

Table 9. Number of **trips** needed to achieve a 30% coefficient of variation for estimates of total discard and the 2004 observed trips of fish species, by fleet and species group; *see Appendix Table V for all species.*

| Gear Type                          | Access Area (Open-Closed) | Trip Category (General/Limited) | Region | mesh groups | 2004 OB FISH TRIPS | BLUEFISH | HERRING | SALMON | RED CRAB | SCALLOP | MAACK/SQUID-BUTTERFISH | MOWKFISH | NE MUL T1SPP (LARGE-MESH) | NE MUL T1SPP (SMALL-MESH) | SKATE | DOG FISH | FLUKE/SCUPI-BLK SEA BASS | SURF CLAM/OCEAN QUAHOG | TILEFISH | PILOT coverage |
|------------------------------------|---------------------------|---------------------------------|--------|-------------|--------------------|----------|---------|--------|----------|---------|------------------------|----------|---------------------------|---------------------------|-------|----------|--------------------------|------------------------|----------|----------------|
|                                    |                           |                                 |        |             |                    |          |         |        |          |         |                        |          |                           |                           |       |          |                          |                        |          |                |
| Longline                           | all                       | all                             | NE     | all         | 12                 | 26       | 26      | 26     | 26       | 26      | 26                     | 26       | 54                        | 47                        | 84    | 187      | 26                       | 26                     | 26       |                |
| Longline                           | all                       | all                             | MA     | all         | 0                  | 12       | 12      | 12     | 12       | 12      | 12                     | 12       | 12                        | 12                        | 12    | 12       | 12                       | 12                     | 12       | pilot          |
| Otter Trawl                        | all                       | all                             | NE     | small       | 142                | 677      | 615     | 70     | 900      | 859     | 217                    | 268      | 288                       | 317                       | 391   | 371      | 453                      | 608                    | 565      |                |
| Otter Trawl                        | all                       | all                             | NE     | large       | 386                | 1917     | 1671    | 304    | 1378     | 1269    | 483                    | 151      | 168                       | 343                       | 296   | 355      | 1050                     | 2231                   | 897      |                |
| Otter Trawl                        | all                       | all                             | MA     | small       | 194                | 706      | 664     | 104    | 392      | 877     | 749                    | 595      | 399                       | 556                       | 326   | 513      | 424                      | 1364                   | 287      |                |
| Otter Trawl                        | all                       | all                             | MA     | large       | 75                 | 249      | 305     | 177    | 177      | 384     | 294                    | 203      | 182                       | 342                       | 110   | 272      | 158                      | 488                    | 177      |                |
| Scallop Trawl                      | open                      | limited                         | MA     | all         | 1                  | 12       | 12      | 12     | 12       | 12      | 12                     | 12       | 12                        | 12                        | 12    | 12       | 12                       | 12                     | 12       | pilot          |
| Scallop Trawl                      | open                      | general                         | MA     | all         | 31                 | 73       | 25      | 25     | 201      | 58      | 87                     | 56       | 43                        | 147                       | 40    | 222      | 206                      | 25                     | 25       | pilot          |
| Shrimp Trawl                       | all                       | all                             | NE     | all         | 12                 | 42       | 101     | 42     | 42       | 388     | 400                    | 25       | 22                        | 136                       | 272   | 384      | 42                       | 42                     | 42       |                |
| Shrimp Trawl                       | all                       | all                             | MA     | all         | 2                  | 13       | 13      | 13     | 13       | 13      | 13                     | 13       | 13                        | 13                        | 13    | 13       | 13                       | 13                     | 13       | pilot          |
| Sink, Anchor, Drift Gillnet        | all                       | all                             | NE     | small       | 1                  | 12       | 12      | 12     | 12       | 12      | 12                     | 12       | 12                        | 12                        | 12    | 12       | 12                       | 12                     | 12       | pilot          |
| Sink, Anchor, Drift Gillnet        | all                       | all                             | NE     | large       | 577                | 1160     | 634     | 104    | 2503     | 365     | 1875                   | 1040     | 246                       | 914                       | 673   | 375      | 1736                     | 104                    | 104      |                |
| Sink, Anchor, Drift Gillnet        | all                       | all                             | NE     | xlq         | 445                | 479      | 937     | 94     | 1043     | 1122    | 1809                   | 324      | 356                       | 1497                      | 197   | 314      | 1052                     | 94                     | 263      |                |
| Sink, Anchor, Drift Gillnet        | all                       | all                             | MA     | small       | 3                  | 58       | 58      | 58     | 58       | 58      | 58                     | 58       | 58                        | 58                        | 58    | 58       | 58                       | 58                     | 58       | pilot for fish |
| Sink, Anchor, Drift Gillnet        | all                       | all                             | MA     | large       | 4                  | 101      | 27      | 27     | 27       | 27      | 27                     | 17       | 27                        | 95                        | 91    | 27       | 27                       | 27                     | 27       | pilot for fish |
