.0000	.0000	.0000	.4251	
				M	.0077	.0831	.2969	.1496	.5296	.0377	.0000	.0000	.0000	.0000	.0000	.5749	
		E7044	AVG	I	.0007	.0337	.1789	.0524	.2651	.0722	.0000	.0000	.0000	.0000	.0000	.0000	.3380
				M	.0014	.0732	.2635	.0750	.4116	.2489	.0000	.0000	.0000	.0000	.0000	.0000	.6620
		E7544	AVG	I	.0000	.0666	.2853	.0713	.4234	.0942	.0000	.0000	.0000	.0000	.0000	.0000	.5176
				M	.0000	.1083	.2169	.0896	.4148	.0675	.0000	.0000	.0000	.0000	.0000	.0000	.4824
8042	AVG	I	.0000	.3840	.5671	.0335	.9846	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.9846		
		M	.0000	.0154	.0000	.0000	.0154	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0154		
8044	AVG	I	.0000	.3840	.5671	.0335	.9846	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.9846		
		M	.0000	.0154	.0000	.0000	.0154	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0154		
JUNE	1974	E6044	AVG	I	.0000	.0576	.1613	.0185	.2396	.0734	.2054	.0066	.0163	.0000	.2559		
				M	.0312	.0205	.2962	.1060	.4227	.2901	.0000	.0000	.0000	.0000	.7441		
		E6544	AVG	I	.0000	.2367	.5705	.0727	.8798	.0255	.0000	.0000	.0000	.0000	.0000	.9054	
				M	.0255	.0000	.0513	.0179	.0691	.0000	.0000	.0000	.0000	.0000	.0000	.0946	
		E7042	AVG	I	.0000	.3664	.3952	.1604	.9221	.0614	.0000	.0000	.0000	.0000	.0000	.9835	
				M	.0045	.0000	.0090	.0031	.0121	.0000	.0000	.0000	.0000	.0000	.0000	.0165	
		E7044	AVG	I	.0000	.3939	.3581	.1790	.9310	.0690	.0000	.0000	.0000	.0000	.0000	.1.0000	
				M	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	
		E7544	AVG	I	.0000	.4551	.2907	.1362	.8909	.0449	.0000	.0000	.0000	.0000	.0000	.0000	.9359
				M	.0000	.0000	.0494	.0044	.0537	.0104	.0000	.0000	.0000	.0000	.0000	.0000	.0641
		8044	AVG	I	.0000	.4263	.4742	.0446	.9908	.0092	.0000	.0000	.0000	.0000	.0000	.0000	.1.0000
				M	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000
MAY	1975	E6042	AVG	I	.0001	.0139	.1273	.0144	.1558	.0215	.0328	.0005	.0091	.0000	.1651		
				M	.0010	.0353	.6950	.0463	.7766	.0373	.0000	.0000	.0000	.0000	.8349		
		E6044	AVG	I	.0006	.0072	.1563	.0195	.1837	.0038	.0000	.0000	.0000	.0000	.0000	.1881	
				M	.0026	.0253	.6480	.0602	.7335	.0758	.0000	.0000	.0000	.0000	.8119		
		E6542	AVG	I	.0000	.0188	.0940	.0124	.1258	.0000	.0000	.0000	.0000	.0000	.0000	.1258	
				M	.0022	.0169	.7998	.0355	.8522	.0199	.0000	.0000	.0000	.0000	.0000	.8742	
		E6544	AVG	I	.0000	.0143	.1304	.0135	.1582	.0145	.0000	.0000	.0000	.0000	.0000	.1728	
				M	.0000	.0459	.6697	.0459	.7615	.0657	.0000	.0000	.0000	.0000	.0000	.8272	
		E7042	AVG	I	.0220	.1550	.2859	.0193	.4719	.0326	.0000	.0000	.0000	.0000	.0000	.5265	
				M	.0033	.0179	.3773	.0327	.4279	.0423	.0000	.0000	.0000	.0000	.0000	.4735	
		E7044	AVG	I	.0000	.1444	.4163	.0722	.6329	.0834	.0000	.0000	.0000	.0000	.0000	.7163	
				M	.0167	.0000	.1671	.0332	.2003	.0667	.0000	.0000	.0000	.0000	.0000	.2837	
E7544	AVG	I	.0636	.3519	.4445	.0000	.8303	.0364	.0000	.0000	.0000	.0000	.0000	.9303			
		M	.0000	.0000	.0364	.0182	.0546	.0151	.0000	.0000	.0000	.0000	.0000	.0697			
8044	AVG	I	.0636	.3519	.4445	.0000	.8303	.0364	.0000	.0000	.0000	.0000	.0000	.9303			
		M	.0000	.0000	.0364	.0182	.0546	.0151	.0000	.0000	.0000	.0000	.0000	.0697			

Appendix Table 1. Fractional age/maturity composition estimates for each month/year/INPFC area stratum in which a landbased driftnet catch was made, May-June, 1972-81, southeast of 160°E, 50°N. "AVG" indicates estimates derived as an average of adjacent areas. "I" indicates immatures, "M" maturing fish. See text for description of age group - cont'd.

MONTH	YEAR	AREA	METHOD	MAT.	I.1	1.2	2.2	3.2	I.2	1.3	2.3	3.3	I.3	I.4	TOTAL
MAY	1977	E6042	AVG*	I	.0032	.1042	.2235	.0113	.3389	.0220	.0317	.0013	.0325	.0000	.3746
				M	.0000	.0515	.4244	.0741	.5830	.0426	.6253				
		E6044	AVG	I	.0004	.0279	.1248	.0187	.1873	.0294	.2171				
				M	.0025	.0599	.5266	.0820	.7021	.0783	.7829				
		E6542	AVG*	I	.0000	.0701	.2567	.0307	.3717	.0404	.4121				
				M	.0047	.0409	.3526	.1510	.4319	.1480	.5879				
E6544	AVG	I	.0011	.0515	.1753	.0346	.2759	.0299	.3069						
		M	.0014	.0389	.3445	.0667	.4723	.2165	.6931						
E7044	AVG	I	.0001	.1741	.0323	.0417	.5623	.0795	.6418						
		M	.0028	.0338	.2106	.0382	.2943	.0612	.3582						
JUNE	1977	E6042	AVG	I	.0082	.0940	.5115	.0939	.6904	.0082	.0266	.0082	.0245	.0000	.7321
				M	.0000	.0164	.1344	.0742	.2249	.0430	.2679				
		E6044	AVG	I	.0000	.0833	.6458	.2500	.9792	.0000	.9792				
				M	.0000	.0000	.0208	.0000	.0208	.0000	.0208				
		E6046	AVG	I	.0018	.0347	.1140	.0212	.1698	.0055	.1772				
				M	.0000	.0339	.1510	.0905	.2795	.5392	.8228				
		E6542	AVG	I	.0039	.2707	.4895	.0800	.8575	.0118	.8733				
				M	.0000	.0079	.0636	.0355	.1070	.0197	.1267				
		E6544	AVG	I	.0087	.0957	.5043	.0870	.6870	.0261	.7217				
				M	.0000	.0174	.1391	.0783	.2348	.0435	.2783				
		E7042	AVG	I	.0040	.2752	.4857	.0759	.8546	.0121	.8707				
				M	.0000	.0081	.0646	.0364	.1091	.0202	.1293				
E7044	AVG	I	.0000	.4333	.4667	.0657	1.0000	.0000	1.0000						
		M	.0000	.0000	.0000	.0000	.0000	.0000	.0000						
E7544	AVG	I	.0000	.1972	.3324	.0397	.5814	.0206	.6020						
		M	.0000	.0599	.1990	.0220	.2835	.1146	.3980						
MAY	1978	E6040	AVG	I	.0046	.0844	.3107	.0385	.4337	.0747	.1265	.0397	.1029	.0000	.5411
				M	.0000	.0298	.1612	.0270	.2160	.2410	.4589				
		E6042	AVG	I	.0157	.0787	.3386	.0315	.4488	.0866	.5512				
				M	.0000	.0472	.3071	.0315	.3858	.0630	.4488				
		E6540	AVG	I	.0029	.1468	.3828	.0242	.5538	.1115	.6682				
				M	.0000	.0411	.1246	.0169	.1827	.1491	.3318				
		E6542	AVG	I	.0000	.0694	.2824	.0324	.3843	.1250	.5093				
				M	.0000	.0231	.1157	.0139	.1528	.3380	.4907				
		E7040	AVG	I	.0000	.1620	.3926	.0225	.5772	.1171	.6943				
				M	.0000	.0397	.0839	.0137	.1374	.1684	.3057				
		E7042	AVG	I	.0000	.1393	.3285	.0404	.5113	.1165	.6277				
				M	.0000	.0228	.0685	.0216	.1129	.2593	.3723				
E7044	AVG	I	.0000	.2755	.4331	.0472	.7717	.1496	.9213						
		M	.0000	.0157	.0394	.0157	.0709	.0000	.0079	.0000					

Appendix Table 1. Fractional age/maturity composition estimates for each month/year/INPFC area stratum in which a landbased driftnet catch was made, May-June, 1972-81, southeast of 160°E, 50°N. "AVG" indicates estimates derived as an average of adjacent areas. "I" indicates immatures, "M" maturing fish. See text for description of age group - cont'd.

MONTH	YEAR	AREA	METHOD	MAT.	I.1	1.2	2.2	3.2	I.2	1.3	2.3	3.3	I.3	I.4	TOTAL	
JUNE	1978	E6042	AVG	I	.0000	.0497	.1912	.0373	.2782	.0391	.0609	.0025	.0323	.0000	.3105	
				M	.0000	.0790	.4216	.0815	.5820	.0391	.0609	.0025	.1051	.0000	.6895	
		E6542	AVG	I	.0020	.0987	.2372	.0348	.3707	.0363	.0524	.0020	.0929	.0400	.0000	.4127
				M	.0000	.0655	.3614	.0656	.4924	.0363	.0524	.0020	.0929	.0000	.2873	
E7042	AVG	I	.0232	.3183	.3694	.0464	.7390	.0417	.0778	.0490	.0694	.0000	.1184	.0000	.8038	
		M	.0000	.0041	.0689	.0046	.0778	.0490	.0694	.0000	.1184	.0000	.1962	.0000	.1962	
		I	.0130	.3377	.4545	.0260	.8182	.0260	.0649	.0000	.0519	.0000	.0519	.0000	.8831	
		M	.0000	.0130	.0519	.0000	.0649	.0260	.0649	.0000	.0519	.0000	.0519	.0000	.1169	
MAY	1979	E6042	AVG	I	.0000	.1852	.3333	.0000	.5185	.0000	.0000	.0000	.0000	.0000	.5185	
				M	.0000	.0370	.4444	.0000	.4815	.0000	.0000	.0000	.0000	.0000	.0000	.0000
		E6540	AVG	I	.0000	.2243	.3697	.0010	.5949	.0194	.0106	.0097	.0397	.0000	.0000	.6414
				M	.0000	.0839	.2350	.0000	.3189	.0194	.0106	.0097	.0397	.0000	.0000	.0000
E6542	AVG	I	.0000	.0217	.1848	.0109	.2174	.0217	.0217	.0217	.0109	.0109	.0617	.0000	.2500	
		M	.0000	.0109	.6848	.0000	.6957	.0217	.0217	.0109	.0543	.0000	.0000	.0000	.7500	
E7042	AVG	I	.0000	.2593	.3704	.0000	.6296	.0617	.0617	.0247	.0123	.0123	.0494	.0000	.6914	
		M	.0000	.0864	.1728	.0000	.2593	.0247	.0123	.0123	.0494	.0000	.0000	.0000	.3086	
E7044	AVG	I	.0000	.2474	.1753	.0103	.4330	.1031	.1031	.0206	.0309	.0103	.0722	.0000	.5361	
		M	.0000	.0928	.2784	.0206	.3918	.0206	.0309	.0103	.0722	.0000	.0000	.0000	.4639	
JUNE	1979	E6042	AVG	I	.0000	.1875	.6250	.0000	.8125	.0313	.0000	.0000	.0625	.0000	.8750	
				M	.0000	.0000	.0938	.0000	.0938	.0313	.0000	.0000	.0000	.0000	.0000	.1250
		E6540	AVG	I	.0000	.2308	.5571	.0000	.7879	.0520	.0000	.0000	.0000	.0520	.0000	.8399
				M	.0187	.0000	.0967	.0000	.0967	.0260	.0000	.0000	.0000	.0000	.0447	.0000
E6542	AVG	I	.0000	.0861	.1898	.0000	.2759	.0545	.0545	.0842	.0195	.0065	.1163	.0000	.3305	
		M	.0030	.0657	.4702	.0143	.5503	.0842	.0195	.0065	.1163	.0000	.0000	.0000	.6695	
E7040	AVG	I	.0000	.4444	.2222	.0000	.6667	.0000	.6667	.0000	.0000	.0000	.0000	.0000	.6667	
		M	.1111	.0000	.1111	.0000	.1111	.0000	.0000	.0000	.0000	.0000	.0000	.1111	.3333	
E7042	AVG	I	.0000	.1687	.1226	.0029	.2942	.0677	.2942	.0826	.0000	.0000	.0677	.0000	.3620	
		M	.0043	.0648	.4614	.0206	.5469	.0826	.0000	.0000	.0000	.0000	.0869	.0000	.6380	
E7044	AVG	I	.0000	.1347	.1141	.0006	.2495	.0620	.2495	.1014	.0525	.0030	.0620	.0000	.3147	
		M	.0007	.0901	.4137	.0115	.5156	.1014	.0525	.0030	.0620	.0000	.0620	.0000	.6853	

Appendix Table 1. Fractional age/maturity composition estimates for each month/year/INPFC area stratum in which a landbased driftnet catch was made, May-June, 1972-81, southeast of 160°E, 50°N. "AVG" indicates estimates derived as an average of adjacent areas. "I" indicates immatures, "M" maturing fish. See text for description of age group - cont'd.

