Table 1. Commercial landings (metric tons, live weight) of American plaice from Gulf of Maine, Georges Bank, Southern New England, and the Mid-Atlantic regions (NAFO Div. 5Y, 5Z and 6).

| Year | | Gulf of I | Maine | | George | s Bank | | | Souther | n New I | Fnalanc | | Mid - | Atlanti | <u>- 1</u> | | Grand T | otal |
|-------|-------|-----------|--------|------|--------|--------|-------|-------|---------|---------|---------|-----|-------|---------|------------|-------|---------|-------|
| i cai | USA | CA | Total | USA | | USSR | Other | Total | USA | USSR | | | | Other | Total | USA | Other | Total |
| 1960 | 620 | 1.0 | 621 | 689 | 0, 1 | 000.1 | 010. | 689 | - | - | - | - | 0 | - | 0 | 1309 | 1 | 1310 |
| 1961 | 692 | | 692 | 830 | | | | 830 | _ | _ | - | - | 0 | _ | 0 | 1522 | _ | 1522 |
| 1962 | 694 | | 694 | 1233 | 44 | | | 1277 | - | - | _ | - | 0 | _ | 0 | 1927 | 44 | 1971 |
| 1963 | 693 | | 693 | 1489 | 127 | 24 | | 1640 | _ | _ | _ | - | 0 | _ | 0 | 2182 | 151 | 2333 |
| 1964 | 811 | | 811 | 2800 | 177 | | 11 | 2988 | _ | _ | _ | - | 0 | _ | 0 | 3611 | 188 | 3799 |
| 1965 | 967 | | 967 | 2376 | 180 | 112 | | 2668 | - | - | _ | - | 0 | _ | 0 | 3343 | 292 | 3635 |
| 1966 | 955 | 2.0 | 957 | 2388 | 242 | 279 | 1 | 2910 | _ | _ | _ | - | 0 | _ | 0 | 3343 | 524 | 3867 |
| 1967 | 1066 | 6.0 | 1,072 | 2166 | 203 | 1018 | 10 | 3397 | _ | _ | _ | - | 4 | _ | 4 | 3236 | 1237 | 4473 |
| 1968 | 904 | 5.0 | 909 | 1695 | 173 | 193 | 5 | 2066 | 637 | 145 | - | 782 | 18 | 2 | 20 | 3254 | 523 | 3777 |
| 1969 | 1059 | 7.0 | 1,066 | 1738 | 71 | 63 | 17 | 1889 | 505 | 349 | - | 854 | 130 | 0 | 130 | 3432 | 507 | 3939 |
| 1970 | 895 | | 895 | 1603 | 92 | 927 | 658 | 3280 | 88 | 18 | 40 | 146 | 8 | 0 | 8 | 2594 | 1735 | 4329 |
| 1971 | 648 | 5.0 | 653 | 1511 | 38 | 228 | 296 | 2073 | 11 | 112 | 206 | 329 | 6 | 2 | 8 | 2176 | 887 | 3063 |
| 1972 | 569 | | 569 | 1222 | 22 | 358 | | 1602 | 3 | 71 | | 74 | 0 | _ | 0 | 1794 | 451 | 2245 |
| 1973 | 687 | | 687 | 910 | 38 | 289 | | 1237 | 5 | 158 | _ | 163 | 0 | _ | 0 | 1602 | 485 | 2087 |
| 1974 | 945 | 2.0 | 947 | 1039 | 27 | 16 | 2 | 1084 | 92 | 4 | _ | 96 | 0 | _ | 0 | 2076 | 51 | 2127 |
| 1975 | 1507 | | 1,507 | 913 | 25 | 148 | _ | 1086 | 3 | | - | 3 | 0 | _ | 0 | 2423 | 173 | 2596 |
| 1976 | 2550 | | 2,550 | 948 | 24 | 3 | | 975 | 10 | _ | _ | 10 | 1 | _ | 1 | 3509 | 27 | 3536 |
| 1977 | 5647 | | 5,647 | 1408 | 35 | 50 | | 1493 | 6 | 78 | _ | 84 | 7 | _ | 7 | 7068 | 163 | 7231 |
| 1978 | 7287 | 30.0 | 7,317 | 2193 | 77 | 00 | | 2270 | 15 | - | _ | 15 | 8 | _ | 8 | 9503 | 107 | 9610 |
| 1979 | 8835 | | 8,835 | 2478 | 23 | | | 2501 | 13 | _ | 7 | 20 | 4 | _ | 4 | 11330 | 30 | 11360 |
| 1980 | 11139 | | 11,139 | 2399 | 43 | | 5 | 2447 | 10 | _ | • | 10 | 1 | _ | 1 | 13549 | 48 | 13597 |
| 1981 | 10327 | 1.0 | 10,328 | 2482 | 15 | | 2 | 2499 | 26 | _ | 2 | 28 | 46 | _ | 46 | 12881 | 20 | 12901 |
| 1982 | 11147 | | 11,147 | 3935 | 27 | | 1 | 3963 | 35 | _ | 2 | 37 | 9 | _ | 9 | 15126 | 30 | 15156 |
| 1983 | 9142 | 7.0 | 9,149 | 3955 | 30 | | | 3985 | 40 | _ | _ | 40 | 4 | _ | 4 | 13141 | 37 | 13178 |
| 1984 | 6833 | 2.0 | 6,835 | 3277 | 6 | | | 3283 | 17 | _ | | 17 | 7 | _ | 7 | 10134 | 8 | 10142 |
| 1985 | 4766 | 1.0 | 4,767 | 2249 | 40 | | | 2289 | 12 | _ | | 12 | 2 | _ | 2 | 7029 | 41 | 7070 |
| 1986 | 3319 | | 3,319 | 1146 | 34 | | | 1180 | 4 | _ | | 4 | 3 | _ | 3 | 4472 | 34 | 4506 |
| 1987 | 2766 | | 2,766 | 1032 | 48 | | | 1080 | 2 | _ | | 2 | 1 | _ | 1 | 3801 | 48 | 3849 |
| 1988 | 2271 | | 2,271 | 1097 | 108 | | | 1205 | 13 | _ | | 13 | 1 | _ | 1 | 3382 | 108 | 3490 |
| 1989 | 1646 | | 1,646 | 703 | 68 | | | 771 | 1 | _ | | 1 | 3 | _ | 3 | 2353 | 68 | 2421 |
| 1990 | 1802 | | 1,802 | 639 | 52 | | | 691 | 2 | _ | | 2 | 2 | _ | 2 | 2445 | 52 | 2497 |
| 1991 | 2936 | | 2,936 | 1310 | 26 | | | 1336 | 15 | _ | | 15 | 0 | _ | 0 | 4261 | 26 | 4287 |
| 1992 | 4564 | | 4,564 | 1838 | 3 | | | 1841 | 10 | _ | | 10 | 4 | _ | 4 | 6416 | 3 | 6419 |
| 1993 | 3866 | | 3,866 | 1839 | - | | | 1839 | 11 | _ | | 11 | 4 | _ | 4 | 5720 | - | 5720 |
| 1994 | 3553 | | 3553 | 1388 | 30 | | | 1418 | 29 | _ | | 29 | 8 | _ | 8 | 4977 | 30 | 5007 |
| 1995 | 3132 | | 3132 | 1443 | 2 | | | 1445 | 34 | _ | | 34 | 8 | _ | 8 | 4617 | 2 | 4619 |
| 1996 | 3018 | | 3018 | 1310 | 2 | | | 1312 | 31 | _ | | 31 | 4 | _ | 4 | 4363 | 2 | 4365 |
| 1997 | 2306 | | 2306 | 1546 | 65 | | | 1611 | 37 | _ | | 37 | 1 | _ | 1 | 3890 | 65 | 3955 |
| 1998 | 2290 | | 2290 | 1317 | 20 | | | 1337 | 20 | _ | | 20 | 4 | _ | 4 | 3631 | 20 | 3651 |
| 1999 | 1631 | | 1631 | 1449 | 123 | | | 1572 | 23 | _ | | 23 | 5 | _ | 5 | 3108 | 123 | 3231 |
| 2000 | 2594 | | 2594 | 1572 | 143 | | | 1715 | 22 | _ | | 22 | 9 | _ | 9 | 4196 | 143 | 4339 |
| 2001 | 2736 | 0.38 | 2736 | 1618 | 50 | | | 1668 | 44 | _ | | 44 | 2 | _ | 2 | 4400 | 50 | 4451 |
| 2002 | 2005 | 0.52 | 2006 | | 98.72 | | | 1472 | 15 | _ | | 15 | 5 | _ | 5 | 3399 | 99 | 3498 |
| 2003 | 1520 | 0.12 | 1520 | 874 | 60.18 | | | 934 | 29 | _ | | 29 | 3 | _ | 3 | 2426 | 60 | 2487 |
| 2004 | 1045 | 0.10 | 1046 | 633 | 2.87 | | | 636 | 28 | _ | | 28 | 4 | _ | 4 | 1710 | 3.0 | 1713 |
| 2005 | 752 | 0.28 | 753 | 569 | 4.95 | | | 574 | 13 | _ | | 13 | 2 | _ | 2 | 1337 | 5.2 | 1343 |
| 2006 | 583 | 0.02 | 583 | | 10.71 | | | 504 | 17 | _ | | 17 | 1 | _ | 1 | 1094 | 10.7 | 1105 |
| 2007 | 601 | 0.06 | 601 | 375 | 2.03 | | | 377 | 6 | _ | | 6 | 6 | _ | 6 | 988 | 2.1 | 990 |
| 2008 | 703 | 0.23 | 703 | 388 | 0.09 | | | 388 | 4 | _ | | 4 | 5 | _ | 5 | 1100 | 0.3 | 1100 |
| 2009 | 866 | 0.02 | 866 | 501 | 0.17 | | | 501 | 6 | _ | | 6 | 7 | _ | 7 | 1380 | 0.2 | 1380 |
| 2010 | 901 | 0.11 | 902 | 492 | 0.29 | | | 492 | 8 | _ | | 8 | 2 | _ | 2 | 1404 | 0.4 | 1404 |
| 2011 | 771 | 0.11 | 771 | 593 | 1.28 | | | 595 | 2 | _ | | 2 | 1 | _ | 1 | 1368 | 1.3 | 1369 |
| 2012 | 762 | 0 | 762 | 698 | 0.30 | | | 699 | 1 | _ | | 1 | 0 | _ | 0 | 1462 | 0.3 | 1463 |
| 2013 | 764 | 0.05 | 764 | 528 | 0.11 | | | 528 | 2 | _ | | 2 | 4 | _ | 4 | 1297 | 0.2 | 1297 |
| 2013 | 738 | 0.03 | 738 | 498 | 0.04 | | | 498 | 0 | _ | | 0 | 2 | - | 2 | 1239 | 0.2 | 1239 |
| 2015 | 828 | 0 | 828 | 400 | 0.00 | | | 400 | 2 | _ | | 2 | 0 | _ | 0 | 1230 | | 1230 |
| 2016 | 718 | 0 | 718 | 287 | 0.00 | | | 287 | 1 | _ | | 1 | 3 | _ | 3 | 1009 | | 1009 |
| 2017 | 871 | 0 | 871 | | 0.006 | | | 259 | 1 | _ | | 1 | 3 | _ | 3 | 1134 | | 1134 |
| 2018 | 911 | 0 | 911 | | 0.183 | | | 171 | | _ | | 0 | | - | 4 | 1086 | | 1086 |
| 2010 | 311 | U | 911 | 171 | 5.105 | | | 111 | U | - | | J | , , | - | 7 | 1000 | | 1000 |

Table 2. Percentage of landings of American plaice by gear type.

GEAR TYPE

| | Otter | Shrimp | Sink | |
|------|-------|--------|----------|-------|
| YEAR | Trawl | Trawl | Gill Net | Other |
| 1980 | 96.8 | 0.7 | 8.0 | 1.8 |
| 1981 | 96.5 | 2.2 | 0.7 | 0.6 |
| 1982 | 96.3 | 2.0 | 8.0 | 0.9 |
| 1983 | 96.3 | 1.7 | 0.3 | 1.7 |
| 1984 | 97.2 | 1.0 | 0.2 | 1.6 |
| 1985 | 96.9 | 1.6 | 0.1 | 1.4 |
| 1986 | 96.1 | 2.5 | 0.3 | 1.1 |
| 1987 | 95.5 | 2.6 | 0.6 | 1.5 |
| 1988 | 96.2 | 1.7 | 0.6 | 1.6 |
| 1989 | 95.5 | 1.4 | 1.2 | 2.0 |
| 1990 | 93.4 | 2.2 | 2.0 | 2.5 |
| 1991 | 94.8 | 0.9 | 0.9 | 3.3 |
| 1992 | 96.1 | 1.3 | 0.1 | 2.5 |
| 1993 | 95.9 | 1.2 | 0.1 | 2.8 |
| 1994 | 95.7 | 0.0 | 3.2 | 1.1 |
| 1995 | 94.9 | 0.1 | 3.8 | 1.2 |
| 1996 | 95.6 | 0.1 | 3.3 | 1.0 |
| 1997 | 95.7 | 0.1 | 3.0 | 1.2 |
| 1998 | 91.3 | 0.1 | 7.3 | 1.3 |
| 1999 | 97.3 | 0.1 | 2.0 | 0.6 |
| 2000 | 98.3 | 0.1 | 1.1 | 0.5 |
| 2001 | 98.2 | 0.1 | 1.3 | 0.4 |
| 2002 | 98.8 | 0.0 | 0.6 | 0.6 |
| 2003 | 96.7 | 0.2 | 0.9 | 2.2 |
| 2004 | 96.2 | 0.0 | 1.0 | 2.8 |
| 2005 | 94.4 | 0.0 | 2.2 | 3.4 |
| 2006 | 95.9 | 0.0 | 1.3 | 2.7 |
| 2007 | 98.3 | 0.0 | 1.0 | 0.7 |
| 2008 | 98.6 | 0.2 | 0.9 | 0.3 |
| 2009 | 94.7 | 0.0 | 2.1 | 3.2 |
| 2010 | 95.1 | 0.0 | 0.8 | 4.0 |
| 2011 | 92.9 | 0.0 | 1.2 | 6.0 |
| 2012 | 91.0 | 0.0 | 0.6 | 8.4 |
| 2013 | 89.2 | 0.0 | 0.9 | 9.9 |
| 2014 | 93.4 | 0.0 | 1.9 | 4.8 |
| 2015 | 98.8 | 0.0 | 0.8 | 0.4 |
| 2016 | 98.5 | 0.0 | 1.0 | 0.5 |
| 2017 | 97.7 | 0.0 | 1.0 | 1.2 |
| 2018 | 98.0 | 0.0 | 1.1 | 1.0 |
| | | | | |

Table 3. Landings by market category (Sm = small + peewee; Md=medium; Lg=large+jumbo; Un=unclassified) for statistical areas 511-515,521-522, 525-526, 561-562 for American plaice.

| _ | (| Quarter | 1 | | (| Quarter | 2 | | | Quarter | 3 | | | Quarter | 4 | |
|--------------|------------|----------|----------|----------|------------|----------|----------|----------|-----------|----------|----------|----------|------------|----------|----------|-----------|
| YEAR _ | Sm | Md | Lg | Un | Sm | Md | Lg | Un | Sm | Md | Lg | Un | Sm | Md | Lg | <u>Un</u> |
| 1980 | 565 | 0 | 1527 | 3 | 1398 | 0 | 3667 | 100 | 1026 | 0 | 2399 | 16 | 479 | 0 | 1488 | 1 |
| 1981 | 730 | 0 | 1775 | 26 | 1233 | 0 | 3557 | 253 | 993 | 0 | 2209 | 34 | 457 | 0 | 1532 | 2 |
| 1982 | 581 | 0 | 1468 | 11 | 1353 | 5 | 4350 | 318 | 1191 | 524 | 2643 | 131 | 571 | 299 | 1570 | 40 |
| 1983 | 580 | 356 | 1624 | 5 | 1488 | 713 | 3148 | 57 | 1027 | 497 | 1816 | 18 | 399 | 276 | 1090 | 3 |
| 1984 | 431 | 247 | 1071 | 10 | 954 | 649 | 2355 | 27 | 812 | 479 | 1444 | 19 | 372 | 309 | 909 | 13 |
| 1985 | 512 | 253 | 708 | 14 | 709 | 511 | 1548 | 22 | 503 | 369 | 1046 | 13 | 239 | 188 | 521 | 9 |
| 1986 | 187 | 132 | 409 | 13 | 539 | 350 | 1014 | 33 | 342 | 201 | 536 | 11 | 202 | 146 | 349 | 6 |
| 1987 | 169 | 108 | 304 | 20 | 460 | 275 | 744 | 43 | 367 | 203 | 475 | 20 | 199 | 126 | 246 | 35 |
| 1988 | 203 | 94 | 279 | 39 | 447 | 244 | 529 | 75 | 433 | 186 | 303 | 47 | 155 | 88 | 143 | 36 |
| 1989 | 117 | 76 | 158 | 25 | 300 | 208 | 423 | 68 | 222 | 126 | 222 | 29 | 139 | 81 | 135 | 21 |
| 1990 | 101 | 66 | 142 | 19 | 269 | 194 | 317 | 49 | 323 | 196 | 273 | 20 | 190 | 118 | 146 | 19 |
| 1991 | 138 | 78 | 116 | 20 | 594 | 347 | 367 | 61 | 773 | 378 | 353 | 40 | 435 | 263 | 241 | 41 |
| 1992 | 302 | 174 | 291 | 35 | 902 | 634 | 805 | 112 | 887 | 624 | 674 | 80 | 426 | 278 | 394 | 17 |
| 1993 | 277 | 183 | 413 | 17 | 706 | 516 | 868 | 81 | 589 | 371 | 602 | 27 | 423 | 232 | 401 | 14 |
| 1994 | 236 | 120 | 243 | 22 | 685 | 434 | 711 | 15 | 695 | 387 | 506 | 8 | 437 | 218 | 345 | 6 |
| 1995 | 214 | 117 | 198 | 10 | 811 | 425 | 584 | 29 | 800 | 287 | 326 | 9 | 436 | 178 | 215 | 4 |
| 1996 | 240 | 108 | 180 | 4 | 807 | 343 | 434 | 22 | 913 | 242 | 253 | 10 | 491 | 159 | 183 | 3 |
| 1997 | 322 | 99 | 158 | 2 | 694 | 390 | 360 | 56 | 547 | 403 | 244 | 15 | 318 | 176 | 137 | 2 |
| 1998 | 175 | 147 | 153 | 2 | 637 | 478 | 391 | 30 | 404 | 336 | 264 | 5 | 221 | 178 | 232 | 6 |
| 1999 | 162 | 163 | 225 | 4 | 395 | 330 | 368 | 13 | 352 | 233 | 242 | 2 | 262 | 178 | 199 | 3 |
| 2000 | 183 | 181 | 225 | 1 | 428 | 389 | 373 | 14 | 657 | 390 | 326 | 8 | 396 | 308 | 324 | 10 |
| 2001 | 240 | 220 | 332 | 18 | 527 | 430 | 439 | 21 | 593 | 359 | 325 | 4 | 378 | 253 | 282 | 3 |
| 2002 | 314 | 243 | 310 | 2 | 343 | 270 | 260 | 18 | 510 | 243 | 216 | 3 | 313 | 184 | 184 | 2 |
| 2003 | 210 | 136 | 175 | 2 | 247 | 209 | 152 | 11 | 391 | 216 | 152 | 3 | 224 | 158 | 143 | 0 |
| 2004 | 155 | 89 | 107 | 3 | 153 | 103 | 99 | 5 | 307 | 185 | 119 | 2 | 173 | 114 | 98 | 0 |
| 2005 | 142 | 90 | 97 | 2 | 142 | 112 | 75 | 4 | 202 | 89 | 69 | 7 | 159 | 83 | 74 | 1 |
| 2006 | 135 | 72 | 82 | 1 | 96 | 87 | 58 | 6 | 142 | 87 | 71 | 1 | 131 | 57 | 79 | 2 |
| 2007 | 99 | 40 | 55 | 2 | 117 | 59 | 43 | 9 | 207 | 65 | 44 | 2 | 139 | 57 | 56 | 2 |
| 2008 | 118 | 52 | 66 | 5 | 115 | 45 | 29 | 5 | 230 | 65 | 40 | 3 | 205 | 58 | 71 | 2 |
| 2009 | 220 | 55 | 92 | 0 | 163 | 38 | 25 | 3 | 291 | 76 | 48 | 4 | 241 | 57 | 81 | 3 |
| 2010 | 233 | 68 | 101 | 16 | 133 | 38 | 23 | 14 | 245 | 68 | 34 | 43 | 230 | 59 | 43 | 63 |
| 2011 | 190 | 61 | 42 | 53 | 164 | 45 | 27 | 22 | 236 | 53 | 24 | 44 | 254 | 74 | 45 | 52 |
| 2012 | 206 | 76 | 98 | 0 | 215 | 57 | 35 | 26 | 264 | 92 | 35 | 48 | 198 | 97 | 36 | 54 |
| 2013 | 152 | 65 | 46 | 42 | 172 | 86 | 34 | 25 | 216 | 90 | 27 | 41 | 186 | 122 | 40 | 71 |
| 2014 | 134 | 70 | 44 | 56 | 153 | 99 | 40 | 33 | 188 | 118 | 43 | 38 | 119 | 85 | 54 | 73 |
| 2015 | 86 | 37 | 34 | 68 | 161 | 73 | 58 | 36 | 136 | 81 | 58 | 34 | 109 | 77 | 85 | 95 |
| 2016 | 99 | 53 | 55 | 80 | 101 | 56 | 65 | 49 | 57 | 38 | 45 | 20 | 68 | 65 | 88 | 68 |
| | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | |
| 2017 2018 | 114 127 | 83 55 | 70 37 | 67 60 | 138 159 | 72 64 | 65 47 | 33 40 | 89 108 | 48 54 | 46 30 | 48 43 | 117 107 | 63 71 | 95 45 | 85 67 |

Table 4. Sampling of American plaice commercial landings, by market category, for the Gulf of Maine and Georges Bank areas (NAFO Division 5Y and 5Z), 2011-2018. Outline indicates samples pooled to estimate landings at age.

| Small | Medium | Large | Number of tons landed / sample |
|--|---|--|-----------------------------------|
| Q1 Q2 Q3 Q4 | Q1 Q2 Q3 Q4 | Q1 Q2 Q3 Q4 | Sm. Med. Lrg. |
| 2011 GB 4 7 4 1 GM 1 4 4 6 total 5 11 8 7 | 3 3 5 3 3 3 3 3 6 6 8 6 | 3 6 5 2 4 9 3 6 7 15 8 8 | 27 9 4 |
| GB 4 3 1 2 2012 GM 6 3 8 5 total 10 6 9 7 | 6 4 2 1 3 3 7 6 9 7 9 7 | 7 8 4 7 4 2 8 5 11 10 12 12 | 28 10 5 |
| GB 1 4 4 4 2013 GM 4 3 3 4 total 5 7 7 8 | 4 7 4 6 3 2 3 2 7 9 7 8 | 7 5 4 6 4 4 3 4 11 9 7 10 | 27 12 4 |
| GB 2 4 2 7 2014 GM 1 1 3 3 total 3 5 5 10 | 4 3 2 4 1 3 2 2 5 6 4 6 | 4 3 2 6 4 4 1 3 8 7 3 9 | 26 18 7 |
| GB 1 5 0 6 2015 GM 6 4 5 6 total 7 9 5 12 | 2 2 3 4 4 6 6 4 6 8 9 8 | 6 2 3 4 2 5 3 5 8 7 6 9 | 15 9 8 |
| GB 6 7 4 5 2016 GM 9 6 7 6 total 15 13 11 11 | 5 4 4 5 3 4 5 3 8 8 9 8 | 7 10 4 4 3 5 3 4 10 15 7 8 | 7 6 6 |
| GB 6 8 8 6 2017 GM 8 7 7 6 total 14 15 15 12 | 3 5 5 4 4 4 5 3 7 9 10 7 | 4 4 6 3 5 5 4 4 9 9 10 7 | 8 8 8 |
| GB 6 8 2 1 2018 GM 7 6 5 4 total 13 14 7 5 | 4 5 2 1 4 3 3 2 8 8 5 3 | 4 2 1 2 3 4 3 3 7 6 4 5 | 13 10 7 |

Table 5. Discards of American plaice for Gulf of Maine and Georges Bank large and small mesh otter trawl, gillnet, shrimp and scallop fisheries; estimated using SBRM method.

