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# Current Resource Conditions in Georges Bank and Mid-Atlantic Sea Scallop Populations

*Results of the 1995 NEFSC*

*Sea Scallop Research Vessel Survey*

by

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## ABSTRACT

The 1995 Northeast Fisheries Science Center sea scallop survey was conducted during 19-30 June and 24 July-August 6 using the ***R/V ALBATROSS IV***. The purpose of the survey was to monitor trends in abundance, population composition, and recruitment of sea scallop (Placopecten magellanicus) resources in the Mid-Atlantic and Georges Bank regions in depths between 28-110 meters [15 to 60 fm]. A total of 468 sampling tows was conducted during the 1995 survey.

Survey indices of relative abundance (stratified mean number per tow) and biomass (stratified mean meat weight per tow) were calculated for the principal scallop areas within the Mid-Atlantic and USA Georges Bank regions. Indices were derived for: 1) pre-recruits [$<70$ mm shell height; $>80$ meat count]; 2) recruits or harvestable-sized scallops [$\geq 70$ mm shell height; $\leq 80$ meat count]; and 3) total scallops [all sizes]. In addition, percentage distributions of the number of scallops within five meat count intervals were calculated for each stratum, area, and region. Meat count refers to the number of scallop meats per pound.

Results of the 1995 survey indicate that resource abundance in the Mid-Atlantic region remains at the relatively high levels observed during 1993 and 1994. In the USA Georges Bank region, scallop abundance was at record lows in 1993 and 1994, but increased to median levels in 1995 due to the appearance of a moderately strong 1992 yearclass.

The Mid-Atlantic scallop resource had a high proportion of small scallops in 1995: 39% of the scallops caught were $>80$ count and 49% were in the 80-40 count range. Of the harvestable biomass (scallops $<80$ count), 64% of the Mid-Atlantic resource was comprised of scallops between 80-40 count, while larger-sized scallops ($<30$ meat count) accounted for only 19%.

In contrast to the Mid-Atlantic region, large scallops ($<30$ count) have been well represented in the harvestable biomass of scallops from the USA portion of Georges Bank in recent years. In 1995, 60% by weight and 34% by number of the harvestable biomass were $<30$ count. However, scallops in the 80-40 count interval have represented more than half of the number of scallops in the harvestable resource of Georges Bank since 1986.

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## INTRODUCTION

Research vessel surveys for sea scallop (Placopecten magellanicus) have been conducted by the Northeast Fisheries Science Center [NEFSC] in 1975 and annually since 1977 to monitor trends in abundance, population composition, and recruitment of USA offshore (3-200 n mi from the USA coastline) sea scallop resources. Together with commercial fisheries data, the survey results are used to evaluate stock and fishery status and to forecast future resource conditions (Serchuk and Wigley 1988, Serchuk and Wigley 1989a, 1989b, 1991, Wigley and Serchuk 1991, 1996).

This document presents the results of the 1995 NEFSC sea scallop research vessel survey, and provides an evaluation of current resource conditions, recruitment prospects, and abundance levels in the Mid-Atlantic and USA Georges Bank sea scallop populations.

## METHODS

The NEFSC sea scallop survey is conducted according to a stratified random sampling design. Offshore regions are stratified into geographical zones [strata] based on water depth and latitude (Figure 1). The number of sampling stations in each stratum is proportional to the size of the stratum. Within each stratum, station locations are assigned randomly. For selected strata in which either commercial fishing activity or sea scallop concentrations are known to occur, additional randomly-selected stations are added to the sampling plan to increase precision of survey abundance indices. Sampling stations occupied in the 1995 survey are depicted in Appendix Figure 1. The catch and LORAN-C location of each individual tow are provided in the 1995 NEFSC Sea Scallop Fishermen's Report (NEFSC 1995).

The 1995 sea scallop survey was conducted during June 19-30 and July 24-August 6 using the ***R/V ALBATROSS IV***. Areas sampled included the Mid-Atlantic and Georges Bank regions in depths between 28-110 meters [15 to 60 fm] (Figure 1). Revised strata sets developed in 1989 (see Serchuk and Wigley 1989a) for assessing resource conditions continued to be used for 1995 analyses. These strata sets are as follows:

| **Region** | **Strata Set** |
|---|---|
| Virginia - No. Carolina: | Strata 6-7. |
| Delmarva: | Strata 10-11; 14-15; 18-19. |
| New York Bight: | Strata 22-31; 33-35. |
| South Channel: | Strata 46-47; 49-55. |
| Southeast Part: | Strata 58-60. |
| USA No. Edge & Peak: | Strata 61,621,631,651,661,71,72,74. |
| CAN No. Edge & Peak: | Strata 622,632,64,652,662. |

Survey sampling procedures in 1995 were identical to those used in USA scallop surveys since 1979. Sampling was performed using a 2.44 m [8 ft] wide commercial sea scallop dredge equipped with a 5.1 cm [2 in] ring bag and a 3.8 cm [1.5 in] polypropylene mesh liner to retain small scallops. Detailed specifications of this gear are provided in Serchuk and Smolowitz (1980). Details of the survey methods used prior to 1979 are given in Serchuk et al. (1979, 1982). Survey data prior to 1979 have been standardized to the current gear specifications.

At each station, the survey dredge is towed for 15 minutes at 3.5 knots with a 3:1 wire scope. After each tow, the catch is sorted into biological and non-biological (e.g. substrate, rocks) components. All live scallops are counted and shell height measurements taken to the nearest 5 mm on all individuals. Occasionally, subsampling is necessary when large quantities of scallops are caught. By-catch of finfish and invertebrates is also enumerated and some species measured. Non-biological components are measured by volume, and substrate type and composition noted. Hydrographic and navigational data (e.g. distance towed over bottom) are recorded at each station. The survey dredge and liner are routinely inspected for damage, and repaired or replaced as appropriate.

## RESULTS

### *Sampling Intensity and Overall Catch*

A total of 468 sampling tows was conducted during the 1995 NEFSC sea scallop survey. Of these, 227 tows were taken in the Mid-Atlantic region, 193 on the USA portion of Georges Bank, and 48 on the Canadian portion of Georges Bank (Tables 1-3, Appendix Tables 1 and 2). Sampling intensity (tows per sq n mi) averaged 1:37 in the Mid-Atlantic, 1:39 on USA Georges Bank, and 1:36 on Canadian Georges Bank (Appendix Tables 1 and 2). Sampling intensity within individual strata varied from one tow per six sq n mi (Stratum 652 on Georges Bank) to one tow in 183 sq n mi (Stratum 29 in the Mid-Atlantic region).

The geographical distribution of sea scallop numbers per tow is presented in Figures 2-4. Sea scallop catches ranged from 0 (52 tows) to 11,072 scallops per tow (in stratum 652 in Canada's Georges Bank).

### *Abundance Indices*

Survey indices of relative abundance (mean number per tow) and biomass (mean meat weight per tow) were calculated for each sampling stratum (Table 1), and for sets of strata comprising the principal scallop regions within the Mid-Atlantic and USA Georges Bank areas (Tables 1-3; Figures 5 and 6). Variance estimates for the stratified mean catch per tow in numbers for the

principal scallop regions are presented in Table 4. Survey indices were estimated for pre-recruits [< 70 mm shell height; > 80 meat count], recruits (harvestable-sized scallops, ≥ 70 mm shell height; ≤ 80 meat count], and total scallops [all sizes].

Mean shell height and average meat count (number of scallop meats per pound) were also calculated for each stratum, area and region (Table 1). In addition, percentage distributions of the number of scallops within five meat count intervals (> 80 meat count; 80-40 meat count; 40-35 meat count; 35-30 meat count; and < 30 meat count) were calculated (Table 1). Meat count distributions of harvestable-sized scallops were derived for both biomass and numbers (Tables 5-13; Figures 7-9).

## MID-ATLANTIC REGION

In the Mid-Atlantic region, the total abundance of sea scallops has increased since 1992 and is presently at a relatively high level (Table 2; Figure 5). The 1995 index of total scallops per tow (170.0) was slightly higher than the 1994 index and was the third highest value in the 20-year time series. Total weight per tow (1.17 kg meats per tow) increased 46% from the 1994 value due to an increase in recruitment. Abundance and biomass of harvestable-size scallops increased by nearly half compared to 1994 values. However, pre-recruit abundance (66.4 scallops per tow) declined for the third consecutive year. Despite the decline, pre-recruit abundance remains above the median for the time series.

The Mid-Atlantic scallop resource is currently dominated by recruit-size scallops [61% of the number of scallops caught in the Mid-Atlantic region were ≤ 80 count] (Table 1). However, 81% of the recruited portion of the stock (by number) and 64% of the biomass is in the 80-40 meat count interval (Tables 6 and 8, Figure 7). This is the second highest proportion of small recruit scallops observed in the survey time series. Large scallops (< 30 meat count) accounted for only 19% of the harvestable biomass (8% by number) (Tables 6, 8, 13; Figure 7). This is the lowest proportion observed in the time series.

***New York Bight (Strata 22-31; 33-35)*** - Sea scallop abundance and biomass levels in the New York Bight have continued to increase from the low levels observed in 1992 and now are in the upper quartile for the time series. The total number per tow in 1995 (163.8 scallops) increased 11% from the 1994 value and the weight per tow (1.15 kg/tow) nearly doubled (Table 2, Figure 5). The increase in 1995 is due primarily to increases in harvestable-size scallops. Pre-recruit relative abundance (57.7 scallops per tow) declined by 43% in 1995, while relative abundance of harvestable-size scallops (106.1 scallops per tow) more than doubled the 1994 value. Harvestable biomass (0.97 kg per tow) increased 49% from 1994 (Table 2).

In 1995, the scallop resource in the New York Bight was dominated (56%) by scallops in the 80-40 count category. Only 4% of the resource consisted of large (< 30 count) scallops (Table 1). Harvestable-size scallops [< 80 count] constituted 84% of the total biomass in the area

(Table 5), and 67% of the harvestable biomass was accounted for by scallops in the 80-40 count range (Table 6), This represents the highest proportion of small harvestable scallops in the <80 count biomass for the time series. The proportion of <30 count scallops decreased to 17% of the harvestable biomass in 1995 (Tables 6 and 13; Figure 7). In terms of numbers, 82% of the harvestable biomass is accounted for by scallops between 80-40 count and only 7% by scallops <30 count (Table 8).

The overall abundance level has increased in the New York Bight area in recent years; however, the proportion of 80-40 count scallops has increased while the proportion of <30 count scallops has declined. This suggests that although resource conditions in this area are now relatively good, the fishery in this area has become more dependent on incoming recruitment than in the past.

***Delmarva (Strata 10-11; 14-15; 18-19)*** - Abundance levels in Delmarva declined slightly in 1995 (from 244.4 in 1994 to 204.7 in 1995) after a sharp (40%) decline from 1993 to 1994 (Table 2, Figure 5). However, the Delmarva resource remains at a relatively high level and consisted of approximately equal proportions of pre-recruit and recruit size scallops in the 1995 survey. Record high abundance of recruit scallops was observed in 1993 (Tables 2 and 7); however, the 1990 year class appears to have been substantially reduced in size by 1995 (Figure 12).

Of the harvestable biomass, 56% by weight and 74% by number was in the 80-40 count category in 1995 (Tables 6, 8 and 13). This is lower than the proportion of small harvestable scallops observed in 1994, but remains higher than the previous several years. Conversely, the proportion of large scallops (<30 count) in the harvestable biomass declined sharply in 1994 and increased in 1995, but remains around half the levels observed in the preceding several years. These patterns are likely the result of the strong 1990 yearclass, which dominated survey catches in 1993 and 1994. The 1990 yearclass did not appear in great abundance in 1995 survey catches (Figure 12), suggesting that it was substantially reduced by fishing operations during 1993-1995.

***Virginia - North Carolina (Strata 6-7)*** - The Virginia-North Carolina area is at the southernmost extreme of the geographic range of sea scallops. Scallop recruitment and abundance in this area tends to be highly variable. The strong 1990 yearclass observed in Delmarva in 1993 was also evident in this area (Table 2; Figure 5 and 13) and had similar effects on abundance patterns in 1994 (Figures 5 and 13). In 1995, abundance of recruit size scallops was low, suggesting the 1990 yearclass had already passed through the fishery. However, the pre-recruit index increased to its second highest level in 1995, apparently due to a moderately strong 1992 yearclass in this area (Figure 13). Of harvestable size scallops, 67% by weight and 82% by number were in the 80-40 count range (Tables 6 and 8).

## USA GEORGES BANK REGION

In the **USA portion of Georges Bank**, 1995 abundance indices increased to median levels after declining to their lowest values for the post-1984 time series during 1993 and 1994 (Table 3, Figure 6). The increased index resulted primarily from increases in the pre-recruit index (from 17.5 scallops per tow in 1994 to 82.4 in 1995); the index for recruit size scallops increased only marginally (from 21.1 to 25.1 scallops per tow), as might be expected from the low pre-recruit index in 1994.

In contrast to the Mid-Atlantic region, large scallops (<30 count) have been well represented in the harvestable biomass of scallops from the USA portion of Georges Bank in recent years. In 1995, 60% by weight and 34% by number were <30 count (Tables 10 and 12; Figure 8). However, scallops in the 80-40 count interval represented more than half of the number of scallops in the harvestable biomass since 1986.

Survey size frequency data indicate that recruitment has been poor throughout the region since the appearance of the 1988 yearclass. However in 1995, a mode suggestive of an above-average 1992 yearclass appeared in the survey height frequencies for all areas included in the USA Georges Bank region (Figure 14). The strong 1988 year class (Figures 14-17) is no longer evident in the Georges Bank population.

***South Channel (Strata 46-47; 49-55)*** - In the South Channel area of Georges Bank, abundance and biomass indices for total and pre-recruit scallops increased to above their respective medians for the time series (Table 3, Figure 6). Pre-recruit and total indices in number for 1995 were in the upper quartile and represented substantial increases over 1993 and 1994 lows. Survey size frequency data indicate the presence of a moderate 1992 year-class in the South Channel in 1995 (Figure 15). Recruit indices increased only slightly in 1995, as would be expected given the low pre-recruit indices in 1993 and 1994. The 1987-89 cohorts, which were the strongest produced in this area during the time series, are no longer detectable in the survey height frequency (Figure 15)

Scallops >80 count comprised 75% of the 1995 survey catch in numbers (36% by weight), while scallops 80-40 count accounted for 15%; only 7% of the catch was <30 count (Tables 1, 3 and 9). The harvestable stock was comprised mainly of <30 count scallops (54% by weight, 29% by number) and 80-40 count scallops (31% by weight, 57% by number) (Tables 10-12, Figure 8).

Resource abundance levels in the South Channel can be expected to improve as the 1993 yearclass grows into harvestable size.

***Southeast Part (Strata 58-60)*** - Scallop abundance in this area is low relative to the other areas on Georges Bank; however, the 1995 indices were about average for this area (Table 3, Figure 6). The abundance of pre-recruit scallops decreased slightly compared to 1994, while recruit scallops increased slightly.

A moderately strong (for this area) 1991 year class appeared in survey catches in 1994 (Figure 16). This yearclass was still evident in 1995 survey catches in addition to a pre-recruit size mode indicative of the 1992 yearclass.

Small scallops (>80 count) comprised 50% of the scallops in the Southeast Part (Table 1). Of harvestable size scallops, 39% of the numbers were large scallops (<30 count) and 67% of the harvestable biomass was <30 count (Tables 10, and 12, Figure 8).

***USA Northern Edge & Peak (Strata 61,621,631,651,661,71,72,74)*** - Total sea scallop abundance and biomass increased to median levels in 1995 after hitting record-low levels in 1993 and 1994. Indices of harvestable size scallops remained low in 1995, following the low pre-recruit indices observed in 1993 and 1994 (Table 3, Figure 6, Appendix Table 9). Pre-recruit scallops (likely the 1992 yearclass) comprised 85% by number of the USA Northern Edge and Peak resource (Table 3, Figure 17). Of the harvestable biomass, scallops <30 meat count (i.e., the year classes prior to 1991, particularly the strong 1986 and 1987 cohorts) accounted for 70% by weight and 45% by number of the resource (Tables 10 and 12, Figures 8 and 17).

## SUMMARY

Results of the 1995 NEFSC sea scallop research vessel survey indicate that resource abundance in the Mid-Atlantic region remains at a relatively high level and resource conditions in the USA Georges Bank region improved with the appearance of a moderately strong 1992 yearclass.

The relative abundance (in numbers) of sea scallops in the Mid-Atlantic region was 58% greater than in the USA Georges Bank region and the abundance of harvestable size scallops was more than 3 times greater. However, small scallops (pre-recruit size) were 24% more abundant in the Georges Bank region than in the Mid-Atlantic resource in 1995.

The Mid-Atlantic scallop resource had a high proportion of small scallops: 39% of the scallops caught were >80 count and 49% were in the 80-40 count range. Of the harvestable biomass (scallops <80 count), 64% of the Mid-Atlantic resource was comprised of scallops between 80-40 count, while larger-sized scallops (<30 meat count) accounted for only 19% (Table 13 and Figure 9).

In the USA Georges Bank region, sea scallop abundance and biomass increased in 1995 from record lows in 1993 and 1994. The increase resulted primarily from increases in the pre-recruit index (from 17.5 scallops per tow in 1994 to 82.4 in 1995). Size frequency distributions for all areas in the USA Georges Bank region show recruitment of an above-average 1992 yearclass. The index for recruit size scallops increased only marginally in 1995 (from 21.1 to 25.1 scallops per tow). However, large scallops (<30 count) continue to be well represented in the harvestable biomass of scallops from the USA portion of Georges Bank (60% by weight was <30 count).

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Table 1. Summary of 1995 NEFSC sea scallop research vessel survey data for sea scallops, by sampling stratum. Shell height data are in mm (25.4 mm = 1 inch); meat weight data are in grams (453.6 g = 1 pound); meat count refers to numbers of meats per pound, pre-recruit refers to scallops <70 mm in shell height, recruit refers to scallops ≥70 mm in shell height. Area mean number and mean weight per tow values represent stratified means weighted by stratum area.

| Stratum Area | Depth Range (fathoms) | No. of Tows | Mean Number Per Tow | | | All Scallops | | Mean Meat Weight (g) Per Tow[1] | Percent Distribution of Catch in Numbers | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Pre-recruit | Recruit | Total | Average Shell Height | Calcd Meat Count[1] | | >80 Count | 80-40 Count | 40-35 Count | 35-30 Count | <30 Count |
| 1 | 15-25 | N/S | - | - | - | - | - | - | - | - | - | - | - |
| 2 | 25-30 | N/S | - | - | - | - | - | - | - | - | - | - | - |
| 3 | 30-40 | N/S | - | - | - | - | - | - | - | - | - | - | - |
| 4 | 40-60 | N/S | - | - | - | - | - | - | - | - | - | - | - |
| 5 | 15-25 | N/S | - | - | - | - | - | - | - | - | - | - | - |
| 6 | 25-30 | 5 | 40.4 | 0.0 | 40.4 | 51.4 | 199.9 | 91.7 | 100.0 | 0 | 0 | 0 | 0 |
| 7 | 30-40 | 5 | 76.6 | 27.4 | 104.0 | 60.1 | 97.6 | 483.4 | 73.7 | 10.4 | 7.1 | 4.6 | 4.2 |
| 8 | 40-60 | N/S | - | - | - | - | - | - | - | - | - | - | - |
| Virginia - No. Carolina (6-7) | 30-60 | 10 | 55.8 | 11.7 | 67.5 | 57.1 | 118.4 | 258.5 | 82.7 | 6.8 | 4.7 | 3.0 | 2.8 |
| 9 | 15-25 | N/S | - | - | - | - | - | - | - | - | - | - | - |
| 10 | 25-30 | 8 | 150.9 | 38.8 | 189.6 | 64.7 | 89.0 | 966.3 | 79.6 | 9.7 | 2.5 | 2.6 | 5.6 |
| 11 | 30-40 | 8 | 136.6 | 120.0 | 256.6 | 68.1 | 76.3 | 1525.1 | 53.2 | 34.4 | 5.2 | 3.5 | 3.7 |
| 12 | 40-60 | N/S | - | - | - | - | - | - | - | - | - | - | - |
| 13 | 15-25 | N/S | - | - | - | - | - | - | - | - | - | - | - |
| 14 | 25-30 | 12 | 102.6 | 45.1 | 147.7 | 68.3 | 64.9 | 1032.0 | 69.5 | 13.1 | 2.9 | 2.3 | 12.2 |
| 15 | 30-40 | 12 | 163.1 | 185.8 | 348.8 | 70.6 | 71.7 | 2208.2 | 46.8 | 44.0 | 3.2 | 1.8 | 4.2 |
| 16 | 40-60 | N/S | - | - | - | - | - | - | - | - | - | - | - |
| 17 | 15-25 | N/S | - | - | - | - | - | - | - | - | - | - | - |
| 18 | 25-30 | 10 | 17.7 | 11.8 | 29.5 | 79.4 | 40.3 | 332.3 | 60.0 | 5.4 | 3.4 | 4.4 | 26.8 |
| 19 | 30-40 | 12 | 56.4 | 110.6 | 167.0 | 74.9 | 59.4 | 1274.6 | 33.8 | 51.1 | 5.5 | 3.5 | 6.0 |
| 20 | 40-60 | N/S | - | - | - | - | - | - | - | - | - | - | - |
| Delmarva (10-11; 14-15; 18-19) | 25-40 | 62 | 106.0 | 98.7 | 204.7 | 70.2 | 69.6 | 1334.3 | 51.8 | 35.9 | 3.8 | 2.6 | 5.9 |
| 21 | 15-25 | N/S | - | - | - | - | - | - | - | - | - | - | - |
| 22 | 25-30 | 8 | 15.5 | 34.0 | 49.5 | 83.4 | 37.7 | 595.9 | 31.3 | 24.2 | 6.6 | 8.8 | 29.0 |
| 23 | 30-40 | 16 | 141.1 | 344.3 | 485.3 | 73.2 | 66.6 | 3303.7 | 29.1 | 63.1 | 3.0 | 2.3 | 2.5 |
| 24 | 40-60 | 6 | 266.8 | 232.0 | 498.8 | 69.2 | 83.7 | 2701.8 | 53.5 | 44.8 | 0.5 | 0.3 | 0.8 |
| 25 | 15-25 | 4 | 3.5 | 14.0 | 17.5 | 96.7 | 22.9 | 346.5 | 20.0 | 15.7 | 1.4 | 0 | 62.9 |
| 26 | 25-30 | 12 | 31.4 | 51.8 | 83.2 | 76.5 | 51.4 | 733.5 | 37.8 | 35.5 | 3.5 | 5.2 | 18.0 |
| 27 | 30-40 | 20 | 73.5 | 164.7 | 238.2 | 74.4 | 63.4 | 1704.1 | 30.9 | 55.4 | 7.9 | 3.8 | 2.1 |
| 28 | 40-60 | 10 | 139.3 | 294.9 | 434.2 | 73.4 | 70.0 | 2812.6 | 32.1 | 64.0 | 2.4 | 1.0 | 0.5 |
| 29 | 15-25 | 6 | 7.2 | 5.0 | 12.2 | 69.6 | 60.6 | 91.0 | 58.9 | 12.3 | 9.6 | 5.5 | 13.7 |
| 30 | 25-30 | 15 | 20.0 | 77.6 | 97.6 | 80.3 | 47.7 | 928.0 | 20.5 | 48.6 | 10.8 | 9.1 | 11.0 |
| 31 | 30-40 | 24 | 68.0 | 128.0 | 196.0 | 70.7 | 68.7 | 1294.3 | 34.7 | 54.1 | 4.4 | 3.0 | 3.8 |
| 32 | 40-60 | N/S | - | - | - | - | - | - | - | - | - | - | - |
| 33 | 15-25 | 10 | 5.6 | 58.9 | 64.5 | 86.7 | 39.5 | 740.9 | 8.7 | 46.8 | 21.9 | 11.9 | 10.7 |
| 34 | 25-30 | 14 | 12.4 | 46.4 | 58.7 | 80.4 | 45.0 | 591.7 | 21.0 | 52.3 | 9.4 | 4.7 | 12.5 |
| 35 | 30-40 | 10 | 14.5 | 17.1 | 31.6 | 67.9 | 62.1 | 230.8 | 45.9 | 40.8 | 2.8 | 1.6 | 8.9 |
| 36 | 40-60 | N/S | - | - | - | - | - | - | - | - | - | - | - |
| New York Bight (22-31; 33-35) | 15-60 | 155 | 57.7 | 106.1 | 163.8 | 73.1 | 64.5 | 1151.9 | 35.2 | 53.3 | 4.2 | 2.8 | 4.4 |
| Mid-Atlantic (6-35) | 15-60 | 227 | 66.4 | 103.5 | 169.9 | 72.4 | 65.7 | 1173.3 | 39.1 | 49.3 | 4.1 | 2.8 | 4.7 |

Table 1. (continued).

| Stratum Area | Depth Range (fathoms) | No. of Tows | Mean Number Per Tow | | | All Scallops | | Mean Meat Weight (g) Per Tow[1] | Percent Distribution of Catch in Numbers | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Pre-recruit | Recruit | Total | Average Shell Height | Calcd Meat Count[1] | | >80 Count | 80-40 Count | 40-35 Count | 35-30 Count | <30 Count |
| 45 | 15-25 | N/S | - | - | - | - | - | - | - | - | - | - | - |
| 46 | 25-30 | 6 | 0.0 | 2.0 | 2.0 | 97.0 | 25.0 | 36.3 | 0 | 33.3 | 33.3 | 16.7 | 16.7 |
| 47 | 30-40 | 12 | 74.0 | 61.0 | 135.0 | 74.6 | 55.7 | 1099.9 | 54.8 | 26.3 | 3.9 | 3.4 | 11.6 |
| 48 | 40-60 | N/S | - | - | - | - | - | - | - | - | - | - | - |
| 49 | 15-25 | 9 | 98.0 | 50.8 | 148.8 | 65.9 | 81.4 | 828.6 | 65.9 | 28.8 | 1.6 | 0.4 | 3.2 |
| 50 | 25-30 | 16 | 793.4 | 166.9 | 960.4 | 57.8 | 119.1 | 3656.7 | 82.6 | 13.0 | 0.8 | 0.7 | 2.9 |
| 51 | 30-40 | 11 | 989.5 | 72.2 | 1061.6 | 52.0 | 157.7 | 3053.6 | 93.2 | 2.1 | 0.6 | 0.8 | 3.3 |
| 52 | 40-60 | 12 | 31.9 | 39.6 | 71.5 | 79.5 | 42.1 | 770.8 | 44.6 | 15.0 | 5.1 | 7.6 | 27.6 |
| 53 | 40-60 | 7 | 1.3 | 3.9 | 5.1 | 96.9 | 24.0 | 97.4 | 25.0 | 0 | 5.6 | 0 | 69.4 |
| 54 | 30-40 | 7 | 34.7 | 31.4 | 66.1 | 75.3 | 46.8 | 641.2 | 52.5 | 19.0 | 2.2 | 2.2 | 24.2 |
| 55 | 30-40 | 10 | 5.0 | 4.9 | 9.9 | 78.6 | 39.9 | 112.6 | 50.5 | 24.2 | 2.0 | 0 | 23.2 |
| 56 | 40-60 | N/S | - | - | - | - | - | - | - | - | - | - | - |
| South Channel (46-47; 49-55) | 15-60 | 90 | 120.7 | 41.2 | 161.9 | 62.7 | 84.8 | 866.1 | 74.5 | 14.5 | 1.9 | 1.7 | 7.4 |
| 57 | 30-40 | N/S | - | - | - | - | - | - | - | - | - | - | - |
| 58 | 40-60 | 8 | 5.0 | 0.6 | 5.6 | 46.8 | 96.7 | 26.4 | 88.9 | 0 | 0 | 2.2 | 8.9 |
| 59 | 30-40 | 12 | 13.8 | 23.5 | 37.3 | 83.3 | 36.7 | 461.6 | 37.1 | 28.6 | 11.4 | 6.3 | 16.7 |
| 60 | 40-60 | 12 | 16.8 | 11.6 | 28.3 | 77.8 | 38.4 | 334.3 | 59.1 | 12.9 | 3.8 | 2.1 | 22.1 |
| So. East Part (58-60) | 30-60 | 32 | 13.7 | 13.5 | 27.1 | 79.1 | 38.5 | 319.8 | 50.4 | 19.4 | 7.1 | 3.9 | 19.2 |
| 61 | 30-40 | 8 | 11.8 | 13.3 | 25.0 | 79.6 | 42.7 | 265.7 | 47.0 | 15.5 | 9.5 | 9.5 | 18.5 |
| 621 | 40-60 | 12 | 156.4 | 22.1 | 178.5 | 50.3 | 149.3 | 542.2 | 87.6 | 8.3 | 0.5 | 0.6 | 3.0 |
| 631 | 30-40 | 7 | 1.7 | 0.6 | 2.3 | 70.8 | 35.3 | 29.4 | 75.0 | 0 | 0 | 0 | 25.0 |
| 651 | 30-40 | 12 | 895.2 | 58.5 | 953.7 | 60.2 | 116.3 | 3719.1 | 93.9 | 3.8 | 0.3 | 0.2 | 1.8 |
| 661 | 40-60 | 12 | 160.4 | 27.7 | 188.1 | 60.6 | 95.3 | 895.4 | 85.3 | 4.0 | 1.0 | 1.6 | 8.1 |
| 71 | 25-30 | 6 | 78.8 | 50.5 | 129.3 | 73.5 | 41.2 | 1423.9 | 61.0 | 4.5 | 0.6 | 1.2 | 32.7 |
| 72 | 15-25 | 6 | 0.2 | 1.7 | 1.8 | 114.7 | 15.2 | 54.8 | 9.1 | 0 | 0 | 0 | 90.9 |
| 73 | 15-25 | N/S | - | - | - | - | - | - | - | - | - | - | - |
| 74 | 25-30 | 8 | 0.4 | 4.0 | 4.4 | 103.4 | 21.5 | 92.4 | 8.6 | 5.7 | 5.7 | 5.7 | 74.3 |
| USA No. Edge & Peak (61-661, 71,74) | 15-60 | 71 | 81.6 | 14.3 | 95.9 | 59.1 | 95.3 | 456.4 | 85.1 | 6.1 | 1.0 | 1.1 | 6.8 |
| USA Georges Bank | 15-60 | 193 | 82.4 | 25.1 | 107.5 | 65.0 | 82.3 | 592.5 | 76.7 | 12.0 | 1.9 | 1.6 | 7.8 |
| USA Georges Bank & Mid-Atlantic | 15-60 | 417 | 73.9 | 66.7 | 140.6 | 68.9 | 73.5 | 900.3 | 52.6 | 35.9 | 3.3 | 2.4 | 5.9 |
| 622 | 40-60 | 6 | 215.3 | 56.2 | 271.5 | 53.2 | 83.0 | 1483.9 | 79.3 | 2.5 | 1.8 | 2.1 | 14.2 |
| 632 | 30-40 | 8 | 14.8 | 44.9 | 59.6 | 85.7 | 32.6 | 830.8 | 24.7 | 38.6 | 10.1 | 4.0 | 22.6 |
| 64 | 40-60 | 16 | 73.8 | 686.8 | 760.6 | 81.3 | 46.4 | 7431.9 | 9.7 | 76.1 | 3.7 | 2.3 | 8.2 |
| 652 | 30-40 | 10 | 2160.3 | 534.3 | 2694.6 | 62.3 | 98.7 | 12385.5 | 80.2 | 14.7 | 2.8 | 0.5 | 1.8 |
| 662 | 40-60 | 8 | 474.9 | 211.3 | 686.1 | 61.7 | 82.9 | 3753.0 | 69.2 | 18.8 | 2.7 | 1.5 | 7.8 |
| CAN No. Edge & Peak (622-662, 64) | 30-60 | 48 | 185.4 | 444.0 | 629.4 | 75.4 | 53.6 | 5326.9 | 29.5 | 57.4 | 3.5 | 2.0 | 7.7 |

[1]Derived by applying NEFSC survey shell height - meat weight equations to mean shell height.
N/S = Not sampled in 1995 survey.

Table 2. USA sea scallop research survey relative abundance indices (standardized stratified mean number and mean weight per tow), [meats only, kg], mean shell height (mm), mean meat weight (g) per scallop, and average meat count (number of scallop meats per pound) of sea scallops from NEFSC surveys in the Mid-Atlantic, 1975, 1977-1995. Data are presented by principal scallop areas in the Mid-Atlantic[1]. Survey indices are presented for pre-recruit (<70 mm shell height), recruit (≥70 mm shell height) and total scallops per tow.

| Area | Year | No. of Tows | Standardized Stratified Mean Number Per Tow | | | Standardized Stratified Mean Weight (kg) Per Tow[2] | | | Mean Shell Height | Average Meat Count |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | Pre-recruit | Recruit | Total | Pre-recruit | Recruit | Total | | |
| Virginia- | 1975 | N/S | N/S | N/S | N/S | N/S | N/S | N/S | N/S | N/S |
| No. Carolina | 1977 | 1 | 0.0 | 10.0 | 10.0 | 0.00 | 0.23 | 0.23 | 108.0 | 20.0 |
| | 1978 | 3 | 15.3 | 50.3 | 65.6 | 0.06 | 1.10 | 1.16 | 91.8 | 25.7 |
| | 1979 | 3 | 23.7 | 22.7 | 46.4 | 0.04 | 0.37 | 0.41 | 71.7 | 51.3 |
| | 1980 | 3 | 6.6 | 39.0 | 45.6 | 0.02 | 0.59 | 0.61 | 87.6 | 34.1 |
| | 1981 | 3 | 0.9 | 7.6 | 8.5 | <0.01 | 0.20 | 0.20 | 107.7 | 18.8 |
| | 1982 | 7 | 0.4 | 3.7 | 4.1 | <0.01 | 0.12 | 0.12 | 111.5 | 15.8 |
| | 1983 | 8 | 25.8 | 11.7 | 37.5 | 0.10 | 0.36 | 0.46 | 78.1 | 37.2 |
| | 1984 | 9 | 0.2 | 14.6 | 14.8 | <0.01 | 0.27 | 0.27 | 98.7 | 25.3 |
| | 1985 | 10 | 1.7 | 7.3 | 9.0 | <0.01 | 0.23 | 0.23 | 104.8 | 17.8 |
| | 1986 | 10 | 5.6 | 1.8 | 7.4 | <0.02 | 0.04 | 0.06 | 69.1 | 55.9 |
| | 1987 | 10 | 0.1 | 2.1 | 2.2 | <0.01 | 0.04 | 0.04 | 93.4 | 28.3 |
| | 1988 | 10 | 3.1 | 11.0 | 14.1 | 0.01 | 0.21 | 0.22 | 89.8 | 28.9 |
| | 1989 | 10 | 35.7 | 5.9 | 41.6 | 0.07 | 0.13 | 0.20 | 57.9 | 92.9 |
| | 1990 | 6 | 36.5 | 93.1 | 129.6 | 0.07 | 0.88 | 0.95 | 73.2 | 61.7 |
| | 1991 | 10 | 37.2 | 32.0 | 69.2 | 0.10 | 0.45 | 0.55 | 71.6 | 57.5 |
| | 1992 | 10 | 4.1 | 29.2 | 33.3 | 0.01 | 0.39 | 0.40 | 85.9 | 37.7 |
| | 1993 | 10 | 245.3 | 59.1 | 304.4 | 0.83 | 0.54 | 1.37 | 64.3 | 100.5 |
| | 1994 | 10 | 13.3 | 145.5 | 158.8 | 0.05 | 1.30 | 1.35 | 79.8 | 53.5 |
| | 1995 | 10 | 55.8 | 11.7 | 67.5 | 0.11 | 0.15 | 0.26 | 57.1 | 118.4 |
| Delmarva | 1975 | 15 | 36.2 | 24.0 | 60.2 | 0.11 | 0.44 | 0.55 | 75.2 | 49.3 |
| | 1977 | 10 | 10.7 | 47.5 | 58.2 | 0.03 | 0.91 | 0.94 | 92.2 | 28.1 |
| | 1978 | 45 | 27.3 | 75.8 | 103.2 | 0.09 | 1.58 | 1.67 | 91.6 | 28.0 |
| | 1979 | 43 | 25.4 | 64.6 | 90.0 | 0.04 | 0.95 | 0.99 | 78.8 | 41.2 |
| | 1980 | 43 | 81.1 | 35.9 | 117.0 | 0.13 | 0.68 | 0.81 | 63.3 | 65.7 |
| | 1981 | 41 | 4.7 | 14.3 | 19.0 | 0.01 | 0.32 | 0.33 | 90.3 | 26.2 |
| | 1982 | 44 | 10.0 | 18.6 | 28.6 | 0.04 | 0.43 | 0.47 | 89.8 | 27.8 |
| | 1983 | 49 | 25.7 | 16.5 | 42.2 | 0.09 | 0.37 | 0.46 | 77.0 | 41.7 |
| | 1984 | 52 | 19.8 | 19.3 | 39.1 | 0.03 | 0.38 | 0.41 | 69.8 | 43.7 |
| | 1985 | 54 | 70.4 | 35.8 | 106.2 | 0.15 | 0.43 | 0.58 | 58.9 | 82.5 |
| | 1986 | 62 | 123.5 | 83.5 | 207.0 | 0.37 | 0.93 | 1.30 | 68.5 | 72.3 |
| | 1987 | 61 | 52.9 | 59.5 | 112.4 | 0.16 | 0.74 | 0.90 | 74.1 | 56.7 |
| | 1988 | 62 | 75.9 | 39.1 | 115.0 | 0.15 | 0.62 | 0.77 | 64.6 | 67.9 |
| | 1989 | 62 | 113.1 | 97.2 | 210.3 | 0.24 | 1.09 | 1.33 | 67.5 | 71.6 |
| | 1990 | 62 | 27.7 | 80.9 | 108.6 | 0.06 | 0.87 | 0.93 | 76.9 | 53.0 |
| | 1991 | 61 | 53.5 | 29.3 | 82.8 | 0.16 | 0.47 | 0.63 | 71.3 | 59.4 |
| | 1992 | 62 | 20.9 | 18.8 | 39.8 | 0.04 | 0.33 | 0.37 | 71.9 | 49.0 |
| | 1993 | 58 | 384.1 | 20.1 | 404.1 | 1.00 | 0.28 | 1.28 | 57.3 | 143.0 |
| | 1994 | 62 | 73.4 | 171.0 | 244.4 | 0.12 | 1.45 | 1.57 | 69.5 | 70.5 |
| | 1995 | 62 | 106.0 | 98.7 | 204.7 | 0.31 | 1.03 | 1.33 | 70.2 | 73.0 |

[1] New York Bight: Strata 22-31, 33-35; Delmarva: Strata 10-11, 14-15, 18-19; VA-NC: Strata 6-7.

[2] Mean meat weight derived by applying the 1977-1982 USA Mid-Atlantic research survey sea scallop shell height meat weight equation, ln Meat Weight (g) = -12.1628 + 3.2539 ln Shell Height (mm) (n = 11943, r = 0.98) to the to the survey shell height frequency distributions.

Table 2. (continued).

| Area | Year | No. of Tows | Standardized Stratified Mean Number Per Tow | | | Standardized Stratified Mean Weight (kg) Per Tow[2] | | | Mean Shell Height | Average Meat Count |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | Pre-recruit | Recruit | Total | Pre-recruit | Recruit | Total | | |
| New York Bight | 1975 | 28 | 39.4 | 34.7 | 74.1 | 0.10 | 0.62 | 0.72 | 75.3 | 46.9 |
| | 1977 | 101 | 1.4 | 56.7 | 58.1 | <0.01 | 1.03 | 1.03 | 98.6 | 25.6 |
| | 1978 | 116 | 3.3 | 52.7 | 56.0 | 0.01 | 1.15 | 1.16 | 102.8 | 21.9 |
| | 1979 | 120 | 5.3 | 17.6 | 22.9 | 0.01 | 0.43 | 0.44 | 93.6 | 23.7 |
| | 1980 | 121 | 15.4 | 15.2 | 30.6 | 0.02 | 0.36 | 0.38 | 75.5 | 35.7 |
| | 1981 | 117 | 18.8 | 19.0 | 37.8 | 0.03 | 0.29 | 0.32 | 67.7 | 53.5 |
| | 1982 | 134 | 10.9 | 20.9 | 31.8 | 0.02 | 0.33 | 0.35 | 78.4 | 41.2 |
| | 1983 | 136 | 11.5 | 14.0 | 25.5 | 0.03 | 0.29 | 0.32 | 80.3 | 36.6 |
| | 1984 | 142 | 17.4 | 18.4 | 35.8 | 0.03 | 0.29 | 0.32 | 69.2 | 51.0 |
| | 1985 | 137 | 47.4 | 30.9 | 78.3 | 0.10 | 0.43 | 0.53 | 65.6 | 67.1 |
| | 1986 | 152 | 53.2 | 49.3 | 102.5 | 0.13 | 0.65 | 0.78 | 69.6 | 59.9 |
| | 1987 | 154 | 94.5 | 46.0 | 140.5 | 0.18 | 0.58 | 0.76 | 61.7 | 83.7 |
| | 1988 | 154 | 75.9 | 100.5 | 176.4 | 0.11 | 1.25 | 1.36 | 68.6 | 58.9 |
| | 1989 | 157 | 168.6 | 81.8 | 250.4 | 0.25 | 0.90 | 1.15 | 56.4 | 99.1 |
| | 1990 | 148 | 121.1 | 92.8 | 213.9 | 0.35 | 0.88 | 1.23 | 67.2 | 78.7 |
| | 1991 | 157 | 22.2 | 53.7 | 75.9 | 0.06 | 0.67 | 0.73 | 78.3 | 47.3 |
| | 1992 | 157 | 17.7 | 25.3 | 43.0 | 0.04 | 0.37 | 0.41 | 75.5 | 47.4 |
| | 1993 | 146 | 46.6 | 24.0 | 70.6 | 0.10 | 0.31 | 0.41 | 64.9 | 77.9 |
| | 1994 | 155 | 102.1 | 45.8 | 147.9 | 0.12 | 0.49 | 0.61 | 55.6 | 109.1 |
| | 1995 | 155 | 57.7 | 106.1 | 163.8 | 0.19 | 0.97 | 1.15 | 73.1 | 67.0 |
| Mid-Atlantic (All Areas) | 1975 | 43 | 38.8 | 32.6 | 71.4 | 0.10 | 0.59 | 0.69 | 75.3 | 47.2 |
| | 1977 | 112 | 2.8 | 55.1 | 57.9 | 0.01 | 1.00 | 1.01 | 97.7 | 25.9 |
| | 1978 | 164 | 7.8 | 56.8 | 64.6 | 0.02 | 1.23 | 1.25 | 99.4 | 23.4 |
| | 1979 | 166 | 9.1 | 26.2 | 35.3 | 0.02 | 0.52 | 0.54 | 86.5 | 29.8 |
| | 1980 | 167 | 27.1 | 19.2 | 46.3 | 0.04 | 0.42 | 0.46 | 70.1 | 45.8 |
| | 1981 | 161 | 16.1 | 18.0 | 34.1 | 0.02 | 0.30 | 0.32 | 70.1 | 48.2 |
| | 1982 | 185 | 10.6 | 20.3 | 30.9 | 0.03 | 0.34 | 0.37 | 80.4 | 38.1 |
| | 1983 | 193 | 14.3 | 14.4 | 28.7 | 0.04 | 0.30 | 0.34 | 79.4 | 37.8 |
| | 1984 | 203 | 17.6 | 18.5 | 36.1 | 0.02 | 0.31 | 0.33 | 69.5 | 49.2 |
| | 1985 | 201 | 51.0 | 31.5 | 82.5 | 0.11 | 0.43 | 0.54 | 64.1 | 69.8 |
| | 1986 | 224 | 65.2 | 54.8 | 120.0 | 0.17 | 0.69 | 0.86 | 69.3 | 63.3 |
| | 1987 | 225 | 85.7 | 47.9 | 133.6 | 0.17 | 0.61 | 0.78 | 63.6 | 78.0 |
| | 1988 | 226 | 74.9 | 88.3 | 163.2 | 0.12 | 1.12 | 1.24 | 68.1 | 59.9 |
| | 1989 | 229 | 156.9 | 83.6 | 240.5 | 0.24 | 0.93 | 1.17 | 58.1 | 93.5 |
| | 1990 | 216 | 103.2 | 90.6 | 193.8 | 0.29 | 0.88 | 1.17 | 68.2 | 74.9 |
| | 1991 | 228 | 28.0 | 49.0 | 77.0 | 0.08 | 0.63 | 0.71 | 76.8 | 49.4 |
| | 1992 | 229 | 18.1 | 24.2 | 42.3 | 0.03 | 0.37 | 0.40 | 75.0 | 47.5 |
| | 1993 | 214 | 109.9 | 23.8 | 133.6 | 0.28 | 0.30 | 0.58 | 60.7 | 104.5 |
| | 1994 | 227 | 95.8 | 69.6 | 165.4 | 0.11 | 0.67 | 0.80 | 59.6 | 94.2 |
| | 1995 | 227 | 66.4 | 103.5 | 170.0 | 0.21 | 0.97 | 1.17 | 72.4 | 97.8 |

[1] New York Bight: Strata 22-31, 33-35; Delmarva: Strata 10-11, 14-15, 18-19; VA-NC: Strata 6-7.