MONTH	YEAR	AREA	METHOD	MAT.	I.1	1.2	2.2	3.2	I.2	1.3	2.3	3.3	I.3	I.4	TOTAL		
MAY	1980	E6042		I	.0000	.1646	.2744	.0183	.4573	.0488	.0061	.0000	.0549	.0000	.5122		
				M	.0000	.1037	.2744	.0549	.4329	.0549	.0000	.0549	.0000	.4878			
		E6540	AVG	I	.0028	.1642	.2598	.0143	.4412	.0405	.0651	.0000	.0000	.0000	.0000	.4845	
				M	.0000	.0890	.2427	.0346	.3663	.0766	.0651	.0000	.1445	.0047	.0000	.5155	
		E6542		I	.0000	.0357	.0833	.0000	.1190	.0714	.1548	.2976	.0000	.0000	.4524	.0238	.1905
				M	.0000	.0714	.2500	.0119	.3333	.1548	.2976	.0000	.4524	.0000	.0000	.8095	
		E6546		I	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.4063	.4375	.0000	.0000	.0000	.0000
				M	.0000	.0156	.0938	.0469	.1563	.4063	.4375	.0000	.8438	.0000	.0000	.0180	
		E6548	AVG	I	.0000	.0000	.0149	.0000	.0149	.0000	.0032	.7144	.0071	.0000	.0000	.0000	.9820
				M	.0000	.0501	.1753	.0351	.2605	.2912	.4232	.0000	.7144	.0071	.0000	.0000	.9820
		E7042		I	.0088	.2456	.3509	.0175	.6228	.2807	.0704	.0088	.0000	.0000	.0000	.0000	.6316
				M	.0000	.0789	.1930	.0088	.2807	.0704	.0088	.0000	.0877	.0000	.0000	.0000	.3684
		E7044		I	.0000	.2629	.3029	.0171	.5829	.2629	.0400	.0400	.0000	.0000	.0000	.0000	.6571
				M	.0000	.0171	.1829	.0629	.2629	.0400	.0400	.0000	.0800	.0000	.0000	.0000	.3429
E7046		I	.0000	.0000	.0134	.0000	.0134	.0000	.0134	.0134	.0000	.0000	.0134	.0000	.0268		
		M	.0000	.0201	.2483	.0336	.3020	.2416	.4161	.0000	.6577	.0134	.0000	.0000	.9732		
JUNE	1980	E6040	AVG	I	.0000	.3093	.5362	.0929	.9383	.0000	.0000	.0000	.0000	.0103	.9486		
				M	.0000	.0103	.0412	.0000	.0514	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0514
		E6042		I	.0000	.3200	.5000	.0600	.8800	.0000	.0000	.0000	.0000	.0000	.0000	.9000	
				M	.0000	.0200	.0800	.0000	.1000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.1000
		E6542		I	.0000	.2979	.5745	.1277	1.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	1.0000
				M	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000
		E6548	AVG	I	.0000	.0106	.0748	.0101	.0955	.0393	.1349	.0000	.0000	.0000	.0000	.0000	.1349
				M	.0001	.0412	.3044	.0397	.3854	.1224	.3502	.0041	.4781	.0015	.0000	.0000	.8651
		E7042		I	.0000	.2679	.3929	.0714	.7321	.1071	.1071	.0000	.0000	.0000	.0000	.0000	.8393
				M	.0000	.0179	.0179	.0000	.0357	.0714	.0536	.0000	.1250	.0000	.0000	.0000	.1607
		E7044	AVG	I	.0000	.1032	.1949	.0322	.3303	.0537	.0537	.0000	.0000	.0000	.0000	.0000	.3840
				M	.0000	.0518	.2886	.0301	.3704	.0925	.1503	.0012	.2446	.0009	.0000	.0000	.6160
		MAY	1981	E6042	AVG	I	.0000	.0725	.1317	.0153	.2194	.1009	.2581	.0457	.0000	.0156	.2351
						M	.0000	.0408	.2485	.0617	.3509	.1009	.2581	.0457	.4084	.0057	.0000
E6542				I	.0000	.1964	.1250	.0179	.3393	.0536	.0357	.0000	.0000	.0000	.0000	.3929	
				M	.0000	.0714	.3929	.0714	.5357	.0357	.0357	.0000	.0714	.0000	.0000	.6071	
E7042				I	.0000	.1071	.1429	.0000	.2500	.0000	.0000	.0000	.0000	.0000	.0000	.2500	
				M	.0000	.2143	.3214	.0000	.5357	.1071	.0714	.0000	.2143	.0000	.0000	.7500	
E7044	AVG			I	.0000	.1090	.1609	.0167	.2866	.0489	.1715	.0197	.0000	.0000	.0000	.3364	
				M	.0000	.0502	.2403	.0430	.3335	.1261	.1715	.0197	.3240	.0061	.0000	.6636	
E7046				I	.0000	.0379	.0521	.0095	.0995	.0616	.0616	.0000	.0000	.0000	.0000	.1611	
				M	.0000	.0569	.3602	.0521	.4692	.1611	.1943	.0142	.3697	.0000	.0000	.8389	

Appendix Table 1. Fractional age/maturity composition estimates for each month/year/INPFC area stratum in which a landbased driftnet catch was made, May-June, 1972-81, southeast of 160°E, 50°N. "AVG" indicates estimates derived as an average of adjacent areas. "I" indicates immatures, "M" maturing fish. See text for description of age group - cont'd.

MONTH	YEAR	AREA	METHOD	MAT.	T.1	1.2	2.2	3.2	I.2	1.3	2.3	3.3	I.3	T.4	TOTAL	
JUNE	1981	E6042	AVG	I	.0000	.2087	.4675	.0268	.7163	.0000	.0000	.0000	.0000	.0000	.7163	
				M	.0000	.0000	.2597	.0240	.2837	.0000	.0000	.0000	.0000	.0000	.0000	.0000
		E6542		I	.0000	.3636	.5152	.0506	.9697	.0000	.0000	.0000	.0000	.0000	.0000	.9697
				M	.0000	.0000	.0303	.0000	.0303	.0000	.0000	.0000	.0000	.0000	.0000	.0000
		E6544	AVG	I	.0000	.1804	.2487	.0809	.5119	.0000	.0522	.0766	.0116	.0429	.0006	.5548
				M	.0000	.0689	.2075	.0254	.3018	.0000	.0000	.0000	.0000	.0000	.0000	.0000
		E6546		I	.0000	.2840	.2840	.1728	.7407	.0000	.0123	.0617	.0123	.0864	.0000	.7901
				M	.0000	.0123	.1111	.0000	.1235	.0000	.0000	.0000	.0000	.0000	.0000	.0000
		E6548	AVG	I	.0000	.1307	.1509	.0669	.3484	.0000	.0887	.1235	.0170	.0642	.0006	.4126
				M	.0000	.0877	.2383	.0290	.3549	.0000	.0000	.0000	.0000	.0000	.0000	.0000
		E7042	AVG	I	.0000	.2724	.5411	.0299	.8583	.0000	.0000	.0000	.0000	.0000	.0000	.8583
				M	.0000	.0198	.0951	.0267	.1417	.0000	.0000	.0000	.0000	.0000	.0000	.0000
	E7044	AVG	I	.0000	.2177	.2752	.0830	.5781	.0000	.0413	.0704	.0125	.1261	.0005	.6251	
			M	.0000	.0608	.1674	.0201	.2483	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.3749

*Averages for E6042 and E6542 in May 1977 are unweighted mean proportions for the same area/month, over all years 1972-76 and 1978-81.

Appendix Table 2. North American (NA) and Bristol Bay (BB) stock proportion estimates for each month/year/INPFC area stratum in which a landbased driftnet catch occurred, May and June, 1972-81, southeast of 160°E, 50°N. Letters indicate method by which estimates were derived.¹

MONTH YEAR AREA	IMMATURES						MATURING											
	1.2		2.2		1.2		2.2		1.3		2.3							
	NA	BB	NA	BB	NA	BB	NA	BB	NA	BB	NA	BB						
MAY 1972 E6042	.1359	.0785	A	.0417	.0417	A	.0000	.0000	A	.0355	.0355	A	.2840	.2840	D	.2562	.2562	D
E6044	.1359	.0785	A	.0445	.0445		.0000	.0000		.0109	.0109		.2840	.2840	D	.2562	.2562	D
E6544	.1359	.0785	A	.0417	.0417	A	.0000	.0000	A	.1278	.1278		.2840	.2840	D	.2562	.2562	D
E7042	.1359	.0785	A	.0417	.0417	A	.0000	.0000		.0355	.0355	A	.2840	.2840	D	.2562	.2562	D
E7044	.1359	.0785	A	.0417	.0417	A	.0000	.0000	A	.0355	.0355	A	.2840	.2840	D	.2562	.2562	D
E7544	.0000	.0000	B*	.6234	.4649	B*	.5478	.5478	D	.3852	.3852	D	.1698	.1529	D	.7344	.7344	D
8044	.0000	.0000	C*	.6234	.4649	C*	.5478	.5478	D	.3852	.3852	D	.1698	.1529	D	.7344	.7344	D
JUNE 1972 E6042	.3169	.3072	D	.0255	.0000	A	.0000	.0000	A	.0788	.0788	A	.0815	.0000	D	.2122	.2122	D
E6044	.3169	.3072	D	.0255	.0000	A	.0000	.0000	A	.0788	.0788	A	.0815	.0000	D	.2122	.2122	D
E6542	.3169	.3072	D	.0255	.0000	A	.0000	.0000	A	.0788	.0788	A	.0815	.0000	D	.2122	.2122	D
E6544	.3169	.3072	D	.0738	.0000		.0000	.0000	A	.0505	.0505		.0815	.0000	D	.2122	.2122	D
E6546	.3444	.3444		.1743	.1743		.0000	.0000	A	.0164	.0164	A	.0815	.0000	A	.2122	.2122	A
E7042	.3169	.3072	D	.0255	.0000	A	.0000	.0000	A	.0788	.0788	A	.0815	.0000	D	.2122	.2122	D
E7044	.3169	.3072	D	.0255	.0000	A	.0000	.0000	A	.0788	.0788	A	.0815	.0000	D	.2122	.2122	D
E7544	.1756	.1047	D	.4722	.3477	D	.5019	.0915	D	.6505	.3766	D	.6599	.6449	E*	.7211	.6283	E*
8044	.1756	.1047	D	.4722	.3477	D	.5019	.0915	D	.6505	.3766	D	.6599	.6449	E*	.7211	.6283	E*
MAY 1973 E6042	.1750	.1750	A	.0286	.0286	A	.0846	.0460	A	.0153	.0000	A	.1856	.1856	A	.0000	.0000	A
E6044	.1750	.1750	A	.0286	.0286	A	.0846	.0460	A	.0000	.0000		.1856	.1856	A	.0000	.0000	A
E6542	.1750	.1750	A	.0123	.0123		.0846	.0460	A	.0153	.0000	A	.1856	.1856	A	.0000	.0000	A
E6544	.1750	.1750	A	.0000	.0000		.0846	.0460	A	.0936	.0000		.1856	.1856	A	.0139	.0139	
E7042	.1750	.1750	A	.0286	.0286	A	.0846	.0460	A	.0153	.0000	A	.1856	.1856	A	.0000	.0000	A
E7044	.2292	.2292		.0445	.0445		.0846	.0460	A	.0456	.0067		.1856	.1856	A	.0000	.0000	A
E7542	.0000	.0000	C*	.6234	.4649	C*	.6741	.6433	E*	.4298	.3363	E	.2816	.1564	D	.6565	.5671	E
E7544	.0000	.0000	B*	.6234	.4649	B*	.6741	.6433	E*	.4298	.3363	E	.2816	.1564	D	.6565	.5671	E
8044	.0000	.0000	C*	.6234	.4649	C*	.6741	.6433	E*	.4298	.3363	E	.2816	.1564	D	.6565	.5671	E

Appendix Table 2. North American (NA) and Bristol Bay (BB) stock proportion estimates for each month/year/INPFC area stratum in which a landbased driftnet catch occurred, May and June, 1972-81, southeast of 160°E, 50°N. Letters indicate method by which estimates were derived - cont'd.1

MONTH YEAR AREA	IMMATURES						MATURING					
	1.2		2.2		1.2		2.2		1.3		2.3	
	NA	BB	NA	BB	NA	RB	NA	BB	NA	BB	NA	BB
JUNE 1973												
E6042	.1381	.1381 D	.0439	.0354 C	.3256	.0454 D	.1084	.0539 A	.0000	.0000 D	.0000	.0000 D
E6044	.1381	.1381 D	.0439	.0354 C	.3256	.0454 D	.1084	.0539 A	.0000	.0000 D	.0000	.0000 D
E6542	.1381	.1381 D	.0439	.0354 C	.3256	.0454 D	.1084	.0539 A	.0000	.0000 D	.0000	.0000 D
E6544	.1381	.1381 D	.0674	.0674	.3256	.0454 D	.0911	.0000 D	.0000	.0000 D	.0000	.0000 D
E7042	.1381	.1381 D	.0439	.0354 C	.3256	.0454 D	.1084	.0539 A	.0000	.0000 D	.0000	.0000 D
E7044	.5054	.1277	.0321	.0321	.3256	.0454 D	.1084	.0539 A	.0000	.0000 D	.0000	.0000 D
E7542	.6223	.0618 A	.5344	.4113 D	.5019	.0915 E*	.6329	.4959 E*	.6599	.6449 E*	.7211	.6283 E*
E7544	.6223	.0618 A	.5344	.4113 D	.5019	.0915 E*	.6329	.4959 E*	.6599	.6449 E*	.7211	.6283 E*
8044	.6223	.0618 A	.5344	.4113 D	.5019	.0915 E*	.6329	.4959 E*	.6599	.6449 E*	.7211	.6283 E*
MAY 1974												
E6044	.1159	.1159 A	.0000	.0000	.1707	.1578 C	.1790	.0331	.3532	.3532 D	.0000	.0000 D
E6542	.1159	.1159 A	.0901	.0198 A	.1707	.1578 C	.0404	.0404 A	.3532	.3532 D	.0000	.0000 D
E6544	.1173	.1173	.1101	.0205	.0072	.0000	.0302	.0302	.3532	.3532 D	.0000	.0000 D
E7042	.1159	.1159 A	.0901	.0198 A	.1707	.1578 C	.0404	.0404 A	.3532	.3532 D	.0000	.0000 D
E7044	.1159	.1159 A	.0901	.0198 A	.1707	.1578 C	.0404	.0404 A	.3532	.3532 D	.0000	.0000 D
E7544	.0000	.0000 B*	.6234	.4649 B*	.6741	.6433 E*	.4298	.3363 E	.3956	.3601 E	.6565	.5671 E
8042	.0000	.0000 C*	.6234	.4649 C*	.6741	.6433 E*	.4298	.3363 E	.3956	.3601 E	.6565	.5671 E
8044	.0000	.0000 C*	.6234	.4649 C*	.6741	.6433 E*	.4298	.3363 E	.3956	.3601 E	.6565	.5671 E
JUNE 1974												
E6044	.3236	.3236 D	.0703	.0703 A	.0418	.0000 A	.0926	.0790 C	.0000	.0000 D	.0000	.0000 D
E6544	.3236	.3236 D	.0000	.0000	.0418	.0000 A	.0926	.0790 C	.0000	.0000 D	.0000	.0000 D
E7042	.3236	.3236 D	.0703	.0703 A	.0418	.0000 A	.0926	.0790 C	.0000	.0000 D	.0000	.0000 D
E7044	.3236	.3236 D	.0703	.0703 A	.0418	.0000 A	.0926	.0790 C	.0000	.0000 D	.0000	.0000 D
E7544	.2899	.2899 D	.7882	.7396 D	.5019	.0915 E*	.6329	.4959 E*	.6599	.6449 E*	.7211	.6283 E*
8044	.2899	.2899 D	.7882	.7396 D	.5019	.0915 E*	.6329	.4959 E*	.6599	.6449 E*	.7211	.6283 E*
MAY 1975												
E6042	.0000	.0000 A	.1246	.1033 A	.1707	.1578 A	.0000	.0000	.3747	.3747 D	.2741	.1385 D
E6044	.0000	.0000 A	.1610	.0000	.1707	.1578 A	.0201	.0000	.3747	.3747 D	.2741	.1385 D
E6542	.0000	.0000 A	.1246	.1033 A	.1707	.1578 A	.0986	.0000	.3747	.3747 D	.2741	.1385 D
E6544	.0000	.0000 A	.0991	.0865	.1707	.1578 A	.3020	.0000	.3747	.3747 D	.2741	.1385 D
E7042	.0000	.0000 A	.1246	.1033 A	.1707	.1578 A	.0462	.0412 C	.3747	.3747 D	.2741	.1385 D
E7044	.0000	.0000 A	.1246	.1033 A	.1707	.1578 A	.0462	.0412 C	.3747	.3747 D	.2741	.1385 D
E7544	.0000	.0000	.6234	.4649	.6741	.6433 E*	.4709	.3597 D	.6031	.6031 D	.6039	.4373 D
8044	.0000	.0000 A	.6234	.4649 A	.6741	.6433 E*	.4709	.3597 D	.6031	.6031 D	.6039	.4373 D