Gulf of Maine TOTAL

| | GM larg | na mask | trawl | GM sma | ll mael | trawl | GI/ | 1 gillne | 4 | CIV | l shrim | n | Gulf | of Mai | na l |
|------|---------|---------|---------|--------|---------|---------|-------|----------|---------|-------|---------|---------|--------|--------|---------|
| Year | mt | | # trips | mt | CV | # trips | mt | _ | # trips | mt | | # trips | mt | | # trips |
| 1989 | 632.1 | 0.31 | 38 | 52.1 | 0.37 | 23.0 | 4.8 | 0.21 | # trips | 381.6 | 0.22 | 40.0 | 1070.6 | 0.20 | # trips |
| | | 0.64 | | | | | 56.0 | | | | 0.22 | | | | |
| 1990 | 813.1 | | 26 | 152.8 | 1.12 | 8.0 | | 0.44 | 120.0 | 535.0 | | 31.0 | 1556.8 | 0.36 | 185 |
| 1991 | 1382.7 | 0.36 | 48 | 9.4 | 0.31 | 29.0 | 23.3 | 0.19 | 801.0 | 216.1 | 0.13 | 52.0 | 1631.4 | 0.31 | 930 |
| 1992 | 567.4 | 0.36 | 44 | 22.7 | 0.53 | 15.0 | 29.9 | 0.12 | 896.0 | 126.8 | 0.19 | 82.0 | 746.8 | 0.28 | 1037 |
| 1993 | 317.4 | 0.42 | 17 | 0.0 | | 6.0 | 50.3 | 0.14 | 560.0 | 30.9 | 0.23 | 81.0 | 398.6 | 0.33 | 664 |
| 1994 | 559.5 | 0.91 | 6 | 0.0 | 0.40 | 20.0 | 37.6 | 0.68 | 85.0 | 33.7 | 0.22 | 77.0 | 630.8 | 0.81 | 168 |
| 1995 | 389.5 | 0.47 | 24 | 38.6 | 0.18 | 30.0 | 144.3 | 0.31 | 69.0 | 109.5 | 0.18 | 73.0 | 682.0 | 0.28 | 196 |
| 1996 | 209.3 | 0.79 | 11 | 53.4 | 0.13 | 41.0 | 62.8 | 0.50 | 46.0 | 141.2 | 0.28 | 35.0 | 466.8 | 0.37 | 133 |
| 1997 | 389.8 | 0.57 | 5 | 95.1 | 0.00 | 3.0 | 72.6 | 0.49 | 33.0 | 44.8 | 0.21 | 16.0 | 602.3 | 0.37 | 57 |
| 1998 | 490.9 | 1.10 | 5 | 0.0 | | | 14.3 | 0.37 | 78.0 | 28.7* | | | 505.2 | 1.07 | 83 |
| 1999 | 573.7 | 0.38 | 22 | 6.2 | 0.63 | 11.0 | 9.0 | 0.62 | 73.0 | 26.0* | | | 588.9 | 0.37 | 106 |
| 2000 | 65.6 | 0.33 | 80 | 0.0 | | | 23.3 | 0.33 | 81.0 | 32.9* | | | 88.9 | 0.26 | 161 |
| 2001 | 196.8 | 0.38 | 112 | 24.1 | 0.00 | 4.0 | 20.1 | 0.54 | 47.0 | 29.5* | 0.37 | 3.0 | 248.4 | 0.31 | 166 |
| 2002 | 169.5 | 0.46 | 150 | 15.1 | 0.28 | 34.0 | 4.1 | 0.31 | 80.0 | 3.0* | | | 188.8 | 0.41 | 264 |
| 2003 | 180.3 | 0.14 | 251 | 8.4 | 0.31 | 19.0 | 5.8 | 0.37 | 295.0 | 22.0 | 0.27 | 15.0 | 216.6 | 0.12 | 580 |
| 2004 | 250.9 | 0.32 | 251 | 7.4 | 0.23 | 70.0 | 3.5 | 0.28 | 775.0 | 6.1 | 0.32 | 12.0 | 268.0 | 0.30 | 1108 |
| 2005 | 204.6 | 0.15 | 499 | 7.2 | 0.36 | 70.0 | 2.5 | 0.27 | 651.0 | 8.0 | 0.19 | 17.0 | 222.3 | 0.14 | 1237 |
| 2006 | 122.0 | 0.37 | 203 | 12.9 | 0.37 | 24.0 | 1.0 | 0.69 | 128.0 | 6.5 | 0.43 | 20.0 | 142.3 | 0.32 | 375 |
| 2007 | 61.8 | 0.14 | 225 | 6.0 | 0.23 | 16.0 | 1.6 | 0.43 | 118.0 | 13.0 | 0.29 | 14.0 | 82.4 | 0.12 | 373 |
| 2008 | 94.1 | 0.14 | 254 | 4.5 | 0.40 | 12 | 3.0 | 0.23 | 150 | 11.3 | 0.29 | 19 | 112.8 | 0.12 | 435 |
| 2009 | 83.2 | 0.18 | 410 | 17.5 | 0.42 | 22 | 4.1 | 0.35 | 276 | 11.1 | 0.34 | 12 | 115.9 | 0.15 | 720 |
| 2010 | 140.9 | 0.08 | 609 | 54.6 | 0.45 | 30 | 3.1 | 0.11 | 1239 | 39.9 | 0.30 | 15 | 238.6 | 0.12 | 1893 |
| 2011 | 90.6 | 0.05 | 1005 | 2.6 | 0.48 | 24 | 3.0 | 0.07 | 1438 | 13.8 | 0.00 | 1 | 110.0 | 0.04 | 2468 |
| 2012 | 122.6 | 0.06 | 1120 | 4.0 | 0.28 | 31 | 2.7 | 0.07 | 1180 | 31.4 | 0.31 | 19 | 160.7 | 0.07 | 2350 |
| 2013 | 75.2 | 0.08 | 642 | 8.9 | 0.16 | 63 | 1.9 | 0.15 | 516 | 1.7 | 0.37 | 24 | 87.7 | 0.07 | 1245 |
| 2014 | 31.9 | 0.07 | 617 | 3.0 | 0.21 | 50 | 1.3 | 0.14 | 755 | 0.0 | | | 36.1 | 0.07 | 1422 |
| 2015 | 38.1 | 0.10 | 395 | 2.2 | 0.26 | 128 | 1.0 | 0.24 | 311 | 0.0 | | | 42.5 | 0.03 | 834 |
| 2016 | 53.1 | 0.14 | 323 | 5.3 | 0.28 | 103 | 0.7 | 0.27 | 212 | 0.0 | | | 60.2 | 0.12 | 638 |
| 2017 | 67.7 | 0.14 | 289 | 2.9 | 0.25 | 202 | 0.6 | 0.39 | 158 | 0.0 | | | 71.3 | 0.13 | 649 |
| 2018 | 68.2 | 0.11 | 370 | 1.6 | 0.33 | 60 | 0.5 | 0.27 | 153 | 0.0 | | | 70.3 | 0.11 | 583 |

Table 5 continued. Discards of American plaice for Gulf of Maine and Georges Bank large and small mesh otter trawl, gillnet, shrimp and scallop fisheries; estimated using SBRM method.

| George | es Bank | | | | | | | | | | | | | Т | OTAL | |
|--------|---------|---------|---------|--------|---------|---------|----|----|---------|---------|--------|----------|---------|-------|--------|---------|
| | GB larg | je mesh | trawl | GB sma | II mesh | n trawl | | GB | gill ne | t | GB sca | llop,lir | nited | Geor | ges Ba | nk |
| Year | mt | CV | # trips | mt | CV | # trips | n | nt | CV i | # trips | mt | CV | # trips | mt | CV | # trips |
| 1989 | 122.5 | 0.46 | 26 | 11.1 | 0.62 | 24 | 0. | 0 | | 23 | 0.0 | | | 133.7 | 0.43 | 73 |
| 1990 | 81.4 | 0.79 | 25 | 5.8 | 0.69 | 16 | 0. | 1 | 0.72 | 29 | 0.0 | | | 87.3 | 0.74 | 70 |
| 1991 | 211.3 | 0.60 | 28 | 4.8 | 1.10 | 13 | 0. | 4 | 0.67 | 161 | 14.5 | 0.00 | 1 | 231.1 | 0.55 | 203 |
| 1992 | 60.2 | 0.50 | 29 | 1.9 | 1.39 | 13 | 0. | 1 | 0.91 | 137 | 3.1 | 0.44 | 10 | 65.2 | 0.46 | 189 |
| 1993 | 116.9 | 0.52 | 24 | 0.3 | 1.45 | 6 | 0. | 0 | 2.56 | 62 | 113.6 | 0.47 | 11 | 230.9 | 0.35 | 103 |
| 1994 | 47.7 | 1.13 | 26 | 0.0 | | 2 | 0. | 0 | 2.63 | 38 | 2.4 | 1.11 | 7 | 50.2 | 1.08 | 73 |
| 1995 | 356.0 | 0.35 | 42 | 13.4 | 0.71 | 5 | 0. | 4 | 0.61 | 59 | 14.5 | 0.87 | 6 | 384.3 | 0.32 | 112 |
| 1996 | 143.5 | 0.69 | 18 | 4.4 | 0.00 | 3 | 1. | 0 | 0.96 | 29 | 1.5 | 0.38 | 13 | 150.4 | 0.66 | 63 |
| 1997 | 232.2 | 0.47 | 16 | 0.1 | 0.00 | 4 | 1. | 9 | 1.01 | 15 | 44.9 | 0.56 | 11 | 279.2 | 0.40 | 46 |
| 1998 | 81.5 | 2.05 | 5 | 0.0 | | 1 | 0. | 4 | 1.48 | 43 | 48.4 | 0.61 | 9 | 130.2 | 1.30 | 58 |
| 1999 | 96.7 | 0.60 | 12 | 0.2 | 0.00 | 4 | 0. | 3 | 0.64 | 30 | 35.0 | 0.45 | 61 | 132.1 | 0.45 | 107 |
| 2000 | 156.2 | 0.32 | 21 | 40.0 | 1.06 | 6 | 0. | 7 | 0.98 | 44 | 39.6 | 0.25 | 227 | 236.6 | 0.28 | 298 |
| 2001 | 145.0 | 0.17 | 34 | 56.5 | 0.77 | 10 | 0. | 2 | 0.91 | 27 | 34.7 | 0.42 | 17 | 236.5 | 0.22 | 88 |
| 2002 | 99.9 | 0.24 | 70 | 2.5 | 0.81 | 17 | 0. | 0 | | 22 | 3.0 | 1.17 | 11 | 105.3 | 0.23 | 120 |
| 2003 | 55.8 | 0.21 | 150 | 28.5 | 0.35 | 23 | 0. | 3 | 0.59 | 93 | 19.1 | 0.79 | 11 | 103.6 | 0.21 | 277 |
| 2004 | 75.4 | 0.15 | 211 | 7.8 | 0.59 | 32 | 0. | 4 | 0.39 | 180 | 2.6 | 0.67 | 41 | 86.1 | 0.14 | 464 |
| 2005 | 54.1 | 0.09 | 710 | 9.0 | 0.23 | 97 | 0. | 1 | 1.84 | 167 | 12.3 | 0.54 | 80 | 75.5 | 0.11 | 1054 |
| 2006 | 122.6 | 0.12 | 362 | 15.5 | 0.98 | 24 | 0. | 0 | | 47 | 5.4 | 0.65 | 110 | 143.5 | 0.15 | 543 |
| 2007 | 149.5 | 0.12 | 373 | 6.8 | 0.47 | 17 | 1. | 2 | 1.95 | 115 | 6.5 | 0.47 | 106 | 164.1 | 0.12 | 611 |
| 2008 | 130.4 | 0.10 | 489 | 3.4 | 0.76 | 9 | 0. | 1 | 0.54 | 70 | 10.0 | 0.30 | 100 | 144.0 | 0.09 | 668 |
| 2009 | 243.3 | 0.14 | 398 | 6.3 | 0.82 | 29 | 0. | 5 | 0.53 | 52 | 24.3 | 0.20 | 73 | 274.3 | 0.13 | 552 |
| 2010 | 120.7 | 0.12 | 396 | 31.0 | 0.86 | 40 | 0. | 2 | 0.27 | 441 | 0.4 | 0.90 | 55 | 152.2 | 0.20 | 932 |
| 2011 | 92.6 | 0.07 | 506 | 6.2 | 0.70 | 31 | 0. | 0 | 0.23 | 375 | 3.0 | 0.37 | 91 | 102.0 | 0.08 | 1003 |
| 2012 | 114.1 | 0.08 | 376 | 4.7 | 0.31 | 17 | 0. | 0 | 0.33 | 281 | 4.4 | 0.31 | 182 | 123.2 | 0.08 | 856 |
| 2013 | 50.3 | 0.09 | 312 | 3.4 | 0.35 | 51 | 0. | 0 | 0.36 | 235 | 10.7 | 0.26 | 174 | 64.4 | 0.09 | 772 |
| 2014 | 43.5 | 0.09 | 311 | 4.2 | 0.50 | 39 | 0. | 0 | 0.37 | 366 | 5.0 | 0.42 | 92 | 52.7 | 0.09 | 808 |
| 2015 | 29.3 | 0.13 | 250 | 0.2 | 0.66 | 47 | 0. | 1 | 0.44 | 266 | 12.1 | 0.25 | 99 | 41.7 | 0.11 | 662 |
| 2016 | 23.2 | 0.14 | 157 | 2.0 | 0.90 | 32 | 0. | | 0.13 | 79 | 13.3 | 0.49 | 88 | 38.6 | 0.19 | 356 |
| 2017 | 18.8 | 0.13 | 163 | 0.3 | 0.79 | 65 | 0. | | 0.82 | 126 | 3.6 | 0.50 | 140 | 22.9 | 0.13 | 494 |
| 2018 | 9.0 | 0.19 | 101 | 7.7 | 0.46 | 63 | 0. | 0 | 0.92 | 54 | 21.5 | 0.24 | 222 | 38.3 | 0.17 | 440 |

Table 6. Total catch (US and CA commercial landings (metric tons, live weight) and US discards) of American plaice from the Gulf of Maine, Georges Bank, Southern New England, and the Mid-Atlantic (NAFO Div. 5Y, 5Z and 6).

| Year | | Gulf of N | laine | | | George | es Bank | | Southern Ne | w England | Mid-Atla | ntic | Gr | and Total | ı |
|------|----------|-----------|--------|-------|----------|----------|-------------|-------|-------------|-----------|----------|-------|------------|-----------|-------|
| | Landings | Discards | CA Lnd | Catch | Landings | Discards | CA Landings | Catch | Landings | Catch | Landings | Catch | Landings [| Discards | Catch |
| 1960 | 621 | | 1.0 | 621 | 689 | | 0 | 689 | - | 0 | 0.0 | 0 | 1311 | 0 | 1311 |
| 1961 | 692 | | 0.0 | 692 | 830 | | 0 | 830 | - | 0 | 0.0 | 0 | 1522 | 0 | 1522 |
| 1962 | 694 | | 0.0 | 694 | 1277 | | 44 | 1277 | - | 0 | 0.0 | 0 | 2015 | 0 | 2015 |
| 1963 | 693 | | 0.0 | 693 | 1640 | | 127 | 1640 | - | 0 | 0.0 | 0 | 2460 | 0 | 2460 |
| 1964 | 811 | | 0.0 | 811 | 2988 | | 177 | 2988 | - | 0 | 0.0 | 0 | 3976 | 0 | 3976 |
| 1965 | 967 | | 0.0 | 967 | 2668 | | 180 | 2668 | - | 0 | 0.0 | 0 | 3815 | 0 | 3815 |
| 1966 | 957 | | 2.0 | 957 | 2910 | | 242 | 2910 | - | 0 | 0.0 | 0 | 4111 | 0 | 4111 |
| 1967 | 1072 | | 6.0 | 1072 | 3397 | | 203 | 3397 | - | 0 | 4 | 4 | 4682 | 0 | 4682 |
| 1968 | 909 | | 5.0 | 909 | 2066 | | 173 | 2066 | 782 | 782 | 20 | 20 | 3955 | 0 | 3955 |
| 1969 | 1066 | | 7.0 | 1066 | 1889 | | 71 | 1889 | 854 | 854 | 130 | 130 | 4017 | 0 | 4017 |
| 1970 | 895 | | 0.0 | 895 | 3280 | | 92 | 3280 | 146 | 146 | 8 | 8 | 4421 | 0 | 4421 |
| 1971 | 653 | | 5.0 | 653 | 2073 | | 38 | 2073 | 329 | 329 | 8 | 8 | 3106 | 0 | 3106 |
| 1972 | 569 | | 0.0 | 569 | 1602 | | 22 | 1602 | 74 | 74 | 0 | 0 | 2267 | 0 | 2267 |
| 1973 | 687 | | 0.0 | 687 | 1237 | | 38 | 1237 | 163 | 163 | 0 | 0 | 2125 | 0 | 2125 |
| 1974 | 947 | | 2.0 | 947 | 1084 | | 27 | 1084 | 96 | 96 | 0 | 0 | 2156 | 0 | 2156 |
| 1975 | 1507 | | 0.0 | 1507 | 1086 | | 25 | 1086 | 3 | 3 | 0 | 0 | 2621 | 0 | 2621 |
| 1976 | 2550 | | 0.0 | 2550 | 975 | | 24 | 975 | 10 | 10 | 1 | 1 | 3560 | 0 | 3560 |
| 1977 | 5647 | | 0.0 | 5647 | 1493 | | 35 | 1493 | 84 | 84 | 7 | 7 | 7266 | 0 | 7266 |
| 1978 | 7317 | | 30.0 | 7317 | 2270 | | 77 | 2270 | 15 | 15 | 8 | 8 | 9717 | 0 | 9717 |
| 1979 | 8835 | | 0.0 | 8835 | 2501 | | 23 | 2501 | 20 | 20 | 4 | 4 | 11383 | 0 | 11383 |
| 1980 | 11139 | 845 | 0.0 | 11984 | 2447 | | 43 | 2447 | 10 | 10 | 1 | 1 | 13640 | 845 | 14485 |
| 1981 | 10328 | 288 | 1.0 | 10616 | 2499 | | 15 | 2499 | 28 | 28 | 46 | 46 | 12917 | 288 | 13205 |
| 1982 | 11147 | 414 | 0.0 | 11561 | 3963 | | 27 | 3963 | 37 | 37 | 9 | 9 | 15183 | 414 | 15597 |
| 1983 | 9149 | 534 | 7.0 | 9683 | 3985 | | 30 | 3985 | 40 | 40 | 4 | 4 | 13215 | 534 | 13749 |
| 1984 | 6835 | 619 | 2.0 | 7454 | 3283 | | 6 | 3283 | 17 | 17 | 7 | 7 | 10150 | 619 | 10769 |
| 1985 | 4767 | 236 | 1.0 | 5003 | 2289 | | 40 | 2289 | 12 | 12 | 2 | 2 | 7111 | 236 | 7347 |
| 1986 | 3319 | 290 | 0.0 | 3609 | 1180 | | 34 | 1180 | 4 | 4 | 3 | 3 | 4540 | 290 | 4830 |
| 1987 | 2766 | 463 | 0.0 | 3229 | 1080 | | 48 | 1080 | 2 | 2 | 1 | 1 | 3897 | 463 | 4360 |
| 1988 | 2271 | 349 | 0.0 | 2620 | 1205 | | 108 | 1205 | 13 | 13 | 1 | 1 | 3598 | 349 | 3947 |
| 1989 | 1646 | 1070 | 0.0 | 2716 | 771 | 134 | 68 | 905 | 1 | 1 | 3 | 3 | 2489 | 1204 | 3693 |
| 1990 | 1802 | 1557 | 0.0 | 3359 | 691 | 87 | 52 | 778 | 2 | 2 | 2 | 2 | 2549 | 1644 | 4193 |
| 1991 | 2936 | 1631 | 0.0 | 4567 | 1336 | 231 | 26 | 1567 | 15 | 15 | 0 | 0 | 4313 | 1863 | 6176 |
| 1992 | 4564 | 747 | 0.0 | 5311 | 1841 | 65 | 3 | 1906 | 10 | 10 | 4 | 4 | 6422 | 812 | 7234 |
| 1993 | 3866 | 399 | 0.0 | 4265 | 1839 | 231 | 0 | 2070 | 11 | 11 | 4 | 4 | 5720 | 629 | 6349 |
| 1994 | 3553 | 631 | 0.0 | 4183 | 1418 | 50 | 30 | 1468 | 29 | 29 | 8 | 8 | 5037 | 681 | 5718 |
| 1995 | 3132 | 682 | 0.0 | 3814 | 1445 | 384 | 2 | 1829 | 34 | 34 | 8 | 8 | 4621 | 1066 | 5687 |
| 1996 | 3018 | 466 | 0.0 | 3484 | 1312 | 150 | 2 | 1462 | 31 | 31 | 4 | 4 | 4367 | 616 | 4983 |
| 1997 | 2306 | 602 | 0.0 | 2909 | 1611 | 279 | 65 | 1891 | 37 | 37 | 1 | 1 | 4020 | 881 | 4902 |
| 1998 | 2290 | 534 | 0.0 | 2824 | 1337 | 130 | 20 | 1467 | 20 | 20 | 4 | 4 | 3671 | 664 | 4335 |
| 1999 | 1631 | 615 | 0.0 | 2246 | 1572 | 132 | 123 | 1705 | 23 | 23 | 5 | 5 | 3354 | 747 | 4101 |
| | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | |

Table 6 continued. Total catch (US and CA commercial landings (metric tons, live weight) and US discards) of American plaice from the Gulf of Maine, Georges Bank, Southern New England, and the Mid-Atlantic (NAFO Div. 5Y, 5Z and 6).

| | | Gulf of N | /laine | | | Georg | es Bank | | Southern Nev | v England | Mid-Atlaı | ntic | Gra | and Total | |
|------|----------|-----------|--------|-------|----------|----------|-------------|-------|--------------|-----------|-----------|-------|------------|-----------|-------|
| Year | Landings | Discards | CA Lnd | Catch | Landings | Discards | CA Landings | Catch | Landings | Catch | Landings | Catch | Landings D | Discards | Catch |
| 2000 | 2594 | 122 | 0.0 | 2715 | 1715 | 237 | 143 | 1951 | 22 | 22 | 9 | 9 | 4482 | 358 | 4841 |
| 2001 | 2736 | 271 | 0.4 | 3007 | 1668 | 236 | 50 | 1905 | 44 | 44 | 2 | 2 | 4501 | 507 | 5008 |
| 2002 | 2006 | 192 | 0.5 | 2198 | 1472 | 105 | 99 | 1578 | 15 | 15 | 5 | 5 | 3597 | 297 | 3895 |
| 2003 | 1520 | 216 | 0.1 | 1736 | 934 | 104 | 60 | 1038 | 29 | 29 | 3 | 3 | 2547 | 320 | 2867 |
| 2004 | 1046 | 268 | 0.1 | 1314 | 636 | 86 | 3 | 722 | 28 | 28 | 4 | 4 | 1716 | 354 | 2070 |
| 2005 | 753 | 213 | 0.3 | 965 | 574 | 75 | 5 | 649 | 13 | 13 | 2 | 2 | 1348 | 288 | 1636 |
| 2006 | 583 | 142 | 0.0 | 725 | 504 | 143 | 11 | 648 | 17 | 17 | 1 | 1 | 1116 | 286 | 1402 |
| 2007 | 601 | 82 | 0.1 | 684 | 377 | 164 | 2 | 541 | 6 | 6 | 6 | 6 | 992 | 246 | 1238 |
| 2008 | 703 | 113 | 0.2 | 816 | 388 | 144 | 0 | 532 | 4 | 4 | 5 | 5 | 1101 | 257 | 1357 |
| 2009 | 866 | 115 | 0.0 | 980 | 501 | 274 | 0 | 776 | 6 | 6 | 7 | 7 | 1381 | 389 | 1770 |
| 2010 | 902 | 239 | 0.1 | 1140 | 492 | 152 | 0 | 644 | 8 | 8 | 2 | 2 | 1405 | 391 | 1796 |
| 2011 | 771 | 96 | 0.0 | 867 | 595 | 102 | 1 | 697 | 2 | 2 | 1 | 1 | 1370 | 198 | 1569 |
| 2012 | 763 | 161 | 0.1 | 923 | 699 | 123 | 0 | 822 | 1 | 1 | 0 | 0 | 1463 | 284 | 1747 |
| 2013 | 764 | 88 | 0.0 | 852 | 528 | 64 | 0 | 592 | 2 | 2 | 4 | 4 | 1297 | 152 | 1449 |
| 2014 | 763 | 0 | 0.1 | 763 | 699 | 53 | 0_ | 751 | 2 | 2 | 0 | 0 | 1464 | 53 | 1517 |
| 2015 | 828 | 43 | 0.0 | 871 | 400 | 42 | 0 | 442 | 2 | 2 | 0 | 0 | 1230 | 85 | 1315 |
| 2016 | 718 | 60 | 0.0 | 778 | 287 | 39 | 0_ | 326 | 3 | 3 | 0 | 0 | 1008 | 99 | 1107 |
| 2017 | 871 | 71 | 0.0 | 942 | 259 | 23 | 0 _ | 282 | 1 | 1 | 3 | 3 | 1134 | 94 | 1228 |
| 2018 | 911 | 70 | 0.0 | 981 | 171 | 38 | 0 | 209 | 0 | 0 | 4 | 4 | 1086 | 109 | 1195 |

Table 7a. Commercial landings (thousands of fish; metric tons), mean weight (kg), and mean length (cm), at age, of American plaice from the Gulf of Maine and Georges Bank stock (NAFO Division 5Y and 5Z).

| | | | | | | Age | | | | | | | | | | | | | Age | | | | | | |
|------|----|-----|------|--------------|-----------|--------|-----------|--------|------|-----|------|-------|------|---|----|-----|-----------|-----------|---------------|--------|--------|------|------|------|-------|
| Year | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11+ | Total | Year | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11+ | Tota |
| | | | | <u>Landi</u> | ings in N | umbers | (000's) a | at Age | | | | | | | | | <u>La</u> | ndings ir | <u>Weight</u> | (Tons) | at Age | | | | |
| 1980 | 0 | 0 | 22 | 770 | 3129 | 3903 | 3629 | 1185 | 1139 | 850 | 1380 | 16007 | 1980 | 0 | 0 | 6 | 271 | 1387 | 2562 | 3008 | 1232 | 1347 | 1168 | 2616 | 13597 |
| 1981 | 0 | 587 | 1332 | 4332 | 5101 | 3619 | 2381 | 1574 | 645 | 440 | 621 | 20632 | 1981 | 0 | 78 | 276 | 1485 | 2318 | 2832 | 2122 | 1545 | 729 | 552 | 963 | 1290 |
| 1982 | 0 | 113 | 2134 | 3495 | 4296 | 3482 | 3293 | 2038 | 1256 | 737 | 718 | 21563 | 1982 | 0 | 23 | 620 | 1166 | 1845 | 2007 | 3164 | 2320 | 1502 | 1144 | 1364 | 15156 |
| 1983 | 0 | 1 | 437 | 3732 | 4267 | 3807 | 2251 | 1270 | 697 | 449 | 911 | 17822 | 1983 | 0 | 0 | 149 | 1718 | 2482 | 2594 | 1863 | 1325 | 867 | 650 | 1530 | 13178 |
| 1984 | 0 | 3 | 253 | 1298 | 4819 | 2865 | 1913 | 577 | 274 | 307 | 769 | 13078 | 1984 | 0 | 1 | 84 | 549 | 2913 | 1957 | 1713 | 688 | 310 | 421 | 1506 | 10142 |
| 1985 | 0 | 0 | 60 | 786 | 2066 | 2787 | 2213 | 1081 | 438 | 267 | 182 | 9881 | 1985 | 0 | 0 | 13 | 212 | 747 | 1516 | 1884 | 1263 | 603 | 445 | 387 | 7070 |
| 1986 | 0 | 1 | 198 | 1082 | 1502 | 1462 | 1307 | 631 | 255 | 105 | 100 | 6644 | 1986 | 0 | 0 | 53 | 349 | 616 | 864 | 1101 | 741 | 380 | 183 | 219 | 4506 |
| 1987 | 0 | 15 | 343 | 486 | 1703 | 1271 | 891 | 541 | 187 | 62 | 60 | 5557 | 1987 | 0 | 3 | 97 | 187 | 809 | 797 | 797 | 636 | 278 | 107 | 137 | 3849 |
| 1988 | 0 | 1 | 446 | 1148 | 1456 | 1427 | 543 | 270 | 177 | 88 | 55 | 5612 | 1988 | 0 | 0 | 126 | 413 | 689 | 922 | 484 | 333 | 247 | 151 | 124 | 3490 |
| 1989 | 0 | 0 | 76 | 451 | 686 | 504 | 749 | 469 | 193 | 103 | 116 | 3346 | 1989 | 0 | 0 | 26 | 177 | 335 | 295 | 553 | 403 | 257 | 150 | 224 | 242 |
| 1990 | 0 | 0 | 202 | 846 | 1049 | 500 | 290 | 349 | 193 | 96 | 161 | 3687 | 1990 | 0 | 0 | 78 | 355 | 548 | 330 | 240 | 338 | 210 | 125 | 273 | 2497 |
| 1991 | 0 | 0 | 23 | 1862 | 2835 | 1112 | 321 | 165 | 202 | 98 | 105 | 6723 | 1991 | 0 | 0 | 8 | 844 | 1541 | 795 | 309 | 192 | 258 | 150 | 190 | 4287 |
| 1992 | 0 | 0 | 46 | 739 | 4872 | 2563 | 813 | 191 | 131 | 118 | 93 | 9566 | 1992 | 0 | 0 | 22 | 314 | 2624 | 1896 | 774 | 237 | 173 | 193 | 188 | 6419 |
| 1993 | 0 | 0 | 123 | 1029 | 2037 | 2452 | 1382 | 265 | 287 | 151 | 125 | 7851 | 1993 | 0 | 0 | 51 | 463 | 1055 | 1591 | 1306 | 327 | 400 | 238 | 289 | 5720 |
| 1994 | 0 | 23 | 196 | 898 | 1869 | 1264 | 1157 | 598 | 235 | 150 | 291 | 6680 | 1994 | 0 | 3 | 47 | 384 | 991 | 793 | 921 | 647 | 303 | 213 | 705 | 5007 |
| 1995 | 0 | 0 | 141 | 713 | 2862 | 1734 | 642 | 579 | 210 | 53 | 50 | 6983 | 1995 | 0 | 0 | 50 | 299 | 1472 | 1134 | 527 | 648 | 281 | 111 | 96 | 4619 |
| 1996 | 0 | 100 | 174 | 2496 | 2378 | 1401 | 529 | 240 | 124 | 35 | 64 | 7540 | 1996 | 0 | 17 | 59 | 1009 | 1226 | 911 | 487 | 288 | 171 | 55 | 142 | 4365 |
| 1997 | 0 | 0 | 2 | 1260 | 2584 | 1540 | 613 | 182 | 85 | 66 | 116 | 6449 | 1997 | 0 | 0 | 0 | 535 | 1230 | 980 | 504 | 205 | 114 | 104 | 282 | 3955 |
| 1998 | 0 | 0 | 6 | 174 | 1497 | 1893 | 999 | 318 | 60 | 57 | 155 | 5158 | 1998 | 0 | 0 | 2 | 69 | 654 | 1099 | 825 | 328 | 80 | 83 | 510 | 3651 |
| 1999 | 0 | 0 | 2 | 224 | 988 | 1668 | 1160 | 443 | 148 | 42 | 79 | 4753 | 1999 | 0 | 0 | 0 | 98 | 484 | 989 | 873 | 410 | 164 | 61 | 151 | 3231 |
| 2000 | 0 | 0 | 113 | 417 | 1432 | 2120 | 1715 | 566 | 138 | 70 | 20 | 6591 | 2000 | 0 | 0 | 46 | 173 | 703 | 1236 | 1323 | 571 | 151 | 99 | 37 | 4339 |
| 2001 | 0 | 0 | 0 | 394 | 1912 | 2003 | 1523 | 899 | 289 | 57 | 46 | 7123 | 2001 | 0 | 0 | 0 | 174 | 878 | 1088 | 1084 | 760 | 306 | 82 | 78 | 4451 |
| 2002 | 0 | 0 | 3 | 330 | 1079 | 1674 | 1162 | 504 | 275 | 158 | 177 | 5362 | 2002 | 0 | 0 | 1 | 134 | 498 | 876 | 790 | 454 | 293 | 197 | 255 | 3498 |
| 2003 | 0 | 0 | 0 | 127 | 767 | 1076 | 700 | 513 | 262 | 150 | 106 | 3701 | 2003 | 0 | 0 | 0 | 51 | 341 | 606 | 488 | 439 | 255 | 166 | 141 | 2487 |
| 2004 | 0 | 0 | 7 | 126 | 468 | 857 | 448 | 358 | 195 | 78 | 74 | 2610 | 2004 | 0 | 0 | 2 | 56 | 222 | 479 | 310 | 284 | 191 | 79 | 90 | 1713 |
| 2005 | 0 | 0 | 3 | 195 | 604 | 595 | 400 | 173 | 100 | 44 | 50 | 2163 | 2005 | 0 | 0 | 1 | 81 | 292 | 337 | 275 | 152 | 95 | 47 | 64 | 1343 |
| 2006 | 0 | 0 | 2 | 170 | 496 | 405 | 296 | 178 | 98 | 56 | 43 | 1744 | 2006 | 0 | 0 | 1 | 73 | 239 | 237 | 200 | 152 | 90 | 57 | 56 | 1105 |
| 2007 | 0 | 0 | 24 | 309 | 594 | 411 | 210 | 96 | 58 | 23 | 24 | 1749 | 2007 | 0 | 0 | 9 | 125 | 280 | 233 | 141 | 80 | 58 | 28 | 34 | 990 |
| 2008 | 0 | 0 | 36 | 191 | 549 | 474 | 306 | 153 | 91 | 87 | 60 | 1946 | 2008 | 0 | 0 | 14 | 83 | 268 | 250 | 189 | 101 | 70 | 63 | 62 | 1100 |
| 2009 | 0 | 0 | 0 | 136 | 604 | 637 | 433 | 362 | 126 | 45 | 89 | 2433 | 2009 | 0 | 0 | 0 | 60 | 284 | 346 | 251 | 216 | 92 | 39 | 94 | 1380 |
| 2010 | 0 | 0 | 44 | 280 | 319 | 773 | 535 | 214 | 106 | 104 | 78 | 2451 | 2010 | 0 | 0 | 15 | 130 | 158 | 410 | 328 | 148 | 78 | 63 | 75 | 1404 |
| 2011 | 0 | 0 | 0 | 90 | 259 | 707 | 701 | 374 | 90 | 54 | 47 | 2323 | 2011 | 0 | 0 | 0 | 42 | 138 | 395 | 409 | 238 | 65 | 39 | 42 | 1369 |
| 2012 | 0 | 0 | 31 | 68 | 300 | 382 | 601 | 627 | 262 | 84 | 92 | 2446 | 2012 | 0 | 0 | 15 | 30 | 145 | 216 | 359 | 379 | 180 | 61 | 77 | 1463 |
| 2013 | 0 | 0 | 21 | 135 | 306 | 459 | 332 | 401 | 327 | 166 | 77 | 2224 | 2013 | 0 | 0 | 8 | 60 | 150 | 247 | 199 | 243 | 208 | 104 | 78 | 1297 |
| 2014 | 0 | 0 | 27 | 245 | 341 | 232 | 589 | 184 | 181 | 139 | 138 | 2075 | 2014 | 0 | 0 | 10 | 106 | 166 | 133 | 342 | 123 | 127 | 113 | 118 | 1239 |
| 2015 | 0 | 0 | 59 | 281 | 390 | 309 | 249 | 334 | 109 | 142 | 137 | 2010 | 2015 | 0 | 0 | 24 | 135 | 208 | 181 | 158 | 221 | 87 | 103 | 114 | 1231 |
| 2016 | 0 | 0 | 32 | 183 | 293 | 267 | 177 | 112 | 197 | 66 | 188 | | 2016 | 0 | 0 | 14 | 89 | 161 | 167 | 123 | 82 | 149 | 58 | 165 | |
| 2017 | 0 | 0 | 5 | 329 | 356 | 303 | 219 | 100 | 108 | 132 | 149 | | 2017 | 0 | 0 | 2 | 151 | 199 | 193 | 151 | 81 | 93 | 112 | 153 | _ |
| 2018 | 26 | 88 | 169 | 179 | 465 | 350 | 281 | 173 | 125 | 79 | 189 | 2124 | 2018 | 1 | 10 | 29 | 49 | 208 | 183 | 170 | 114 | 93 | 65 | 165 | 1086 |

Table 7a continued. Commercial landings, (thousands of fish; metric tons), mean weight (kg), and mean length (cm), at age, of American plaice from the Gulf of Maine and Georges Bank stock (NAFO Division 5Y and 5Z).