[2] Mean meat weight derived by applying the 1977-1982 USA Mid-Atlantic research survey sea scallop shell height meat weight equation, ln Meat Weight (g) = -12.1628 + 3.2539 ln Shell Height (mm) (n = 11943, r = 0.98) to the to the survey shell height frequency distributions.

Table 3. USA sea scallop research survey relative abundance indices (standardized stratified mean number and mean weight per tow), [meats only, kg], mean shell height (mm), mean meat weight (g) per scallop, and average meat count (number of scallop meats per pound) of sea scallops from NEFSC surveys on Georges Bank, 1975, 1977-1995. Data are presented by principal scallop areas for Georges Bank[1]. Survey indices are presented for pre-recruit (<70 mm shell height), recruit (≥70 mm shell height), and total scallops per tow.

| Area | Year | No. of Tows | Standardized Stratified Mean Number Per Tow | | | Standardized Stratified Mean Weight (kg) Per Tow[2] | | | Mean Shell Height | Average Meat Count |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | Pre-recruit | Recruit | Total | Pre-recruit | Recruit | Total | | |
| South Channel | 1975 | 58 | 45.1 | 29.9 | 75.0 | 0.11 | 0.81 | 0.92 | 76.4 | 37.0 |
| | 1977 | 30 | 6.3 | 89.1 | 95.4 | 0.02 | 1.94 | 1.96 | 101.3 | 22.1 |
| | 1978 | 46 | 7.7 | 49.7 | 57.4 | 0.02 | 1.15 | 1.17 | 101.2 | 22.2 |
| | 1979 | 47 | 6.8 | 88.2 | 95.0 | 0.01 | 1.53 | 1.54 | 93.2 | 28.0 |
| | 1980 | 40 | 79.7 | 30.2 | 109.9 | 0.12 | 0.55 | 0.67 | 58.2 | 74.6 |
| | 1981 | 56 | 15.5 | 36.5 | 52.0 | 0.03 | 0.65 | 0.68 | 80.5 | 34.8 |
| | 1982 | 61 | 213.8 | 53.0 | 266.8 | 0.49 | 0.67 | 1.16 | 58.6 | 103.9 |
| | 1983 | 69 | 19.0 | 55.8 | 74.8 | 0.06 | 0.77 | 0.83 | 81.4 | 41.0 |
| | 1984 | 69 | 13.6 | 17.7 | 31.3 | 0.03 | 0.36 | 0.39 | 77.3 | 36.7 |
| | 1985 | 77 | 40.3 | 47.3 | 87.6 | 0.11 | 0.76 | 0.87 | 75.0 | 45.7 |
| | 1986 | 68 | 115.3 | 37.0 | 152.3 | 0.24 | 0.58 | 0.82 | 59.5 | 84.2 |
| | 1987 | 86 | 84.6 | 56.1 | 140.7 | 0.17 | 0.72 | 0.89 | 63.6 | 71.6 |
| | 1988 | 91 | 32.5 | 36.0 | 68.5 | 0.08 | 0.46 | 0.54 | 70.6 | 57.7 |
| | 1989 | 88 | 21.7 | 15.1 | 36.8 | 0.06 | 0.27 | 0.33 | 72.0 | 50.5 |
| | 1990 | 76 | 258.8 | 49.9 | 308.7 | 0.54 | 0.60 | 1.14 | 55.9 | 122.5 |
| | 1991 | 86 | 432.1 | 64.2 | 496.3 | 0.80 | 0.71 | 1.51 | 52.8 | 149.5 |
| | 1992 | 85 | 222.8 | 171.8 | 394.6 | 0.78 | 1.38 | 2.16 | 67.5 | 82.8 |
| | 1993 | 77 | 30.6 | 24.5 | 55.1 | 0.11 | 0.28 | 0.39 | 71.7 | 63.3 |
| | 1994 | 88 | 18.7 | 37.6 | 56.3 | 0.04 | 0.44 | 0.48 | 74.2 | 53.4 |
| | 1995 | 90 | 120.7 | 41.2 | 161.9 | 0.31 | 0.55 | 0.87 | 62.7 | 97.8 |
| Southeast Part | 1975 | 21 | 1.8 | 38.4 | 40.2 | <0.01 | 1.02 | 1.02 | 110.3 | 17.8 |
| | 1977 | 21 | 3.2 | 27.2 | 30.4 | 0.01 | 0.68 | 0.69 | 103.6 | 20.0 |
| | 1978 | 18 | 2.2 | 27.1 | 29.3 | <0.01 | 0.93 | 0.93 | 117.2 | 14.2 |
| | 1979 | 20 | 7.7 | 21.2 | 28.9 | 0.01 | 0.71 | 0.72 | 99.4 | 18.2 |
| | 1980 | 20 | 21.5 | 41.7 | 63.2 | 0.03 | 0.71 | 0.74 | 78.2 | 38.8 |
| | 1981 | 19 | 1.4 | 19.4 | 20.8 | <0.01 | 0.46 | 0.46 | 102.5 | 20.5 |
| | 1982 | 22 | 0.8 | 9.8 | 10.6 | <0.01 | 0.32 | 0.32 | 113.5 | 15.2 |
| | 1983 | 20 | 11.3 | 9.2 | 20.5 | 0.02 | 0.25 | 0.27 | 78.1 | 34.0 |
| | 1984 | 20 | 4.6 | 12.9 | 17.5 | 0.01 | 0.23 | 0.24 | 85.7 | 33.0 |
| | 1985 | 28 | 9.1 | 11.8 | 20.9 | 0.02 | 0.22 | 0.24 | 75.3 | 39.9 |
| | 1986 | 32 | 28.9 | 20.6 | 49.5 | 0.05 | 0.41 | 0.46 | 66.2 | 48.5 |
| | 1987 | 32 | 23.1 | 39.6 | 62.7 | 0.06 | 0.60 | 0.66 | 79.0 | 42.8 |
| | 1988 | 32 | 1.4 | 16.1 | 17.5 | <0.01 | 0.32 | 0.32 | 96.9 | 24.6 |
| | 1989 | 31 | 23.6 | 11.8 | 35.4 | 0.07 | 0.23 | 0.30 | 70.2 | 54.4 |
| | 1990 | 32 | 1.6 | 8.4 | 10.0 | <0.01 | 0.15 | 0.15 | 88.7 | 30.3 |
| | 1991 | 32 | 18.5 | 14.1 | 32.6 | 0.04 | 0.21 | 0.25 | 65.2 | 60.2 |
| | 1992 | 32 | 10.3 | 20.5 | 30.8 | 0.03 | 0.34 | 0.37 | 83.3 | 37.7 |
| | 1993 | 32 | 2.4 | 9.5 | 11.8 | 0.01 | 0.23 | 0.24 | 97.5 | 22.8 |
| | 1994 | 32 | 19.6 | 8.9 | 28.5 | 0.03 | 0.25 | 0.28 | 66.9 | 46.2 |
| | 1995 | 32 | 13.7 | 13.5 | 27.1 | 0.04 | 0.28 | 0.32 | 79.1 | 67.6 |

[1] South Channel: Strata 46-47, 49-55; Southeast Part: Strata 58-60; No. Edge & Peak: Strata 61-662, 71-72, and 74.

[2] Mean meat weight derived by applying the 1978-1982 USA Georges Bank research survey sea scallop shell height meat weight equation, ln Meat Weight (g) = -11.7656 + 3.1693 ln Shell Height (mm) (n = 5863, r = 0.98) to the to the survey shell height frequency distributions.

[3] Not sampled.

[4] Not calculated due to incomplete survey coverage.

[5] Stratum 72 not sampled, excluded from analyses.

Table 3. (continued).

| Area | Year | No. of Tows | Standardized Stratified Mean Number Per Tow | | | Standardized Stratified Mean Weight (kg) Per Tow[2] | | | Mean Shell Height | Average Meat Count |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | Pre-recruit | Recruit | Total | Pre-recruit | Recruit | Total | | |
| USA Northern Edge and Peak | 1985 | 67 | 21.8 | 26.6 | 48.4 | 0.06 | 0.39 | 0.45 | 72.2 | 48.9 |
| | 1986 | 70 | 45.6 | 28.6 | 74.2 | 0.13 | 0.48 | 0.61 | 70.4 | 55.2 |
| | 1987 | 71 | 62.0 | 54.6 | 116.6 | 0.12 | 0.73 | 0.85 | 67.1 | 62.1 |
| | 1988 | 71 | 65.8 | 60.9 | 126.7 | 0.15 | 0.77 | 0.92 | 66.4 | 62.6 |
| | 1989[3] | N/S | N/S | N/S | N/S | N/S | N/S | N/S | N/S | N/S |
| | 1990[4] | 65 | 66.9 | 196.8 | 263.7 | 0.22 | 1.83 | 2.05 | 75.8 | 58.3 |
| | 1991 | 71 | 118.7 | 66.9 | 185.6 | 0.31 | 0.85 | 1.16 | 66.1 | 72.4 |
| | 1992 | 69 | 26.1 | 45.0 | 71.1 | 0.08 | 0.60 | 0.68 | 77.6 | 47.3 |
| | 1993 | 67 | 2.7 | 15.6 | 18.3 | 0.01 | 0.25 | 0.26 | 88.6 | 32.4 |
| | 1994 | 70 | 14.9 | 10.4 | 25.3 | 0.02 | 0.22 | 0.24 | 69.4 | 47.7 |
| | 1995 | 71 | 81.6 | 14.3 | 95.9 | 0.21 | 0.25 | 0.46 | 59.1 | 119.1 |
| USA Georges Bank | 1985 | 172 | 26.5 | 31.8 | 58.3 | 0.07 | 0.50 | 0.57 | 74.2 | 46.4 |
| | 1986 | 170 | 61.3 | 28.9 | 90.2 | 0.14 | 0.49 | 0.63 | 64.4 | 64.9 |
| | 1987 | 189 | 62.6 | 51.9 | 114.5 | 0.12 | 0.70 | 0.82 | 66.8 | 63.0 |
| | 1988 | 194 | 38.0 | 40.8 | 78.8 | 0.09 | 0.54 | 0.63 | 69.4 | 56.6 |
| | 1989[5] | - | - | - | - | - | - | - | - | - |
| | 1990[4] | 173 | 135.2 | 87.8 | 223.0 | 0.31 | 0.89 | 1.20 | 63.9 | 84.1 |
| | 1991 | 189 | 224.1 | 51.4 | 278.2 | 0.45 | 0.65 | 1.10 | 56.4 | 114.8 |
| | 1992 | 186 | 102.7 | 91.2 | 193.9 | 0.36 | 0.86 | 1.22 | 69.4 | 72.3 |
| | 1993 | 176 | 14.0 | 17.8 | 31.8 | 0.05 | 0.26 | 0.31 | 77.5 | 46.9 |
| | 1994 | 190 | 17.5 | 21.1 | 38.6 | 0.04 | 0.31 | 0.35 | 71.8 | 50.6 |
| | 1995 | 193 | 82.4 | 25.1 | 107.5 | 0.21 | 0.38 | 0.60 | 65.0 | 99.0 |
| Canada Northern Edge and Peak | 1985 | 41 | 186.0 | 460.3 | 646.3 | 0.58 | 4.20 | 4.78 | 74.1 | 61.3 |
| | 1986 | 146 | 379.6 | 466.0 | 845.6 | 0.80 | 6.01 | 6.81 | 72.3 | 56.3 |
| | 1987 | 47 | 293.0 | 231.7 | 524.7 | 0.59 | 3.04 | 3.63 | 66.9 | 65.6 |
| | 1988 | 48 | 153.7 | 227.1 | 380.8 | 0.36 | 2.77 | 3.13 | 72.8 | 55.3 |
| | 1989[3] | N/S | N/S | N/S | N/S | N/S | N/S | N/S | N/S | N/S |
| | 1990 | 41 | 431.7 | 287.9 | 719.6 | 0.68 | 3.80 | 4.48 | 61.9 | 72.9 |
| | 1991 | 14 | 206.4 | 98.3 | 304.7 | 0.53 | 1.62 | 2.15 | 66.7 | 64.3 |
| | 1992[3] | N/S | N/S | N/S | N/S | N/S | N/S | N/S | N/S | N/S |
| | 1993 | 48 | 19.5 | 199.2 | 218.7 | 0.06 | 3.25 | 3.31 | 92.8 | 30.0 |
| | 1994 | 47 | 110.6 | 237.2 | 347.8 | 0.19 | 3.54 | 3.73 | 78.5 | 42.3 |
| | 1995 | 48 | 185.4 | 444.0 | 629.4 | 0.48 | 4.85 | 5.33 | 75.4 | 60.1 |

[1] South Channel: Strata 46-47, 49-55; Southeast Part: Strata 58-60; No. Edge & Peak: Strata 61-662, 71-72, and 74.

[2] Mean meat weight derived by applying the 1978-1982 USA Georges Bank research survey sea scallop shell height meat weight equation, ln Meat Weight (g) = -11.7656 + 3.1693 ln Shell Height (mm) (n = 5863, r = 0.98) to the to the survey shell height frequency distributions.

[3] Not sampled.

[4] Not calculated due to incomplete survey coverage.

[5] Stratum 72 not sampled, excluded from analyses.

Table 3. (continued).

| Area | Year | No. of Tows | Standardized Stratified Mean Number Per Tow | | | Standardized Stratified Mean Weight (kg) Per Tow[2] | | | Mean Shell Height | Average Meat Count |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | Pre-recruit | Recruit | Total | Pre-recruit | Recruit | Total | | |
| Georges Bank | 1975 | 130 | 51.7 | 74.6 | 126.3 | 0.13 | 1.34 | 1.47 | 79.9 | 39.0 |
| (All Areas) | 1977 | 122 | 34.3 | 218.3 | 252.6 | 0.12 | 3.18 | 3.30 | 87.6 | 34.7 |
| | 1978 | 140 | 79.7 | 184.0 | 263.7 | 0.14 | 3.88 | 4.02 | 87.1 | 29.8 |
| | 1979 | 220 | 36.6 | 152.3 | 188.9 | 0.10 | 2.70 | 2.80 | 88.6 | 30.6 |
| | 1980 | 371 | 377.4 | 92.3 | 469.7 | 0.52 | 1.37 | 1.89 | 53.4 | 112.6 |
| | 1981 | 176 | 97.2 | 152.4 | 249.6 | 0.22 | 1.62 | 1.84 | 70.6 | 61.5 |
| | 1982 | 163 | 91.0 | 51.2 | 142.2 | 0.22 | 0.74 | 0.96 | 66.5 | 66.9 |
| | 1983 | 171 | 31.9 | 38.2 | 70.1 | 0.06 | 0.63 | 0.69 | 73.4 | 46.3 |
| | 1984 | 171 | 148.7 | 34.6 | 183.3 | 0.15 | 0.57 | 0.72 | 49.1 | 114.9 |
| | 1985 | 213 | 56.3 | 111.6 | 167.9 | 0.17 | 1.19 | 1.36 | 74.1 | 56.2 |
| | 1986 | 316 | 129.9 | 123.0 | 252.9 | 0.28 | 1.68 | 1.96 | 70.1 | 58.5 |
| | 1987 | 236 | 105.5 | 85.4 | 190.9 | 0.21 | 1.14 | 1.35 | 66.9 | 64.3 |
| | 1988 | 242 | 59.5 | 75.6 | 135.1 | 0.14 | 0.96 | 1.10 | 71.2 | 55.9 |
| | 1989[4] | - | - | - | - | - | - | - | - | - |
| | 1990[5] | 214 | 193.6 | 127.3 | 320.9 | 0.38 | 1.47 | 1.85 | 63.0 | 78.7 |
| | 1991 | 203 | 220.8 | 62.3 | 283.1 | 0.46 | 0.83 | 1.29 | 58.5 | 99.2 |
| | 1992[4] | - | - | - | - | - | - | - | - | - |
| | 1993 | 224 | 15.0 | 51.6 | 66.6 | 0.05 | 0.82 | 0.87 | 86.8 | 34.9 |
| | 1994 | 237 | 51.4 | 97.0 | 148.4 | 0.08 | 1.48 | 1.56 | 77.6 | 42.8 |
| | 1995 | 238 | 101.6 | 103.0 | 204.5 | 0.26 | 0.37 | 0.57 | 66.9 | 91.8 |

[1] South Channel: Strata 46-47, 49-55; Southeast Part: Strata 58-60; No. Edge & Peak: Strata 61-662, 71-72, and 74.
[2] Mean meat weight derived by applying the 1978-1982 USA Georges Bank research survey sea scallop shell height meat weight equation, ln Meat Weight (g) = -11.7656 + 3.1693 ln Shell Height (mm) (n = 5863, r = 0.98) to the to the survey shell height frequency distributions.
[3] Not sampled.
[4] Not calculated due to incomplete survey coverage.
[5] Stratum 72 not sampled, excluded from analyses.

Table 4. Standardized mean catch (number) per tow of sea scallops from 1995 USA sea scallop research vessel survey in the Mid-Atlantic and Georges Bank regions. Standard deviation of the mean (S.E.), coefficient of variation [C.V.: 100*(S.E./Mean)], and 95% confidence limits are provided as indices of variability. Data are summarized by principal sea scallop areas in the Mid-Atlantic and Georges Bank regions.

| Region | Mean | S.E. | C.V. | Confidence Limits |
|---|---|---|---|---|
| Virginia-NC | 67.5 | 10.0 | 14.8 | 47.9 - 87.0 |
| Delmarva | 204.7 | 26.3 | 12.8 | 153.1 - 256.2 |
| New York Bight | 163.8 | 27.4 | 16.7 | 110.0 - 217.6 |
| Mid-Atlantic | 169.9 | 21.8 | 16.0 | 127.2 - 212.6 |
| South Channel | 161.9 | 40.4 | 25.0 | 82.6 - 241.2 |
| Southeast Part | 27.1 | 5.5 | 20.1 | 16.4 - 37.9 |
| USA Northern Edge and Peak | 95.9 | 28.4 | 29.6 | 40.2 - 151.7 |
| CAN Northern Edge and Peak | 629.4 | 276.0 | 43.9 | 88.4 - 1170.4 |
| USA Georges Bank | 107.5 | 74.3 | 29.0 | 0 - 253.1 |

Table 5. Distribution of standardized stratified mean weight (g, meat) per tow among various meat count intervals for sea scallops from NEFSC sea scallop research vessel surveys in the Mid- Atlantic, 1975, 1977-1995.

| | | | | Meat Weight (g, meat) Per Tow [1] | | | | |
|---|---|---|---|---|---|---|---|---|
| | | Total Biomass | Harvestable[2] Biomass | Meat Count Interval[3] | | | | |
| Area | Year | Per Tow(g) | Per Tow (g) | 80-40 | 40-35 | 35-30 | 30-25 | <25 |
| Virginia- | 1975 | N/S | N/S | N/S | N/S | N/S | N/S | N/S |
| North Carolina | 1977 | 227 | 227 | 11 | 13 | 15 | 18 | 170 |
| | 1978 | 1159 | 1097 | 177 | 7 | 15 | 18 | 880 |
| | 1979 | 411 | 372 | 111 | 49 | 46 | 26 | 140 |
| | 1980 | 608 | 592 | 174 | 35 | 24 | 55 | 304 |
| | 1981 | 204 | 201 | 4 | 4 | 9 | 15 | 169 |
| | 1982 | 119 | 118 | 1 | 4 | 4 | 3 | 106 |
| | 1983 | 458 | 361 | 26 | 7 | 3 | 4 | 321 |
| | 1984 | 265 | 265 | 35 | 49 | 48 | 28 | 105 |
| | 1985 | 231 | 228 | 1 | - | 5 | 18 | 204 |
| | 1986 | 60 | 44 | 4 | - | 1 | 3 | 36 |
| | 1987 | 35 | 35 | 10 | 2 | 3 | 3 | 17 |
| | 1988 | 222 | 215 | 16 | 12 | 26 | 30 | 131 |
| | 1989 | 203 | 134 | 10 | 11 | 7 | 10 | 96 |
| | 1990 | 952 | 880 | 591 | 123 | 82 | 23 | 61 |
| | 1991 | 546 | 452 | 149 | 42 | 26 | 28 | 207 |
| | 1992 | 401 | 390 | 127 | 52 | 72 | 47 | 92 |
| | 1993 | 1374 | 536 | 283 | 31 | 43 | 68 | 111 |
| | 1994 | 1347 | 1303 | 1066 | 143 | 37 | 17 | 40 |
| | 1995 | 259 | 149 | 42 | 40 | 31 | 24 | 11 |
| Delmarva | 1975 | 555 | 444 | 48 | 42 | 51 | 63 | 240 |
| | 1977 | 941 | 911 | 162 | 72 | 63 | 69 | 545 |
| | 1978 | 1672 | 1584 | 186 | 74 | 78 | 108 | 1138 |
| | 1979 | 991 | 951 | 327 | 62 | 50 | 53 | 459 |
| | 1980 | 808 | 678 | 104 | 17 | 33 | 73 | 451 |
| | 1981 | 329 | 320 | 47 | 8 | 6 | 10 | 249 |
| | 1982 | 467 | 431 | 38 | 12 | 19 | 25 | 337 |
| | 1983 | 459 | 371 | 42 | 18 | 14 | 11 | 286 |
| | 1984 | 406 | 374 | 61 | 38 | 42 | 28 | 205 |
| | 1985 | 584 | 430 | 176 | 19 | 18 | 27 | 190 |
| | 1986 | 1299 | 925 | 416 | 115 | 110 | 91 | 193 |
| | 1987 | 899 | 739 | 244 | 148 | 139 | 91 | 117 |
| | 1988 | 768 | 621 | 109 | 77 | 86 | 88 | 261 |
| | 1989 | 1332 | 1090 | 582 | 138 | 93 | 69 | 208 |
| | 1990 | 930 | 867 | 493 | 116 | 75 | 66 | 117 |
| | 1991 | 633 | 470 | 80 | 50 | 59 | 59 | 222 |
| | 1992 | 368 | 326 | 66 | 17 | 19 | 24 | 200 |
| | 1993 | 1282 | 276 | 98 | 14 | 14 | 7 | 143 |
| | 1994 | 1572 | 1451 | 1262 | 33 | 10 | 9 | 137 |
| | 1995 | 1334 | 1025 | 572 | 100 | 80 | 86 | 188 |

Table 5. (continued).

| Area | Year | Total Biomass Per Tow(g) | Harvestable[2] Biomass Per Tow (g) | Meat Weight (g, meat) Per Tow [1] Meat Count Interval[3] 80-40 | 40-35 | 35-30 | 30-25 | <25 |
|---|---|---|---|---|---|---|---|---|
| New York Bight | 1975 | 717 | 622 | 94 | 53 | 63 | 65 | 347 |
| | 1977 | 1029 | 1025 | 165 | 68 | 95 | 142 | 555 |
| | 1978 | 1158 | 1151 | 58 | 45 | 92 | 142 | 814 |
| | 1979 | 439 | 430 | 28 | 7 | 15 | 22 | 358 |
| | 1980 | 378 | 356 | 33 | 12 | 16 | 15 | 280 |
| | 1981 | 321 | 292 | 86 | 16 | 14 | 13 | 163 |
| | 1982 | 350 | 327 | 93 | 24 | 22 | 24 | 164 |
| | 1983 | 317 | 289 | 34 | 18 | 20 | 24 | 193 |
| | 1984 | 318 | 294 | 89 | 30 | 18 | 13 | 144 |
| | 1985 | 530 | 427 | 140 | 40 | 40 | 41 | 166 |
| | 1986 | 776 | 651 | 268 | 60 | 51 | 43 | 229 |
| | 1987 | 761 | 582 | 239 | 85 | 59 | 46 | 153 |
| | 1988 | 1357 | 1249 | 568 | 137 | 89 | 84 | 371 |
| | 1989 | 1146 | 901 | 452 | 100 | 76 | 58 | 215 |
| | 1990 | 1232 | 882 | 553 | 80 | 55 | 36 | 158 |
| | 1991 | 727 | 671 | 300 | 63 | 47 | 44 | 217 |
| | 1992 | 411 | 373 | 105 | 40 | 40 | 33 | 154 |
| | 1993 | 411 | 305 | 118 | 28 | 28 | 19 | 112 |
| | 1994 | 615 | 491 | 289 | 40 | 27 | 22 | 113 |
| | 1995 | 1152 | 965 | 642 | 88 | 70 | 57 | 109 |
| Mid-Atlantic | 1975 | 686 | 588 | 85 | 51 | 61 | 64 | 327 |
| (All Areas) | 1977 | 1012 | 1005 | 163 | 69 | 91 | 131 | 551 |
| | 1978 | 1251 | 1228 | 82 | 50 | 89 | 134 | 873 |
| | 1979 | 538 | 523 | 83 | 18 | 22 | 27 | 373 |
| | 1980 | 458 | 417 | 48 | 13 | 19 | 26 | 311 |
| | 1981 | 321 | 296 | 78 | 14 | 12 | 13 | 179 |
| | 1982 | 368 | 343 | 82 | 21 | 21 | 24 | 195 |
| | 1983 | 344 | 305 | 36 | 18 | 19 | 21 | 211 |
| | 1984 | 333 | 308 | 83 | 31 | 23 | 16 | 155 |
| | 1985 | 536 | 425 | 144 | 36 | 36 | 38 | 171 |
| | 1986 | 861 | 693 | 291 | 70 | 61 | 51 | 220 |
| | 1987 | 777 | 604 | 236 | 96 | 73 | 54 | 145 |
| | 1988 | 1237 | 1123 | 478 | 125 | 88 | 84 | 348 |
| | 1989 | 1167 | 925 | 470 | 105 | 79 | 59 | 212 |
| | 1990 | 1174 | 880 | 543 | 87 | 59 | 41 | 150 |
| | 1991 | 708 | 632 | 258 | 60 | 49 | 47 | 218 |
| | 1992 | 403 | 365 | 99 | 36 | 36 | 32 | 162 |
| | 1993 | 580 | 303 | 116 | 26 | 26 | 18 | 117 |
| | 1994 | 796 | 673 | 474 | 40 | 24 | 19 | 116 |
| | 1995 | 1173 | 965 | 622 | 90 | 71 | 62 | 122 |

[1] Meat weight values derived from shell height values using 1977-1982 USA research survey equation, ln Meat Weight (g) = -12.1628 + 3.2539 ln Shell Height (mm) (n = 11943, r = 0.98).

[2] Stratified mean weight (g, meat) per tow for sea scallops ≥70 mm; ≤80 count.

[3] Meat count is expressed as number of meats per pound.

Table 6. Percentage distribution of harvestable biomass (meat weight) of sea scallops in the Mid-Atlantic region, within various meat count intervals. Harvestable biomass is defined as all sea scallops ≥70 mm shell height. Data derived from distribution of standardized stratified mean meat weight per tow in NEFSC sea scallop research vessel surveys in the Mid-Atlantic, 1975, 1977-1995.

| | | Percent of Harvestable Biomass Meat Count Interval[1] | | | | | |
|---|---|---|---|---|---|---|---|
| Area | Year | 80 - 40 | 40 - 35 | 35 - 30 | 30 - 25 | <30 | <25 |
| Virginia- | 1975 | N/S | N/S | N/S | N/S | N/S | N/S |
| North Carolina | 1977 | 4.7 | 5.7 | 6.7 | 7.9 | 82.9 | 75.0 |
| | 1978 | 16.1 | 0.7 | 1.4 | 1.6 | 81.8 | 80.2 |
| | 1979 | 29.8 | 13.3 | 12.3 | 6.9 | 44.6 | 37.7 |
| | 1980 | 29.4 | 5.9 | 4.1 | 9.3 | 60.6 | 51.3 |
| | 1981 | 1.9 | 1.8 | 4.4 | 7.7 | 91.9 | 84.2 |
| | 1982 | 1.3 | 3.1 | 3.7 | 2.2 | 91.9 | 89.7 |
| | 1983 | 7.1 | 2.0 | 0.9 | 1.1 | 90.0 | 88.9 |
| | 1984 | 13.2 | 18.4 | 18.3 | 10.5 | 50.1 | 39.6 |
| | 1985 | 0.3 | - | 2.3 | 7.6 | 97.4 | 89.8 |
| | 1986 | 9.1 | - | 3.0 | 6.9 | 87.9 | 81.0 |
| | 1987 | 29.3 | 4.2 | 7.5 | 8.8 | 59.0 | 50.2 |
| | 1988 | 7.6 | 5.7 | 12.1 | 14.0 | 74.6 | 60.6 |
| | 1989 | 7.0 | 8.5 | 5.2 | 7.7 | 79.3 | 71.6 |
| | 1990 | 67.1 | 14.0 | 9.3 | 2.6 | 9.6 | 7.0 |
| | 1991 | 33.0 | 9.4 | 5.8 | 6.1 | 51.8 | 45.7 |
| | 1992 | 32.6 | 13.2 | 18.5 | 12.0 | 35.7 | 23.7 |
| | 1993 | 52.8 | 5.9 | 7.9 | 12.7 | 33.4 | 20.7 |
| | 1994 | 81.8 | 11.0 | 2.8 | 1.3 | 4.4 | 3.1 |
| | 1995 | 28.1 | 27.1 | 20.9 | 16.4 | 24.0 | 7.6 |
| Delmarva | 1975 | 10.8 | 9.4 | 11.6 | 14.1 | 68.2 | 54.1 |
| | 1977 | 17.8 | 8.0 | 6.9 | 7.5 | 67.3 | 59.8 |
| | 1978 | 11.8 | 4.7 | 4.9 | 6.8 | 78.6 | 71.8 |
| | 1979 | 34.4 | 6.5 | 5.2 | 5.7 | 53.9 | 48.2 |
| | 1980 | 15.4 | 2.5 | 4.8 | 10.8 | 77.3 | 66.5 |
| | 1981 | 14.8 | 2.7 | 1.8 | 3.0 | 80.7 | 77.7 |
| | 1982 | 8.7 | 2.7 | 4.6 | 5.8 | 84.0 | 78.2 |
| | 1983 | 11.4 | 5.0 | 3.8 | 2.8 | 79.8 | 77.0 |
| | 1984 | 16.2 | 10.1 | 11.4 | 7.5 | 62.3 | 54.8 |
| | 1985 | 40.8 | 4.6 | 4.1 | 6.3 | 50.5 | 44.2 |
| | 1986 | 45.0 | 12.4 | 11.9 | 9.8 | 30.7 | 20.9 |
| | 1987 | 33.0 | 20.0 | 18.8 | 12.3 | 28.2 | 15.9 |
| | 1988 | 17.6 | 12.5 | 13.9 | 14.1 | 56.0 | 41.9 |
| | 1989 | 53.4 | 12.6 | 8.6 | 6.3 | 25.4 | 19.1 |
| | 1990 | 56.8 | 13.4 | 8.7 | 7.6 | 21.1 | 13.5 |
| | 1991 | 17.0 | 10.6 | 12.6 | 12.6 | 59.8 | 47.2 |
| | 1992 | 20.2 | 5.0 | 5.8 | 7.5 | 69.0 | 61.5 |
| | 1993 | 35.5 | 5.1 | 5.0 | 2.7 | 54.4 | 51.7 |
| | 1994 | 86.9 | 2.3 | 0.7 | 0.6 | 10.1 | 9.5 |
| | 1995 | 55.7 | 9.7 | 7.8 | 8.4 | 26.7 | 18.3 |

Table 6. (continued).

| Area | Year | Percent of Harvestable Biomass Meat Count Interval[1] 80 - 40 | 40 - 35 | 35 - 30 | 30 - 25 | <30 | <25 |
|---|---|---|---|---|---|---|---|
| New York Bight | 1975 | 15.1 | 8.5 | 10.2 | 10.4 | 66.2 | 55.8 |
| | 1977 | 16.0 | 6.7 | 9.3 | 13.9 | 68.0 | 54.1 |
| | 1978 | 5.0 | 3.9 | 8.0 | 12.3 | 83.1 | 70.8 |
| | 1979 | 6.5 | 1.8 | 3.5 | 5.0 | 88.2 | 83.2 |
| | 1980 | 9.3 | 3.4 | 4.6 | 4.0 | 82.7 | 78.7 |
| | 1981 | 29.5 | 5.4 | 4.7 | 4.6 | 60.4 | 55.8 |
| | 1982 | 28.6 | 7.3 | 6.6 | 7.3 | 57.5 | 50.2 |
| | 1983 | 12.0 | 6.2 | 6.9 | 8.4 | 74.9 | 66.5 |
| | 1984 | 30.4 | 10.0 | 6.2 | 4.3 | 53.4 | 49.1 |
| | 1985 | 32.7 | 9.4 | 9.5 | 9.5 | 48.4 | 38.9 |
| | 1986 | 41.1 | 9.3 | 7.8 | 6.6 | 41.8 | 35.2 |
| | 1987 | 41.0 | 14.7 | 10.1 | 7.9 | 34.2 | 26.3 |
| | 1988 | 45.5 | 10.9 | 7.2 | 6.7 | 36.4 | 29.7 |
| | 1989 | 50.2 | 11.0 | 8.5 | 6.4 | 30.3 | 23.9 |
| | 1990 | 62.7 | 9.1 | 6.3 | 4.0 | 21.9 | 17.9 |
| | 1991 | 44.7 | 9.4 | 7.0 | 6.6 | 38.9 | 32.3 |
| | 1992 | 28.3 | 10.8 | 10.7 | 9.0 | 50.2 | 41.2 |
| | 1993 | 38.5 | 9.3 | 9.4 | 6.3 | 42.8 | 36.5 |
| | 1994 | 58.9 | 8.2 | 5.6 | 4.4 | 27.3 | 22.9 |
| | 1995 | 66.5 | 9.1 | 7.2 | 5.9 | 17.2 | 11.3 |
| Mid-Atlantic (All Areas) | 1975 | 15.1 | 8.5 | 10.2 | 10.4 | 66.2 | 55.8 |
| | 1977 | 16.3 | 6.8 | 9.0 | 13.0 | 67.9 | 54.9 |
| | 1978 | 6.7 | 4.1 | 7.2 | 10.9 | 82.0 | 71.1 |
| | 1979 | 15.9 | 3.4 | 4.1 | 5.3 | 76.6 | 71.3 |
| | 1980 | 11.4 | 3.2 | 4.6 | 6.1 | 80.8 | 74.7 |
| | 1981 | 26.4 | 4.9 | 4.1 | 4.3 | 64.6 | 60.3 |
| | 1982 | 24.0 | 6.2 | 6.2 | 6.9 | 63.6 | 56.7 |
| | 1983 | 11.8 | 5.9 | 6.1 | 7.0 | 76.2 | 69.2 |
| | 1984 | 27.1 | 10.2 | 7.4 | 5.1 | 55.3 | 50.2 |
| | 1985 | 34.0 | 8.4 | 8.5 | 8.9 | 49.1 | 40.2 |
| | 1986 | 42.0 | 10.0 | 8.8 | 7.4 | 39.2 | 31.8 |
| | 1987 | 39.2 | 15.8 | 12.0 | 8.9 | 33.0 | 24.1 |
| | 1988 | 42.6 | 11.1 | 7.8 | 7.5 | 38.5 | 31.0 |
| | 1989 | 50.8 | 11.3 | 8.5 | 6.4 | 29.4 | 23.0 |
| | 1990 | 61.7 | 9.9 | 6.7 | 4.7 | 21.7 | 17.0 |
| | 1991 | 40.9 | 9.5 | 7.7 | 7.4 | 41.9 | 34.5 |
| | 1992 | 27.1 | 9.9 | 10.0 | 8.8 | 53.0 | 44.2 |
| | 1993 | 38.4 | 8.5 | 8.6 | 5.8 | 44.5 | 38.7 |
| | 1994 | 70.4 | 5.9 | 3.6 | 2.9 | 20.1 | 17.2 |
| | 1995 | 64.3 | 9.3 | 7.4 | 6.4 | 19.0 | 12.6 |

[1] Meat count is expressed as number of meats per pound.

Table 7. Distribution of standardized mean number per tow among various meat count intervals for sea scallops from NEFSC sea scallop research vessel surveys in the Mid-Atlantic, 1975, 1977-1995.

Stratified Mean Number of Scallops Per Tow

| Area | Year | Total Number Per Tow | Harvestable Number Per Tow | Meat Count Interval | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | | 80-40 | 40-35 | 35-30 | 30-25 | <25 |
| Virginia- | 1975 | N/S | N/S | N/S | N/S | N/S | N/S | N/S |
| North Carolina | 1977 | 10.0 | 10.0 | 1.0 | 1.0 | 1.0 | 1.0 | 6.0 |
| | 1978 | 65.6 | 50.3 | 26.2 | 0.6 | 1.0 | 1.0 | 21.5 |
| | 1979 | 46.4 | 22.7 | 11.0 | 3.9 | 3.0 | 1.4 | 3.4 |
| | 1980 | 45.6 | 39.0 | 20.7 | 2.7 | 1.6 | 3.1 | 10.9 |
| | 1981 | 8.5 | 7.6 | 0.4 | 0.3 | 0.6 | 0.9 | 5.4 |
| | 1982 | 4.1 | 3.7 | 0.1 | 0.3 | 0.3 | 0.1 | 2.9 |
| | 1983 | 37.5 | 11.7 | 4.1 | 0.6 | 0.2 | 0.2 | 6.6 |
| | 1984 | 14.8 | 14.6 | 3.4 | 3.8 | 3.2 | 1.5 | 2.7 |
| | 1985 | 9.0 | 7.3 | 0.1 | - | 0.3 | 1.0 | 5.9 |
| | 1986 | 7.4 | 1.8 | 0.5 | - | 0.1 | 0.2 | 1.0 |
| | 1987 | 2.2 | 2.1 | 1.2 | 0.1 | 0.2 | 0.2 | 0.4 |
| | 1988 | 14.1 | 11.0 | 1.9 | 1.0 | 1.7 | 1.7 | 4.7 |
| | 1989 | 41.6 | 5.9 | 1.3 | 0.9 | 0.4 | 0.6 | 2.7 |
| | 1990 | 129.6 | 93.1 | 75.2 | 9.6 | 5.4 | 1.3 | 1.6 |
| | 1991 | 69.2 | 32.0 | 18.0 | 3.3 | 1.7 | 1.6 | 7.4 |
| | 1992 | 33.3 | 29.2 | 14.8 | 4.0 | 4.7 | 2.6 | 3.1 |
| | 1993 | 304.4 | 59.1 | 45.5 | 2.4 | 2.8 | 3.8 | 4.6 |
| | 1994 | 158.7 | 145.5 | 129.5 | 11.1 | 2.4 | 1.0 | 1.5 |
| | 1995 | 67.5 | 11.7 | 4.6 | 3.2 | 2.0 | 1.4 | 0.5 |
| Delmarva | 1975 | 60.2 | 24.0 | 5.7 | 3.2 | 3.4 | 3.5 | 8.2 |
| | 1977 | 58.2 | 47.5 | 17.7 | 5.7 | 4.1 | 3.8 | 16.2 |
| | 1978 | 103.2 | 75.8 | 22.0 | 5.8 | 5.1 | 6.0 | 36.9 |
| | 1979 | 90.0 | 64.6 | 38.9 | 4.8 | 3.3 | 3.0 | 14.6 |
| | 1980 | 117.0 | 35.9 | 12.8 | 1.3 | 2.2 | 4.1 | 15.5 |
| | 1981 | 19.0 | 14.3 | 5.4 | 0.7 | 0.4 | 0.5 | 7.3 |
| | 1982 | 28.6 | 18.6 | 5.3 | 0.9 | 1.3 | 1.4 | 9.7 |
| | 1983 | 42.2 | 16.5 | 6.3 | 1.4 | 0.9 | 0.6 | 7.3 |
| | 1984 | 39.1 | 19.3 | 6.7 | 2.9 | 2.8 | 1.6 | 5.3 |
| | 1985 | 106.2 | 35.8 | 25.9 | 1.5 | 1.2 | 1.5 | 5.7 |
| | 1986 | 207.0 | 83.5 | 55.9 | 8.9 | 7.2 | 5.1 | 6.4 |
| | 1987 | 112.4 | 59.5 | 29.1 | 11.5 | 9.2 | 5.1 | 4.6 |
| | 1988 | 115.0 | 39.1 | 12.8 | 6.0 | 5.7 | 4.9 | 9.7 |
| | 1989 | 210.3 | 97.2 | 69.1 | 10.7 | 6.1 | 3.9 | 7.4 |
| | 1990 | 108.6 | 80.9 | 58.7 | 9.1 | 5.0 | 3.7 | 4.4 |
| | 1991 | 82.8 | 29.3 | 10.1 | 3.9 | 3.9 | 3.3 | 8.1 |
| | 1992 | 39.8 | 18.8 | 7.8 | 1.3 | 1.2 | 1.4 | 7.1 |
| | 1993 | 404.1 | 20.1 | 13.0 | 1.1 | 0.9 | 0.4 | 4.7 |
| | 1994 | 244.4 | 171.0 | 162.9 | 2.6 | 0.6 | 0.5 | 4.4 |
| | 1995 | 204.7 | 98.7 | 73.5 | 7.8 | 5.3 | 4.8 | 7.3 |

Table 7. (continued).