Appendix Table 2. North American (NA) and Bristol Bay (BB) stock proportion estimates for each month/year/INPFC area stratum in which a landbased driftnet catch occurred, May and June, 1972-81, southeast of 160°E, 50°N. Letters indicate method by which estimates were derived - cont'd.1

MONTH YEAR AREA	IMMATURES						MATURING											
	1.2		2.2		1.2		2.2		1.3		2.3							
	NA	BB	NA	BB	NA	BB	NA	BB	NA	BB	NA	BB						
JUNE 1975	.2595	.2563	E	.0358	.0358	A	.3115	.1240	E	.0000	.0000	A	.0204	.0000	E	.0609	.0609	E
E6044	.2595	.2563	E	.0358	.0358	A	.3115	.1240	E	.0000	.0000	A	.0204	.0000	E	.0609	.0609	E
E6542	.2595	.2563	E	.1520	.1520	E	.3115	.1240	E	.0000	.0000	A	.0204	.0000	E	.0609	.0609	E
E6544	.2595	.2563	E	.0000	.0000	A	.3115	.1240	F	.0000	.0000	A	.0204	.0000	E	.0609	.0609	E
E7044	.2595	.2563	E	.0358	.0358	A	.3115	.1240	E	.0000	.0000	A	.0204	.0000	E	.0609	.0609	E
E7544	.4437	.3305	F	.5999	.4995	E	.5019	.0915	E*	.6329	.4959	E*	.6599	.6449	E*	.7211	.6283	E*
MAY 1976	.1067	.0924	C	.0713	.0484	C	.4275	.4275	A	.0936	.0889	A	.0000	.0000	A	.2037	.0788	A
E6044	.1067	.0924	C	.0685	.0148	B	.4275	.4275	A	.1166	.0826	A	.0000	.0000	A	.2037	.0788	A
E6542	.1067	.0924	C	.0713	.0484	C	.4275	.4275	A	.0936	.0889	A	.0000	.0000	A	.2037	.0788	A
E6544	.1067	.0924	C	.0697	.0357	C	.1643	.1643		.1386	.1386		.0000	.0000	A	.2037	.0788	A
E7042	.1067	.0924	C	.0713	.0484	C	.4275	.4275	A	.0936	.0889	A	.0000	.0000	A	.2037	.0788	A
E7044	.1067	.0924	C	.0713	.0484	C	.4275	.4275	A	.1365	.1122		.0000	.0000	A	.2037	.0788	A
E7544	.0000	.0000	B*	.6234	.4649	B*	.8004	.7388	D	.4334	.2641	D	.5279	.5279	D	.6312	.5296	D
8044	.0000	.0000	C*	.6234	.4649	C*	.8004	.7388	D	.4334	.2641	D	.5279	.5279	D	.6312	.5296	D
JUNE 1976	.2595	.2563	E	.0439	.0354	C	.3247	.3247	D	.1832	.1832	A	.0000	.0000	D	.0312	.0312	D
E6044	.2595	.2563	E	.0439	.0354	C	.3247	.3247	D	.0000	.0000		.0000	.0000	D	.0312	.0312	D
E6046	.2595	.2563	E	.0933	.0889	C	.3247	.3247	A	.3256	.3256		.0000	.0000	A	.0312	.0312	A
E6542	.2595	.2563	E	.0439	.0354	C	.3247	.3247	D	.1832	.1832	A	.0000	.0000	D	.0312	.0312	D
E6544	.2595	.2563	E	.0353	.0354	B	.3247	.3247	D	.1832	.1832	A	.0000	.0000	D	.0312	.0312	D
E6546	.2595	.2563	C	.0933	.0889	C	.3247	.3247	A	.2123	.1895		.0000	.0000	A	.0312	.0312	A
E7042	.2595	.2563	E	.0439	.0354	C	.3247	.3247	D	.1832	.1832	A	.0000	.0000	D	.0312	.0312	D
E7044	.2595	.2563	E	.0439	.0354	C	.3247	.3247	D	.1832	.1832	A	.0000	.0000	D	.0312	.0312	D
E7542	.4437	.3305	E	.5999	.4995	E	.5019	.0915	E*	.6152	.6152	D	.6559	.6449	D	.7211	.6283	D
E7544	.4437	.3305	E	.5999	.4995	E	.5019	.0915	E*	.6152	.6152	D	.6559	.6449	D	.7211	.6283	D
8044	.4437	.3305	E	.5999	.4995	E	.5019	.0915	F*	.6152	.6152	D	.6559	.6449	D	.7211	.6283	D
MAY 1977	.1067	.0924	C	.0713	.0484	C	.1707	.1578	C	.0370	.0326	F	.2395	.2395	G	.1468	.0947	G
E6044	.1067	.0924	C	.0685	.0148	B	.1707	.1578	F	.0653	.0253	B	.2395	.2395	G	.1468	.0947	G
E6542	.1067	.0924	C	.0672	.0443	F	.1707	.1578	C	.0567	.0330	F	.2395	.2395	G	.1468	.0947	G
E6544	.1701	.0927	F	.0697	.0357	B	.0640	.0526	F	.1384	.0593	B	.2395	.2395	G	.1559	.0975	F
E7044	.1203	.1059	F	.0752	.0523	F	.1707	.1578	C	.0645	.0487	F	.2395	.2395	G	.1468	.0947	G

Appendix Table 2. North American (NA) and Bristol Bay (BB) stock proportion estimates for each month/year/INPFC area stratum in which a landbased driftnet catch occurred, May and June, 1972-81, southeast of 160°E, 50°N. Letters indicate method by which estimates were derived - cont'd.1

MONTH YEAR AREA	IMMATURES												MATURING											
	1.2		2.2		1.2		2.2		1.3		2.3		1.2		2.2		1.3		2.3					
	NA	BB	NA	BB	NA	BB	NA	BB	NA	BB	NA	BB	NA	BB	NA	BB	NA	BB	NA	BB				
JUNE 1977	E6042	.2595	.2563	E	.0439	.0354	C	.1730	.0930	G	.0926	.0790	C	.0204	.0000	E	.0609	.0609	E	.0609	.0609	E		
	E6044	.2595	.2563	E	.0439	.0354	C	.1730	.0930	G	.0468	.0332	F	.0204	.0000	E	.0609	.0609	E	.0609	.0609	E		
	E6046	.2595	.2563	C	.0993	.0889	C	.3115	.1240	C	.1438	.0519	B	.0204	.0000	C	.0609	.0609	C	.0609	.0609	C		
	E6542	.2595	.2563	E	.0809	.0354	F	.1730	.0930	G	.0926	.0790	C	.0204	.0000	F	.0609	.0609	E	.0609	.0609	E		
	E6544	.2595	.2563	L	.0353	.0169	B	.1730	.0930	G	.1098	.0794	B	.0204	.0000	E	.0609	.0609	E	.0609	.0609	E		
	E7042	.2595	.2563	E	.0439	.0354	F	.1730	.0930	G	.0926	.0790	C	.0204	.0000	E	.0609	.0609	E	.0609	.0609	E		
	E7044	.3820	.2528	F	.0409	.0344	F	.1730	.0930	G	.0926	.0790	C	.0204	.0000	E	.0609	.0609	E	.0609	.0609	E		
	E7544	.3626	.1521	G	.5999	.4995	E	.5019	.0915	E*	.6329	.4959	E*	.6599	.6499	E*	.7211	.6283	E*	.7211	.6283	E*		
MAY 1978	E6040	.1067	.0924	C	.0713	.0484	C	.1707	.1578	C	.0462	.0412	C	.2395	.2395	G	.1468	.0947	G	.1468	.0947	G		
	E6042	.1067	.0924	C	.0713	.0484	C	.1707	.1578	C	.0370	.0326	F	.2395	.2395	G	.1468	.0947	G	.1468	.0947	G		
	E6540	.1067	.0924	C	.0713	.0484	C	.1707	.1578	C	.0462	.0412	C	.2395	.2395	G	.1468	.0947	G	.1468	.0947	G		
	E6542	.1067	.0924	C	.0672	.0443	F	.1707	.1578	F	.0567	.0330	F	.2395	.2395	G	.1468	.0947	G	.1468	.0947	G		
	E7040	.1067	.0924	C	.0713	.0484	C	.1707	.1578	C	.0462	.0412	C	.2395	.2395	G	.1468	.0947	G	.1468	.0947	G		
	E7042	.1067	.0924	C	.0713	.0484	C	.1707	.1578	C	.0462	.0412	C	.2395	.2395	G	.1468	.0947	G	.1468	.0947	G		
	E7044	.1203	.1059	F	.0752	.0523	F	.1707	.1578	C	.0645	.0487	F	.2395	.2395	G	.1468	.0947	G	.1468	.0947	G		
JUNE 1978	E6042	.2595	.2563	E	.0439	.0354	C	.1730	.0930	G	.0926	.0790	C	.0204	.0000	E	.0609	.0609	E	.0609	.0609	E		
	E6542	.2595	.2563	E	.0809	.0741	F	.1730	.0930	G	.0926	.0790	C	.0204	.0000	E	.0609	.0609	E	.0609	.0609	E		
	E7042	.2595	.2563	E	.0439	.0354	C	.1730	.0930	G	.0926	.0790	C	.0204	.0000	E	.0609	.0609	E	.0609	.0609	E		
	E7044	.3820	.2528	F	.0409	.0344	F	.1730	.0930	G	.0926	.0790	C	.0204	.0000	E	.0609	.0609	E	.0609	.0609	E		
MAY 1979	E6042	.1067	.0924	C	.0713	.0484	C	.1707	.1578	C	.0370	.0326	F	.2395	.2395	G	.1468	.0947	G	.1468	.0947	G		
	E6540	.1067	.0924	C	.0713	.0484	C	.1707	.1578	C	.0462	.0412	C	.2395	.2395	G	.1468	.0947	G	.1468	.0947	G		
	E6542	.1067	.0924	C	.0672	.0443	F	.1707	.1578	C	.0567	.0330	F	.2395	.2395	G	.1468	.0947	G	.1468	.0947	G		
	E7040	.1067	.0924	C	.0713	.0484	C	.1707	.1578	C	.0462	.0412	C	.2395	.2395	G	.1468	.0947	G	.1468	.0947	G		
	E7042	.1067	.0924	C	.0713	.0484	C	.1707	.1578	C	.0462	.0412	C	.2395	.2395	G	.1468	.0947	G	.1468	.0947	G		
	E7044	.1203	.1059	F	.0752	.0523	F	.1707	.1578	C	.0645	.0487	F	.2395	.2395	G	.1468	.0947	G	.1468	.0947	G		
JUNE 1979	E6042	.2595	.2563	E	.0439	.0354	C	.1730	.0930	G	.0926	.0790	C	.0204	.0000	E	.0609	.0609	E	.0609	.0609	E		
	E6540	.2595	.2563	E	.0439	.0354	C	.1730	.0930	G	.0926	.0790	C	.0204	.0000	E	.0609	.0609	E	.0609	.0609	E		
	E6542	.2595	.2563	E	.0809	.0741	F	.1730	.0930	G	.0926	.0790	C	.0204	.0000	E	.0609	.0609	E	.0609	.0609	E		
	E7040	.2595	.2563	E	.0439	.0354	C	.1730	.0930	G	.0926	.0790	C	.0204	.0000	E	.0609	.0609	E	.0609	.0609	E		
	E7042	.2595	.2563	E	.0439	.0354	C	.1730	.0930	G	.0926	.0790	C	.0204	.0000	E	.0609	.0609	E	.0609	.0609	E		
	E7044	.3820	.2528	F	.0409	.0344	F	.1730	.0930	G	.0926	.0790	C	.0204	.0000	E	.0609	.0609	E	.0609	.0609	E		

Appendix Table 2. North American (NA) and Bristol Bay (BB) stock proportion estimates for each month/year/INPFC area stratum in which a landbased driftnet catch occurred, May and June, 1972-81, southeast of 160°E, 50°N. Letters indicate method by which estimates were derived - cont'd.¹

