**Supplementary Appendices**

Supplementary Appendix A. Year × quarter estimates of market squid spawning stock biomass [mt] in CDFW management Regions 1, 2, and 3 (see Figure 3). Estimates based on the method of Dorval et al. (2013), assuming a natural mortality rate of **M** = 0.15 and an egg laying rate of **ν** = 0.45.

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  |  | Region 1 |  |  |  |  | Region 2 |  |  |  |  | Region 3 |  |  |
| Year | Jan-Mar | Apr-Jun | Jul-Sep | Oct-Dec |  | Jan-Mar | Apr-Jun | Jul-Sep | Oct-Dec |  | Jan-Mar | Apr-Jun | Jul-Sep | Oct-Dec |
| 1999 | - | - | - | - |  | 10,260 | 19,069 | 3,095 | 51,124 |  | 2,803 | 5,704 | 276 | 9,566 |
| 2000 | - | 7,631 | 2,539 | 440 |  | 29,523 | 11,019 | 3,187 | 127,275 |  | 11,695 | 2,593 | 1,161 | 21,114 |
| 2001 | - | 1,447 | 6,473 | 982 |  | 19,081 | 10,252 | 3,986 | 42,345 |  | 31,831 | 701 | 1,048 | 51,640 |
| 2002 | 1,876 | 19,523 | 6,438 | 2,864 |  | 12,302 | 1,030 | 2,458 | 14,738 |  | 70,594 | 964 | 135 | 523 |
| 2003 | - | 6,821 | 9,656 | 5,715 |  | 4,137 | 862 | 1,556 | 32,561 |  | 1,067 | 727 | 1,904 | 2,281 |
| 2004 | - | 6,319 | 2,766 | - |  | 18,905 | 13,775 | - | 36,702 |  | 31,635 | 401 | - | 377 |
| 2005 | - | 3,349 | 1,126 | - |  | 108,656 | - | - | 6,460 |  | 6,952 | 1,120 | 1,992 | 29,451 |
| 2006 | - | 1,446 | 163 | - |  | 5,686 | - | 656 | 9,557 |  | 70,261 | 4,501 | 3,797 | - |
| 2007 | - | - | - | - |  | 79,634 | 345 | 404 | - |  | 7,398 | - | 356 | 2,918 |
| 2008 | - | - | - | - |  | 13,149 | - | 4,420 | - |  | 11,927 | 1,382 | 2,879 | - |
| 2009 | - | 483 | - | - |  | 63,426 | - | - | 78,918 |  | 17,838 | 2,388 | 6,908 | 6,960 |
| 2010 | - | 36,598 | 9,695 | 4,543 |  | - | - | 5,093 | 59,113 |  | 31,104 | - | 1,816 | 78,156 |
| 2011 | - | 6,169 | 7,257 | - |  | 5,669 | - | 30,367 | 68,008 |  | 4,045 | - | 9,781 | 45,882 |
| 2012 | - | - | 9,402 | 21,354 |  | 4,612 | 1,732 | 35,799 | 101,764 |  | 8,418 | - | 0 | 109,407 |
| 2013 | - | 775 | 19,944 | 1,597 |  | - | 9,588 | 42,729 | 57,741 |  | 2,076 | 5,204 | 27,047 | 30,655 |
| 2014 | - | 20,274 | 31,806 | - |  | - | 3,596 | - | - |  | 644 | 3,335 | - | - |