Appendix 1. Seasonal abundances of sea ducks estimated during aerial surveys (Lower Great Lakes Migrant Waterfowl Survey [LGLMWS], Mid-Winter Survey [MWS]; raw data with visual correction factors applied) or counted during ground-based surveys (Christmas Bird Count [CBC]; no visual correction factors applied) undertaken within the **Western Lake Erie** Key Site between 1997 and 2018.

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Survey** | **Season** | **Year** | **Total** | **LTDU** | **BUFF** | **COGO** | **HOME** | **COME** | **RBME** | **BLSC** | **SUSC** | **WWSC** |
| LGLMWS | Spring | 2002 | 44,336 | 0 | 4,065 | 3,686 | 75 | 30,717 | 5,793 | 0 | 0 | 0 |
|  |  | 2011 | 22,527 | 1,060 | 245 | 5,466 | 0 | 943 | 14,815 | 0 | 0 | 0 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | Max: | 44,336 | 1,060 | 4,065 | 5,466 | 75 | 30,717 | 14,815 | 0 | 0 | 0 |
|  |  | Avg: | 33,432 | 530 | 2,155 | 4,576 | 38 | 15,830 | 10,304 | 0 | 0 | 0 |
|  |  | %: |  | 0.02 | 0.06 | 0.14 | 0.00 | 0.47 | 0.31 | 0.00 | 0.00 | 0.00 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |
| Survey | Season | Year | Total | LTDU | BUFF | COGO | HOME | COME | RBME | BLSC | SUSC | WWSC |
| LGLMWS | Fall | 2001 | 14,520 | 14 | 1,764 | 971 | 0 | 11,694 | 74 | 0 | 0 | 3 |
|  |  | 2011 | 34,000 | 287 | 2,041 | 17,754 | 0 | 75 | 13,834 | 9 | 0 | 0 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | Max: | 34,000 | 287 | 2,041 | 17,754 | 0 | 11,694 | 13,834 | 9 | 0 | 3 |
|  |  | Avg: | 24,260 | 150 | 1,902 | 9,362 | 0 | 5,885 | 6,954 | 4 | 0 | 2 |
|  |  | %: |  | 0.01 | 0.08 | 0.39 | 0.00 | 0.24 | 0.29 | 0.00 | 0.00 | 0.00 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |
| Survey | Season | Year | Total | LTDU | BUFF | COGO | HOME | COME | RBME | BLSC | SUSC | WWSC |
| MWS | Winter | 2002 | 2,467 | 0 | 1,060 | 733 | 0 | 674 | 0 | 0 | 0 | 0 |
|  |  | 2003 | 3,430 | 0 | 241 | 530 | 0 | 486 | 2,174 | 0 | 0 | 0 |
|  |  | 2004 | 852 | 0 | 65 | 75 | 0 | 712 | 0 | 0 | 0 | 0 |
|  |  | 2005 | 1,485 | 0 | 0 | 0 | 0 | 1,485 | 0 | 0 | 0 | 0 |
|  |  | 2006 | 11,558 | 0 | 0 | 171 | 0 | 9,197 | 2,190 | 0 | 0 | 0 |
|  |  | 2007 | 7,106 | 0 | 319 | 21 | 0 | 5,440 | 1,325 | 0 | 0 | 0 |
|  |  | 2008 | 1,789 | 0 | 111 | 531 | 0 | 1,099 | 48 | 0 | 0 | 0 |
|  |  | 2009 | 1,229 | 0 | 0 | 29 | 0 | 239 | 961 | 0 | 0 | 0 |
|  |  | 2010 | 6,789 | 380 | 623 | 2,411 | 0 | 844 | 2,532 | 0 | 0 | 0 |
|  |  | 2011 | 1,987 | 0 | 0 | 898 | 0 | 51 | 1,038 | 0 | 0 | 0 |
|  |  | 2012 | 7,705 | 0 | 0 | 1,778 | 0 | 310 | 5,617 | 0 | 0 | 0 |
|  |  | 2013 | 11,970 | 0 | 65 | 11,323 | 0 | 67 | 515 | 0 | 0 | 0 |