MONTH YEAR AREA	IMMATURES						MATURING												
	1.2		2.2		1.2		2.2		1.3		2.3								
	NA	BB	NA	BB	NA	BR	NA	BB	NA	BB	NA	BB							
MAY 1980	E6042	.1067	.0924	C	.0713	.0484	C	.1707	.1578	C	.0370	.0326	F	.2395	.2395	G	.1468	.0947	G
	E6540	.1067	.0924	C	.0713	.0484	C	.1707	.1578	C	.0462	.0412	C	.2395	.2395	G	.1468	.0947	G
	E6542	.1067	.0924	C	.0762	.0443	F	.1707	.1578	C	.0567	.0330	F	.2395	.2395	G	.1468	.0947	G
	E6546	.0914	.0806	G	.1240	.0800	G	.2477	.1425	F	.2014	.0815	F	.0996	.0996	B	.1238	.1187	B
	E6548	.0914	.0806	G	.1240	.0800	G	.2549	.1547	G	.1913	.0947	F	.1878	.1840	B	.1224	.1018	B
	E7042	.1067	.0924	C	.0713	.0484	C	.1707	.1578	C	.0462	.0412	C	.2395	.2395	G	.1468	.0947	G
	E7044	.1203	.1059	F	.0752	.0523	F	.1707	.1578	C	.0645	.0487	F	.2395	.2337	G	.1468	.1173	G
	E7046	.0807	.0727	F	.1383	.1037	F	.2549	.1547	G	.2234	.1127	F	.1970	.1970	F	.1459	.1147	F
JUNE 1980	E6040	.2595	.2563	E	.0439	.0354	C	.1730	.0930	G	.0926	.0790	C	.0204	.0000	E	.0609	.0609	E
	E6042	.2595	.2563	E	.0439	.0354	C	.1730	.0930	G	.0926	.0790	C	.0204	.0000	E	.0609	.0609	E
	E6542	.2595	.2563	E	.0809	.0741	F	.1730	.0930	G	.0926	.0790	C	.0204	.0000	E	.0609	.0609	E
	E6548	.2608	.2608	F	.0766	.0594	F	.3115	.1240	C	.1309	.0330	R	.0204	.0000	C	.0720	.0720	B
	E7042	.2595	.2563	E	.0439	.0354	C	.1730	.0930	G	.0926	.0790	C	.0204	.0000	E	.0609	.0609	E
	E7044	.3820	.2528	F	.0409	.0344	F	.1730	.0930	G	.0926	.0790	C	.0204	.0000	E	.0609	.0609	E
MAY 1981	E6042	.1067	.0924	C	.0713	.0484	C	.1707	.1578	C	.0370	.0326	F	.2395	.2395	G	.1468	.0947	G
	E6542	.1067	.0924	C	.0672	.0443	F	.1707	.1578	C	.0567	.0330	F	.2395	.2395	G	.1468	.0947	G
	E7042	.1067	.0924	C	.0713	.0484	C	.1707	.1578	C	.0462	.0412	C	.2395	.2395	G	.1468	.0947	G
	E7044	.1203	.1059	F	.0752	.0523	F	.1707	.1578	C	.0645	.0487	F	.2395	.2395	G	.1468	.0947	G
	E7046	.0807	.0727	F	.1383	.1037	F	.2549	.1578	G	.2334	.1127	F	.1970	.1970	F	.1459	.1147	F
JUNE 1981	E6042	.2595	.2563	E	.0439	.0354	G	.1730	.0930	G	.0926	.0790	C	.0204	.0000	E	.0609	.0609	E
	E6542	.2595	.2563	E	.0809	.0741	C	.1730	.0930	G	.0926	.0790	C	.0204	.0000	E	.0609	.0609	E
	E6544	.2595	.2563	E	.0353	.0169	F	.1730	.0930	G	.1098	.0794	C	.0204	.0000	E	.0609	.0609	E
	E6546	.2687	.2687	E	.0849	.0805	B	.3115	.1240	G	.1918	.0754	B	.0204	.0000	E	.0609	.0609	E
	E6548	.2608	.2608	C	.0766	.0594	F	.3115	.1240	C	.1309	.0330	R	.0204	.0000	C	.0720	.0720	F
	E7042	.2595	.2563	F	.0439	.0354	F	.1730	.0930	C	.0926	.0790	B	.0204	.0000	C	.0609	.0609	B
	E7044	.3820	.2528	E	.0409	.0344	G	.1730	.0930	C	.0926	.0790	C	.0204	.0000	E	.0609	.0609	E

¹Blank = direct area estimate
A = quadrat estimate
B = average area
C = average quadrat
D = adjacent quadrat
E = average adjacent quadrat
F = average area with quadrat substitution
G = average quadrat with adjacent quadrat substitutions
"*" indicates less than three values were available to compute the mean.

Appendix Table 3. Age and maturity composition estimates in numbers of fish for each month/year/INPFC area stratum in which a landbased driftnet catch occurred, May-June, 1972-81, southeast of 160°E, 50°N. Individual estimates may not sum to total due to rounding - cont'd.

MONTH	YEAR	AREA	CATCH	MAT.	I.1	1.2	2.2	3.2	I.2	1.3	2.3	3.3	I.3	I.4	TOTAL
MAY	1973	E6042	217	I	0	5	72	16	93				3		96
				M	0	7	74	18	99	10	8	1	22	0	121
		E6044	770715	I	0	7168	58728	7476	73449	23738	21965	10096	10636	0	84085
				M	2929	34297	516996	76532	627824				55877	0	686630
		E6542	12323	I	0	253	7098	1344	8694				0	0	8694
				M	0	399	1755	239	2393	742	248	0	1236	0	3629
		E6544	992505	I	0	20981	232445	71460	332985	40693	63322	4367	29180	0	362165
				M	3772	28485	348965	136172	513621				112947	0	630340
		E7042	63	I	0	3	25	5	33				2		35
				M	0	3	16	4	22	3	2	0	6	0	28
		E7044	562804	I	394	43674	211502	50090	305265	18235	11650	2589	17897	0	323500
				M	0	24820	148299	28916	201990				37314	0	239304
		E7542	692	I	0	53	265	55	373				27		401
				M	0	35	175	34	245	20	18	3	46	0	291
		E7544	204917	I	0	15102	90860	0	105963				21209	0	127171
				M	0	21229	35348	7049	63627	0	14119	0	14119	0	77746
		8044	73505	I	0	5417	32592	0	38009				7608	0	45617
				M	0	7615	12680	2529	22823	0	5064	0	5064	0	27888
		TOTAL	2617741	I	394	100656	633507	130446	864864	83441	116396	17056	86562	0	951764
				M	6701	116890	1064308	251393	1432644				226631	0	1665977
JUNE	1973	E6042	1490	I	11	127	586	185	898				63		972
				M	15	30	257	168	455	33	15	0	48	0	518
		E6044	273598	I	1313	7825	81724	25855	115376	7168	9631	1751	13817	0	130534
				M	1204	5089	81040	34419	120575				21313	0	143064
		E6542	58	I	0	9	35	7	51				1		52
				M	0	0	3	2	5	0	0	0	1	0	6
		E6544	228906	I	1717	18496	89708	27721	135901	5173	2358	0	9980	0	147621
				M	2381	4830	39898	26645	71373				7531	0	81285
		E7042	1110	I	6	177	669	138	984				13		1004
				M	3	6	53	34	93	7	3	0	10	0	106
		E7044	52341	I	141	9165	36131	6831	52132				0	0	52273
				M	0	0	68	0	68	0	0	0	0	0	68
		E7542	373	I	2	70	254	47	371				0	0	373
				M	0	0	0	0	0	0	0	0	0	0	0
		E7544	14103	I	20	2828	7545	1433	11927				365		12312
				M	0	485	994	200	1680	66	21	24	111	0	1791
		8044	6650	I	14	2073	2273	248	4595				65		4673
				M	0	659	1154	165	1977	0	0	0	0	0	1977
		TOTAL	578629	I	3224	40770	218925	62465	322235	12447	12028	1775	24304	0	349814
				M	3603	11099	123467	61633	196226				29014	0	228815
		TOTAL	3196370	I	3618	141426	852512	192911	1187099	95888	128424	18831	110866	0	1301578
				M	10304	127989	1187775	313026	1628870				255645	0	1894792

Appendix Table 3. Age and maturity composition estimates in numbers of fish for each month/year/INPFC area stratum in which a landbased driftnet catch occurred, May-June, 1972-81, southeast of 160°E, 50°N. Individual estimates may not sum to total due to rounding - cont'd.

MONTH	YEAR	AREA	CATCH	MAT.	T.1	1.2	2.2	3.2	T.2	1.3	2.3	3.3	T.3	1.4	TOTAL		
MAY	1974	E6044	219000	I	0	18856	35587	3307	57728	438	2234	0	2738	0	60456		
				M	1007	20367	103105	28251	151723	438	151723	0	5804	0	158534		
		E6544	5000	I	15	530	982	255	1767	5	173	0	138	0	3087	0	1914
				M	34	430	1732	719	2880	5	2880	0	173	0	43229	0	744845
		E6544	1555000	I	7464	194219	381442	118335	693997	1244	62822	0	68420	0	810155	0	810155
				M	13995	40119	526678	160943	727896	1244	727896	0	68420	0	810155	0	810155
		E7042	1000	I	4	114	210	65	389	32	32	0	32	0	425	0	425
				M	8	83	297	150	530	1	530	0	38	0	575	0	575
		E7044	677000	I	474	22815	121115	35475	179473	34324	118746	12254	108505	0	48879	0	228826
				M	948	49556	178390	50775	278653	34324	278653	12254	108505	0	48879	0	448174
		E7544	111000	I	0	7393	31668	7914	46997	10456	46997	0	0	0	10456	0	57454
				M	0	12021	24076	9946	46043	2520	46043	0	4973	0	7493	0	53546
		8042	1000	I	0	384	567	34	985	0	985	0	0	0	0	0	985
				M	0	15	0	0	15	0	15	0	0	0	0	0	15
8044	161000	I	0	61824	91303	5394	158521	0	158521	0	0	0	0	0	158521		
		M	0	2479	0	0	2479	0	2479	0	0	0	0	0	2479		
TOTAL	2730000	I	7957	306135	662874	170779	1139857	38532	188946	12254	105466	0	250433	0	1253436		
		M	15992	125070	834278	250784	1210219	38532	188946	12254	105466	0	250433	0	1476565		
JUNE	1974	E6044	24000	I	0	1382	3871	444	5750	1762	4930	158	391	0	6142		
				M	749	492	7109	2544	10145	1762	10145	158	6962	0	17858		
		E6544	84000	I	0	19883	47922	6107	73903	0	73903	0	0	0	0	76054	
				M	2142	0	4309	1504	5804	0	5804	0	0	0	0	7946	
		E7042	6000	I	0	2198	2371	962	5533	0	5533	0	0	0	368	0	5901
				M	27	0	54	19	73	0	73	0	0	0	0	99	0
		E7044	133000	I	0	52389	47627	23807	123823	0	123823	0	0	0	9177	0	133000
				M	0	0	0	0	0	0	0	0	0	0	0	0	0
		E7544	24000	I	0	10922	6977	3269	21382	0	21382	0	0	0	1078	0	22462
				M	0	0	1186	106	1289	250	1289	0	0	0	250	0	1538
		8044	1000	I	0	426	474	45	991	0	991	0	0	0	9	0	1000
				M	0	0	0	0	0	0	0	0	0	0	0	0	0
		TOTAL	272000	I	0	67200	109242	34634	231382	0	231382	0	0	0	13165	0	244559
				M	2918	492	12658	4173	17311	2012	17311	158	7212	0	27441	0	27441
TOTAL	3002000	I	7957	393335	772116	205413	1371239	40544	193878	12412	118631	0	1497995	0	1497995		
		M	18910	125562	846936	254957	1227530	40544	193878	12412	257645	0	1504006	0	1504006		

Appendix Table 3. Age and maturity composition estimates in numbers of fish for each month/year/INPFC area stratum in which a landbased driftnet catch occurred, May-June, 1972-81, southeast of 160°E, 50°N. Individual estimates may not sum to total due to rounding - cont'd.

MONTH	YEAR	AREA	CATCH	MAT.	I.1	1.2	2.2	3.2	I.2	1.3	2.3	3.3	I.3	I.4	TOTAL	
MAY	1975	E6042	1000	I	0	14	127	14	156					9	165	
				M	1	35	695	46	777	21	33	1		57	0	835
		E6044	477000	I	286	3434	74555	9301	87625					1813	0	89724
				M	1240	12068	309096	28715	349880	11925	24232	0		36157	0	387276
		E6542	18000	I	0	338	1703	223	2264					0	0	2264
				M	40	304	14396	639	15340	0	358	0		0	0	15736
		E6544	1664000	I	0	23795	216986	22464	263245					24129	0	287539
				M	0	76378	1114381	76378	1267136	47757	53082	1331		109325	0	1376461
		E7042	1000	I	22	155	286	19	472					33	0	526
				M	3	18	377	33	428	14	19	4		42	0	474
E7044	534000	I	0	77110	222304	38555	337969					44536	0	382504		
		M	8918	0	89231	17729	106960	11855	0	11855		35618	0	151496		
E7544	83000	I	5279	29208	36894	0	68915					3021	0	77215		
		M	0	0	3021	1511	4532	0	1253	0		182	0	5785		
8044	5000	I	318	1760	2223	0	4152					76	0	4652		
		M	0	0	182	91	273		0	0		73722	0	349		
TOTAL			2783000	I	5905	135814	555078	70576	764798			71572	79053	13191	844589	
		M	10202	88803	1531379	125142	1745326	71572	79053	13191	182836	0	0	0	1938412	
JUNE	1975	E6042	2000	I	11	156	1026	109	1292					43	1346	
				M	39	5	514	50	568	5	42	0		47	0	654
		E6044	55000	I	253	4433	18007	1865	24426					3355	0	28033
				M	523	731	21577	594	22902	572	2844	127		3542	0	26967
		E6542	7000	I	70	1049	3983	904	5937					70	0	6077
				M	0	70	713	70	853	70	0	0		0	0	923
		E6544	17000	I	68	966	8442	554	9962					428	0	10458
				M	428	0	5144	503	5646	0	468	0		468	0	6542
		E7044	2000	I	0	335	1510	0	1929					0	0	1929
				M	0	71	0	0	71	0	0	0		0	0	71
E7544	4000	I	0	671	3019	0	3857					0	0	3657		
		M	0	143	0	0	143	0	0	0		0	0	143		
TOTAL			87000	I	402	7610	35967	3432	47403				3896	0	51700	
		M	990	1020	27948	1217	30183	647	3354	127		4127	0	35300		
TOTAL			2870000	I	6307	143424	591065	74008	812201	72219	82407	13318	187013	0	896289	
		M	11192	89823	1559327	126359	1775509	72219	82407	13318	187013	0	0	0	1973712	

Appendix Table 3. Age and maturity composition estimates in numbers of fish for each month/year/INPFC area stratum in which a landbased driftnet catch occurred, May-June, 1972-81, southeast of 160°E, 50°N. Individual estimates may not sum to total due to rounding - cont'd.

MONTH	YEAR	AREA	CATCH	MAT.	T.1	1.2	2.2	3.2	T.2	1.3	2.3	3.3	T.3	T.4	TOTAL
MAY	1977	E6042	17	I	0	2	4	0	6				1	0	6
				M	0	1	7	1	10	0	1	0	1	0	11
		E6044	260218	I	104	7260	32475	4866	48739				7650		56493
				M	651	15587	137031	21338	182699	7026	10565	1353	20375	0	203725
		E6542	255	I	0	18	65	8	95				10		105
				M	1	10	90	39	110	13	21	3	38	1	150
		E6544	98736	I	109	5085	17308	3416	27241				2952		30302
				M	138	3841	34015	6586	46633	7455	11829	1135	21376	286	68434
		E7044	24398	I	2	4248	788	1017	13719				1940		15659
				M	68	825	5138	932	7180	522	500	154	1493	0	8739
		TOTAL	383624	I	215	16613	50640	9307	89800				12553		102565
				M	858	20264	176281	26896	236632	15016	22916	2645	43283	287	281059
JUNE	1977	E6042	155	I	1	15	79	15	108				4		113
				M	0	3	21	12	35	1	4	1	7	0	42
		E6044	195090	I	0	16251	125989	48773	191032				0		191032
				M	0	0	4058	0	4058	0	0	0	0	0	4058
		E6046	2	I	0	0	0	0	0				0		0
				M	0	0	0	0	1	0	1	0	1	0	2
		E6542	528	I	2	143	258	42	453				6		461
				M	0	4	34	19	56	2	6	2	10	0	67
		E6544	532503	I	4633	50961	268541	46328	365830				13898		384307
				M	0	9266	74071	41695	125032	4633	13898	4633	23164	0	148196
		E7042	989	I	4	272	480	75	845				12		861
				M	0	8	64	36	108	4	12	4	20	0	128
		E7044	120598	I	0	52255	56283	8044	120598				0		120598
				M	0	0	0	0	0	0	0	0	0	0	0
		E7544	261	I	0	51	87	10	152				5		157
				M	0	16	52	6	74	8	16	1	30	0	104
		TOTAL	850126	I	4640	119948	451717	103287	879018				13925		597529
				M	0	9297	78300	41768	129364	4648	13937	4641	23232	0	152597
		TOTAL	1233750	I	4855	136561	502357	112594	768818	19664	36853	7286	66515	287	433656
				M	858	29561	254581	70664	365996	19664	36853	7286	66515	287	433656

Appendix Table 3. Age and maturity composition estimates in numbers of fish for each month/year/INPFC area stratum in which a landbased driftnet catch occurred, May-June, 1972-81, southeast of 160°E, 50°N. Individual estimates may not sum to total due to rounding - cont'd.