| Sink, Anchor, Drift Gillnet        | all                       | all                             | MA     | xlq         | 27                 | 96       | 51      | 51     | 216      | 51      | 77                     | 51       | 51                        | 43                        | 45    | 89       | 51                       | 51                     | 51       | pilot for fish |
| Scallop Dredge                     | open                      | limited                         | NE     | all         | 26                 | 25       | 25      | 25     | 98       | 68      | 141                    | 52       | 109                       | 92                        | 25    | 111      | 96                       | 138                    | 25       |                |
| Scallop Dredge                     | open                      | limited                         | MA     | all         | 69                 | 36       | 36      | 36     | 98       | 65      | 134                    | 53       | 130                       | 347                       | 35    | 283      | 67                       | 288                    | 36       |                |
| Scallop Dredge                     | open                      | general                         | NE     | all         | 9                  | 71       | 71      | 71     | 71       | 150     | 131                    | 90       | 64                        | 102                       | 92    | 92       | 71                       | 141                    | 71       | pilot          |
| Scallop Dredge                     | open                      | general                         | MA     | all         | 22                 | 69       | 69      | 69     | 69       | 183     | 184                    | 46       | 139                       | 82                        | 55    | 94       | 180                      | 162                    | 69       |                |
| Scallop Dredge                     | closed                    | limited                         | NE     | all         | 86                 | 182      | 326     | 15     | 405      | 49      | 147                    | 48       | 41                        | 139                       | 21    | 291      | 123                      | 458                    | 15       |                |
| Scallop Dredge                     | closed                    | limited                         | MA     | all         | 35                 | 42       | 167     | 12     | 143      | 47      | 71                     | 15       | 55                        | 92                        | 32    | 170      | 95                       | 258                    | 12       |                |
| Scallop Dredge                     | closed                    | general                         | NE     | all         | 0                  | 12       | 12      | 12     | 12       | 12      | 12                     | 12       | 12                        | 12                        | 12    | 12       | 12                       | 12                     | 12       | pilot          |
| Scallop Dredge                     | closed                    | general                         | MA     | all         | 1                  | 15       | 15      | 15     | 15       | 15      | 15                     | 15       | 15                        | 15                        | 15    | 15       | 15                       | 15                     | 15       | pilot          |
| Mid-water paired & single Trawl    | all                       | all                             | NE     | all         | 66                 | 166      | 244     | 21     | 21       | 160     | 305                    | 199      | 254                       | 350                       | 298   | 114      | 198                      | 21                     | 21       |                |
| Mid-water paired & single Trawl    | all                       | all                             | MA     | all         | 13                 | 20       | 86      | 12     | 12       | 12      | 14                     | 118      | 132                       | 25                        | 12    | 18       | 113                      | 12                     | 12       |                |
| Fish Pots/ Traps                   | all                       | all                             | NE     | all         | 0                  | 19       | 19      | 19     | 19       | 19      | 19                     | 19       | 19                        | 19                        | 19    | 19       | 19                       | 19                     | 19       | pilot          |
| Fish Pots/ Traps                   | all                       | all                             | MA     | all         | 6                  | 37       | 37      | 37     | 37       | 37      | 37                     | 98       | 37                        | 37                        | 37    | 37       | 37                       | 37                     | 37       | pilot          |
| Purse Seine                        | all                       | all                             | NE     | all         | 16                 | 10       | 85      | 10     | 10       | 10      | 79                     | 10       | 82                        | 10                        | 10    | 87       | 10                       | 10                     | 10       |                |
| Purse Seine                        | all                       | all                             | MA     | all         | 0                  | 9        | 9       | 9      | 9        | 9       | 9                      | 9        | 9                         | 9                         | 9     | 9        | 9                        | 9                      | 9        | pilot          |
| Hand Line                          | all                       | all                             | NE     | all         | 6                  | 68       | 68      | 68     | 68       | 68      | 68                     | 68       | 130                       | 68                        | 68    | 68       | 68                       | 68                     | 68       | pilot          |
| Hand Line                          | all                       | all                             | MA     | all         | 0                  | 126      | 126     | 126    | 126      | 126     | 126                    | 126      | 126                       | 126                       | 126   | 126      | 126                      | 126                    | 126      | pilot          |
| Scottish Seine                     | all                       | all                             | NE     | all         | 5                  | 12       | 12      | 12     | 12       | 12      | 12                     | 14       | 12                        | 12                        | 12    | 12       | 30                       | 12                     | 12       | pilot          |
| Clam Quahog Dredge                 | all                       | all                             | NE     | all         | 0                  | 69       | 69      | 69     | 69       | 69      | 69                     | 69       | 69                        | 69                        | 69    | 69       | 69                       | 69                     | 69       | pilot          |
| Clam Quahog Dredge                 | all                       | all                             | MA     | all         | 0                  | 69       | 69      | 69     | 69       | 69      | 69                     | 69       | 69                        | 69                        | 69    | 69       | 69                       | 69                     | 69       | pilot          |
| Crab Pots                          | all                       | all                             | NE     | all         | 0                  | 12       | 12      | 12     | 12       | 12      | 12                     | 12       | 12                        | 12                        | 12    | 12       | 12                       | 12                     | 12       | pilot          |
| Crab Pots                          | all                       | all                             | MA     | all         | 0                  | 27       | 27      | 27     | 27       | 27      | 27                     | 27       | 27                        | 27                        | 27    | 27       | 27                       | 27                     | 27       | pilot          |
| Lobster Pots                       | all                       | all                             | NE     | all         | 0                  | 353      | 353     | 353    | 353      | 353     | 353                    | 353      | 353                       | 353                       | 353   | 353      | 353                      | 353                    | 353      | pilot          |
| Lobster Pots                       | all                       | all                             | MA     | all         | 0                  | 75       | 75      | 75     | 75       | 75      | 75                     | 75       | 75                        | 75                        | 75    | 75       | 75                       | 75                     | 75       | pilot          |
| Total Trips                        |                           |                                 |        |             |                    | 7,160    | 7,175   | 2,306  | 8,679    | 7,348   | 8,236                  | 4,495    | 3,908                     | 6,626                     | 4,117 | 5,400    | 7,245                    | 7,559                  | 3,746    |                |
| Total Trips excluding shaded cells |                           |                                 |        |             |                    | 5,826    | 5,580   | 2,306  | 3,386    | 4,200   | 7,000                  | 3,699    | 3,731                     | 5,679                     | 3,008 | 4,216    | 6,113                    | 139                    | 2,021    |                |

Note: Gray-shade cells indicate unlikely species/gear combinations.

Table 9 *continued*. Number of **trips** needed to achieve a 30% coefficient of variation for estimates of total discard and the 2004 observed trips for protected species (PSP), by fleet and species group; *see Appendix Table V for all species*.

| Gear Type                          | Access Area (Open-Closed) | Trip Category (General/Limited) | Region | mesh groups | 2004 OB PSPP TRIPS | TURTLES | SEALS | WHALES | DOLPHINS/PORPOISE | SEA BIRDS (ALL) | ALL SPECIES | PILOT coverage |
|------------------------------------|---------------------------|---------------------------------|--------|-------------|--------------------|---------|-------|--------|-------------------|-----------------|-------------|----------------|
|                                    |                           |                                 |        |             |                    |         |       |        |                   |                 |             |                |
| Longline                           | all                       | all                             | NE     | all         | 119                | 26      | 26    | 26     | 26                | 215             | 107         |                |
| Longline                           | all                       | all                             | MA     | all         | 2                  | 12      | 12    | 12     | 12                | 12              | 12          | pilot          |
| Otter Trawl                        | all                       | all                             | NE     | small       | 200                | 70      | 70    | 505    | 557               | 677             | 157         |                |
| Otter Trawl                        | all                       | all                             | NE     | large       | 539                | 304     | 304   | 1577   | 777               | 1973            | 177         |                |
| Otter Trawl                        | all                       | all                             | MA     | small       | 205                | 901     | 104   | 104    | 799               | 522             | 222         |                |
| Otter Trawl                        | all                       | all                             | MA     | large       | 76                 | 177     | 177   | 177    | 177               | 251             | 65          |                |
| Scallop Trawl                      | open                      | limited                         | MA     | all         | 3                  | 12      | 12    | 12     | 12                | 12              | 12          | pilot          |
| Scallop Trawl                      | open                      | general                         | MA     | all         | 39                 | 25      | 25    | 25     | 25                | 25              | 19          | pilot          |
| Shrimp Trawl                       | all                       | all                             | NE     | all         | 12                 | 42      | 42    | 42     | 42                | 42              | 43          |                |
| Shrimp Trawl                       | all                       | all                             | MA     | all         | 2                  | 13      | 13    | 13     | 13                | 13              | 9           | pilot          |
| Sink, Anchor, Drift Gillnet        | all                       | all                             | NE     | small       | 1                  | 12      | 12    | 12     | 12                | 12              | 12          | pilot          |
| Sink, Anchor, Drift Gillnet        | all                       | all                             | NE     | large       | 772                | 104     | 844   | 104    | 966               | 2510            | 182         |                |
| Sink, Anchor, Drift Gillnet        | all                       | all                             | NE     | xlg         | 569                | 94      | 995   | 94     | 973               | 2176            | 118         |                |
| Sink, Anchor, Drift Gillnet        | all                       | all                             | MA     | small       | 358                | 977     | 58    | 58     | 58                | 395             | 58          | pilot for fish |
| Sink, Anchor, Drift Gillnet        | all                       | all                             | MA     | large       | 81                 | 105     | 27    | 27     | 27                | 144             | 91          | pilot for fish |
| Sink, Anchor, Drift Gillnet        | all                       | all                             | MA     | xlg         | 142                | 519     | 793   | 51     | 418               | 796             | 39          | pilot for fish |
| Scallop Dredge                     | open                      | limited                         | NE     | all         | 36                 | 206     | 25    | 25     | 25                | 72              | 24          |                |
| Scallop Dredge                     | open                      | limited                         | MA     | all         | 78                 | 378     | 36    | 36     | 36                | 36              | 25          |                |
| Scallop Dredge                     | open                      | general                         | NE     | all         | 20                 | 71      | 71    | 71     | 71                | 71              | 69          | pilot          |
| Scallop Dredge                     | open                      | general                         | MA     | all         | 39                 | 69      | 69    | 69     | 69                | 69              | 13          |                |
| Scallop Dredge                     | closed                    | limited                         | NE     | all         | 86                 | 243     | 15    | 15     | 15                | 263             | 25          |                |
| Scallop Dredge                     | closed                    | limited                         | MA     | all         | 35                 | 12      | 12    | 12     | 12                | 12              | 21          |                |
| Scallop Dredge                     | closed                    | general                         | NE     | all         | 0                  | 12      | 12    | 12     | 12                | 12              | 12          | pilot          |
| Scallop Dredge                     | closed                    | general                         | MA     | all         | 1                  | 15      | 15    | 15     | 15                | 15              | 15          | pilot          |
| Mid-water paired & single Trawl    | all                       | all                             | NE     | all         | 99                 | 21      | 21    | 196    | 92                | 218             | 124         |                |
| Mid-water paired & single Trawl    | all                       | all                             | MA     | all         | 14                 | 12      | 12    | 12     | 12                | 12              | 33          |                |
| Fish Pots/ Traps                   | all                       | all                             | NE     | all         | 0                  | 19      | 19    | 19     | 19                | 19              | 19          | pilot          |
| Fish Pots/ Traps                   | all                       | all                             | MA     | all         | 8                  | 37      | 37    | 37     | 37                | 37              | 34          | pilot          |
| Purse Seine                        | all                       | all                             | NE     | all         | 26                 | 10      | 10    | 10     | 10                | 10              | 61          |                |
| Purse Seine                        | all                       | all                             | MA     | all         | 2                  | 9       | 9     | 9      | 9                 | 9               | 9           | pilot          |
| Hand Line                          | all                       | all                             | NE     | all         | 9                  | 68      | 68    | 68     | 68                | 68              | 130         | pilot          |
| Hand Line                          | all                       | all                             | MA     | all         | 3                  | 126     | 126   | 126    | 126               | 126             | 126         | pilot          |
| Scottish Seine                     | all                       | all                             | NE     | all         | 8                  | 12      | 12    | 12     | 12                | 12              | 21          | pilot          |
| Clam Quahog Dredge                 | all                       | all                             | NE     | all         | 0                  | 69      | 69    | 69     | 69                | 69              | 69          | pilot          |
| Clam Quahog Dredge                 | all                       | all                             | MA     | all         | 0                  | 69      | 69    | 69     | 69                | 69              | 69          | pilot          |
| Crab Pots                          | all                       | all                             | NE     | all         | 0                  | 12      | 12    | 12     | 12                | 12              | 12          | pilot          |
| Crab Pots                          | all                       | all                             | MA     | all         | 0                  | 27      | 27    | 27     | 27                | 27              | 27          | pilot          |
| Lobster Pots                       | all                       | all                             | NE     | all         | 3                  | 353     | 353   | 353    | 353               | 353             | 353         | pilot          |
| Lobster Pots                       | all                       | all                             | MA     | all         | 0                  | 75      | 75    | 75     | 75                | 75              | 75          | pilot          |
| Total Trips                        |                           |                                 |        |             |                    | 5,318   | 4,689 | 4,189  | 6,139             | 11,444          | 2,689       |                |
| Total Trips excluding shaded cells |                           |                                 |        |             |                    | 5,318   | 4,352 | 3,934  | 6,139             | 11,444          | 2,689       |                |

Note: Gray-shade cells indicate unlikely species/gear combinations.