| Area | Year | Total Number Per Tow | Harvestable Number Per Tow | Meat Count Interval 80-40 | 40-35 | 35-30 | 30-25 | <25 |
|---|---|---|---|---|---|---|---|---|
| | | | Stratified Mean Number of Scallops Per Tow | | | | | |
| New York Bight | 1975 | 74.1 | 34.7 | 10.7 | 4.1 | 4.2 | 3.6 | 12.1 |
| | 1977 | 58.1 | 56.7 | 17.4 | 5.4 | 6.3 | 7.9 | 19.7 |
| | 1978 | 56.0 | 52.7 | 6.7 | 3.5 | 6.1 | 7.9 | 28.5 |
| | 1979 | 22.9 | 17.6 | 3.6 | 0.6 | 1.0 | 1.2 | 11.2 |
| | 1980 | 30.6 | 15.2 | 3.9 | 0.9 | 1.1 | 0.8 | 8.5 |
| | 1981 | 37.8 | 19.0 | 11.2 | 1.2 | 0.9 | 0.8 | 4.9 |
| | 1982 | 31.8 | 20.9 | 11.4 | 1.9 | 1.4 | 1.3 | 4.9 |
| | 1983 | 25.5 | 14.0 | 4.1 | 1.4 | 1.3 | 1.4 | 5.8 |
| | 1984 | 35.8 | 18.4 | 9.9 | 2.3 | 1.2 | 0.7 | 4.3 |
| | 1985 | 78.3 | 30.9 | 17.5 | 3.1 | 2.7 | 2.3 | 5.3 |
| | 1986 | 102.5 | 49.3 | 31.4 | 4.7 | 3.3 | 2.4 | 7.5 |
| | 1987 | 140.5 | 46.0 | 27.5 | 6.7 | 3.9 | 2.6 | 5.3 |
| | 1988 | 176.4 | 100.5 | 67.6 | 10.7 | 5.9 | 4.6 | 11.7 |
| | 1989 | 250.4 | 81.8 | 59.0 | 7.8 | 5.0 | 3.2 | 6.8 |
| | 1990 | 213.9 | 92.8 | 75.8 | 6.3 | 3.6 | 2.0 | 5.1 |
| | 1991 | 75.9 | 53.7 | 36.4 | 4.9 | 3.1 | 2.4 | 6.9 |
| | 1992 | 43.0 | 25.3 | 12.7 | 3.2 | 2.6 | 1.9 | 4.9 |
| | 1993 | 70.6 | 24.0 | 15.1 | 2.2 | 1.9 | 1.0 | 3.8 |
| | 1994 | 147.9 | 45.8 | 35.9 | 3.1 | 1.8 | 1.2 | 3.8 |
| | 1995 | 163.8 | 106.1 | 87.4 | 6.9 | 4.6 | 3.2 | 4.1 |
| Mid-Atlantic (All Areas) | 1975 | 71.4 | 32.6 | 9.7 | 4.0 | 4.0 | 3.6 | 11.3 |
| | 1977 | 57.9 | 55.1 | 17.3 | 5.4 | 5.9 | 7.3 | 19.2 |
| | 1978 | 64.6 | 56.8 | 9.7 | 3.9 | 5.8 | 7.5 | 29.9 |
| | 1979 | 35.3 | 26.2 | 10.1 | 1.4 | 1.4 | 1.5 | 11.8 |
| | 1980 | 46.3 | 19.2 | 5.7 | 1.0 | 1.3 | 1.4 | 9.8 |
| | 1981 | 34.1 | 18.0 | 10.1 | 1.1 | 0.8 | 0.7 | 5.3 |
| | 1982 | 30.9 | 20.3 | 10.1 | 1.7 | 1.4 | 1.3 | 5.8 |
| | 1983 | 28.7 | 14.4 | 4.5 | 1.4 | 1.2 | 1.2 | 6.1 |
| | 1984 | 36.1 | 18.5 | 9.2 | 2.4 | 1.5 | 0.9 | 4.5 |
| | 1985 | 82.5 | 31.5 | 18.8 | 2.8 | 2.4 | 2.1 | 5.4 |
| | 1986 | 120.0 | 54.8 | 35.4 | 5.4 | 4.0 | 2.8 | 7.2 |
| | 1987 | 133.6 | 47.9 | 27.5 | 7.4 | 4.8 | 3.0 | 5.2 |
| | 1988 | 163.2 | 88.3 | 56.9 | 9.7 | 5.8 | 4.7 | 11.2 |
| | 1989 | 240.5 | 83.6 | 60.1 | 8.2 | 5.2 | 3.3 | 6.8 |
| | 1990 | 193.8 | 90.6 | 72.7 | 6.8 | 3.9 | 2.3 | 4.9 |
| | 1991 | 77.0 | 49.0 | 31.4 | 4.7 | 3.2 | 2.6 | 7.1 |
| | 1992 | 42.3 | 24.2 | 11.9 | 2.8 | 2.4 | 1.8 | 5.3 |
| | 1993 | 133.6 | 23.8 | 15.1 | 2.1 | 1.7 | 1.0 | 3.9 |
| | 1994 | 165.4 | 69.6 | 60.0 | 3.1 | 1.6 | 1.1 | 3.8 |
| | 1995 | 169.9 | 103.5 | 83.8 | 7.0 | 4.7 | 3.5 | 4.6 |

Table 8. Percentage distribution of harvestable numbers of sea scallops in the Mid-Atlantic region, within various meat count intervals. Harvestable scallops are defined as all scallops ≥70 mm shell height. Data derived from distribution of standardized stratified mean number per tow of scallops in NEFSC sea scallop research vessel surveys in the Mid-Atlantic, 1975, 1977-1995.

| | | Percent of Harvestable Scallops By Meat Count Interval[1] | | | | | |
|---|---|---|---|---|---|---|---|
| Area | Year | 80 - 40 | 40 - 35 | 35 - 30 | 30 - 25 | <30 | <25 |
| Virginia- | 1975 | N/S | N/S | N/S | N/S | N/S | N/S |
| North Carolina | 1977 | 10.0 | 10.0 | 10.0 | 10.0 | 70.0 | 60.0 |
| | 1978 | 52.2 | 1.1 | 2.0 | 2.0 | 44.7 | 42.7 |
| | 1979 | 48.4 | 17.0 | 13.2 | 6.3 | 21.4 | 15.1 |
| | 1980 | 53.1 | 7.0 | 4.0 | 7.9 | 35.9 | 28.0 |
| | 1981 | 5.6 | 3.8 | 7.6 | 11.3 | 83.0 | 71.7 |
| | 1982 | 3.9 | 7.7 | 7.7 | 3.8 | 80.7 | 76.9 |
| | 1983 | 34.8 | 4.9 | 1.8 | 1.8 | 58.5 | 56.7 |
| | 1984 | 23.2 | 26.1 | 21.8 | 10.6 | 28.9 | 18.3 |
| | 1985 | 1.2 | - | 4.6 | 13.2 | 94.2 | 81.0 |
| | 1986 | 29.6 | - | 4.9 | 9.8 | 65.5 | 55.7 |
| | 1987 | 56.7 | 5.5 | 8.1 | 8.1 | 29.7 | 21.6 |
| | 1988 | 17.4 | 8.7 | 15.5 | 15.3 | 58.4 | 43.1 |
| | 1989 | 21.3 | 15.0 | 7.8 | 9.7 | 55.9 | 46.2 |
| | 1990 | 80.7 | 10.4 | 5.8 | 1.4 | 3.1 | 1.7 |
| | 1991 | 56.3 | 10.4 | 5.4 | 4.8 | 27.9 | 23.1 |
| | 1992 | 50.6 | 13.8 | 16.2 | 8.9 | 19.4 | 10.5 |
| | 1993 | 77.0 | 4.2 | 4.7 | 6.4 | 14.1 | 7.7 |
| | 1994 | 89.0 | 7.7 | 1.7 | 0.6 | 1.6 | 1.0 |
| | 1995 | 39.4 | 27.0 | 17.5 | 11.7 | 16.1 | 4.4 |
| Delmarva | 1975 | 23.9 | 13.5 | 14.0 | 14.6 | 48.6 | 34.0 |
| | 1977 | 37.3 | 11.9 | 8.6 | 8.0 | 42.2 | 34.2 |
| | 1978 | 29.0 | 7.7 | 6.7 | 7.9 | 56.6 | 48.7 |
| | 1979 | 60.3 | 7.5 | 5.0 | 4.6 | 27.2 | 22.6 |
| | 1980 | 35.7 | 3.8 | 6.0 | 11.3 | 54.5 | 43.2 |
| | 1981 | 37.8 | 4.7 | 2.7 | 3.8 | 54.8 | 51.0 |
| | 1982 | 28.7 | 5.0 | 6.9 | 7.4 | 59.4 | 52.0 |
| | 1983 | 38.0 | 8.7 | 5.6 | 3.6 | 47.7 | 44.1 |
| | 1984 | 34.7 | 15.3 | 14.5 | 8.1 | 35.5 | 27.4 |
| | 1985 | 72.4 | 4.3 | 3.2 | 4.2 | 20.1 | 15.9 |
| | 1986 | 67.0 | 10.7 | 8.6 | 6.1 | 13.7 | 7.6 |
| | 1987 | 48.9 | 19.4 | 15.4 | 8.6 | 16.3 | 7.7 |
| | 1988 | 32.7 | 15.5 | 14.5 | 12.5 | 37.3 | 24.8 |
| | 1989 | 71.1 | 11.0 | 6.3 | 4.0 | 11.6 | 7.6 |
| | 1990 | 72.6 | 11.2 | 6.1 | 4.6 | 10.1 | 5.5 |
| | 1991 | 34.6 | 13.2 | 13.3 | 11.2 | 38.9 | 27.7 |
| | 1992 | 41.6 | 6.8 | 6.6 | 7.2 | 45.0 | 37.8 |
| | 1993 | 64.9 | 5.5 | 4.5 | 2.0 | 25.1 | 23.1 |
| | 1994 | 95.2 | 1.5 | 0.4 | 0.3 | 2.9 | 2.6 |
| | 1995 | 74.5 | 7.9 | 5.4 | 4.8 | 12.2 | 7.4 |

Table 8. (continued).

| Area | Year | Percent of Harvestable Scallops By Meat Count Interval[1] 80 - 40 | 40 - 35 | 35 - 30 | 30 - 25 | <30 | <25 |
|---|---|---|---|---|---|---|---|
| New York Bight | 1975 | 30.8 | 11.9 | 12.0 | 10.4 | 45.3 | 34.9 |
| | 1977 | 30.7 | 9.4 | 11.1 | 14.0 | 48.8 | 34.8 |
| | 1978 | 12.8 | 6.7 | 11.5 | 15.0 | 69.0 | 54.0 |
| | 1979 | 20.4 | 3.3 | 5.6 | 6.8 | 70.7 | 63.9 |
| | 1980 | 25.8 | 6.2 | 7.0 | 5.3 | 61.0 | 55.7 |
| | 1981 | 59.1 | 6.5 | 4.7 | 4.0 | 29.7 | 25.7 |
| | 1982 | 54.3 | 8.9 | 6.8 | 6.3 | 30.0 | 23.7 |
| | 1983 | 29.5 | 9.9 | 9.4 | 9.7 | 51.2 | 41.5 |
| | 1984 | 53.6 | 12.5 | 6.5 | 3.9 | 27.4 | 23.5 |
| | 1985 | 56.7 | 10.1 | 8.6 | 7.3 | 24.6 | 17.3 |
| | 1986 | 63.6 | 9.5 | 6.8 | 4.9 | 20.1 | 15.2 |
| | 1987 | 59.8 | 14.5 | 8.4 | 5.6 | 17.3 | 11.7 |
| | 1988 | 67.3 | 10.6 | 5.8 | 4.7 | 16.3 | 11.6 |
| | 1989 | 72.2 | 9.5 | 6.1 | 3.9 | 12.2 | 8.3 |
| | 1990 | 81.7 | 6.8 | 3.9 | 2.1 | 7.6 | 5.5 |
| | 1991 | 67.7 | 9.2 | 5.7 | 4.6 | 17.4 | 12.8 |
| | 1992 | 50.4 | 12.5 | 10.3 | 7.4 | 26.8 | 19.4 |
| | 1993 | 62.9 | 9.2 | 7.8 | 4.5 | 20.1 | 15.6 |
| | 1994 | 78.5 | 6.8 | 3.9 | 2.6 | 10.8 | 8.2 |
| | 1995 | 82.4 | 6.5 | 4.3 | 3.0 | 6.8 | 3.8 |
| Mid-Atlantic (All Areas) | 1975 | 29.8 | 12.1 | 12.3 | 11.0 | 45.8 | 34.8 |
| | 1977 | 31.5 | 9.7 | 10.8 | 13.2 | 48.0 | 34.8 |
| | 1978 | 17.1 | 6.9 | 10.2 | 13.2 | 65.8 | 52.6 |
| | 1979 | 38.4 | 5.3 | 5.5 | 5.9 | 50.8 | 44.9 |
| | 1980 | 29.8 | 5.4 | 6.6 | 7.4 | 58.2 | 50.8 |
| | 1981 | 55.9 | 6.2 | 4.4 | 3.9 | 33.5 | 29.6 |
| | 1982 | 49.9 | 8.2 | 6.9 | 6.5 | 35.0 | 28.5 |
| | 1983 | 31.3 | 9.7 | 8.5 | 8.3 | 50.5 | 42.2 |
| | 1984 | 49.8 | 13.2 | 8.1 | 4.7 | 28.9 | 24.2 |
| | 1985 | 59.7 | 8.9 | 7.5 | 6.7 | 23.9 | 17.2 |
| | 1986 | 64.5 | 9.9 | 7.3 | 5.2 | 18.3 | 13.1 |
| | 1987 | 57.4 | 15.6 | 9.9 | 6.3 | 17.1 | 10.8 |
| | 1988 | 64.4 | 11.0 | 6.6 | 5.3 | 18.0 | 12.7 |
| | 1989 | 71.9 | 9.8 | 6.2 | 4.0 | 12.1 | 8.1 |
| | 1990 | 80.2 | 7.5 | 4.3 | 2.5 | 8.0 | 5.5 |
| | 1991 | 64.1 | 9.6 | 6.5 | 5.3 | 19.8 | 14.5 |
| | 1992 | 49.2 | 11.7 | 9.9 | 7.4 | 29.2 | 21.8 |
| | 1993 | 63.7 | 8.5 | 7.2 | 4.1 | 20.6 | 16.5 |
| | 1994 | 86.2 | 4.5 | 2.3 | 1.5 | 7.0 | 5.5 |
| | 1995 | 80.9 | 6.3 | 4.5 | 3.3 | 7.8 | 4.5 |

[1] Meat count is expressed as number of meats per pound.

Table 9. Distribution of standardized stratified mean weight (g, meat) per tow among various meat count intervals for sea scallops from NEFSC sea scallop research vessel surveys on Georges Bank, 1975, 1977-1995.

| | | | | Meat Weight (g, meat) Per Tow [1] | | | | |
|---|---|---|---|---|---|---|---|---|
| | | Total Biomass | Harvestable[2] Biomass | Meat Count Interval[3] | | | | |
| Area | Year | Per Tow(g) | Per Tow (g) | 80-40 | 40-35 | 35-30 | 30-25 | <25 |
| South Channel | 1975 | 918 | 812 | 39 | 26 | 34 | 43 | 670 |
| | 1977 | 1957 | 1938 | 156 | 102 | 218 | 220 | 1242 |
| | 1978 | 1173 | 1149 | 51 | 45 | 74 | 118 | 861 |
| | 1979 | 1541 | 1529 | 475 | 141 | 45 | 38 | 830 |
| | 1980 | 668 | 552 | 127 | 15 | 13 | 21 | 376 |
| | 1981 | 677 | 652 | 165 | 39 | 32 | 27 | 389 |
| | 1982 | 1165 | 671 | 296 | 34 | 22 | 21 | 298 |
| | 1983 | 827 | 773 | 313 | 67 | 55 | 53 | 285 |
| | 1984 | 387 | 360 | 59 | 20 | 22 | 26 | 233 |
| | 1985 | 869 | 763 | 174 | 56 | 100 | 117 | 316 |
| | 1986 | 820 | 577 | 153 | 42 | 41 | 38 | 303 |
| | 1987 | 891 | 724 | 281 | 77 | 69 | 59 | 238 |
| | 1988 | 539 | 459 | 188 | 37 | 36 | 34 | 164 |
| | 1989 | 331 | 271 | 57 | 14 | 17 | 17 | 166 |
| | 1990 | 1143 | 603 | 259 | 68 | 65 | 53 | 158 |
| | 1991 | 1505 | 707 | 376 | 49 | 34 | 29 | 219 |
| | 1992 | 2162 | 1377 | 1081 | 67 | 59 | 40 | 130 |
| | 1993 | 394 | 281 | 137 | 16 | 13 | 13 | 102 |
| | 1994 | 478 | 438 | 237 | 57 | 34 | 26 | 84 |
| | 1995 | 866 | 553 | 173 | 39 | 43 | 52 | 246 |
| Southeast Part | 1975 | 1023 | 1018 | 16 | 20 | 36 | 67 | 879 |
| | 1977 | 687 | 679 | 57 | 30 | 29 | 24 | 539 |
| | 1978 | 934 | 928 | 19 | 10 | 15 | 14 | 870 |
| | 1979 | 720 | 710 | 34 | 6 | 14 | 13 | 643 |
| | 1980 | 739 | 707 | 245 | 52 | 25 | 12 | 373 |
| | 1981 | 461 | 458 | 55 | 30 | 25 | 16 | 332 |
| | 1982 | 316 | 315 | 9 | 9 | 11 | 7 | 279 |
| | 1983 | 273 | 248 | 14 | 4 | 12 | 19 | 199 |
| | 1984 | 240 | 228 | 63 | 28 | 12 | 10 | 115 |
| | 1985 | 238 | 219 | 46 | 15 | 14 | 19 | 125 |
| | 1986 | 463 | 407 | 78 | 19 | 18 | 13 | 279 |
| | 1987 | 664 | 604 | 153 | 116 | 73 | 35 | 227 |
| | 1988 | 323 | 319 | 46 | 22 | 28 | 36 | 187 |
| | 1989 | 296 | 233 | 25 | 17 | 19 | 26 | 146 |
| | 1990 | 150 | 146 | 41 | 9 | 11 | 5 | 80 |
| | 1991 | 245 | 210 | 65 | 9 | 8 | 5 | 123 |
| | 1992 | 371 | 337 | 65 | 38 | 38 | 48 | 148 |
| | 1993 | 235 | 229 | 15 | 7 | 10 | 15 | 182 |
| | 1994 | 280 | 248 | 9 | 8 | 14 | 12 | 205 |
| | 1995 | 320 | 278 | 50 | 25 | 16 | 7 | 180 |

Table 9. (continued).

| Area | Year | Total Biomass Per Tow(g) | Harvestable[2] Biomass Per Tow (g) | Meat Weight (g, meat) Per Tow [1] Meat Count Interval[3] 80-40 | 40-35 | 35-30 | 30-25 | <25 |
|---|---|---|---|---|---|---|---|---|
| USA | 1985 | 450 | 393 | 125 | 30 | 26 | 17 | 195 |
| Northern Edge | 1986 | 610 | 481 | 103 | 38 | 43 | 33 | 264 |
| and Peak | 1987 | 852 | 735 | 286 | 59 | 62 | 62 | 266 |
| | 1988 | 918 | 772 | 302 | 104 | 74 | 65 | 227 |
| | 1989[4] | N/S | N/S | N/S | N/S | N/S | N/S | N/S |
| | 1990[5] | 2052 | 1832 | 1457 | 159 | 58 | 40 | 118 |
| | 1991 | 1163 | 848 | 344 | 92 | 71 | 76 | 265 |
| | 1992 | 682 | 605 | 214 | 73 | 60 | 51 | 207 |
| | 1993 | 256 | 250 | 61 | 28 | 19 | 22 | 120 |
| | 1994 | 241 | 218 | 26 | 13 | 12 | 13 | 154 |
| | 1995 | 456 | 250 | 47 | 12 | 16 | 22 | 154 |
| USA | 1985 | 574 | 505 | 127 | 37 | 54 | 58 | 229 |
| Georges Bank | 1986 | 632 | 489 | 111 | 34 | 36 | 29 | 279 |
| (All Areas) | 1987 | 826 | 701 | 254 | 79 | 67 | 55 | 246 |
| | 1988 | 632 | 544 | 199 | 59 | 48 | 46 | 192 |
| | 1989[6] | - | - | - | - | - | - | - |
| | 1990[5] | 1202 | 894 | 597 | 84 | 50 | 37 | 126 |
| | 1991 | 1099 | 649 | 295 | 56 | 42 | 41 | 215 |
| | 1992 | 1216 | 860 | 534 | 63 | 54 | 46 | 163 |
| | 1993 | 308 | 258 | 81 | 19 | 15 | 17 | 126 |
| | 1994 | 346 | 314 | 108 | 30 | 21 | 19 | 136 |
| | 1995 | 593 | 380 | 99 | 26 | 27 | 31 | 197 |
| Total | | | | | | | | |
| Northern Edge | 1975 | 2228 | 2015 | 538 | 285 | 207 | 162 | 823 |
| and Peak | 1977 | 5299 | 5064 | 1826 | 522 | 621 | 531 | 1564 |
| | 1978 | 7910 | 7604 | 632 | 468 | 746 | 818 | 4940 |
| | 1979 | 4666 | 4461 | 1009 | 261 | 233 | 256 | 2702 |
| | 1980 | 2963 | 2052 | 623 | 236 | 227 | 164 | 802 |
| | 1981 | 4417 | 3788 | 2565 | 244 | 221 | 157 | 601 |
| | 1982 | 1068 | 950 | 294 | 94 | 98 | 104 | 360 |
| | 1983 | 746 | 669 | 128 | 56 | 66 | 65 | 354 |
| | 1984 | 1133 | 837 | 227 | 74 | 65 | 65 | 406 |
| | 1985 | 2104 | 1846 | 1287 | 130 | 104 | 92 | 233 |
| | 1986 | 2676 | 2592 | 754 | 510 | 498 | 351 | 479 |
| | 1987 | 1913 | 1613 | 549 | 168 | 178 | 181 | 537 |
| | 1988 | 1760 | 1533 | 635 | 176 | 164 | 141 | 417 |
| | 1989[4] | N/S | N/S | N/S | N/S | N/S | N/S | N/S |
| | 1990[5] | 3097 | 2679 | 1382 | 278 | 204 | 201 | 614 |
| | 1991 | 1539 | 1143 | 353 | 103 | 93 | 102 | 492 |
| | 1992[6] | - | - | - | - | - | - | - |
| | 1993 | 1422 | 1395 | 275 | 141 | 152 | 171 | 656 |
| | 1994 | 1573 | 1485 | 399 | 169 | 137 | 131 | 649 |
| | 1995 | 2317 | 2009 | 1196 | 117 | 83 | 69 | 544 |

Table 9. (continued).

| Area | Year | Total Biomass Per Tow(g) | Harvestable[2] Biomass Per Tow (g) | Meat Weight (g, meat) Per Tow [1] Meat Count Interval[3] 80-40 | 40-35 | 35-30 | 30-25 | <25 |
|---|---|---|---|---|---|---|---|---|
| Total Georges Bank (All Areas) | 1975 | 1471 | 1343 | 236 | 130 | 105 | 96 | 776 |
| | 1977 | 3298 | 3178 | 938 | 289 | 372 | 329 | 1250 |
| | 1978 | 4020 | 3879 | 295 | 220 | 351 | 398 | 2615 |
| | 1979 | 2801 | 2702 | 633 | 169 | 124 | 132 | 1644 |
| | 1980 | 1892 | 1373 | 412 | 139 | 128 | 94 | 600 |
| | 1981 | 1841 | 1625 | 919 | 103 | 92 | 66 | 445 |
| | 1982 | 964 | 743 | 243 | 59 | 57 | 59 | 325 |
| | 1983 | 688 | 627 | 168 | 51 | 53 | 52 | 303 |
| | 1984 | 725 | 569 | 142 | 48 | 41 | 42 | 296 |
| | 1985 | 1358 | 1193 | 694 | 85 | 86 | 87 | 241 |
| | 1986 | 1961 | 1678 | 477 | 301 | 294 | 209 | 397 |
| | 1987 | 1348 | 1136 | 388 | 129 | 123 | 114 | 382 |
| | 1988 | 1096 | 958 | 381 | 102 | 97 | 86 | 292 |
| | 1989[6] | - | - | - | - | - | - | - |
| | 1990[5] | 1848 | 1467 | 732 | 153 | 118 | 112 | 352 |
| | 1991 | 1294 | 830 | 308 | 68 | 59 | 60 | 335 |
| | 1992[6] | - | - | - | - | - | - | - |
| | 1993 | 867 | 815 | 182 | 76 | 80 | 90 | 387 |
| | 1994 | 977 | 915 | 275 | 103 | 81 | 75 | 381 |
| | 1995 | 1473 | 1212 | 649 | 74 | 57 | 52 | 379 |

[1] Meat weight values derived from shell height values using 1978-1982 USA research survey equation, ln Meat Weight (g) = -11.7656 + 3.1693 ln Shell Height (mm) (n = 5863, r = 0.98).

[2] Stratified mean weight (g, meat) per tow for sea scallops ≥70 mm, ≤80 count.

[3] Meat count is expressed as number of meats per pound.

[4] Not sampled.

[5] Stratum 72 not sampled.

[6] Not calculated due to incomplete survey coverage.

Table 10. Percentage distribution of harvestable biomass (meat weight) of sea scallops on Georges Bank, within various meat count intervals. Harvestable biomass is defined as all sea scallops ≥70 mm shell height. Data derived from distribution of standardized stratified mean meat weight per tow in NEFSC sea scallop research vessel surveys on Georges Bank, 1975, 1977-1995.

| | | Percent of Harvestable Biomass By Meat Count Interval[1] | | | | | |
|---|---|---|---|---|---|---|---|
| Area | Year | 80 - 40 | 40 - 35 | 35 - 30 | 30 - 25 | <30 | <25 |
| South Channel | 1975 | 4.8 | 3.2 | 4.2 | 5.2 | 87.8 | 82.6 |
| | 1977 | 8.0 | 5.3 | 11.3 | 11.4 | 75.4 | 64.0 |
| | 1978 | 4.5 | 3.9 | 6.4 | 10.3 | 85.2 | 74.9 |
| | 1979 | 31.1 | 9.2 | 2.9 | 2.5 | 56.8 | 54.3 |
| | 1980 | 23.1 | 2.7 | 2.3 | 3.8 | 71.9 | 68.1 |
| | 1981 | 25.3 | 6.0 | 4.8 | 4.1 | 63.9 | 59.8 |
| | 1982 | 44.1 | 5.0 | 3.3 | 3.2 | 47.6 | 44.4 |
| | 1983 | 40.4 | 8.7 | 7.2 | 6.9 | 43.7 | 36.8 |
| | 1984 | 16.5 | 5.5 | 6.1 | 7.2 | 71.9 | 64.7 |
| | 1985 | 22.7 | 7.4 | 13.2 | 15.3 | 56.7 | 41.4 |
| | 1986 | 26.5 | 7.3 | 7.2 | 6.6 | 59.0 | 52.4 |
| | 1987 | 38.8 | 10.7 | 9.5 | 8.2 | 41.0 | 32.8 |
| | 1988 | 41.0 | 8.2 | 7.8 | 7.3 | 43.0 | 35.7 |
| | 1989 | 21.2 | 5.2 | 6.0 | 6.3 | 67.6 | 61.3 |
| | 1990 | 43.0 | 11.2 | 10.8 | 8.7 | 35.0 | 26.3 |
| | 1991 | 53.1 | 6.9 | 4.9 | 4.1 | 35.1 | 31.0 |
| | 1992 | 78.5 | 4.9 | 4.2 | 2.9 | 12.4 | 9.5 |
| | 1993 | 48.7 | 5.8 | 4.7 | 4.5 | 40.8 | 36.3 |
| | 1994 | 54.1 | 13.1 | 7.8 | 5.9 | 25.0 | 19.1 |
| | 1995 | 31.3 | 7.1 | 7.8 | 9.4 | 53.8 | 44.5 |
| Southeast Part | 1975 | 1.6 | 1.9 | 3.5 | 6.7 | 93.0 | 86.3 |
| | 1977 | 8.3 | 4.4 | 4.3 | 3.6 | 83.0 | 79.4 |
| | 1978 | 2.0 | 1.2 | 1.6 | 1.5 | 95.2 | 93.7 |
| | 1979 | 4.8 | 0.8 | 1.9 | 1.9 | 92.5 | 90.6 |
| | 1980 | 34.6 | 7.3 | 3.5 | 1.7 | 54.6 | 52.9 |
| | 1981 | 11.9 | 6.6 | 5.5 | 3.4 | 76.0 | 72.6 |
| | 1982 | 2.8 | 2.9 | 3.5 | 2.3 | 90.8 | 88.5 |
| | 1983 | 5.5 | 1.6 | 5.0 | 7.8 | 87.9 | 80.1 |
| | 1984 | 27.8 | 12.2 | 5.3 | 4.2 | 54.7 | 50.5 |
| | 1985 | 20.9 | 6.7 | 6.4 | 8.7 | 66.0 | 57.3 |
| | 1986 | 19.2 | 4.7 | 4.4 | 3.3 | 71.7 | 68.4 |
| | 1987 | 25.3 | 19.3 | 12.0 | 5.8 | 43.4 | 37.6 |
| | 1988 | 14.5 | 7.0 | 8.9 | 11.0 | 69.7 | 58.6 |
| | 1989 | 10.6 | 7.3 | 8.2 | 11.1 | 73.9 | 62.8 |
| | 1990 | 27.8 | 6.4 | 7.3 | 3.7 | 58.5 | 54.8 |
| | 1991 | 31.1 | 4.3 | 3.7 | 2.5 | 60.9 | 58.4 |
| | 1992 | 19.2 | 11.1 | 11.4 | 14.4 | 58.3 | 43.9 |
| | 1993 | 6.6 | 3.1 | 4.2 | 6.5 | 86.1 | 79.6 |
| | 1994 | 3.6 | 3.3 | 5.7 | 5.0 | 87.4 | 82.4 |
| | 1995 | 18.0 | 9.0 | 5.8 | 2.5 | 67.2 | 64.8 |

Table 10. (continued).

| Area | Year | Percent of Harvestable Biomass By Meat Count Interval[1] 80 - 40 | 40 - 35 | 35 - 30 | 30 - 25 | <30 | <25 |
|---|---|---|---|---|---|---|---|
| USA | 1985 | 31.7 | 7.6 | 6.7 | 4.4 | 54.0 | 49.6 |
| Northern Edge | 1986 | 21.3 | 8.0 | 8.9 | 6.9 | 61.8 | 54.9 |
| and Peak | 1987 | 38.9 | 7.9 | 8.5 | 8.5 | 44.7 | 36.2 |
| | 1988 | 39.1 | 13.4 | 9.6 | 8.5 | 37.9 | 29.4 |
| | 1989[2] | N/S | N/S | N/S | N/S | N/S | N/S |
| | 1990[3] | 79.5 | 8.7 | 3.2 | 2.2 | 8.6 | 6.4 |
| | 1991 | 40.6 | 10.9 | 8.4 | 8.9 | 40.1 | 31.2 |
| | 1992 | 35.4 | 12.0 | 9.9 | 8.4 | 42.7 | 34.3 |
| | 1993 | 24.2 | 11.2 | 7.8 | 8.8 | 56.8 | 48.0 |
| | 1994 | 12.1 | 5.9 | 5.3 | 6.2 | 76.7 | 70.5 |
| | 1995 | 18.8 | 4.8 | 6.4 | 8.8 | 70.0 | 61.6 |
| USA | 1985 | 25.2 | 7.4 | 10.6 | 11.5 | 56.8 | 45.3 |
| Georges Bank | 1986 | 22.6 | 7.0 | 7.3 | 6.0 | 63.1 | 57.1 |
| (All Areas) | 1987 | 36.3 | 11.2 | 9.6 | 7.8 | 42.9 | 35.1 |
| | 1988 | 36.5 | 10.8 | 8.9 | 8.4 | 43.8 | 35.4 |
| | 1989[4] | - | - | - | - | - | - |
| | 1990[3] | 66.7 | 9.4 | 5.6 | 4.2 | 18.3 | 14.1 |
| | 1991 | 45.5 | 8.6 | 6.5 | 6.3 | 39.4 | 33.1 |
| | 1992 | 62.1 | 7.3 | 6.3 | 5.4 | 24.3 | 18.9 |
| | 1993 | 31.6 | 7.2 | 5.7 | 6.5 | 55.5 | 49.0 |
| | 1994 | 34.5 | 9.5 | 6.8 | 5.8 | 49.2 | 43.4 |
| | 1995 | 26.0 | 6.8 | 7.1 | 8.1 | 60.0 | 51.9 |
| Total | | | | | | | |
| Northern Edge | 1975 | 26.7 | 14.1 | 10.3 | 8.1 | 48.9 | 40.8 |
| and Peak | 1977 | 36.1 | 10.3 | 12.2 | 10.5 | 41.4 | 30.9 |
| | 1978 | 8.3 | 6.2 | 9.8 | 10.7 | 75.7 | 65.0 |
| | 1979 | 22.6 | 5.9 | 5.2 | 5.7 | 66.3 | 60.6 |
| | 1980 | 30.3 | 11.5 | 11.1 | 8.0 | 47.1 | 39.1 |
| | 1981 | 67.7 | 6.4 | 5.9 | 4.1 | 20.0 | 15.9 |
| | 1982 | 30.9 | 9.9 | 10.3 | 10.9 | 48.9 | 38.0 |
| | 1983 | 19.1 | 8.4 | 9.8 | 9.7 | 62.7 | 53.0 |
| | 1984 | 27.1 | 8.9 | 7.7 | 7.8 | 56.3 | 48.5 |
| | 1985 | 69.7 | 7.1 | 5.6 | 5.0 | 17.6 | 12.6 |
| | 1986 | 29.1 | 19.7 | 19.2 | 13.5 | 32.0 | 18.5 |
| | 1987 | 34.0 | 10.5 | 11.0 | 11.2 | 44.7 | 33.3 |
| | 1988 | 41.4 | 11.5 | 10.7 | 9.2 | 36.4 | 27.2 |
| | 1989[4] | - | - | - | - | - | - |
| | 1990[3] | 51.6 | 10.4 | 7.6 | 7.5 | 30.4 | 22.9 |
| | 1991 | 30.8 | 9.0 | 8.2 | 8.9 | 52.0 | 43.1 |
| | 1992[4] | - | - | - | - | - | - |
| | 1993 | 19.7 | 10.1 | 10.9 | 12.3 | 59.3 | 47.0 |
| | 1994 | 26.8 | 11.4 | 9.3 | 8.8 | 52.5 | 43.7 |
| | 1995 | 59.6 | 5.8 | 4.1 | 3.4 | 30.5 | 27.1 |

Table 10. (continued).

| Area | Year | Percent of Harvestable Biomass By Meat Count Interval[1] 80 - 40 | 40 - 35 | 35 - 30 | 30 - 25 | <30 | <25 |
|---|---|---|---|---|---|---|---|
| Total Georges Bank (All Areas) | 1975 | 17.6 | 9.6 | 7.8 | 7.2 | 65.0 | 57.8 |
| | 1977 | 29.5 | 9.1 | 11.7 | 10.4 | 49.7 | 39.3 |
| | 1978 | 7.6 | 5.7 | 9.0 | 10.3 | 77.7 | 67.4 |
| | 1979 | 23.4 | 6.3 | 4.6 | 4.9 | 65.7 | 60.8 |
| | 1980 | 30.0 | 10.1 | 9.3 | 6.9 | 50.6 | 43.7 |
| | 1981 | 56.5 | 6.4 | 5.6 | 4.1 | 31.5 | 27.4 |
| | 1982 | 32.7 | 7.9 | 7.7 | 7.9 | 51.7 | 43.8 |
| | 1983 | 26.8 | 8.1 | 8.4 | 8.4 | 56.7 | 48.3 |
| | 1984 | 24.9 | 8.4 | 7.2 | 7.5 | 59.5 | 52.0 |
| | 1985 | 58.1 | 7.1 | 7.3 | 7.3 | 27.5 | 20.2 |
| | 1986 | 28.4 | 18.0 | 17.5 | 12.5 | 36.1 | 23.6 |
| | 1987 | 34.2 | 11.3 | 10.8 | 10.1 | 43.7 | 33.6 |
| | 1988 | 39.7 | 10.7 | 10.1 | 9.0 | 39.5 | 30.5 |
| | 1989[4] | - | - | - | - | - | - |
| | 1990[3] | 49.9 | 10.4 | 8.1 | 7.6 | 31.6 | 24.0 |
| | 1991 | 37.1 | 8.2 | 7.0 | 7.3 | 47.7 | 40.4 |
| | 1992[4] | - | - | - | - | - | - |
| | 1993 | 22.3 | 9.3 | 9.9 | 11.1 | 58.5 | 47.4 |
| | 1994 | 30.0 | 11.3 | 8.8 | 8.2 | 49.9 | 41.7 |
| | 1995 | 53.6 | 6.1 | 4.7 | 4.3 | 35.6 | 31.3 |

1 Meat count is expressed as number of meats per pound.
[2] Not sampled.
[3] Stratum 72 excluded from analyses, not sampled.
[4] Not calculated due to incomplete survey coverage.

Table 11. Distribution of standardized mean number per tow among various meat count intervals for sea scallops from NEFSC sea scallop research vessel surveys on Georges Bank, 1975, 1977-1995.

| Area | Year | Total Number Per Tow | Harvestable Number Per Tow | Meat Count Interval[1] 80-40 | 40-35 | 35-30 | 30-25 | <25 |
|---|---|---|---|---|---|---|---|---|
| | | Stratified Mean Number of Scallops Per Tow | | | | | | |
| South Channel | 1975 | 75.0 | 29.9 | 4.6 | 2.0 | 2.2 | 2.3 | 18.8 |
| | 1977 | 95.4 | 89.1 | 18.6 | 7.9 | 14.2 | 12.2 | 36.2 |
| | 1978 | 57.4 | 49.7 | 5.4 | 3.5 | 4.8 | 6.5 | 29.5 |
| | 1979 | 95.0 | 88.2 | 47.9 | 10.8 | 2.9 | 2.1 | 24.5 |
| | 1980 | 109.9 | 30.2 | 15.9 | 1.1 | 0.8 | 1.2 | 11.2 |
| | 1981 | 52.0 | 36.5 | 19.0 | 3.0 | 2.1 | 1.5 | 10.9 |
| | 1982 | 266.8 | 53.0 | 39.7 | 2.6 | 1.4 | 1.2 | 8.1 |
| | 1983 | 74.8 | 55.8 | 36.3 | 5.2 | 3.6 | 2.9 | 7.8 |
| | 1984 | 31.3 | 17.7 | 6.9 | 1.5 | 1.4 | 1.5 | 6.4 |
| | 1985 | 87.6 | 47.3 | 21.1 | 4.3 | 6.5 | 6.5 | 8.9 |
| | 1986 | 152.3 | 37.0 | 19.9 | 3.3 | 2.7 | 2.1 | 9.0 |
| | 1987 | 140.7 | 56.1 | 35.0 | 5.9 | 4.5 | 3.3 | 7.4 |
| | 1988 | 68.5 | 36.0 | 23.9 | 2.9 | 2.3 | 1.8 | 5.1 |
| | 1989 | 36.8 | 15.1 | 7.1 | 1.1 | 1.1 | 0.9 | 4.9 |
| | 1990 | 308.7 | 49.9 | 32.3 | 5.2 | 4.2 | 2.9 | 5.3 |
| | 1991 | 496.3 | 64.2 | 50.5 | 3.7 | 2.2 | 1.6 | 6.2 |
| | 1992 | 394.6 | 171.8 | 156.4 | 5.2 | 3.8 | 2.2 | 4.2 |
| | 1993 | 55.1 | 24.5 | 18.3 | 1.2 | 0.9 | 0.7 | 3.4 |
| | 1994 | 56.3 | 37.6 | 26.9 | 4.4 | 2.2 | 1.5 | 2.6 |
| | 1995 | 161.9 | 41.2 | 23.4 | 3.0 | 2.8 | 2.9 | 9.1 |
| Southeast Part | 1975 | 40.2 | 38.4 | 1.9 | 1.5 | 2.3 | 3.8 | 28.9 |
| | 1977 | 30.4 | 27.2 | 6.2 | 2.3 | 1.9 | 1.3 | 15.5 |
| | 1978 | 29.3 | 27.1 | 2.0 | 0.8 | 1.0 | 0.8 | 22.5 |
| | 1979 | 28.9 | 21.2 | 4.0 | 0.4 | 0.9 | 0.7 | 15.2 |
| | 1980 | 63.2 | 41.7 | 25.8 | 4.0 | 1.6 | 0.7 | 9.6 |
| | 1981 | 20.8 | 19.4 | 5.8 | 2.3 | 1.6 | 0.9 | 8.8 |
| | 1982 | 10.6 | 9.8 | 0.9 | 0.7 | 0.7 | 0.4 | 7.1 |
| | 1983 | 20.5 | 9.2 | 1.6 | 0.3 | 0.8 | 1.1 | 5.4 |
| | 1984 | 17.5 | 12.9 | 6.4 | 2.2 | 0.8 | 0.5 | 3.0 |
| | 1985 | 20.9 | 11.8 | 5.3 | 1.1 | 0.9 | 1.1 | 3.4 |
| | 1986 | 49.5 | 20.6 | 9.2 | 1.5 | 1.2 | 0.7 | 8.0 |
| | 1987 | 62.7 | 39.6 | 16.7 | 9.0 | 4.7 | 1.9 | 7.3 |
| | 1988 | 17.5 | 16.1 | 5.2 | 1.7 | 1.8 | 2.0 | 5.4 |
| | 1989 | 35.4 | 11.8 | 3.0 | 1.3 | 1.2 | 1.4 | 4.9 |
| | 1990 | 10.0 | 8.4 | 4.5 | 0.7 | 0.7 | 0.3 | 2.2 |
| | 1991 | 32.6 | 14.1 | 9.0 | 0.7 | 0.5 | 0.3 | 3.6 |
| | 1992 | 30.8 | 20.5 | 7.6 | 2.9 | 2.5 | 2.7 | 4.8 |
| | 1993 | 11.8 | 9.5 | 1.8 | 0.5 | 0.6 | 0.8 | 5.8 |
| | 1994 | 28.5 | 8.9 | 1.0 | 0.6 | 0.9 | 0.7 | 5.7 |
| | 1995 | 27.1 | 13.5 | 5.3 | 1.9 | 1.1 | 0.4 | 4.8 |

Table 11. (continued).

| Area | Year | Total Number Per Tow | Harvestable Number Per Tow | Meat Count Interval[1] 80-40 | 40-35 | 35-30 | 30-25 | <25 |
|---|---|---|---|---|---|---|---|---|
| | | Stratified Mean Number of Scallops Per Tow | | | | | | |
| USA Northern Edge and Peak | 1985 | 48.4 | 26.6 | 16.2 | 2.3 | 1.7 | 0.9 | 5.5 |
| | 1986 | 74.2 | 28.6 | 13.0 | 2.9 | 2.8 | 1.8 | 8.1 |
| | 1987 | 116.6 | 54.6 | 34.3 | 4.5 | 4.1 | 3.4 | 8.3 |
| | 1988 | 126.7 | 60.9 | 31.3 | 6.7 | 4.1 | 3.1 | 6.5 |
| | 1989[2] | N/S | N/S | N/S | N/S | N/S | N/S | N/S |
| | 1990[3] | 263.7 | 196.8 | 174.4 | 12.3 | 3.8 | 2.2 | 4.1 |
| | 1991 | 185.6 | 66.9 | 42.4 | 7.1 | 4.6 | 4.2 | 8.6 |
| | 1992 | 71.1 | 45.0 | 25.7 | 5.6 | 3.9 | 2.8 | 7.0 |
| | 1993 | 18.3 | 15.6 | 6.8 | 2.2 | 1.3 | 1.2 | 4.1 |
| | 1994 | 25.3 | 10.4 | 3.0 | 1.0 | 0.7 | 0.7 | 5.0 |
| | 1995 | 95.9 | 14.3 | 5.9 | 1.0 | 1.0 | 1.2 | 5.3 |
| USA Georges Bank (All Areas) | 1985 | 58.3 | 31.8 | 15.8 | 2.9 | 3.5 | 3.2 | 6.4 |
| | 1986 | 90.2 | 28.9 | 14.0 | 2.7 | 2.3 | 1.6 | 8.3 |
| | 1987 | 114.5 | 51.9 | 30.7 | 6.1 | 4.4 | 3.0 | 7.7 |
| | 1988 | 78.8 | 40.8 | 24.5 | 4.5 | 3.2 | 2.5 | 6.1 |
| | 1989[4] | - | - | - | - | - | - | - |
| | 1990[3] | 233.0 | 87.8 | 71.9 | 6.4 | 3.2 | 2.1 | 4.2 |
| | 1991 | 278.2 | 54.1 | 38.3 | 4.3 | 2.7 | 2.3 | 6.5 |
| | 1992 | 193.9 | 91.2 | 74.9 | 4.8 | 3.6 | 2.5 | 5.4 |
| | 1993 | 31.8 | 17.8 | 10.4 | 1.4 | 1.0 | 0.9 | 4.1 |
| | 1994 | 38.6 | 21.1 | 12.3 | 2.3 | 1.4 | 1.0 | 4.1 |
| | 1995 | 107.5 | 25.1 | 12.9 | 2.0 | 1.8 | 1.7 | 6.7 |
| Total Northern Edge and Peak | 1975 | 219.7 | 135.9 | 61.9 | 21.9 | 13.4 | 9.0 | 29.7 |
| | 1977 | 450.9 | 384.8 | 220.5 | 40.1 | 40.3 | 29.5 | 54.4 |
| | 1978 | 550.6 | 372.9 | 71.1 | 35.9 | 48.5 | 45.4 | 172.0 |
| | 1979 | 329.9 | 257.9 | 122.4 | 20.0 | 15.1 | 14.2 | 86.2 |
| | 1980 | 809.4 | 143.7 | 75.4 | 18.2 | 14.8 | 9.0 | 26.3 |
| | 1981 | 683.1 | 405.7 | 343.4 | 18.7 | 14.4 | 8.7 | 20.5 |
| | 1982 | 106.2 | 65.3 | 34.1 | 7.3 | 6.3 | 5.7 | 11.9 |
| | 1983 | 85.3 | 37.1 | 14.1 | 4.3 | 4.3 | 3.6 | 10.8 |
| | 1984 | 347.8 | 54.0 | 28.3 | 5.7 | 4.2 | 3.6 | 12.2 |
| | 1985 | 276.7 | 192.2 | 162.8 | 10.0 | 6.8 | 5.1 | 7.5 |
| | 1986 | 368.6 | 195.6 | 86.5 | 39.2 | 32.4 | 19.5 | 18.0 |
| | 1987 | 272.4 | 122.2 | 67.5 | 13.0 | 11.6 | 10.0 | 20.1 |
| | 1988 | 223.7 | 124.4 | 77.3 | 13.6 | 10.7 | 7.8 | 15.0 |
| | 1989[4] | - | - | - | - | - | - | - |
| | 1990[3] | 459.8 | 236.0 | 166.1 | 21.3 | 13.3 | 11.2 | 24.1 |
| | 1991 | 231.1 | 78.9 | 43.5 | 7.9 | 6.1 | 5.7 | 15.7 |
| | 1992[4] | - | - | - | - | - | - | - |
| | 1993 | 94.8 | 85.7 | 31.0 | 10.9 | 9.9 | 9.5 | 24.4 |
| | 1994 | 148.4 | 97.0 | 44.7 | 13.0 | 8.9 | 7.3 | 23.1 |
| | 1995 | 299.7 | 178.5 | 141.6 | 9.1 | 5.4 | 3.8 | 18.8 |

Table 11. (continued).

| Area | Year | Stratified Mean Number of Scallops Per Tow: Total Number Per Tow | Harvestable Number Per Tow | Meat Count Interval[1]: 80-40 | 40-35 | 35-30 | 30-25 | <25 |
|---|---|---|---|---|---|---|---|---|
| Total Georges Bank (All Areas) | 1975 | 126.3 | 74.6 | 27.2 | 10.0 | 6.8 | 5.3 | 25.3 |
| | 1977 | 252.6 | 218.3 | 113.0 | 22.2 | 24.2 | 18.2 | 40.7 |
| | 1978 | 263.7 | 184.0 | 32.9 | 16.9 | 22.8 | 22.1 | 89.3 |
| | 1979 | 188.9 | 152.3 | 73.2 | 13.0 | 8.1 | 7.3 | 50.7 |
| | 1980 | 469.7 | 92.3 | 49.2 | 10.7 | 8.4 | 5.2 | 18.8 |
| | 1981 | 249.6 | 152.4 | 121.3 | 7.9 | 6.0 | 3.7 | 13.5 |
| | 1982 | 142.2 | 51.2 | 29.9 | 4.5 | 3.7 | 3.3 | 9.8 |
| | 1983 | 70.1 | 38.2 | 19.1 | 3.9 | 3.4 | 2.9 | 8.9 |
| | 1984 | 183.3 | 34.6 | 17.3 | 3.7 | 2.7 | 2.3 | 8.6 |
| | 1985 | 167.9 | 111.6 | 87.4 | 6.5 | 5.6 | 4.8 | 7.3 |
| | 1986 | 252.9 | 123.0 | 55.3 | 23.2 | 19.1 | 11.6 | 13.8 |
| | 1987 | 190.9 | 85.4 | 47.6 | 9.9 | 8.0 | 6.3 | 13.6 |
| | 1988 | 135.1 | 75.6 | 46.6 | 7.9 | 6.3 | 4.8 | 10.0 |
| | 1989[4] | - | - | - | - | - | - | - |
| | 1990[3] | 320.9 | 127.3 | 88.3 | 11.8 | 7.7 | 6.2 | 13.3 |
| | 1991 | 283.1 | 62.3 | 39.6 | 5.2 | 3.8 | 3.3 | 10.4 |
| | 1992[4] | - | - | - | - | - | - | - |
| | 1993 | 66.6 | 51.6 | 21.5 | 5.8 | 5.2 | 5.0 | 14.1 |
| | 1994 | 96.2 | 61.4 | 30.9 | 7.9 | 5.2 | 4.2 | 13.2 |
| | 1995 | 204.5 | 103.0 | 77.6 | 5.8 | 3.7 | 2.9 | 13.0 |

[1] Meat count is expressed as number of meats per pound.
[2] Not sampled.
[3] Stratum 72 excluded from analyses, not sampled.
[4] Not calculated due to incomplete survey coverage.

