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 Ontario** Key Site between 1997 and 2018.

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Survey** | **Season** | **Year** | **Total** | **LTDU** | **BUFF** | **COGO** | **HOME** | **COME** | **RBME** | **BLSC** | **SUSC** | **WWSC** |
| LGLMWS | Spring | 2001 | 68,764 | 35,469 | 16,010 | 4,322 | 0 | 4,148 | 0 | 0 | 6,003 | 2,812 |
|  |  | 2010 | 42,938 | 13,417 | 18,569 | 5,187 | 0 | 2,316 | 1,543 | 2 | 9 | 1,897 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | Max: | 68,764 | 35,469 | 18,569 | 5,187 | 0 | 4,148 | 1,543 | 2 | 6,003 | 2,812 |
|  |  | Avg: | 55,851 | 24,443 | 17,289 | 4,754 | 0 | 3,232 | 771 | 1 | 3,006 | 2,354 |
|  |  | %: |  | 0.44 | 0.31 | 0.09 | 0.00 | 0.06 | 0.01 | 0.00 | 0.05 | 0.04 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |
| Survey | Season | Year | Total | LTDU | BUFF | COGO | HOME | COME | RBME | BLSC | SUSC | WWSC |
| LGLMWS | Fall | 2000 | 68,942 | 29,279 | 17,066 | 3,704 | 0 | 18,888 | 0 | 0 | 5 | 0 |
|  |  | 2010 | 285,899 | 216,332 | 5,881 | 6,360 | 0 | 1,317 | 850 | 7 | 23 | 31,684 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | Max: | 262,453 | 216,332 | 17,066 | 6,360 | 0 | 18,888 | 850 | 7 | 23 | 31,684 |
|  |  | Avg: | 165,697 | 122,805 | 11,474 | 5,032 | 0 | 10,102 | 425 | 3 | 14 | 15,842 |
|  |  | %: |  | 0.74 | 0.07 | 0.03 | 0.00 | 0.06 | 0.00 | 0.00 | 0.00 | 0.10 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |
| MWS | Winter | 2002 | 34,175 | 23,150 | 5,392 | 3,194 | 32 | 1,480 | 586 | 0 | 0 | 341 |
|  |  | 2003 | 55,047 | 34,795 | 8,903 | 6,667 | 0 | 877 | 397 | 875 | 0 | 2,532 |
|  |  | 2004 | 135,231 | 83,386 | 2,781 | 5,986 | 0 | 20,084 | 667 | 425 | 0 | 21,903 |
|  |  | 2005 | 147,422 | 99,180 | 14,794 | 7,901 | 0 | 9,255 | 1,340 | 1,021 | 0 | 13,930 |
|  |  | 2006 | 113,404 | 92,747 | 7,866 | 5,499 | 0 | 1,067 | 1,668 | 454 | 131 | 3,972 |
|  |  | 2007 | 218,404 | 193,230 | 6,931 | 3,461 | 0 | 1,279 | 393 | 0 | 178 | 12,933 |
|  |  | 2008 | 71,466 | 48,030 | 3,449 | 5,605 | 0 | 3,086 | 1,881 | 204 | 12 | 9,199 |
|  |  | 2009 | 125,157 | 117,905 | 1,692 | 3,402 | 0 | 567 | 358 | 38 | 0 | 1,195 |
|  |  | 2010 | 170,499 | 147,741 | 4,665 | 9,077 | 0 | 4,564 | 682 | 5 | 0 | 3,765 |
|  |  | 2011 | 47,545 | 34,333 | 714 | 8,408 | 0 | 926 | 3,010 | 131 | 0 | 24 |
|  |  | 2012 | 56,060 | 38,961 | 245 | 12,376 | 0 | 842 | 419 | 0 | 0 | 3,217 |
|  |  | 2013 | 46,722 | 32,032 | 2,243 | 7,202 | 0 | 1,072 | 2,211 | 99 | 24 | 1,839 |
|  |  | 2014 | 41,563 | 29,114 | 864 | 7,840 | 0 | 639 | 1,386 | 63 | 115 | 1,542 |
|  |  | 2015 | 59,002 | 55,319 | 0 | 2,651 | 0 | 349 | 588 | 0 | 0 | 96 |
|  |  | 2016 | 244,790 | 228,039 | 4,059 | 9,102 | 0 | 1,741 | 154 | 0 | 0 | 1,695 |
