Appendix 1. Seasonal abundance 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 **Eastern Lake Erie** Key Site, 1997–2018.

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Survey** | **Season** | **Year** | **Total** | **LTDU** | **BUFF** | **COGO** | **HOME** | **COME** | **RBME** | **BLSC** | **SUSC** | **WWSC** |
| LGLMWS | Spring | 2001 | 34,756 | 10 | 9,017 | 8,363 | 0 | 17,355 | 0 | 0 | 0 | 10 |
|  |  | 2010 | 17,230 | 106 | 10,223 | 2,725 | 0 | 1,670 | 2,506 | 0 | 0 | 0 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | **Max:** | **34,756** | **106** | **10,223** | **8,363** | **0** | **17,355** | **2,506** | **0** | **0** | **10** |
|  |  | Avg: | 20,623 | 50 | 6,591 | 4,288 | 0 | 9,040 | 835 | 0 | 0 | 3 |
|  |  | %: |  | 0.00 | 0.37 | 0.21 | 0.00 | 0.37 | 0.05 | 0.00 | 0.00 | 0.00 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |
| LGLMWS | Fall | 2000 | 8,980 | 0 | 4,186 | 48 | 0 | 4,746 | 0 | 0 | 0 | 0 |
|  |  | 2010 | 109,670 | 33,742 | 39,801 | 17,131 | 0 | 474 | 18,441 | 0 | 0 | 80 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | **Max:** | **109,670** | **33,742** | **39,801** | **17,131** | **0** | **4,746** | **18,441** | **0** | **0** | **80** |
|  |  | Ave: | 59,325 | 16,871 | 21,994 | 8,590 | 0 | 2,610 | 9,221 | 0 | 0 | 40 |
|  |  | %: |  | 0.28 | 0.37 | 0.14 | 0.00 | 0.04 | 0.16 | 0.00 | 0.00 | 0.00 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |
| MWS | Winter | 2002 | 4,608 | 123 | 2,452 | 1,424 | 0 | 566 | 42 | 0 | 0 | 2 |
|  |  | 2003 | 5,616 | 68 | 1,959 | 1,467 | 0 | 270 | 1,620 | 57 | 0 | 174 |
|  |  | 2004 | 11,191 | 1,710 | 3,994 | 2,526 | 0 | 2,627 | 325 | 9 | 0 | 0 |
|  |  | 2005 | 11,818 | 140 | 6,800 | 3,770 | 0 | 608 | 378 | 122 | 0 | 0 |
|  |  | 2006 | 14,025 | 0 | 8,469 | 5,112 | 0 | 25 | 419 | 0 | 0 | 0 |
|  |  | 2007 | 3,398 | 0 | 769 | 1,542 | 0 | 217 | 869 | 0 | 0 | 0 |
|  |  | 2008 | 2,523 | 0 | 880 | 1,067 | 0 | 356 | 220 | 0 | 0 | 0 |
|  |  | 2009 | 5,222 | 171 | 1,809 | 2,662 | 0 | 320 | 38 | 0 | 0 | 221 |
|  |  | 2010 | 15,014 | 0 | 4,968 | 4,682 | 0 | 4,619 | 706 | 0 | 0 | 38 |
|  |  | 2011 | 7,724 | 691 | 1,040 | 5,248 | 0 | 238 | 508 | 0 | 0 | 0 |
|  |  | 2012 | 13,172 | 236 | 9,346 | 3,048 | 0 | 181 | 320 | 0 | 0 | 40 |
|  |  | 2013 | 22,922 | 1,026 | 11,104 | 9,650 | 0 | 173 | 883 | 0 | 0 | 87 |
|  |  | 2014 | 10,545 | 2,168 | 828 | 2,845 | 0 | 120 | 4,512 | 0 | 0 | 71 |