Table 12. Percentage distribution of harvestable number of sea scallops on Georges Bank, within various meat count intervals. Harvestable scallops are defined as all sea scallops ≥70 mm shell height. Data derived from distribution of standardized stratified mean number per tow of scallops in NEFSC sea scallop research vessel surveys on Georges Bank, 1975, 1977-1995.

| | | Percent of Harvestable Scallops By Meat Count Interval[1] | | | | | |
|---|---|---|---|---|---|---|---|
| Area | Year | 80 - 40 | 40 - 35 | 35 - 30 | 30 - 25 | <30 | <25 |
| South Channel | 1975 | 15.3 | 6.6 | 7.5 | 7.9 | 70.6 | 62.7 |
| | 1977 | 20.9 | 8.8 | 15.9 | 13.7 | 54.4 | 40.7 |
| | 1978 | 10.8 | 6.9 | 9.7 | 13.2 | 72.6 | 59.4 |
| | 1979 | 54.3 | 12.3 | 3.3 | 2.4 | 30.1 | 27.7 |
| | 1980 | 52.6 | 3.8 | 2.7 | 3.9 | 40.9 | 37.0 |
| | 1981 | 52.2 | 8.2 | 5.6 | 4.1 | 34.0 | 29.9 |
| | 1982 | 74.9 | 4.9 | 2.7 | 2.2 | 17.5 | 15.3 |
| | 1983 | 65.0 | 9.3 | 6.4 | 5.3 | 19.3 | 14.0 |
| | 1984 | 39.1 | 8.6 | 8.1 | 8.1 | 44.2 | 36.1 |
| | 1985 | 44.5 | 9.1 | 13.8 | 13.7 | 32.6 | 18.9 |
| | 1986 | 53.9 | 8.8 | 7.2 | 5.7 | 30.1 | 24.4 |
| | 1987 | 62.3 | 10.6 | 8.0 | 5.8 | 19.1 | 13.3 |
| | 1988 | 66.2 | 8.0 | 6.5 | 5.2 | 19.3 | 14.1 |
| | 1989 | 47.1 | 7.1 | 7.1 | 6.2 | 38.7 | 32.5 |
| | 1990 | 64.7 | 10.4 | 8.5 | 5.8 | 16.4 | 10.6 |
| | 1991 | 78.6 | 5.8 | 3.5 | 2.5 | 12.1 | 9.6 |
| | 1992 | 91.0 | 3.0 | 2.2 | 1.3 | 3.7 | 2.4 |
| | 1993 | 74.6 | 5.1 | 3.5 | 2.9 | 16.8 | 13.9 |
| | 1994 | 71.5 | 11.8 | 5.9 | 3.8 | 10.8 | 7.0 |
| | 1995 | 56.8 | 7.3 | 6.8 | 7.0 | 29.0 | 22.1 |
| Southeast Part | 1975 | 4.8 | 3.9 | 6.1 | 9.8 | 85.2 | 75.4 |
| | 1977 | 22.7 | 8.4 | 6.9 | 5.0 | 62.0 | 57.0 |
| | 1978 | 7.4 | 3.0 | 3.6 | 2.8 | 86.0 | 83.2 |
| | 1979 | 18.7 | 2.1 | 4.2 | 3.5 | 75.0 | 71.5 |
| | 1980 | 62.1 | 9.5 | 3.9 | 1.6 | 24.5 | 22.9 |
| | 1981 | 29.7 | 12.0 | 8.4 | 4.5 | 49.9 | 45.4 |
| | 1982 | 8.9 | 7.2 | 7.3 | 4.1 | 76.6 | 72.5 |
| | 1983 | 17.0 | 3.3 | 8.8 | 11.6 | 70.9 | 59.3 |
| | 1984 | 49.8 | 16.6 | 6.2 | 4.1 | 27.4 | 23.3 |
| | 1985 | 45.1 | 9.5 | 7.7 | 8.9 | 37.7 | 28.8 |
| | 1986 | 44.8 | 7.2 | 5.7 | 3.6 | 42.3 | 38.7 |
| | 1987 | 42.2 | 22.6 | 11.9 | 4.9 | 23.3 | 18.4 |
| | 1988 | 32.4 | 10.6 | 11.4 | 12.1 | 45.6 | 33.5 |
| | 1989 | 25.1 | 11.1 | 10.5 | 12.1 | 53.3 | 41.2 |
| | 1990 | 53.0 | 8.6 | 8.2 | 3.6 | 30.2 | 26.6 |
| | 1991 | 63.9 | 5.0 | 3.6 | 2.0 | 27.5 | 25.5 |
| | 1992 | 37.0 | 14.1 | 12.2 | 13.1 | 36.7 | 23.6 |
| | 1993 | 18.9 | 5.7 | 6.6 | 8.7 | 68.8 | 60.1 |
| | 1994 | 11.2 | 7.0 | 10.4 | 7.7 | 71.4 | 63.7 |
| | 1995 | 39.2 | 14.2 | 7.9 | 2.7 | 38.7 | 35.9 |

Table 12. (continued).

| Area | Year | Percent of Harvestable Scallops By Meat Count Interval[1] 80 - 40 | 40 - 35 | 35 - 30 | 30 - 25 | <30 | <25 |
|---|---|---|---|---|---|---|---|
| USA | 1985 | 60.7 | 8.7 | 6.4 | 3.6 | 24.2 | 20.6 |
| Northern Edge | 1986 | 45.3 | 10.3 | 9.7 | 6.4 | 34.7 | 28.3 |
| and Peak | 1987 | 62.8 | 8.2 | 7.4 | 6.3 | 21.6 | 15.3 |
| | 1988 | 60.5 | 13.1 | 7.9 | 6.0 | 18.5 | 12.5 |
| | 1989[2] | N/S | N/S | N/S | N/S | N/S | N/S |
| | 1990[3] | 88.6 | 6.2 | 2.0 | 1.1 | 3.2 | 2.1 |
| | 1991 | 63.4 | 10.6 | 6.9 | 6.3 | 19.1 | 12.8 |
| | 1992 | 57.2 | 12.4 | 8.7 | 6.3 | 21.7 | 15.4 |
| | 1993 | 44.1 | 13.9 | 8.1 | 7.8 | 33.9 | 26.1 |
| | 1994 | 28.6 | 9.5 | 7.2 | 7.1 | 54.7 | 47.6 |
| | 1995 | 41.0 | 6.6 | 7.2 | 8.4 | 45.2 | 36.8 |
| USA | 1985 | 49.6 | 9.0 | 11.0 | 10.2 | 30.4 | 20.2 |
| Georges Bank | 1986 | 48.4 | 9.1 | 8.1 | 5.6 | 34.4 | 28.8 |
| (All Areas) | 1987 | 59.1 | 11.7 | 8.4 | 5.9 | 20.8 | 14.9 |
| | 1988 | 60.1 | 11.0 | 7.7 | 6.2 | 21.2 | 15.0 |
| | 1989[4] | - | - | - | - | - | - |
| | 1990[3] | 81.8 | 7.3 | 3.7 | 2.4 | 7.2 | 4.8 |
| | 1991 | 70.8 | 8.0 | 5.0 | 4.2 | 16.2 | 12.0 |
| | 1992 | 82.1 | 5.3 | 3.9 | 2.8 | 8.7 | 5.9 |
| | 1993 | 58.1 | 8.0 | 5.4 | 5.2 | 28.5 | 23.3 |
| | 1994 | 58.0 | 10.9 | 6.6 | 4.8 | 24.5 | 19.7 |
| | 1995 | 51.3 | 8.0 | 7.0 | 6.8 | 33.7 | 26.8 |
| Total | | | | | | | |
| Northern Edge | 1975 | 45.5 | 16.1 | 9.9 | 6.7 | 28.5 | 21.8 |
| and Peak | 1977 | 57.3 | 10.4 | 10.5 | 7.7 | 21.8 | 14.1 |
| | 1978 | 19.1 | 9.6 | 13.0 | 12.2 | 58.3 | 46.1 |
| | 1979 | 47.4 | 7.8 | 5.9 | 5.5 | 38.9 | 33.4 |
| | 1980 | 52.5 | 12.6 | 10.3 | 6.3 | 24.6 | 18.3 |
| | 1981 | 84.7 | 4.6 | 3.5 | 2.1 | 7.2 | 5.1 |
| | 1982 | 52.1 | 11.1 | 9.7 | 8.8 | 27.1 | 18.3 |
| | 1983 | 37.9 | 11.7 | 11.5 | 9.7 | 38.9 | 29.2 |
| | 1984 | 52.4 | 10.6 | 7.8 | 6.7 | 29.2 | 22.5 |
| | 1985 | 84.7 | 5.2 | 3.5 | 2.7 | 6.6 | 3.9 |
| | 1986 | 44.2 | 20.1 | 16.6 | 9.9 | 19.1 | 9.2 |
| | 1987 | 55.3 | 10.6 | 9.4 | 8.2 | 24.7 | 16.5 |
| | 1988 | 62.2 | 10.9 | 8.5 | 6.3 | 18.4 | 12.1 |
| | 1989[4] | - | - | - | - | - | - |
| | 1990[3] | 70.4 | 9.1 | 5.6 | 4.7 | 14.9 | 10.2 |
| | 1991 | 55.2 | 10.0 | 7.7 | 7.2 | 27.1 | 19.9 |
| | 1992[4] | - | - | - | - | - | - |
| | 1993 | 36.1 | 12.7 | 11.6 | 11.1 | 39.6 | 28.5 |
| | 1994 | 46.1 | 13.4 | 9.2 | 7.5 | 31.3 | 23.8 |
| | 1995 | 79.3 | 5.1 | 3.0 | 2.1 | 12.7 | 10.5 |

Table 12. (continued).

| Area | Year | Percent of Harvestable Scallops By Meat Count Interval[1] 80 - 40 | 40 - 35 | 35 - 30 | 30 - 25 | <30 | <25 |
|---|---|---|---|---|---|---|---|
| Total Georges Bank (All Areas) | 1975 | 36.5 | 13.3 | 9.1 | 7.2 | 41.1 | 33.9 |
| | 1977 | 51.7 | 10.2 | 11.1 | 8.4 | 27.0 | 18.6 |
| | 1978 | 17.9 | 9.2 | 12.4 | 12.0 | 60.5 | 48.5 |
| | 1979 | 48.1 | 8.5 | 5.3 | 4.8 | 38.1 | 33.3 |
| | 1980 | 53.3 | 11.6 | 9.0 | 5.7 | 26.1 | 20.4 |
| | 1981 | 79.6 | 5.2 | 3.9 | 2.4 | 11.3 | 8.9 |
| | 1982 | 58.4 | 8.9 | 7.2 | 6.4 | 25.5 | 19.1 |
| | 1983 | 50.1 | 10.2 | 8.9 | 7.6 | 30.8 | 23.2 |
| | 1984 | 49.9 | 10.7 | 7.8 | 6.8 | 31.6 | 24.8 |
| | 1985 | 78.3 | 5.9 | 5.0 | 4.3 | 10.8 | 6.5 |
| | 1986 | 44.9 | 18.8 | 15.6 | 9.4 | 20.7 | 11.3 |
| | 1987 | 55.7 | 11.6 | 9.4 | 7.4 | 23.3 | 15.9 |
| | 1988 | 61.7 | 10.4 | 8.3 | 6.3 | 19.6 | 13.3 |
| | 1989[4] | - | - | - | - | - | - |
| | 1990[3] | 69.4 | 9.2 | 6.0 | 4.9 | 15.4 | 10.5 |
| | 1991 | 63.5 | 8.4 | 6.1 | 5.4 | 22.0 | 16.6 |
| | 1992[4] | - | - | - | - | - | - |
| | 1993 | 41.6 | 11.3 | 10.1 | 9.7 | 37.0 | 27.3 |
| | 1994 | 50.3 | 12.9 | 8.6 | 6.7 | 28.2 | 21.5 |
| | 1995 | 75.4 | 5.6 | 3.6 | 2.8 | 15.5 | 12.6 |

[1] Meat count is expressed as number of meats per pound.
[2] Not sampled.
[3] Stratum 72 excluded from analyses, not sampled.
[4] Not calculated due to incomplete survey coverage.

Table 13. Percentage distribution of harvestable biomass (meat weight) of sea scallops in the USA Georges Bank and Mid-Atlantic regions, within various meat count intervals. Harvestable biomass is defined as all sea scallops ≥70 mm shell height (≤80 count). Data derived from distribution of standardized stratified mean meat weight per tow in NEFSC 1995 research vessel sea scallop survey.

| | Percent Harvestable Biomass | | | |
|---|---|---|---|---|
| | Meat Count Interval | | | |
| Area | 80-40 | 40-35 | 35-30 | <30 |
| Virginia-No. Carolina | 28.1 | 27.1 | 20.9 | 24.0 |
| Delmarva | 55.7 | 9.7 | 7.8 | 26.7 |
| New York Bight | 66.5 | 9.1 | 7.2 | 17.2 |
| **Mid-Atlantic** | **64.3** | **9.3** | **7.4** | **19.0** |
| South Channel | 56.8 | 7.3 | 6.8 | 29.0 |
| Southeast Part | 39.2 | 14.2 | 7.9 | 38.7 |
| USA No. Edge And Peak | 41.0 | 6.6 | 7.2 | 45.2 |
| **USA Georges Bank** | 26.0 | 6.8 | 7.1 | 60.0 |
| **Total USA Georges Bank and Mid-Atlantic Regions** | **46.3** | **8.1** | **7.3** | **38.3** |

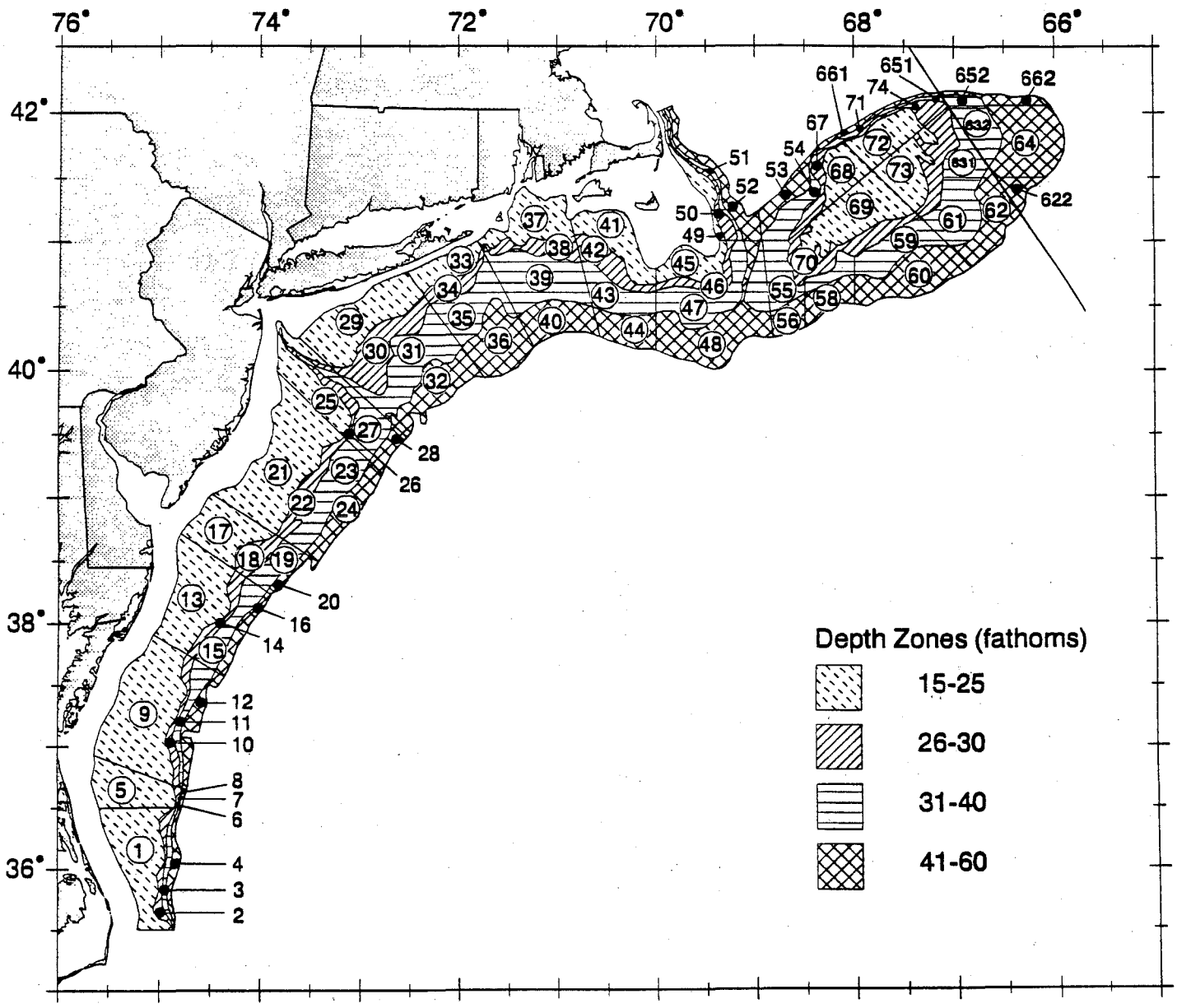



Figure 1. Sampling strata used in the NEFSC sea scallop survey since 1979.

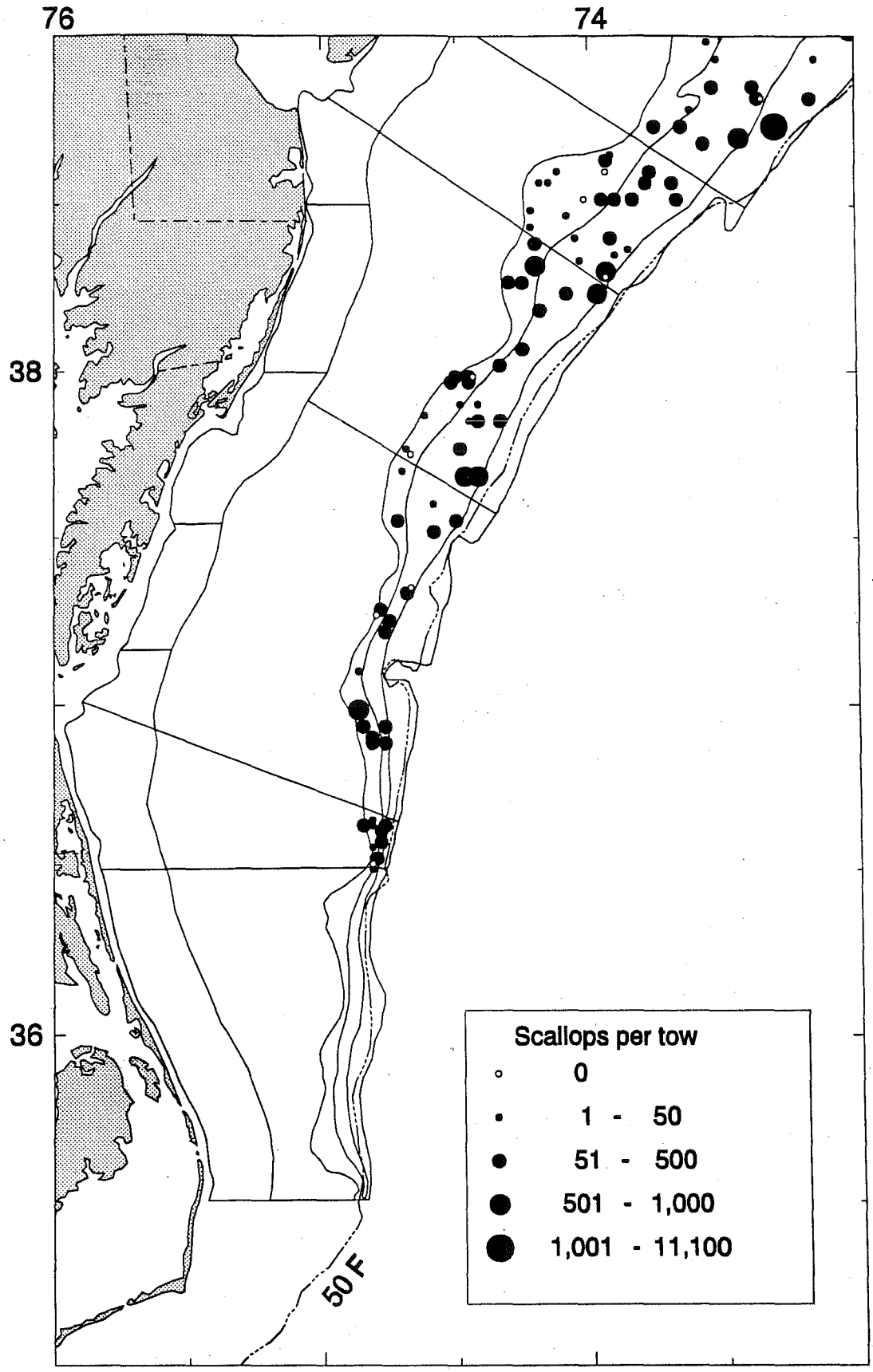



Figure 2. Distribution of sea scallops (number per tow) observed in the NEFSC sea scallop research vessel survey in the Virginia-North Carolina and Delmarva areas of the Mid-Atlantic region, 1995.

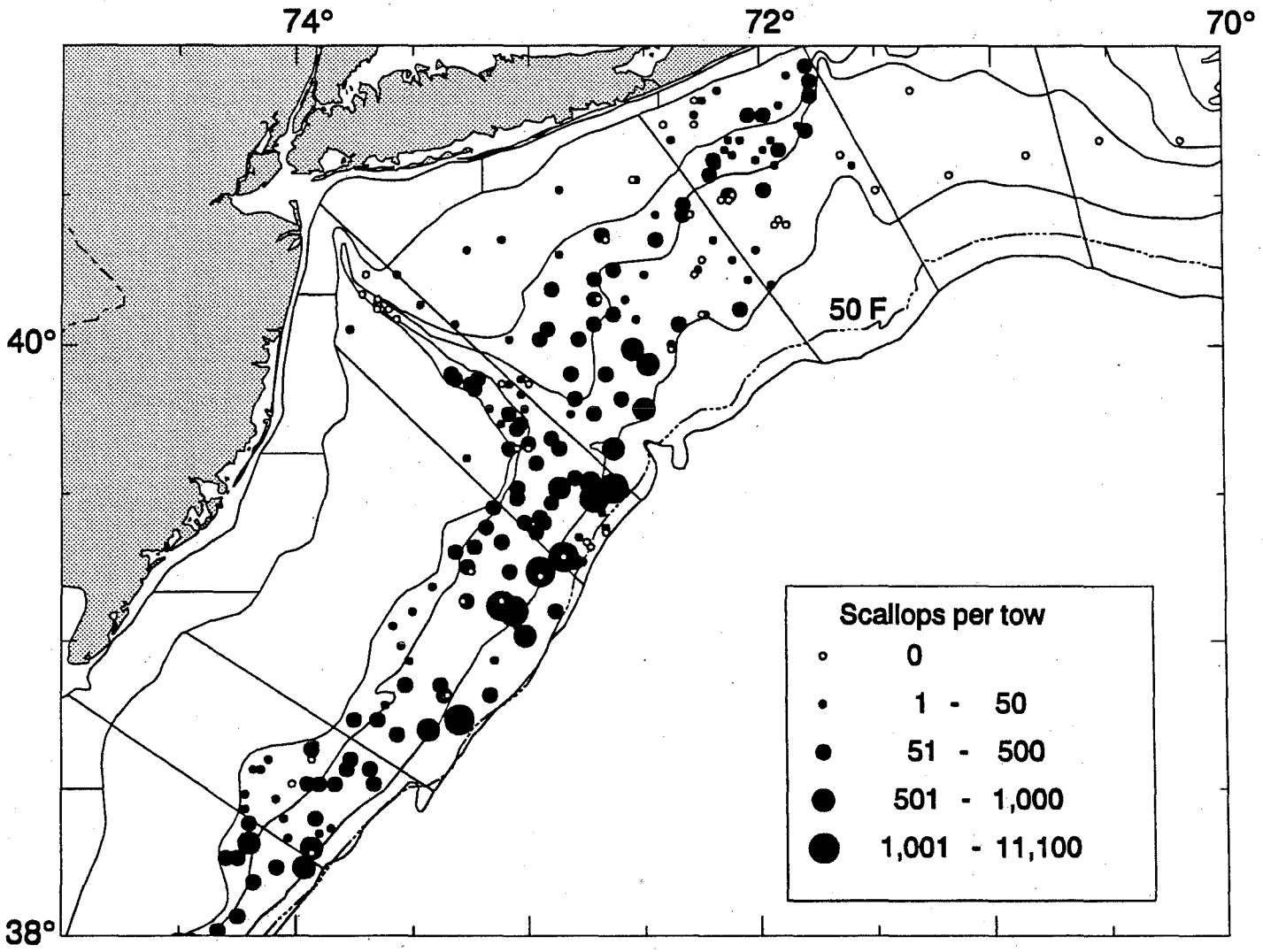



Figure 3. Distribution of sea scallops (number per tow) observed in the NEFSC sea scallop research vessel survey in the New York Bight area of the Mid-Atlantic region, 1995.

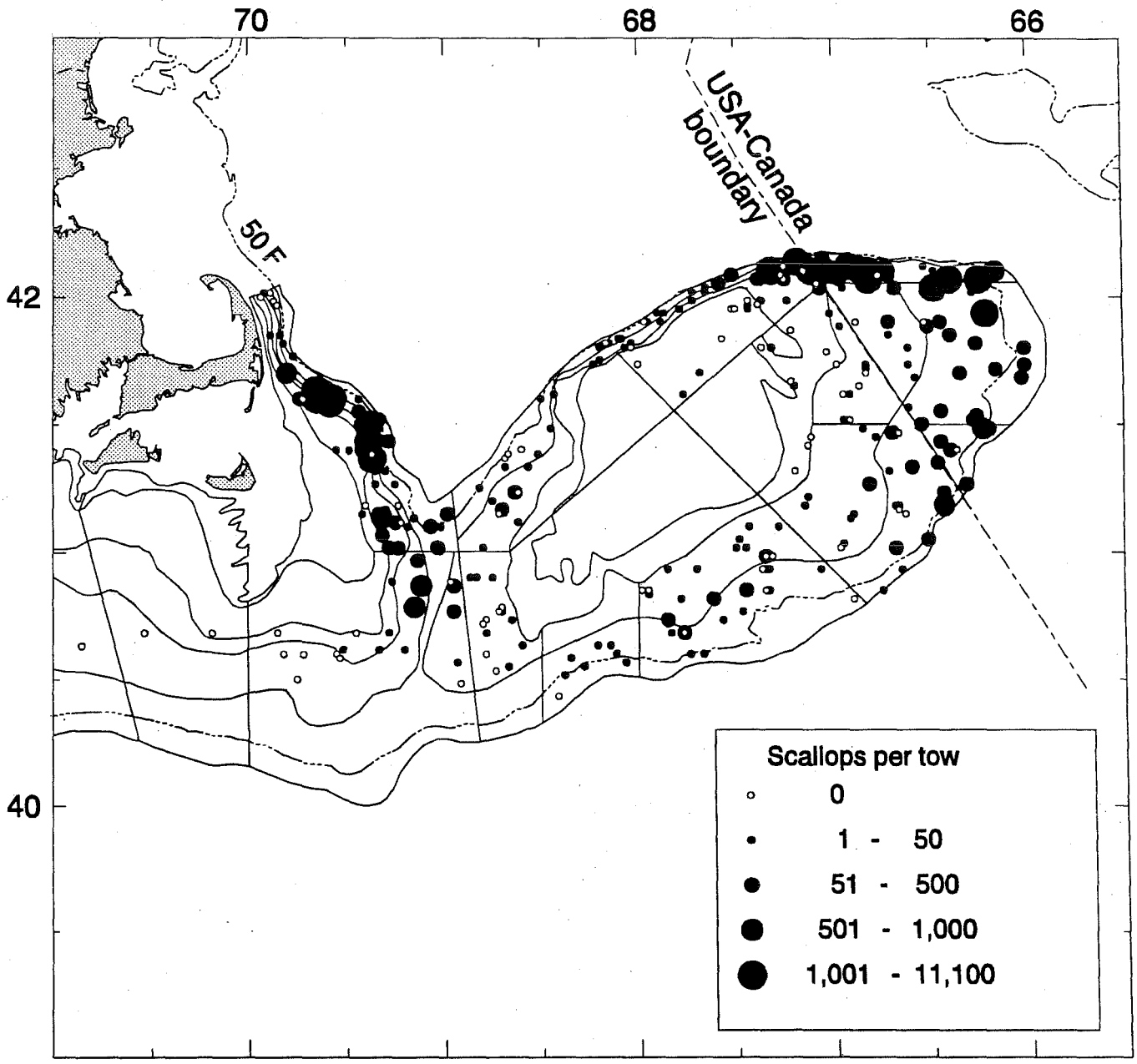
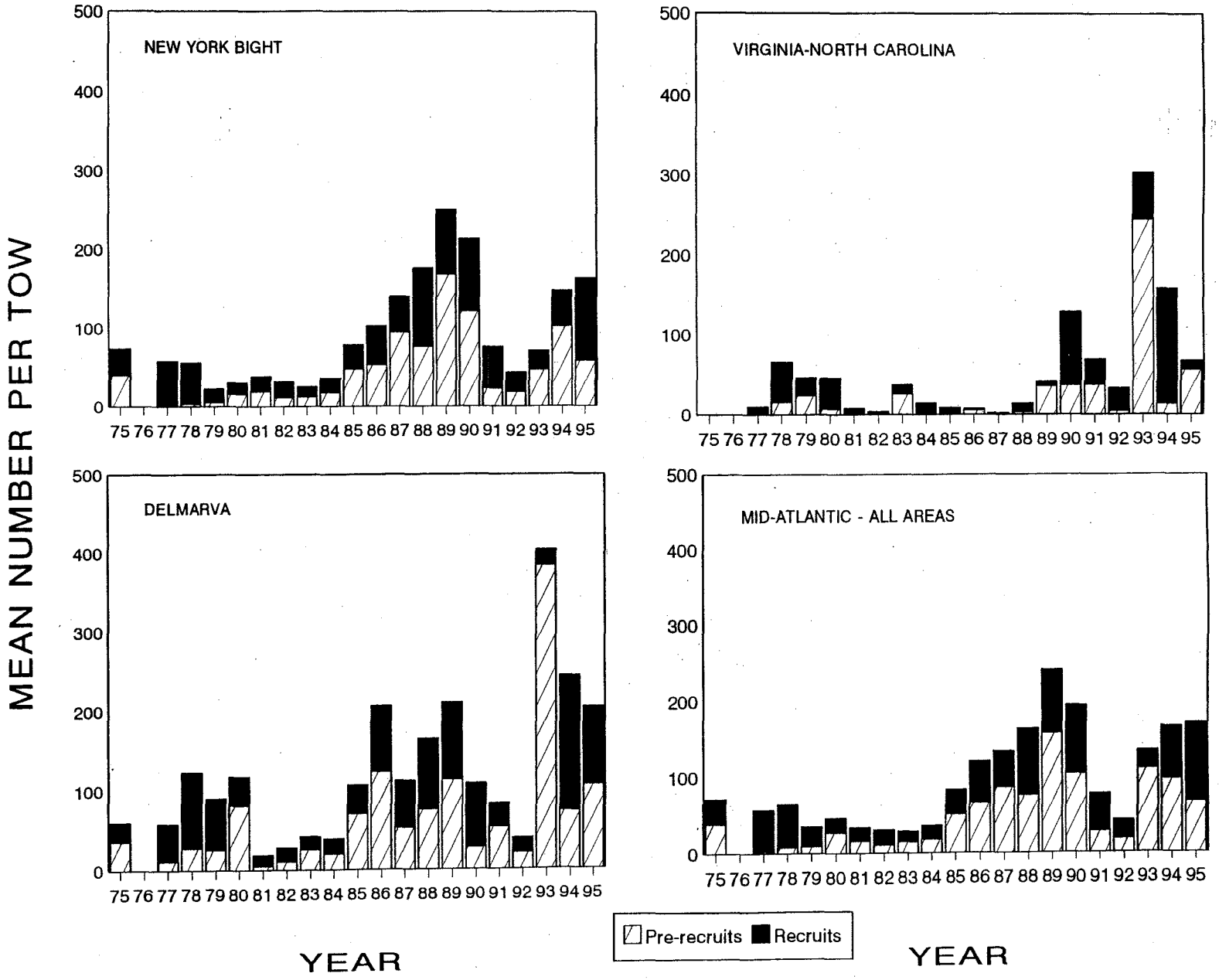
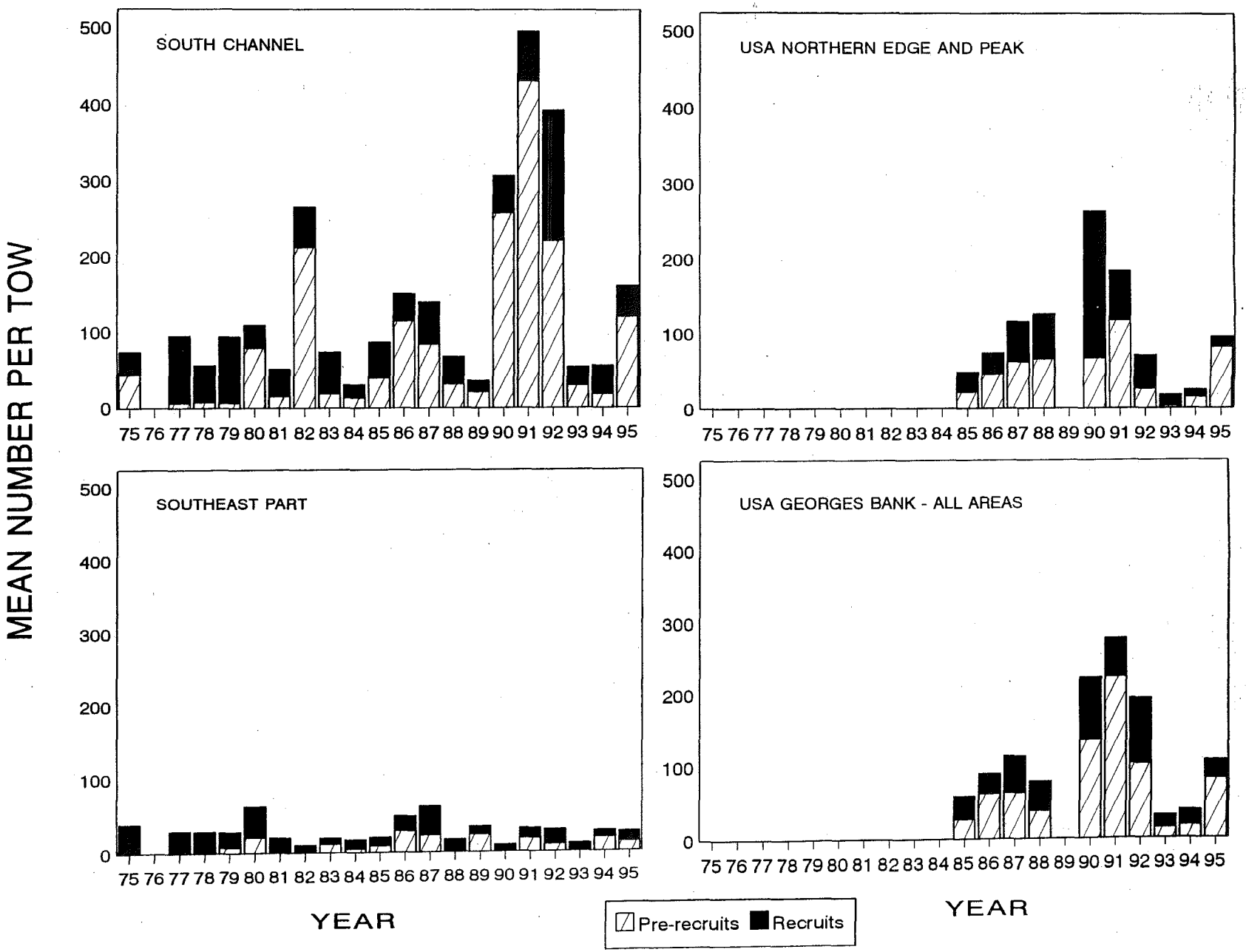



Figure 4. Distribution of sea scallops (number per tow) observed in the NEFSC sea scallop research vessel survey in the South Channel, Southeast Part, and USA and Canadian Northern Edge and Peak areas of the Georges Bank region, 1995.

# FIGURE 5. USA SEA SCALLOP RELATIVE ABUNDANCE INDICES MID-ATLANTIC



# FIGURE 6. USA SEA SCALLOP RELATIVE ABUNDANCE INDICES
# GEORGES BANK



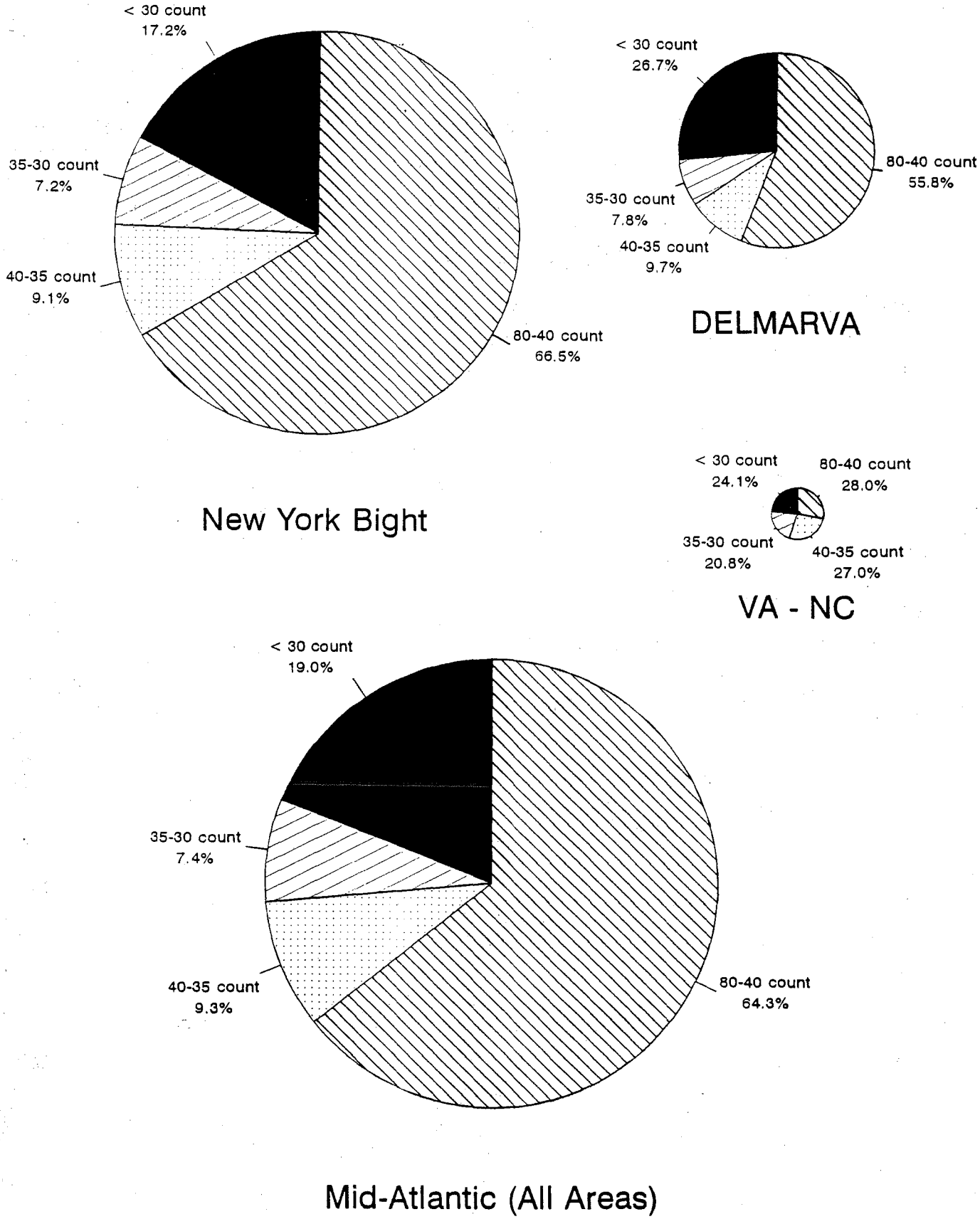



Figure 7. Percentage distribution of harvestable biomass (meat weight) of sea scallops by meat count interval in the mid-Atlantic region, 1995. Area of circles is proportional to harvestable biomass levels.

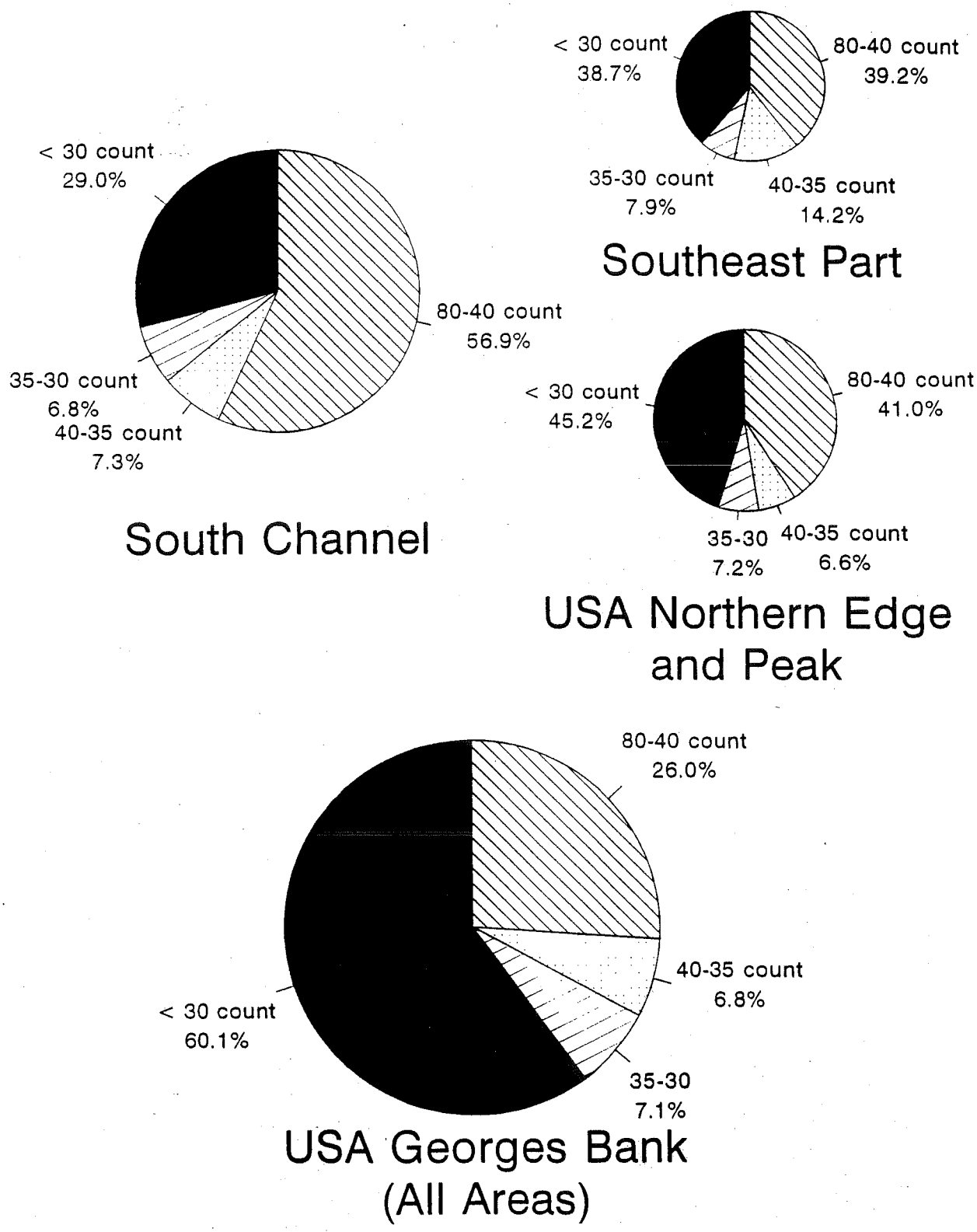



Figure 8. Percentage distribution of harvestable biomass (meat weight) of sea scallops by meat count interval in the USA portion of Georges Bank, 1995. Area of circles is proportional to harvestable biomass levels.

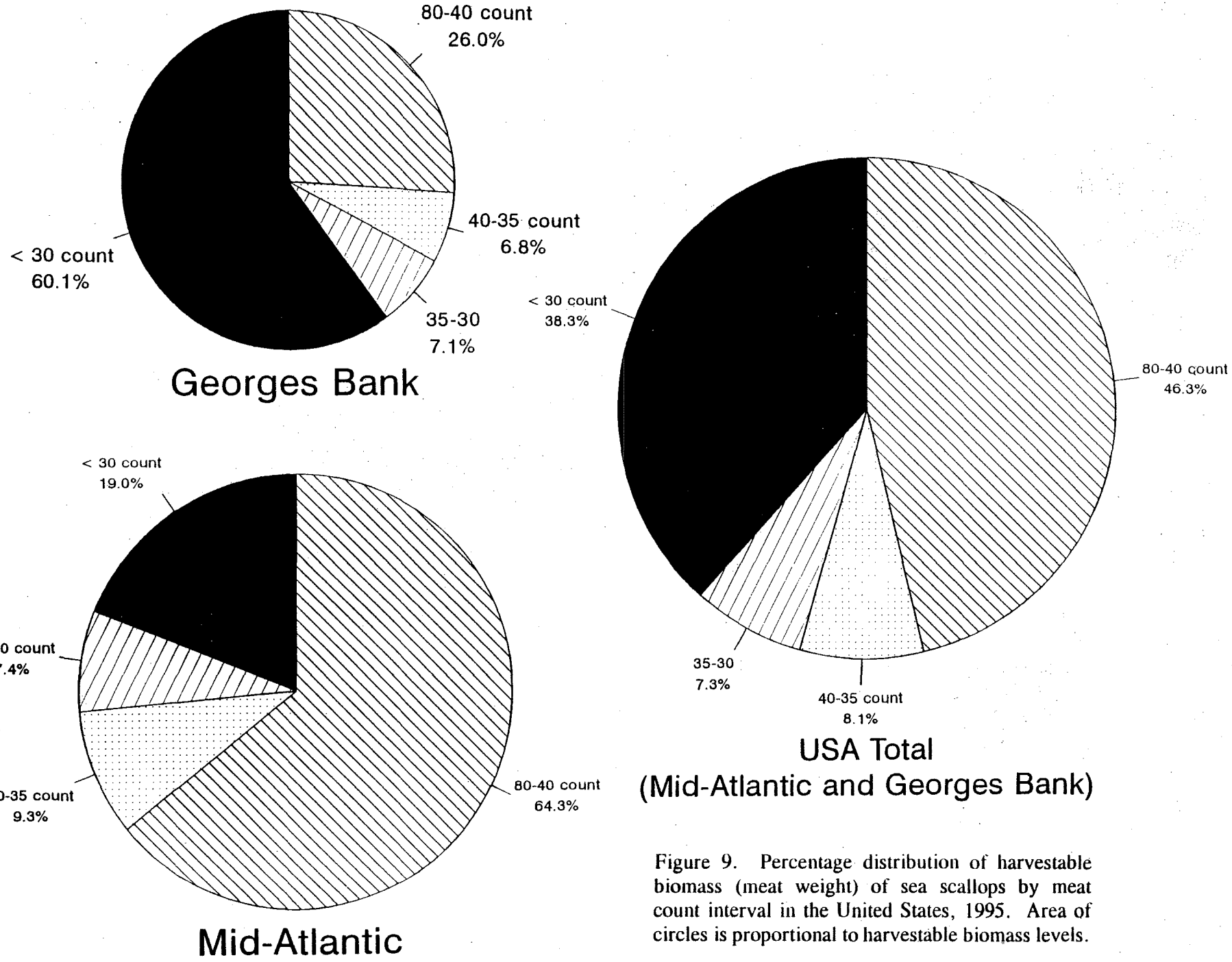



Figure 9. Percentage distribution of harvestable biomass (meat weight) of sea scallops by meat count interval in the United States, 1995. Area of circles is proportional to harvestable biomass levels.

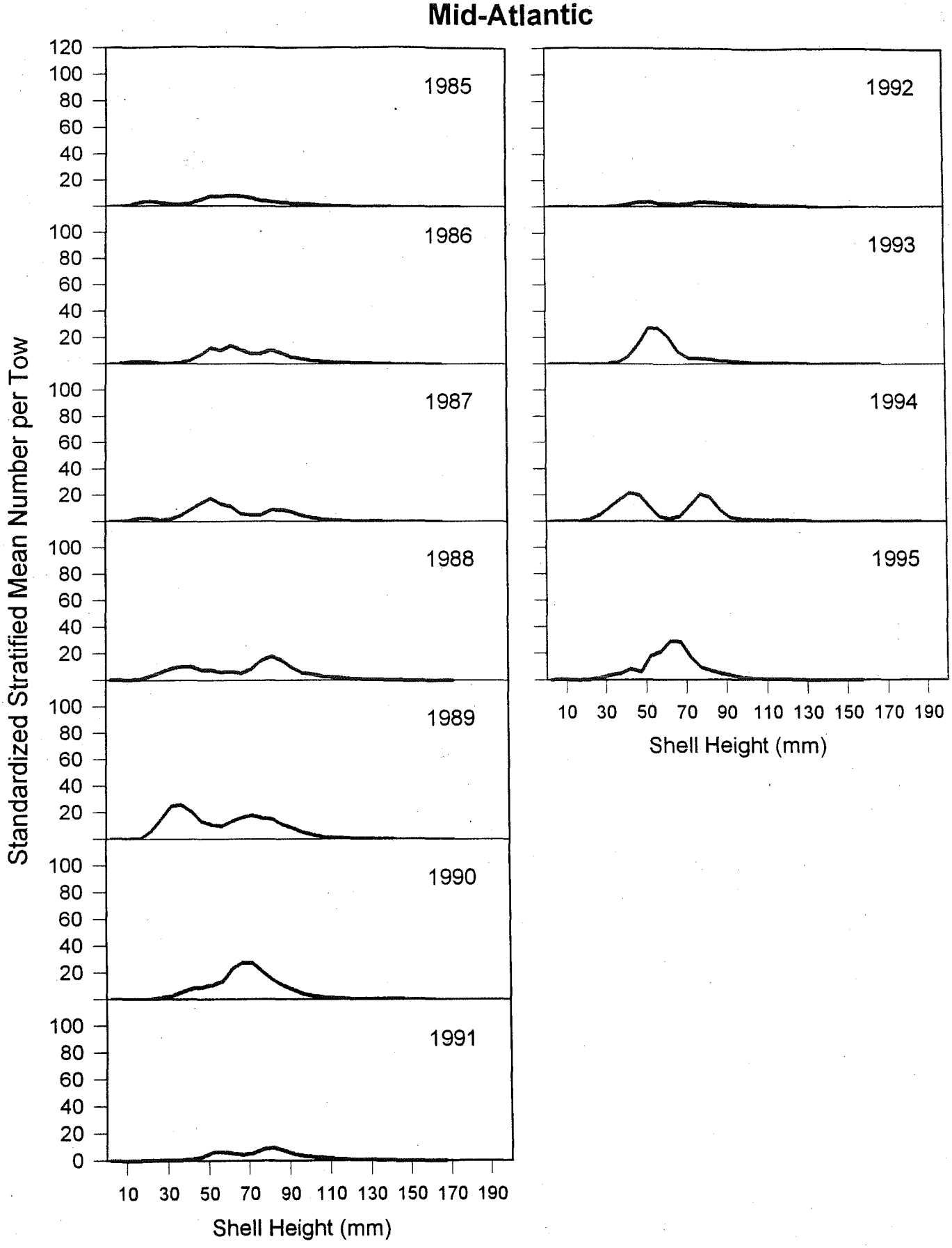



Figure 10. Shell height frequency distributions for sea scallops from the mid-Atlantic region, 1985-1995. Data from USA sea scallop research surveys.

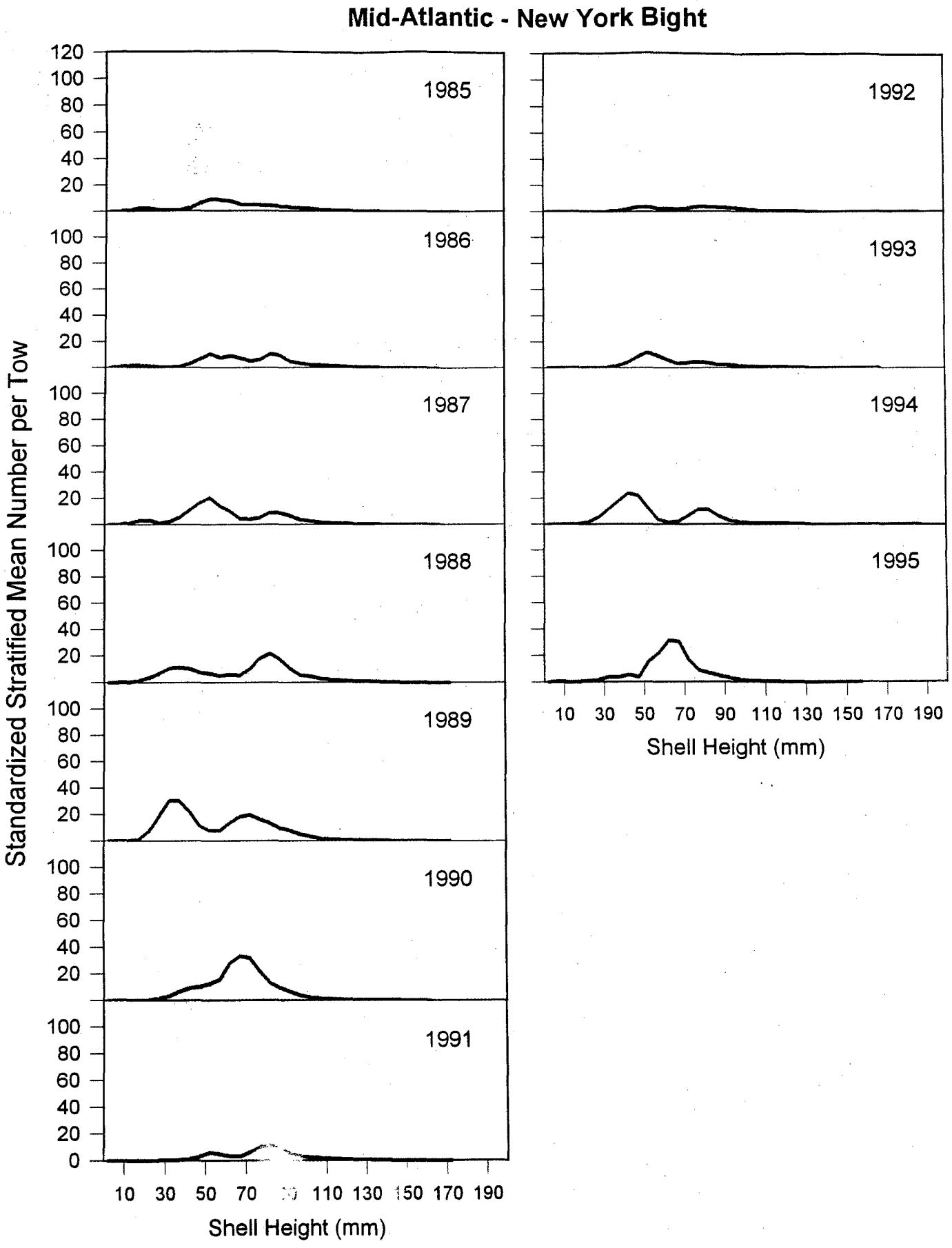



Figure 11. Shell height frequency distributions for sea scallops from the New York Bight, 1985-1995. Data from USA sea scallop research surveys.

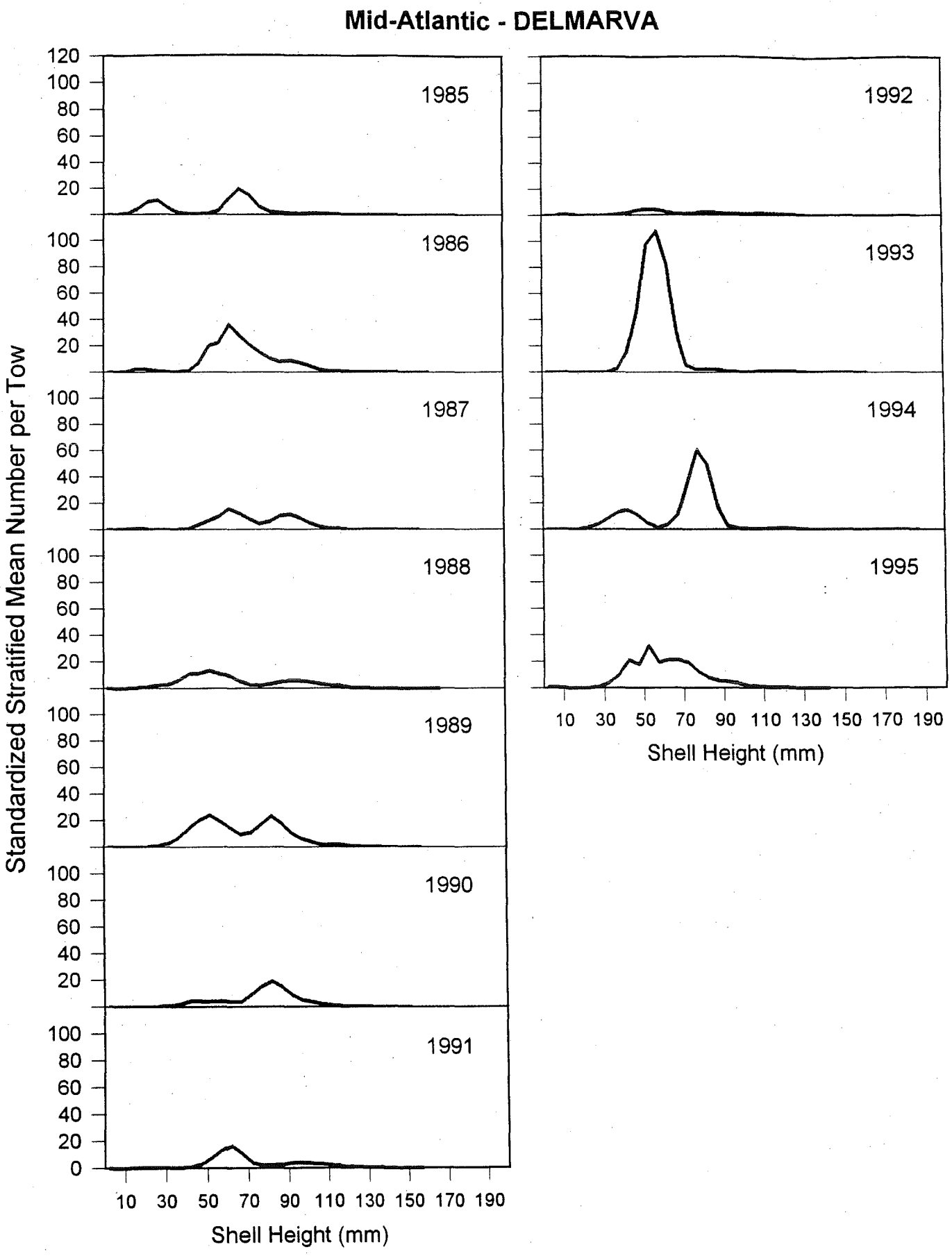



Figure 12. Shell height frequency distributions for sea scallops from the DELMARVA area of the mid-Atlantic region, 1985-1995. Data from USA sea scallop research surveys.

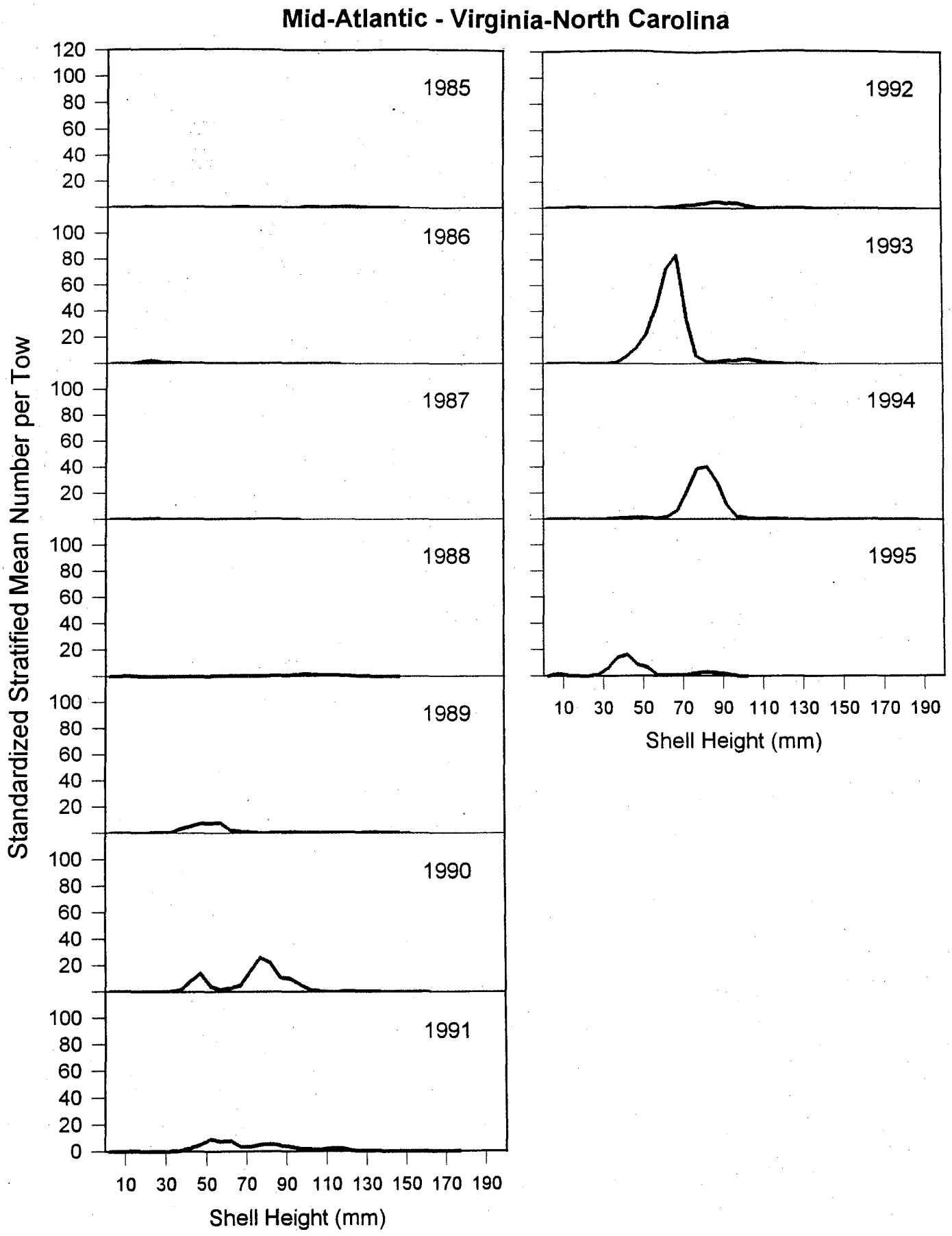



Figure 13. Shell height frequency distributions for sea scallops from the Virginia-North Carolina region of the mid-Atlantic, 1985-1995. Data from USA sea scallop research surveys.

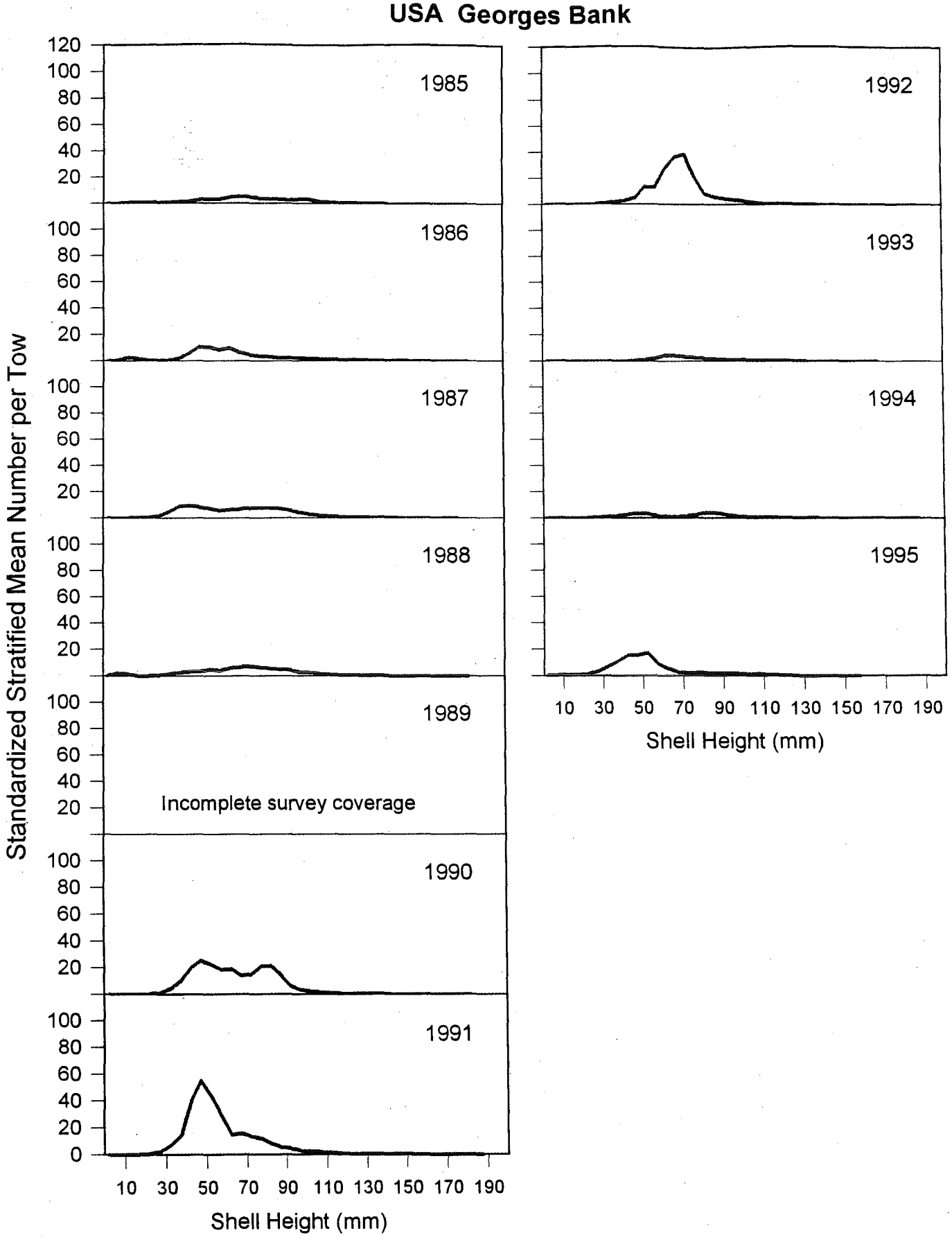



Figure 14. Shell height frequency distributions for sea scallops from the USA portion of Georges Bank, 1985-1995. Data from USA sea scallop research surveys.

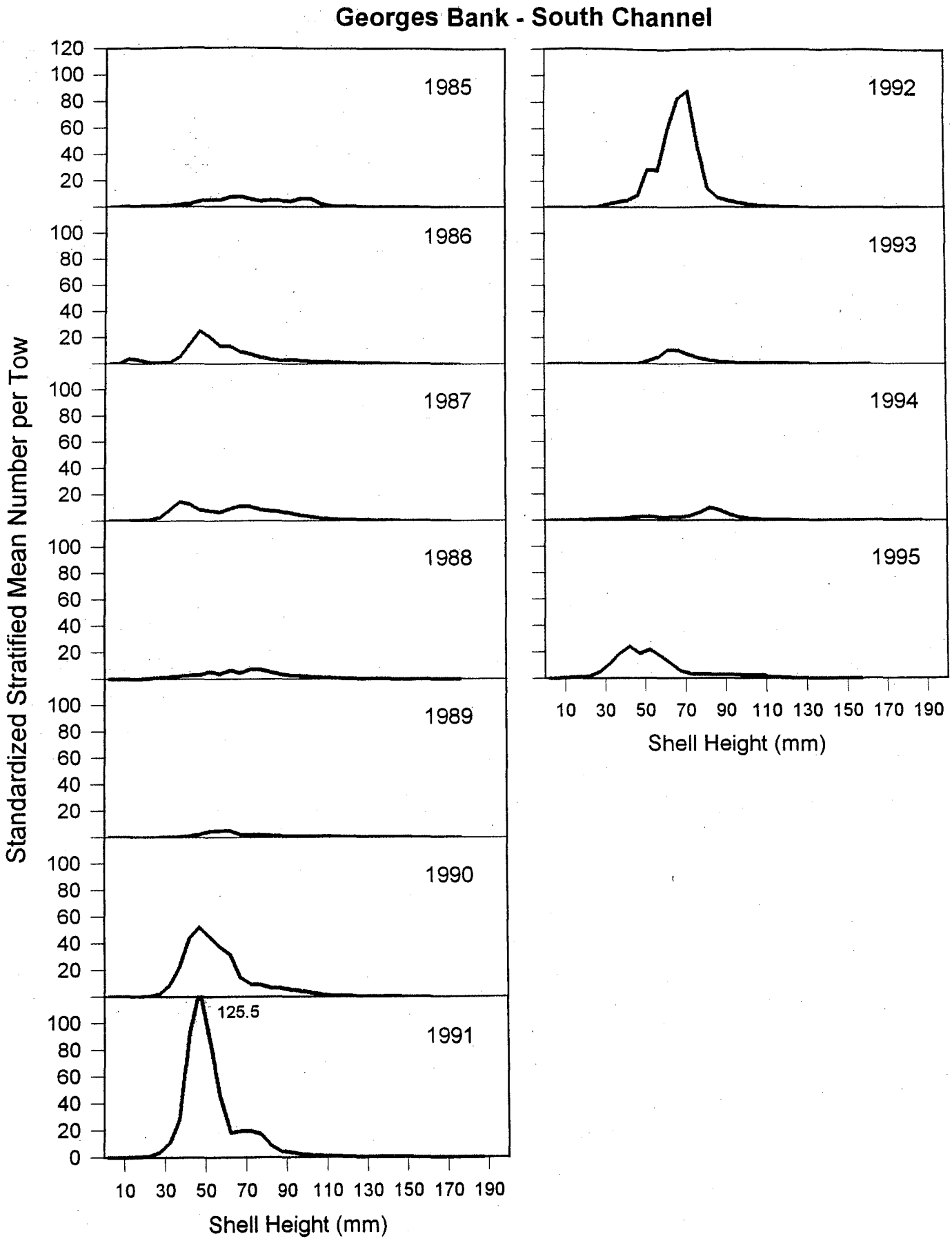



Figure 15. Shell height frequency distributions for sea scallops from the South Channel region of Georges Bank, 1985-1995. Data from USA sea scallop research surveys.

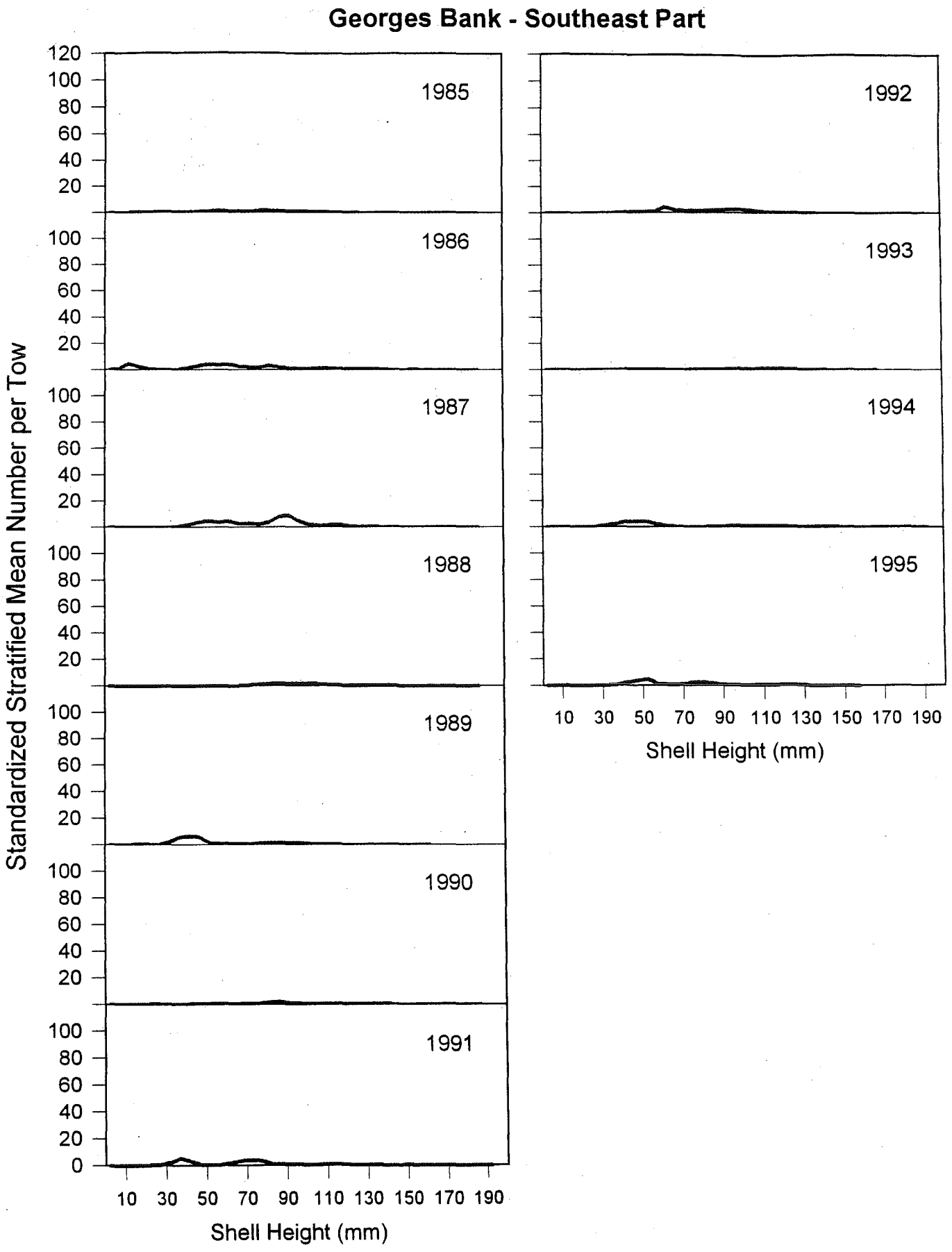



Figure 16. Shell height frequency distributions for sea scallops from the southeast part of Georges Bank, 1985-1995. Data from USA sea scallop research surveys.

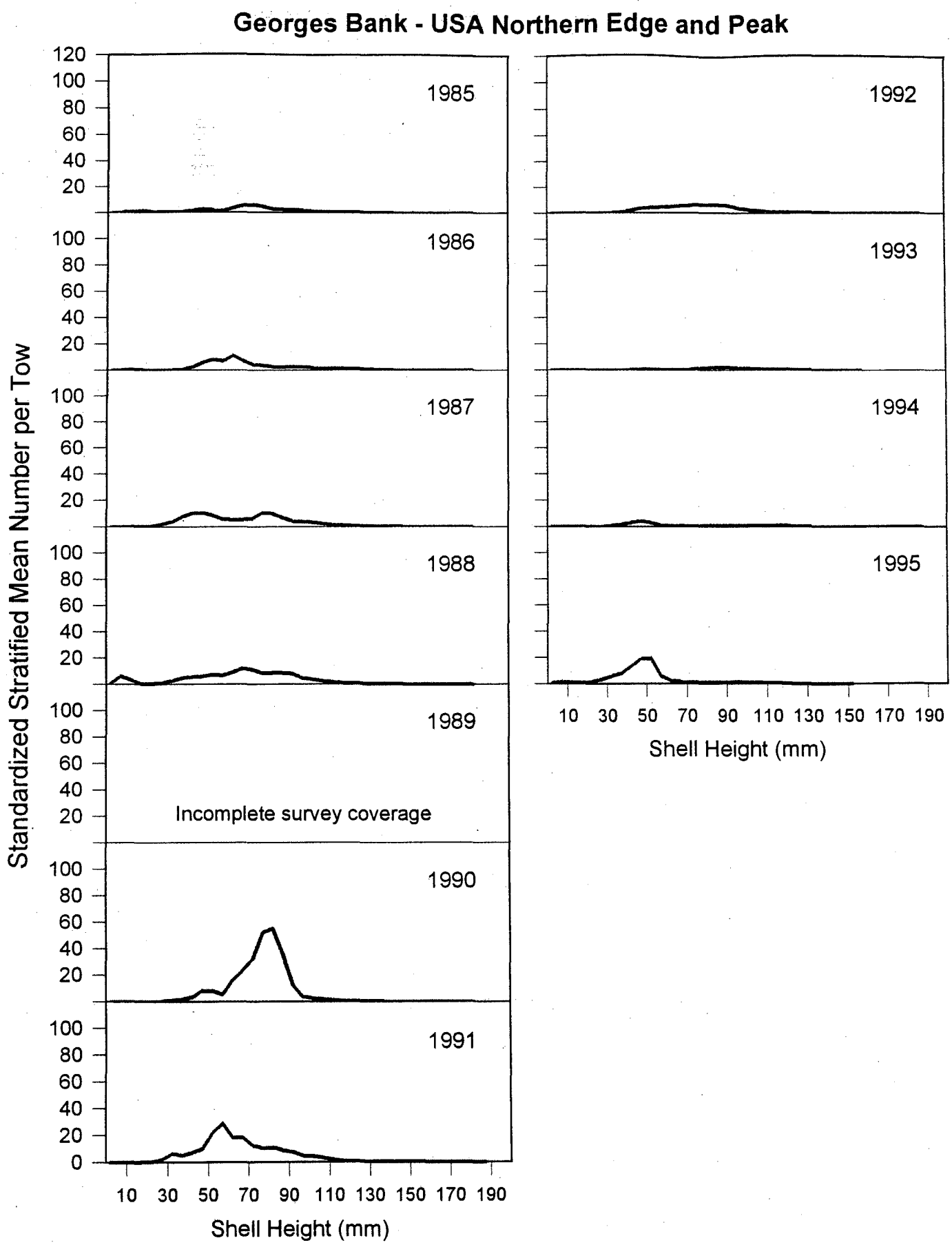



Figure 17. Shell height frequency distributions for sea scallops from the USA northern edge and peak of Georges Bank, 1985-1995. Data from USA sea scallop research surveys.