MONTH	YEAR	AREA	CATCH	MAT.	T.1	1.2	2.2	3.2	T.?	1.3	2.3	3.3	T.3	T.4	TOTAL
MAY	1978	E6040	190	I	1	16	59	7	82	14	24	8	20	0	103
		E6042	68661	I	0	6	31	5	41				46	0	87
		E6540	665	M	1078	5404	23249	2163	30815	2163	1620	542	5946	0	37846
		E6542	319767	M	0	3241	21086	2163	26489	2163			4326	0	30815
		E7040	272	I	2	98	255	16	368				74	0	444
		E7042	101151	M	0	27	83	11	121	31	52	17	99	0	221
		E7044	505976	I	0	22192	90302	10360	122886	26139	60692	19250	39971	0	162857
		TOTAL	996682	M	0	7387	36997	4445	48860	26139	60692	19250	108081	0	156910
				I	0	44	107	6	157				32	0	189
				M	0	11	23	4	37	13	25	8	46	0	83
JUNE	1978	E6042	44103	I	0	14090	33228	4087	51719	6828	16670	2488	11784	0	63492
		E6542	69346	I	0	2306	6929	2185	11420				26228	0	37659
		E7042	10880	M	0	139447	219138	23882	390462				75694	0	466156
		E7044	146454	I	0	7944	19935	7944	35874	0	3997	0	3997	0	39820
		TOTAL	996682	M	1081	181291	366338	40521	596489	37188	83080	22313	133521	0	731087
				I	0	20922	85084	16757	122842				142823	0	265595
				M	0	2192	8432	1645	12269				1425	0	13694
				I	0	3484	18594	3594	25668	1724	2686	110	4635	0	30409
				M	139	6844	16449	2413	25707	2517	3634	139	2774	0	28619
				I	0	4542	25062	4549	34146				6442	0	40727
TOTAL		E6042	44103	M	252	3463	4019	505	8040	533	755	0	454	0	8745
		E6542	69346	I	1904	49458	66563	3808	119829	3808	3808	0	1288	0	2135
		E7042	10880	M	0	1904	7601	0	9505				7601	0	129334
		E7044	146454	I	2295	61957	95403	8371	165845	8582	10883	249	12254	0	17120
		TOTAL	270783	M	0	9975	52007	8195	70165				19966	0	180392
			1267465	I	3376	243248	461801	48892	762334	45770	93963	22562	145775	0	90391
				M	0	30897	137091	24952	193007				162789	0	911479
				I	0	30897	137091	24952	193007				162789	0	355986
				M	0	30897	137091	24952	193007				162789	0	355986

Appendix Table 3. Age and maturity composition estimates in numbers of fish for each month/year/INPFC area stratum in which a landbased driftnet catch occurred, May-June, 1972-81, southeast of 160°E, 50°N. Individual estimates may not sum to total due to rounding - cont'd.

MONTH	YEAR	AREA	CATCH	MAT.	T.1	1.2	2.2	3.2	T.2	1.3	2.3	3.3	T.3	1.4	TOTAL		
MAY	1979	E6042	14084	I	0	2608	4694	0	7303	0	0	0	0	0	7303		
		E6540	23	M	0	521	6259	0	6781	0	0	0	0	0	6781		
		E6542	121763	I	0	0	5	0	14	0	0	0	0	1	15		
		E7042	8243	M	0	2	5	0	7	0	0	0	0	1	8		
		E7044	324608	I	0	2642	22502	1327	26471	2642	2642	1327	101	3969	30441		
				M	0	1327	83383	0	84711	0	84711	2642	101	6612	0	91322	
				I	0	2137	3053	0	5190	0	5190	0	0	509	0	5699	
				M	0	712	1424	0	2137	0	2137	204	101	407	0	2544	
				I	0	80308	56904	3343	140535	6687	127181	6687	10030	3343	23437	0	174022
				M	0	30124	90371	6687	127181	4670	179533	9533	12773	4771	30457	0	150586
TOTAL			468721	I	0	87700	87162	6687	220817	9533	12773	4771	30457	0	217480		
		M	0	32686	181442	6687	220817	0	0	0	0	0	0	0	251241		
JUNE	1979	E6042	18665	I	0	3500	11666	0	15165	0	0	0	1167	0	16332		
		E6540	6	M	0	0	1751	0	1751	584	0	0	0	584	2333		
		E6542	121940	I	0	1	3	0	5	0	0	0	0	0	5		
		E7040	88	M	0	0	1	0	1	0	0	0	0	0	0		
		E7042	97115	I	0	10499	23144	0	33643	10267	2378	793	0	6646	0	40301	
		E7044	37662	M	366	8011	57336	1744	67104	10267	2378	793	0	14182	0	81639	
				I	0	39	20	0	59	0	59	0	0	0	0	59	
				M	10	0	10	0	10	0	10	0	0	0	10	29	
				I	0	16383	11906	282	28571	0	28571	0	0	0	6575	0	35156
				M	418	6293	44809	2001	53112	8022	8022	0	0	8439	0	61959	
TOTAL			275476	I	0	5073	4297	23	9397	0	0	0	2335	0	11852		
		M	26	3393	15581	433	19419	3819	1977	113	113	6331	34	25810			
		I	0	35495	51036	305	86840	0	86840	0	0	0	16723	0	103705		
		M	820	17697	119488	4173	141397	22692	22692	906	906	29546	34	171771			
TOTAL			744197	I	0	123195	138198	4975	266373	32225	17128	5677	60003	34	321185		
		M	820	50383	300930	10865	362214	10865	362214	5677	5677	60003	34	423012			

Appendix Table 3. Age and maturity composition estimates in numbers of fish for each month/year/INPFC area stratum in which a landbased driftnet catch occurred, May-June, 1972-81, southeast of 160°E, 50°N. Individual estimates may not sum to total due to rounding - cont'd.

MONTH	YEAR	AREA	CATCH	MAT.	I.1	1.2	2.2	3.2	T.2	1.3	2.3	3.3	I.3	I.4	TOTAL		
MAY	1980	E6042	20374		I	0	3354	5591	373	9317	994	124	0	1119	10436		
				M	0	2113	5591	1119	8820	1119	0	0	0	1119	0	9938	
		E6540	169		I	0	28	44	2	75	0	0	0	7	0	82	
				M	0	15	41	6	62	62	24	13	11	0	24	1	87
		E6542	109596		I	0	3913	9129	0	13042	7825	0	0	0	7825	20878	
				M	0	7825	27399	1304	36528	16965	32616	0	0	0	49581	2608	88718
		E6546	8224		I	0	0	0	0	0	0	0	0	0	0	0	
				M	0	128	771	386	1285	3341	3598	0	0	0	6939	0	8224
		E6548	240		I	0	0	4	0	4	0	0	0	0	1	0	4
				M	0	12	42	8	63	70	102	0	0	0	171	2	236
		E7042	21950		I	193	5391	7702	384	13670	1541	193	0	0	1925	0	13864
				M	0	1732	4236	193	6161	4775	162786	0	0	0	20750	0	8086
E7044	279269		I	0	73420	84591	4775	162786	11171	11171	0	0	22342	0	183508		
		M	0	4775	51078	17566	73420	319	549	0	0	0	868	18	95761		
E7046	1320		I	0	0	18	0	18	0	0	0	0	0	0	35		
		M	0	27	328	44	399	5534	198912	34414	48364	0	29720	18	1285		
TOTAL			441142		I	193	86106	107079	20626	126738	0	0	82969	2629	228807		
		M	0	16627	89486	20626	126738	34414	48364	0	0	0	82969	2629	212335		
JUNE	1980	E6040	89		I	0	28	48	8	84	0	0	0	1	84		
				M	0	1	4	0	5	5	0	0	0	0	0	5	
		E6042	32067		I	0	10261	16034	1924	28219	0	0	0	641	0	28860	
				M	0	641	2565	0	3207	3207	0	0	0	0	0	0	3207
		E6542	91794		I	0	27345	52736	11722	91794	0	0	0	0	0	91794	
				M	0	0	0	0	0	0	0	0	0	0	0	0	
		E6548	1365		I	0	14	102	14	130	0	0	0	0	34	184	
				M	0	56	416	54	526	167	478	6	6	6	653	2	1181
		E7042	117676		I	0	31525	46235	8402	86151	8402	6307	0	0	12603	0	98765
				M	0	2106	2106	0	4201	4201	0	0	0	0	14710	0	18911
		E7044	15874		I	0	1638	3094	511	5243	1468	2386	19	19	3893	14	6096
				M	0	822	4581	478	5880	22581	211621	10037	9171	25	14151	16	225793
TOTAL			258865		I	0	70811	118249	22581	13819	9171	25	19246	16	33082		
		M	0	3626	9672	532	13819	28115	410533	44451	57535	25	43871	2645	454590		
TOTAL			700007		I	193	156917	225328	28115	410533	44451	57535	25	102215	2645	245417	
		M	0	20253	99158	21158	140557	44451	57535	25	102215	25	43871	2645	245417		

Appendix Table 3. Age and maturity composition estimates in numbers of fish for each month/year/INPFC area stratum in which a landbased driftnet catch occurred, May-June, 1972-81, southeast of 160°E, 50°N. Individual estimates may not sum to total due to rounding - cont'd.

MONTH	YEAR	AREA	CATCH	MAT.	T.1	1.2	2.2	3.2	T.2	1.3	2.3	3.3	T.3	1.4	TOTAL		
MAY	1981	E6042	43509		I	3154	5730	666	9546	4390	11230	1988	679		10229		
					M	0	1775	10812	2685	15267	0	17769	0	248	33280		
		E6542	122004		I	0	23962	15251	2184	41396	4356	4356	0	6539	0	47935	
					M	0	8711	47935	8711	65358	0	8711	0	0	74059		
		E7042	57026		I	0	6107	8149	0	14257	6107	4072	0	12221	0	14257	
					M	0	12221	18328	0	30549	0	17803	0	0	42770		
		E7044	364075		I	0	39684	58580	6080	104344	45910	62439	7172	117960	2221	122475	
					M	0	18277	87487	15655	121419	0	1	0	0	241600		
		TOTAL			586623		I	0	1	0	4	1	2	0	3	0	8
							M	0	72907	87710	8930	169544	60764	82099	9160	156664	2469
					I	0	40985	164565	27051	232597	60764	82099	9160	156664	2469	391727	
JUNE	1981	E6042	7824		I	1633	3658	210	5604	0	0	0	0	0	5604		
					M	0	2032	188	2220	0	0	0	0	0	2220		
		E6542	50725		I	0	18444	26134	3074	49188	0	0	0	0	0	49188	
					M	0	0	1537	0	1537	0	0	0	0	0	0	1537
		E6544	81		I	0	15	20	6	41	4	6	1	12	3	45	
					M	0	6	17	2	24	0	0	0	0	0	36	
		E6546	64		I	0	18	18	11	47	1	4	1	6	3	51	
					M	0	1	7	0	8	0	0	0	0	13		
		E6548	350		I	0	46	53	23	122	31	43	6	22	6	144	
					M	0	31	83	10	124	0	0	0	0	206		
E7042	117542		I	0	32018	63602	3515	100886	0	0	0	0	0	100886			
			M	0	2327	11178	3138	16656	0	0	0	0	0	16656			
E7044	55913		I	0	12172	15387	4641	32323	2309	3936	699	2634	7051	28	34951		
			M	0	3400	9360	1124	13863	0	0	0	0	0	2662	0	20962	
TOTAL			232499		I	0	64346	108872	11480	188211	2345	3989	707	27634	28	190859	
					M	0	5765	24214	4462	34452	0	0	0	0	0	0	0
TOTAL					I	0	137253	196582	20410	357755	63109	86088	9867	153814	2497	433357	
					M	0	46750	188779	31513	267049	60764	82099	9160	156664	2469	391727	

Appendix Table 4. Estimated interceptions of North American sockeye by the Japanese landbased driftnet fishery. Interception rates (%) are in terms of catch in major age groups.