Age

Age

| ATTICL | ream p | raice . | iioiii (| ine Ot | iII ()I . | Age | ana | GCOIE | cs Da | iik sto | CK (IV | 1711 0 | DIVISIOII | JIa | iiu JZ | <i></i> | | | Age | | | | | | |
|--------------|--------|---------|----------------|----------------|----------------|----------------|-------------------|----------------|----------------|----------------|----------------|----------------|--------------|------|-------------|--------------|--------------|----------------|-----------------|--------------|--------------|--------------|--------------|--------------|--------------|
| Year | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11+ | Mean | Year | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11+ | Mean |
| | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | <u>Landi</u> | ngs Mea | n Weigh | <u>nt (kg) at</u> | <u>Age</u> | | | | | | | | <u>La</u> | andings I | <u>Mean Le</u> | <u>ngth (cn</u> | n) at Age | 2 | | | | |
| 1980 | 0.000 | 0.000 | 0.285 | 0.352 | 0.443 | 0.656 | 0.829 | 1.039 | 1.183 | 1.374 | 1.895 | 0.849 | 1980 | 0.0 | 0.0 | 32.6 | 34.7 | 37.1 | 41.7 | 44.8 | 47.9 | 49.9 | 52.2 | 57.3 | 44.1 |
| 1981 | 0.000 | 0.133 | 0.207 | 0.343 | 0.454 | 0.783 | 0.891 | 0.982 | 1.130 | 1.254 | 1.551 | 0.625 | 1981 | 0.0 | 25.8 | 28.8 | 34.0 | 36.9 | 43.3 | 45.2 | 46.7 | 48.8 | 50.3 | 53.8 | 39.4 |
| 1982 | 0.000 | 0.200 | 0.291 | 0.334 | 0.429 | 0.577 | 0.961 | 1.138 | 1.196 | 1.552 | 1.901 | 0.703 | 1982 | 0.0 | 29.0 | 32.4 | 33.7 | 36.4 | 39.5 | 46.3 | 48.8 | 49.9 | 53.9 | 57.3 | 40.8 |
| 1983 | 0.000 | 0.184 | 0.341 | 0.460 | 0.582 | 0.682 | 0.828 | 1.043 | 1.244 | 1.446 | 1.680 | 0.740 | 1983 | 0.0 | 28.7 | 34.2 | 37.2 | 39.8 | 41.9 | 44.2 | 47.5 | 50.2 | 52.9 | 54.9 | 42.2 |
| 1984 | 0.000 | 0.180 | 0.331 | 0.423 | 0.605 | 0.683 | 0.895 | 1.192 | 1.133 | 1.369 | 1.958 | 0.775 | 1984 | 0.0 | 28.5 | 33.9 | 36.3 | 40.3 | 41.8 | 45.3 | 49.9 | 49.3 | 52.2 | 59.0 | 42.8 |
| 1985 | 0.000 | 0.000 | 0.221 | 0.270 | 0.362 | 0.544 | 0.852 | 1.167 | 1.377 | 1.665 | 2.128 | 0.716 | 1985 | 0.0 | 0.0 | 30.0 | 31.9 | 34.6 | 39.1 | 45.0 | 49.6 | 52.0 | 55.2 | 59.3 | 41.4 |
| 1986 | 0.000 | 0.191 | 0.267 | 0.322 | 0.410 | 0.591 | 0.842 | 1.174 | 1.491 | 1.747 | 2.194 | 0.678 | 1986 | 0.0 | 29.0 | 31.9 | 33.6 | 36.0 | 40.1 | 44.6 | 49.5 | 53.3 | 56.0 | 59.9 | 40.7 |
| 1987 | 0.000 | 0.201 | 0.284 | 0.386 | 0.475 | 0.627 | 0.895 | 1.177 | 1.483 | 1.732 | 2.284 | 0.693 | 1987 | 0.0 | 29.4 | 32.5 | 35.5 | 37.8 | 41.0 | 45.6 | 49.5 | 53.3 | 55.8 | 60.7 | 41.3 |
| 1988 | 0.000 | 0.151 | 0.282 | 0.360 | 0.473 | 0.646 | 0.893 | 1.231 | 1.396 | 1.717 | 2.238 | 0.622 | 1988 | 0.0 | 27.0 | 32.4 | 34.8 | 37.6 | 41.4 | 45.6 | 50.4 | 52.3 | 55.7 | 60.2 | 39.9 |
| 1989 | 0.000 | 0.000 | 0.339 | 0.393 | 0.489 | 0.586 | 0.739 | 0.858 | 1.334 | 1.463 | 1.940 | 0.724 | 1989 | 0.0 | 0.0 | 34.3 | 35.8 | 38.2 | 40.2 | 43.0 | 44.6 | 51.5 | 52.9 | 57.6 | 41.9 |
| 1990 | 0.000 | 0.000 | 0.384 | 0.420 | 0.522 | 0.660 | 0.826 | 0.968 | 1.089 | 1.305 | 1.696 | 0.677 | 1990 | 0.0 | 0.0 | 35.6 | 36.5 | 38.9 | 41.6 | 44.5 | 46.7 | 48.3 | 51.1 | 55.3 | 41.3 |
| 1991 | 0.000 | 0.000 | 0.333 | 0.453 | 0.543 | 0.715 | 0.963 | 1.161 | 1.276 | 1.541 | 1.813 | 0.638 | 1991 | 0.0 | 0.0 | 34.2 | 37.4 | 39.4 | 42.6 | 46.6 | 49.3 | 50.6 | 53.9 | 56.3 | 40.8 |
| 1992 | 0.000 | 0.000 | 0.473 | 0.424 | 0.538 | 0.739 | 0.953 | 1.240 | 1.319 | 1.640 | 2.007 | 0.671 | 1992 | 0.0 | 0.0 | 38.0 | 36.7 | 39.2 | 43.1 | 46.4 | 50.5 | 51.4 | 54.9 | 58.3 | 41.5 |
| 1993 | 0.000 | 0.000 | 0.416 | 0.451 | 0.518 | 0.649 | 0.945 | 1.234 | 1.394 | 1.577 | 2.313 | 0.729 | 1993 | 0.0 | 0.0 | 36.5 | 37.3 | 38.8 | 41.4 | 46.6 | 50.5 | 52.4 | 54.4 | 60.4 | 42.3 |
| 1994 1995 | 0.000 | 0.138 | 0.239 0.359 | 0.427 0.420 | 0.530 0.517 | 0.627 0.685 | 0.796 0.914 | 1.083 1.168 | 1.289 1.099 | 1.424 2.105 | 2.424 1.921 | 0.749 0.676 | 1994 1995 | 0.0 | 26.2 0.0 | 30.4 35.0 | 36.7 36.6 | 39.2 38.8 | 41.2 41.6 | 44.2 | 48.6 | 51.2 51.7 | 52.6 59.4 | 61.4 57.7 | 42.3 41.3 |
| 1995 | 0.000 | 0.000 | 0.339 | 0.420 | 0.517 | 0.650 | 0.914 | 1.202 | 1.383 | 1.565 | 2.242 | 0.676 | 1995 | 0.0 | 27.7 | 34.1 | 36.2 | 38.8 | 41.6 | 44.6 46.1 | 49.0 50.0 | 52.1 | 54.3 | 60.3 | 39.5 |
| 1997 | 0.000 | 0.000 | 0.339 | 0.404 | 0.316 | 0.636 | 0.819 | 1.127 | 1.336 | 1.570 | 2.425 | 0.613 | 1990 | 0.0 | 0.0 | 30.0 | 36.7 | 37.9 | 41.3 | 46.1 44.5 | 49.0 | 51.7 | 54.2 | 61.1 | 40.2 |
| 1998 | 0.000 | 0.000 | 0.343 | 0.395 | 0.470 | 0.581 | 0.826 | 1.031 | 1.350 | 1.463 | 3.293 | 0.708 | 1998 | 0.0 | 0.0 | 34.5 | 35.9 | 37.0 | 40.1 | 44.7 | 47.8 | 51.8 | 53.0 | 67.1 | 41.5 |
| 1999 | 0.000 | 0.000 | 0.255 | 0.437 | 0.490 | 0.593 | 0.753 | 0.925 | 1.113 | 1.462 | 1.908 | 0.680 | 1999 | 0.0 | 0.0 | 31.6 | 36.9 | 38.2 | 40.4 | 43.4 | 46.2 | 48.9 | 52.9 | 57.3 | 41.7 |
| 2000 | 0.000 | 0.000 | 0.409 | 0.416 | 0.491 | 0.583 | 0.772 | 1.008 | 1.094 | 1.411 | 1.864 | 0.658 | 2000 | 0.0 | 0.0 | 36.4 | 36.4 | 38.2 | 40.1 | 43.5 | 47.2 | 48.6 | 52.5 | 57.1 | 41.3 |
| 2001 | 0.000 | 0.000 | 0.000 | 0.443 | 0.459 | 0.543 | 0.712 | 0.845 | 1.059 | 1.455 | 1.684 | 0.625 | 2001 | 0.0 | 0.0 | 0.0 | 37.1 | 37.5 | 39.3 | 42.6 | 44.7 | 47.8 | 53.1 | 55.3 | 40.6 |
| 2002 | 0.000 | 0.000 | 0.295 | 0.407 | 0.462 | 0.523 | 0.679 | 0.901 | 1.067 | 1.246 | 1.443 | 0.652 | 2002 | 0.0 | 0.0 | 33.0 | 36.3 | 37.6 | 39.0 | 42.1 | 45.9 | 48.3 | 50.6 | 52.8 | 41.1 |
| 2003 | 0.000 | 0.000 | 0.000 | 0.402 | 0.445 | 0.563 | 0.697 | 0.855 | 0.976 | 1.105 | 1.322 | 0.672 | 2003 | 0.0 | 0.0 | | 36.1 | 37.2 | 39.8 | 42.4 | 45.1 | 46.7 | 48.4 | 51.1 | 41.5 |
| 2004 | 0.000 | 0.000 | 0.339 | 0.447 | 0.474 | 0.559 | 0.692 | 0.793 | 0.980 | 1.015 | 1.211 | 0.656 | 2004 | 0.0 | 0.0 | 34.4 | 37.3 | 37.9 | 39.7 | 42.2 | 43.8 | 46.7 | 47.3 | 49.7 | 41.3 |
| 2005 | 0.000 | 0.000 | 0.432 | 0.414 | 0.483 | 0.566 | 0.688 | 0.876 | 0.947 | 1.074 | 1.277 | 0.621 | 2005 | 0.0 | 0.0 | 37.0 | 36.4 | 38.1 | 39.8 | 42.1 | 45.4 | 46.3 | 48.0 | 50.8 | 40.6 |
| 2006 | 0.000 | 0.000 | 0.326 | 0.431 | 0.482 | 0.585 | 0.677 | 0.850 | 0.923 | 1.028 | 1.301 | 0.634 | 2006 | 0.0 | 0.0 | 34.0 | 36.9 | 38.1 | 40.2 | 42.0 | 44.9 | 45.9 | 47.5 | 50.9 | 40.9 |
| 2007 | 0.000 | 0.000 | 0.387 | 0.407 | 0.472 | 0.566 | 0.673 | 0.838 | 1.003 | 1.196 | 1.450 | 0.566 | 2007 | 0.0 | 0.0 | 35.8 | 36.2 | 37.9 | 39.8 | 41.8 | 44.7 | 46.9 | 49.9 | 52.8 | 39.5 |
| 2008 | 0.000 | 0.000 | 0.378 | 0.434 | 0.489 | 0.528 | 0.616 | 0.662 | 0.770 | 0.730 | 1.035 | 0.565 | 2008 | 0.0 | 0.0 | 35.5 | 36.9 | 38.2 | 39.1 | 40.9 | 41.6 | 43.5 | 42.6 | 47.6 | 39.7 |
| 2009 | 0.000 | 0.000 | 0.367 | 0.437 | 0.469 | 0.543 | 0.579 | 0.596 | 0.726 | 0.861 | 1.050 | 0.567 | 2009 | 0.0 | 0.0 | | 37.0 | 37.8 | 39.3 | 40.1 | 40.4 | 42.9 | 45.1 | 47.9 | 39.7 |
| 2010 | 0.000 | 0.000 | 0.355 | 0.464 | 0.496 | 0.530 | 0.613 | 0.691 | 0.731 | 0.609 | 0.965 | 0.573 | 2010 | 0.0 | 0.0 | 34.9 | 37.7 | 38.3 | 39.1 | 40.9 | 42.1 | 42.7 | 40.4 | 46.4 | 39.8 |
| 2011 | 0.000 | 0.000 | 0.000 | 0.468 | 0.534 | 0.559 | 0.583 | 0.635 | 0.717 | 0.73 | 0.892 | 0.589 | 2011 | 0.0 | 0.0 | | 37.8 | 39.3 | 39.8 | 40.2 | 41.2 | 42.5 | 42.8 | 45.4 | 40.3 |
| 2012 | 0.000 | 0.000 | 0.492 | 0.441 | 0.483 | 0.566 | 0.598 | 0.604 | 0.689 | 0.729 | 0.841 | 0.598 | 2012 | 0.0 | 0.0 | 38.4 | 37.1 | 38.1 | 39.9 | 40.4 | 40.5 | 42.0 | 42.3 | 44.6 | 40.4 |
| 2013 | 0.000 | 0.000 | 0.399 | 0.442 | 0.492 | 0.537 | 0.597 | 0.606 | 0.637 | 0.63 | 1.008 | 0.583 | 2013 | 0.0 | 0.0 | 35.9 | 37.1 | 38.3 | 39.3 | 40.5 | 40.6 | 41.2 | 40.9 | 45.7 | 40.0 |
| 2014 | 0.000 | 0.000 | 0.379 | 0.432 | 0.487 | 0.574 | 0.58 | 0.671 | 0.704 | 0.813 | 0.858 | 0.597 | 2014 | 0.0 | 0.0 | 35.2 | 36.7 | 38.1 | 40.0 | 40.1 | 41.9 | 42.4 | 44.5 | 44.5 | 40.3 |
| 2015 | 0.000 | 0.000 | 0.406 | 0.481 | 0.533 | 0.583 | 0.636 | 0.662 | 0.795 | 0.727 | 0.833 | 0.612 | 2015 | 0.0 | 0.0 | 36.2 | 38.0 | 39.1 | 40.2 | 41.1 | 41.7 | 44.0 | 42.6 | 44.3 | 40.6 |
| 2016 | 0.000 | 0.000 | 0.426 | 0.489 | 0.549 | 0.623 | 0.697 | 0.738 | 0.758 | 0.881 | 0.877 | 0.666 | 2016 | 0.0 | 0.0 | 36.5 | 38.0 | 39.5 | 40.9 | 42.3 | 42.9 | 43.3 | 45.2 | 44.9 | 41.5 |
| 2017 | 0.000 | 0.000 | 0.419 | 0.458 | 0.559 | 0.635 | 0.690 | 0.811 | 0.858 | 0.852 | 1.022 | 0.667 | 2017 | 0.0 | 0.0 | 36.4 | 37.5 | 39.7 | 41.3 | 42.2 | 44.4 | 45.1 | 44.9 | 47.5 | 41.6 |
| 2018 | 0.021 | 0.113 | 0.168 | 0.277 | 0.447 | 0.525 | 0.603 | 0.657 | 0.742 | 0.821 | 0.875 | 0.511 | 2018 | 14.7 | 24.2 | 27.5 | 31.1 | 36.7 | 38.4 | 40.1 | 41.3 | 42.8 | 44.2 | 45.0 | 37.2 |

Table 7b. Northern shrimp fishery discards, (thousands of fish; metric tons) mean weight (kg), and mean length (cm), at age, of American plaice from the Gulf of Maine and Georges Bank stock (NAFO Division 5Y and 5Z).

| | | | | | Age | ! | | | | | | | | | | | | | Age | | | | | | |
|------|-------|--------|--------|-----------|-----------|----------|------------|-----------|-----|-----|-----|-------|------|-----|------|----------|------------|-----------|----------|----------|-------|-----|-----|-----|-------|
| Year | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11+ | Total | Year | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11+ | Total |
| | | | Shrim | np Discar | ds in Num | bers (00 | 00's) at A | <u>ge</u> | | | | | | | | <u>s</u> | Shrimp Dis | scards in | Weight (| (Tons) a | t Age | | | | |
| 1980 | 0.0 | 0.0 | 114.0 | 115.1 | 28.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 258 | 1980 | 0.0 | 0.0 | 11.9 | 19.6 | 6.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 37.5 |
| 1981 | 0.9 | 147.8 | 364.4 | 287.2 | 79.6 | 0.4 | 0.0 | 2.9 | 0.0 | 0.0 | 0.0 | 883 | 1981 | 0.0 | 5.9 | 31.9 | 43.4 | 15.2 | 0.1 | 0.0 | 0.7 | 0.0 | 0.0 | 0.0 | 97.3 |
| 1982 | 6.9 | 154.7 | 545.6 | 632.7 | 105.9 | 95.7 | 4.2 | 0.0 | 0.0 | 0.0 | 0.0 | 1546 | 1982 | 0.1 | 4.6 | 49.4 | 87.9 | 20.9 | 17.2 | 1.0 | 0.0 | 0.0 | 0.0 | 0.0 | 181.1 |
| 1983 | 14.0 | 614.3 | 641.0 | 760.7 | 319.9 | 51.0 | 5.9 | 0.0 | 0.7 | 0.0 | 0.0 | 2408 | 1983 | 0.2 | 18.0 | 58.3 | 103.4 | 53.4 | 9.8 | 1.1 | 0.0 | 0.2 | 0.0 | 0.0 | 244.3 |
| 1984 | 2.5 | 302.0 | 488.3 | 575.1 | 494.6 | 98.1 | 5.9 | 2.8 | 0.0 | 0.0 | 0.0 | 1969 | 1984 | 0.0 | 9.5 | 35.4 | 73.2 | 73.2 | 17.5 | 1.2 | 0.7 | 0.0 | 0.0 | 0.0 | 210.6 |
| 1985 | 53.9 | 103.2 | 930.9 | 464.9 | 307.8 | 79.0 | 14.8 | 0.0 | 0.0 | 0.0 | 0.0 | 1955 | 1985 | 0.8 | 4.4 | 63.2 | 56.2 | 44.4 | 16.7 | 2.9 | 0.0 | 0.0 | 0.0 | 0.0 | 188.6 |
| 1986 | 53.7 | 552.0 | 399.9 | 933.5 | 131.9 | 9.9 | 0.0 | 0.1 | 0.0 | 0.0 | 0.0 | 2081 | 1986 | 0.7 | 20.5 | 31.2 | 129.5 | 24.1 | 2.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 208.1 |
| 1987 | 31.4 | 439.1 | 1107.6 | 609.5 | 338.4 | 12.8 | 0.7 | 0.0 | 0.0 | 0.0 | 0.0 | 2540 | 1987 | 0.3 | 12.7 | 83.0 | 80.3 | 66.1 | 3.2 | 0.2 | 0.0 | 0.0 | 0.0 | 0.0 | 245.8 |
| 1988 | 283.1 | 587.4 | 786.4 | 408.4 | 90.8 | 11.8 | 10.1 | 0.0 | 0.0 | 0.0 | 0.0 | 2178 | 1988 | 4.4 | 22.4 | 66.6 | 54.6 | 15.9 | 3.0 | 2.1 | 0.0 | 0.0 | 0.0 | 0.0 | 168.9 |
| 1989 | 14.6 | 1575.6 | 1377.4 | 726.6 | 224.5 | 99.2 | 22.3 | 6.6 | 0.0 | 0.0 | 0.0 | 4047 | 1989 | 0.1 | 50.7 | 122.1 | 130.4 | 50.8 | 20.1 | 5.1 | 2.3 | 0.0 | 0.0 | 0.0 | 381.5 |
| 1990 | 0.0 | 898.8 | 2945.8 | 989.3 | 208.1 | 33.1 | 13.4 | 10.7 | 0.1 | 0.0 | 0.0 | 5099 | 1990 | 0.0 | 35.9 | 272.4 | 160.7 | 50.3 | 9.0 | 3.7 | 2.8 | 0.0 | 0.0 | 0.0 | 534.9 |
| 1991 | 0.4 | 209.4 | 566.6 | 623.4 | 133.8 | 6.4 | 0.1 | 0.0 | 0.0 | 0.0 | 0.0 | 1540 | 1991 | 0.0 | 5.5 | 50.9 | 119.3 | 37.9 | 2.5 | 0.1 | 0.0 | 0.0 | 0.0 | 0.0 | 216.1 |
| 1992 | 9.8 | 246.8 | 662.1 | 217.7 | 89.7 | 2.9 | 4.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1233 | 1992 | 0.1 | 8.0 | 53.2 | 39.4 | 23.6 | 1.3 | 1.3 | 0.0 | 0.0 | 0.0 | 0.0 | 126.8 |
| 1993 | 21.5 | 274.7 | 123.4 | 35.6 | 8.6 | 2.5 | 0.1 | 0.0 | 0.0 | 0.0 | 0.0 | 466 | 1993 | 0.1 | 8.4 | 12.4 | 6.7 | 2.2 | 1.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 30.9 |
| 1994 | 58.1 | 858.4 | 98.9 | 22.5 | 6.5 | 2.1 | 1.7 | 0.2 | 0.2 | 0.0 | 0.0 | 1049 | 1994 | 0.3 | 19.3 | 8.2 | 3.4 | 1.3 | 0.3 | 0.2 | 0.2 | 0.3 | 0.0 | 0.0 | 33.7 |
| 1995 | 42.3 | 2081.0 | 571.1 | 49.3 | 13.5 | 3.3 | 0.3 | 0.2 | 0.0 | 0.0 | 0.0 | 2761 | 1995 | 0.3 | 52.6 | 42.1 | 9.3 | 3.8 | 1.2 | 0.1 | 0.1 | 0.0 | 0.0 | 0.0 | 109.4 |
| 1996 | 12.4 | 782.9 | 542.1 | 507.7 | 85.0 | 23.5 | 8.4 | 0.0 | 0.0 | 0.0 | 0.0 | 1962 | 1996 | 0.0 | 17.9 | 30.2 | 62.0 | 20.9 | 7.2 | 2.1 | 0.0 | 0.0 | 0.0 | 0.0 | 140.4 |
| 1997 | 14.7 | 626.6 | 128.0 | 120.4 | 55.2 | 8.5 | 0.3 | 0.0 | 0.0 | 0.0 | 0.0 | 954 | 1997 | 0.1 | 12.3 | 8.4 | 12.9 | 9.3 | 1.6 | 0.1 | 0.0 | 0.0 | 0.0 | 0.0 | 44.8 |
| 1998 | 37.2 | 61.3 | 127.0 | 78.3 | 48.7 | 7.3 | 1.3 | 0.0 | 0.0 | 0.0 | 0.0 | 361 | 1998 | 0.5 | 1.7 | 7.8 | 8.3 | 8.2 | 1.8 | 0.3 | 0.0 | 0.0 | 0.0 | 0.0 | 28.7 |
| 1999 | 4.2 | 200.0 | 73.6 | 79.0 | 41.5 | 26.0 | 6.8 | 0.6 | 0.0 | 0.0 | 0.0 | 432 | 1999 | 0.0 | 3.4 | 3.2 | 7.9 | 5.1 | 4.4 | 1.8 | 0.2 | 0.0 | 0.0 | 0.0 | 26.0 |
| 2000 | 2.7 | 292.0 | 191.9 | 57.6 | 36.6 | 11.3 | 6.4 | 0.2 | 0.0 | 0.0 | 0.0 | 599 | 2000 | 0.0 | 5.2 | 11.4 | 6.5 | 5.6 | 2.5 | 1.5 | 0.1 | 0.0 | 0.0 | 0.0 | 32.9 |
| 2001 | 0.0 | 84.7 | 274.1 | 82.9 | 39.2 | 11.8 | 5.0 | 0.5 | 0.1 | 0.0 | 0.0 | 498 | 2001 | 0.0 | 1.5 | 10.9 | 8.6 | 5.1 | 2.0 | 1.2 | 0.2 | 0.0 | 0.0 | 0.0 | 29.5 |
| 2002 | 0.7 | 3.2 | 16.0 | 16.1 | 3.6 | 0.9 | 0.2 | 0.1 | 0.0 | 0.0 | 0.0 | 41 | 2002 | 0.0 | 0.1 | 0.7 | 1.4 | 0.6 | 0.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 3.0 |
| 2003 | 10.2 | 667.8 | 11.7 | 11.5 | 5.4 | 1.1 | 0.0 | 0.6 | 0.0 | 0.4 | 1.0 | 710 | 2003 | 0.3 | 15.8 | 0.9 | 1.2 | 0.8 | 0.2 | 0.0 | 0.1 | 0.0 | 0.8 | 1.8 | 21.8 |
| 2004 | 4.5 | 110.9 | 36.7 | 6.7 | 1.7 | 1.4 | 0.5 | 0.2 | 0.2 | 0.1 | 0.1 | 163 | 2004 | 0.0 | 2.0 | 1.9 | 0.8 | 0.4 | 0.5 | 0.2 | 0.1 | 0.2 | 0.1 | 0.1 | 6.1 |
| 2005 | 34.0 | 270.9 | 34.1 | 3.6 | 0.9 | 0.1 | 0.3 | 0.0 | 0.0 | 0.0 | 0.5 | 344 | 2005 | 0.3 | 4.6 | 1.7 | 0.4 | 0.1 | 0.0 | 0.1 | 0.0 | 0.0 | 0.0 | 8.0 | 8.0 |
| 2006 | 24.3 | 54.2 | 17.8 | 6.0 | 2.6 | 1.3 | 0.5 | 0.4 | 0.4 | 0.2 | 0.3 | 108 | 2006 | 0.3 | 1.6 | 1.2 | 0.8 | 0.6 | 0.3 | 0.1 | 0.4 | 0.5 | 0.3 | 0.4 | 6.5 |
| 2007 | 160.7 | 212.4 | 35.3 | 9.1 | 3.8 | 0.9 | 0.3 | 0.1 | 0.0 | 0.0 | 0.0 | 423 | 2007 | 1.2 | 6.1 | 2.9 | 1.5 | 0.9 | 0.3 | 0.1 | 0.0 | 0.0 | 0.0 | 0.0 | 12.9 |
| 2008 | 14.2 | 48.5 | 45.0 | 28.7 | 10.1 | 2.6 | 0.9 | 0.1 | 0.0 | 0.0 | 0.0 | 150 | 2008 | 0.0 | 1.4 | 2.7 | 4.1 | 2.0 | 0.6 | 0.2 | 0.0 | 0.0 | 0.0 | 0.0 | 11.1 |
| 2009 | 0.0 | 35.5 | 46.4 | 54.8 | 14.6 | 1.6 | 0.5 | 0.0 | 0.0 | 0.0 | 0.0 | 153 | 2009 | 0.0 | 1.3 | 3.2 | 4.7 | 1.6 | 0.2 | 0.1 | 0.0 | 0.0 | 0.0 | 0.0 | 11.1 |
| 2010 | 0.0 | 483.2 | 309.7 | 31.7 | 37.1 | 16.6 | 1.8 | 0.0 | 0.0 | 0.0 | 0.0 | 880 | 2010 | 0.0 | 14.9 | 15.0 | 3.6 | 4.2 | 2.0 | 0.2 | 0.0 | 0.0 | 0.0 | 0.0 | 39.9 |
| 2011 | 1.9 | 184.5 | 120.6 | 29.2 | 14.0 | 2.9 | 2.2 | 1.2 | 0.5 | 0.2 | 0.2 | 357 | 2011 | 0.0 | 3.7 | 3.9 | 2.2 | 1.4 | 0.7 | 8.0 | 8.0 | 0.3 | 0.0 | 0.2 | 13.8 |
| 2012 | 4.4 | 428.5 | 275.2 | 66.4 | 32.0 | 6.6 | 5.0 | 2.7 | 1.1 | 0.3 | 0.5 | 823 | 2012 | 0.0 | 8.4 | 8.7 | 4.9 | 3.1 | 1.5 | 1.7 | 1.8 | 0.6 | 0.1 | 0.5 | 31.4 |
| 2013 | 0.1 | 9.3 | 14.9 | 2.9 | 1.0 | 1.2 | 0.2 | 0.2 | 0.1 | 0.0 | 0.0 | 30 | 2013 | 0.0 | 0.3 | 0.8 | 0.3 | 0.1 | 0.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.7 |
| 2014 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 2014 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 2015 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 2015 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 2016 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 2016 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 2017 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 2017 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 2018 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 2018 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| | | | | | | | | | | | | | | | | | | | | | | | | | |