Appendix 1, Table 1. Number of tows accomplished in the NEFSC sea scallop research vessel surveys in the Mid-Atlantic, 1975, 1977-1995.

| Stratum | Area (sq mi) | YEAR | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 1975 | 1977 | 1978 | 1979 | 1980 | 1981 | 1982 | 1983 | 1984 | 1985 | 1986 |
| 1 | 1163 | 5 | 5 | 5 | N/S | N/S | N/S | 2 | 2 | 4 | 3 | 3 |
| 2 | 175 | 2 | N/S | 5 | N/S | 2 | 2 | 2 | 2 | 4 | 3 | 3 |
| 3 | 126 | 1 | 2 | 4 | N/S | 2 | 2 | 2 | 2 | 3 | 3 | 3 |
| 4 | 117 | 4 | 1 | 2 | N/S | N/S | 2 | 2 | 2 | 2 | 3 | 3 |
| 5 | 453 | 1 | 2 | 4 | 4 | 4 | 4 | 3 | 3 | 3 | 3 | 3 |
| 6 | 62 | N/S | N/S | 2 | 2 | 1 | 2 | 4 | 4 | 5 | 5 | 5 |
| 7 | 46 | N/S | 1 | 1 | 1 | 2 | 1 | 3 | 4 | 4 | 5 | 5 |
| 8 | 74 | N/S | N/S | N/S | 1 | 2 | 1 | 2 | 2 | 2 | 3 | 3 |
| VA - NC (6-7) | 108 | N/S | 1 | 3 | 3 | 3 | 3 | 7 | 8 | 9 | 10 | 10 |
| 9 | 2171 | 5 | 6 | 8 | 8 | 8 | 8 | 8 | 6 | 6 | 4 | 4 |
| 10 | 152 | 2 | N/S | 5 | 5 | 5 | 5 | 8 | 8 | 8 | 8 | 8 |
| 11 | 229 | 3 | 3 | 7 | 7 | 7 | 6 | 6 | 8 | 8 | 8 | 8 |
| 12 | 204 | 1 | 4 | 2 | 2 | 2 | 3 | 3 | 3 | 4 | 4 | 4 |
| 13 | 1127 | 4 | 2 | 5 | 5 | 5 | 4 | 4 | 4 | 4 | 4 | 4 |
| 14 | 219 | 1 | 1 | 7 | 7 | 7 | 6 | 6 | 8 | 10 | 10 | 12 |
| 15 | 394 | 5 | 2 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 |
| 16 | 211 | 1 | 1 | 2 | 2 | 2 | 3 | 3 | 7 | 7 | 8 | 8 |
| 17 | 749 | 2 | 3 | 4 | 3 | 4 | 4 | 4 | 4 | 4 | 3 | 3 |
| 18 | 249 | 2 | | 8 | 7 | 7 | 7 | 7 | 6 | 6 | 8 | 10 |
| 19 | 274 | 2 | 4 | 6 | 5 | 5 | 5 | 5 | 7 | 8 | 8 | 12 |
| 20 | 120 | N/S | 1 | N/S | 1 | 1 | 3 | 3 | 3 | 3 | 3 | 3 |
| Delmarva (10-11, 14-15, 18-19) | 1517 | 15 | 10 | 45 | 43 | 43 | 41 | 44 | 49 | 52 | 54 | 62 |
| 21 | 1650 | 4 | 16 | 7 | 6 | 6 | 4 | 4 | 4 | 4 | 4 | 4 |
| 22 | 312 | 1 | 5 | 15 | 12 | 12 | 12 | 12 | 8 | 8 | 8 | 8 |
| 23 | 714 | 3 | 27 | 16 | 20 | 20 | 2 | 20 | 16 | 16 | 16 | 16 |
| 24 | 476 | 3 | 19 | 3 | 3 | 3 | 6 | 6 | 6 | 6 | 6 | 6 |
| 25 | 648 | 2 | 4 | 5 | 4 | 4 | 7 | 7 | 6 | 7 | 4 | 4 |
| 26 | 188 | N/S | 2 | 7 | 8 | 9 | 9 | 9 | 13 | 13 | 14 | 14 |
| 27 | 451 | 1 | 9 | 12 | 12 | 11 | 12 | 12 | 10 | 10 | 12 | 20 |
| 28 | 149 | 1 | 2 | 2 | 2 | 2 | 3 | 3 | 7 | 6 | 6 | 10 |
| 29 | 1096 | 6 | 4 | 5 | 8 | 8 | 8 | 8 | 6 | 8 | 6 | 6 |
| 30 | 669 | 1 | 6 | 14 | 14 | 14 | 14 | 14 | 15 | 15 | 15 | 15 |
| 31 | 932 | 7 | 15 | 24 | 24 | 24 | 25 | 24 | 24 | 24 | 24 | 24 |
| 32 | 627 | 3 | 12 | 2 | 2 | 2 | 5 | 5 | 4 | 3 | 4 | 4 |
| 33 | 363 | 1 | 4 | 2 | 2 | 4 | 7 | 7 | 10 | 10 | 10 | 7 |
| 34 | 203 | N/S | 3 | 4 | 4 | 4 | 7 | 7 | 10 | 14 | 10 | 13 |
| 35 | 601 | 2 | 1 | 7 | 7 | 6 | 5 | 5 | 5 | 5 | 6 | 9 |
| 36 | 694 | 3 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| NY Bight (22-31, 33-35) | 6802 | 28 | 101 | 116 | 120 | 121 | 117 | 134 | 136 | 142 | 137 | 152 |
| Mid Atlantic | 8427 | 43 | 112 | 164 | 166 | 167 | 161 | 185 | 193 | 203 | 201 | 224 |

Appendix 1, Table 1. (continued).

| Stratum | Area (sq mi) | YEAR 1987 | 1988 | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | 1995 Sampling Ratio |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 1163 | 3 | 3 | N/S | N/S | N/S | N/S | N/S | N/S | N/S | N/S |
| 2 | 175 | 3 | 3 | N/S | N/S | N/S | N/S | N/S | N/S | N/S | N/S |
| 3 | 126 | 3 | 3 | N/S | N/S | N/S | N/S | N/S | N/S | N/S | N/S |
| 4 | 117 | 3 | 4 | N/S | N/S | N/S | N/S | N/S | N/S | N/S | N/S |
| 5 | 453 | 3 | 3 | N/S | N/S | N/S | N/S | N/S | N/S | N/S | N/S |
| 6 | 62 | 5 | 6 | 5 | 3 | 5 | 5 | 5 | 5 | 5 | 12 |
| 7 | 46 | 5 | 4 | 5 | 3 | 5 | 5 | 5 | 5 | 5 | 9 |
| 8 | 74 | 3 | 3 | 3 | N/S | N/S | N/S | N/S | N/S | N/S | N/S |
| VA -NC (6-7) | 108 | 10 | 10 | 10 | 6 | 10 | 10 | 10 | 10 | 10 | 11 |
| 9 | 2171 | 4 | 3 | N/S | N/S | N/S | N/S | N/S | N/S | N/S | N/S |
| 10 | 152 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 19 |
| 11 | 229 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 29 |
| 12 | 204 | 4 | 4 | 4 | N/S | N/S | N/S | N/S | N/S | N/S | N/S |
| 13 | 1127 | 3 | 4 | N/S | N/S | N/S | N/S | N/S | N/S | N/S | N/S |
| 14 | 219 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 18 |
| 15 | 394 | 11 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 33 |
| 16 | 211 | 7 | 8 | 8 | N/S | N/S | N/S | N/S | N/S | N/S | N/S |
| 17 | 749 | 1 | 3 | N/S | N/S | N/S | N/S | N/S | N/S | N/S | N/S |
| 18 | 249 | 10 | 10 | 10 | 10 | 10 | 10 | 8 | 10 | 10 | 25 |
| 19 | 274 | 12 | 12 | 12 | 12 | 11 | 12 | 10 | 12 | 12 | 23 |
| 20 | 120 | 3 | 3 | 3 | N/S | N/S | N/S | N/S | N/S | N/S | N/S |
| Delmarva (10-11 14-15, 18-19) | 1517 | 61 | 62 | 62 | 62 | 61 | 62 | 58 | 62 | 62 | 24 |
| 21 | 1650 | 2 | 4 | N/S | N/S | N/S | N/S | N/S | N/S | N/S | N/S |
| 22 | 312 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 39 |
| 23 | 714 | 16 | 16 | 16 | 16 | 16 | 16 | 16 | 16 | 16 | 45 |
| 24 | 476 | 4 | 6 | 6 | 5 | 6 | 6 | 6 | 5 | 6 | 79 |
| 25 | 648 | 4 | 4 | 4 | 3 | 4 | 4 | 4 | 4 | 4 | 162 |
| 26 | 188 | 14 | 13 | 14 | 12 | 14 | 14 | 14 | 14 | 12 | 16 |
| 27 | 451 | 19 | 19 | 20 | 17 | 20 | 20 | 20 | 20 | 20 | 23 |
| 28 | 149 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 15 |
| 29 | 1096 | 6 | 6 | 6 | 5 | 6 | 6 | 6 | 6 | 6 | 183 |
| 30 | 669 | 15 | 15 | 15 | 14 | 15 | 15 | 15 | 15 | 15 | 45 |
| 31 | 932 | 24 | 23 | 24 | 24 | 24 | 24 | 22 | 23 | 24 | 39 |
| 32 | 627 | 4 | 4 | 4 | N/S | N/S | N/S | N/S | N/S | N/S | N/S |
| 33 | 363 | 10 | 10 | 10 | 10 | 10 | 10 | 7 | 10 | 10 | 36 |
| 34 | 203 | 14 | 14 | 14 | 14 | 14 | 14 | 10 | 14 | 14 | 15 |
| 35 | 601 | 10 | 10 | 10 | 10 | 10 | 10 | 8 | 10 | 10 | 60 |
| 36 | 694 | 2 | 2 | 2 | N/S | N/S | N/S | N/S | N/S | N/S | N/S |
| NY Bight (22-31 33-35) | 6802 | 154 | 154 | 157 | 148 | 157 | 157 | 146 | 155 | 155 | 44 |
| Mid Atlantic | 8427 | 225 | 226 | 229 | 216 | 228 | 229 | 214 | 227 | 227 | 37 |

N/S = not sampled.

Appendix 1, Table 2. Number of tows accomplished in the NEFSC sea scallop research vessel surveys on Georges Bank, 1975, 1977-1995.

| Stratum | Area (sq mi) | YEAR | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 1975 | 1977 | 1978 | 1979 | 1980 | 1981 | 1982 | 1983 | 1984 | 1985 | 1986 |
| 45 | 392 | 3 | 3 | 2 | 2 | N/S | 2 | 2 | 2 | 3 | 3 | 3 |
| 46 | 416 | 3 | N/S | 4 | 4 | N/S | 5 | 6 | 6 | 6 | 6 | 6 |
| 47 | 871 | 13 | 4 | 9 | 9 | 4 | 9 | 9 | 9 | 9 | 10 | N/S |
| 48 | 1109 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 9 | N/S |
| 49 | 244 | 3 | 8 | 7 | 5 | 5 | 5 | 6 | 6 | 7 | 9 | 9 |
| 50 | 150 | 5 | 4 | 4 | 4 | 5 | 5 | 8 | 12 | 12 | 12 | 15 |
| 51 | 139 | 4 | N/S | 7 | 7 | 7 | 7 | 8 | 12 | 12 | 12 | 12 |
| 52 | 307 | 4 | 6 | 3 | 3 | 5 | 5 | 6 | 6 | 6 | 7 | 12 |
| 53 | 268 | 5 | 4 | 1 | 3 | N/S | 5 | 6 | 6 | 6 | 7 | 7 |
| 54 | 278 | 7 | 2 | 7 | 5 | 4 | 6 | 6 | 6 | 6 | 7 | 7 |
| 55 | 364 | 14 | 2 | 4 | 7 | 10 | 9 | 6 | 6 | 5 | 7 | N/S |
| 56 | 209 | 1 | 1 | N/S | 2 | 2 | 2 | 3 | 3 | 3 | 3 | N/S |
| South Channel (46-47, 49-55) | 3037 | 58 | 30 | 46 | 47 | 40 | 56 | 61 | 69 | 69 | 77 | 68 |
| 57 | 184 | N/S | 3 | 4 | 1 | 1 | 1 | 3 | 3 | 3 | 3 | 3 |
| 58 | 300 | 3 | 2 | 2 | 2 | 2 | 2 | 4 | 4 | 4 | 4 | 8 |
| 59 | 538 | 8 | 9 | 13 | 10 | 10 | 9 | 10 | 8 | 8 | 12 | 12 |
| 60 | 816 | 10 | 10 | 3 | 8 | 8 | 8 | 8 | 8 | 8 | 12 | 12 |
| SE Part (58-60) | 1654 | 21 | 21 | 18 | 20 | 20 | 19 | 22 | 20 | 20 | 28 | 32 |
| 61 | 576 | N/S | 6 | 3 | N/S | 18 | N/S | 7 | 7 | 7 | 8 | 8 |
| 62 | 701 | N/S | 11 | 10 | 13 | 20 | N/S | 9 | 9 | 9 | - | - |
| 621 | 547 | - | - | - | - | - | - | - | - | - | 12 | 12 |
| 622 | 154 | - | - | - | - | - | - | - | - | - | 4 | 5 |
| 63 | 694 | 15 | 15 | 12 | 37 | 44 | 15 | 10 | 10 | 10 | - | - |
| 631 | 340 | - | - | - | - | - | - | - | - | - | 7 | 7 |
| 632 | 354 | - | - | - | - | - | - | - | - | - | 7 | 12 |
| 64 | 988 | 7 | 22 | 36 | 36 | 174 | 56 | 14 | 14 | 14 | 16 | 107 |
| 65 | 164 | 8 | 3 | 8 | 16 | 16 | 12 | 12 | 15 | 14 | - | - |
| 651 | 102 | - | - | - | - | - | - | - | - | - | 10 | 12 |
| 652 | 62 | - | - | - | - | - | - | - | - | - | 6 | 5 |
| 66 | 266 | 6 | 12 | 4 | 11 | 12 | 15 | 14 | 14 | 14 | - | - |
| 661 | 117 | - | - | - | - | - | - | - | - | - | 10 | 12 |
| 662 | 149 | - | - | - | - | - | - | - | - | - | 8 | 17 |
| 71 | 146 | 4 | N/S | 3 | 21 | 4 | 3 | 4 | 4 | 5 | 6 | 6 |
| 72 | 504 | 4 | N/S | N/S | 3 | 8 | N/S | 5 | 4 | 4 | 6 | 6 |
| 73 | 501 | 2 | N/S | N/S | 2 | 9 | N/S | 5 | 4 | 4 | 5 | 6 |
| 74 | 433 | 7 | 2 | N/S | 16 | 15 | N/S | 5 | 5 | 5 | 8 | 7 |
| USA N. Edge & Peak* | 2765 | - | - | - | - | - | - | - | - | - | 67 | 70 |
| USA Georges Bank** | 7456 | - | - | - | - | - | - | - | - | - | 172 | 170 |
| CANADA N. Edge & Peak* | 1707 | - | - | - | - | - | - | - | - | - | 41 | 146 |
| TOTAL N. Edge & Peak | 4472 | 51 | 71 | 76 | 153 | 311 | 101 | 80 | 82 | 82 | 108 | 216 |
| TOTAL Georges Bank | 9163 | 130 | 122 | 140 | 220 | 371 | 176 | 163 | 171 | 171 | 213 | 316 |

Appendix 1, Table 2. (continued).

| Stratum | Area (sq mi) | YEAR 1987 | 1988 | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | 1995 Sampling Ratio |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 45 | 392 | 3 | 3 | 3 | N/S | N/S | N/S | N/S | N/S | N/S | N/S |
| 46 | 416 | 6 | 6 | 6 | 6 | 6 | 6 | 5 | 6 | 6 | 69 |
| 47 | 871 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 73 |
| 48 | 1109 | 9 | 9 | 9 | N/S | N/S | N/S | N/S | N/S | N/S | N/S |
| 49 | 244 | 7 | 9 | 8 | 6 | 7 | 8 | 6 | 7 | 9 | 27 |
| 50 | 150 | 16 | 16 | 15 | 9 | 15 | 15 | 11 | 15 | 16 | 9 |
| 51 | 139 | 11 | 12 | 12 | 10 | 10 | 10 | 9 | 12 | 11 | 13 |
| 52 | 307 | 11 | 12 | 12 | 7 | 12 | 10 | 10 | 12 | 12 | 26 |
| 53 | 268 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 38 |
| 54 | 278 | 7 | 7 | 6 | 10 | 7 | 7 | 6 | 7 | 7 | 40 |
| 55 | 364 | 9 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 36 |
| 56 | 209 | 3 | 3 | 3 | N/S | N/S | N/S | N/S | N/S | N/S | N/S |
| South Channel (46-47, 49-55) | 3037 | 86 | 91 | 88 | 76 | 86 | 85 | 76 | 88 | 90 | 34 |
| 57 | 184 | 3 | 3 | 3 | N/S | N/S | N/S | N/S | N/S | N/S | N/S |
| 58 | 300 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 38 |
| 59 | 538 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 45 |
| 60 | 816 | 12 | 12 | 11 | 12 | 12 | 12 | 12 | 12 | 12 | 68 |
| SE Part (58-60) | 1654 | 32 | 32 | 31 | 32 | 32 | 32 | 32 | 32 | 32 | 52 |
| 61 | 576 | 8 | 8 | N/S | 8 | 8 | 8 | 8 | 8 | 8 | 72 |
| 62 | 701 | - | - | - | - | - | - | - | - | - | - |
| 621 | 547 | 12 | 12 | N/S | 12 | 12 | 12 | 12 | 12 | 12 | 46 |
| 622 | 154 | 6 | 6 | N/S | 6 | 1 | N/S | 6 | 6 | 6 | 26 |
| 63 | 694 | - | - | - | - | - | - | - | - | - | - |
| 631 | 340 | 7 | 7 | N/S | 7 | 7 | 7 | 7 | 7 | 7 | 49 |
| 632 | 354 | 8 | 8 | N/S | 7 | 2 | N/S | 8 | 8 | 8 | 44 |
| 64 | 988 | 16 | 16 | N/S | 16 | N/S | N/S | 16 | 15 | 16 | 62 |
| 65 | 164 | - | - | - | - | - | - | - | - | - | - |
| 651 | 102 | 12 | 12 | N/S | 12 | 12 | 11 | 9 | 11 | 12 | 9 |
| 652 | 62 | 10 | 10 | N/S | 9 | 10 | N/S | 11 | 10 | 10 | 6 |
| 66 | 266 | - | - | - | - | - | - | - | - | - | - |
| 661 | 117 | 12 | 12 | N/S | 12 | 12 | 12 | 9 | 12 | 12 | 10 |
| 662 | 149 | 7 | 8 | N/S | 3 | 1 | N/S | 7 | 8 | 8 | 19 |
| 71 | 146 | 6 | 6 | N/S | 6 | 6 | 5 | 6 | 6 | 6 | 24 |
| 72 | 504 | 6 | 6 | N/S | N/S | 6 | 6 | 6 | 6 | 6 | 84 |
| 73 | 501 | 6 | 6 | N/S | N/S | N/S | N/S | N/S | N/S | N/S | N/S |
| 74 | 433 | 9 | 8 | N/S | 8 | 8 | 8 | 8 | 8 | 8 | 54 |
| USA N. Edge & Peak* | 2765 | 71 | 71 | N/S | 65 | 71 | 69 | 65 | 70 | 71 | 39 |
| USA Georges Bank** | 7456 | 189 | 194 | - | 173 | 189 | 186 | 173 | 190 | 193 | 39 |
| CANADA N. Edge & Peak* | 1707 | 47 | 48 | N/S | 41 | 14 | N/S | 48 | 47 | 48 | 36 |
| TOTAL N. Edge & Peak | 4472 | 118 | 119 | - | 106 | 85 | - | 113 | 117 | 119 | 38 |
| TOTAL Georges Bank | 9163 | 236 | 242 | - | 214 | 203 | - | 223 | 237 | 241 | 38 |

* USA N. Edge & Peak: Strata 61, 621, 631, 651, 661, 71, 72, 74; Canada N. Edge & Peak: Strata 622, 632, 64, 652, 662.
** USA Georges Bank: Combined South Channel, SE Part, and USA Edge & Peak regions.
N/S = not sampled.
- = not calculated.

Appendix 1, Table 3. Standardized mean number of sea scallops per tow by stratum, and standardized stratified mean number of sea scallops per tow by area and region, from the NEFSC sea scallop research vessel surveys in the Mid-Atlantic, 1975, 1977-1995.

| Stratum | Area (sq mi) | YEAR | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 1975 | 1977 | 1978 | 1979 | 1980 | 1981 | 1982 | 1983 | 1984 | 1985 |
| 1 | 1163 | 0.0 | 0.0 | 25.4 | N/S | N/S | N/S | 1.0 | 0.0 | 0.0 | 8.7 |
| 2 | 175 | 3.0 | N/S | 9.8 | N/S | 0.5 | 0.0 | 5.5 | 40.0 | 0.0 | 0.3 |
| 3 | 126 | 933.0 | 2.0 | 5.3 | N/S | 0.5 | 2.5 | 0.0 | 1.5 | 1.0 | 1.0 |
| 4 | 117 | 11.5 | 0.0 | 0.0 | N/S | N/S | 0.5 | 1.5 | 0.0 | 0.5 | 0.0 |
| 5 | 453 | 0.0 | 0.5 | 22.5 | 1.5 | 0.0 | 0.0 | 0.0 | 7.7 | 0.0 | 0.7 |
| 6 | 62 | N/S | N/S | 92.0 | 72.0 | 58.0 | 12.5 | 4.5 | 34.0 | 10.4 | 12.2 |
| 7 | 46 | N/S | 10.0 | 30.0 | 12.0 | 29.0 | 3.0 | 3.7 | 42.3 | 20.8 | 4.8 |
| 8 | 74 | N/S | N/S | N/S | 18.0 | 0.0 | 0.0 | 1.5 | 2.0 | 3.5 | 0.0 |
| VA-NC (6-7) | 108 | N/S | 10.0 | 65.6 | 46.4 | 45.6 | 8.5 | 4.1 | 37.5 | 14.8 | 9.0 |
| 9 | 2171 | 24.4 | 12.0 | 4.3 | 130.0 | 11.4 | 9.1 | 7.0 | 5.5 | 4.8 | 23.5 |
| 10 | 152 | 80.5 | N/S | 134.6 | 165.0 | 148.0 | 26.2 | 18.0 | 47.4 | 14.9 | 36.6 |
| 11 | 229 | 41.7 | 55.3 | 113.0 | 64.9 | 78.1 | 14.8 | 16.5 | 44.6 | 12.6 | 42.4 |
| 12 | 204 | 0.0 | 2.0 | 0.5 | 0.0 | 0.5 | 3.0 | 5.3 | 5.3 | 5.0 | 0.8 |
| 13 | 1127 | 82.3 | 45.0 | 34.8 | 4.4 | 5.6 | 0.8 | 0.3 | 0.0 | 0.8 | 0.8 |
| 14 | 219 | 72.0 | 48.0 | 68.9 | 53.7 | 61.7 | 13.7 | 23.8 | 33.1 | 18.2 | 159.7 |
| 15 | 394 | 113.0 | 60.5 | 127.0 | 113.4 | 97.9 | 21.7 | 40.4 | 57.8 | 53.3 | 62.6 |
| 16 | 211 | 1.0 | 13.0 | 0.0 | 0.0 | 23.0 | 1.5 | 97.0 | 15.1 | 8.0 | 5.9 |
| 17 | 749 | 13.0 | 12.7 | 1.5 | 4.7 | 6.3 | 2.3 | 1.3 | 0.8 | 1.8 | 1.3 |
| 18 | 249 | 22.5 | N/S | 108.0 | 48.7 | 40.7 | 10.9 | 10.7 | 7.7 | 42.2 | 84.6 |
| 19 | 274 | 13.5 | 65.5 | 66.2 | 102.2 | 273.0 | 26.2 | 47.6 | 53.4 | 68.0 | 237.5 |
| 20 | 120 | N/S | 0.0 | N/S | 3.0 | 50.0 | 10.0 | 8.0 | 0.0 | 2.0 | 5.7 |
| Delmarva (10-11, 14-15, 18-19) | 1517 | 60.2 | 58.2 | 103.1 | 90.0 | 117.0 | 19.0 | 28.6 | 42.2 | 39.1 | 106.2 |
| 21 | 1650 | 2.8 | 0.9 | 0.4 | 9.3 | 0.8 | 1.3 | 4.0 | 0.5 | 6.8 | 9.3 |
| 22 | 312 | 11.0 | 73.2 | 21.1 | 16.8 | 10.2 | 3.1 | 4.7 | 4.9 | 10.4 | 21.3 |
| 23 | 714 | 99.0 | 99.9 | 106.4 | 66.2 | 77.4 | 63.8 | 32.8 | 25.9 | 64.5 | 96.0 |
| 24 | 476 | 88.3 | 2.4 | 8.0 | 6.3 | 9.7 | 3.7 | 20.2 | 7.5 | 29.8 | 8.0 |
| 25 | 648 | 41.0 | 19.0 | 9.2 | 17.0 | 8.5 | 39.6 | 14.3 | 6.2 | 9.3 | 19.0 |
| 26 | 188 | N/S | 60.0 | 42.6 | 19.0 | 42.1 | 89.8 | 104.0 | 25.4 | 64.8 | 72.2 |
| 27 | 451 | 22.0 | 164.4 | 94.5 | 32.3 | 35.3 | 35.0 | 38.2 | 21.2 | 63.5 | 232.1 |
| 28 | 149 | 0.0 | 30.0 | 34.0 | 2.5 | 0.5 | 18.5 | 118.3 | 10.6 | 39.5 | 107.5 |
| 29 | 1096 | 8.8 | 29.0 | 17.4 | 14.9 | 24.0 | 6.0 | 2.3 | 19.7 | 23.4 | 16.3 |
| 30 | 669 | 23.0 | 106.0 | 106.4 | 16.9 | 35.6 | 37.3 | 30.0 | 31.2 | 21.9 | 52.1 |
| 31 | 932 | 222.9 | 70.1 | 95.4 | 20.0 | 33.0 | 53.3 | 46.3 | 30.0 | 34.0 | 157.8 |
| 32 | 627 | 0.0 | 2.1 | 2.5 | 1.5 | 1.0 | 1.0 | 1.8 | 0.8 | 13.0 | 0.8 |
| 33 | 363 | 240.0 | 25.3 | 88.5 | 25.5 | 40.3 | 126.0 | 61.3 | 47.3 | 23.8 | 67.2 |
| 34 | 203 | N/S | 102.3 | 73.0 | 44.0 | 70.5 | 93.3 | 123.1 | 210.0 | 150.1 | 74.8 |
| 35 | 601 | 4.0 | 0.0 | 11.3 | 10.7 | 9.3 | 3.8 | 9.0 | 0.0 | 27.2 | 112.8 |
| 36 | 694 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| NY Bight (22-31, 33-35) | 6802 | 74.1 | 58.1 | 56.0 | 22.9 | 30.6 | 37.8 | 31.8 | 25.5 | 35.8 | 78.3 |
| Mid Atlantic | 8427 | 71.4 | 57.9 | 64.6 | 35.3 | 46.3 | 34.1 | 30.9 | 28.7 | 36.1 | 82.5 |

N/S = not sampled.
- = not calculated.

Appendix 1, Table 3. (continued).

| Stratum | Area (sq mi) | YEAR 1986 | 1987 | 1988 | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | HISTORIC LOW | HIGH |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 1163 | 0.0 | 0.7 | 0.0 | N/S | N/S | N/S | N/S | N/S | N/S | N/S | 0.0 | 25.4 |
| 2 | 175 | 0.0 | 1.0 | 1.7 | N/S | N/S | N/S | N/S | N/S | N/S | N/S | 0.0 | 40.0 |
| 3 | 126 | 0.0 | 0.0 | 0.7 | N/S | N/S | N/S | N/S | N/S | N/S | N/S | 0.0 | 933.0 |
| 4 | 117 | 0.0 | 0.0 | 4.8 | N/S | N/S | N/S | N/S | N/S | N/S | N/S | 0.0 | 11.5 |
| 5 | 453 | 0.0 | 0.0 | 0.0 | N/S | N/S | N/S | N/S | N/S | N/S | N/S | 0.0 | 22.5 |
| 6 | 62 | 10.6 | 0.4 | 4.5 | 71.4 | 35.3 | 92.6 | 51.4 | 440.0 | 161.4 | 40.4 | 0.4 | 440.0 |
| 7 | 46 | 3.0 | 4.6 | 27.0 | 1.4 | 256.7 | 37.6 | 9.0 | 121.6 | 155.2 | 104.0 | 1.4 | 256.7 |
| 8 | 74 | 0.0 | 0.0 | 3.3 | 0.0 | N/S | N/S | N/S | N/S | N/S | N/S | 0.0 | 18.0 |
| VA-NC (6-7) | 108 | 7.4 | 2.2 | 14.1 | 41.6 | 129.6 | 69.2 | 33.3 | 304.4 | 158.8 | 67.5 | 2.2 | 304.4 |
| 9 | 2171 | 7.8 | 14.0 | 7.0 | N/S | N/S | N/S | N/S | N/S | N/S | N/S | 4.3 | 130.0 |
| 10 | 152 | 228.1 | 132.8 | 73.4 | 177.0 | 39.6 | 196.9 | 79.8 | 549.9 | 184.8 | 189.6 | 14.9 | 549.9 |
| 11 | 229 | 246.8 | 105.8 | 62.3 | 89.5 | 54.3 | 127.5 | 81.9 | 804.1 | 422.9 | 256.6 | 12.6 | 804.1 |
| 12 | 204 | 1.5 | 1.5 | 8.8 | 0.8 | N/S | N/S | N/S | N/S | N/S | N/S | 0.0 | 8.8 |
| 13 | 1127 | 0.3 | 1.0 | 21.0 | N/S | N/S | N/S | N/S | N/S | N/S | N/S | 0.0 | 82.3 |
| 14 | 219 | 267.8 | 195.8 | 142.1 | 148.2 | 135.0 | 28.8 | 15.8 | 137.8 | 53.0 | 147.7 | 13.7 | 267.8 |
| 15 | 394 | 194.6 | 88.9 | 114.3 | 311.8 | 87.3 | 90.6 | 35.4 | 559.3 | 422.3 | 348.8 | 21.7 | 559.3 |
| 16 | 211 | 5.0 | 3.4 | 5.4 | 3.6 | N/S | N/S | N/S | N/S | N/S | N/S | 0.0 | 97.0 |
| 17 | 749 | 11.7 | 19.0 | 0.7 | N/S | N/S | N/S | N/S | N/S | N/S | N/S | 0.7 | 19.0 |
| 18 | 249 | 127.2 | 91.7 | 149.6 | 224.7 | 98.1 | 14.6 | 16.0 | 35.6 | 39.4 | 29.5 | 7.7 | 224.7 |
| 19 | 274 | 203.5 | 92.3 | 129.8 | 220.3 | 211.6 | 76.2 | 29.4 | 313.7 | 212.0 | 167.0 | 13.5 | 313.7 |
| 20 | 120 | 6.0 | 4.3 | 1.0 | 1.0 | N/S | N/S | N/S | N/S | N/S | N/S | 0.0 | 50.0 |
| Delmarva (10-11, 14-15, 18-19) | 1517 | 206.9 | 112.4 | 115.0 | 210.3 | 108.6 | 82.8 | 39.7 | 404.1 | 244.4 | 204.7 | 19.0 | 404.1 |
| 21 | 1650 | 0.3 | 5.0 | 5.3 | N/S | N/S | N/S | N/S | N/S | N/S | N/S | 0.3 | 9.3 |
| 22 | 312 | 25.9 | 118.1 | 136.9 | 102.4 | 35.0 | 15.4 | 10.3 | 62.8 | 53.4 | 49.5 | 3.1 | 136.9 |
| 23 | 714 | 185.6 | 199.1 | 357.9 | 574.3 | 698.9 | 129.6 | 70.4 | 120.3 | 336.4 | 485.3 | 25.9 | 698.9 |
| 24 | 476 | 1.3 | 0.8 | 23.8 | 26.7 | 6.8 | 13.3 | 2.0 | 82.7 | 583.0 | 498.8 | 0.8 | 583.0 |
| 25 | 648 | 14.8 | 71.0 | 54.5 | 54.8 | 4.0 | 6.8 | 45.0 | 27.3 | 11.8 | 17.5 | 4.0 | 71.0 |
| 26 | 188 | 65.9 | 423.7 | 186.6 | 256.2 | 24.8 | 116.1 | 286.0 | 53.2 | 54.4 | 83.2 | 19.0 | 423.7 |
| 27 | 451 | 266.0 | 372.6 | 611.6 | 1350.7 | 903.9 | 275.9 | 81.9 | 200.6 | 360.5 | 238.2 | 21.2 | 1350.7 |
| 28 | 149 | 19.0 | 37.1 | 52.4 | 87.9 | 101.3 | 80.7 | 11.8 | 187.2 | 271.9 | 434.2 | 0.0 | 271.9 |
| 29 | 1096 | 50.2 | 22.5 | 19.8 | 22.3 | 46.4 | 34.0 | 2.5 | 21.8 | 13.8 | 12.2 | 2.3 | 50.2 |
| 30 | 669 | 84.1 | 196.8 | 240.5 | 192.2 | 89.2 | 39.2 | 34.5 | 78.2 | 67.9 | 97.6 | 16.9 | 240.5 |
| 31 | 932 | 195.1 | 190.4 | 291.7 | 329.1 | 392.2 | 175.2 | 78.1 | 109.1 | 167.8 | 196.0 | 20.0 | 392.2 |
| 32 | 627 | 2.3 | 0.0 | 8.0 | 8.0 | N/S | N/S | N/S | N/S | N/S | N/S | 0.0 | 13.0 |
| 33 | 363 | 56.6 | 241.5 | 63.2 | 14.6 | 35.2 | 30.1 | 8.1 | 10.7 | 39.7 | 64.5 | 8.1 | 241.5 |
| 34 | 203 | 205.5 | 159.2 | 202.6 | 138.8 | 78.6 | 43.9 | 27.7 | 11.2 | 51.0 | 58.7 | 11.2 | 210.0 |
| 35 | 601 | 92.6 | 38.3 | 28.8 | 81.8 | 11.2 | 5.2 | 14.9 | 8.6 | 14.6 | 31.6 | 0.0 | 112.8 |
| 36 | 694 | 0.0 | 0.0 | 0.5 | 0.0 | N/S | N/S | N/S | N/S | N/S | N/S | 0.0 | 0.5 |
| NY Bight (22-31, 33-35) | 6802 | 102.5 | 140.5 | 176.4 | 250.4 | 213.9 | 75.9 | 43.0 | 70.6 | 147.9 | 163.8 | 22.9 | 250.4 |
| Mid Atlantic | 8427 | 120.0 | 133.6 | 163.2 | 240.5 | 193.8 | 77.0 | 42.3 | 133.6 | 165.4 | 169.9 | 28.7 | 240.5 |

N/S = not sampled.
- = not calculated.

Appendix 1, Table 4. Standardized mean number of pre-recruit [<70 mm shell height] sea scallop per tow by stratum, and standardized stratified mean number of per-recruit scallops per tow by area and region from the NEFSC sea scallop research vessel surveys in the Mid-Atlantic, 1975, 1977-1995.

| Stratum | Area (sq mi) | YEAR 1975 | 1977 | 1978 | 1979 | 1980 | 1981 | 1982 | 1983 | 1984 | 1985 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 1163 | 0.0 | 0.0 | 20.6 | N/S | N/S | N/S | 1.0 | 0.0 | 0.0 | 5.3 |
| 2 | 175 | 2.5 | N/S | 8.6 | N/S | 0.5 | 0.0 | 5.0 | 34.5 | 0.0 | 0.3 |
| 3 | 126 | 756.0 | 0.5 | 4.0 | N/S | 0.0 | 2.0 | 0.0 | 1.5 | 1.0 | 0.0 |
| 4 | 117 | 11.5 | 0.0 | 0.0 | N/S | N/S | 0.5 | 1.5 | 0.0 | 0.5 | 0.0 |
| 5 | 453 | 0.0 | 0.5 | 13.3 | 0.8 | 0.0 | 0.0 | 0.0 | 3.3 | 0.0 | 0.0 |
| 6 | 62 | N/S | N/S | 20.0 | 40.5 | 3.0 | 1.5 | 0.3 | 19.5 | 0.0 | 2.2 |
| 7 | 46 | N/S | 0.0 | 9.0 | 1.0 | 11.5 | 0.0 | 0.7 | 34.3 | 0.5 | 1.0 |
| 8 | 74 | N/S | N/S | N/S | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.5 | 0.0 |
| VA-NC (6-7) | 108 | N/S | 0.0 | 15.3 | 23.7 | 6.6 | 0.9 | 0.4 | 25.8 | 0.2 | 1.7 |
| 9 | 2171 | 16.0 | 1.7 | 3.3 | 67.6 | 3.0 | 3.8 | 0.6 | 3.5 | 0.5 | 17.8 |
| 10 | 152 | 69.0 | N/S | 39.0 | 79.6 | 68.0 | 5.4 | 4.6 | 32.1 | 2.6 | 22.6 |
| 11 | 229 | 34.0 | 4.3 | 52.6 | 4.9 | 36.0 | 1.0 | 3.0 | 34.3 | 3.0 | 24.4 |
| 12 | 204 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.5 | 1.7 | 1.3 | 0.3 | 0.0 |
| 13 | 1127 | 49.8 | 0.0 | 1.0 | 0.6 | 2.0 | 0.2 | 0.0 | 0.0 | 0.5 | 0.0 |
| 14 | 219 | 33.0 | 6.0 | 9.4 | 12.7 | 36.4 | 3.4 | 4.5 | 19.4 | 2.7 | 131.7 |
| 15 | 394 | 65.0 | 19.5 | 29.9 | 28.3 | 68.2 | 4.7 | 20.4 | 36.7 | 28.6 | 35.5 |
| 16 | 211 | 1.0 | 0.0 | 0.0 | 0.0 | 22.5 | 0.5 | 75.3 | 3.6 | 3.7 | 3.5 |
| 17 | 749 | 6.5 | 1.3 | 0.0 | 2.0 | 0.3 | 1.0 | 0.3 | 0.3 | 0.0 | 0.0 |
| 18 | 249 | 13.5 | N/S | 22.6 | 5.6 | 25.7 | 1.4 | 0.9 | 1.7 | 17.2 | 68.9 |
| 19 | 274 | 1.5 | 7.0 | 14.3 | 36.8 | 230.8 | 11.6 | 16.6 | 26.3 | 47.0 | 137.9 |
| 20 | 120 | N/S | 0.0 | N/S | 0.0 | 49.0 | 9.0 | 6.3 | 0.0 | 0.7 | 3.0 |
| Delmarva (10-11 14-15, 18-19) | 1517 | 36.2 | 10.7 | 27.3 | 25.4 | 81.1 | 4.7 | 10.0 | 25.7 | 19.8 | 70.3 |
| 21 | 1650 | 2.0 | 0.4 | 0.4 | 1.5 | 0.0 | 0.2 | 1.5 | 0.0 | 3.0 | 5.5 |
| 22 | 312 | 9.0 | 0.4 | 1.5 | 9.7 | 4.7 | 0.3 | 0.8 | 0.3 | 6.3 | 13.8 |
| 23 | 714 | 64.0 | 4.2 | 5.8 | 18.2 | 54.6 | 29.1 | 20.8 | 15.1 | 49.2 | 72.1 |
| 24 | 476 | 21.3 | 0.5 | 0.7 | 4.3 | 7.0 | 1.3 | 11.3 | 2.5 | 19.7 | 0.7 |
| 25 | 648 | 32.5 | 0.3 | 0.2 | 0.5 | 2.5 | 29.0 | 4.0 | 2.5 | 3.9 | 5.3 |
| 26 | 188 | N/S | 0.0 | 0.7 | 5.6 | 17.2 | 70.0 | 24.0 | 10.5 | 25.8 | 48.7 |
| 27 | 451 | 8.0 | 2.9 | 1.7 | 5.6 | 14.6 | 17.8 | 17.7 | 6.5 | 45.1 | 165.3 |
| 28 | 149 | 0.0 | 1.5 | 6.5 | 2.5 | 0.0 | 8.5 | 81.3 | 1.9 | 26.8 | 70.8 |
| 29 | 1096 | 4.3 | 0.3 | 3.8 | 2.4 | 11.6 | 1.4 | 0.8 | 9.0 | 7.1 | 3.3 |
| 30 | 669 | 15.0 | 3.5 | 11.1 | 4.1 | 12.0 | 22.5 | 4.5 | 17.6 | 7.1 | 23.7 |
| 31 | 932 | 111.7 | 2.1 | 2.2 | 4.4 | 13.0 | 33.2 | 7.4 | 6.7 | 13.9 | 122.7 |
| 32 | 627 | 0.0 | 0.1 | 1.5 | 0.0 | 0.5 | 1.0 | 0.8 | 0.0 | 5.0 | 0.3 |
| 33 | 363 | 139.0 | 0.3 | 4.0 | 5.0 | 16.3 | 31.3 | 11.3 | 16.9 | 5.3 | 17.2 |
| 34 | 203 | N/S | 1.3 | 0.5 | 8.0 | 42.5 | 29.0 | 50.7 | 126.6 | 56.7 | 19.6 |
| 35 | 601 | 0.0 | 0.0 | 0.4 | 1.1 | 3.2 | 1.5 | 2.2 | 0.0 | 2.8 | 41.2 |
| 36 | 694 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| NY Bight (22-31 33-35) | 6802 | 39.4 | 1.5 | 3.3 | 5.3 | 15.4 | 18.9 | 10.9 | 11.6 | 17.5 | 47.4 |
| Mid Atlantic | 8427 | 38.8 | 2.7 | 7.8 | 9.1 | 27.1 | 16.1 | 10.6 | 14.3 | 17.7 | 51.0 |

Appendix 1, Table 4. (continued).

| Stratum | Area (sq mi) | YEAR | | | | | | | | | | HISTORIC | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 1986 | 1987 | 1988 | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | LOW | HIGH |
| 1 | 1163 | 0.0 | 0.7 | 0.0 | N/S | N/S | N/S | N/S | N/S | N/S | N/S | 0.0 | 20.6 |
| 2 | 175 | 0.0 | 1.0 | 1.7 | N/S | N/S | N/S | N/S | N/S | N/S | N/S | 0.0 | 34.5 |
| 3 | 126 | 0.0 | 0.0 | 0.7 | N/S | N/S | N/S | N/S | N/S | N/S | N/S | 0.0 | 756.0 |
| 4 | 117 | 0.0 | 0.0 | 4.3 | N/S | N/S | N/S | N/S | N/S | N/S | N/S | 0.0 | 11.5 |
| 5 | 453 | 0.0 | 0.0 | 0.0 | N/S | N/S | N/S | N/S | N/S | N/S | N/S | 0.0 | 13.3 |
| 6 | 62 | 9.2 | 0.0 | 3.3 | 62.0 | 3.0 | 59.2 | 6.6 | 352.4 | 12.6 | 40.4 | 0.0 | 352.4 |
| 7 | 46 | 0.8 | 0.2 | 2.8 | 0.2 | 81.7 | 7.6 | 0.8 | 101.0 | 14.2 | 76.6 | 0.0 | 101.0 |
| 8 | 74 | 0.0 | 0.0 | 2.3 | 0.0 | N/S | N/S | N/S | N/S | N/S | N/S | 0.0 | 2.3 |
| VA-NC (6-7) | 108 | 5.6 | 0.1 | 3.1 | 35.7 | 36.5 | 37.2 | 4.1 | 245.3 | 13.3 | 55.8 | 0.0 | 245.3 |
| 9 | 2171 | 5.8 | 7.3 | 3.7 | N/S | N/S | N/S | N/S | N/S | N/S | N/S | 0.5 | 67.6 |
| 10 | 152 | 181.1 | 42.8 | 38.0 | 122.6 | 10.5 | 150.5 | 45.4 | 522.4 | 17.5 | 150.9 | 2.6 | 522.4 |
| 11 | 229 | 225.6 | 47.3 | 31.6 | 44.5 | 20.8 | 111.9 | 55.9 | 777.5 | 88.5 | 136.6 | 1.0 | 777.5 |
| 12 | 204 | 0.8 | 1.0 | 7.3 | 0.8 | N/S | N/S | N/S | N/S | N/S | N/S | 0.0 | 7.3 |
| 13 | 1127 | 0.3 | 0.3 | 11.3 | N/S | N/S | N/S | N/S | N/S | N/S | N/S | 0.0 | 49.8 |
| 14 | 219 | 128.7 | 112.3 | 98.4 | 102.2 | 60.7 | 12.0 | 5.8 | 130.4 | 9.3 | 102.6 | 2.7 | 131.7 |
| 15 | 394 | 101.4 | 47.8 | 83.9 | 118.3 | 14.6 | 49.8 | 16.1 | 528.0 | 163.8 | 163.1 | 4.7 | 528.0 |
| 16 | 211 | 1.1 | 0.6 | 3.1 | 1.8 | N/S | N/S | N/S | N/S | N/S | N/S | 0.0 | 75.3 |
| 17 | 749 | 9.0 | 9.0 | 0.7 | N/S | N/S | N/S | N/S | N/S | N/S | N/S | 0.0 | 9.0 |
| 18 | 249 | 61.7 | 51.2 | 101.8 | 133.4 | 7.9 | 0.8 | 1.9 | 28.0 | 13.2 | 17.7 | 0.8 | 133.4 |
| 19 | 274 | 89.8 | 24.7 | 80.8 | 147.8 | 53.9 | 37.6 | 14.4 | 297.9 | 67.7 | 56.4 | 1.5 | 297.9 |
| 20 | 120 | 1.0 | 0.7 | 0.7 | 0.7 | N/S | N/S | N/S | N/S | N/S | N/S | 0.0 | 49.0 |
| Delmarva (10-11 14-15, 18-19) | 1517 | 123.5 | 52.9 | 75.9 | 113.1 | 27.7 | 53.5 | 20.9 | 384.1 | 73.4 | 106.0 | 4.7 | 384.1 |
| 21 | 1650 | 0.0 | 4.5 | 2.0 | N/S | N/S | N/S | N/S | N/S | N/S | N/S | 0.0 | 5.5 |
| 22 | 312 | 17.1 | 95.1 | 74.3 | 69.5 | 10.7 | 6.5 | 3.9 | 53.1 | 20.6 | 15.5 | 0.3 | 95.1 |
| 23 | 714 | 109.0 | 109.6 | 100.2 | 406.9 | 326.1 | 74.3 | 25.9 | 82.2 | 238.8 | 141.1 | 4.2 | 406.9 |
| 24 | 476 | 0.3 | 0.3 | 23.2 | 23.0 | 1.2 | 9.3 | 0.7 | 74.0 | 552.8 | 266.8 | 0.3 | 552.8 |
| 25 | 648 | 4.8 | 60.8 | 33.0 | 40.0 | 2.3 | 2.0 | 14.0 | 14.5 | 0.3 | 3.5 | 0.2 | 60.8 |
| 26 | 188 | 17.2 | 390.6 | 41.2 | 183.4 | 6.2 | 99.7 | 222.6 | 14.5 | 15.3 | 31.4 | 0.0 | 390.6 |
| 27 | 451 | 124.6 | 286.6 | 349.7 | 984.9 | 571.9 | 44.7 | 30.8 | 125.7 | 185.9 | 73.5 | 1.7 | 984.9 |
| 28 | 149 | 2.0 | 13.5 | 40.9 | 70.5 | 36.2 | 9.7 | 3.8 | 170.0 | 244.2 | 139.3 | 0.0 | 244.2 |
| 29 | 1096 | 33.0 | 13.2 | 3.5 | 10.3 | 30.2 | 2.7 | 0.5 | 12.2 | 6.3 | 7.2 | 0.3 | 33.0 |
| 30 | 669 | 52.2 | 111.2 | 101.5 | 97.9 | 43.4 | 19.5 | 10.0 | 56.1 | 17.9 | 20.0 | 3.5 | 111.2 |
| 31 | 932 | 82.7 | 117.8 | 127.1 | 210.9 | 261.0 | 34.8 | 27.0 | 62.4 | 93.0 | 68.0 | 2.1 | 261.0 |
| 32 | 627 | 0.0 | 0.0 | 7.8 | 6.3 | N/S | N/S | N/S | N/S | N/S | N/S | 0.0 | 7.8 |
| 33 | 363 | 21.1 | 179.2 | 16.5 | 2.0 | 21.7 | 1.7 | 1.4 | 4.4 | 33.0 | 5.6 | 0.3 | 179.2 |
| 34 | 203 | 133.1 | 62.3 | 55.7 | 37.8 | 30.7 | 1.5 | 5.8 | 1.6 | 35.7 | 12.4 | 0.5 | 133.1 |
| 35 | 601 | 54.3 | 23.4 | 16.6 | 44.7 | 2.6 | 0.2 | 1.5 | 2.1 | 10.6 | 14.5 | 0.0 | 54.3 |
| 36 | 694 | 0.0 | 0.0 | 0.5 | 0.0 | N/S | N/S | N/S | N/S | N/S | N/S | 0.0 | 0.5 |
| NY Bight (22-31 33-35) | 6802 | 53.2 | 94.4 | 75.9 | 168.6 | 121.1 | 22.2 | 17.7 | 46.6 | 102.1 | 57.7 | 1.5 | 168.6 |
| Mid Atlantic | 8427 | 65.2 | 85.8 | 74.9 | 156.9 | 103.2 | 28.0 | 18.1 | 109.9 | 95.8 | 66.4 | 2.7 | 156.9 |

N/S = not sampled.
- = not calculated.