MONTH YEAR	AREA	ESTIMATED INTERCEPTIONS OF NORTH AMERICAN SOCKEYE											TOTAL										
		TOTAL SOCKEYE CATCH			CATCH IN MAJOR AGE GROUPS			IMMATURES					MATURES		TOTAL	NU.							
		266	440010	1372708	1764	23785	1037217	1.2	2.2	TOTAL	%	1.2	2.2	1.3			2.2	2.3	TOTAL	%			
MAY 1972	E6042	266	200	4	4	8	4.0	0	0	0	0	0	0	0	0	0	2	1.0	2	1.0	10	5.0	
	E6044	440010	312143	1764	2124	3888	1.2	0	0	0	0	0	0	0	0	0	2061	3.3	10268	3.3	14156	4.5	
	E6544	1372708	1037217	23785	24127	47912	4.6	0	0	0	0	0	0	0	0	0	32472	3.1	32472	3.1	80384	7.7	
	E7042	669	506	11	12	23	4.5	0	0	0	0	0	0	0	0	4	4	.8	4	.8	27	5.3	
	E7044	561840	454809	9682	8017	17699	3.9	0	0	0	0	0	0	0	0	3965	9630	3.8	17425	3.8	35124	7.7	
	E7544	195675	166793	0	57674	57674	34.6	5638	0	0	0	0	0	0	0	9226	489	9.3	15449	9.3	73123	43.8	
	8044	78549	68551	0	35315	35315	51.5	1433	0	0	0	0	0	0	1008	0	0	3.6	2441	3.6	37756	55.1	
TOTAL		2649717	2040219	35246	127273	162519	8.0	7071	0	0	0	0	0	0	48738	18326	3.8	78061	3.8	240580	11.8		
JUNE 1972	E6042	1659	1419	45	12	57	4.0	0	0	0	0	0	0	0	0	0	43	3.2	45	3.2	102	7.2	
	E6044	407634	340252	28884	3430	32314	9.5	0	0	0	0	0	0	0	6543	136	2.6	8967	2.6	41281	12.1		
	E6542	427	366	12	3	15	4.1	0	0	0	0	0	0	0	11	0	0	11	3.0	11	3.0	26	7.1
	E6544	194857	166739	5298	4218	9516	5.7	0	0	0	0	0	0	0	3269	0	2.1	3455	2.1	12971	7.8		
	E6546	488	405	56	36	92	22.7	0	0	0	0	0	0	0	0	0	0	1	.2	1	.2	93	23.0
	E7042	5	4	0	0	0	0.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	E7044	23622	19781	1904	243	2147	10.9	0	0	0	0	0	0	0	227	0	0	34	1.3	261	1.3	2408	12.2
	E7544	42165	36299	1772	9218	10990	30.3	2161	0	0	0	0	0	0	1550	0	0	3711	10.2	14701	40.5		
	8044	7417	6867	447	1340	1787	26.0	579	0	0	0	0	0	0	214	0	0	793	11.5	2580	37.6		
TOTAL		678274	572132	38418	18500	56918	9.9	2740	0	0	0	0	0	0	11957	136	3.0	17244	3.0	74162	13.0		
		3327991	2612351	73664	145773	219437	8.4	9811	0	0	0	0	0	0	60695	4062	3.6	95305	3.6	314742	12.0		
MAY 1973	E6042	217	176	1	2	3	1.7	1	1	1	1	1	1	1	1	1	1	2	4	2	4	7	4.0
	E6044	770715	662892	1254	1680	2934	.4	2902	0	0	0	0	0	0	0	0	0	4406	1.1	7308	1.1	10242	1.5
	E6542	12323	10495	44	87	131	1.2	34	0	0	0	0	0	0	27	0	0	138	1.9	199	1.9	330	3.1
	E6544	992505	742891	5072	0	5072	.7	2410	0	0	0	0	0	0	32663	7553	5.9	43506	5.9	48578	6.5		
	E7042	63	52	1	1	2	3.8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	3.8
	E7044	562804	458180	10010	9412	19422	4.2	2100	0	0	0	0	0	0	6762	3384	2.7	12246	2.7	31668	6.9		
	E7542	692	566	0	165	165	29.2	24	0	0	0	0	0	0	75	6	0	117	20.7	282	49.8		
	E7544	204917	176658	0	56642	56642	32.1	14311	0	0	0	0	0	0	15193	0	0	38773	21.9	95415	54.0		
	8044	73505	63368	0	20318	20318	32.1	5133	0	0	0	0	0	0	5450	0	0	13908	21.9	34226	54.0		
TOTAL		2617741	2115278	16382	88307	104689	4.9	26915	0	0	0	0	0	0	60171	15489	5.5	116061	5.5	220750	10.4		

Appendix Table 4. Estimated interceptions of North American sockeye by the Japanese landbased driftnet fishery. Interception rates (%) are in terms of catch in major age groups - cont'd.

ESTIMATED INTERCEPTIONS OF NORTH AMERICAN SOCKEYE															
MONTH YEAR	AREA	TOTAL SOCKEYE CATCH	CATCH IN MAJOR AGE GROUPS	IMMATURES				MATURING				TOTAL			
				1.2	2.2	TOTAL	%	1.2	2.2	1.3	2.3	TOTAL	%		
JUNE 1973	E6042	1490	1048	18	26	44	4.2	10	28	0	0	38	3.6	82	7.8
	E6044	273598	192477	1081	3588	4669	2.4	1657	8785	0	0	10442	5.4	15111	7.9
	E6542	58	47	1	2	3	6.4	0	0	0	0	0	0.0	3	6.4
	E6544	228906	160463	2554	6046	8600	5.4	1573	3635	0	0	5208	3.2	13809	8.6
	E7042	1110	915	25	29	54	5.9	2	6	0	0	8	.9	62	6.8
	E7044	52341	45364	4632	1160	5792	12.8	0	7	0	0	7	.0	5799	12.8
	E7542	373	324	44	135	179	55.2	0	0	0	0	0	0.0	179	55.2
	E7544	14103	11939	1760	4032	5792	48.5	243	629	44	15	931	7.8	6723	56.3
TOTAL	8044	6650	6159	1290	1215	2505	40.7	331	730	0	0	1061	17.2	3566	57.9
	TOTAL	578629	418736	11405	16233	27638	6.6	3816	13820	44	15	17695	4.2	45333	10.8
MAY 1974	E6044	219000	180587	2185	0	2185	1.2	3477	18456	155	0	22088	12.2	24273	13.4
	E6542	5000	3817	61	88	149	3.9	73	70	2	0	145	3.8	294	7.7
	E6544	1555000	1206524	22782	41997	64779	5.4	289	15906	439	0	16634	1.4	81413	6.73
	E7042	1000	740	13	19	32	4.3	14	12	0	0	26	3.5	56	7.8
	E7044	677000	524946	2644	10912	13556	2.6	8459	7207	12123	0	27789	5.3	41345	7.9
	E7544	111000	82651	0	19742	19742	23.9	8104	10348	997	3265	22714	27.5	42456	51.4
	8042	1000	966	0	354	354	36.6	10	0	0	0	10	1.0	364	37.7
	8044	161000	155606	0	56918	56918	36.6	1671	0	0	0	1671	1.1	58589	37.7
TOTAL	2730000	2155837	27685	130030	157715	7.3	22097	51999	13716	3265	91077	4.2	248792	11.5	
JUNE 1974	E6044	24000	19546	447	272	719	3.7	21	658	0	0	679	3.5	1398	7.2
	E6544	84000	72114	6434	0	6434	8.9	0	399	0	0	399	.6	6833	9.5
	E7042	6000	4623	711	167	878	19.0	0	5	0	0	5	.1	983	19.1
	E7044	133000	100016	16953	3348	20301	20.3	0	0	0	0	0	0.0	20301	20.3
	E7544	24000	19335	3166	5499	8665	44.8	0	750	165	0	915	4.7	9580	49.5
	8044	1000	900	124	374	498	55.3	0	0	0	0	0	0.0	498	55.3
	TOTAL	272000	216534	27835	9660	37495	17.3	21	1812	165	0	1998	.9	39493	18.2
	TOTAL	3002000	2372371	55520	139690	195210	8.2	22118	53811	13881	3265	93075	3.9	288285	12.2
MAY 1975	E6042	1000	925	0	16	16	1.7	6	0	8	9	23	2.5	39	4.2
	E6044	477000	435310	0	12003	12003	2.8	2060	6213	4468	6642	19383	4.5	31386	7.2
	E6542	18000	17099	0	212	212	1.2	52	1419	0	98	1569	9.2	1781	10.4
	E6544	1664000	1532379	0	21503	21503	1.4	13038	336543	17894	14550	382025	24.9	403528	26.3
	E7042	1000	869	0	36	36	4.1	3	17	5	5	30	3.5	66	7.6
	E7044	534000	400500	0	27699	27699	6.9	0	4122	4442	0	8564	2.1	36263	9.1
	E7544	83000	70376	0	22999	22999	32.7	0	1423	0	757	2180	3.1	25179	35.8
	8044	5000	4241	0	1386	1386	32.7	0	86	0	46	132	3.1	1518	35.8
TOTAL	2783000	2461699	0	85854	85854	3.5	15159	349823	26817	22107	413906	16.8	499760	20.3	

Appendix Table 4. Estimated interceptions of North American sockeye by the Japanese landbased driftnet fishery. Interception rates (%) are in terms of catch in major age groups - cont'd.

MONTH YEAR	AREA	TOTAL SOCKEYE CATCH	CATCH IN MAJOR AGE GROUPS	ESTIMATED INTERCEPTIONS OF NORTH AMERICAN SOCKEYE										TOTAL			
				IMMATURES					MATURING						TOTAL		
				1.2	2.2	TOTAL	%	1.2	2.2	1.3	2.3	TOTAL	%			NU.	
JUNE 1975	E6042	2000	1748	41	37	78	4.5	1	0	0	0	0	3	4	.2	82	4.7
	E6044	55000	48164	1150	645	1795	3.7	228	0	12	173	0	173	413	.9	2208	4.6
	E6542	7000	5885	272	605	877	14.9	22	0	1	0	0	0	23	.4	900	13.3
	E6544	17000	15020	251	0	251	1.7	0	0	0	0	0	28	28	.2	279	1.9
	E7044	2000	1916	87	54	141	7.4	22	0	0	0	0	0	22	1.1	163	8.5
	E7544	4000	3833	298	1811	2109	55.0	72	0	0	0	0	0	72	1.9	2181	56.9
TOTAL		87000	76566	2099	3152	5251	6.9	345	0	13	204	0	204	562	.7	5813	7.6
TOTAL		2870000	2538265	2099	89006	91105	3.6	15504	349823	26830	22311	414468	16.3	505573	19.9		
MAY 1976	E6042	27250	23226	132	340	472	2.0	567	1401	0	94	0	94	2062	8.9	2534	10.9
	E6044	480249	403649	1425	4319	5744	1.4	10265	34679	0	695	0	695	45639	11.3	51383	12.7
	E6542	55234	51236	835	2074	2909	5.7	2215	855	0	0	0	0	3070	6.0	5979	11.7
	E6544	953186	808112	4231	9647	13878	1.7	6233	74683	0	5301	0	5301	86217	10.7	100095	12.4
	E7042	10946	9404	70	200	270	2.9	204	461	0	56	0	56	721	7.7	991	10.5
	E7044	899521	767382	5509	20254	25763	3.4	14959	47370	0	5387	0	5387	67716	8.8	93479	12.2
	E7544	316026	296370	0	25848	25848	8.7	19629	70003	18535	16118	0	16118	124285	41.9	150133	50.7
	8044	1938	1919	0	21	21	1.1	157	494	167	137	0	137	955	49.8	976	50.9
TOTAL		2744350	2361298	12202	62703	74905	3.2	54229	229946	18702	27788	330665	14.0	405570	17.2		
JUNE 1976	E6042	4332	3596	82	88	170	4.7	42	201	0	1	0	1	244	6.8	414	11.5
	E6044	144812	120715	6076	3099	9175	7.6	1373	0	0	0	0	0	1373	1.1	10548	8.7
	E6046	847	635	6	10	16	2.5	2	133	0	1	0	1	136	21.4	152	23.9
	E6542	7971	6666	240	193	433	6.5	38	218	0	1	0	1	257	3.9	690	10.4
	E6544	177059	146818	2463	2867	5330	3.6	1725	8911	0	50	0	50	10686	7.3	16016	10.9
	E6546	17502	13520	100	319	419	3.1	59	1736	0	24	0	24	1819	13.5	2238	16.6
	E7042	282	236	8	7	15	6.4	1	8	0	0	0	0	9	3.8	24	10.2
	E7044	29614	24950	1211	827	2038	8.2	0	265	0	0	0	0	265	1.1	2303	9.2
	E7542	38	32	3	14	17	53.1	0	1	0	0	0	0	1	3.1	18	56.3
	E7544	2841	2439	225	1075	1300	53.3	6	65	3	14	0	14	98	3.6	1388	56.9
	8044	50	45	5	19	24	53.3	0	1	0	0	0	0	1	2.2	25	55.6
TOTAL		385348	319652	10419	8518	18937	5.9	3246	11539	3	91	14879	4.7	33816	10.6		
TOTAL		3129698	2680950	22621	71221	93842	3.5	57475	241485	18705	27879	345544	12.9	439886	16.4		
MAY 1977	E6042	17	15	0	0	0	0.0	0	0	0	0	0	0	0	0.0	0	0.0
	E6044	260218	209944	775	2225	3000	1.4	2661	8948	1683	1551	14843	7.1	17843	8.5		
	E6542	255	217	2	4	6	7.8	2	5	3	3	13	6.0	19	8.8		
	E6544	98736	79533	865	1206	2071	2.6	246	4708	1785	1844	8583	10.8	10654	13.4		
	E7044	24398	12021	511	59	570	4.7	141	331	125	73	670	5.6	1240	10.3		
TOTAL		383624	301730	2153	3494	5647	1.9	3050	13992	3596	3471	24109	8.0	29756	9.9		

Appendix Table 4. Estimated interceptions of North American sockeye by the Japanese landbased driftnet fishery. Interception rates (%) are in terms of catch in major age groups -
cont'd.

MONTH YEAR	AREA	ESTIMATED INTERCEPTIONS OF NORTH AMERICAN SOCKEYE													
		TOTAL SOCKEYE CATCH		CATCH IN MAJOR AGE GROUPS		IMMATURES			MATURING			TOTAL			
				1.2	2.2	TOTAL	1.2	2.2	1.3	2.3	TOTAL	%	NO.	%	
JUNE 1977	E6042	155	123	4	3	7	5.7	0	2	0	0	2	1.6	9	7.3
	E6044	195090	146298	4217	5531	9748	6.7	0	190	0	0	190	.1	9938	6.8
	E6046	2	1	0	0	0	0.0	0	0	0	0	0	0.0	0	0.0
	E6542	528	447	37	21	58	13.0	1	3	0	0	4	.9	62	13.9
	E6544	532503	421370	13224	9480	22704	5.4	1603	8133	95	846	10677	2.5	33381	7.9
	E7042	989	840	71	21	92	11.0	1	6	0	1	8	1.0	100	11.9
	E7044	120598	108538	19961	2302	22263	20.5	0	0	0	0	0	0.0	22263	20.5
	E7544	261	230	19	52	71	30.9	8	33	5	12	58	25.2	129	56.1
TOTAL		850126	677847	37533	17410	54943	8.1	1613	8367	100	859	10939	1.6	65882	9.7
		1233750	979577	39686	20904	60590	6.2	4663	22359	3696	4330	35048	3.6	95638	9.8
MAY 1978	E6040	190	150	2	4	6	4.0	1	1	3	4	9	6.0	15	10.0
	E6042	68661	56763	577	1658	2235	3.9	553	780	518	238	2089	3.7	4324	7.6
	E6540	665	546	10	18	28	5.1	5	4	7	8	24	4.4	52	9.5
	E6542	319767	245709	2368	6068	8436	3.4	1261	2098	6739	8910	19008	7.7	27444	11.2
	E7040	272	223	5	8	13	5.8	2	1	3	4	10	4.5	23	10.3
	E7042	101151	80051	1503	2369	3872	4.8	394	320	1635	2447	4796	6.0	8668	10.8
	E7044	505976	390461	16775	16479	33254	8.5	1356	1286	0	587	3229	.8	36483	9.3
TOTAL		996682	773903	21240	26604	47844	6.2	3572	4490	8905	12198	29165	3.8	77009	10.0
JUNE 1978	E6042	44103	37112	569	370	939	2.5	603	1722	35	164	2524	6.8	3463	9.3
	E6542	69346	59048	1776	1331	3107	5.3	786	2321	51	221	3379	5.7	6486	11.0
	E7042	10880	9565	899	176	1075	11.2	8	69	11	46	134	1.4	1209	12.6
	E7044	270783	133142	18893	2722	21615	16.2	329	704	78	232	1343	1.0	22958	17.2
TOTAL		1267465	1012770	43377	31203	74580	7.4	5298	9306	9080	12861	36545	3.6	111125	11.0
MAY 1979	E6042	14084	14082	278	335	613	4.4	89	232	0	0	321	2.3	934	6.6
	E6540	23	21	1	1	2	9.5	0	0	0	0	0	0.0	2	9.5
	E6542	121763	115138	282	1512	1794	1.6	227	4728	633	388	5976	5.2	7770	6.7
	E7042	8243	7631	228	218	446	5.8	122	66	49	15	252	3.3	698	9.1
	E7044	324608	274424	8569	4057	12526	4.6	5142	4175	1602	1472	12391	4.5	25017	9.1
TOTAL		468721	411296	9358	6123	15481	3.8	5580	9201	2284	1875	18940	4.6	34421	8.4
JUNE 1979	E6042	18665	17501	421	877	1298	7.4	0	113	140	0	253	1.4	1551	8.9
	E6540	6	5	0	0	0	0.0	0	0	0	0	0	0.0	0	0.0
	E6542	121940	111635	2724	1016	3740	3.4	1386	5309	209	145	7049	6.3	10789	9.7
	E7040	88	69	10	2	12	17.4	0	1	0	0	1	1.4	13	18.8
	E7042	97115	87413	4251	523	4774	5.5	1089	4149	164	0	5402	6.2	10176	11.6
	E7044	37662	34140	1316	189	1505	4.4	587	1443	78	120	2228	6.5	3733	10.9
TOTAL		275476	250763	8722	2607	11329	4.5	3062	11015	591	265	14933	6.0	26262	10.5
		744197	662059	18080	8730	26910	4.0	8642	20216	2875	2140	33873	5.1	60683	9.2

Appendix Table 4. Estimated interceptions of North American sockeye by the Japanese landbased driftnet fishery. Interception rates (%) are in terms of catch in major age groups - cont'd.