Table 7b - continued. Northern shrimp fishery discards, (thousands of fish; metric tons) mean weight (kg), and mean length (cm), at age, of American plaice from the Gulf of Maine and Georges Bank stock (NAFO Division 5Y and 5Z).

| | | | | | | Age | | | | | | | | | | | | | Age | | | | | | |
|--------------|----------------|----------------|----------------|----------------|----------------|----------------|-----------|----------------|-------|-------|-------|----------------|--------------|------|------|--------|--------|---------|--------|---------|------|------|------|------|------|
| Year | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11+ | Mean | Year | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11+ | Mean |
| | | | <u>S</u> h | rimp Dis | cards M | 1ean Wei | ight (kg) | at Age | | | | | | | | Shrimp | Discar | ds Mean | Length | (cm) at | Age | | | | |
| 4000 | 0.000 | 0.000 | 0.404 | 0.470 | 0.040 | 0.250 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.445 | 4000 | | | | | | | | | | | | |
| 1980 1981 | 0.000 0.007 | 0.000 0.040 | 0.104 0.087 | 0.170 0.151 | 0.210 0.192 | 0.359 0.320 | 0.000 | 0.000 0.239 | 0.000 | 0.000 | 0.000 | 0.145 0.110 | 1980 1981 | | | | | | | | | | | | |
| 1982 | 0.007 | 0.040 | 0.007 | 0.131 | 0.192 | 0.320 | 0.000 | 0.239 | 0.000 | 0.000 | 0.000 | | 1982 | | | | | | | | | | | | |
| 1983 | 0.014 | 0.030 | 0.091 | 0.136 | 0.167 | 0.100 | 0.239 | 0.359 | 0.295 | 0.000 | 0.000 | 0.117 | 1983 | | | | | | | | | | | | |
| 1984 | 0.004 | 0.032 | 0.072 | 0.127 | 0.148 | 0.178 | 0.177 | 0.239 | 0.000 | 0.000 | 0.000 | 0.107 | 1984 | | | | | | | | | | | | |
| 1985 | 0.015 | 0.043 | 0.068 | 0.121 | 0.144 | 0.211 | 0.196 | 0.000 | 0.000 | 0.000 | 0.000 | 0.096 | 1985 | | | | | | | | | | | | |
| 1986 | 0.014 | 0.037 | 0.078 | 0.139 | 0.183 | 0.204 | 0.000 | 0.359 | 0.000 | 0.000 | 0.000 | 0.100 | 1986 | | | | | | | | | | | | |
| 1987 | 0.011 | 0.029 | 0.075 | 0.132 | 0.195 | 0.247 | 0.307 | 0.000 | 0.000 | 0.000 | 0.000 | 0.097 | 1987 | | | | | | | | | | | | |
| 1988 | 0.016 | 0.038 | 0.085 | 0.134 | 0.175 | 0.253 | 0.209 | 0.000 | 0.000 | 0.000 | 0.000 | 0.078 | 1988 | | | | | | | | | | | | |
| 1989 | 0.009 | 0.032 | 0.089 | 0.179 | 0.226 | 0.203 | 0.228 | 0.348 | 0.432 | 0.000 | 0.000 | 0.094 | 1989 | 11.5 | 16.5 | 22.7 | 28.2 | 30.4 | 29.2 | 30.2 | 34.6 | 37.0 | 0.0 | 0.0 | 21.9 |
| 1990 | 0.000 | 0.040 | 0.092 | 0.162 | 0.242 | 0.272 | 0.275 | 0.261 | 0.472 | 0.000 | 0.000 | 0.105 | 1990 | 0.0 | 17.9 | 22.9 | 27.1 | 30.9 | 32.1 | 32.2 | 31.7 | 38.0 | 0.0 | 0.0 | 23.3 |
| 1991 | 0.004 | 0.026 | 0.090 | 0.191 | 0.283 | 0.391 | 0.701 | 0.000 | 0.515 | 0.000 | 0.000 | 0.140 | 1991 | 9.0 | 15.7 | 22.9 | 28.7 | 32.4 | 35.8 | 42.8 | 0.0 | 38.9 | 0.0 | 0.0 | 25.1 |
| 1992 | 0.006 | 0.032 | 0.080 | 0.181 | 0.263 | 0.443 | 0.323 | 0.000 | 0.962 | 0.000 | 0.000 | 0.103 | 1992 | 10.0 | 16.8 | 21.9 | 28.1 | 31.7 | 36.7 | 33.5 | 0.0 | 47.0 | 0.0 | 0.0 | 22.7 |
| 1993 | 0.003 | 0.031 | 0.101 | 0.188 | 0.255 | 0.412 | 0.670 | 0.000 | 0.000 | 0.000 | 0.000 | 0.066 | 1993 | 8.3 | 16.3 | 23.7 | 28.6 | 31.0 | 35.7 | 42.1 | 0.0 | 0.0 | 0.0 | 0.0 | 19.2 |
| 1994 | 0.004 | 0.023 | 0.083 | 0.152 | 0.207 | 0.151 | 0.133 | 1.349 | 1.349 | 0.000 | 0.000 | 0.032 | 1994 | 9.1 | 15.0 | 22.1 | 26.8 | 29.3 | 26.7 | 26.0 | 52.0 | 52.0 | 0.0 | 0.0 | 15.7 |
| 995 | 0.006 | 0.025 | 0.074 | 0.188 | 0.280 | 0.356 | 0.396 | 0.327 | 0.000 | 0.000 | 0.000 | 0.039 | 1995 | 10.1 | 15.4 | 21.5 | 28.5 | 32.0 | 34.7 | 35.9 | 33.9 | 0.0 | 0.0 | 0.0 | 16.9 |
| 996 | 0.003 | 0.023 | 0.056 | 0.122 | 0.246 | 0.306 | 0.252 | 0.000 | 0.609 | 0.000 | 0.000 | 0.072 | 1996 | 8.6 | 15.1 | 19.7 | 24.8 | 30.7 | 33.1 | 31.1 | 0.0 | 41.0 | 0.0 | 0.0 | 19.8 |
| 1997 | 0.006 | 0.020 | 0.066 | 0.107 | 0.169 | 0.189 | 0.432 | 0.000 | 0.000 | 0.000 | 0.000 | 0.047 | 1997 | 10.3 | 14.5 | 20.6 | 24.0 | 27.5 | 28.6 | 37.0 | 0.0 | 0.0 | 0.0 | 0.0 | 17.3 |
| 1998 | 0.013 | 0.027 | 0.062 | 0.106 | 0.168 | 0.248 | 0.258 | 0.604 | 0.714 | 0.000 | 0.000 | 0.079 | 1998 | 12.8 | 15.9 | 20.3 | 23.8 | 27.5 | 30.8 | 31.4 | 40.8 | 43.0 | 0.0 | 0.0 | 20.8 |
| 1999 | 0.008 | 0.017 | 0.044 | 0.100 | 0.124 | 0.171 | 0.259 | 0.295 | 0.533 | 0.000 | 0.000 | 0.060 | 1999 | 10.0 | 13.6 | 18.4 | 23.4 | 24.8 | 27.6 | 31.5 | 32.9 | 39.4 | 0.0 | 0.0 | 18.4 |
| 2000 | 0.013 | 0.018 | 0.059 | 0.113 | 0.152 | 0.223 | 0.241 | 0.454 | 0.000 | 0.000 | 0.000 | 0.055 | 2000 | 13.0 | 13.9 | 20.2 | 24.4 | 26.5 | 29.5 | 30.6 | 37.3 | 0.0 | 18.2 | 0.0 | 18.2 |
| 2001 | 0.000 | 0.018 | 0.040 | 0.103 | 0.129 | 0.169 | 0.246 | 0.411 | 0.431 | 0.000 | 0.000 | 0.059 | 2001 | 0.0 | 13.8 | 17.8 | 23.8 | 25.3 | 27.4 | 30.9 | 36.2 | 36.8 | 19.1 | 0.0 | 19.1 |
| 2002 | 0.000 | 0.022 | 0.046 | 0.085 | 0.163 | 0.223 | 0.222 | 0.318 | 0.432 | 0.000 | 0.000 | 0.074 | 2002 | 9.5 | 15.1 | 18.6 | 22.3 | 27.3 | 30.0 | 29.6 | 33.6 | 36.5 | 0.0 | 0.0 | 20.7 |
| 2003 | 0.030 | 0.024 | 0.078 | 0.102 | 0.141 | 0.161 | 0.283 | 0.137 | 0.326 | 1.776 | 1.725 | 0.034 | 2003 | 16.3 | 15.4 | 22.0 | 23.8 | 26.2 | 27.0 | 32.5 | 26.2 | 34.0 | 56.4 | 55.8 | 15.9 |
| 2004 | 0.004 | 0.018 | 0.051 | 0.119 | 0.251 | 0.316 | 0.402 | 0.705 | 1.049 | 1.141 | 1.148 | 0.038 | 2004 | 8.8 | 14.1 | 19.2 | 24.9 | 31.0 | 33.2 | 34.9 | 41.8 | 48.0 | 49.4 | 49.5 | 16.1 |
| 2005 | 0.009 | 0.017 | 0.049 | 0.118 | 0.151 | 0.191 | 0.191 | 0.000 | 0.000 | 0.000 | 1.628 | 0.026 | 2005 | 11.2 | 13.9 | 19.1 | 24.8 | 26.7 | 29.0 | 29.0 | 0.0 | 0.0 | 0.0 | 55.0 | 14.5 |
| 2006 | 0.010 | 0.029 | 0.066 | 0.134 | 0.229 | 0.265 | 0.253 | 1.001 | 1.183 | 1.110 | 1.183 | 0.063 | 2006 | 11.9 | 16.2 | 20.9 | 25.6 | 30.4 | 31.8 | 31.5 | 46.3 | 50.0 | 48.6 | 50.0 | 17.7 |
| 2007 | 0.008 | 0.029 | 0.081 | 0.162 | 0.243 | 0.299 | 0.319 | 0.266 | 0.000 | 0.000 | 0.000 | 0.031 | 2007 | 10.6 | 16.2 | 22.1 | 27.1 | 30.7 | 33.0 | 33.5 | 32.0 | 0.0 | 0.0 | 0.0 | 15.0 |
| 2008 | 0.003 | 0.029 | 0.059 | 0.142 | 0.202 | 0.243 | 0.276 | 0.330 | 0.000 | 0.000 | 0.000 | 0.074 | 2008 | 8.0 | 16.3 | 19.9 | 26.0 | 29.2 | 31.0 | 32.3 | 34.1 | 0.0 | 0.0 | 0.0 | 19.7 |
| 2009 | 0.000 | 0.036 | 0.068 | 0.086 | 0.110 | 0.133 | 0.133 | 0.000 | 0.000 | 0.000 | 0.000 | 0.072 | 2009 | 0.0 | 17.5 | 20.9 | 22.6 | 24.5 | 26.0 | 26.0 | 0.0 | 0.0 | 0.0 | 0.0 | 21.1 |
| 2010 | 0.000 | 0.031 | 0.048 | 0.114 | 0.113 | 0.122 | 0.117 | 0.000 | 0.000 | 0.000 | 0.000 | 0.045 | 2010 | 0.0 | 16.4 | 18.8 | 24.5 | 24.5 | 25.0 | 25.0 | 0.0 | 0.0 | 0.0 | 0.0 | 18.1 |
| 2011 | 0.005 | 0.020 | 0.032 | 0.074 | 0.097 | 0.224 | 0.342 | 0.682 | 0.609 | 0.219 | 1.087 | 0.039 | 2011 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 2012 | 0.005 | 0.020 | 0.032 | 0.074 | 0.097 | 0.224 | 0.342 | 0.682 | 0.609 | 0.219 | 1.090 | 0.039 | 2012 | 9.5 | 14.4 | 16.4 | 21.2 | 23.3 | 28.4 | 31.3 | 39.3 | 37.9 | 29.6 | 48.1 | 16.3 |
| 2013 | 0.007 | 0.031 | 0.054 | 0.087 | 0.114 | 0.142 | 0.170 | 0.197 | 0.185 | 0.299 | 0.266 | 0.058 | 2013 | 11.0 | 16.4 | 19.3 | 22.3 | 24.2 | 26.0 | 27.5 | 29.0 | 27.8 | 32.9 | 32.0 | 19.3 |
| 2014 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 2014 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 2015 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 2015 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 2016 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 2016 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 2017 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 2017 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 2018 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 2018 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

Table 7c. Large mesh fishery discards (including small mesh otter trawl, gillnet, and scallop) (thousands of fish; metric tons) mean weight (kg), and mean length (cm), at age, of American plaice from the Gulf of Maine and Georges Bank stock (NAFO Division 5Y and 5Z).

| | | | | | Ag | ge | | | | | | | | | | | | A | ge | | | | | | |
|--------------|------------|--------------|---------------|----------------|----------------|----------------|--------------|--------------|------------|------------|------------|--------------|--------------|-----|------------|-------------|--------------|---------------|--------------|--------------|------------|------------|------------|------------|------------|
| Year | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11+ | Total | Year | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11+ | Total |
| | | | <u> </u> | Large Mesh | Discards in | Numbers (0 | 000's) at A | <u>1e</u> | | | | | | | | <u>I</u> | _arge Mesh | Discards | in Weight (| Tons) at A | <u>ige</u> | | | | |
| 1980 | 5.2 | 98.9 | 935.7 | 1786.7 | 781.2 | 30.2 | 2.9 | 0.0 | 0.0 | 0.0 | 0.0 | 3641 | 1980 | 0.2 | 7.5 | 147.2 | 423.8 | 218.3 | 9.4 | 1.1 | 0.0 | 0.0 | 0.0 | 0.0 | 808 |
| 1981 | 4.2 | 246.7 | 495.9 | 436.9 | 157.6 | 29.8 | 19.9 | 5.4 | 0.0 | 0.0 | 0.0 | 1396 | 1981 | 0.2 | 21.9 | 61.7 | 70.0 | 26.7 | 5.6 | 3.4 | 1.1 | 0.0 | 0.0 | 0.0 | 191 |
| 1982 | 2.7 | 335.4 | 668.9 | 446.8 | 101.8 | 21.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1577 | 1982 | 0.1 | 42.1 | 98.8 | 69.3 | 18.6 | 3.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 233 |
| 1983 | 0.6 | 47.8 | 399.5 | 681.4 | 327.8 | 52.6 | 12.2 | 1.4 | 3.4 | 0.0 | 0.0 | 1527 | 1983 | 0.0 | 4.0 | 65.8 | 134.5 | 69.7 | 12.0 | 2.8 | 0.4 | 0.8 | 0.0 | 0.0 | 290 |
| 1984 | 0.0 | 65.0 | 249.1 | 549.4 | 718.1 | 281.5 | 16.3 | 0.3 | 0.0 | 0.0 | 0.0 | 1880 | 1984 | 0.0 | 6.7 | 40.2 | 112.4 | 172.8 | 71.3 | 5.2 | 0.1 | 0.0 | 0.0 | 0.0 | 409 |
| 1985 | 10.9 | 54.6 | 227.0 | 85.8 | 30.8 | 5.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 415 | 1985 | 0.3 | 4.8 | 25.4 | 11.3 | 4.8 | 0.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 48 |
| 1986 | 5.6 | 85.9 | 139.6 | 268.3 | 65.7 | 4.4 | 0.1 | 0.0 | 0.0 | 0.0 | 0.0 | 570 | 1986 | 0.2 | 6.2 | 17.9 | 44.7 | 12.4 | 0.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 82 |
| 1987 | 7.1 | 135.9 | 390.4 | 343.7 | 241.1 | 53.2 | 3.8 | 1.9 | 0.0 | 0.0 | 0.0 | 1177 | 1987 | 0.1 | 11.4 | 60.2 | 69.5 | 59.2 | 15.2 | 1.1 | 0.2 | 0.0 | 0.0 | 0.0 | 217 |
| 1988 | 30.4 | 197.1 | 606.9 | 276.6 | 50.3 | 5.7 | 0.2 | 0.0 | 0.0 | 0.0 | 0.0 | 1167 | 1988 | 0.6 | 13.5 | 100.1 | 53.5 | 11.3 | 1.5 | 0.1 | 0.0 | 0.0 | 0.0 | 0.0 | 181 |
| 1989 | 0.7 | 769.9 | 1260.2 | 1497.6 | 678.5 | 260.9 | 86.5 | 76.2 | 3.2 | 0.8 | 2.7 | 4637 | 1989 | 0.0 | 33.3 | 132.4 | 335.2 | 182.3 | 70.5 | 32.4 | 29.6 | 2.6 | 1.1 | 3.3 | 823 |
| 1990 | 0.0 | 175.6 | 1774.8 | 2187.3 | 898.8 | 205.9 | 80.2 | 55.9 | 0.1 | 0.0 | 0.0 | 5379 | 1990 | 0.0 | 4.9 | 256.9 | 502.4 | 244.0 | 58.8 | 25.1 | 16.8 | 0.1 | 0.0 | 0.0 | 1109 |
| 1991 | 0.0 | 31.0 | 421.0 | 3649.1 | 1997.0 | 156.7 | 7.4 | 1.4 | 0.8 | 0.0 | 0.0 | 6264 | 1991 | 0.0 | 1.2 | 54.2 | 894.2 | 624.5 | 65.2 | 5.4 | 1.0 | 0.5 | 0.0 | 0.0 | 1646 |
| 1992 | 0.0 | 3.4 | 224.8 | 899.4 | 1185.8 | 115.7 | 45.8 | 0.0 | 0.0 | 0.0 | 0.0 | 2475 | 1992 | 0.0 | 0.1 | 33.1 | 221.1 | 371.0 | 42.0 | 13.4 | 0.0 | 0.0 | 0.0 | 0.0 | 681 |
| 1993 | 0.0 | 3.6 | 311.1 | 1145.3 | 537.9 | 199.5 | 4.6 | 0.0 | 0.0 | 0.0 | 0.0 | 2202 | 1993 | 0.0 | 0.3 | 58.6 | 297.0 | 172.0 | 68.8 | 1.9 | 0.0 | 0.0 | 0.0 | 0.0 | 599 |
| 1994 | 0.0 | 2.4 | 114.3 | 858.5 | 1061.8 | 83.1 | 1.8 | 0.0 | 0.0 | 0.0 | 0.0 | 2122 | 1994 | 0.0 | 0.1 | 21.9 | 251.5 | 347.6 | 25.8 | 0.2 | 0.0 | 0.0 | 0.0 | 0.0 | 647 |
| 1995 | 4.0 | 484.4 | 1178.2 | 1982.4 | 597.5 | 176.2 | 18.1 | 15.5 | 0.3 | 0.0 | 0.0 | 4457 | 1995 | 0.0 | 18.9 | 144.9 | 509.1 | 185.9 | 66.4 | 8.1 | 6.9 | 0.4 | 0.0 | 0.0 | 941 |
| 1996 | 0.0 | 408.6 | 830.5 | 1114.4 | 368.7 | 123.2 | 44.1 | 4.4 | 3.5 | 2.6 | 6.2 | 2906 | 1996 | 0.0 | 12.5 | 53.2 | 169.4 | 135.9 | 56.5 | 18.7 | 5.7 | 5.9 | 4.8 | 12.6 | 475 |
| 1997 | 0.0 | 11.0 | 258.3 | 1216.2 | 1306.8 | 232.2 | 26.4 | 0.3 | 0.0 | 0.0 | 0.0 | 3051 | 1997 | 0.0 | 0.7 | 50.2 | 333.7 | 371.1 | 71.1 | 9.9 | 0.2 | 0.0 | 0.0 | 0.0 | 837 |
| 1998 | 0.0 | 26.0 | 189.8 | 596.7 | 1170.5 | 576.9 | 66.8 | 0.7 | 0.0 | 0.0 | 0.0 | 2628 | 1998 | 0.0 | 1.0 | 22.9 | 132.4 | 296.7 | 163.5 | 18.5 | 0.6 | 0.0 | 0.0 | 0.0 | 635 |
| 1999 | 0.0 | 16.4 | 103.1 | 889.4 | 671.1 | 721.8 | 226.6 | 46.4 | 2.4 | 0.4 | 0.0 | 2678 | 1999 | 0.0 | 0.7 | 11.9 | 193.1 | 183.6 | 231.1 | 78.8 | 17.1 | 2.1 | 0.4 | 0.0 | 719 |
| 2000 | 0.0 | 16.6 | 204.6 | 481.0 | 275.0 | 142.6 | 53.5 | 2.1 | 0.0 | 0.0 | 0.0 | 1175 | 2000 | 0.0 | 0.9 | 36.4 | 117.6 | 87.2 | 54.1 | 22.9 | 1.7 | 0.0 | 0.0 | 0.0 | 321 |
| 2001 | 0.0 | 8.5 | 193.5 | 665.8 | 485.5 | 269.7 | 81.1 | 21.8 | 7.2 | 0.1 | 7.2 | 1740 | 2001 | 0.0 | 0.3 | 28.1 | 168.9 | 151.6 | 88.6 | 27.9 | 7.2 | 2.6 | 0.0 | 2.4 | 478 |
| 2002 | 0.4 | 10.0 | 92.7 | 441.2 | 385.8 | 151.0 | 37.3 | 16.1 | 10.1 | 4.4 | 1.4 | 1150 | 2002 | 0.0 | 0.4 | 13.6 | 96.5 | 110.2 | 47.6 | 12.3 | 5.5 | 3.7 | 1.8 | 2.5 | 294 |
| 2003 | 1.7 | 23.0 | 37.1 | 191.0 | 555.5 | 216.0 | 32.9 | 34.6 | 12.4 | 0.3 | 9.4 | 1114 | 2003 | 0.0 | 0.8 | 3.8 | 38.1 | 155.7 | 69.7 | 11.7 | 10.4 | 4.7 | 0.3 | 2.6 | 298 |
| 2004 2005 | 1.5 0.5 | 27.6 | 180.3 | 308.1 266.0 | 468.5 | 366.6 | 71.3 59.3 | 14.4 | 4.5 0.7 | 1.5 0.4 | 1.1 | 1445 1087 | 2004 | 0.0 | 0.7 | 12.7 4.9 | 50.3 53.3 | 129.3 | 115.4 | 26.2 19.6 | 7.3 4.4 | 3.1 | 1.0 0.4 | 1.1 | 347 279 |
| 2005 | 0.5 4.2 | 14.9 33.4 | 73.3 111.8 | 358.6 | 448.1 324.0 | 212.5 156.7 | 70.8 | 11.0 16.6 | 2.3 | 5.3 | 0.3 0.6 | 1087 | 2005 2006 | 0.0 | 0.4 1.4 | 12.8 | 53.3 78.8 | 125.0 97.3 | 69.9 51.9 | 24.5 | 7.9 | 0.6 1.8 | 2.3 | 0.4 0.6 | 279 |
| 2007 | 0.8 | 26.0 | 166.4 | 329.4 | 217.5 | 93.5 | 18.7 | 5.3 | 0.9 | 2.9 | 0.0 | 861 | 2007 | 0.0 | 1.4 | 27.6 | 83.9 | 71.4 | 33.9 | 9.8 | 3.3 | 0.7 | 1.0 | 0.0 | 233 |
| 2007 | 0.6 | 6.8 | 63.4 | 318.9 | 339.2 | 100.2 | 42.1 | 32.5 | 1.6 | 2.9 | 1.2 | 909 | 2007 | 0.0 | 0.4 | 10.7 | 71.9 | 97.9 | 31.9 | 15.6 | 11.9 | 1.3 | 1.6 | 1.5 | 245 |
| 2009 | 1.0 | 16.1 | 45.5 | 278.2 | 404.6 | 370.2 | 147.0 | 78.3 | 15.3 | 0.3 | 0.8 | 1357 | 2009 | 0.0 | 0.4 | 6.5 | 62.0 | 113.1 | 111.8 | 48.3 | 26.4 | 6.3 | 0.1 | 0.6 | 376 |
| 2010 | 0.0 | 12.4 | 71.6 | 203.0 | 384.8 | 343.1 | 154.6 | 31.3 | 33.4 | 2.7 | 0.4 | 1237 | 2010 | 0.0 | 0.9 | 11.7 | 49.8 | 109.5 | 106.0 | 49.4 | 10.1 | 11.9 | 1.2 | 0.4 | 351 |
| 2011 | 3.2 | 7.7 | 20.8 | 76.6 | 140.3 | 173.5 | 165.3 | 108.1 | 36.3 | 15.7 | 3.5 | 751 | 2011 | 0.0 | 0.3 | 1.6 | 13.0 | 33.0 | 49.0 | 47.6 | 35.1 | 11.7 | 5.6 | 1.2 | 198 |
| 2012 | 0.0 | 7.7 | 50.6 | 166.0 | 208.1 | 200.1 | 121.1 | 132.5 | 72.1 | 19.3 | 4.5 | 982 | 2012 | 0.0 | 0.3 | 5.7 | 36.7 | 49.0 | 57.3 | 32.7 | 40.5 | 22.5 | 6.6 | 1.3 | 253 |
| 2012 | 0.3 | 17.9 | 122.5 | 165.2 | 79.2 | 124.4 | 46.7 | 55.1 | 36.9 | 15.8 | 6.1 | 670 | 2012 | 0.0 | 1.0 | 13.6 | 35.5 | 21.5 | 31.4 | 13.0 | 16.2 | 10.6 | 5.4 | 2.1 | 150 |
| 2014 | 0.0 | 5.6 | 32.9 | 123.9 | 91.1 | 31.2 | 36.5 | 10.7 | 10.8 | 13.9 | 9.3 | 366 | 2013 | 0.0 | 0.3 | 3.5 | 25.5 | 24.5 | 9.5 | 10.8 | 3.7 | 3.6 | 4.2 | 3.1 | 89 |
| 2015 | 0.0 | 19.0 | 95.1 | 102.6 | 73.5 | 31 | 11.4 | 12.1 | 4 | 3.2 | 2.7 | 355 | 2015 | 0.0 | 1.6 | 16.5 | 25.3 | 21.5 | 9.9 | 3.5 | 4.1 | 1.1 | 1.3 | 1.0 | 86 |
| 2016 | 0.3 | 6.7 | 202.5 | 112.2 | 58.5 | 21.5 | 8.3 | 5.9 | 9.1 | 3.3 | 7.5 | 436 | 2016 | 0.0 | 0.5 | 37.8 | 28.2 | 16.7 | 6.6 | 2.6 | 1.8 | 2.7 | 1.0 | 2.1 | 100 |
| 2017 | 0.0 | 10.3 | 37.7 | 219.0 | 83.5 | 25.4 | 15.9 | 5.3 | 2.2 | 3.6 | 2.9 | 406 | 2017 | 0.0 | 0.5 | 3.7 | 49.1 | 23.5 | 7.9 | 4.9 | 1.6 | 1.0 | 1.3 | 72.7 | 166 |
| 2018 | 0.6 | 1.9 | 29.0 | 56.3 | 171.1 | 76.7 | 27.6 | 16.2 | 5.9 | 6.7 | 12.2 | | 2018 | 0.0 | 0.1 | 3.7 | 12.1 | 48.0 | 22.5 | 9.0 | 5.5 | 1.9 | 2.3 | 4.5 | 110 |