|  |  | 2014 | 10,551 | 434 | 531 | 3,178 | 0 | 847 | 5,561 | 0 | 0 | 0 |
|  |  | 2015 | 574 | 79 | 0 | 370 | 0 | 123 | 3 | 0 | 0 | 0 |
|  |  | 2016 | 33,787 | 0 | 7,146 | 35 | 0 | 167 | 26,432 | 3 | 0 | 3 |
|  |  | 2017 | 46,370 | 0 | 10 | 3,690 | 0 | 7,349 | 21,833 | 9,523 | 0 | 3,966 |
|  |  | 2018 | 2,945 | 0 | 16 | 1,040 | 0 | 1,606 | 253 | 0 | 0 | 30 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | Max: | 46,370 | 434 | 7,146 | 11,323 | 0 | 9,197 | 26,432 | 9,523 | 0 | 3,966 |
|  |  | Avg: | 8,976 | 53 | 599 | 1,577 | 0 | 1,806 | 4,146 | 560 | 0 | 235 |
|  |  | %: |  | 0.01 | 0.07 | 0.18 | 0.00 | 0.20 | 0.46 | 0.06 | 0.00 | 0.03 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Appendix 1 – **Western Lake Erie** (cont.) | | | | | | | | | | | | |
| **Survey** | **Season** | **Year** | **Total** | **LTDU** | **BUFF** | **COGO** | **HOME** | **COME** | **RBME** | **BLSC** | **SUSC** | **WWSC** |
| CBC | Winter | 1997 | 8,686 | 24 | 341 | 307 | 74 | 3,638 | 4,056 | 11 | 140 | 95 |
|  |  | 1998 | 8,413 | 15 | 917 | 304 | 359 | 2,557 | 4,083 | 17 | 143 | 19 |
|  |  | 1999 | 5,088 | 4 | 165 | 278 | 52 | 3,023 | 1,478 | 7 | 69 | 12 |
|  |  | 2000 | 4,498 | 0 | 297 | 712 | 7 | 1,297 | 2,171 | 0 | 12 | 2 |
|  |  | 2001 | 5,878 | 6 | 923 | 368 | 245 | 418 | 3,734 | 25 | 124 | 35 |
|  |  | 2002 | 1,996 | 7 | 259 | 202 | 3 | 870 | 572 | 5 | 67 | 11 |
|  |  | 2003 | 2,864 | 26 | 235 | 897 | 147 | 673 | 711 | 119 | 51 | 5 |
|  |  | 2004 | 7,890 | 0 | 86 | 1,633 | 41 | 3,442 | 2,668 | 10 | 1 | 9 |
|  |  | 2005 | 9,703 | 4 | 128 | 3,193 | 13 | 5,541 | 724 | 40 | 60 | 0 |
|  |  | 2006 | 18,919 | 3 | 92 | 243 | 46 | 1,020 | 17,477 | 2 | 26 | 10 |
|  |  | 2007 | 3,524 | 4 | 168 | 524 | 31 | 1,805 | 937 | 8 | 29 | 18 |
|  |  | 2008 | 10,653 | 12 | 98 | 3,716 | 18 | 5,174 | 1,619 | 7 | 4 | 5 |
|  |  | 2009 | 10,199 | 1 | 65 | 246 | 3 | 430 | 9,410 | 1 | 21 | 22 |
|  |  | 2010 | 3,350 | 18 | 110 | 1,257 | 5 | 1,766 | 134 | 1 | 2 | 57 |
|  |  | 2011 | 50,612 | 9 | 187 | 952 | 279 | 1,666 | 47,439 | 16 | 28 | 36 |
|  |  | 2012 | 7,611 | 48 | 1,565 | 755 | 281 | 317 | 4,048 | 69 | 60 | 468 |
|  |  | 2013 | 2,799 | 1 | 70 | 1,094 | 7 | 628 | 991 | 3 | 0 | 5 |
|  |  | 2014 | 9,380 | 9 | 76 | 2,528 | 8 | 2,606 | 3,107 | 32 | 54 | 960 |
|  |  | 2015 | 15,793 | 1 | 456 | 9,309 | 169 | 545 | 5,230 | 2 | 28 | 53 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | Max: | 50,612 | 48 | 1,565 | 9,309 | 359 | 5,541 | 47,439 | 119 | 143 | 960 |
|  |  | Avg: | 9,887 | 10 | 328 | 1,501 | 94 | 1,969 | 5,820 | 20 | 48 | 96 |
|  |  | %: |  | 0.00 | 0.03 | 0.15 | 0.01 | 0.20 | 0.59 | 0.00 | 0.00 | 0.01 |