MONTH YEAR	AREA	ESTIMATED INTERCEPTIONS OF NORTH AMERICAN SOCKEY														
		TOTAL SOCKEY CATCH		CATCH IN MAJOR AGE GROUPS		IMMATURES			MATURING			TOTAL		NJ.	%	
		20374	17767	1281	229	2.2	TOTAL	?	1.2	2.2	1.3	2.3	TOTAL			?
MAY 1980	E6042	20374	17767	1281	229	2.2	1510	8.5	366	518	20	8	912	5.1	2422	13.6
	E6540	169	152	3	3	3.9	6	3.9	3	2	3	2	10	6.6	16	10.5
	E6542	109596	97847	417	651	1.1	1068	1.1	1336	1266	4063	4788	11453	11.7	12521	12.8
	E6546	8224	7838	0	0	0.0	0	0.0	22	44	800	528	1394	17.8	1394	17.8
	E6548	240	230	0	0	0.0	0	0.0	3	8	7	13	31	13.5	31	13.5
	E7042	21950	20795	493	955	7.0	1448	7.0	441	810	289	24	1504	7.5	3012	14.5
	E7044	279269	236206	7834	6031	5.9	13865	5.9	815	2360	2675	1640	7490	3.2	21355	9.0
	E7046	1320	1241	0	1	.1	1	.1	5	21	76	81	183	14.7	184	14.8
TOTAL		441142	382076	10028	7870	4.7	17898	4.7	2991	5029	7933	7084	23037	6.0	40935	10.7
JUNE 1980	E6040	89	81	2	7	11.1	9	11.1	0	1	0	0	1	1.2	10	12.3
	E6042	32067	29501	2663	704	11.4	3367	11.4	111	238	0	0	349	1.2	3716	12.6
	E6542	91794	80081	7096	2315	11.8	9411	11.8	0	0	0	0	0	0.0	9411	11.8
	E6548	1365	1233	4	8	1.0	12	1.0	10	38	3	29	80	6.5	92	7.5
	E7042	117676	96681	8222	3542	12.2	11764	12.2	656	276	171	454	1557	1.0	13321	13.8
	E7044	15874	13989	425	136	4.0	561	4.0	142	424	30	145	741	5.3	1302	9.3
TOTAL		258865	221566	18412	6712	11.3	25124	11.3	919	977	204	628	2728	1.2	27852	12.6
TOTAL		70007	603642	28440	14582	7.1	43022	7.1	3910	6006	8137	7712	25765	4.3	68787	11.4
MAY 1981	E6042	43509	37091	1205	234	3.9	1439	3.9	307	1001	90	684	2082	5.6	3521	9.5
	E6542	122004	104571	2557	1087	3.5	3644	3.5	1487	1774	1043	539	4943	4.7	8587	8.2
	E7042	57026	54984	652	548	2.2	1200	2.2	2086	1039	1463	598	5186	9.4	6386	11.6
	E7044	364075	312377	4234	4177	2.7	8411	2.7	3120	4042	10995	9166	27323	9.7	35734	11.4
	E7046	9	7	0	0	0.0	0	0.0	0	0	0	0	0	0.0	0	0.0
TOTAL		586623	509030	8648	6046	2.9	14694	2.9	7000	7856	13591	11087	39534	7.8	54228	10.7
JUNE 1981	E6042	7824	7323	132	506	8.7	638	8.7	0	474	0	0	474	6.5	1112	15.2
	E6542	50725	46115	4786	1147	12.9	5933	12.9	0	142	0	0	142	.3	6075	13.2
	E6544	81	68	4	2	8.8	6	8.8	1	2	0	0	3	4.4	9	13.2
	E6546	64	49	5	1	12.2	6	12.2	0	1	0	0	1	2.0	7	14.3
	E6548	350	287	12	4	5.6	16	5.6	10	16	1	3	30	10.5	46	15.0
	E7042	117542	109125	8350	4872	12.1	13222	12.1	725	1463	0	0	2188	2.0	15410	14.1
	E7044	55913	46564	3159	676	8.2	3835	8.2	588	867	47	240	1742	3.7	5577	12.0
TOTAL		232499	209531	16448	7208	11.3	23656	11.3	1324	2965	48	243	4580	2.2	28236	13.5
TOTAL		819122	718561	25096	13254	5.3	38350	5.3	8324	10821	13639	11330	44114	6.1	82464	11.5

Appendix Table 5. Estimated interceptions of Bristol Bay sockeye by the Japanese landbased driftnet fishery, 1972-81. Interception rates (%) are in terms of catch in major groups.

MONTH YEAR	AREA	TOTAL SOCKEYE CATCH	CATCH IN MAJOR AGE GROUPS	ESTIMATED INTERCEPTIONS OF										TOTAL				
				IMMATURES					MATURING						TOTAL			
				1.2	2.2	TOTAL	%	1.2	2.2	1.3	2.3	TOTAL	%					
MAY 1972	E6042	266	200	2	4	6	3.0	0	2	0	0	0	0	0	2	1.0	8	4.0
	E6044	440010	312143	1019	2124	3143	1.0	0	2061	0	0	0	0	0	10268	3.3	13411	4.3
	E6544	1372708	1037217	13739	24127	37866	3.7	0	32472	0	0	0	0	0	32472	3.1	70338	6.8
	E7042	669	506	7	12	19	3.8	0	4	0	0	0	0	4	4	.8	23	4.5
	E7044	561840	454809	5592	8017	13609	3.0	0	3965	0	3830	9630	0	0	17425	3.8	31034	6.8
	E7544	195675	166793	0	43010	43010	25.8	5638	9226	87	87	489	0	0	15440	9.3	58450	35.0
	8044	78549	68551	0	26336	26336	38.4	1433	1008	0	0	0	0	0	2441	3.6	28777	42.0
TOTAL		2649717	2040219	20559	103630	123989	6.1	7071	48738	3917	18326	78052	3.8	202041	9.9			
JUNE 1972	E6042	1659	1419	44	0	44	3.1	0	43	0	0	0	0	2	45	3.2	89	6.3
	E6044	407634	340252	28000	0	28000	8.2	0	6643	0	0	0	0	2188	8831	2.6	36831	10.8
	E6542	427	366	11	0	11	3.0	0	11	0	0	0	0	0	11	3.0	22	6.0
	E6544	194857	166739	5136	0	5136	3.1	0	3269	0	0	0	0	186	3455	2.1	8591	5.2
	E6546	488	405	56	36	92	22.7	0	0	0	0	0	0	1	1	.2	93	23.0
	E7042	5	4	0	0	0	0.0	0	0	0	0	0	0	0	0	0.0	0	0.0
	E7044	23622	19781	1845	0	1845	9.3	0	227	0	0	34	0	0	261	1.3	2106	10.6
	E7544	42165	36299	1056	6788	7844	21.6	394	897	0	0	0	0	0	1291	3.5	9135	25.2
	8044	7417	6867	267	986	1253	13.2	106	124	0	0	0	0	0	230	3.3	1483	21.6
TOTAL		678274	572132	36415	7810	44225	7.7	500	11214	0	2411	14125	2.5	58350	92177	3.5	260391	10.0
		3327991	2612351	56774	111440	168214	6.4	7571	59952	3917	20737	92177	3.5	260391	10.0			
MAY 1973	E6042	217	176	1	2	3	1.7	0	0	0	0	0	0	0	2	1.1	5	2.8
	E6044	770715	662892	1254	1680	2934	.4	1578	0	0	4406	0	0	0	5984	.9	8918	1.3
	E6542	12323	10495	44	87	131	1.2	18	0	0	138	0	0	0	156	1.5	287	2.7
	E6544	992505	742891	5072	0	5072	.7	1310	0	0	7553	880	0	0	9743	1.3	14815	2.0
	E7042	63	52	1	1	2	3.8	0	0	0	0	0	0	0	0	0.0	2	3.8
	E7044	562804	458180	10010	9412	19422	4.2	1142	994	0	3384	0	0	0	5520	1.2	24942	5.4
	E7542	692	566	0	123	123	21.7	23	59	0	3	10	0	0	95	16.8	218	38.5
	E7544	204917	176658	0	42241	42241	23.9	13657	11888	0	8007	33552	19.0	0	33552	19.0	75793	42.9
	8044	73505	63368	0	15152	15152	23.9	4899	4264	0	2872	12035	19.0	0	12035	19.0	27187	42.9
TOTAL		2617741	2115278	16382	68698	85080	4.0	22627	17205	15486	11769	67087	3.2	152167	7.2			

Appendix Table 5. Estimated interceptions of Bristol Bay sockeye by the Japanese landbased driftnet fishery, 1972-81. Interception rates (%) are in terms of catch in major groups - cont'd.

MONTH YEAR	AREA	TOTAL SOCKEYE CATCH	ESTIMATED INTERCEPTIONS OF BRISTOL BAY SOCKEYE												TOTAL NO.	%	
			CATCH IN MAJOR AGE GROUPS			IMMATURES						MATURING					TOTAL
			1.2	2.2	TOTAL	1.2	2.2	7	1.2	2.2	1.3	2.3	TOTAL	%			
JUNE 1973	E6042	1490	1048	18	21	39	3.7	1	14	0	0	15	1.4	54	5.2		
	E6044	273598	192477	1081	2893	3974	2.1	231	4368	0	0	4599	2.4	8573	4.5		
	E6542	58	47	1	1	2	4.3	0	0	0	0	0	0.0	2	4.3		
	E6544	228906	160463	2554	6046	8600	5.4	219	0	0	0	219	.1	8819	5.5		
	E7042	1110	915	25	24	49	5.4	0	3	0	0	3	.3	52	5.7		
	E7044	52341	45364	1170	1160	2330	5.1	0	4	0	0	4	.0	2334	5.1		
	E7542	373	324	4	104	108	33.3	0	0	0	0	0	0.0	108	33.3		
	E7544	14103	11939	175	3103	3278	27.5	44	493	43	13	593	5.0	3871	32.4		
	8044	6650	6159	128	935	1063	17.3	60	572	0	0	632	10.3	1695	27.5		
TOTAL		578629	418736	5156	14287	19443	4.6	555	5454	43	13	6065	1.4	25508	6.1		
		3196370	2534014	21538	82985	104523	4.1	23182	22659	15529	11782	73152	2.9	177675	7.0		
MAY 1974	E6044	219000	180587	2185	0	2185	1.2	3214	3413	155	0	6782	3.8	8967	5.0		
	E6542	5000	3817	61	19	80	2.1	68	70	2	0	140	3.7	220	5.8		
	E6544	1555000	1206524	22782	7820	30602	2.5	0	15906	439	0	16345	1.4	46947	3.9		
	E7042	1000	740	13	4	17	2.3	13	12	0	0	25	3.4	42	5.7		
	E7044	677000	524946	2644	2398	5042	1.0	7820	7207	12123	0	27150	5.2	32192	6.1		
	E7544	111000	82651	0	14723	14723	17.8	7733	8097	907	2820	19557	23.7	34280	41.5		
	8042	1000	966	0	264	264	27.3	10	0	0	0	10	1.0	274	28.4		
	8044	161000	155606	0	42447	42447	27.3	1595	0	0	0	1595	1.0	44042	28.3		
TOTAL		2730000	2155837	27635	67675	95360	4.4	20453	34705	13626	2820	71604	3.3	166964	7.7		
JUNE 1974	E6044	24000	19546	447	272	719	3.7	0	562	0	0	562	2.9	1281	6.6		
	E6544	84000	72114	6434	0	6434	8.9	0	340	0	0	340	.5	6774	9.4		
	E7042	6000	4623	711	167	878	19.0	0	4	0	0	4	.1	882	19.1		
	E7044	133000	100016	16953	3348	20301	20.3	0	0	0	0	0	0.0	20301	20.3		
	E7544	24000	19335	3166	5160	8326	43.1	0	588	161	0	749	3.9	9075	46.9		
	8044	1000	900	124	351	475	52.8	0	0	0	0	0	0.0	475	52.8		
TOTAL		272000	216534	27835	9298	37133	17.1	0	1494	161	0	1655	.8	38788	17.9		
		3002000	2372371	55520	76973	132493	5.6	20453	36199	13787	2820	73259	3.1	205752	8.7		
MAY 1975	E6042	1000	925	0	13	13	1.4	6	0	8	5	19	2.1	32	3.5		
	E6044	477000	435310	0	0	0	0.0	1904	0	4468	3356	9728	2.2	9728	2.2		
	E6542	18000	17099	0	176	176	1.0	48	0	0	50	98	.6	274	1.6		
	E6544	1664000	1532379	0	18769	18769	1.2	12052	0	17894	7352	37298	2.4	56067	3.7		
	E7042	1000	869	0	30	30	3.5	3	16	5	3	27	3.1	57	6.6		
	E7044	534000	400500	0	22964	22964	5.7	0	3676	4442	0	8118	2.0	31082	7.8		
	E7544	83000	70376	0	17152	17152	24.4	0	1097	0	548	1635	2.3	18787	26.7		
	8044	5000	4241	0	1033	1033	24.4	0	65	0	33	98	2.3	1131	26.7		
TOTAL		2783000	2461699	0	60137	60137	2.4	14013	48444	26817	11347	57021	2.3	117158	4.8		

Appendix Table 5. Estimated interceptions of Bristol Bay sockeye by the Japanese landbased driftnet fishery, 1972-81. Interception rates (%) are in terms of catch in major groups - cont'd.