Table 7c continued. Large mesh fishery discards (including small mesh otter trawl, gillnet, and scallop) (thousands of fish; metric tons) mean weight (kg), and mean length (cm), at age, of American plaice from the Gulf of Maine and Georges Bank stock (NAFO Division 5Y and 5Z).

| | | | | | | Age | | | | | | | _ | | | | | | | Age | | | | | | |
|-------------|-------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----|------------|------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|-------------|------------|-------|------------|
| Y ear | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11+ | Mean | Y | ear | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11+ | Mean |
| | | | Larg | ge Mesh | Discard | s Mean \ | Neight (| kg) at Ac | je | | | | | | | L | arge Me | sh Disca | ards Mea | an Lengt | h (cm) a | at Age | | | | |
| | | | | | | | | | _ | | | | | | | _ | - | | | | | | | | | |
| 980 | 0.030 | 0.076 | 0.157 | 0.237 | 0.279 | 0.311 | 0.392 | 0.000 | 0.000 | 0.000 | 0.000 | 0.222 | | 980 | | | | | | | | | | | | |
| 981 | 0.037 | 0.089 | 0.124 | 0.160 | 0.169 | 0.189 | 0.171 | 0.209 | 0.000 | 0.000 | 0.000 | 0.136 | | 981 | | | | | | | | | | | | |
| 982 | 0.029 | 0.126 | 0.148 | 0.155 | 0.182 | | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.147 | | 982 | | | | | | | | | | | | |
| 983 | | 0.083 | 0.165 | 0.197 | 0.213 | 0.228 | 0.234 | 0.308 | 0.229 | 0.000 | 0.000 | 0.190 | | 983 | | | | | | | | | | | | |
| 984 | 0.000 | 0.103 | 0.162 | 0.205 | 0.241 | 0.253 | 0.317 | 0.432 | 0.000 | 0.000 | 0.000 | 0.217 | | 984 | | | | | | | | | | | | |
| 985 | 0.030 | 0.088 | 0.112 | 0.132 | 0.155 | 0.168 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.115 | | 985 | | | | | | | | | | | | |
| 986 | 0.035 | 0.072 | 0.128 | 0.167 | 0.189 | 0.171 | 0.295 | 0.000 | 0.000 | 0.000 | 0.000 | 0.144 | | 986 | | | | | | | | | | | | |
| 987 | 0.020 | 0.084 | 0.154 | 0.202 | 0.246 | 0.286 | 0.295 | 0.116 | 0.000 | 0.000 | 0.000 | 0.184 | | 987 | | | | | | | | | | | | |
| 988 | 0.019 | 0.068 | 0.165 | 0.193 | 0.226 | 0.262 | 0.359 | 0.000 | 0.000 | 0.000 | 0.000 | 0.155 | | 988 | 40.0 | 40.0 | 00.0 | 00.4 | 04.0 | 04.0 | 047 | 05.5 | 40.5 | 54.0 | 50.0 | 07 |
| 989 | 0.010 | 0.044 | 0.105 | 0.224 | 0.269 | 0.270 | 0.374 | 0.388 | 0.800 | 1.350 | 1.232 | 0.177 | | 989 | 12.0 | 18.3 | 23.8 | 30.1 | 31.9 | 31.8 | 34.7 | 35.5 | 43.5 | 51.8 | 50.0 | 27. |
| 990 | 0.000 | 0.028 | 0.145 | 0.229 | 0.271 | 0.286 | 0.313 | 0.300 | 0.472 | 0.000 | 0.000 | 0.206 | | 990 | 0.0 | 16.0 | 26.2 | 30.3 | 32.0 | 32.6 | 33.5 | 33.0 | 38.0 | 0.0 | 0.0 | 28 |
| 991 | 0.000 | 0.038 | 0.129 | 0.245 | 0.313 | 0.416 | 0.732 | 0.660 | 0.675 | 0.000 | 0.000 | 0.263 | | 991 | 0.0 | 17.7 | 25.2 | 31.0 | 33.5 | 36.2 | 43.3 | 42.0 | 42.1 | 0.0 | 0.0 | 31. |
| 992 | 0.000 | 0.042 | 0.147 | 0.246 | 0.313 | 0.363 | 0.292 | 0.000 | 0.000 | 0.000 | 0.000 | 0.275 | | 992 | 0.0 | 17.9 | 26.5 | 31.1 | 33.5 | 35.1 | 32.9 | 0.0 | 0.0 | 0.0 | 0.0 | 32 32 |
| 993 | 0.000 | 0.083 | 0.188 | 0.259 | 0.320 | 0.345 | 0.409 | 0.000 | 0.000 | 0.000 | 0.000 | 0.272 | | 993 | 0.0 | 22.4 | 28.6 | 31.6 | 33.7 | 34.5 | 36.3 | 0.0 | 0.0 | 0.0 | 0.0 | |
| 994 | 0.000 | 0.056 | 0.192 | 0.293 | 0.327 | 0.311 | 0.133 | 0.000 0.447 | 0.000 | 0.000 | 0.000 | 0.305 0.211 | | 994 | 0.0 | 20.0 | 28.8 24.9 | 32.8 31.5 | 34.0 33.3 | 33.4 35.2 | 26.0 37.1 | 0.0 36.5 | 0.0 50.8 | 0.0 | 0.0 | 33 |
| 995 | 0.007 | 0.039 | 0.123 | 0.257 | 0.311 | 0.376 | 0.448 | | 1.258 | | | | | 995 006 | 11.0 | 17.6 | | | | | | | | 0.0 | 0.0 | 28 |
| 996 | 0.000 | 0.031 | 0.064 0.194 | 0.152 0.274 | 0.369 0.284 | 0.459 0.306 | 0.425 0.374 | 1.291 | 1.697 0.000 | 1.867 0.000 | 2.036 0.000 | 0.164 0.274 | | 996 | 0.0 | 16.5 | 20.4 28.8 | 26.3 32.1 | 34.1 32.4 | 36.7 | 35.2 | 51.0 | 55.2 | 57.3 | 58.8 | 25 |
| 997 998 | 0.000 | 0.060 0.037 | 0.194 | 0.274 | 0.254 | 0.306 | 0.374 | 0.561 0.772 | 0.000 | 0.000 | 0.000 | 0.274 | | 997 998 | 0.0 0.0 | 20.2 17.6 | 20.0 24.7 | 30.0 | 31.3 | 33.2 32.4 | 35.4 31.7 | 40.0 44.0 | 0.0 | 0.0 0.0 | 0.0 | 32. 30. |
| 999 | 0.000 | 0.037 | 0.121 | 0.222 | 0.234 | 0.204 | 0.277 | 0.772 | 0.855 | 1.106 | 0.000 | 0.242 | | 999 | 0.0 | 18.2 | 24.7 | 29.8 | 31.9 | 33.4 | 34.2 | 34.5 | 45.0 | 49.0 | 0.0 | 31. |
| 2000 | 0.000 | 0.051 | 0.177 | 0.217 | 0.214 | 0.379 | 0.427 | 0.800 | 0.714 | 0.000 | 0.000 | 0.200 | | 000 | 0.0 | 19.4 | 28.1 | 30.9 | 33.3 | 35.1 | 35.8 | 44.1 | 43.0 | 0.0 | 0.0 | 31. |
| 2001 | 0.000 | 0.031 | 0.177 | 0.254 | 0.312 | 0.329 | 0.344 | 0.330 | 0.714 | 0.432 | 0.326 | 0.273 | | 000 | 0.0 | 17.3 | 26.1 | 31.3 | 33.4 | 34.0 | 34.5 | 34.0 | 35.3 | 37.0 | 34.0 | 31. |
| 2002 | 0.007 | 0.030 | 0.143 | 0.234 | 0.312 | 0.325 | 0.328 | 0.341 | 0.370 | 0.401 | 1.815 | 0.274 | | 001 | 11.0 | 17.3 | 26.1 | 29.7 | 32.4 | 33.4 | 33.6 | 33.8 | 34.7 | 35.0 | 56.7 | 31. |
| 2003 | 0.007 | 0.035 | 0.102 | 0.199 | 0.280 | 0.323 | 0.357 | 0.301 | 0.379 | 0.795 | 0.277 | 0.267 | | 002 | 10.9 | 17.3 | 23.8 | 28.9 | 32.3 | 33.7 | 34.5 | 32.7 | 35.2 | 44.1 | 32.2 | 31. |
| 2004 | 0.006 | 0.025 | 0.070 | 0.163 | 0.276 | 0.315 | 0.368 | 0.506 | 0.678 | 0.671 | 0.920 | 0.240 | | 004 | 10.1 | 15.3 | 21.1 | 27.4 | 32.2 | 33.4 | 34.7 | 38.0 | 42.0 | 41.6 | 45.7 | 30. |
| 2005 | 0.009 | 0.025 | 0.066 | 0.200 | 0.279 | 0.329 | 0.332 | 0.401 | 0.823 | 1.012 | 1.220 | 0.256 | | 005 | 11.6 | 15.7 | 20.9 | 29.0 | 32.2 | 33.9 | 33.6 | 35.7 | 44.5 | 46.9 | 49.3 | 30 |
| 2006 | 0.010 | 0.041 | 0.114 | 0.220 | 0.300 | 0.332 | 0.346 | 0.478 | 0.797 | 0.430 | 0.974 | 0.258 | | 006 | 12.0 | 17.9 | 24.5 | 29.9 | 33.0 | 34.0 | 34.3 | 37.3 | 44.3 | 36.2 | 46.8 | 30 |
| 2007 | 0.010 | 0.066 | 0.166 | 0.255 | 0.329 | 0.363 | 0.526 | 0.611 | 0.738 | 0.360 | 1.057 | 0.271 | | 007 | 11.8 | 20.6 | 27.5 | 31.4 | 33.9 | 34.8 | 38.7 | 40.1 | 43.2 | 34.5 | 48.3 | 31 |
| 2008 | 0.005 | 0.052 | 0.169 | 0.225 | 0.289 | 0.319 | 0.371 | 0.366 | 0.792 | 0.554 | 1.244 | 0.269 | | 800 | 10.0 | 19.2 | 27.0 | 30.1 | 32.6 | 33.6 | 35.1 | 35.0 | 43.8 | 39.2 | 50.1 | 31 |
| 2009 | 0.010 | 0.052 | 0.144 | 0.223 | 0.280 | 0.302 | 0.328 | 0.337 | 0.415 | 0.460 | 0.739 | 0.277 | | 009 | 11.7 | 19.0 | 25.9 | 29.8 | 32.2 | 33.0 | 33.8 | 34.3 | 36.2 | 37.6 | 43.3 | 31 |
| 010 | 0.000 | 0.074 | 0.164 | 0.246 | 0.284 | 0.309 | 0.320 | 0.323 | 0.355 | 0.442 | 1.107 | 0.284 | | 010 | 0.0 | 21.3 | 26.9 | 31.0 | 32.4 | 33.3 | 33.6 | 33.7 | 34.8 | 37.1 | 47.5 | 32 |
| 011 | 0.012 | 0.041 | 0.077 | 0.169 | 0.235 | 0.283 | 0.288 | 0.325 | 0.322 | 0.36 | 0.343 | 0.264 | | 011 | 12.6 | 17.6 | 21.6 | 27.6 | 30.4 | 32.3 | 32.5 | 33.8 | 33.7 | 34.9 | 34.4 | 31 |
| 012 | 0.007 | 0.041 | 0.113 | 0.221 | 0.235 | 0.286 | 0.27 | 0.305 | 0.312 | 0.344 | 0.289 | 0.257 | | 012 | 11.0 | 17.8 | 23.9 | 29.6 | 30.4 | 32.5 | 31.9 | 33.2 | 33.4 | 34.4 | 32.5 | 31 |
| 013 | 0.006 | 0.059 | 0.111 | 0.215 | 0.272 | 0.252 | 0.278 | 0.293 | 0.286 | 0.342 | 0.344 | 0.224 | | 013 | 10.4 | 19.7 | 24.0 | 29.6 | 31.7 | 31.0 | 32.1 | 32.8 | 32.5 | 34.4 | 34.3 | 29 |
| 014 | 0.008 | 0.045 | 0.107 | 0.206 | 0.269 | 0.304 | 0.296 | 0.345 | 0.338 | 0.303 | 0.336 | | | 014 | 11.3 | 18.2 | 23.9 | 29.3 | 31.7 | 32.9 | 32.5 | 34.0 | 34.0 | 33.0 | 33.9 | 30 |
| 015 | 0.011 | 0.085 | 0.173 | 0.247 | 0.293 | 0.319 | 0.303 | 0.333 | 0.274 | 0.387 | 0.364 | | | 015 | 12.4 | 22.1 | 27.7 | 30.9 | 32.6 | 33.5 | 32.9 | 33.9 | 31.5 | 35.5 | 43.0 | |
| 016 | 0.021 | 0.077 | 0.187 | 0.252 | 0.286 | 0.307 | 0.310 | 0.304 | 0.301 | 0.307 | 0.284 | | | 016 | 15.0 | 21.7 | 28.4 | 31.1 | 32.3 | 32.9 | 32.9 | 33.0 | 32.9 | 33.2 | 36.0 | |
| 017 | 0.000 | 0.046 | 0.099 | 0.224 | 0.282 | 0.313 | 0.311 | 0.295 | 0.438 | 0.374 | 0.392 | | | 017 | 0.0 | 18.7 | 23.3 | 29.9 | 32.0 | 32.9 | 32.7 | 32.1 | 36.7 | 34.3 | 35.0 | |
| 018 | | | 0.129 | 0.216 | 0.280 | 0.293 | 0.326 | 0.340 | 0.319 | 0.348 | 0.367 | _ | | 018 | 13.3 | 17.2 | 25.4 | 29.6 | 32.1 | 32.6 | 33.5 | 33.9 | 32.9 | 34.3 | 34.9 | |
| | 0.017 | 3.000 | 5.120 | 0.2.0 | 5.200 | 3.230 | 3.020 | 3.0 10 | 3.010 | 3.0 10 | 3.007 | J.L. 1 | 20 | | 10.0 | | _0 | 20.0 | J | 02.0 | 55.5 | 00.0 | 02.0 | 0 1.0 | 5 1.5 | 01. |

Table 7d. Total catch (thousands of fish; metric tons) and mean weight (kg), at age, of American plaice from the Gulf of Maine and Georges Bank stock (NAFO Division 5Y and 5Z).

| | | | | | | Age | | | | | | | | | | | | | Age | | | | | | |
|------|-----|------|------|------|----------|----------|-----------|-----------|------|-----------|------|-------|------|---|------|-----|----------|------------|-----------|-----------|------|------|------|------|-------|
| Year | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11+ | Total | Year | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11+ | Total |
| | | | | Catc | h in Num | bers (00 | 0's) at A | <u>ge</u> | | | | | | | | | <u>C</u> | Catch in V | Veight (T | ons) at A | \ge | | | | |
| 1980 | 5 | 99 | 1072 | 2672 | 3939 | 3933 | 3632 | 1185 | 1139 | 850 | 1380 | 19906 | 1980 | 0 | 8 | 165 | 715 | 1611 | 2571 | 3009 | 1232 | 1347 | 1168 | 2616 | 14442 |
| 1981 | 5 | 982 | 2192 | 5056 | 5338 | 3649 | 2401 | 1582 | 645 | 440 | 621 | 22912 | 1981 | 0 | 106 | 370 | 1599 | 2360 | 2838 | 2125 | 1547 | 729 | 552 | 963 | 13189 |
| 1982 | 10 | 603 | 3349 | 4575 | 4504 | 3599 | 3298 | 2038 | 1256 | 737 | 718 | 24686 | 1982 | 0 | 69 | 768 | 1323 | 1884 | 2028 | 3165 | 2320 | 1502 | 1144 | 1364 | 15570 |
| 1983 | 15 | 663 | 1478 | 5174 | 4915 | 3910 | 2269 | 1271 | 701 | 449 | 911 | 21756 | 1983 | 0 | 22 | 273 | 1956 | 2605 | 2616 | 1867 | 1325 | 868 | 650 | 1530 | 13712 |
| 1984 | 3 | 370 | 991 | 2422 | 6031 | 3244 | 1936 | 580 | 274 | 307 | 769 | 16927 | 1984 | 0 | 17 | 160 | 735 | 3159 | 2046 | 1720 | 689 | 310 | 421 | 1506 | 10761 |
| 1985 | 65 | 158 | 1217 | 1336 | 2405 | 2872 | 2228 | 1081 | 438 | 267 | 182 | 12250 | 1985 | 1 | 9 | 102 | 279 | 796 | 1534 | 1887 | 1263 | 603 | 445 | 387 | 7306 |
| 1986 | 59 | 639 | 738 | 2284 | 1700 | 1476 | 1307 | 631 | 255 | 105 | 100 | 9295 | 1986 | 1 | 27 | 102 | 523 | 652 | 867 | 1101 | 741 | 380 | 183 | 219 | 4796 |
| 1987 | 38 | 590 | 1840 | 1439 | 2282 | 1337 | 895 | 543 | 187 | 62 | 60 | 9274 | 1987 | 0 | 27 | 241 | 337 | 934 | 815 | 799 | 637 | 278 | 107 | 137 | 4312 |
| 1988 | 314 | 786 | 1840 | 1833 | 1597 | 1444 | 553 | 270 | 177 | 88 | 55 | 8957 | 1988 | 5 | 36 | 293 | 521 | 716 | 927 | 486 | 333 | 247 | 151 | 124 | 3839 |
| 1989 | 15 | 2346 | 2713 | 2676 | 1589 | 864 | 857 | 552 | 196 | 104 | 118 | 12030 | 1989 | 0 | 84 | 280 | 643 | 568 | 386 | 590 | 435 | 260 | 152 | 227 | 3625 |
| 1990 | 0 | 1074 | 4923 | 4023 | 2156 | 739 | 384 | 416 | 193 | 96 | 161 | 14165 | 1990 | 0 | 41 | 607 | 1018 | 842 | 398 | 269 | 358 | 210 | 125 | 273 | 4141 |
| 1991 | 0 | 240 | 1011 | 6134 | 4966 | 1275 | 329 | 167 | 203 | 98 | 105 | 14528 | 1991 | 0 | 7 | 113 | 1857 | 2203 | 863 | 315 | 193 | 258 | 150 | 190 | 6149 |
| 1992 | 10 | 250 | 933 | 1856 | 6148 | 2682 | 862 | 191 | 131 | 118 | 93 | 13274 | 1992 | 0 | 8 | 108 | 574 | 3018 | 1939 | 789 | 237 | 173 | 193 | 188 | 7226 |
| 1993 | 22 | 278 | 557 | 2210 | 2584 | 2654 | 1387 | 265 | 287 | 151 | 125 | 10519 | 1993 | 0 | 9 | 122 | 767 | 1229 | 1661 | 1308 | 327 | 400 | 238 | 289 | 6349 |
| 1994 | 58 | 884 | 409 | 1779 | 2937 | 1349 | 1160 | 598 | 235 | 150 | 291 | 9851 | 1994 | 0 | 23 | 77 | 639 | 1339 | 819 | 922 | 647 | 303 | 213 | 705 | 5688 |
| 1995 | 46 | 2565 | 1890 | 2745 | 3473 | 1914 | 661 | 594 | 211 | 53 | 50 | 14201 | 1995 | 0 | 72 | 237 | 818 | 1662 | 1201 | 536 | 655 | 281 | 111 | 96 | 5669 |
| 1996 | 12 | 1292 | 1546 | 4118 | 2831 | 1548 | 582 | 244 | 127 | 37 | 70 | 12408 | 1996 | 0 | 47 | 142 | 1240 | 1383 | 975 | 508 | 294 | 177 | 59 | 155 | 4980 |
| 1997 | 15 | 638 | 388 | 2597 | 3946 | 1781 | 640 | 182 | 85 | 66 | 116 | 10454 | 1997 | 0 | 13 | 59 | 882 | 1611 | 1053 | 514 | 205 | 114 | 104 | 282 | 4837 |
| 1998 | 37 | 87 | 323 | 849 | 2716 | 2477 | 1067 | 319 | 60 | 57 | 155 | 8147 | 1998 | 1 | 3 | 33 | 209 | 959 | 1265 | 843 | 329 | 80 | 83 | 510 | 4315 |
| 1999 | 4 | 216 | 178 | 1193 | 1701 | 2415 | 1393 | 490 | 150 | 42 | 79 | 7862 | 1999 | 0 | 4 | 16 | 299 | 673 | 1225 | 953 | 427 | 166 | 62 | 151 | 3976 |
| 2000 | 3 | 309 | 510 | 956 | 1743 | 2274 | 1775 | 569 | 138 | 70 | 20 | 8365 | 2000 | 0 | 6 | 94 | 298 | 796 | 1292 | 1348 | 572 | 151 | 99 | 37 | 4693 |
| 2001 | 0 | 93 | 468 | 1142 | 2437 | 2285 | 1609 | 922 | 296 | 57 | 53 | 9362 | 2001 | 0 | 2 | 39 | 352 | 1034 | 1179 | 1113 | 767 | 309 | 82 | 80 | 4958 |
| 2002 | 1 | 13 | 111 | 787 | 1468 | 1826 | 1200 | 520 | 285 | 163 | 178 | 6553 | 2002 | 0 | 0.5 | 15 | 232 | 609 | 924 | 802 | 459 | 297 | 199 | 258 | 3795 |
| 2003 | 12 | 691 | 49 | 329 | 1327 | 1294 | 733 | 548 | 274 | 151 | 117 | 5525 | 2003 | 0 | 16.6 | .5 | 90 | 497 | 676 | 499 | 449 | 260 | 167 | 145 | 2806 |
| 2004 | 6 | 139 | 224 | 441 | 938 | 1225 | 519 | 372 | 200 | 79 | 76 | 4218 | 2004 | 0 | 2.7 | 17 | 107 | 352 | 595 | 336 | 291 | 194 | 80 | 91 | 2066 |
| 2005 | 34 | 286 | 110 | 464 | 1053 | 808 | 459 | 184 | 101 | 44 | 51 | 3594 | 2005 | 0 | 5.0 | 8 | 134 | 417 | 407 | 295 | 156 | 95 | 47 | 65 | 1629 |
| 2006 | 29 | 88 | 131 | 534 | 823 | 563 | 367 | 195 | 101 | 61 | 44 | 2936 | 2006 | 0 | 2.9 | 15 | 153 | 337 | 289 | 225 | 160 | 93 | 60 | 57 | 1391 |
| 2007 | 161 | 238 | 226 | 647 | 815 | 505 | 229 | 101 | 59 | 26 | 24 | 3032 | 2007 | 1 | 7.8 | 40 | 211 | 353 | 267 | 151 | 84 | 59 | 29 | 34 | 1236 |
| 2008 | 15 | 55 | 144 | 539 | 898 | 576 | 349 | 185 | 93 | 89 | 61 | 3005 | 2008 | 0 | 1.8 | 27 | 159 | 368 | 283 | 205 | 113 | 72 | 65 | 63 | 1356 |
| 2009 | 1 | 52 | 92 | 469 | 1023 | 1008 | 580 | 440 | 142 | 46 | 90 | 3943 | 2009 | 0 | 2.1 | 10 | 126 | 399 | 458 | 299 | 242 | 98 | 39 | 95 | 1768 |
| 2010 | 0 | 496 | 425 | 514 | 741 | 1132 | 691 | 246 | 140 | 107 | 78 | 4569 | 2010 | | 15.8 | 42 | 183 | 272 | 518 | 377 | 158 | 90 | 64 | 75 | 1795 |
| 2011 | 5 | 192 | 141 | 196 | 413 | 883 | 869 | 483 | 127 | 70 103 | 51 | 3431 | 2011 | 0 | 4.0 | 5 | 57 72 | 173 | 445 | 457 | 274 | 77 | 45 | 44 | 1581 |
| 2012 | 4 | 436 | 357 | 301 | 540 | 589 | 727 | 762 | 335 | 103 | 97 | 4250 | 2012 | 0 | 8.7 | 30 | 72 | 197 | 275 | 393 | 421 | 203 | 68 | 79 | 1746 |
| 2013 | 0 | 27 | 159 | 303 | 386 | 585 | 379 | 456 | 364 | 181 | 83 | 2924 | 2013 | 0 | 1.3 | 23 | 95 | 172 | 278 | 212 | 259 | 219 | 110 | 80 | 1449 |
| 2014 | 0 | 6 | 59 | 369 | 432 | 263 | 626 | 194 | 192 | 153 | 147 | 2441 | 2014 | 0 | 0.3 | 14 | 131 | 190 | 143 | 353 | 127 | 131 | 118 | 121 | 1328 |
| 2015 | 0 | 19 | 154 | 383 | 463 | 340 | 261 | 346 | 113 | 145 | 140 | | 2015 | 0 | 2 | 40 | 160 | 229 | 190 | 162 | 225 | 88 | 105 | 115 | 1317 |
| 2016 | 0 | 7 | 235 | 295 | 352 | 289 | 185 | 118 | 206 | 69 135 | 195 | _ | 2016 | 0 | 1 | 52 | 118 | 178 | 173 | 126 | 84 | 152 | 59 | 167 | 1109 |
| 2017 | 0 | 10 | 42 | 548 | 439 | 329 | 235 | 105 | 111 | 135 | 152 | 2106 | 2017 | 0 | 0 | 6 | 200 | 222 | 201 | 156 | 82 | 94 | 114 | 225 | 1300 |
| 2018 | 26 | 89 | 198 | 235 | 636 | 426 | 309 | 190 | 131 | 86 | 201 | 2528 | 2018 | 1 | 10 | 32 | 62 | 256 | 206 | 179 | 119 | 95 | 67 | 170 | 1196 |

Table 7d – continued. Total catch (thousands of fish; metric tons) and mean weight (kg), at age, of American plaice from the Gulf of Maine and Georges Bank stock (NAFO Division 5Y and 5Z).