Appendix 1, Table 5. Standardized mean number of harvestable-size [>70 mm shell height] sea scallops per tow by stratum, and standardized stratified mean number of harvestable-size sea scallops per tow by area and region, from the NEFSC sea scallop research vessel surveys in the Mid-Atlantic, 1975, 1977-1995.

| Stratum | Area (sq mi) | YEAR | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 1975 | 1977 | 1978 | 1979 | 1980 | 1981 | 1982 | 1983 | 1984 | 1985 |
| 1 | 1163 | 0.0 | 0.0 | 4.8 | N/S | N/S | N/S | 0.0 | 0.0 | 0.0 | 3.3 |
| 2 | 175 | 0.5 | N/S | 1.2 | N/S | 0.0 | 0.0 | 0.5 | 5.5 | 0.0 | 0.0 |
| 3 | 126 | 177.0 | 1.5 | 1.3 | N/S | 0.5 | 0.5 | 0.0 | 0.0 | 0.0 | 1.0 |
| 4 | 117 | 0.0 | 0.0 | 0.0 | N/S | N/S | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 5 | 453 | 0.0 | 0.0 | 9.3 | 0.8 | 0.0 | 0.0 | 0.0 | 4.3 | 0.0 | 0.7 |
| 6 | 62 | N/S | N/S | 72.0 | 31.5 | 55.0 | 11.0 | 4.3 | 14.5 | 10.4 | 10.0 |
| 7 | 46 | N/S | 10.0 | 21.0 | 11.0 | 17.5 | 3.0 | 3.0 | 8.0 | 20.3 | 3.8 |
| 8 | 74 | N/S | N/S | N/S | 18.0 | 0.0 | 0.0 | 1.5 | 2.0 | 3.0 | 0.0 |
| VA-NC (6-7) | 108 | N/S | 10.0 | 50.3 | 22.8 | 39.0 | 7.6 | 3.7 | 11.7 | 14.6 | 7.4 |
| 9 | 2171 | 8.4 | 10.3 | 1.0 | 62.4 | 8.4 | 5.4 | 6.4 | 2.0 | 4.3 | 5.8 |
| 10 | 152 | 11.5 | N/S | 95.6 | 85.4 | 80.0 | 20.8 | 13.4 | 15.3 | 12.3 | 14.0 |
| 11 | 229 | 7.7 | 51.0 | 60.4 | 60.0 | 42.1 | 13.8 | 13.5 | 10.4 | 9.6 | 18.0 |
| 12 | 204 | 0.0 | 2.0 | 0.5 | 0.0 | 0.5 | 2.5 | 3.7 | 4.0 | 4.8 | 0.8 |
| 13 | 1127 | 32.5 | 45.0 | 33.8 | 3.8 | 3.6 | 0.6 | 0.3 | 0.0 | 0.3 | 0.8 |
| 14 | 219 | 39.0 | 42.0 | 59.4 | 41.0 | 25.3 | 10.3 | 19.3 | 13.8 | 15.5 | 28.0 |
| 15 | 394 | 48.0 | 41.0 | 97.1 | 85.2 | 29.7 | 17.0 | 20.0 | 21.1 | 24.7 | 27.3 |
| 16 | 211 | 0.0 | 13.0 | 0.0 | 0.0 | 0.5 | 1.0 | 21.7 | 11.6 | 4.3 | 2.4 |
| 17 | 749 | 6.5 | 11.3 | 1.5 | 2.7 | 6.0 | 1.3 | 1.0 | 0.5 | 1.8 | 1.3 |
| 18 | 249 | 9.0 | N/S | 85.4 | 43.1 | 15.0 | 9.4 | 9.9 | 6.0 | 25.0 | 15.8 |
| 19 | 274 | 12.0 | 58.5 | 51.8 | 65.4 | 42.2 | 14.6 | 31.0 | 27.1 | 21.0 | 99.6 |
| 20 | 120 | N/S | 0.0 | N/S | 3.0 | 1.0 | 1.0 | 1.7 | 0.0 | 1.3 | 2.7 |
| Delmarva (10-11 14-15, 18-19) | 1517 | 24.1 | 47.5 | 75.9 | 64.5 | 35.8 | 14.3 | 18.6 | 16.4 | 19.2 | 35.8 |
| 21 | 1650 | 0.8 | 0.5 | 0.0 | 7.8 | 0.8 | 1.2 | 2.5 | 0.5 | 3.8 | 3.8 |
| 22 | 312 | 2.0 | 72.8 | 19.6 | 7.2 | 5.5 | 2.8 | 3.9 | 4.6 | 4.1 | 7.5 |
| 23 | 714 | 35.0 | 95.7 | 100.6 | 48.1 | 22.8 | 34.7 | 12.1 | 10.8 | 15.3 | 23.9 |
| 24 | 476 | 67.0 | 1.8 | 7.3 | 2.0 | 2.7 | 2.3 | 8.8 | 5.0 | 10.2 | 7.3 |
| 25 | 648 | 8.5 | 18.8 | 9.0 | 16.5 | 6.0 | 10.6 | 10.3 | 3.7 | 5.4 | 13.8 |
| 26 | 188 | N/S | 60.0 | 41.9 | 13.4 | 24.9 | 19.8 | 80.0 | 14.9 | 39.1 | 23.5 |
| 27 | 451 | 14.0 | 161.6 | 92.8 | 26.8 | 20.6 | 17.3 | 20.6 | 14.7 | 18.4 | 66.8 |
| 28 | 149 | 0.0 | 28.5 | 27.5 | 0.0 | 0.5 | 10.0 | 37.0 | 8.7 | 12.7 | 36.7 |
| 29 | 1096 | 4.5 | 28.8 | 13.6 | 12.5 | 12.4 | 4.6 | 1.5 | 10.7 | 16.3 | 13.0 |
| 30 | 669 | 8.0 | 102.5 | 95.2 | 12.7 | 23.6 | 14.8 | 25.5 | 13.6 | 14.8 | 28.3 |
| 31 | 932 | 111.1 | 68.0 | 93.2 | 15.6 | 20.0 | 20.0 | 39.0 | 23.2 | 20.2 | 35.1 |
| 32 | 627 | 0.0 | 2.0 | 1.0 | 1.5 | 0.5 | 0.0 | 1.0 | 0.8 | 8.0 | 0.5 |
| 33 | 363 | 101.0 | 25.0 | 84.5 | 20.5 | 24.0 | 94.8 | 50.0 | 30.4 | 18.5 | 50.0 |
| 34 | 203 | N/S | 101.0 | 72.5 | 36.0 | 28.0 | 64.3 | 72.4 | 83.4 | 93.4 | 55.2 |
| 35 | 601 | 4.0 | 0.0 | 10.9 | 9.6 | 6.2 | 2.3 | 6.8 | 0.0 | 24.4 | 71.7 |
| 36 | 694 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| NY Bight (22-31 33-35) | 6802 | 34.7 | 56.7 | 52.7 | 17.6 | 15.2 | 19.0 | 20.9 | 14.0 | 18.4 | 30.9 |
| Mid Atlantic | 8427 | 32.6 | 55.1 | 56.8 | 26.2 | 19.2 | 18.0 | 20.3 | 14.4 | 18.5 | 31.5 |

N/S = not sampled.
- = not calculated.

Appendix 1, Table 5. (continued).

| Stratum | Area (sq mi) | YEAR | | | | | | | | | | HISTORIC | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 1986 | 1987 | 1988 | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | LOW | HIGH |
| 1 | 1163 | 0.0 | 0.0 | 0.0 | N/S | N/S | N/S | N/S | N/S | N/S | N/S | 0.0 | 4.8 |
| 2 | 175 | 0.0 | 0.0 | 0.0 | N/S | N/S | N/S | N/S | N/S | N/S | N/S | 0.0 | 5.5 |
| 3 | 126 | 0.0 | 0.0 | 0.0 | N/S | N/S | N/S | N/S | N/S | N/S | N/S | 0.0 | 177.0 |
| 4 | 117 | 0.0 | 0.0 | 0.5 | N/S | N/S | N/S | N/S | N/S | N/S | N/S | 0.0 | 0.5 |
| 5 | 453 | 0.0 | 0.0 | 0.0 | N/S | N/S | N/S | N/S | N/S | N/S | N/S | 0.0 | 9.3 |
| 6 | 62 | 1.4 | 0.4 | 1.2 | 9.4 | 32.3 | 33.4 | 44.8 | 87.6 | 148.8 | 0.0 | 0.0 | 148.8 |
| 7 | 46 | 2.2 | 4.4 | 24.3 | 1.2 | 175.0 | 30.0 | 8.2 | 20.6 | 141.0 | 27.4 | 1.2 | 175.0 |
| 8 | 74 | 0.0 | 0.0 | 1.0 | 0.0 | N/S | N/S | N/S | N/S | N/S | N/S | 0.0 | 18.0 |
| VA-NC (6-7) | 108 | 1.7 | 2.1 | 11.0 | 5.9 | 93.1 | 32.0 | 29.2 | 59.1 | 145.5 | 11.7 | 1.7 | 145.5 |
| 9 | 2171 | 2.0 | 6.8 | 3.3 | N/S | N/S | N/S | N/S | N/S | N/S | N/S | 1.0 | 62.4 |
| 10 | 152 | 47.0 | 90.0 | 35.4 | 54.4 | 29.1 | 46.4 | 34.4 | 27.5 | 167.3 | 38.8 | 11.5 | 167.3 |
| 11 | 229 | 21.1 | 58.5 | 30.6 | 45.0 | 33.5 | 15.6 | 26.0 | 26.6 | 334.4 | 120.0 | 7.7 | 334.4 |
| 12 | 204 | 0.8 | 0.5 | 1.5 | 0.0 | N/S | N/S | N/S | N/S | N/S | N/S | 0.0 | 4.8 |
| 13 | 1127 | 0.0 | 0.7 | 9.8 | N/S | N/S | N/S | N/S | N/S | N/S | N/S | 0.0 | 45.0 |
| 14 | 219 | 139.2 | 83.5 | 43.7 | 46.0 | 74.3 | 16.8 | 9.9 | 7.3 | 43.8 | 45.1 | 7.3 | 139.2 |
| 15 | 394 | 93.2 | 41.1 | 30.4 | 193.4 | 72.7 | 40.8 | 19.3 | 31.3 | 258.5 | 185.8 | 17.0 | 258.5 |
| 16 | 211 | 3.9 | 2.9 | 2.3 | 1.9 | N/S | N/S | N/S | N/S | N/S | N/S | 0.0 | 21.7 |
| 17 | 749 | 2.7 | 10.0 | 0.0 | N/S | N/S | N/S | N/S | N/S | N/S | N/S | 0.0 | 11.3 |
| 18 | 249 | 65.5 | 40.5 | 47.8 | 91.3 | 90.2 | 13.8 | 14.1 | 7.6 | 26.2 | 11.8 | 6.0 | 91.3 |
| 19 | 274 | 113.7 | 67.6 | 49.1 | 72.6 | 157.7 | 38.6 | 15.0 | 15.8 | 144.3 | 110.6 | 12.0 | 157.7 |
| 20 | 120 | 5.0 | 3.7 | 0.3 | 0.3 | N/S | N/S | N/S | N/S | N/S | N/S | 0.0 | 5.0 |
| Delmarva (10-11 14-15, 18-19) | 1517 | 83.5 | 59.4 | 39.1 | 97.2 | 80.9 | 29.3 | 18.8 | 21.1 | 171.0 | 98.7 | 14.3 | 171.0 |
| 21 | 1650 | 0.3 | 0.5 | 3.3 | N/S | N/S | N/S | N/S | N/S | N/S | N/S | 0.0 | 7.8 |
| 22 | 312 | 8.8 | 23.0 | 62.6 | 32.9 | 24.3 | 8.9 | 6.4 | 9.6 | 32.8 | 34.0 | 2.0 | 72.8 |
| 23 | 714 | 76.6 | 89.6 | 257.7 | 167.4 | 372.8 | 55.3 | 44.4 | 38.1 | 97.7 | 344.3 | 10.8 | 372.8 |
| 24 | 476 | 1.0 | 0.5 | 0.7 | 3.7 | 5.6 | 4.0 | 1.3 | 8.7 | 30.2 | 232.0 | 0.5 | 232.0 |
| 25 | 648 | 10.0 | 10.3 | 21.5 | 14.8 | 1.7 | 4.8 | 31.0 | 12.8 | 11.5 | 14.0 | 1.7 | 31.0 |
| 26 | 188 | 48.7 | 33.1 | 145.4 | 72.9 | 18.6 | 16.4 | 63.4 | 38.7 | 39.1 | 51.8 | 13.4 | 145.4 |
| 27 | 451 | 141.4 | 86.1 | 261.9 | 365.8 | 332.0 | 231.2 | 51.1 | 74.9 | 174.7 | 164.7 | 14.0 | 365.8 |
| 28 | 149 | 17.0 | 23.6 | 11.5 | 17.4 | 65.1 | 71.0 | 8.0 | 17.2 | 27.7 | 294.9 | 0.0 | 294.9 |
| 29 | 1096 | 17.2 | 9.3 | 16.3 | 12.0 | 16.2 | 31.3 | 2.0 | 9.7 | 7.5 | 5.0 | 1.5 | 31.3 |
| 30 | 669 | 31.9 | 85.6 | 139.1 | 94.3 | 45.9 | 19.7 | 24.5 | 22.1 | 50.0 | 77.6 | 8.0 | 139.1 |
| 31 | 932 | 112.4 | 72.7 | 164.7 | 118.2 | 131.2 | 140.4 | 51.2 | 46.8 | 74.8 | 128.0 | 15.6 | 164.7 |
| 32 | 627 | 2.3 | 0.0 | 0.3 | 1.8 | N/S | N/S | N/S | N/S | N/S | N/S | 0.0 | 8.0 |
| 33 | 363 | 35.4 | 62.3 | 46.7 | 12.6 | 13.5 | 28.4 | 6.7 | 6.3 | 6.6 | 58.9 | 6.3 | 101.0 |
| 34 | 203 | 72.4 | 96.9 | 146.9 | 101.0 | 47.9 | 42.4 | 21.9 | 9.6 | 15.3 | 46.4 | 9.6 | 146.9 |
| 35 | 601 | 38.2 | 14.9 | 12.2 | 37.1 | 8.6 | 5.0 | 13.4 | 6.5 | 4.0 | 17.1 | 0.0 | 71.7 |
| 36 | 694 | 0.0 | 0.0 | 0.0 | 0.0 | N/S | N/S | N/S | N/S | N/S | N/S | 0.0 | 0.0 |
| NYBight (22-31 33-35) | 6802 | 49.3 | 46.0 | 100.5 | 81.8 | 92.8 | 53.7 | 25.3 | 24.0 | 45.8 | 106.1 | 14.0 | 106.1 |
| Mid Atlantic | 8427 | 54.8 | 47.9 | 88.3 | 83.6 | 90.6 | 49.0 | 24.2 | 23.8 | 69.6 | 103.5 | 14.4 | 103.5 |

N/S = not sampled.
- = not calculated.

Appendix 1, Table 6. Standardized mean meat weight [g] of sea scallops per tow by stratum, and stratified mean weight of sea scallops per tow by area and region, from the NEFSC sea scallop research vessel surveys in the Mid-Atlantic, 1975, 1977-1995.

| Stratum | Area (sq mi) | YEAR | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 1975 | 1977 | 1978 | 1979 | 1980 | 1981 | 1982 | 1983 | 1984 | 1985 |
| 1 | 1163 | 0 | 0 | 100 | N/S | N/S | N/S | 4 | 0 | 0 | 40 |
| 2 | 175 | 12 | N/S | 39 | N/S | 1 | 0 | 16 | 146 | 0 | 0 |
| 3 | 126 | 4943 | 18 | 19 | N/S | 5 | 14 | 0 | 4 | 2 | 16 |
| 4 | 117 | 30 | 0 | 0 | N/S | N/S | 1 | 2 | 0 | 1 | 0 |
| 5 | 453 | 0 | 1 | 137 | 10 | 0 | 0 | 0 | 208 | 0 | 30 |
| 6 | 62 | N/S | N/S | 1530 | 554 | 932 | 309 | 131 | 538 | 206 | 333 |
| 7 | 46 | N/S | 227 | 660 | 218 | 171 | 61 | 102 | 349 | 345 | 93 |
| 8 | 74 | N/S | N/S | N/S | 278 | 0 | 0 | 21 | 46 | 86 | 0 |
| VA-NC (6-7) | 108 | N/S | 227 | 1159 | 411 | 608 | 204 | 119 | 458 | 265 | 231 |
| 9 | 2171 | 145 | 266 | 19 | 1045 | 150 | 168 | 147 | 82 | 110 | 191 |
| 10 | 152 | 472 | N/S | 1834 | 1225 | 1127 | 448 | 331 | 456 | 347 | 380 |
| 11 | 229 | 203 | 856 | 1226 | 924 | 743 | 407 | 435 | 468 | 211 | 408 |
| 12 | 204 | 0 | 34 | 9 | 0 | 14 | 39 | 105 | 137 | 76 | 10 |
| 13 | 1127 | 467 | 1411 | 1142 | 142 | 116 | 24 | 7 | 0 | 3 | 11 |
| 14 | 219 | 767 | 1102 | 1634 | 888 | 700 | 205 | 446 | 490 | 325 | 444 |
| 15 | 394 | 1191 | 966 | 2178 | 1133 | 711 | 404 | 551 | 569 | 478 | 552 |
| 16 | 211 | 5 | 279 | 0 | 0 | 39 | 13 | 455 | 188 | 76 | 46 |
| 17 | 749 | 346 | 288 | 27 | 40 | 230 | 72 | 48 | 17 | 87 | 35 |
| 18 | 249 | 169 | N/S | 1781 | 934 | 398 | 207 | 346 | 205 | 547 | 286 |
| 19 | 274 | 160 | 849 | 1158 | 845 | 1282 | 301 | 573 | 502 | 434 | 1271 |
| 20 | 120 | N/S | 0 | N/S | 39 | 63 | 24 | 28 | 0 | 18 | 68 |
| Delmarva (10-11 14-15, 18-19) | 1517 | 555 | 941 | 1672 | 991 | 808 | 329 | 467 | 459 | 406 | 584 |
| 21 | 1650 | 14 | 10 | 1 | 297 | 17 | 25 | 61 | 18 | 138 | 82 |
| 22 | 312 | 59 | 1404 | 506 | 194 | 137 | 72 | 109 | 130 | 177 | 165 |
| 23 | 714 | 632 | 1707 | 2269 | 1086 | 571 | 528 | 373 | 296 | 379 | 545 |
| 24 | 476 | 1282 | 19 | 72 | 23 | 39 | 25 | 105 | 85 | 178 | 121 |
| 25 | 648 | 342 | 501 | 233 | 566 | 176 | 269 | 210 | 75 | 144 | 294 |
| 26 | 188 | N/S | 1208 | 1017 | 350 | 630 | 494 | 908 | 302 | 641 | 410 |
| 27 | 451 | 315 | 2425 | 1797 | 561 | 473 | 270 | 387 | 420 | 419 | 1163 |
| 28 | 149 | 0 | 547 | 249 | 2 | 3 | 107 | 541 | 110 | 237 | 574 |
| 29 | 1096 | 107 | 723 | 480 | 380 | 415 | 140 | 45 | 271 | 287 | 265 |
| 30 | 669 | 237 | 1812 | 2135 | 302 | 626 | 382 | 442 | 395 | 315 | 472 |
| 31 | 932 | 1912 | 1206 | 1874 | 375 | 428 | 408 | 567 | 509 | 315 | 714 |
| 32 | 627 | 0 | 27 | 31 | 17 | 5 | 5 | 17 | 14 | 123 | 8 |
| 33 | 363 | 2751 | 533 | 2134 | 472 | 510 | 1100 | 865 | 611 | 245 | 646 |
| 34 | 203 | N/S | 1401 | 1402 | 732 | 536 | 793 | 1134 | 1445 | 1192 | 780 |
| 35 | 601 | 163 | 0 | 192 | 271 | 149 | 27 | 87 | 0 | 279 | 936 |
| 36 | 694 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| NY Bight (22-31 33-35) | 6802 | 717 | 1029 | 1158 | 439 | 378 | 321 | 350 | 317 | 318 | 530 |
| Mid Atlantic | 8427 | 686 | 1012 | 1251 | 538 | 458 | 321 | 368 | 344 | 333 | 536 |

N/S = not sampled.
- = not calculated.

Appendix 1, Table 6. (continued).

| Stratum | Area (sq mi) | YEAR 1986 | 1987 | 1988 | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | HISTORIC LOW | HIGH |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 1163 | 0 | 2 | 0 | N/S | N/S | N/S | N/S | N/S | N/S | N/S | 0 | 100 |
| 2 | 175 | 0 | 4 | 6 | N/S | N/S | N/S | N/S | N/S | N/S | N/S | 0 | 146 |
| 3 | 126 | 0 | 0 | 2 | N/S | N/S | N/S | N/S | N/S | N/S | N/S | 0 | 4943 |
| 4 | 117 | 0 | 0 | 18 | N/S | N/S | N/S | N/S | N/S | N/S | N/S | 0 | 30 |
| 5 | 453 | 0 | 0 | 0 | N/S | N/S | N/S | N/S | N/S | N/S | N/S | 0 | 208 |
| 6 | 62 | 70 | 16 | 33 | 344 | 459 | 714 | 630 | 1971 | 1430 | 92 | 16 | 1971 |
| 7 | 46 | 46 | 61 | 476 | 13 | 1617 | 319 | 92 | 494 | 1235 | 483 | 13 | 1617 |
| 8 | 74 | 0 | 0 | 23 | 0 | N/S | N/S | N/S | N/S | N/S | N/S | 0 | 278 |
| VA-NC (6-7) | 108 | 60 | 35 | 222 | 203 | 952 | 546 | 401 | 1342 | 1347 | 259 | 35 | 1347 |
| 9 | 2171 | 52 | 109 | 107 | N/S | N/S | N/S | N/S | N/S | N/S | N/S | 19 | 1045 |
| 10 | 152 | 1167 | 1186 | 766 | 967 | 424 | 1013 | 552 | 1722 | 1446 | 966 | 331 | 1834 |
| 11 | 229 | 883 | 830 | 637 | 718 | 412 | 627 | 388 | 1975 | 2822 | 1525 | 203 | 2822 |
| 12 | 204 | 9 | 7 | 38 | 1 | N/S | N/S | N/S | N/S | N/S | N/S | 0 | 137 |
| 13 | 1127 | 1 | 15 | 241 | N/S | N/S | N/S | N/S | N/S | N/S | N/S | 0 | 1411 |
| 14 | 219 | 1824 | 1372 | 887 | 917 | 990 | 390 | 246 | 463 | 488 | 1032 | 205 | 1824 |
| 15 | 394 | 1376 | 636 | 615 | 2246 | 829 | 805 | 377 | 1859 | 2238 | 2208 | 377 | 2246 |
| 16 | 211 | 38 | 31 | 53 | 21 | N/S | N/S | N/S | N/S | N/S | N/S | 0 | 455 |
| 17 | 749 | 47 | 190 | 0 | N/S | N/S | N/S | N/S | N/S | N/S | N/S | 0 | 346 |
| 18 | 249 | 980 | 680 | 911 | 1385 | 1028 | 325 | 353 | 250 | 479 | 332 | 169 | 1781 |
| 19 | 274 | 1479 | 999 | 875 | 1016 | 1652 | 654 | 349 | 1039 | 1499 | 1275 | 160 | 1652 |
| 20 | 120 | 48 | 41 | 2 | 6 | N/S | N/S | N/S | N/S | N/S | N/S | 0 | 68 |
| Delmarva (10-11 14-15, 18-19) | 1517 | 1299 | 899 | 768 | 1332 | 930 | 633 | 368 | 1249 | 1572 | 1334 | 329 | 1672 |
| 21 | 1650 | 10 | 19 | 63 | N/S | N/S | N/S | N/S | N/S | N/S | N/S | 1 | 297 |
| 22 | 312 | 212 | 583 | 1128 | 714 | 402 | 257 | 143 | 294 | 545 | 596 | 59 | 1404 |
| 23 | 714 | 1100 | 1347 | 3053 | 2347 | 4016 | 865 | 633 | 593 | 1275 | 3304 | 296 | 4016 |
| 24 | 476 | 9 | 10 | 22 | 71 | 51 | 79 | 14 | 248 | 918 | 2702 | 9 | 2702 |
| 25 | 648 | 324 | 348 | 419 | 367 | 50 | 114 | 629 | 223 | 290 | 347 | 50 | 629 |
| 26 | 188 | 756 | 1190 | 1778 | 1208 | 334 | 593 | 1076 | 501 | 470 | 734 | 302 | 1778 |
| 27 | 451 | 1705 | 1407 | 3294 | 4301 | 4386 | 2333 | 670 | 938 | 1669 | 1704 | 270 | 4386 |
| 28 | 149 | 174 | 286 | 227 | 347 | 677 | 717 | 109 | 544 | 502 | 2813 | 0 | 2813 |
| 29 | 1096 | 473 | 174 | 572 | 343 | 521 | 679 | 94 | 190 | 138 | 91 | 45 | 723 |
| 30 | 669 | 652 | 1286 | 1946 | 1402 | 751 | 446 | 432 | 561 | 597 | 928 | 237 | 2135 |
| 31 | 932 | 1493 | 1060 | 2007 | 1501 | 1886 | 1463 | 739 | 637 | 869 | 1294 | 315 | 2007 |
| 32 | 627 | 33 | 0 | 8 | 32 | N/S | N/S | N/S | N/S | N/S | N/S | 0 | 123 |
| 33 | 363 | 595 | 1226 | 719 | 216 | 330 | 530 | 152 | 149 | 212 | 741 | 149 | 2751 |
| 34 | 203 | 1428 | 1286 | 1818 | 1268 | 790 | 723 | 489 | 210 | 316 | 592 | 210 | 1818 |
| 35 | 601 | 700 | 268 | 226 | 594 | 135 | 164 | 213 | 152 | 100 | 231 | 0 | 936 |
| 36 | 694 | 0 | 0 | 0 | 0 | N/S | N/S | N/S | N/S | N/S | N/S | 0 | 0 |
| NY Bight (22-31 33-35) | 6802 | 776 | 761 | 1357 | 1146 | 1232 | 727 | 411 | 403 | 615 | 1152 | 317 | 1357 |
| Mid Atlantic | 842 | 861 | 777 | 1237 | 1167 | 1174 | 708 | 403 | 567 | 797 | 1173 | 321 | 1251 |

N/S = not sampled.
- = not calculated.

Appendix 1, Table 7. Standardized mean number of sea scallops per tow by stratum, and standardized stratified mean number of sea scallops per tow by area and region, from the NEFSC sea scallop research vessel surveys on Georges Bank,1975, 1977-1995.

| Stratum | Area (sq mi) | YEAR | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 1975 | 1977 | 1978 | 1979 | 1980 | 1981 | 1982 | 1983 | 1984 | 1985 |
| 45 | 392 | 34.3 | 0.0 | 0.0 | 0.0 | N/S | 0.0 | 0.0 | 17.0 | 0.0 | 11.3 |
| 46 | 416 | 41.0 | N/S | 20.3 | 9.0 | N/S | 84.4 | 12.7 | 0.5 | 19.7 | 27.8 |
| 47 | 871 | 41.8 | 20.8 | 16.7 | 50.2 | 27.3 | 43.9 | 33.7 | 48.7 | 35.0 | 87.3 |
| 48 | 1109 | 24.5 | 0.0 | 0.0 | 0.3 | 0.0 | 2.3 | 45.0 | 12.3 | 33.3 | 25.3 |
| 49 | 244 | 83.3 | 213.8 | 123.6 | 178.0 | 174.4 | 50.2 | 24.5 | 34.7 | 34.9 | 48.3 |
| 50 | 150 | 849.6 | 362.8 | 323.8 | 1171.3 | 1133.6 | 177.2 | 1787.4 | 259.9 | 127.5 | 318.4 |
| 51 | 139 | 18.5 | N/S | 151.0 | 20.4 | 20.3 | 147.1 | 3158.0 | 673.6 | 63.1 | 82.4 |
| 52 | 307 | 8.8 | 3.8 | 4.7 | 4.0 | 4.0 | 28.2 | 90.2 | 34.0 | 4.8 | 243.3 |
| 53 | 268 | 3.0 | 141.3 | 173.0 | 32.7 | N/S | 35.6 | 27.2 | 33.7 | 20.0 | 35.1 |
| 54 | 278 | 65.3 | 262.0 | 12.9 | 31.2 | 50.0 | 24.7 | 94.0 | 52.2 | 20.2 | 32.1 |
| 55 | 364 | 6.3 | 0.5 | 0.8 | 1.4 | 12.1 | 0.3 | 4.0 | 26.2 | 20.8 | 39.9 |
| 56 | 209 | 0.0 | 9.0 | N/S | 3.5 | 0.5 | 3.0 | 0.0 | 2.3 | 6.7 | 6.7 |
| South Channel (46-47, 49-55) | 3037 | 75.0 | 95.4 | 57.4 | 95.0 | 109.9 | 52.0 | 266.8 | 74.8 | 31.3 | 87.6 |
| 57 | 184 | N/S | 2.3 | 6.0 | 1.0 | 0.0 | 0.0 | 0.0 | 1.7 | 5.7 | 3.0 |
| 58 | 300 | 5.7 | 0.5 | 9.5 | 11.5 | 6.0 | 2.5 | 1.5 | 6.3 | 1.5 | 18.5 |
| 59 | 538 | 59.0 | 63.9 | 58.9 | 30.3 | 108.0 | 33.8 | 11.8 | 38.1 | 29.1 | 18.7 |
| 60 | 816 | 40.4 | 19.3 | 17.0 | 34.4 | 54.6 | 19.0 | 13.1 | 14.1 | 15.6 | 23.3 |
| SE Part (58-60) | 1654 | 40.2 | 30.4 | 29.3 | 28.9 | 63.2 | 20.8 | 10.6 | 20.5 | 17.5 | 20.9 |
| 61 | 576 | N/S | 54.3 | 153.3 | N/S | 29.3 | N/S | 11.4 | 11.0 | 18.3 | 20.5 |
| 62 | 701 | N/S | 157.3 | 242.6 | 141.6 | 287.5 | N/S | 66.2 | 105.0 | 105.1 | - |
| 621 | 547 | - | - | - | - | - | - | - | - | - | 83.7 |
| 622 | 154 | - | - | - | - | - | - | - | - | - | 222.0 |
| 63 | 694 | 77.4 | 208.7 | 416.8 | 370.3 | 1605.5 | 62.5 | 63.0 | 39.6 | 39.4 | - |
| 631 | 340 | - | - | - | - | - | - | - | - | - | 15.7 |
| 632 | 354 | - | - | - | - | - | - | - | - | - | 269.6 |
| 64 | 988 | 470.6 | 606.4 | 878.4 | 486.8 | 1117.0 | 970.0 | 237.5 | 156.4 | 1297.3 | 844.9 |
| 65 | 164 | 452.3 | 2217.3 | 1001.4 | 739.1 | 6513.3 | 1030.8 | 236.4 | 245.0 | 301.4 | - |
| 651 | 102 | - | - | - | - | - | - | - | - | - | 355.3 |
| 652 | 62 | - | - | - | - | - | - | - | - | - | 1574.8 |
| 66 | 266 | 259.8 | 1783.2 | 773.0 | 415.5 | 129.8 | 1214.1 | 297.8 | 219.9 | 332.9 | - |
| 661 | 117 | - | - | - | - | - | - | - | - | - | 198.0 |
| 662 | 149 | - | - | - | - | - | - | - | - | - | 276.9 |
| 71 | 146 | 129.0 | N/S | 1102.7 | 448.3 | 326.0 | 334.0 | 86.3 | 32.3 | 46.8 | 32.3 |
| 72 | 504 | 12.5 | N/S | N/S | 102.7 | 62.4 | N/S | 17.4 | 7.5 | 15.3 | 5.8 |
| 73 | 501 | 129.0 | N/S | N/S | 60.0 | 0.2 | N/S | 2.4 | 0.0 | 0.3 | 4.6 |
| 74 | 433 | 34.1 | 0.0 | N/S | 229.3 | 4.0 | N/S | 10.2 | 29.0 | 22.4 | 9.1 |
| USA N. Edge & Peak* | 2765 | - | - | - | - | - | - | - | - | - | 48.4 |
| USA Georges Bank** | 7456 | - | - | - | - | - | - | - | - | - | 58.3 |
| CANADA N. Edge & Peak* | 1707 | - | - | - | - | - | - | - | - | - | 646.3 |
| TOTAL N. Edge & Peak | 4472 | 219.7 | 450.9 | 550.6 | 329.9 | 809.4 | 683.1 | 106.2 | 85.3 | 347.8 | 276.7 |
| TOTAL Georges Bank | 9163 | 126.3 | 252.6 | 263.7 | 188.9 | 469.7 | 249.6 | 142.2 | 70.1 | 183.3 | 167.9 |

Appendix 1, Table 7. (continued).

| Stratum | Area (sq mi) | YEAR 1986 | 1987 | 1988 | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | HISTORIC LOW | HIGH |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 45 | 392 | 0.0 | 0.0 | 0.0 | 2.3 | N/S | N/S | N/S | N/S | N/S | N/S | 0.0 | 34.3 |
| 46 | 416 | 29.2 | 21.0 | 50.3 | 46.0 | 110.5 | 295.5 | 50.2 | 15.8 | 42.0 | 2.0 | 0.5 | 295.5 |
| 47 | 871 | N/S | 53.3 | 34.9 | 6.1 | 186.8 | 157.4 | 6.8 | 34.8 | 13.4 | 135.0 | 6.1 | 186.8 |
| 48 | 1109 | N/S | 1.7 | 0.6 | 6.3 | N/S | N/S | N/S | N/S | N/S | N/S | 0.0 | 45.0 |
| 49 | 244 | 43.0 | 73.1 | 6.7 | 5.1 | 900.2 | 3202.0 | 2398.1 | 34.8 | 65.0 | 148.8 | 5.1 | 3202.0 |
| 50 | 150 | 870.1 | 1135.9 | 150.6 | 94.2 | 1519.3 | 888.2 | 836.3 | 84.6 | 111.3 | 960.4 | 84.6 | 1787.4 |
| 51 | 139 | 481.3 | 610.6 | 378.3 | 275.3 | 1032.2 | 1534.2 | 1204.9 | 93.6 | 68.5 | 1061.6 | 18.5 | 3158.0 |
| 52 | 307 | 43.4 | 117.1 | 99.5 | 40.0 | 248.9 | 140.8 | 867.4 | 259.0 | 200.1 | 71.5 | 3.8 | 867.4 |
| 53 | 268 | 57.7 | 114.7 | 30.6 | 26.4 | 21.1 | 66.0 | 25.7 | 36.3 | 121.4 | 5.1 | 3.0 | 173.0 |
| 54 | 278 | 92.0 | 106.6 | 31.1 | 50.3 | 159.9 | 186.3 | 43.7 | 12.6 | 11.7 | 66.1 | 11.7 | 262.0 |
| 55 | 364 | N/S | 7.1 | 89.4 | 1.2 | 31.4 | 18.3 | 22.3 | 5.4 | 6.7 | 9.9 | 0.3 | 89.4 |
| 56 | 209 | N/S | 0.0 | 13.0 | 8.0 | N/S | N/S | N/S | N/S | N/S | N/S | 0.0 | 13.0 |
| South Channel (46-47, 49-55) | 3037 | 152.3 | 140.7 | 68.5 | 36.8 | 308.7 | 496.3 | 394.6 | 54.6 | 56.3 | 161.9 | 31.3 | 496.3 |
| 57 | 184 | 3.0 | 1.0 | 7.3 | 2.7 | N/S | N/S | N/S | N/S | N/S | N/S | 0.0 | 7.3 |
| 58 | 300 | 35.3 | 20.9 | 3.8 | 3.5 | 1.1 | 2.3 | 2.5 | 6.4 | 1.9 | 5.6 | 0.5 | 35.3 |
| 59 | 538 | 40.5 | 27.2 | 34.9 | 69.0 | 15.9 | 49.9 | 38.6 | 18.8 | 37.7 | 37.3 | 11.8 | 108.0 |
| 60 | 816 | 60.6 | 101.5 | 11.2 | 25.1 | 9.4 | 32.3 | 36.0 | 9.3 | 32.3 | 28.3 | 9.3 | 101.5 |
| SE Part (58-60) | 1654 | 49.5 | 62.7 | 17.5 | 35.5 | 10.0 | 32.6 | 30.8 | 11.8 | 28.5 | 27.1 | 10.0 | 63.2 |
| 61 | 576 | 31.5 | 37.8 | 33.6 | N/S | 243.8 | 120.6 | 24.5 | 9.4 | 41.9 | 25.0 | 9.4 | 243.8 |
| 62 | 701 | - | - | - | - | - | - | - | - | - | - | 66.2 | 287.5 |
| 621 | 547 | 170.9 | 372.6 | 304.3 | N/S | 747.8 | 430.1 | 112.7 | 34.8 | 57.6 | 178.5 | 34.8 | 747.8 |
| 622 | 154 | 194.6 | 345.7 | 192.3 | N/S | 292.0 | 186.0 | N/S | 260.8 | 39.3 | 271.5 | 39.3 | 345.7 |
| 63 | 694 | - | - | - | - | - | - | - | - | - | - | 39.4 | 1605.5 |
| 631 | 340 | 45.6 | 2.9 | 3.4 | N/S | 7.9 | 20.1 | 21.6 | 0.6 | 1.1 | 2.3 | 0.6 | 45.6 |
| 632 | 354 | 80.1 | 328.9 | 317.6 | N/S | 222.7 | 151.0 | N/S | 41.0 | 119.4 | 59.6 | 41.0 | 328.9 |
| 64 | 988 | 1147.2 | 468.5 | 430.0 | N/S | 977.0 | N/S | N/S | 260.6 | 485.0 | 760.6 | 156.4 | 1297.3 |
| 65 | 164 | - | - | - | - | - | - | - | - | - | - | 236.4 | 6513.3 |
| 651 | 102 | 309.8 | 285.3 | 393.2 | N/S | 87.4 | 273.6 | 148.6 | 45.2 | 17.0 | 953.7 | 17.0 | 953.7 |
| 652 | 62 | 511.4 | 1142.3 | 725.4 | N/S | 1069.0 | 5697.9 | N/S | 303.7 | 378.4 | 2694.6 | 303.7 | 5697.9 |
| 66 | 266 | - | - | - | - | - | - | - | - | - | - | 129.8 | 1783.2 |
| 661 | 117 | 194.7 | 190.2 | 178.8 | N/S | 72.5 | 25.3 | 430.2 | 57.0 | 18.3 | 188.1 | 18.3 | 430.2 |
| 662 | 149 | 1475.8 | 1291.1 | 256.6 | N/S | 490.3 | 195.0 | N/S | 321.7 | 183.6 | 686.1 | 183.6 | 1475.8 |
| 71 | 146 | 107.7 | 88.4 | 298.2 | N/S | 163.7 | 977.0 | 275.6 | 50.7 | 35.2 | 129.3 | 32.3 | 1102.7 |
| 72 | 504 | 13.0 | 52.3 | 14.8 | N/S | N/S | 11.0 | 13.0 | 11.7 | 8.7 | 1.8 | 1.8 | 102.7 |
| 73 | 501 | 1.0 | 0.0 | 1.5 | N/S | N/S | N/S | N/S | N/S | N/S | N/S | 0.0 | 129.0 |
| 74 | 433 | 3.1 | 12.3 | 118.5 | N/S | 6.4 | 52.0 | 3.0 | 5.5 | 1.4 | 4.4 | 0.0 | 229.3 |
| USA N. Edge & Peak* | 2765 | 74.2 | 116.6 | 126.7 | N/S | 263.7 | 185.6 | 71.1 | 18.7 | 25.3 | 95.9 | 18.7 | 263.7 |
| USA Georges Bank** | 7456 | 90.2 | 114.5 | 78.8 | - | 223.0 | 278.2 | 193.9 | 31.8 | 38.6 | 107.5 | 31.8 | 278.2 |
| CANADA N. Edge & Peak* | 1707 | 845.6 | 524.7 | 380.8 | N/S | 719.6 | 304.7 | N/S | 218.7 | 347.8 | 629.4 | 222.0 | 845.6 |
| TOTAL N. Edge & Peak | 4472 | 368.6 | 272.4 | 223.7 | - | 459.8 | 231.1 | - | 94.8 | 148.4 | 299.7 | 85.3 | 809.4 |
| TOTAL Georges Bank | 9163 | 252.9 | 190.9 | 135.1 | - | 320.9 | 283.1 | - | 66.6 | 96.2 | 204.7 | 67.2 | 469.7 |

* USA N. Edge & Peak: Strata 61, 621, 631, 651, 661, 71, 72, 74; Canada N. Edge & Peak: Strata 622, 632, 64, 652, 662.

** USA Georges Bank: Combined South Channel, SE Part, and USA Edge & Peak areas.

N/S = not sampled.

- = not calculated.