MONTH YEAR	AREA	ESTIMATED INTERCEPTIONS OF BRISTOL BAY SOCKEYE												TOTAL						
		TOTAL SOCKEYE CATCH				CATCH IN MAJOR AGE GROUPS				IMMATURES				MATURING				NO.	%	
		SOCKEYE CATCH	1.2	2.2	TOTAL	1.2	2.2	TOTAL	%	1.2	2.2	TOTAL	%	1.2	2.3	TOTAL	%			
JUNE 1975	E6042	2000	1748	40	37	77	4.4	1	0	0	0	0	0	0	0	4	.2	81	4.6	
	E6044	55000	48164	1136	645	1781	3.7	91	0	0	0	0	0	0	0	264	.5	2045	4.2	
	E6542	7000	5885	269	605	874	14.9	9	0	0	0	0	0	0	0	9	.2	883	15.0	
	E6544	17000	15020	247	0	247	1.6	0	0	0	0	0	0	0	0	28	.2	275	1.8	
	E7044	2000	1916	86	54	140	7.3	9	0	0	0	0	0	0	0	9	.5	149	7.8	
	E7544	4000	3833	222	1508	1730	45.1	13	0	0	0	0	0	0	0	13	.3	1743	45.5	
		87000	76566	2000	2849	4349	6.3	123	0	0	0	0	0	0	0	327	.4	5176	6.8	
TOTAL		2870000	2538265	2000	62986	64986	2.6	14136	4844	26817	11551	57348	2.3	122334	4.8					
MAY 1976	E6042	27250	23226	115	231	346	1.5	567	1330	0	0	0	0	0	0	1934	8.3	2280	9.8	
	E6044	480249	403649	1234	933	2167	.5	10265	24567	0	0	0	0	0	0	35101	8.7	37268	9.2	
	E6542	55234	51236	723	1408	2131	4.2	2215	812	0	0	0	0	0	0	3027	5.9	5158	10.1	
	E6544	953186	808112	3664	4941	8605	1.1	6233	74683	0	0	0	0	0	0	2051	82967	10.3	91572	11.3
	E7042	10946	9404	61	136	197	2.1	204	437	0	0	0	0	0	0	22	663	7.1	860	9.1
	E7044	899521	767382	4771	13749	18520	2.4	14959	38937	0	0	0	0	0	0	2084	55980	7.3	74500	9.7
	E7544	316026	296370	0	19276	19276	6.5	18118	42058	18535	13523	92834	31.3	112110	37.8	115	728	37.9	744	38.8
	8044	1938	1919	0	16	16	.8	145	301	167	115	728	37.9	324492	13.7	18101	273234	11.6		
TOTAL		2744350	2361298	10568	40690	51258	2.2	52706	183725	18702	18101	273234	11.6							
JUNE 1976	E6042	4332	3596	81	71	152	4.2	42	201	0	0	0	0	0	0	244	8.8	396	11.0	
	E6044	144812	120715	6092	2499	8501	7.0	1373	0	0	0	0	0	0	0	1373	1.1	9874	8.2	
	E6046	847	635	6	10	16	2.5	2	133	0	0	0	0	0	0	136	21.4	152	23.9	
	E6542	7971	6666	237	156	393	5.9	38	218	0	0	0	0	0	0	257	3.9	650	9.8	
	E6544	177059	146818	2432	2875	5307	3.6	1725	8911	0	0	0	0	0	0	50	10686	7.3	15993	10.9
	E6546	17502	13520	99	304	403	3.0	59	1550	0	0	0	0	0	0	24	1633	12.1	2036	15.1
	E7042	282	236	8	6	14	5.9	1	8	0	0	0	0	0	0	9	3.8	23	9.7	
	E7044	29614	24950	1106	667	1863	7.5	0	265	0	0	0	0	0	0	265	1.1	2128	8.5	
	E7542	38	32	2	12	14	43.8	0	1	0	0	0	0	0	0	1	3.1	15	48.9	
	E7544	2841	2439	168	895	1063	43.6	1	65	3	12	81	3.3	1144	46.9	0	0	0	0	
	8044	50	45	3	16	19	42.2	0	1	0	0	0	0	0	0	1	2.2	20	44.4	
TOTAL		385348	319652	10234	7511	17745	5.6	3241	11353	3	89	14686	4.6	32431	10.1	18190	287920	10.7	356923	13.3
		3128698	2680950	20802	48201	69003	2.6	55947	195078	18705	18190	287920	10.7							
MAY 1977	E6042	17	15	0	0	0	0.0	0	0	0	0	0	0	0	0	0	0.0	0	0.0	
	E6044	260218	209944	671	481	1152	.5	2460	3467	1683	1000	8610	4.1	9762	4.0	0	0	0	0	
	E6542	255	217	2	3	5	2.3	2	3	0	2	10	4.6	15	6.9	0	0	0	0	
	E6544	98736	79533	471	618	1089	1.4	202	2017	1765	1193	5157	6.5	6246	7.9	0	0	0	0	
	E7044	24398	12021	450	41	491	4.1	130	250	125	47	552	4.6	1043	8.7	0	0	0	0	
TOTAL		383624	301730	1594	1143	2737	.9	2794	5737	3596	2202	14329	4.7	17066	5.7					

Appendix Table 5. Estimated interceptions of Bristol Bay sockeye by the Japanese landbased driftnet fishery, 1972-81. Interception rates (%) are in terms of catch in major groups - cont'd.

MONTH YEAR	AREA	ESTIMATED INTERCEPTIONS OF BRISTOL BAY SOCKEYE															
		CATCH IN MAJOR AGE GROUPS			IMMATURES			MATURING			TOTAL						
		TOTAL SOCKEYE CATCH	1.2	2.2	TOTAL	1.2	2.2	1.3	2.3	TOTAL	%	NO.	%				
JUNE 1977	E6042	155	123	4	3	7	5.7	0	0	0	0	0	0	2	1.6	9	7.3
	E6044	195090	146298	4165	4460	8625	5.9	0	135	0	0	0	0	135	0.1	8760	6.0
	E6046	2	1	0	0	0	0.0	0	0	0	0	0	0	0	0.0	0	0.0
	E6542	528	447	37	9	46	10.3	0	3	0	0	0	0	3	0.7	49	11.0
	E6544	532503	421370	13061	4538	17599	4.2	862	5881	0	0	0	846	7589	1.8	25188	6.0
	E7042	989	840	70	17	87	10.4	1	5	0	0	0	1	7	0.8	94	11.2
	E7044	120598	108538	13210	1936	15146	14.0	0	0	0	0	0	10	42	18.3	15146	14.0
	E7544	261	230	8	43	51	22.2	1	26	5	5	5	857	7778	1.1	93	40.4
TOTAL		850126	677847	30555	11006	41561	6.1	864	6052	5	5	5	3059	22107	2.3	66405	6.8
		1233750	979577	32149	12149	44298	4.5	3658	11789	3601	3601	3601	3059	22107	2.3	66405	6.8
MAY 1978	E6040	190	150	1	3	4	2.7	1	1	3	3	3	2	7	4.7	11	7.3
	E6042	68661	56763	499	1125	1624	2.9	511	687	518	518	518	153	1869	3.3	3493	6.2
	E6540	665	546	9	12	21	3.8	4	3	7	7	7	5	19	3.5	40	7.3
	E6542	319767	245709	2051	4000	6051	2.5	1166	1221	6739	6739	6739	5748	14874	6.1	20925	8.5
	E7040	272	223	4	5	9	4.0	2	1	3	3	3	2	8	3.6	17	7.6
	E7042	101151	80051	1302	1608	2910	3.6	364	285	1635	1635	1635	1579	3863	4.8	6773	8.5
	E7044	505976	390461	14767	11461	26228	6.7	1254	971	0	0	0	379	2604	0.7	28832	7.4
TOTAL		996682	773903	18633	18214	36847	4.8	3302	3169	8905	8905	8905	7868	23244	3.0	60091	7.8
JUNE 1978	E6042	44103	37112	562	299	861	2.3	324	1469	0	0	0	164	1957	5.3	2818	7.6
	E6542	69346	59048	1754	1219	2973	5.0	422	1980	0	0	0	221	2623	4.4	5596	9.5
	E7042	10880	9565	888	142	1030	10.8	4	59	0	0	0	46	109	1.1	1139	11.9
	E7044	146454	133142	12503	2290	14793	11.1	177	600	0	0	0	232	1009	0.8	15802	11.9
TOTAL		270783	238867	15707	3950	19657	8.2	927	4108	0	0	0	663	5698	2.4	23355	10.6
		1267465	1012770	34340	22164	56504	5.6	4229	7277	8905	8905	8905	8531	28942	2.9	85446	8.4
MAY 1979	E6042	14084	14082	241	227	468	3.3	82	204	0	0	0	0	286	2.0	754	5.4
	E6540	23	21	0	0	0	0.0	0	0	0	0	0	0	0	0.0	0	0.0
	E6542	121763	115138	244	997	1241	1.1	209	2752	633	633	633	250	3844	3.3	5085	4.4
	E7042	8243	7631	197	148	345	4.5	112	59	49	49	49	10	230	3.0	575	7.5
	E7044	324608	274424	7420	2754	10174	3.7	4754	3723	1602	1602	1602	950	11029	4.0	21203	7.7
TOTAL		468721	411296	8102	4126	12228	3.0	5157	6738	2284	2284	2284	1210	15389	3.7	27617	6.7
JUNE 1979	E6042	18665	17501	371	610	981	5.6	0	85	140	140	140	0	225	1.3	1206	6.9
	E6540	6	5	0	0	0	0.0	0	0	0	0	0	0	0	0.0	0	0.0
	E6542	121940	111635	2691	819	3510	3.1	745	4530	0	0	0	145	5420	4.9	8930	8.0
	E7040	88	69	10	1	11	12.9	0	1	0	0	0	0	1	1.4	12	17.4
	E7042	97115	87413	4199	421	4620	5.3	565	3540	0	0	0	0	4125	4.7	8745	10.0
	E7044	37662	34140	1300	152	1452	4.3	316	1231	0	0	0	120	1667	4.9	3119	9.1
TOTAL		275476	250763	8571	2003	10574	4.2	1646	9387	140	140	140	265	11438	4.6	22012	8.8
		744197	662059	16673	6129	22802	3.4	6803	16125	2424	2424	2424	1475	26827	4.1	49629	7.5

Appendix Table 5. Estimated interceptions of Bristol Bay sockeye by the Japanese landbased driftnet fishery, 1972-81. Interception rates (%) are in terms of catch in major groups - cont'd.

MONTH YEAR	AREA	TOTAL SOCKEYE CATCH	CATCH IN MAJOR AGE GROUPS	ESTIMATED INTERCEPTIONS OF BRISTOL BAY SOCKEYE										TOTAL			
				IMMATURES		MATURING						SOCKEYE					
				1.2	2.2	TOTAL	%	1.2	2.2	1.3	2.3	TOTAL	%		NU.	%	
MAY 1980	E6042	20374	17767	848	192	1040	5.9	196	442	0	0	0	8	646	3.6	1686	9.5
	E6540	169	152	3	2	5	3.3	2	1	3	0	1	7	4.6	12	7.9	
	E6542	109596	97847	362	442	804	0.8	1235	1129	4063	0	3089	9516	9.7	10320	10.5	
	E6546	8224	7838	0	0	0	0.0	20	25	800	0	341	1186	15.1	1186	15.1	
	E6548	240	230	0	0	0	0.0	2	3	7	0	12	24	10.4	24	10.4	
	E7042	21950	20795	435	616	1051	5.1	268	401	284	0	20	973	4.7	2024	9.7	
	E7044	279269	236206	6784	4094	10878	4.6	754	2104	2675	0	1058	6591	2.8	17469	7.4	
	E7046	1320	1241	0	1	1	1.1	4	16	75	0	64	159	12.8	160	12.9	
TOTAL		441142	382076	8432	5347	13779	3.0	2481	4121	7907	0	4593	19102	5.0	32881	8.6	
JUNE 1980	E6040	89	81	2	5	7	8.6	0	0	0	0	0	0	0.0	7	8.6	
	E6042	32067	29501	2630	568	3198	10.8	60	203	0	0	0	263	0.9	3461	11.7	
	E6542	91794	80081	7009	1867	8876	11.1	0	0	0	0	0	0	0.0	8876	11.1	
	E6548	1365	1233	4	8	12	1.0	5	33	0	0	29	67	5.4	79	6.4	
	E7042	117676	96681	8222	2746	10958	11.3	261	70	0	0	454	785	0.8	11753	12.2	
	E7044	15874	13989	420	110	530	3.8	76	362	0	0	145	583	4.2	1113	8.0	
		258865	221566	18287	5304	23591	10.6	402	668	0	0	628	1698	0.8	25289	11.4	
TOTAL		700007	603642	26719	10651	37370	6.2	2883	4789	7907	0	5221	20800	3.4	58170	9.6	
MAY 1981	E6042	43509	37091	797	197	994	2.7	165	854	0	0	684	1703	4.6	2697	7.3	
	E6542	122004	104571	2214	738	2952	2.8	1375	1563	1043	0	412	4393	4.2	7345	7.0	
	E7042	57026	54984	564	361	925	1.7	1928	605	1463	0	386	4382	8.0	5307	9.7	
	E7044	364075	312377	3667	2835	6502	2.1	2884	3604	10995	0	5913	23396	7.5	29898	9.6	
	E7046	9	7	0	0	0	0.0	0	0	0	0	0	0	0.0	0	0.0	
TOTAL		586623	509030	7242	4131	11373	2.2	6352	6626	13501	0	7395	33874	0.7	45247	8.9	
JUNE 1981	E6042	7824	7323	119	379	498	6.8	0	229	0	0	0	229	3.1	727	9.9	
	E6542	50725	46115	4727	925	5652	12.3	0	121	0	0	0	121	0.3	5773	12.5	
	E6544	81	68	4	1	5	7.4	1	1	0	0	0	2	2.9	7	10.3	
	E6546	64	49	5	0	5	10.2	0	1	0	0	0	1	2.0	6	12.2	
	E6548	350	287	12	4	16	5.6	4	6	0	0	3	13	4.5	29	10.1	
	E7042	117542	109125	8350	3778	12128	11.1	289	369	0	0	0	658	0.6	12786	11.7	
	E7044	55913	46564	3120	545	3665	7.9	316	739	0	0	240	1295	2.8	4960	10.7	
		232499	209531	16337	5632	21969	10.5	610	1466	0	0	243	2319	1.1	24288	11.6	
TOTAL		819122	718561	23579	9763	33342	4.6	6962	8092	13501	0	7638	36193	5.0	69335	9.7	