|  |  | 2015 | 1,837 | 86 | 391 | 1,069 | 0 | 15 | 277 | 0 | 0 | 0 |
|  |  | 2016 | 17,129 | 68 | 8,160 | 8,390 | 0 | 168 | 343 | 0 | 0 | 0 |
|  |  | 2017 | 19,018 | 24 | 7,169 | 3,502 | 0 | 1,427 | 6,749 | 101 | 0 | 47 |
|  |  | 2018 | 8,342 | 1,077 | 4,143 | 1,165 | 0 | 1,030 | 769 | 0 | 0 | 158 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | **Max:** | **22,922** | **2,168** | **11,104** | **9,650** | **0** | **4,619** | **6,749** | **122** | **0** | **221** |
|  |  | Ave: | 10,241 | 446 | 4,370 | 3,481 | 0 | 762 | 1,116 | 17 | 0 | 49 |
|  |  | %: |  | 0.04 | 0.43 | 0.34 | 0.00 | 0.07 | 0.11 | 0.00 | 0.00 | 0.00 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |
| CBC | Winter | 1997 | 1,973 | 3 | 294 | 906 | 6 | 660 | 104 | 0 | 0 | 0 |
|  |  | 1998 | 10,521 | 2 | 473 | 1,938 | 50 | 7,929 | 124 | 0 | 0 | 5 |
|  |  | 1999 | 8,915 | 4 | 2,183 | 2,024 | 98 | 4,158 | 448 | 0 | 0 | 0 |
|  |  | 2000 | 8,982 | 1 | 606 | 1,805 | 42 | 6,276 | 251 | 0 | 0 | 1 |
|  |  | 2001 | 2,436 | 0 | 591 | 1,601 | 30 | 136 | 77 | 0 | 0 | 1 |
|  |  | 2002 | 4,982 | 49 | 711 | 2,504 | 47 | 1,534 | 133 | 1 | 1 | 2 |
|  |  | 2003 | 2,620 | 2 | 731 | 1,299 | 37 | 474 | 77 | 0 | 0 | 0 |
|  |  | 2004 | 1,147 | 10 | 348 | 406 | 59 | 112 | 212 | 0 | 0 | 0 |
|  |  | 2005 | 2,300 | 4 | 572 | 1,079 | 40 | 452 | 152 | 0 | 0 | 1 |
|  |  | 2006 | 4,720 | 1 | 1,429 | 2,024 | 63 | 899 | 302 | 1 | 0 | 1 |
|  |  | 2007 | 628 | 1 | 248 | 58 | 6 | 175 | 134 | 0 | 0 | 6 |
|  |  | 2008 | 1,461 | 0 | 186 | 617 | 47 | 533 | 78 | 0 | 0 | 0 |
|  |  | 2009 | 10,659 | 5 | 3,721 | 3,801 | 153 | 2,370 | 609 | 0 | 0 | 0 |
|  |  | 2010 | 9,530 | 3 | 3,687 | 4,659 | 92 | 431 | 655 | 0 | 0 | 3 |
|  |  | 2011 | 10,245 | 1 | 3,770 | 4,599 | 133 | 132 | 1,605 | 2 | 0 | 3 |
|  |  | 2012 | 16,504 | 1 | 8,258 | 7,297 | 198 | 176 | 545 | 1 | 1 | 27 |
|  |  | 2013 | 6,983 | 1 | 2,098 | 1,575 | 229 | 1,498 | 1,576 | 0 | 0 | 6 |
|  |  | 2014 | 11,121 | 2 | 5,643 | 3,453 | 233 | 409 | 1,375 | 0 | 1 | 5 |
|  |  | 2015 | 535 | 0 | 314 | 122 | 12 | 5 | 82 | 0 | 0 | 0 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | **Max:** | **16,504** | **49** | **8,258** | **7,297** | **233** | **7,929** | **1,605** | **2** | **1** | **27** |
|  |  | Ave: | 6,119 | 5 | 1,888 | 2,198 | 83 | 1,493 | 449 | 0 | 0 | 3 |
|  |  | %: |  | 0.00 | 0.31 | 0.36 | 0.01 | 0.24 | 0.07 | 0.00 | 0.00 | 0.00 |