|  |  | 2017 | 165,269 | 133,955 | 5,177 | 9,021 | 0 | 3,383 | 3,464 | 291 | 0 | 9,978 |
|  |  | 2018 | 107,747 | 81,211 | 4,359 | 9,413 | 0 | 3,351 | 925 | 137 | 0 | 8,351 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | Max: | 244,790 | 228,039 | 14,794 | 12,376 | 32 | 20,084 | 3,464 | 1,021 | 178 | 21,903 |
|  |  | Avg: | 108,206 | 86,655 | 4,361 | 6,871 | 2 | 3,210 | 1,184 | 220 | 27 | 5,677 |
|  |  | %: |  | 0.80 | 0.04 | 0.06 | 0.00 | 0.03 | 0.01 | 0.00 | 0.00 | 0.05 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Appendix 1 – **Western Lake Ontario** (cont.) | | | | | | | | | | | | |
| **Survey** | **Season** | **Year** | **Total** | **LTDU** | **BUFF** | **COGO** | **HOME** | **COME** | **RBME** | **BLSC** | **SUSC** | **WWSC** |
| CBC | Winter | 1997 | 42,124 | 22,058 | 2,090 | 12,541 | 101 | 3,447 | 620 | 30 | 26 | 1,211 |
|  |  | 1998 | 22,786 | 13,050 | 2,280 | 4,140 | 137 | 1,572 | 1,019 | 18 | 93 | 477 |
|  |  | 1999 | 36,945 | 24,408 | 2,485 | 5,395 | 158 | 3,356 | 393 | 10 | 49 | 691 |
|  |  | 2000 | 21,862 | 11,539 | 1,530 | 4,973 | 120 | 2,449 | 413 | 3 | 80 | 755 |
|  |  | 2001 | 37,212 | 27,590 | 2,232 | 3,629 | 246 | 2,088 | 548 | 18 | 125 | 736 |
|  |  | 2002 | 55,225 | 39,915 | 2,871 | 4,456 | 212 | 4,783 | 746 | 8 | 128 | 2,106 |
|  |  | 2003 | 34,087 | 23,641 | 2,827 | 3,999 | 314 | 1,926 | 712 | 3 | 8 | 657 |
|  |  | 2004 | 29,303 | 16,410 | 2,163 | 4,751 | 285 | 2,894 | 1,188 | 5 | 47 | 1,560 |
|  |  | 2005 | 43,646 | 30,072 | 1,935 | 3,863 | 192 | 4,228 | 1,922 | 17 | 224 | 1,193 |
|  |  | 2006 | 17,678 | 9,493 | 1,476 | 3,491 | 271 | 635 | 1,809 | 2 | 66 | 434 |
|  |  | 2007 | 23,938 | 10,925 | 1,564 | 3,560 | 259 | 3,160 | 2,166 | 7 | 132 | 2,165 |
|  |  | 2008 | 24,472 | 9,222 | 1,459 | 4,632 | 196 | 5,628 | 2,552 | 8 | 22 | 753 |
|  |  | 2009 | 32,291 | 16,614 | 1,578 | 7,886 | 318 | 1,831 | 2,314 | 22 | 181 | 1,547 |
|  |  | 2010 | 27,301 | 13,794 | 1,354 | 3,651 | 171 | 3,850 | 3,661 | 1 | 34 | 785 |
|  |  | 2011 | 36,262 | 25,995 | 1,665 | 3,011 | 386 | 936 | 3,383 | 6 | 146 | 734 |
|  |  | 2012 | 17,387 | 6,464 | 1,231 | 2,302 | 435 | 2,976 | 2,641 | 9 | 67 | 1,262 |
|  |  | 2013 | 15,550 | 7,766 | 1,090 | 2,098 | 196 | 1,402 | 1,678 | 5 | 35 | 1,280 |
|  |  | 2014 | 19,212 | 10,099 | 1,202 | 4,007 | 317 | 1,586 | 1,203 | 87 | 55 | 656 |
|  |  | 2015 | 35,184 | 17,114 | 1,408 | 3,764 | 490 | 349 | 1,913 | 24 | 932 | 9,190 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | Max: | 55,225 | 39,915 | 2,871 | 12,541 | 490 | 5,628 | 3,661 | 87 | 932 | 9,190 |
|  |  | Avg: | 30,130 | 17,693 | 1,813 | 4,534 | 253 | 2,584 | 1,625 | 15 | 129 | 1,484 |
|  |  | %: |  | 0.59 | 0.06 | 0.15 | 0.01 | 0.09 | 0.05 | 0.00 | 0.00 | 0.05 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |