

Table 23. Mean January 1/spawning stock weights-at-age (kg) of Gulf of Maine Atlantic cod from 1982 to 2016 an age 9⁺ group. Mean weights-at-age were estimated by applying a Rivard-type approach (see NEFSC 2013) to numbers-weighted catch weights without mortality assumptions applied (uses all fish encountered). Cells shaded grey were imputed using a 5-year centered moving average. *Only ages 1 through the 9⁺ group are used as assessment model inputs.*

| Year | Age0 | Age1 | Age2 | Age3 | Age4 | Age5 | Age6 | Age7 | Age8 | Age9 |
|-------------------|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------|
| 1982 | 0.002 | 0.241 | 0.594 | 1.165 | 2.127 | 4.635 | 7.622 | 9.289 | 9.695 | 15.664 |
| 1983 | 0.008 | 0.050 | 0.501 | 1.114 | 1.894 | 3.136 | 5.539 | 6.549 | 9.962 | 13.325 |
| 1984 | 0.000 | 0.075 | 0.372 | 1.019 | 2.021 | 2.952 | 4.593 | 7.118 | 7.845 | 14.828 |
| 1985 | 0.015 | 0.014 | 0.403 | 0.910 | 2.013 | 3.532 | 4.608 | 6.863 | 9.700 | 13.676 |
| 1986 | 0.001 | 0.104 | 0.316 | 1.077 | 1.917 | 3.670 | 5.504 | 6.908 | 9.315 | 14.646 |
| 1987 | 0.001 | 0.028 | 0.406 | 0.777 | 2.273 | 3.574 | 5.889 | 8.079 | 9.487 | 14.582 |
| 1988 | 0.000 | 0.022 | 0.293 | 0.980 | 1.709 | 4.010 | 4.927 | 6.705 | 10.069 | 12.993 |
| 1989 | 0.022 | 0.027 | 0.292 | 0.887 | 2.179 | 3.172 | 5.578 | 6.945 | 8.799 | 20.913 |
| 1990 | 0.006 | 0.095 | 0.431 | 0.937 | 1.742 | 3.627 | 5.750 | 8.043 | 10.440 | 18.718 |
| 1991 | 0.007 | 0.071 | 0.450 | 1.083 | 1.689 | 2.846 | 5.654 | 8.972 | 11.518 | 14.060 |
| 1992 | 0.012 | 0.028 | 0.476 | 1.215 | 2.026 | 2.564 | 4.629 | 8.832 | 10.453 | 14.483 |
| 1993 | 0.012 | 0.046 | 0.191 | 1.254 | 1.702 | 3.449 | 4.083 | 7.388 | 12.219 | 15.708 |
| 1994 | 0.010 | 0.038 | 0.236 | 1.003 | 2.244 | 2.571 | 5.294 | 6.601 | 11.095 | 11.846 |
| 1995 | 0.012 | 0.051 | 0.275 | 0.946 | 2.021 | 3.934 | 4.722 | 8.526 | 10.045 | 22.443 |
| 1996 | 0.022 | 0.060 | 0.356 | 1.462 | 1.784 | 2.971 | 6.185 | 8.967 | 12.844 | 16.357 |
| 1997 | 0.005 | 0.049 | 0.391 | 1.466 | 2.407 | 2.571 | 3.973 | 8.245 | 11.940 | 16.938 |
| 1998 | 0.002 | 0.059 | 0.256 | 1.445 | 2.245 | 3.423 | 3.558 | 5.739 | 10.442 | 16.676 |
| 1999 | 0.022 | 0.044 | 0.343 | 1.196 | 2.237 | 3.139 | 4.752 | 5.301 | 8.351 | 12.279 |
| 2000 | 0.009 | 0.120 | 0.461 | 1.063 | 2.257 | 3.422 | 4.773 | 5.508 | 7.882 | 12.661 |
| 2001 | 0.023 | 0.097 | 0.456 | 1.305 | 2.420 | 3.851 | 5.091 | 6.513 | 6.912 | 9.538 |
| 2002 | 0.012 | 0.089 | 0.465 | 1.050 | 2.249 | 3.247 | 5.296 | 6.514 | 7.924 | 12.152 |
| 2003 | 0.022 | 0.089 | 0.346 | 1.053 | 1.742 | 2.977 | 4.118 | 6.837 | 8.011 | 12.023 |
| 2004 | 0.010 | 0.066 | 0.357 | 0.950 | 2.074 | 2.634 | 4.264 | 5.971 | 8.655 | 13.758 |
| 2005 | 0.008 | 0.061 | 0.243 | 0.832 | 1.613 | 3.279 | 3.871 | 5.869 | 7.681 | 12.474 |
| 2006 | 0.047 | 0.090 | 0.300 | 0.795 | 1.885 | 2.468 | 4.089 | 4.959 | 6.816 | 12.361 |
| 2007 | 0.009 | 0.128 | 0.447 | 0.909 | 1.754 | 3.008 | 3.767 | 5.180 | 6.578 | 13.295 |
| 2008 | 0.049 | 0.085 | 0.405 | 1.093 | 1.867 | 2.869 | 3.920 | 5.277 | 6.330 | 12.711 |
| 2009 | 0.013 | 0.173 | 0.477 | 1.212 | 2.262 | 2.896 | 3.679 | 5.186 | 7.048 | 13.813 |
| 2010 | 0.006 | 0.099 | 0.553 | 1.143 | 2.340 | 3.251 | 3.762 | 4.700 | 7.331 | 11.892 |
| 2011 | 0.043 | 0.086 | 0.460 | 1.257 | 1.920 | 3.206 | 4.095 | 4.765 | 5.531 | 12.957 |
| 2012 | 0.000 | 0.156 | 0.485 | 1.114 | 2.048 | 2.657 | 3.796 | 4.848 | 5.329 | 9.895 |
| 2013 | 0.018 | 0.020 | 0.466 | 1.085 | 1.854 | 2.735 | 3.144 | 4.565 | 5.984 | 11.143 |
| 2014 | 0.022 | 0.137 | 0.617 | 1.037 | 1.657 | 2.247 | 3.235 | 3.506 | 5.790 | 8.560 |
| 2015 | 0.017 | 0.105 | 0.478 | 1.172 | 1.799 | 2.561 | 2.957 | 4.212 | 5.449 | 13.956 |
| 2016 | 0.001 | 0.075 | 0.364 | 0.877 | 1.790 | 2.458 | 4.057 | 4.114 | 5.693 | 10.168 |
| 2014-2016 average | | 0.105 | 0.486 | 1.028 | 1.749 | 2.422 | 3.416 | 3.944 | 5.644 | 10.895 |