| | | | | | | Age | | | | | | |
|--------------|----------------|-------|----------------|-------|------------------|--------------|-------------|-----------|-------|-------|-------|--------------|
| Year | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11+ | Mean |
| | | | | 0-4 | - h M | / ۱۸/م:مالمد | l.=\ =+ ^ = | | | | | |
| | | | | Cate | <u>on iviean</u> | Weight (| kg) at Ag | <u>je</u> | | | | |
| 1980 | 0.030 | 0.076 | 0.154 | 0.267 | 0.409 | 0.653 | 0.829 | 1.039 | 1.183 | 1.374 | 1.895 | 0.80 |
| 1981 | 0.032 | 0.108 | 0.168 | 0.316 | 0.442 | 0.778 | 0.885 | 0.978 | 1.130 | 1.254 | 1.551 | 0.60 |
| 1982 | 0.018 | 0.115 | 0.230 | 0.290 | 0.418 | 0.564 | 0.960 | 1.138 | 1.196 | 1.552 | 1.901 | 0.66 |
| 1983 | 0.013 | 0.033 | 0.185 | 0.378 | 0.530 | 0.670 | 0.823 | 1.042 | 1.238 | 1.446 | 1.680 | 0.67 |
| 1984 | 0.004 | 0.045 | 0.161 | 0.303 | 0.524 | 0.630 | 0.888 | 1.187 | 1.133 | 1.369 | 1.958 | 0.69 |
| 1985 | 0.018 | 0.058 | 0.084 | 0.209 | 0.331 | 0.534 | 0.847 | 1.167 | 1.377 | 1.665 | 2.128 | 0.61 |
| 1986 | 0.016 | 0.042 | 0.138 | 0.229 | 0.384 | 0.587 | 0.842 | 1.174 | 1.491 | 1.747 | 2.194 | 0.53 |
| 1987 | 0.013 | 0.046 | 0.131 | 0.234 | 0.409 | 0.609 | 0.892 | 1.173 | 1.483 | 1.732 | 2.284 | 0.47 |
| 1988 | 0.016 | 0.046 | 0.159 | 0.284 | 0.449 | 0.641 | 0.880 | 1.231 | 1.396 | 1.717 | 2.238 | 0.44 |
| 1989 | 0.009 | 0.036 | 0.103 | 0.240 | 0.358 | 0.447 | 0.689 | 0.787 | 1.325 | 1.462 | 1.924 | 0.31 |
| 1990 | 0.000 | 0.038 | 0.123 | 0.253 | 0.390 | 0.539 | 0.699 | 0.860 | 1.088 | 1.305 | 1.696 | 0.30 |
| 1991 | 0.004 | 0.027 | 0.112 | 0.302 | 0.444 | 0.677 | 0.958 | 1.157 | 1.274 | 1.541 | 1.813 | 0.43 |
| 1992 | 0.006 | 0.032 | 0.116 | 0.309 | 0.491 | 0.723 | 0.915 | 1.240 | 1.319 | 1.640 | 2.007 | 0.55 |
| 1993 | 0.003 | 0.032 | 0.219 | 0.347 | 0.476 | 0.626 | 0.943 | 1.234 | 1.394 | 1.577 | 2.313 | 0.62 |
| 1994 | 0.003 | 0.032 | 0.188 | 0.359 | 0.456 | 0.607 | 0.794 | 1.083 | 1.289 | 1.424 | 2.424 | 0.63 |
| 1995 | 0.004 | 0.028 | 0.126 | 0.333 | 0.430 | 0.656 | 0.794 | 1.149 | 1.100 | 2.105 | 1.921 | 0.41 |
| 1996 | 0.003 | 0.020 | 0.092 | 0.301 | 0.489 | 0.630 | 0.872 | 1.204 | 1.391 | 1.586 | 2.224 | 0.41 |
| 1997 | 0.006 | 0.021 | 0.052 | 0.339 | 0.408 | 0.591 | 0.804 | 1.126 | 1.336 | 1.570 | 2.425 | 0.48 |
| 1998 | 0.000 | 0.021 | 0.101 | 0.333 | 0.400 | 0.511 | 0.791 | 1.031 | 1.350 | 1.463 | 3.293 | 0.58 |
| 1999 | 0.013 | 0.030 | 0.087 | 0.250 | 0.396 | 0.507 | 0.685 | 0.872 | 1.109 | 1.458 | 1.908 | 0.52 |
| 2000 | 0.003 | 0.020 | 0.007 | 0.311 | 0.456 | 0.568 | 0.760 | 1.007 | 1.094 | 1.411 | 1.864 | 0.56 |
| 2000 | 0.000 | 0.020 | 0.184 | 0.308 | 0.424 | 0.516 | 0.692 | 0.833 | 1.042 | 1.454 | 1.500 | 0.53 |
| 2001 | 0.000 | 0.019 | 0.063 | 0.306 | 0.424 | 0.506 | 0.668 | 0.883 | 1.042 | 1.223 | 1.446 | 0.60 |
| 2002 | 0.002 | 0.033 | 0.130 | 0.233 | 0.415 | 0.523 | 0.682 | 0.819 | 0.949 | 1.106 | 1.241 | 0.52 |
| 2003 | 0.027 | 0.024 | 0.090 | 0.274 | 0.375 | 0.323 | 0.647 | 0.782 | 0.949 | 1.009 | 1.207 | 0.52 |
| 2004 | 0.003 | 0.019 | 0.073 | 0.289 | 0.375 | 0.504 | 0.642 | 0.782 | 0.946 | 1.009 | 1.280 | 0.46 |
| 2005 | 0.009 | 0.017 | 0.070 | 0.286 | 0.409 | 0.514 | 0.612 | 0.819 | 0.940 | 0.976 | 1.296 | 0.48 |
| 2007 | 0.010 | 0.033 | 0.111 | 0.236 | 0.433 | 0.528 | 0.661 | 0.819 | 0.922 | 1.104 | 1.449 | 0.40 |
| 2007 | 0.003 | 0.033 | 0.170 | 0.320 | 0.433 | 0.320 | 0.585 | 0.610 | 0.333 | 0.724 | 1.039 | 0.41 |
| 2009 | 0.003 | 0.032 | 0.107 | 0.269 | 0.389 | 0.454 | 0.515 | 0.550 | 0.692 | 0.724 | 1.039 | 0.46 |
| 2010 | 0.000 | 0.032 | 0.103 | 0.356 | 0.367 | 0.457 | 0.546 | 0.644 | 0.641 | 0.605 | 0.966 | 0.40 |
| 2010 | 0.000 | 0.032 | 0.039 | 0.330 | 0.367 | 0.437 | 0.526 | 0.566 | 0.604 | 0.646 | 0.856 | 0.46 |
| 2011 | 0.009 | 0.021 | 0.039 | 0.292 | 0.416 | 0.504 | 0.526 | 0.553 | 0.604 | 0.656 | 0.817 | 0.40 |
| 2012 | 0.005 | 0.020 | 0.063 | 0.236 | 0.365 | 0.467 | 0.558 | 0.568 | 0.606 | 0.605 | 0.017 | 0.42 |
| 2013 | | | 0.144 | | | | | | | | | |
| | 0.008 | 0.045 | | 0.356 | 0.441 | 0.542 | 0.563 | 0.653 | 0.683 | 0.767 | 0.825 | 0.56 |
| 2015 2016 | 0.011 0.021 | 0.085 | 0.262 0.220 | 0.418 | 0.495 | 0.559 | 0.621 | 0.650 | 0.777 | 0.720 | 0.824 | 0.60 |
| | | 0.077 | | 0.399 | 0.505 | 0.600 | 0.680 | 0.716 | 0.738 | 0.854 | 0.855 | 0.65 0.65 |
| 2017 | 0.000 | 0.046 | 0.135 | 0.365 | 0.506 | 0.610 | 0.665 | 0.785 | 0.850 | 0.839 | 1.010 | |
| 2018 | 0.021 | 0.111 | 0.162 | 0.262 | 0.402 | 0.483 | 0.578 | 0.630 | 0.723 | 0.784 | 0.844 | 0.54 |
| | | | | | | | | | | | | |

Table 8a. Standardized stratified mean catch per tow in numbers and weight (kg) and coefficient of variation (CV) for American plaice in NEFSC offshore spring and autumn research vessel bottom trawl surveys.

| | | NEFS | C Spring | | | NEFSC | C Autumn | |
|--------------|-------------|--------------|------------|--------------|-------------|--------------|------------|--------------|
| Year | No/Tow | CV | Wt/Tow | CV | No/Tow | CV | Wt/Tow | CV |
| | | | | | | | | |
| 1963 | - | - | - | - | 14.2 | 13.8 | 5.7 | 14.8 |
| 1964 | = | - | - | - | 8.2 | 13.0 | 2.8 | 13.2 |
| 1965 | - | - | = | - | 11.9 | 12.2 | 3.8 | 11.9 |
| 1966 | = | - | - | - | 18.3 | 14.3 | 4.9 | 13.3 |
| 1967 | - 11.0 | - 10 F | - | - 16 E | 11.0 | 20.4 | 2.7 | 20.5 |
| 1968 1969 | 11.2 8.3 | 18.5 13.0 | 3.3 2.6 | 16.5 12.0 | 8.6 7.5 | 14.9 14.9 | 2.9 2.2 | 15.9 13.4 |
| 1970 | 5.4 | 11.3 | 1.8 | 11.6 | 6.5 | 13.7 | 2.0 | 13.4 |
| 1971 | 3.8 | 12.8 | 1.3 | 14.5 | 7.5 | 15.7 | 2.0 | 18.9 |
| 1972 | 4.3 | 9.9 | 1.3 | 11.6 | 7.4 | 13.9 | 1.6 | 12.6 |
| 1973 | 7.2 | 11.1 | 1.9 | 11.0 | 6.2 | 9.7 | 1.9 | 14.5 |
| 1974 | 8.3 | 24.5 | 1.9 | 16.9 | 6.9 | 23.1 | 1.4 | 21.1 |
| 1975 | 5.8 | 14.6 | 1.7 | 12.4 | 8.1 | 10.9 | 2.4 | 10.2 |
| 1976 | 11.9 | 12.1 | 3.4 | 9.7 | 10.0 | 17.3 | 3.0 | 13.1 |
| 1977 | 14.6 | 11.2 | 5.1 | 18.6 | 11.8 | 9.3 | 3.5 | 9.4 |
| 1978 | 10.6 | 9.9 | 3.8 | 9.9 | 15.1 | 8.6 | 4.7 | 10.4 |
| 1979 | 9.2 | 8.1 | 3.5 | 10.2 | 10.0 | 8.3 | 4.0 | 9.8 |
| 1980 | 18.3 | 14.5 | 4.8 | 9.2 | 14.2 | 9.5 | 5.1 | 11.7 |
| 1981 | 18.7 | 10.0 | 5.9 | 10.5 | 13.0 | 10.8 | 5.6 | 13.2 |
| 1982 | 11.6 | 15.0 | 3.8 | 12.9 | 5.9 | 14.1 | 2.5 | 16.4 |
| 1983 | 16.9 | 24.3 | 4.6 | 13.6 | 9.3 | 12.3 | 3.4 | 14.2 |
| 1984 | 4.1 | 15.6 | 1.4 | 10.8 | 7.1 | 18.3 | 2.0 | 13.6 |
| 1985 | 4.9 | 9.9 | 1.9 | 10.2 | 6.9 | 13.1 | 2.0 | 12.7 |
| 1986 | 3.1 | 18.4 | 0.9 | 14.3 | 5.6 | 21.8 | 1.6 | 15.7 |
| 1987 | 3.5 | 13.9 | 0.8 | 13.0 | 4.4 | 12.0 | 1.1 | 12.3 |
| 1988 | 3.6 | 18.1 | 0.8 | 13.6 | 9.7 | 30.0 | 1.5 | 18.1 |
| 1989 | 4.8 | 16.1 | 0.7 | 14.2 | 9.2 | 19.8 | 1.2 | 16.7 |
| 1990 | 5.1 | 19.4 | 0.8 | 11.9 | 15.5 | 15.2 | 2.9 | 13.3 |
| 1991 1992 | 5.9 4.1 | 16.4 | 1.0 1.4 | 13.5 11.7 | 7.7 6.3 | 11.7 17.6 | 1.6 1.8 | 9.7 16.2 |
| 1992 | 5.3 | 11.6 13.3 | 1.4 | 11.7 | 11.9 | 15.7 | 2.4 | 14.6 |
| 1994 | 4.9 | 14.9 | 0.9 | 11.7 | 18.1 | 20.3 | 2.7 | 16.1 |
| 1995 | 9.4 | 17.6 | 1.9 | 11.2 | 11.8 | 13.9 | 2.6 | 14.5 |
| 1996 | 7.8 | 14.5 | 1.7 | 10.6 | 7.6 | 14.1 | 2.2 | 19.4 |
| 1997 | 7.6 | 33.7 | 1.6 | 20.6 | 6.3 | 13.2 | 1.9 | 16.0 |
| 1998 | 4.5 | 12.5 | 1.1 | 10.1 | 9.3 | 15.3 | 2.2 | 13.7 |
| 1999 | 4.2 | 14.4 | 1.2 | 14.2 | 11.0 | 18.0 | 2.6 | 18.7 |
| 2000 | 10.0 | 17.5 | 2.3 | 14.7 | 12.2 | 22.5 | 2.8 | 21.9 |
| 2001 | 10.6 | 15.8 | 2.2 | 12.3 | 10.4 | 20.5 | 2.6 | 20.0 |
| 2002 | 6.7 | 9.8 | 1.8 | 10.2 | 9.7 | 18.4 | 2.2 | 21.3 |
| 2003 | 4.2 | 12.0 | 0.9 | 10.4 | 9.3 | 20.7 | 2.3 | 32.1 |
| 2004 | 8.2 | 25.9 | 1.4 | 20.3 | 5.4 | 10.8 | 1.0 | 17.2 |
| 2005 | 5.0 | 31.1 | 0.8 | 32.9 | 5.8 | 15.7 | 1.0 | 21.1 |
| 2006 | 7.4 | 17.2 | 1.0 | 14.6 | 12.5 | 19.7 | 1.7 | 15.3 |
| 2007 | 10.0 | 13.2 | 1.3 | 12.6 | 11.0 | 20.2 | 1.4 | 19.1 |
| 2008 | 8.1 | 13.1 | 1.5 | 12.1 | 14.4 | 14.6 | 2.1 | 14.2 |
| 2009 | 6.6 | 13.9 | 1.0 | 8.6 | 8.0 | 15.7 | 1.4 | 18.1 |
| 2010 | 7.1 | 15.0 | 1.2 | 13.0 | 7.2 | 12.9 | 1.5 | 17.0 |
| | | | 1.0 | 12.4 | | | 2.3 | 21.0 |
| 2011 | 5.6 5.5 | 11.6 13.3 | 1.0 | 9.2 | 10.7 5.7 | 21.7 15.5 | 2.3 1.5 | 17.6 |
| 2012 | | 13.3 | | | | 15.5 | | |
| 2013 | 3.6 | 13.3 | 0.8 | 11.5 | 6.0 | 10.6 | 1.6 | 21.6 |
| 2014 | 9.1 | 23.6 | 1.7 | 30.6 | 12.3 | 13.5 | 2.1 | 19.7 |
| 2015 | 7.0 | 12.7 | 1.3 | 11.8 | 12.4 | 11.7 | 3.6 | 14.7 |
| 2016 | 9.3 | 9.2 | 2.3 | 8.9 | 9.4 | 12.2 | 4.1 | 13.7 |
| 2017 | 7.3 | 10.8 | 2.1 | 10.3 | 6.4 | 14.5 | 2.4 | 17.4 |
| 2018 | 6.1 | 11.0 | 1.9 | 11.9 | 6.6 | 11.3 | 2.6 | 11.8 |
| 2019 | 3.8 | 16.5 | 0.9 | 12.9 | | | | |

Table 8b. Standardized stratified mean catch per tow in numbers and weight (kg) and coefficient of variation (CV) for American Massachusetts Division of Marine Fisheries inshore spring and autumn research vessel bottom trawl surveys, 1982 - 2019.

| | | | MADMF Spring | | | | MADMF Autur | nn_ |
|------|--------|------|--------------|------|--------|------|-------------|------|
| | No/Tow | CV | Wt/Tow | CV | No/Tow | CV | Wt/Tow | CV |
| | | | | | | | | |
| 1982 | 100.7 | 19.1 | 10.4 | 19.5 | 46.8 | 27.1 | 5.6 | 30.5 |
| 1983 | 51.0 | 28.3 | 8.1 | 26.1 | 79.3 | 25.1 | 4.5 | 23.2 |
| 1984 | 50.9 | 17.3 | 4.7 | 12.4 | 23.1 | 35.7 | 2.4 | 36.8 |
| 1985 | 67.9 | 24.5 | 5.0 | 26.7 | 71.7 | 22.0 | 3.9 | 17.2 |
| 1986 | 115.6 | 23.5 | 7.6 | 20.6 | 73.9 | 20.5 | 5.4 | 23.3 |
| 1987 | 81.2 | 29.7 | 3.9 | 22.3 | 71.0 | 33.4 | 2.7 | 36.0 |
| 1988 | 159.6 | 20.1 | 5.6 | 28.8 | 145.1 | 23.2 | 7.8 | 26.3 |
| 1989 | 142.6 | 22.6 | 8.6 | 26.3 | 170.7 | 19.4 | 10.8 | 18.3 |
| 1990 | 92.0 | 19.8 | 8.5 | 19.0 | 72.9 | 19.7 | 6.7 | 15.3 |
| 1991 | 69.8 | 15.8 | 7.2 | 16.3 | 131.9 | 21.6 | 13.7 | 20.3 |
| 1992 | 69.4 | 23.7 | 8.6 | 25.4 | 91.7 | 19.8 | 8.3 | 19.8 |
| 1993 | 56.7 | 22.3 | 5.0 | 32.2 | 117.8 | 13.9 | 8.0 | 15.2 |
| 1994 | 93.5 | 25.3 | 6.4 | 29.4 | 125.6 | 14.2 | 9.7 | 16.9 |
| 1995 | 83.7 | 13.3 | 8.2 | 12.6 | 66.9 | 16.6 | 6.8 | 16.9 |
| 1996 | 42.8 | 20.8 | 5.6 | 18.0 | 66.2 | 12.4 | 8.3 | 16.8 |
| 1997 | 42.3 | 23.7 | 5.5 | 21.8 | 43.2 | 14.2 | 5.6 | 20.1 |
| 1998 | 31.2 | 19.1 | 4.0 | 24.7 | 44.4 | 16.0 | 3.0 | 18.9 |
| 1999 | 37.7 | 34.8 | 4.6 | 37.4 | 64.0 | 19.3 | 6.1 | 21.9 |
| 2000 | 91.5 | 20.6 | 9.6 | 22.4 | 58.2 | 18.8 | 6.7 | 29.6 |
| 2001 | 43.6 | 29.0 | 6.3 | 24.3 | 66.4 | 8.0 | 7.9 | 10.5 |
| 2002 | 41.3 | 27.6 | 4.8 | 20.7 | 66.8 | 11.5 | 6.5 | 17.8 |
| 2003 | 60.7 | 21.3 | 6.6 | 22.5 | 59.4 | 23.6 | 5.4 | 26.2 |
| 2004 | 65.7 | 17.0 | 6.1 | 15.5 | 82.0 | 19.3 | 5.2 | 15.5 |
| 2005 | 56.6 | 19.2 | 4.8 | 16.6 | 95.4 | 14.7 | 7.2 | 16.6 |
| 2006 | 88.9 | 14.5 | 6.6 | 15.0 | 73.1 | 23.6 | 6.3 | 25.0 |
| 2007 | 84.9 | 28.9 | 8.2 | 30.3 | 55.4 | 13.4 | 6.3 | 12.9 |
| 2008 | 70.7 | 12.8 | 8.5 | 12.7 | 55.3 | 12.9 | 6.5 | 9.7 |
| 2009 | 88.8 | 26.6 | 9.0 | 27.6 | 51.3 | 15.6 | 5.1 | 15.8 |
| 2010 | 45.9 | 18.0 | 5.4 | 11.1 | 38.8 | 18.4 | 4.9 | 17.9 |
| 2011 | 38.5 | 35.3 | 5.0 | 27.7 | 60.9 | 18.3 | 6.0 | 22.2 |
| 2012 | 28.3 | 55.1 | 4.1 | 54.2 | 15.3 | 22.8 | 1.8 | 20.3 |
| 2013 | 26.8 | 37.5 | 3.0 | 43.2 | 16.6 | 27.8 | 2.0 | 29.9 |
| 2014 | 16.5 | 33.8 | 2.1 | 32.6 | 18.4 | 15.6 | 1.1 | 16.6 |
| 2015 | 38.4 | 13.1 | 4.4 | 7.9 | 31.8 | 8.7 | 3.3 | 9.1 |
| 2016 | 27.6 | 32.0 | 4.0 | 32.0 | 18.0 | 13.4 | 2.6 | 21.1 |
| 2017 | 18.1 | 17.6 | 3.1 | 17.8 | 15.7 | 14.8 | 2.2 | 14.9 |
| 2018 | 11.2 | 8.8 | 1.8 | 7.8 | 11.5 | 20.0 | 0.6 | 21.2 |
| 2019 | 9.4 | 15.0 | 1.1 | 42.7 | | | | |
| | | | | | | | | |

Table 9a. Standardized stratified mean number per tow by age of American plaice in the NEFSC spring research bottom trawl survey in the Gulf of Maine and Georges Bank area (offshore strata 13-30, 36-40).

| | | | | | | | 1 | Ages | | | | | | | | | |
|------|---|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----|--------|
| Year | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14+ | | no/tow |
| 1980 | 0 | 0.45 | 3.69 | 4.55 | 3.05 | 2.93 | 1.61 | 1.14 | 0.26 | 0.31 | 0.23 | 0.04 | 0.04 | 0.03 | 0.01 | | 18.34 |
| 1981 | 0 | 0.13 | 3.43 | 4.21 | 3.46 | 2.61 | 1.69 | 1.41 | 0.77 | 0.40 | 0.32 | 0.07 | 0.09 | 0.07 | 0.09 | | 18.75 |
| 1982 | 0 | 0.03 | 1.05 | 1.79 | 3.17 | 2.13 | 1.33 | 0.92 | 0.50 | 0.35 | 0.19 | 0.07 | 0.02 | 0.05 | 0.01 | | 11.61 |
| 1983 | 0 | 0.20 | 3.68 | 3.33 | 4.48 | 2.64 | 1.18 | 0.58 | 0.32 | 0.15 | 0.15 | 0.11 | 0.05 | 0.02 | 0.04 | | 16.93 |
| 1984 | 0 | 0.01 | 0.35 | 0.56 | 0.90 | 1.29 | 0.58 | 0.22 | 0.10 | 0.01 | 0.02 | 0.01 | 0.01 | 0.00 | 0.04 | | 4.10 |
| 1985 | 0 | 0.03 | 0.32 | 0.98 | 0.86 | 0.73 | 0.86 | 0.46 | 0.42 | 0.12 | 0.07 | 0.04 | 0.02 | 0.02 | 0.02 | | 4.95 |
| 1986 | 0 | 0.01 | 0.46 | 0.34 | 1.01 | 0.59 | 0.29 | 0.21 | 0.10 | 0.04 | 0.04 | 0 | 0 | 0 | 0 | | 3.09 |
| 1987 | 0 | 0.09 | 0.61 | 0.99 | 0.69 | 0.51 | 0.25 | 0.17 | 0.07 | 0.03 | 0.03 | 0.03 | 0.01 | 0 | 0 | | 3.48 |
| 1988 | 0 | 0.20 | 0.99 | 0.84 | 0.76 | 0.31 | 0.23 | 0.12 | 0.01 | 0.09 | 0.01 | 0.01 | 0 | 0 | 0 | | 3.57 |
| 1989 | 0 | 0.05 | 1.59 | 1.27 | 0.86 | 0.49 | 0.29 | 0.16 | 0.03 | 0.07 | 0.01 | 0.01 | 0 | 0 | 0 | | 4.83 |
| 1990 | 0 | 0.00 | 0.57 | 2.65 | 1.02 | 0.54 | 0.17 | 0.06 | 0.04 | 0.05 | 0 | 0 | 0 | 0 | 0 | | 5.10 |
| 1991 | 0 | 0.03 | 0.71 | 1.63 | 2.33 | 0.92 | 0.15 | 0.07 | 0.04 | 0.02 | 0 | 0.02 | 0 | 0 | 0.01 | | 5.93 |
| 1992 | 0 | 0.06 | 0.34 | 1.15 | 0.88 | 1.07 | 0.43 | 0.11 | 0.04 | 0.02 | 0.01 | 0 | 0.01 | 0 | 0.00 | | 4.12 |
| 1993 | 0 | 0.33 | 0.84 | 1.16 | 1.58 | 0.61 | 0.45 | 0.17 | 0.08 | 0.02 | 0.01 | 0.02 | 0.03 | 0 | 0.00 | | 5.30 |
| 1994 | 0 | 0.03 | 1.43 | 1.14 | 1.12 | 0.75 | 0.23 | 0.10 | 0.03 | 0.01 | 0 | 0.01 | 0.01 | 0.01 | 0.01 | | 4.88 |
| 1995 | 0 | 0.03 | 1.97 | 3.21 | 2.30 | 1.11 | 0.44 | 0.22 | 0.03 | 0.04 | 0.03 | 0.01 | 0.02 | 0.01 | 0.01 | | 9.43 |
| 1996 | 0 | 0.02 | 0.47 | 1.94 | 3.30 | 1.31 | 0.53 | 0.20 | 0.05 | 0.02 | 0 | 0 | 0.00 | 0 | 0 | | 7.84 |
| 1997 | 0 | 0.01 | 0.85 | 1.66 | 2.52 | 2.05 | 0.39 | 0.09 | 0.01 | 0 | 0.01 | 0 | 0.02 | 0 | 0 | | 7.61 |
| 1998 | 0 | 0.06 | 0.19 | 1.02 | 1.12 | 1.22 | 0.68 | 0.16 | 0.06 | 0.01 | 0.01 | 0 | 0.01 | 0 | 0 | | 4.54 |
| 1999 | 0 | 0.08 | 0.41 | 0.52 | 1.13 | 0.79 | 0.64 | 0.41 | 0.17 | 0.02 | 0.02 | 0 | 0.00 | 0 | 0 | | 4.19 |
| 2000 | 0 | 0.03 | 1.91 | 2.48 | 2.22 | 1.60 | 0.86 | 0.60 | 0.15 | 0.07 | 0.02 | 0 | 0.01 | 0 | 0 | | 9.95 |
| 2001 | 0 | 0.00 | 0.71 | 3.67 | 3.37 | 1.45 | 0.75 | 0.37 | 0.17 | 0.09 | 0.05 | 0.02 | 0 | 0 | 0 | | 10.65 |
| 2002 | 0 | 0.10 | 0.35 | 0.98 | 2.35 | 1.66 | 0.51 | 0.33 | 0.20 | 0.14 | 0.07 | 0.01 | 0 | 0 | 0 | | 6.70 |
| 2003 | 0 | 0.04 | 0.76 | 0.27 | 0.70 | 1.24 | 0.64 | 0.22 | 0.10 | 0.09 | 0.04 | 0.03 | 0.01 | 0.02 | 0 | | 4.17 |
| 2004 | 0 | 0.36 | 0.87 | 2.03 | 1.79 | 1.33 | 1.14 | 0.34 | 0.10 | 0.18 | 0 | 0.01 | 0.02 | 0 | 0 | | 8.16 |
| 2005 | 0 | 0.20 | 0.78 | 1.04 | 1.23 | 0.91 | 0.50 | 0.24 | 0.12 | 0 | 0.02 | 0 | 0 | 0 | 0 | | 5.02 |
| 2006 | 0 | 0.76 | 1.62 | 1.71 | 1.70 | 0.84 | 0.32 | 0.30 | 0.11 | 0.02 | 0.02 | 0.01 | 0 | 0.01 | 0 | | 7.42 |
| 2007 | 0 | 0.25 | 3.74 | 2.78 | 1.61 | 1.02 | 0.33 | 0.14 | 0.07 | 0.01 | 0.02 | 0.01 | 0 | 0 | 0 | | 9.97 |
| 2008 | 0 | 0.11 | 0.58 | 2.04 | 2.85 | 1.41 | 0.65 | 0.22 | 0.09 | 0.06 | 0.04 | 0.02 | 0.00 | 0.00 | 0.01 | | 8.06 |
| 2009 | 0 | 0.35 | 1.81 | 0.52 | 1.65 | 1.37 | 0.69 | 0.34 | 0.12 | 0.03 | 0.01 | 0.02 | 0.00 | 0.00 | 0.00 | | 6.90 |
| 2010 | 0 | 0.13 | 1.49 | 1.75 | 0.93 | 1.34 | 0.90 | 0.34 | 0.13 | 0.09 | 0.03 | 0.00 | 0.01 | 0.00 | 0.00 | | 7.14 |
| 2011 | 0 | 0.28 | 0.63 | 1.12 | 0.80 | 0.88 | 0.63 | 0.59 | 0.35 | 0.19 | 0.09 | 0.02 | 0.00 | 0.00 | 0.00 | _ | 5.59 |
| 2012 | 0 | 0.32 | 0.66 | 1.02 | 0.85 | 0.91 | 0.51 | 0.51 | 0.41 | 0.18 | 0.04 | 0.04 | 0.01 | 0.01 | 0.01 | · · | 5.48 |
| 2013 | 0 | 0.20 | 0.40 | 0.89 | 0.53 | 0.31 | 0.62 | 0.18 | 0.24 | 0.15 | 0.08 | 0.03 | 0.02 | 0.00 | 0.00 | | 3.63 |
| 2014 | 0 | 0.59 | 1.57 | 1.67 | 2.07 | 1.13 | 0.49 | 0.73 | 0.30 | 0.28 | 0.25 | 0.11 | 0.09 | 0.00 | 0.00 | | 9.29 |
| 2015 | 0 | 0.04 | 2.16 | 2.06 | 1.17 | 0.65 | 0.28 | 0.16 | 0.25 | 0.07 | 0.06 | 0.04 | 0.02 | 0.01 | 0.00 | · · | 6.99 |
| 2016 | 0 | 0.39 | 0.56 | 4.31 | 1.93 | 0.91 | 0.39 | 0.15 | 0.23 | 0.23 | 0.11 | 0.05 | 0.04 | 0.03 | 0.02 | | 9.33 |
| 2017 | 0 | 0.06 | 0.43 | 0.62 | 3.55 | 1.28 | 0.57 | 0.35 | 0.10 | 0.07 | 0.12 | 0.05 | 0.01 | 0.02 | 0.02 | · · | 7.26 |
| 2018 | 0 | 0.42 | 0.17 | 0.69 | 0.66 | 1.93 | 0.88 | 0.44 | 0.30 | 0.19 | 0.11 | 0.15 | 0.07 | 0.04 | 0.07 | • | 6.13 |
| 2019 | 0 | 0.15 | 0.93 | 0.28 | 0.61 | 0.34 | 0.76 | 0.32 | 0.17 | 0.07 | 0.05 | 0.07 | 0.04 | 0.01 | 0.03 | • | 3.83 |