Appendix 1, Table 8. Standardized mean number of pre-recruit [<70 mm shell height] sea scallop per tow by stratum, and standardized stratified mean number of pre-recruit sea scallop per tow by area and region from the NEFSC sea scallop research vessel surveys on Georges Bank, 1975, 1977-1995.

| Stratum | Area (sq mi) | YEAR | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 1975 | 1977 | 1978 | 1979 | 1980 | 1981 | 1982 | 1983 | 1984 | 1985 |
| 45 | 392 | 16.7 | 0.0 | 0.0 | 0.0 | N/S | 0.0 | 0.0 | 5.0 | 0.0 | 9.7 |
| 46 | 416 | 8.7 | N/S | 7.3 | 2.0 | N/S | 11.8 | 5.2 | 0.3 | 5.0 | 15.0 |
| 47 | 871 | 2.2 | 0.0 | 0.7 | 16.4 | 11.0 | 13.6 | 16.0 | 27.0 | 16.9 | 53.7 |
| 48 | 1109 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 10.7 | 11.3 | 5.5 | 14.1 |
| 49 | 244 | 73.3 | 10.4 | 9.1 | 17.8 | 137.8 | 4.2 | 11.0 | 20.2 | 23.0 | 28.0 |
| 50 | 150 | 740.4 | 46.3 | 7.5 | 2.5 | 922.0 | 58.4 | 1429.9 | 96.0 | 77.7 | 217.3 |
| 51 | 139 | 2.5 | N/S | 110.3 | 1.7 | 4.7 | 120.0 | 2712.8 | 46.4 | 14.3 | 55.1 |
| 52 | 307 | 3.5 | 0.8 | 2.0 | 1.3 | 0.0 | 6.0 | 68.0 | 1.7 | 0.5 | 20.1 |
| 53 | 268 | 0.0 | 0.3 | 2.0 | 0.0 | N/S | 4.2 | 6.5 | 6.7 | 0.2 | 8.1 |
| 54 | 278 | 3.7 | 20.5 | 0.0 | 0.4 | 14.0 | 3.3 | 57.5 | 11.5 | 8.3 | 15.1 |
| 55 | 364 | 0.1 | 0.0 | 0.0 | 0.3 | 4.5 | 0.0 | 1.2 | 7.3 | 7.2 | 26.6 |
| 56 | 209 | 0.0 | 5.0 | N/S | 2.5 | 0.5 | 0.5 | 0.0 | 1.7 | 5.3 | 6.3 |
| South Channel (46-47, 49-55) | 3037 | 45.1 | 6.2 | 7.7 | 6.8 | 79.8 | 15.5 | 213.8 | 19.0 | 13.6 | 40.3 |
| 57 | 184 | N/S | 0.0 | 0.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.3 | 0.0 |
| 58 | 300 | 2.3 | 0.0 | 0.0 | 2.5 | 4.5 | 0.0 | 0.3 | 2.5 | 0.5 | 15.3 |
| 59 | 538 | 2.3 | 2.6 | 6.3 | 10.8 | 27.1 | 1.6 | 0.9 | 24.6 | 8.6 | 8.0 |
| 60 | 816 | 1.3 | 4.8 | 0.3 | 7.5 | 24.1 | 1.9 | 0.9 | 5.8 | 3.4 | 7.6 |
| SE Part (58-60) | 1654 | 1.8 | 3.2 | 2.2 | 7.7 | 21.5 | 1.4 | 0.8 | 11.3 | 4.6 | 9.1 |
| 61 | 576 | N/S | 0.2 | 1.3 | N/S | 9.4 | N/S | 0.1 | 1.3 | 5.3 | 2.1 |
| 62 | 701 | N/S | 7.4 | 55.1 | 31.1 | 205.4 | N/S | 7.9 | 60.4 | 75.2 | - |
| 621 | 547 | - | - | - | - | - | - | - | - | - | 46.9 |
| 622 | 154 | - | - | - | - | - | - | - | - | - | 138.8 |
| 63 | 694 | 13.0 | 46.9 | 133.2 | 43.6 | 1386.8 | 22.7 | 37.5 | 14.1 | 22.2 | - |
| 631 | 340 | - | - | - | - | - | - | - | - | - | 6.3 |
| 632 | 354 | - | - | - | - | - | - | - | - | - | 108.7 |
| 64 | 988 | 192.1 | 97.9 | 374.0 | 179.9 | 853.6 | 320.7 | 78.1 | 94.1 | 1165.9 | 193.9 |
| 65 | 164 | 284.0 | 156.0 | 126.0 | 139.1 | 6032.4 | 294.8 | 122.3 | 197.3 | 179.8 | - |
| 651 | 102 | - | - | - | - | - | - | - | - | - | 168.4 |
| 652 | 62 | - | - | - | - | - | - | - | - | - | 664.0 |
| 66 | 266 | 39.3 | 347.6 | 74.3 | 49.6 | 51.4 | 862.2 | 167.1 | 114.3 | 211.0 | - |
| 661 | 117 | - | - | - | - | - | - | - | - | - | 97.7 |
| 662 | 149 | - | - | - | - | - | - | - | - | - | 167.1 |
| 71 | 146 | 59.8 | N/S | 592.7 | 43.2 | 106.5 | 110.0 | 24.3 | 14.8 | 13.6 | 13.8 |
| 72 | 504 | 0.5 | N/S | N/S | 11.7 | 6.1 | N/S | 9.4 | 0.3 | 0.3 | 0.8 |
| 73 | 501 | 105.5 | N/S | N/S | 4.5 | 0.2 | N/S | 1.8 | 0.0 | 0.0 | 0.4 |
| 74 | 433 | 6.9 | 0.0 | N/S | 5.8 | 0.1 | N/S | 2.8 | 11.2 | 7.4 | 0.8 |
| USA N. Edge & Peak* | 2765 | - | - | - | - | - | - | - | - | - | 21.8 |
| USA Georges Bank** | 7456 | - | - | - | - | - | - | - | - | - | 26.5 |
| CANADA N. Edge & Peak* | 1707 | - | - | - | - | - | - | - | - | - | 186.0 |
| TOTAL N. Edge & Peak* | 4472 | 83.8 | 66.1 | 177.8 | 72.0 | 665.7 | 277.4 | 40.9 | 48.3 | 293.8 | 84.5 |
| TOTAL Georges Bank | 9163 | 51.7 | 34.4 | 79.7 | 36.6 | 377.4 | 97.2 | 91.0 | 31.9 | 148.7 | 56.2 |

Appendix 1, Table 8. (continued).

| Stratum | Area (sq mi) | YEAR 1986 | 1987 | 1988 | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | HISTORIC LOW | HIGH |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 45 | 392 | 0.0 | 0.0 | 0.0 | 0.3 | N/S | N/S | N/S | N/S | N/S | N/S | 0.0 | 16.7 |
| 46 | 416 | 20.2 | 10.5 | 46.0 | 33.5 | 68.2 | 238.5 | 8.2 | 11.3 | 23.0 | 0.0 | 0.3 | 238.5 |
| 47 | 871 | N/S | 29.5 | 22.6 | 0.8 | 147.7 | 116.3 | 1.7 | 25.3 | 7.3 | 74.0 | 0.0 | 147.7 |
| 48 | 1109 | N/S | 1.1 | 0.3 | 3.0 | N/S | N/S | N/S | N/S | N/S | N/S | 0.0 | 14.1 |
| 49 | 244 | 29.8 | 20.1 | 2.6 | 1.9 | 824.4 | 3129.3 | 1198.8 | 5.3 | 45.1 | 98.0 | 1.9 | 3129.3 |
| 50 | 150 | 721.1 | 658.6 | 23.8 | 49.6 | 1462.7 | 836.0 | 384.9 | 29.8 | 54.0 | 793.4 | 2.5 | 1462.7 |
| 51 | 139 | 417.1 | 469.2 | 77.9 | 215.7 | 995.8 | 1150.3 | 821.4 | 24.3 | 14.8 | 989.5 | 1.7 | 2712.8 |
| 52 | 307 | 13.5 | 49.7 | 40.8 | 13.9 | 153.5 | 91.5 | 649.8 | 172.1 | 49.3 | 31.9 | 0.0 | 649.8 |
| 53 | 268 | 28.6 | 87.7 | 8.9 | 7.0 | 3.2 | 29.6 | 4.0 | 9.0 | 13.4 | 1.3 | 0.0 | 87.7 |
| 54 | 278 | 50.9 | 65.1 | 14.6 | 26.3 | 65.5 | 90.9 | 15.3 | 3.6 | 3.0 | 34.7 | 0.0 | 90.9 |
| 55 | 364 | N/S | 2.6 | 70.9 | 0.2 | 10.5 | 4.0 | 7.1 | 0.9 | 0.5 | 5.0 | 0.0 | 70.9 |
| 56 | 209 | N/S | 0.0 | 11.7 | 4.0 | N/S | N/S | N/S | N/S | N/S | N/S | 0.0 | 11.7 |
| South Channel (46-47, 49-55) | 3037 | 115.3 | 84.6 | 32.5 | 21.8 | 258.8 | 432.1 | 222.8 | 30.4 | 18.7 | 120.7 | 6.2 | 432.1 |
| 57 | 184 | 0.7 | 0.0 | 0.7 | 1.0 | N/S | N/S | N/S | N/S | N/S | N/S | 0.0 | 1.3 |
| 58 | 300 | 30.5 | 15.1 | 0.9 | 1.4 | 0.8 | 1.8 | 0.3 | 0.4 | 1.5 | 5.0 | 0.0 | 30.5 |
| 59 | 538 | 20.6 | 13.2 | 2.0 | 56.8 | 1.5 | 14.7 | 12.7 | 6.3 | 25.2 | 13.8 | 0.9 | 56.8 |
| 60 | 816 | 33.8 | 32.5 | 1.3 | 9.9 | 2.0 | 27.2 | 12.4 | 0.6 | 22.7 | 16.8 | 0.3 | 33.8 |
| SE Part (58-60) | 1654 | 28.9 | 23.1 | 1.4 | 23.6 | 1.6 | 18.5 | 10.3 | 2.4 | 19.6 | 13.7 | 0.8 | 28.9 |
| 61 | 576 | 17.9 | 25.1 | 15.0 | N/S | 22.9 | 35.1 | 2.5 | 2.4 | 29.8 | 11.8 | 0.1 | 35.1 |
| 62 | 701 | - | - | - | - | - | - | - | - | - | - | 7.4 | 205.4 |
| 621 | 547 | 97.2 | 199.5 | 146.9 | N/S | 231.7 | 257.5 | 14.3 | 1.7 | 41.4 | 156.4 | 1.7 | 257.5 |
| 622 | 154 | 55.6 | 223.2 | 75.3 | N/S | 142.5 | 362.0 | N/S | 4.3 | 86.5 | 215.3 | 4.3 | 362.0 |
| 63 | 694 | - | - | - | - | - | - | - | - | - | - | 13.0 | 1386.8 |
| 631 | 340 | 22.6 | 1.3 | 0.1 | N/S | 3.2 | 6.0 | 1.6 | 0.3 | 0.0 | 1.7 | 0.0 | 22.6 |
| 632 | 354 | 40.4 | 243.3 | 176.8 | N/S | 110.0 | 35.5 | N/S | 1.8 | 40.5 | 14.8 | 1.8 | 243.3 |
| 64 | 988 | 433.7 | 303.8 | 149.8 | N/S | 653.1 | N/S | N/S | 26.1 | 141.5 | 73.8 | 26.1 | 1165.9 |
| 65 | 164 | - | - | - | - | - | - | - | - | - | - | 122.3 | 6032.4 |
| 651 | 102 | 259.8 | 138.2 | 238.0 | N/S | 26.1 | 252.3 | 77.5 | 16.4 | 2.1 | 895.2 | 2.1 | 895.2 |
| 652 | 62 | 364.6 | 254.6 | 246.0 | N/S | 469.3 | 4225.0 | N/S | 20.9 | 202.2 | 2160.3 | 20.9 | 4225.0 |
| 66 | 266 | - | - | - | - | - | - | - | - | - | - | 39.3 | 862.2 |
| 661 | 117 | 133.8 | 123.8 | 101.5 | N/S | 6.7 | 8.1 | 342.8 | 12.4 | 1.7 | 160.4 | 1.7 | 342.8 |
| 662 | 149 | 1167.0 | 428.1 | 167.3 | N/S | 11.3 | 24.0 | N/S | 37.4 | 59.3 | 474.9 | 11.3 | 1167.0 |
| 71 | 146 | 71.3 | 49.0 | 202.5 | N/S | 43.4 | 858.7 | 94.0 | 9.8 | 5.7 | 78.8 | 5.7 | 858.7 |
| 72 | 504 | 4.5 | 16.8 | 6.8 | N/S | N/S | 3.7 | 1.2 | 0.7 | 0.2 | 0.2 | 0.2 | 16.8 |
| 73 | 501 | 0.7 | 0.0 | 0.5 | N/S | N/S | N/S | N/S | N/S | N/S | N/S | 0.0 | 105.5 |
| 74 | 433 | 0.0 | 7.6 | 54.9 | N/S | 1.0 | 25.9 | 0.6 | 1.5 | 0.0 | 0.4 | 0.0 | 54.9 |
| **USA N. Edge & Peak*** | **2765** | **45.6** | **62.0** | **65.8** | **N/S** | **66.9** | **118.7** | **26.1** | **3.1** | **14.9** | **81.6** | **3.1** | **118.7** |
| **USA Georges Bank**** | **7456** | **61.3** | **62.6** | **37.9** | **-** | **135.2** | **224.1** | **102.7** | **14.0** | **17.5** | **82.4** | **14.0** | **224.1** |
| CANADA N. Edge & Peak* | 1707 | 379.5 | 293.0 | 153.7 | N/S | 431.7 | 206.4 | N/S | 19.5 | 110.6 | 185.4 | 19.5 | 431.7 |
| TOTAL N. Edge & Peak | 4472 | 173.0 | 150.2 | 99.4 | - | 223.8 | 152.2 | - | 9.1 | 51.4 | 121.3 | 9.1 | 665.7 |
| TOTAL Georges Bank | 9163 | 129.8 | 105.5 | 59.5 | - | 193.6 | 220.8 | - | 15.0 | 34.8 | 101.6 | 15.0 | 377.4 |

* USA N. Edge & Peak: Strata 61, 621, 631, 651, 661, 71, 72, 74; Canada N. Edge & Peak: Strata 622, 632, 64, 652, 662.

** USA Georges Bank: Combined South Channel, SE Part, and USA Edge & Peak areas.

N/S = not sampled.

- = not calculated.

Appendix 1, Table 9. Standardized mean number of harvestable-size [>70 mm shell height] sea scallops per tow by stratum, and standardized stratified mean number of harvestable-size sea scallops per tow by area and region, from the NEFSC sea scallop research vessel surveys on Georges Bank, 1975, 1977-1995.

| Stratum | Area (sq mi) | YEAR 1975 | 1977 | 1978 | 1979 | 1980 | 1981 | 1982 | 1983 | 1984 | 1985 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 45 | 392 | 17.7 | 0.0 | 0.0 | 0.0 | N/S | 0.0 | 0.0 | 12.0 | 0.0 | 1.7 |
| 46 | 416 | 32.3 | N/S | 13.0 | 7.0 | N/S | 72.6 | 7.5 | 0.2 | 14.7 | 12.8 |
| 47 | 871 | 39.6 | 20.8 | 16.0 | 33.8 | 16.3 | 30.3 | 17.7 | 21.7 | 18.1 | 33.6 |
| 48 | 1109 | 24.5 | 0.0 | 0.0 | 0.3 | 0.0 | 2.3 | 34.3 | 1.0 | 27.8 | 11.2 |
| 49 | 244 | 10.0 | 203.4 | 114.4 | 160.2 | 36.6 | 46.0 | 13.5 | 14.5 | 11.9 | 20.3 |
| 50 | 150 | 109.2 | 316.5 | 316.3 | 1168.8 | 211.6 | 118.8 | 357.5 | 163.9 | 49.7 | 101.2 |
| 51 | 139 | 16.0 | N/S | 40.7 | 18.7 | 15.6 | 27.1 | 445.3 | 627.2 | 48.8 | 27.3 |
| 52 | 307 | 5.3 | 3.0 | 2.7 | 2.7 | 4.0 | 22.2 | 22.2 | 32.3 | 4.3 | 223.1 |
| 53 | 268 | 3.0 | 141.0 | 171.0 | 32.7 | N/S | 31.4 | 20.7 | 27.0 | 19.8 | 27.0 |
| 54 | 278 | 61.6 | 241.5 | 12.9 | 30.8 | 36.0 | 21.3 | 36.5 | 40.7 | 11.8 | 17.0 |
| 55 | 364 | 6.2 | 0.5 | 0.8 | 1.1 | 7.6 | 0.3 | 2.8 | 18.8 | 13.6 | 13.3 |
| 56 | 209 | 0.0 | 4.0 | N/S | 1.0 | 0.0 | 2.5 | 0.0 | 0.7 | 1.3 | 0.3 |
| South Channel (46-47, 49-55) | 3037 | 29.9 | 89.1 | 49.7 | 88.2 | 30.2 | 36.5 | 53.0 | 55.8 | 17.7 | 47.4 |
| 57 | 184 | N/S | 2.3 | 5.3 | 1.0 | 0.0 | 0.0 | 0.0 | 1.7 | 4.3 | 3.0 |
| 58 | 300 | 3.3 | 0.5 | 9.5 | 9.0 | 1.5 | 2.5 | 1.3 | 3.8 | 1.0 | 3.3 |
| 59 | 538 | 56.8 | 61.3 | 52.6 | 19.5 | 80.9 | 32.2 | 10.9 | 13.5 | 20.5 | 10.7 |
| 60 | 816 | 39.1 | 14.5 | 16.7 | 26.9 | 30.5 | 17.1 | 12.3 | 8.4 | 12.3 | 15.7 |
| SE Part (58-60) | 1654 | 38.4 | 27.2 | 27.1 | 21.2 | 41.6 | 19.4 | 9.8 | 9.2 | 12.9 | 11.8 |
| 61 | 576 | N/S | 54.2 | 152.0 | N/S | 19.9 | N/S | 11.3 | 9.7 | 13.0 | 18.4 |
| 62 | 701 | N/S | 149.9 | 187.5 | 110.5 | 82.1 | N/S | 58.3 | 44.6 | 29.9 | - |
| 621 | 547 | - | - | - | - | - | - | - | - | - | 36.8 |
| 622 | 154 | - | - | - | - | - | - | - | - | - | 83.3 |
| 63 | 694 | 64.4 | 161.7 | 283.6 | 326.7 | 218.7 | 39.7 | 25.5 | 25.5 | 17.2 | - |
| 631 | 340 | - | - | - | - | - | - | - | - | - | 9.4 |
| 632 | 354 | - | - | - | - | - | - | - | - | - | 160.9 |
| 64 | 988 | 278.4 | 508.5 | 504.4 | 306.9 | 263.4 | 649.3 | 159.4 | 62.3 | 131.4 | 651.0 |
| 65 | 164 | 168.3 | 2061.3 | 875.4 | 600.0 | 480.9 | 736.1 | 114.1 | 47.7 | 121.6 | - |
| 651 | 102 | - | - | - | - | - | - | - | - | - | 186.9 |
| 652 | 62 | - | - | - | - | - | - | - | - | - | 910.8 |
| 66 | 266 | 220.5 | 1435.6 | 698.8 | 365.9 | 78.3 | 351.9 | 130.7 | 105.6 | 121.9 | - |
| 661 | 117 | - | - | - | - | - | - | - | - | - | 100.3 |
| 662 | 149 | - | - | - | - | - | - | - | - | - | 109.8 |
| 71 | 146 | 69.3 | N/S | 510.0 | 405.0 | 219.5 | 224.0 | 62.0 | 17.5 | 33.2 | 18.5 |
| 72 | 504 | 12.0 | N/S | N/S | 91.0 | 56.3 | N/S | 8.0 | 7.3 | 15.0 | 5.0 |
| 73 | 501 | 23.5 | N/S | N/S | 55.5 | 0.0 | N/S | 0.6 | 0.0 | 0.3 | 4.2 |
| 74 | 433 | 27.3 | 0.0 | N/S | 223.5 | 3.9 | N/S | 7.4 | 17.8 | 15.0 | 8.4 |
| USA N. Edge & Peak* | 2765 | - | - | - | - | - | - | - | - | - | 26.6 |
| USA Georges Bank** | 7456 | - | - | - | - | - | - | - | - | - | 31.8 |
| CANADA N. Edge & Peak* | 1707 | - | - | - | - | - | - | - | - | - | 460.3 |
| TOTAL N. Edge & Peak | 4472 | 135.8 | 384.8 | 372.9 | 257.9 | 143.7 | 405.7 | 65.4 | 37.1 | 54.0 | 192.2 |
| TOTAL Georges Bank | 9163 | 74.6 | 218.3 | 184.0 | 152.3 | 92.3 | 152.4 | 51.2 | 38.3 | 34.6 | 111.6 |

Appendix 1, Table 9. (continued).

| Stratum | Area (sq mi) | YEAR 1986 | 1987 | 1988 | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | HISTORIC LOW | HIGH |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 45 | 392 | 0.0 | 0.0 | 0.0 | 2.0 | N/S | N/S | N/S | N/S | N/S | N/S | 0.0 | 17.7 |
| 46 | 416 | 9.0 | 10.5 | 4.3 | 12.5 | 42.3 | 57.0 | 2.0 | 4.5 | 19.0 | 2.0 | 0.2 | 72.6 |
| 47 | 871 | N/S | 23.8 | 12.3 | 5.2 | 39.1 | 41.1 | 5.2 | 9.5 | 6.2 | 61.0 | 5.2 | 61.0 |
| 48 | 1109 | N/S | 0.6 | 0.2 | 3.3 | N/S | N/S | N/S | N/S | N/S | N/S | 0.0 | 34.3 |
| 49 | 244 | 13.2 | 53.0 | 4.1 | 3.3 | 75.8 | 72.7 | 1199.4 | 29.5 | 19.9 | 50.8 | 3.3 | 1199.4 |
| 50 | 150 | 148.9 | 477.3 | 126.8 | 44.6 | 56.6 | 52.2 | 451.4 | 54.8 | 57.3 | 166.9 | 44.6 | 1168.8 |
| 51 | 139 | 64.2 | 141.5 | 300.4 | 59.7 | 36.4 | 383.9 | 383.5 | 69.2 | 53.8 | 72.2 | 15.6 | 627.2 |
| 52 | 307 | 29.9 | 67.4 | 58.7 | 26.1 | 95.4 | 49.3 | 217.6 | 86.9 | 150.8 | 39.6 | 2.7 | 223.1 |
| 53 | 268 | 29.1 | 27.0 | 21.7 | 19.4 | 17.9 | 36.4 | 21.7 | 27.3 | 108.0 | 3.9 | 3.0 | 171.0 |
| 54 | 278 | 41.1 | 41.4 | 16.6 | 24.0 | 94.4 | 95.4 | 28.4 | 9.0 | 8.7 | 31.4 | 8.7 | 241.5 |
| 55 | 364 | N/S | 4.6 | 18.5 | 1.0 | 20.9 | 14.3 | 15.2 | 4.5 | 6.2 | 4.9 | 0.3 | 20.9 |
| 56 | 209 | N/S | 0.0 | 1.3 | 4.0 | N/S | N/S | N/S | N/S | N/S | N/S | 0.0 | 4.0 |
| South Channel (46-47, 49-55) | 3037 | 37.0 | 56.1 | 36.1 | 15.1 | 49.9 | 64.2 | 171.8 | 24.1 | 37.6 | 41.2 | 15.1 | 171.8 |
| 57 | 184 | 2.3 | 1.0 | 6.7 | 1.7 | N/S | N/S | N/S | N/S | N/S | N/S | 0.0 | 6.7 |
| 58 | 300 | 4.8 | 5.8 | 2.9 | 2.1 | 0.3 | 0.5 | 2.3 | 6.0 | 0.4 | 0.6 | 0.3 | 9.5 |
| 59 | 538 | 19.9 | 14.0 | 32.9 | 12.2 | 14.4 | 35.2 | 25.9 | 12.6 | 12.5 | 23.5 | 10.7 | 80.9 |
| 60 | 816 | 26.8 | 69.0 | 9.9 | 15.2 | 7.4 | 5.1 | 23.6 | 8.7 | 9.6 | 11.6 | 5.1 | 69.0 |
| SE Part (58-60) | 1654 | 20.6 | 39.6 | 16.1 | 11.8 | 8.4 | 14.1 | 20.5 | 9.5 | 8.9 | 13.5 | 8.4 | 41.6 |
| 61 | 576 | 13.6 | 12.6 | 18.6 | N/S | 220.9 | 85.5 | 22.0 | 7.0 | 12.1 | 13.3 | 7.0 | 220.9 |
| 62 | 701 | - | - | - | - | - | - | - | - | - | - | 29.9 | 187.5 |
| 621 | 547 | 73.8 | 173.1 | 157.4 | N/S | 516.1 | 172.6 | 98.5 | 33.2 | 16.2 | 22.1 | 16.2 | 516.1 |
| 622 | 154 | 139.0 | 122.5 | 117.0 | N/S | 149.5 | 115.5 | N/S | 256.5 | 52.8 | 56.2 | 52.8 | 256.5 |
| 63 | 694 | - | - | - | - | - | - | - | - | - | - | 17.2 | 326.7 |
| 631 | 340 | 23.0 | 1.6 | 3.3 | N/S | 4.7 | 14.1 | 20.0 | 0.3 | 1.1 | 0.6 | 0.3 | 23.0 |
| 632 | 354 | 39.7 | 85.6 | 140.9 | N/S | 112.7 | 115.5 | N/S | 39.3 | 78.9 | 44.9 | 39.3 | 160.9 |
| 64 | 988 | 713.5 | 164.7 | 280.2 | N/S | 323.9 | N/S | N/S | 234.5 | 343.5 | 686.8 | 62.3 | 713.5 |
| 65 | 164 | - | - | - | - | - | - | - | - | - | - | 47.7 | 2061.3 |
| 651 | 102 | 50.0 | 147.2 | 155.2 | N/S | 61.3 | 21.3 | 71.1 | 28.8 | 14.9 | 58.5 | 14.9 | 186.9 |
| 652 | 62 | 146.8 | 887.7 | 479.4 | N/S | 599.7 | 1172.9 | N/S | 282.8 | 176.2 | 534.3 | 146.8 | 1172.9 |
| 66 | 266 | - | - | - | - | - | - | - | - | - | - | 78.3 | 1435.6 |
| 661 | 117 | 60.8 | 66.5 | 77.3 | N/S | 65.8 | 17.2 | 87.4 | 44.6 | 16.6 | 27.7 | 16.6 | 100.3 |
| 662 | 149 | 308.8 | 863.0 | 89.4 | N/S | 479.0 | 171.0 | N/S | 284.3 | 124.4 | 211.3 | 89.4 | 863.0 |
| 71 | 146 | 36.3 | 39.4 | 95.7 | N/S | 120.3 | 118.3 | 181.6 | 40.8 | 29.5 | 50.5 | 17.5 | 510.0 |
| 72 | 504 | 8.5 | 35.5 | 8.0 | N/S | N/S | 7.3 | 11.8 | 11.0 | 8.5 | 1.7 | 1.7 | 91.0 |
| 73 | 501 | 0.3 | 0.0 | 1.0 | N/S | N/S | N/S | N/S | N/S | N/S | N/S | 0.0 | 55.5 |
| 74 | 433 | 3.1 | 4.8 | 63.6 | N/S | 5.4 | 26.1 | 2.4 | 4.0 | 1.4 | 4.0 | 0.0 | 223.5 |
| USA N. Edge & Peak* | 2765 | 28.6 | 54.6 | 60.9 | N/S | 196.8 | 66.9 | 45.0 | 15.6 | 10.4 | 14.3 | 10.4 | 196.8 |
| USA Georges Bank** | 7456 | 28.9 | 51.9 | 40.8 | - | 87.8 | 54.1 | 91.2 | 17.8 | 21.1 | 25.1 | 17.8 | 91.2 |
| CANADA N. Edge & Peak* | 1707 | 466.0 | 231.7 | 227.2 | N/S | 287.9 | 98.3 | N/S | 199.2 | 237.2 | 444.0 | 98.3 | 466.0 |
| TOTAL N. Edge & Peak | 4472 | 195.6 | 122.2 | 124.4 | - | 236.0 | 78.9 | - | 85.7 | 97.0 | 178.4 | 37.1 | 405.7 |
| TOTAL Georges Bank | 9163 | 123.0 | 85.4 | 75.6 | - | 127.3 | 62.3 | - | 51.6 | 61.4 | 103.1 | 34.6 | 218.3 |

* USA N. Edge & Peak: Strata 61, 621, 631, 651, 661, 71, 72, 74; Canada N. Edge & Peak: Strata 622, 632, 64, 652, 662.

** USA Georges Bank: Combined South Channel, SE Part, and USA Edge & Peak areas.

N/S = not sampled.

- = not calculated.

Appendix 1, Table 10. Standardized mean weight [g] of sea scallops per tow by stratum, and standardized stratified mean weight of sea scallops per tow by area and region, from the NEFSC sea scallop research vessel surveys on Georges Bank, 1975, 1977-1995.

| Stratum | Area (sq mi) | YEAR 1975 | 1977 | 1978 | 1979 | 1980 | 1981 | 1982 | 1983 | 1984 | 1985 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 45 | 392 | 556 | 0 | 0 | 0 | N/S | 0 | 0 | 289 | 0 | 46 |
| 46 | 416 | 1029 | N/S | 454 | 312 | N/S | 1283 | 208 | 10 | 363 | 190 |
| 47 | 871 | 1114 | 872 | 533 | 1045 | 450 | 469 | 482 | 597 | 416 | 750 |
| 48 | 1109 | 878 | 0 | 0 | 12 | 0 | 70 | 745 | 25 | 535 | 209 |
| 49 | 244 | 568 | 3293 | 2360 | 4162 | 1082 | 1440 | 206 | 365 | 254 | 383 |
| 50 | 150 | 3571 | 3945 | 5717 | 12907 | 3154 | 1380 | 6901 | 2084 | 778 | 1729 |
| 51 | 139 | 646 | N/S | 1043 | 558 | 454 | 663 | 9261 | 6177 | 709 | 562 |
| 52 | 307 | 163 | 102 | 59 | 38 | 159 | 516 | 491 | 693 | 109 | 3244 |
| 53 | 268 | 100 | 4559 | 4277 | 959 | N/S | 599 | 727 | 617 | 608 | 709 |
| 54 | 278 | 1669 | 5188 | 563 | 1183 | 882 | 495 | 1015 | 699 | 315 | 499 |
| 55 | 364 | 235 | 20 | 27 | 36 | 239 | 20 | 84 | 428 | 278 | 417 |
| 56 | 209 | 0 | 53 | N/S | 10 | 0 | 61 | 0 | 27 | 31 | 12 |
| South Channel (46-47, 49-55) | 3037 | 918 | 1957 | 1173 | 1541 | 668 | 677 | 1165 | 827 | 387 | 869 |
| 57 | 184 | N/S | 96 | 282 | 13 | 0 | 0 | 0 | 84 | 189 | 123 |
| 58 | 300 | 113 | 5 | 424 | 161 | 16 | 51 | 55 | 136 | 25 | 139 |
| 59 | 538 | 1345 | 1557 | 1732 | 824 | 1396 | 786 | 418 | 506 | 433 | 249 |
| 60 | 816 | 1145 | 368 | 596 | 858 | 571 | 398 | 345 | 170 | 192 | 267 |
| SEPart (58-60) | 1654 | 1023 | 689 | 934 | 720 | 739 | 461 | 316 | 273 | 240 | 238 |
| 61 | 576 | N/S | 1724 | 4864 | N/S | 794 | N/S | 396 | 347 | 528 | 401 |
| 62 | 701 | N/S | 3022 | 4303 | 2689 | 1933 | N/S | 953 | 870 | 670 | - |
| 621 | 547 | - | - | - | - | - | - | - | - | - | 610 |
| 622 | 154 | - | - | - | - | - | - | - | - | - | 1420 |
| 63 | 694 | 1355 | 2343 | 5849 | 5003 | 5068 | 757 | 559 | 509 | 419 | - |
| 631 | 340 | - | - | - | - | - | - | - | - | - | 193 |
| 632 | 354 | - | - | - | - | - | - | - | - | - | 1918 |
| 64 | 988 | 4038 | 7373 | 10240 | 5964 | 4421 | 6466 | 2373 | 1315 | 2885 | 6481 |
| 65 | 164 | 3658 | 22843 | 15856 | 7960 | 12587 | 7683 | 1632 | 1108 | 1546 | - |
| 651 | 102 | - | - | - | - | - | - | - | - | - | 2250 |
| 652 | 62 | - | - | - | - | - | - | - | - | - | 9178 |
| 66 | 266 | 3230 | 16857 | 14687 | 8948 | 1327 | 5329 | 2195 | 1500 | 1833 | - |
| 661 | 117 | - | - | - | - | - | - | - | - | - | 1412 |
| 662 | 149 | - | - | - | - | - | - | - | - | - | 1992 |
| 71 | 146 | 1596 | N/S | 10007 | 6194 | 2732 | 2619 | 948 | 554 | 639 | 383 |
| 72 | 504 | 348 | N/S | N/S | 1876 | 1408 | N/S | 176 | 158 | 365 | 101 |
| 73 | 501 | 820 | N/S | N/S | 677 | 1 | N/S | 7 | 0 | 2 | 99 |
| 74 | 433 | 740 | 0 | N/S | 3217 | 60 | N/S | 157 | 307 | 308 | 258 |
| USA N. Edge & Peak* | 2765 | - | - | - | - | - | - | - | - | - | 450 |
| USA Georges Bank** | 7456 | - | - | - | - | - | - | - | - | - | 574 |
| CANADA N. Edge & Peak* | 1707 | - | - | - | - | - | - | - | - | - | 4784 |
| TOTAL N. Edge & Peak | 4472 | 2228 | 5299 | 7910 | 4666 | 2963 | 4417 | 1068 | 746 | 1133 | 2104 |
| TOTAL Georges Bank | 9163 | 1471 | 3298 | 4020 | 2801 | 1892 | 1841 | 964 | 688 | 725 | 1358 |

Appendix 1, Table 10. (continued).

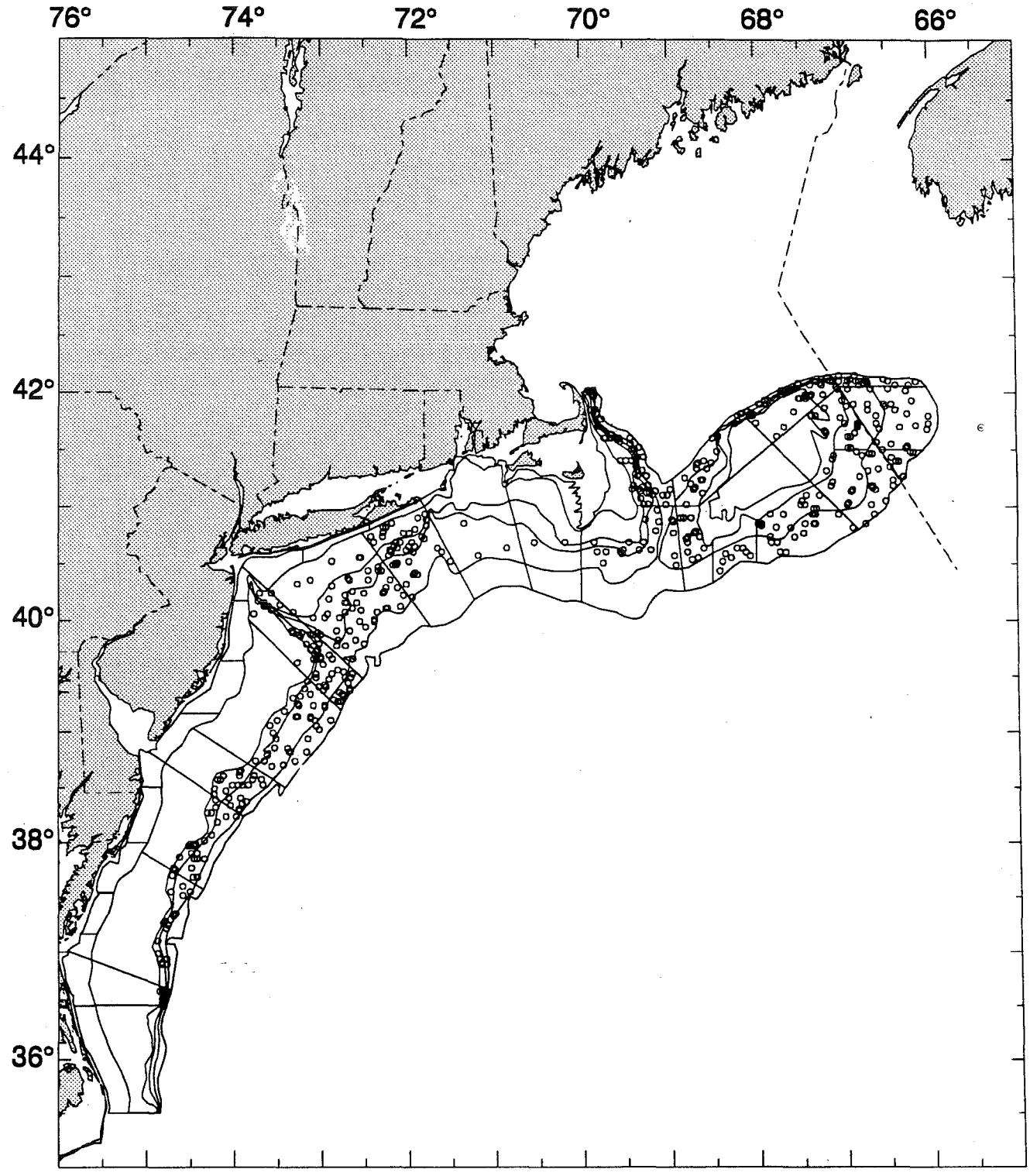
| Stratum | Area (sq mi) | YEAR 1986 | 1987 | 1988 | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | HISTORIC LOW | HIGH |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 45 | 392 | 0 | 0 | 0 | 21 | N/S | N/S | N/S | N/S | N/S | N/S | 0 | 556 |
| 46 | 416 | 183 | 288 | 171 | 289 | 632 | 1438 | 533 | 130 | 264 | 36 | 10 | 1438 |
| 47 | 871 | N/S | 581 | 276 | 202 | 834 | 849 | 145 | 261 | 169 | 1100 | 145 | 1114 |
| 48 | 1109 | N/S | 7 | 3 | 62 | N/S | N/S | N/S | N/S | N/S | N/S | 0 | 878 |
| 49 | 244 | 355 | 490 | 82 | 74 | 3032 | 5676 | 13243 | 285 | 346 | 829 | 74 | 13243 |
| 50 | 150 | 2964 | 5638 | 1516 | 811 | 3089 | 2322 | 4847 | 624 | 736 | 3657 | 624 | 12907 |
| 51 | 139 | 1436 | 2326 | 3017 | 1236 | 1448 | 4515 | 5980 | 733 | 677 | 3054 | 454 | 9261 |
| 52 | 307 | 614 | 1033 | 782 | 496 | 1446 | 738 | 3519 | 1375 | 1618 | 771 | 38 | 3519 |
| 53 | 268 | 821 | 820 | 494 | 330 | 355 | 610 | 454 | 356 | 1144 | 97 | 100 | 4559 |
| 54 | 278 | 945 | 777 | 291 | 511 | 1519 | 1349 | 454 | 172 | 217 | 641 | 172 | 5188 |
| 55 | 364 | N/S | 103 | 564 | 37 | 318 | 298 | 274 | 152 | 118 | 113 | 20 | 564 |
| 56 | 209 | N/S | 0 | 20 | 41 | N/S | N/S | N/S | N/S | N/S | N/S | 0 | 61 |
| South Channel (46-47, 49-55) | 3037 | 820 | 891 | 539 | 331 | 1143 | 1505 | 2162 | 384 | 478 | 866 | 331 | 2162 |
| 57 | 184 | 71 | 54 | 117 | 101 | N/S | N/S | N/S | N/S | N/S | N/S | 0 | 282 |
| 58 | 300 | 99 | 86 | 33 | 41 | 8 | 14 | 38 | 132 | 20 | 26 | 5 | 424 |
| 59 | 538 | 616 | 287 | 689 | 433 | 232 | 551 | 539 | 322 | 383 | 462 | 232 | 1732 |
| 60 | 816 | 496 | 1125 | 189 | 299 | 149 | 129 | 382 | 209 | 307 | 334 | 129 | 1145 |
| SE Part (58-60) | 1654 | 463 | 664 | 323 | 296 | 150 | 245 | 371 | 232 | 280 | 320 | 150 | 1023 |
| 61 | 576 | 406 | 423 | 337 | N/S | 2020 | 1250 | 444 | 180 | 386 | 266 | 180 | 4864 |
| 62 | 701 | - | - | - | - | - | - | - | - | - | - | 670 | 4303 |
| 621 | 547 | 1257 | 2360 | 1959 | N/S | 5437 | 2503 | 1290 | 466 | 384 | 542 | 384 | 5437 |
| 622 | 154 | 2392 | 1841 | 1725 | N/S | 2000 | 3495 | N/S | 4102 | 1259 | 1484 | 1259 | 4102 |
| 63 | 694 | - | - | - | - | - | - | - | - | - | - | 419 | 5849 |
| 631 | 340 | 466 | 33 | 86 | N/S | 139 | 402 | 449 | 11 | 20 | 29 | 11 | 466 |
| 632 | 354 | 913 | 1826 | 2097 | N/S | 1938 | 3247 | N/S | 945 | 1774 | 831 | 831 | 3247 |
| 64 | 988 | 9976 | 3084 | 3782 | N/S | 5213 | N/S | N/S | 3754 | 4981 | 7432 | 1315 | 10240 |
| 65 | 164 | - | - | - | - | - | - | - | - | - | - | 1108 | 22843 |
| 651 | 102 | 1633 | 1884 | 1985 | N/S | 777 | 992 | 963 | 386 | 299 | 3719 | 299 | 3719 |
| 652 | 62 | 3013 | 9670 | 6083 | N/S | 8103 | 24834 | N/S | 4253 | 3609 | 12386 | 3013 | 24834 |
| 66 | 266 | - | - | - | - | - | - | - | - | - | - | 1327 | 16857 |
| 661 | 117 | 1183 | 949 | 1566 | N/S | 944 | 343 | 1962 | 474 | 227 | 895 | 227 | 1962 |
| 662 | 149 | 5960 | 10875 | 1428 | N/S | 6719 | 2950 | N/S | 4708 | 2684 | 3753 | 1428 | 10875 |
| 71 | 146 | 1030 | 603 | 1794 | N/S | 1413 | 3439 | 2026 | 497 | 499 | 1424 | 383 | 10007 |
| 72 | 504 | 216 | 763 | 161 | N/S | N/S | 200 | 243 | 280 | 167 | 55 | 55 | 1876 |
| 73 | 501 | 4 | 0 | 25 | N/S | N/S | N/S | N/S | N/S | N/S | N/S | 0 | 820 |
| 74 | 433 | 95 | 81 | 1186 | N/S | 134 | 566 | 63 | 78 | 29 | 92 | 0 | 3217 |
| USA N. Edge & Peak* | 2765 | 610 | 852 | 918 | N/S | 2052 | 1163 | 682 | 256 | 1573 | 456 | 256 | 2052 |
| USA Georges Bank** | 7456 | 632 | 826 | 632 | - | 1202 | 1099 | 1216 | 308 | 977 | 593 | 303 | 1216 |
| CANADA N. Edge & Peak* | 1707 | 6809 | 3630 | 3125 | N/S | 4480 | 2148 | N/S | 3310 | 3730 | 5327 | 2148 | 6809 |
| TOTAL N. Edge & Peak | 4472 | 2976 | 1913 | 1760 | - | 3097 | 1539 | - | 1422 | 1573 | 2317 | 746 | 7910 |
| TOTAL Georges Bank | 9163 | 1962 | 1348 | 1096 | - | 1849 | 1294 | - | 867 | 977 | 1267 | 688 | 4020 |

* USA N. Edge & Peak: Strata 61, 621, 631, 651, 661, 71, 72, 74; Canada N. Edge & Peak: Strata 622, 632, 64, 652, 662.

** USA Georges Bank: Combined South Channel, SE Part, and USA Edge & Peak areas.

N/S = not sampled.

- = not calculated.




Appendix Figure 1. Stations sampled during the 1995 NEFSC sea scallop research survey.