Table 9b. Standardized stratified mean number per tow by age of American plaice in the NEFSC autumn research bottom trawl survey in the Gulf of Maine and Georges Bank area (offshore strata 13-30, 36-40).

| | | | | | | | | Ages | | | | | | | | |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|--------|
| Year | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | no/tow |
| 1980 | 0.00 | 1.58 | 2.23 | 2.72 | 2.84 | 1.53 | 1.02 | 0.93 | 0.57 | 0.30 | 0.19 | 0.11 | 0.04 | 0.09 | 0.09 | 14.24 |
| 1981 | 0.00 | 0.44 | 2.64 | 2.16 | 2.48 | 2.16 | 1.44 | 0.59 | 0.53 | 0.06 | 0.16 | 0.15 | 0.02 | 0.02 | 0.16 | 13.04 |
| 1982 | 0.00 | 0.20 | 0.91 | 1.65 | 1.27 | 0.57 | 0.48 | 0.30 | 0.17 | 0.19 | 0.08 | 0.03 | 0.00 | 0.00 | 0.02 | 5.87 |
| 1983 | 0.06 | 0.50 | 1.01 | 2.02 | 2.92 | 1.36 | 0.68 | 0.34 | 0.17 | 0.10 | 0.03 | 0.05 | 0.06 | 0.01 | 0.03 | 9.34 |
| 1984 | 0.02 | 0.22 | 2.24 | 1.56 | 1.21 | 1.07 | 0.51 | 0.12 | 0.10 | 0.00 | 0.03 | 0.01 | 0.02 | 0.00 | 0.01 | 7.12 |
| 1985 | 0.02 | 0.91 | 0.83 | 2.64 | 1.05 | 0.79 | 0.41 | 0.19 | 0.05 | 0.03 | 0.02 | 0.00 | 0.00 | 0.01 | 0.00 | 6.95 |
| 1986 | 0.10 | 0.51 | 1.46 | 0.87 | 1.43 | 0.47 | 0.42 | 0.16 | 0.11 | 0.04 | 0.01 | 0.02 | 0.01 | 0.00 | 0.00 | 5.61 |
| 1987 | 0.01 | 0.53 | 1.27 | 0.99 | 0.43 | 0.69 | 0.25 | 0.10 | 0.04 | 0.04 | 0.01 | 0.02 | 0.00 | 0.00 | 0.00 | 4.38 |
| 1988 | 0.00 | 2.84 | 2.97 | 2.39 | 0.78 | 0.47 | 0.10 | 0.07 | 0.00 | 0.03 | 0.00 | 0.02 | 0.00 | 0.00 | 0.00 | 9.67 |
| 1989 | 0.05 | 0.48 | 4.45 | 2.86 | 0.98 | 0.19 | 0.10 | 0.02 | 0.02 | 0.02 | 0.02 | 0.00 | 0.01 | 0.02 | 0.00 | 9.22 |
| 1990 | 0.01 | 1.71 | 2.26 | 7.49 | 2.89 | 0.59 | 0.25 | 0.12 | 0.07 | 0.02 | 0.02 | 0.01 | 0.01 | 0.01 | 0.00 | 15.46 |
| 1991 | 0.01 | 0.47 | 2.47 | 2.02 | 1.59 | 0.73 | 0.29 | 0.04 | 0.06 | 0.00 | 0.01 | 0.00 | 0.00 | 0.00 | 0.01 | 7.70 |
| 1992 | 0.02 | 0.65 | 1.23 | 1.85 | 1.28 | 0.78 | 0.30 | 0.07 | 0.05 | 0.03 | 0.02 | 0.00 | 0.02 | 0.00 | 0.00 | 6.30 |
| 1993 | 0.01 | 1.70 | 2.34 | 3.47 | 2.28 | 1.05 | 0.80 | 0.11 | 0.04 | 0.04 | 0.04 | 0.00 | 0.00 | 0.00 | 0.00 | 11.88 |
| 1994 | 0.04 | 3.83 | 7.53 | 2.81 | 1.71 | 1.30 | 0.40 | 0.25 | 0.13 | 0.01 | 0.03 | 0.02 | 0.00 | 0.00 | 0.00 | 18.06 |
| 1995 | 0.01 | 0.50 | 3.80 | 3.82 | 2.50 | 0.90 | 0.22 | 0.04 | 0.03 | 0.00 | 0.00 | 0.00 | 0.02 | 0.00 | 0.00 | 11.84 |
| 1996 | 0.01 | 0.54 | 0.81 | 2.00 | 2.74 | 0.93 | 0.39 | 0.07 | 0.04 | 0.03 | 0.00 | 0.00 | 0.02 | 0.00 | 0.02 | 7.60 |
| 1997 | 0.01 | 0.36 | 1.06 | 1.55 | 1.86 | 1.04 | 0.32 | 0.04 | 0.01 | 0.01 | 0.00 | 0.00 | 0.00 | 0.00 | 0.02 | 6.28 |
| 1998 | 0.01 | 1.73 | 0.60 | 1.88 | 2.01 | 1.78 | 1.08 | 0.12 | 0.05 | 0.01 | 0.01 | 0.00 | 0.01 | 0.00 | 0.00 | 9.29 |
| 1999 | 0.02 | 2.00 | 2.20 | 2.05 | 2.13 | 1.60 | 0.81 | 0.20 | 0.03 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 11.04 |
| 2000 | 0.03 | 0.47 | 2.90 | 3.91 | 2.28 | 1.35 | 0.75 | 0.33 | 0.14 | 0.03 | 0.03 | 0.00 | 0.00 | 0.00 | 0.00 | 12.22 |
| 2001 | 0.02 | 0.40 | 1.22 | 3.31 | 2.64 | 1.46 | 0.53 | 0.41 | 0.20 | 0.17 | 0.02 | 0.00 | 0.01 | 0.00 | 0.00 | 10.39 |
| 2002 | 0.05 | 1.00 | 0.77 | 1.30 | 3.36 | 1.73 | 0.53 | 0.39 | 0.29 | 0.17 | 0.06 | 0.02 | 0.02 | 0.00 | 0.00 | 9.69 |
| 2003 | 0.03 | 0.70 | 2.26 | 1.26 | 1.76 | 1.74 | 0.88 | 0.35 | 0.13 | 0.06 | 0.08 | 0.01 | 0.00 | 0.03 | 0.00 | 9.29 |
| 2004 | 0.01 | 0.70 | 0.96 | 1.19 | 0.98 | 0.73 | 0.50 | 0.19 | 0.09 | 0.03 | 0.00 | 0.02 | 0.00 | 0.00 | 0.00 | 5.42 |
| 2005 | 0.00 | 0.69 | 1.65 | 0.72 | 1.17 | 0.75 | 0.43 | 0.15 | 0.10 | 0.08 | 0.04 | 0.00 | 0.01 | 0.00 | 0.00 | 5.77 |
| 2006 | 0.03 | 2.04 | 2.54 | 2.61 | 2.57 | 1.41 | 0.57 | 0.44 | 0.16 | 0.03 | 0.04 | 0.00 | 0.00 | 0.01 | 0.00 | 12.46 |
| 2007 | 0.02 | 1.08 | 3.45 | 2.83 | 2.19 | 0.85 | 0.42 | 0.15 | 0.02 | 0.02 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 11.02 |
| 2008 | 0.03 | 2.02 | 1.74 | 4.78 | 2.92 | 1.46 | 0.88 | 0.43 | 0.05 | 0.07 | 0.02 | 0.04 | 0.00 | 0.00 | 0.00 | 14.44 |
| 2009 | 0.03 | 1.64 | 2.16 | 1.21 | 1.42 | 1.15 | 0.38 | 0.10 | 0.04 | 0.03 | 0.03 | 0.00 | 0.00 | 0.00 | 0.00 | 8.18 |
| 2010 | 0.07 | 1.04 | 1.65 | 1.12 | 0.87 | 1.22 | 0.72 | 0.35 | 0.09 | 0.05 | 0.05 | 0.00 | 0.03 | 0.00 | 0.00 | 7.25 |
| 2011 | 0.01 | 2.56 | 1.36 | 1.38 | 1.95 | 0.83 | 1.09 | 0.86 | 0.42 | 0.15 | 0.02 | 0.01 | 0.08 | 0.00 | 0.00 | 10.74 |
| 2012 | 0.03 | 0.84 | 1.19 | 0.91 | 0.87 | 0.65 | 0.39 | 0.40 | 0.24 | 0.12 | 0.03 | 0.01 | 0.02 | 0.00 | 0.00 | 5.71 |
| 2013 | 0.32 | 1.14 | 1.44 | 1.08 | 0.59 | 0.34 | 0.58 | 0.18 | 0.11 | 0.19 | 0.03 | 0.00 | 0.00 | 0.00 | 0.00 | 6.00 |
| 2014 | 0.01 | 5.46 | 2.48 | 2.00 | 0.95 | 0.30 | 0.22 | 0.50 | 0.10 | 0.15 | 0.09 | 0.04 | 0.02 | 0.00 | 0.01 | 12.31 |
| 2015 | 0.06 | 0.72 | 5.38 | 2.34 | 1.58 | 1.07 | 0.36 | 0.19 | 0.29 | 0.09 | 0.08 | 0.11 | 0.05 | 0.04 | 0.00 | 12.35 |
| 2016 | 0.00 | 0.68 | 0.51 | 4.38 | 1.75 | 0.84 | 0.57 | 0.16 | 0.11 | 0.20 | 0.10 | 0.04 | 0.04 | 0.03 | 0.03 | 9.44 |
| 2017 | 0.03 | 0.16 | 1.37 | 0.67 | 2.52 | 0.81 | 0.28 | 0.14 | 0.11 | 0.03 | 0.10 | 0.03 | 0.03 | 0.03 | 0.04 | 6.36 |
| 2018 | 0.01 | 0.94 | 0.17 | 1.47 | 0.37 | 2.29 | 0.63 | 0.29 | 0.22 | 0.05 | 0.05 | 0.04 | 0.05 | 0.01 | 0.00 | 6.61 |

Table 10a. Stratified mean number per tow by age of American plaice in Massachusetts DMF spring bottom trawl surveys in Massachusetts Bay and Cape Cod Bay (Regions 4+5).

| | | | | | | | Age | | | | | | | | | sum |
|--------|------|-------|-------|-------|---------|-------|------|------|------|------|------|------|------|------|------|--------|
| Year | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | no/tow |
| Spring | | | | | | | | | | | | | | | | |
| 1982 | 0.00 | 7.80 | 49.56 | 19.87 | 15.53 | 3.56 | 2.93 | 0.97 | 0.26 | 0.17 | 0.04 | 0.05 | 0.00 | 0.01 | 0.00 | 100.7 |
| 1983 | 0.00 | 2.18 | 8.95 | 14.67 | 14.75 | 7.24 | 1.95 | 0.64 | 0.23 | 0.23 | 0.06 | 0.13 | 0.01 | 0.00 | 0.00 | 51.0 |
| 1984 | 0.00 | 2.37 | 15.46 | 18.09 | 9.54 | 3.68 | 1.28 | 0.20 | 0.08 | 0.02 | 0.04 | 0.00 | 0.00 | 0.00 | 0.10 | 50.9 |
| 1985 | 0.00 | 28.26 | 7.75 | 19.18 | 6.50 | 3.01 | 1.97 | 0.59 | 0.48 | 0.09 | 0.01 | 0.03 | 0.01 | 0.00 | 0.00 | 67.9 |
| 1986 | 0.00 | 18.75 | 65.62 | 17.83 | 9.61 | 2.54 | 0.69 | 0.12 | 0.16 | 0.13 | 0.00 | 0.00 | 0.00 | 0.18 | 0.00 | 115.6 |
| 1987 | 0.00 | 41.65 | 15.81 | 15.97 | 4.67 | 2.19 | 0.80 | 0.06 | 0.03 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 81.2 |
| 1988 | 0.00 | 77.47 | 58.21 | 15.19 | 6.96 | 1.19 | 0.47 | 0.11 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 159.6 |
| 1989 | 0.00 | 12.43 | 84.97 | 33.02 | 8.22 | 2.49 | 1.13 | 0.21 | 0.08 | 0.05 | 0.00 | 0.02 | 0.00 | 0.00 | 0.00 | 142.6 |
| 1990 | 0.00 | 10.68 | 20.98 | 43.35 | 13.36 | 2.82 | 0.42 | 0.05 | 0.13 | 0.16 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 92.0 |
| 1991 | 0.00 | 3.06 | 18.06 | 29.81 | 15.78 | 2.91 | 0.11 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 69.8 |
| 1992 | 0.00 | 8.33 | 10.20 | 31.31 | 12.28 | 6.09 | 0.88 | 0.30 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 69.4 |
| 1993 | 0.00 | 13.50 | 18.09 | 13.46 | 7.51 | 2.63 | 0.65 | 0.05 | 0.02 | 0.00 | 0.00 | 0.00 | 0.01 | 0.00 | 0.00 | 55.9 |
| 1994 | 0.00 | 12.71 | 51.50 | 18.48 | 5.97 | 3.49 | 0.96 | 0.36 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 93.5 |
| 1995 | 0.00 | 0.47 | 30.65 | 41.24 | 8.04 | 2.51 | 0.54 | 0.12 | 0.04 | 0.05 | 0.03 | 0.00 | 0.00 | 0.00 | 0.00 | 83.7 |
| 1996 | 0.00 | 2.54 | 2.90 | 10.06 | 21.38 | 4.55 | 0.83 | 0.57 | 0.01 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 42.8 |
| 1997 | 0.00 | 1.33 | 6.24 | 10.36 | 12.80 | 9.45 | 1.93 | 0.15 | 0.02 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 42.3 |
| 1998 | 0.00 | 3.20 | 3.56 | 8.35 | 5.62 | 6.98 | 3.16 | 0.36 | 0.00 | 0.01 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 31.2 |
| 1999 | 0.00 | 1.91 | 7.94 | 8.29 | 10.05 | 5.06 | 2.83 | 1.30 | 0.29 | 0.01 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 37.7 |
| 2000 | 0.00 | 3.23 | 37.37 | 23.43 | 13.04 | 8.66 | 3.19 | 2.39 | 0.15 | 0.03 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 91.5 |
| 2001 | 0.00 | 0.08 | 4.34 | 18.96 | 13.1228 | 3.78 | 1.79 | 0.90 | 0.35 | 0.12 | 0.11 | 0.03 | 0.00 | 0.00 | 0.00 | 43.6 |
| 2002 | 0.00 | 4.78 | 2.82 | 9.36 | 16.27 | 5.38 | 1.38 | 0.69 | 0.35 | 0.19 | 0.07 | 0.00 | 0.00 | 0.00 | 0.00 | 41.3 |
| 2003 | 0.00 | 2.90 | 24.04 | 6.88 | 10.66 | 11.10 | 2.98 | 0.71 | 1.01 | 0.20 | 0.01 | 0.17 | 0.00 | 0.01 | 0.00 | 60.7 |
| 2004 | 0.00 | 10.55 | 7.44 | 24.46 | 12.59 | 5.77 | 3.61 | 0.82 | 0.17 | 0.18 | 0.04 | 0.02 | 0.00 | 0.00 | 0.00 | 65.7 |
| 2005 | 0.00 | 5.76 | 15.26 | 19.37 | 7.90 | 4.89 | 2.02 | 0.97 | 0.39 | 0.00 | 0.00 | 0.02 | 0.00 | 0.00 | 0.00 | 56.6 |
| 2006 | 0.00 | 4.50 | 39.67 | 25.88 | 11.66 | 4.23 | 1.78 | 1.01 | 0.19 | 0.00 | 0.02 | 0.00 | 0.00 | 0.00 | 0.00 | 88.9 |
| 2007 | 0.00 | 1.90 | 33.10 | 29.04 | 12.62 | 6.18 | 1.22 | 0.56 | 0.13 | 0.01 | 0.13 | 0.02 | 0.00 | 0.00 | 0.00 | 84.9 |
| 2008 | 0.00 | 2.62 | 7.86 | 25.99 | 21.85 | 8.29 | 2.78 | 0.91 | 0.22 | 0.09 | 0.01 | 0.02 | 0.01 | 0.00 | 0.00 | 70.7 |
| 2009 | 0.00 | 3.88 | 26.23 | 16.12 | 22.45 | 13.37 | 4.03 | 1.67 | 0.78 | 0.11 | 0.01 | 0.11 | 0.00 | 0.00 | 0.00 | 88.8 |
| 2010 | 0.00 | 0.26 | 9.86 | 16.02 | 5.51 | 8.34 | 4.00 | 1.25 | 0.40 | 0.18 | 0.05 | 0.00 | 0.00 | 0.00 | 0.00 | 45.9 |
| 2011 | 0.00 | 1.13 | 3.91 | 8.81 | 8.95 | 5.30 | 3.97 | 4.11 | 1.44 | 0.50 | 0.30 | 0.11 | 0.00 | 0.00 | 0.01 | 38.5 |
| 2012 | 0.00 | 0.21 | 1.64 | 5.21 | 7.28 | 6.37 | 2.91 | 2.30 | 1.51 | 0.51 | 0.18 | 0.12 | 0.01 | 0.02 | 0.00 | 28.3 |
| 2013 | 0.00 | 0.11 | 2.88 | 12.56 | 4.15 | 2.11 | 3.04 | 0.66 | 0.62 | 0.49 | 0.11 | 0.05 | 0.03 | 0.00 | 0.01 | 26.8 |
| 2014 | 0.00 | 0.36 | 2.23 | 4.21 | 4.74 | 2.10 | 0.65 | 1.24 | 0.29 | 0.28 | 0.27 | 0.11 | 0.05 | 0.01 | 0.00 | 16.5 |
| 2015 | 0.00 | 1.23 | 12.66 | 14.57 | 5.41 | 2.32 | 0.89 | 0.39 | 0.43 | 0.28 | 0.11 | 0.03 | 0.06 | 0.00 | 0.00 | 38.4 |
| 2016 | 0.00 | 0.75 | 5.08 | 13.65 | 4.52 | 1.71 | 0.75 | 0.19 | 0.27 | 0.29 | 0.14 | 0.08 | 0.10 | 0.01 | 0.04 | 27.6 |
| 2017 | 0.00 | 0.03 | 1.34 | 3.11 | 9.35 | 2.54 | 0.75 | 0.56 | 0.16 | 0.05 | 0.10 | 0.04 | 0.01 | 0.02 | 0.01 | 18.1 |
| 2018 | 0.00 | 1.08 | 0.52 | 1.92 | 1.74 | 3.08 | 1.24 | 0.48 | 0.35 | 0.31 | 0.11 | 0.17 | 0.10 | 0.04 | 0.07 | 11.2 |
| 2019 | 0.00 | 0.45 | 3.86 | 0.97 | 1.77 | 0.70 | 1.07 | 0.34 | 0.10 | 0.03 | 0.06 | 0.02 | 0.02 | 0.01 | 0.02 | 9.4 |
| | | | | | | | | | | | | | | | | |

Table 10b. Stratified mean number per tow by age of American plaice in Massachusetts DMF autumn bottom trawl surveys in Massachusetts Bay and Cape Cod Bay (Regions 4+5).

| | | | | | | A | ge | | | | | | | | | |
|--------|------|-------|-------|-------|-------|------|------|------|------|------|------|------|------|------|------|---------|
| Year | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | no/tow |
| Autumn | | | | | | | | | | | | | | | | |
| 1982 | 0.80 | 11.45 | 16.08 | 10.55 | 5.93 | 1.11 | 0.63 | 0.11 | 0.06 | 0.04 | 0.00 | 0.02 | 0.00 | 0.00 | 0.01 | 46.8 |
| 1983 | 1.17 | 44.05 | 16.04 | 8.23 | 7.61 | 1.39 | 0.40 | 0.20 | 0.08 | 0.09 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 79.3 |
| 1984 | 0.53 | 4.06 | 10.53 | 4.22 | 2.18 | 1.13 | 0.31 | 0.07 | 0.02 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 23.1 |
| 1985 | 0.00 | 49.32 | 8.07 | 12.97 | 1.13 | 0.11 | 0.04 | 0.03 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 71.7 |
| 1986 | 0.12 | 30.47 | 26.51 | 10.87 | 5.43 | 0.32 | 0.14 | 0.02 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 73.9 |
| 1987 | 0.30 | 47.34 | 18.55 | 3.73 | 0.64 | 0.30 | 0.10 | 0.02 | 0.05 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 71.0 |
| 1988 | 0.00 | 91.90 | 36.55 | 14.69 | 1.31 | 0.60 | 0.09 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 145.1 |
| 1989 | 0.38 | 44.08 | 92.33 | 31.15 | 2.53 | 0.18 | 0.02 | 0.02 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 170.7 |
| 1990 | 0.10 | 34.39 | 14.23 | 19.25 | 4.64 | 0.22 | 0.04 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 72.9 |
| 1991 | 0.53 | 21.47 | 65.74 | 33.37 | 9.65 | 0.98 | 0.13 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 131.9 |
| 1992 | 1.00 | 41.12 | 12.49 | 26.18 | 9.57 | 1.21 | 0.00 | 0.00 | 0.11 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 91.7 |
| 1993 | 0.09 | 67.79 | 28.67 | 13.69 | 5.35 | 1.49 | 0.69 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 117.8 |
| 1994 | 0.00 | 38.19 | 72.11 | 10.37 | 2.94 | 1.62 | 0.25 | 0.15 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 125.6 |
| 1995 | 0.15 | 8.38 | 34.08 | 19.59 | 3.82 | 0.81 | 0.05 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 66.9 |
| 1996 | 0.18 | 13.53 | 15.85 | 22.19 | 12.61 | 1.44 | 0.31 | 0.00 | 0.09 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 66.2 |
| 1997 | 0.25 | 6.29 | 15.44 | 11.79 | 7.97 | 1.31 | 0.19 | 0.01 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 43.2 |
| 1998 | 0.15 | 25.11 | 3.63 | 8.05 | 4.37 | 2.57 | 0.50 | 0.02 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 44.4 |
| 1999 | 0.05 | 19.52 | 20.83 | 13.75 | 7.15 | 1.91 | 0.79 | 0.04 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 64.0 |
| 2000 | 0.01 | 6.42 | 23.77 | 17.91 | 5.73 | 2.86 | 1.06 | 0.36 | 0.03 | 0.01 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 58.2 |
| 2001 | 0.00 | 3.70 | 16.51 | 33.50 | 9.19 | 2.73 | 0.25 | 0.32 | 0.14 | 0.02 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 66.4 |
| 2002 | 0.22 | 26.28 | 7.74 | 11.68 | 15.28 | 3.87 | 0.81 | 0.45 | 0.30 | 0.11 | 0.02 | 0.00 | 0.05 | 0.00 | 0.00 | 66.8 |
| 2003 | 0.00 | 13.47 | 22.46 | 11.41 | 6.84 | 4.02 | 0.43 | 0.60 | 0.08 | 0.05 | 0.01 | 0.00 | 0.00 | 0.00 | 0.00 | 59.4 |
| 2004 | 0.05 | 41.59 | 19.26 | 9.68 | 6.78 | 3.07 | 1.15 | 0.20 | 0.13 | 0.00 | 0.00 | 0.04 | 0.00 | 0.00 | 0.00 | 82.0 |
| 2005 | 0.00 | 28.41 | 37.84 | 12.42 | 10.56 | 4.16 | 1.49 | 0.28 | 0.20 | 0.00 | 0.00 | 0.03 | 0.00 | 0.00 | 0.00 | 95.4 |
| 2006 | 0.00 | 10.55 | 27.78 | 17.53 | 10.21 | 4.20 | 1.45 | 1.09 | 0.14 | 0.04 | 0.08 | 0.00 | 0.00 | 0.00 | 0.00 | 73.1 |
| 2007 | 0.23 | 6.11 | 18.87 | 15.47 | 9.85 | 2.70 | 1.59 | 0.43 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 55.4 |
| 2008 | 0.13 | 11.66 | 6.47 | 16.96 | 11.40 | 4.63 | 2.73 | 1.04 | 0.08 | 0.14 | 0.01 | 0.06 | 0.00 | 0.00 | 0.00 | 55.3 |
| 2009 | 0.27 | 8.76 | 14.94 | 9.34 | 9.64 | 6.70 | 1.11 | 0.29 | 0.17 | 0.07 | 0.07 | 0.00 | 0.00 | 0.00 | 0.00 | 51.3 |
| 2010 | 0.88 | 4.08 | 8.72 | 7.98 | 4.74 | 7.04 | 3.30 | 1.42 | 0.18 | 0.15 | 0.20 | 0.00 | 0.07 | 0.00 | 0.00 | 38.8 |
| 2011 | 0.03 | 15.39 | 9.79 | 10.07 | 12.78 | 2.98 | 3.94 | 3.25 | 1.56 | 0.66 | 0.13 | 0.11 | 0.20 | 0.00 | 0.00 | 60.9 |
| 2012 | 0.00 | 1.28 | 6.15 | 3.02 | 2.28 | 1.32 | 0.57 | 0.39 | 0.20 | 0.07 | 0.02 | 0.00 | 0.00 | 0.00 | 0.00 | 15.3 |
| 2013 | 0.06 | 2.44 | 6.51 | 4.00 | 1.22 | 0.55 | 1.28 | 0.32 | 0.01 | 0.16 | 0.03 | 0.00 | 0.00 | 0.00 | 0.00 | 16.6 |
| 2014 | 0.00 | 12.53 | 3.73 | 1.21 | 0.45 | 0.09 | 0.08 | 0.18 | 0.02 | 0.06 | 0.02 | 0.01 | 0.00 | 0.00 | 0.00 | 18.4 |
| 2015 | 0.01 | 5.85 | 18.29 | 4.26 | 1.76 | 0.95 | 0.29 | 0.11 | 0.18 | 0.03 | 0.03 | 0.03 | 0.00 | 0.01 | 0.00 | _ 31.8 |
| 2016 | 0.00 | 3.11 | 3.14 | 7.96 | 1.85 | 0.72 | 0.51 | 0.14 | 0.07 | 0.20 | 0.11 | 0.07 | 0.00 | 0.05 | 0.00 | _ 17.93 |
| 2017 | 0.00 | 0.14 | 6.11 | 2.49 | 5.44 | 0.79 | 0.30 | 0.15 | 0.25 | 0.00 | 0.03 | 0.01 | 0.00 | 0.01 | 0.00 | 15.71 |
| 2018 | 0.00 | 9.30 | 0.78 | 0.65 | 0.10 | 0.46 | 0.10 | 0.04 | 0.05 | 0.00 | 0.02 | 0.00 | 0.00 | 0.00 | 0.00 | 11.51 |
| | | | | | | | | | | | | | | | | |

Table 11. Estimates of beginning year stock size (thousands of fish), instantaneous fishing mortality (F), spawning stock biomass (mt), and percent mature of Gulf of Maine-Georges Bank American plaice, estimated from virtual population analysis (VPA), calibrated using the commercial catch at age ADAPT formulation.

| Stock N | umbers (| Jan 1) i | n thous | ands | | | | | | | | | | | | | | | | |
|--------------------|----------|--------------------|---------|--------------------|-------|-------|-------|-------|--------|--------|--------|--------|-------|--------|----------------|--------|----------------|--------------------|--------|--------|
| AGE | 1980 | 1981 | 1982 | 1983 | 1984 | 1985 | 1986 | 1987 | 1988 | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 | 1998 | 1999 |
| 1 | 50267 | 25957 | 20930 | 24792 | 15676 | 19315 | 24454 | 42975 | 55237 | 21969 | 23058 | 23548 | 26301 | 41068 | 39338 | 26036 | 23589 | 20461 | 15300 | 16130 |
| 2 | 39482 | 41150 | 21247 | 17128 | 20285 | 12832 | 15756 | 19968 | 35151 | 44941 | 17973 | 18876 | 19278 | 21525 | 33605 | 32154 | 21275 | 19302 | 16739 | 12493 |
| 3 | 32633 | 32236 | 32804 | 16851 | 13425 | 16274 | 10363 | 12323 | 15816 | 28070 | 34678 | 13745 | 15238 | 15557 | 17371 | 26715 | 24012 | 16253 | 15227 | 13626 |
| 4 | 24061 | 25750 | 24415 | 23839 | 12464 | 10098 | 12226 | 7819 | 8432 | 11291 | 20535 | 23958 | 10342 | 11634 | 12234 | 13853 | 20167 | 18264 | 12956 | 12176 |
| 5 | 19253 | 17291 | 16534 | 15873 | 14865 | 8025 | 7063 | 7954 | 5106 | 5255 | 6840 | 13194 | 14104 | 6797 | 7537 | 8415 | 8873 | 12807 | 12614 | 9841 |
| 6 | 13956 | 12220 | 9368 | 9492 | 8586 | 6775 | 4413 | 4255 | 4463 | 2748 | 2876 | 3666 | 6355 | 6053 | 3251 | 3541 | 3783 | 4725 | 6945 | 7886 |
| 7 | 9947 | 7895 | 6731 | 4447 | 4274 | 4124 | 2979 | 2289 | 2284 | 2359 | 1475 | 1691 | 1859 | 2805 | 2583 | 1455 | 1196 | 1712 | 2274 | 3467 |
| 8 | 4677 | 4891 | 4309 | 2569 | 1619 | 1770 | 1393 | 1271 | 1073 | 1374 | 1163 | 863 | 1089 | 752 | 1060 | 1079 | 601 | 460 | 829 | 909 |
| 9 | 3006 | 2765 | 2585 | 1709 | 969 | 806 | 489 | 576 | 555 | 636 | 631 | 580 | 556 | 720 | 378 | 336 | 354 | 274 | 213 | 393 |
| 10 | 2776 | 1441 | 1683 | 996 | 772 | 548 | 270 | 174 | 304 | 296 | 344 | 343 | 293 | 337 | 333 | 101 | 88 | 176 | 148 | 121 |
| 11+ | 4509 | 2035 | 1639 | 2019 | 1933 | 373 | 257 | 169 | 191 | 337 | 577 | 368 | 233 | 279 | 646 | 95 | 164 | 308 | 403 | 226 |
| | r r | | | | | | | | · | · | • | | | | | · | · | · | | |
| Total | 204569 | 173631 | 142246 | 119714 | 94867 | 80939 | 79662 | 99773 | 128612 | 119274 | 110150 | 100832 | 95647 | 107526 | 118336 | 113781 | 104102 | 94742 | 83649 | 77268 |
| 405 | 0000 | 0004 | 0000 | 0000 | 0004 | 0005 | 0000 | 0007 | 0000 | 0000 | 0040 | 0044 | 0040 | 0040 | 0044 | 0045 | 0040 | 0047 | 0040 | 0040 |
| AGE . | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 |
| 1 | 9600 | 12701 | 13061 | 13155 | 26160 | 28427 | 22958 | 13509 | 29350 | 15837 | 9813 | 13530 | 10127 | 12548 | 30813 | 7889 | 9201 | 1715 | 37809 | 34572 |
| 2 | 13202 | 7857 | 10398 | 10693 | 10759 | 21412 | 23243 | 18771 | 10914 | 24017 | 12965 | 8033 | 11073 | 8287 | 10272 | 25225 | 6458 | 7533 | 3917 | 30932 |
| 3 | 10033 | 10531 | 6349 | 8501 | 8131 | 8684 | 17273 | 18951 | 15153 | 8886 | 19617 | 10167 | 6404 | 8672 | 6760 | 8405 | 20635 | 5281 | 11821 | 3127 |
| 4 | 10995 | 7754 | 8200 | 5097 | 6916 | 6455 | 7010 | 14023 | 15311 | 12276 | 7192 | 15677 | 8197 | 4921 | 6957 | 5481 | 6743 | 16683 | 4795 | 9499 |
| 5 | 8893 | 8140 | 5320 | 6004 | 3876 | 5265 | 4866 | 5258 | 10897 | 12050 | 9627 | 5425 | 12658 | 6439 | 3756 | 5363 | 4142 | 5254 | 23006 | 3714 |
| 6 7 | 6527 | 5713 | 4478 | 3037 | 3722 | 2330 | 3363 | 3243 | 3571 | 8112 | 8943 | 7214 | 4069 | 9876 | 4924 | 2686 | 3973 | 3074 | 8393 | 18261 |
| • | 4289 | 3306 | 2633 | 2032 | 1330 | 1949 | 1184 | 2247 | 2200 | 2405 | 5733 | 6301 | 5110 | 2801 | 7558 | 3794 | 1892 | 2992 | 4555 | 6487 |
| 8 | 1592 | 1924 | 1271 | 1084 | 1007 | 624 | 1183 | 639 | 1633 | 1487 | 1447 | 4071 | 4376 | 3529 | 1951 | 5624 | 2871 | 1382 | 3430 | 3450 |
| 9 | 308 | 794 | 753 | 576 | 399 | 491 | 346 | 793 | 432 | 1170 | 822 | 964 | 2897 | 2897 | 2478 | 1422 | 4292 | 2244 | 1725 | 2637 |
| 10 | 188 | 129 | 384 | 361 | 226 | 148 | 312 | 193 | 596 | 270 | 830 | 547 | 674 | 2070 | 2044 | 1856 | 1063 | 3328 | 1369 | 1294 |
| 11+ | 53 | 121 | 422 | 279 | 216 | 171 | 224 | 174 | 406 | 533 | 608 | 403 | 632 | 947 | 1959 | 1788 | 2996 | 3084 | 3215 | 3495 |
| Total ¹ | 65680 | 58970 [*] | 53268 | 50819 [*] | 62744 | 75958 | 81962 | 77800 | 90464 | 87041 | 77596 | 72332 | 66217 | 62988 | 79473 " | 69533 | 64266 * | 52570 [*] | 104035 | 117468 |

Table 11- continued. Estimates of beginning year stock size (thousands of fish), instantaneous fishing mortality (F), spawning stock biomass (mt), and percent mature of Gulf of Maine-Georges Bank American plaice, estimated from virtual population analysis (VPA), calibrated using the commercial catch at age ADAPT formulation.

| Fishing I | Mortality | | | | | | | | | | | | | | | | | | | |
|-----------|-----------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------|-------|
| AGE _ | 1980 | 1981 | 1982 | 1983 | 1984 | 1985 | 1986 | 1987 | 1988 | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 | 1998 | 1999 |
| 1 | 0.000 | 0.000 | 0.001 | 0.001 | 0.000 | 0.004 | 0.003 | 0.001 | 0.006 | 0.001 | 0.000 | 0.000 | 0.000 | 0.001 | 0.002 | 0.002 | 0.001 | 0.001 | 0.003 | 0.000 |
| 2 | 0.003 | 0.027 | 0.032 | 0.044 | 0.020 | 0.014 | 0.046 | 0.033 | 0.025 | 0.059 | 0.068 | 0.014 | 0.014 | 0.014 | 0.029 | 0.092 | 0.069 | 0.037 | 0.006 | 0.019 |
| 3 | 0.037 | 0.078 | 0.119 | 0.102 | 0.085 | 0.086 | 0.082 | 0.179 | 0.137 | 0.113 | 0.170 | 0.084 | 0.070 | 0.040 | 0.026 | 0.081 | 0.074 | 0.027 | 0.024 | 0.015 |
| 4 | 0.130 | 0.243 | 0.231 | 0.272 | 0.240 | 0.157 | 0.230 | 0.226 | 0.273 | 0.301 | 0.242 | 0.330 | 0.220 | 0.234 | 0.174 | 0.246 | 0.254 | 0.170 | 0.075 | 0.114 |
| 5 | 0.255 | 0.413 | 0.355 | 0.414 | 0.586 | 0.398 | 0.307 | 0.378 | 0.420 | 0.403 | 0.424 | 0.530 | 0.646 | 0.537 | 0.555 | 0.599 | 0.430 | 0.412 | 0.270 | 0.211 |
| 6 | 0.370 | 0.396 | 0.545 | 0.598 | 0.533 | 0.622 | 0.456 | 0.422 | 0.438 | 0.422 | 0.331 | 0.479 | 0.618 | 0.651 | 0.604 | 0.886 | 0.593 | 0.531 | 0.495 | 0.409 |
| 7 | 0.510 | 0.405 | 0.763 | 0.811 | 0.682 | 0.885 | 0.652 | 0.558 | 0.309 | 0.507 | 0.336 | 0.240 | 0.705 | 0.774 | 0.673 | 0.684 | 0.756 | 0.525 | 0.717 | 0.578 |
| 8 | 0.326 | 0.437 | 0.725 | 0.775 | 0.498 | 1.085 | 0.682 | 0.628 | 0.324 | 0.579 | 0.496 | 0.239 | 0.214 | 0.487 | 0.949 | 0.914 | 0.586 | 0.568 | 0.546 | 0.882 |
| 9 | 0.535 | 0.296 | 0.754 | 0.594 | 0.371 | 0.895 | 0.837 | 0.439 | 0.430 | 0.413 | 0.409 | 0.483 | 0.300 | 0.571 | 1.120 | 1.139 | 0.500 | 0.416 | 0.366 | 0.540 |
| 10 | 0.409 | 0.407 | 0.650 | 0.678 | 0.571 | 0.758 | 0.553 | 0.492 | 0.382 | 0.484 | 0.365 | 0.374 | 0.577 | 0.671 | 0.677 | 0.838 | 0.625 | 0.532 | 0.545 | 0.484 |
| 11+ | 0.409 | 0.407 | 0.650 | 0.678 | 0.571 | 0.758 | 0.553 | 0.492 | 0.382 | 0.484 | 0.365 | 0.374 | 0.577 | 0.671 | 0.677 | 0.838 | 0.625 | 0.532 | 0.545 | 0.484 |
| | | | | | | | | | | | | | | | | | | | | |
| F6-9 | 0.435 | 0.384 | 0.697 | 0.694 | 0.521 | 0.872 | 0.657 | 0.512 | 0.375 | 0.480 | 0.393 | 0.360 | 0.459 | 0.621 | 0.837 | 0.906 | 0.609 | 0.510 | 0.531 | 0.602 |
| | | | | | | | | | | | | | | | | | | | | |
| _ | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | |
| Age | | | | | | | | | | | | | | | | | | | | |
| 1 | 0.000 | 0.000 | 0.000 | 0.001 | 0.000 | 0.001 | 0.001 | 0.013 | 0.001 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | | 0.0008 | |
| 2 | 0.026 | 0.013 | 0.001 | 0.074 | 0.014 | 0.015 | 0.004 | 0.014 | 0.006 | 0.002 | 0.043 | 0.027 | 0.044 | 0.004 | 0.001 | 0.001 | 0.001 | | 0.0255 | |
| 3 | 0.058 | 0.050 | 0.020 | 0.006 | 0.031 | 0.014 | 0.008 | 0.013 | 0.011 | 0.011 | 0.024 | 0.015 | 0.063 | 0.020 | 0.010 | 0.020 | | | | |
| 4 | 0.101 | 0.177 | 0.112 | 0.074 | 0.073 | 0.083 | 0.088 | 0.052 | 0.040 | 0.043 | 0.082 | 0.014 | 0.041 | 0.070 | 0.060 | 0.080 | | | | |
| 5 | 0.243 | 0.398 | 0.360 | 0.278 | 0.309 | 0.248 | 0.206 | 0.187 | 0.095 | 0.098 | 0.089 | 0.088 | 0.048 | 0.068 | 0.135 | 0.100 | | | 0.0310 | |
| 6 | 0.480 | 0.575 | 0.590 | 0.626 | 0.447 | 0.477 | 0.203 | 0.188 | 0.195 | 0.147 | 0.150 | 0.145 | 0.173 | 0.067 | 0.061 | 0.150 | | 0.0631 | | |
| 7 | 0.602 | 0.756 | 0.688 | 0.502 | 0.557 | 0.299 | 0.416 | 0.119 | 0.192 | 0.308 | 0.142 | 0.165 | 0.170 | 0.161 | 0.096 | 0.079 | • | 0.0600 | | |
| 8 | 0.496 | 0.738 | 0.592 | 0.800 | 0.518 | 0.390 | 0.201 | 0.191 | 0.133 | 0.393 | 0.207 | 0.140 | 0.212 | 0.154 | 0.116 | 0.070 | | 0.0535 | | |
| 9 | 0.673 | 0.525 | 0.535 | 0.733 | 0.788 | 0.256 | 0.384 | 0.085 | 0.270 | 0.143 | 0.207 | 0.157 | 0.136 | 0.149 | 0.089 | 0.091 | | 0.0703 | | |
| 10 | 0.523 | 0.654 | 0.620 | 0.610 | 0.482 | 0.392 | 0.243 | 0.163 | 0.180 | 0.205 | 0.152 | 0.151 | 0.185 | 0.102 | 0.086 | 0.090 | | 0.0603 | | |
| 11+ | 0.523 | 0.654 | 0.620 | 0.610 | 0.482 | 0.392 | 0.243 | 0.163 | 0.180 | 0.205 | 0.152 | 0.151 | 0.185 | 0.102 | 0.086 | 0.090 | 0.075 | 0.0603 | 0.0714 | |
| F6-9 | 0.563 | 0.648 | 0.601 | 0.665 | 0.577 | 0.356 | 0.301 | 0.146 | 0.198 | 0.248 | 0.176 | 0.152 | 0.173 | 0.133 | 0.090 | 0.098 | 0.075 | 0.062 | 0.071 | |

Table 11- continued. Estimates of beginning year stock size (thousands of fish), instantaneous fishing mortality (F), spawning stock biomass (mt), and percent mature of Gulf of Maine-Georges Bank American plaice, estimated from virtual population analysis (VPA), calibrated using the commercial catch at age ADAPT formulation.

| SSB at sta | art of spa | awning | seasor | 1 | | | | | | | | | | | | | | | | |
|------------|------------|--------|--------|-------|-------|-------|------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------------------|------|
| AGE | 1980 | 1981 | 1982 | 1983 | 1984 | 1985 | 1986 | 1987 | 1988 | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 | 1998 | 1999 |
| 1 | 0 | 4 | 5 | 2 | 0 | 8 | 4 | 3 | 6 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2 | 38 | 111 | 72 | 20 | 38 | 23 | 28 | 25 | 32 | 40 | 6 | 5 | 4 | 3 | 3 | 3 | 6 | 1 | 4 | 4 |
| 3 | 497 | 647 | 858 | 410 | 220 | 271 | 208 | 208 | 322 | 393 | 294 | 117 | 112 | 147 | 152 | 171 | 147 | 137 | 92 | 106 |
| 4 | 2536 | 2596 | 2228 | 2933 | 1401 | 966 | 866 | 873 | 1039 | 1324 | 1901 | 2510 | 1038 | 1213 | 1811 | 1761 | 2030 | 1738 | 1404 | 1041 |
| 5 | 4584 | 4181 | 3977 | 4160 | 4348 | 1774 | 1499 | 1982 | 1347 | 1355 | 1702 | 3461 | 4090 | 2017 | 2309 | 2689 | 2690 | 3582 | 3649 | 2524 |
| 6 | 6659 | 5642 | 3571 | 3866 | 3844 | 2713 | 1585 | 1744 | 1931 | 1042 | 1095 | 1574 | 2904 | 2684 | 1415 | 1462 | 1690 | 2094 | 2639 | 2837 |
| 7 | 6353 | 5108 | 4481 | 2307 | 2590 | 2252 | 1598 | 1371 | 1473 | 1314 | 721 | 1088 | 1166 | 1816 | 1464 | 863 | 712 | 1016 | 1236 | 1687 |
| 8 | 4086 | 3754 | 3398 | 2014 | 1331 | 1294 | 1114 | 1027 | 987 | 941 | 752 | 695 | 1070 | 673 | 804 | 780 | 514 | 376 | 627 | 576 |
| 9 | 2874 | 2646 | 2203 | 1663 | 913 | 783 | 498 | 648 | 607 | 697 | 501 | 512 | 606 | 780 | 343 | 262 | 376 | 298 | 228 | 350 |
| 10 | 3040 | 1508 | 1803 | 1051 | 829 | 592 | 346 | 235 | 420 | 356 | 393 | 385 | 349 | 391 | 377 | 128 | 95 | 216 | 172 | 143 |
| 11+ | 7340 | 2711 | 2520 | 2722 | 3121 | 625 | 467 | 324 | 369 | 547 | 850 | 578 | 385 | 518 | 1257 | 141 | 297 | 622 | 1101 | 364 |
| Total | 38007 | 28908 | 25115 | 21149 | 18636 | 11301 | 8215 | 8440 | 8533 | 8010 | 8216 | 10924 | 11725 | 10242 | 9934 | 8261 | 8556 | 10082 | 11152 [*] | 9631 |
| AGE | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | |
| 1 | 0 | 0 | 0 | 4 | 0 | 1 | 1 | 1 | 0 | 3 | 2 | 2 | 0 | 1 | 2 | 1 | 4 | 1 | 7 | |
| 2 | 5 | 2 | 3 | 2 | 5 | 7 | 15 | 19 | 12 | 23 | 20 | 11 | 13 | 12 | 18 | 56 | 23 | 43 | 23 | |
| 3 | 94 | 68 | 49 | 79 | 46 | 57 | 137 | 303 | 271 | 122 | 284 | 85 | 57 | 120 | 191 | 241 | 1099 | 241 | 445 | |
| 4 | 1023 | 1076 | 737 | 515 | 553 | 522 | 544 | 1400 | 1809 | 1398 | 662 | 1265 | 356 | 402 | 842 | 947 | 1536 | 6379 | 703 | |
| 5 | 2476 | 2395 | 1537 | 1576 | 995 | 1316 | 1361 | 1428 | 3071 | 3032 | 2167 | 1480 | 2874 | 1550 | 1042 | 1797 | 1643 | 4400 | 8067 | |
| 6 | 2584 | 2261 | 1685 | 1127 | 1337 | 838 | 1344 | 1314 | 1417 | 2984 | 3146 | 2589 | 1474 | 3539 | 2108 | 1173 | 1977 | 3049 | 3853 | |
| 7 | 2178 | 1633 | 1238 | 1001 | 640 | 960 | 564 | 1197 | 1098 | 1044 | 2541 | 2737 | 2335 | 1280 | 3560 | 2032 | 1079 | 2632 | 2524 | |
| 8 | 1110 | 1210 | 815 | 625 | 615 | 399 | 776 | 412 | 954 | 720 | 746 | 2058 | 2108 | 1774 | 1077 | 3181 | 1800 | 1523 | 2079 | |
| 9 | 242 | 678 | 584 | 417 | 278 | 377 | 264 | 667 | 307 | 698 | 441 | 550 | 1562 | 1531 | 1437 | 942 | 2790 | 1308 | 1209 | |
| 10 | 196 | 131 | 354 | 317 | 187 | 131 | 268 | 178 | 461 | 199 | 492 | 323 | 385 | 1163 | 1292 | 1210 | 808 | 1879 | 1044 | |
| 11+ | 83 | 147 | 497 | 283 | 220 | 189 | 259 | 230 | 384 | 504 | 538 | 316 | 469 | 842 | 1504 | 1371 | 2391 | 2712 | 2536 | |
| _Total | 9992 | 9602 | 7499 | 5947 | 4876 | 4798 | 5534 | 7149 | 9783 | 10726 | 11038 | 11415 | 11635 | 12214 | 13073 | 12952 | 15148 | 24167 | 22490 | |

Table 11- continued. Estimates of beginning year stock size (thousands of fish), instantaneous fishing mortality (F), spawning stock biomass (mt), and percent mature of Gulf of Maine-Georges Bank American plaice, estimated from virtual population analysis (VPA), calibrated using the commercial catch at age ADAPT formulation.

Percent mature (females)

| AGE | 1980 | 1981 | 1982 | 1983 | 1984 | 1985 | 1986 | 1987 | 1988 | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 | 1998 | 1999 |
|-----------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|--------------|----------------------|----------------------|----------------------|------|
| 1 | 0.00 | 0.01 | 0.02 | 0.01 | 0.02 | 0.04 | 0.02 | 0.01 | 0.01 | 0.01 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 2 | 0.02 | 0.05 | 0.06 | 0.05 | 0.08 | 0.12 | 0.07 | 0.05 | 0.04 | 0.04 | 0.02 | 0.02 | 0.02 | 0.01 | 0.01 | 0.01 | 0.02 | 0.01 | 0.02 | 0.02 |
| 3 | 0.15 | 0.19 | 0.18 | 0.18 | 0.24 | 0.29 | 0.24 | 0.25 | 0.26 | 0.22 | 0.14 | 0.14 | 0.14 | 0.12 | 0.12 | 0.12 | 0.13 | 0.12 | 0.14 | 0.16 |
| 4 | 0.55 | 0.51 | 0.46 | 0.47 | 0.53 | 0.57 | 0.57 | 0.69 | 0.72 | 0.68 | 0.64 | 0.62 | 0.60 | 0.58 | 0.58 | 0.6 | 0.58 | 0.59 | 0.60 | 0.58 |
| 5 | 0.90 | 0.82 | 0.76 | 0.78 | 0.80 | 0.81 | 0.85 | 0.94 | 0.95 | 0.94 | 0.95 | 0.94 | 0.93 | 0.93 | 0.93 | 0.94 | 0.93 | 0.93 | 0.94 | 0.91 |
| 6 | 0.98 | 0.95 | 0.92 | 0.94 | 0.93 | 0.93 | 0.96 | 0.99 | 0.99 | 0.99 | 0.99 | 0.99 | 0.99 | 0.99 | 0.99 | 0.99 | 0.99 | 0.99 | 0.99 | 0.99 |
| 7 | 1.00 | 0.99 | 0.98 | 0.98 | 0.98 | 0.98 | 0.99 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| 8 | 1.00 | 1.00 | 0.99 | 1.00 | 0.99 | 0.99 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| 9 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| 10 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| 11+ | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| | | | | | | | | | | | | | | | | | | | | |
| AGE | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | |
| 1 | 0.00 | 0.00 | 0.00 | 0.01 | 0.00 | 0.01 | 0.01 | 0.01 | 0.02 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.06 | 0.03 | 0.04 | 0.02 | 0.02 | |
| 2 | 0.03 | 0.02 | 0.02 | 0.03 | 0.02 | 0.04 | 0.04 | 0.06 | 0.07 | 0.09 | 0.09 | 0.10 | 0.09 | 0.10 | 0.16 | 0.13 | 0.14 | 0.10 | 0.13 | |
| 3 | 0.17 | 0.17 | 0.16 | 0.17 | 0.14 | 0.19 | 0.19 | 0.22 | 0.24 | 0.25 | 0.24 | 0.25 | 0.23 | 0.27 | 0.38 | 0.39 | 0.41 | 0.42 | 0.46 | |
| 4 | 0.61 | 0.64 | 0.62 | 0.56 | 0.56 | 0.59 | 0.59 | 0.56 | 0.55 | 0.54 | 0.51 | 0.50 | 0.48 | 0.54 | 0.66 | 0.74 | 0.75 | 0.83 | 0.83 | |
| 5 | 0.92 | 0.94 | 0.93 | 0.89 | 0.91 | 0.90 | 0.90 | 0.85 | 0.83 | 0.80 | 0.77 | 0.76 | 0.74 | 0.79 | 0.86 | 0.93 | 0.93 | 0.97 | 0.97 | |
| 6 | 0.99 | 0.99 | 0.99 | 0.98 | 0.99 | 0.98 | 0.98 | 0.96 | 0.95 | 0.93 | 0.91 | 0.91 | 0.90 | 0.92 | 0.95 | 0.98 | 0.98 | 0.99 | 0.99 | |
| 7 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 0.99 | 0.99 | 0.98 | 0.97 | 0.97 | 0.96 | 0.98 | 0.98 | 1.00 | 1.00 | 1.00 | 1.00 | |
| 8 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 0.99 | 0.99 | 0.99 | 0.99 | 0.99 | 0.99 | 1.00 | 1.00 | 1.00 | 1.00 | |
| 9 | 4 00 | 1.00 | 1.00 | 4 00 | 1 00 | 1 00 | 4 00 | 1.00 | 4 00 | 1 00 | 1 00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | |
| | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | | |
| 10 11+ | 1.00 1.00 1.00 | 1.00 1.00 | 1.00 1.00 1.00 | 1.00 1.00 1.00 | 1.00 1.00 1.00 | |

Table 12. Input data for yield-per-recruit and projection analysis. Selectivity, mean weight, and proportion mature estimated as averages of 2014-2018.

| Age | VPA | Natural | Jan 1 Stock | Catch | SSB | Proportion |
|-----|-------------|-----------|-------------|--------|--------|------------|
| | Selectivity | Mortality | Weight | Weight | Weight | Mature |
| 1 | 0.00 | 0.20 | 0.008 | 0.012 | 0.008 | 0.03 |
| 2 | 0.07 | 0.20 | 0.030 | 0.073 | 0.030 | 0.13 |
| 3 | 0.12 | 0.20 | 0.108 | 0.202 | 0.108 | 0.41 |
| 4 | 0.44 | 0.20 | 0.266 | 0.360 | 0.266 | 0.76 |
| 5 | 0.69 | 0.20 | 0.417 | 0.470 | 0.417 | 0.93 |
| 6 | 0.82 | 0.20 | 0.517 | 0.559 | 0.517 | 0.98 |
| 7 | 1.00 | 0.20 | 0.588 | 0.621 | 0.588 | 1.00 |
| 8 | 1.00 | 0.20 | 0.651 | 0.687 | 0.651 | 1.00 |
| 9 | 1.00 | 0.20 | 0.712 | 0.754 | 0.712 | 1.00 |
| 10 | 1.00 | 0.20 | 0.760 | 0.793 | 0.760 | 1.00 |
| 11+ | 1.00 | 0.20 | 0.872 | 0.872 | 0.872 | 1.00 |

Table 13. Projection results for 2019-2022 where 2019 catch = 1,131 mt Projected F in 2018-2010 is the FMSY proxy = F40% = 0.258. Starting stock sizes in 2019 adjusted at age for the retrospective bias.

| Year | 5% | Catch | 95% |
|------|--------|--------|--------|
| 2017 | 1,131 | 1,131 | 1,131 |
| 2018 | 3,464 | 4,078 | 4,768 |
| 2019 | 2,962 | 3,543 | 4,440 |
| 2020 | 2,612 | 3,364 | 5,865 |
| | | | |
| Year | 5% | SSB | 95% |
| 2017 | 16,193 | 18,954 | 22,104 |
| 2018 | 15,107 | 17,768 | 20,640 |
| 2019 | 13,107 | 15,873 | 21,233 |
| 2020 | 11,704 | 15,414 | 28,619 |
| | | | |
| Year | 5% | F | 95% |
| 2017 | 0.057 | 0.066 | 0.078 |
| 2018 | 0.258 | 0.258 | 0.258 |
| 2019 | 0.258 | 0.258 | 0.258 |
| 2020 | 0.258 | 0.258 | 0.258 |