

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 **Eastern Lake Ontario** Key Site between 1997 and 2018.

| Survey | Season | Year | Total   | LTDU    | BUFF   | COGO   | HOME  | COME  | RBME  | BLSC  | SUSC | WWSC   |
|--------|--------|------|---------|---------|--------|--------|-------|-------|-------|-------|------|--------|
| LGLMWS | Spring | 1999 | 117,317 | 95,466  | 6,924  | 8,278  | 125   | 5,442 | 610   | 5     | 5    | 461    |
|        |        | 2009 | 32,377  | 10,465  | 4,646  | 10,406 | 420   | 2,353 | 3,838 | 14    | 0    | 235    |
|        |        | Max: | 117,317 | 95,466  | 6,924  | 10,406 | 420   | 5,442 | 3,838 | 14    | 5    | 461    |
|        |        | Avg: | 74,847  | 52,966  | 5,785  | 9,342  | 273   | 3,898 | 2,224 | 10    | 3    | 348    |
|        |        | %:   |         | 0.71    | 0.08   | 0.12   | 0.00  | 0.05  | 0.03  | 0.00  | 0.00 | 0.00   |
| LGLMWS | Fall   | 1999 | 192,837 | 127,918 | 15,276 | 12,227 | 5,046 | 3,850 | 3,657 | 1,068 | 224  | 23,570 |
|        |        | 2009 | 88,383  | 30,103  | 4,365  | 15,307 | 816   | 7,779 | 3,338 | 3,148 | 87   | 23,440 |
|        |        | Max: | 192,837 | 127,918 | 15,276 | 15,307 | 5,046 | 7,779 | 3,657 | 3,148 | 224  | 23,570 |
|        |        | Avg: | 140,610 | 79,011  | 9,821  | 13,767 | 2,931 | 5,815 | 3,497 | 2,108 | 156  | 23,505 |
|        |        | %:   |         | 0.56    | 0.07   | 0.10   | 0.02  | 0.04  | 0.02  | 0.01  | 0.00 | 0.17   |
| MWS    | Winter | 2002 | 21,588  | 9,460   | 3,853  | 3,776  | 0     | 1,283 | 3,216 | 0     | 0    | 0      |
|        |        | 2003 | 15,483  | 451     | 4,711  | 6,258  | 0     | 3,186 | 874   | 0     | 0    | 3      |
|        |        | 2004 | 19,818  | 4,217   | 6,341  | 5,741  | 0     | 3,519 | 0     | 0     | 0    | 0      |
|        |        | 2005 | 13,058  | 4,764   | 3,599  | 3,595  | 0     | 673   | 416   | 0     | 0    | 10     |
|        |        | 2006 | 31,708  | 21,259  | 1,672  | 7,394  | 0     | 544   | 839   | 0     | 0    | 0      |
|        |        | 2007 | 45,766  | 34,785  | 5,806  | 3,094  | 49    | 1,990 | 41    | 0     | 0    | 0      |
|        |        | 2008 | 89,480  | 75,189  | 5,304  | 5,248  | 0     | 3,056 | 683   | 0     | 0    | 0      |
|        |        | 2009 | 31,557  | 22,582  | 1,891  | 5,403  | 0     | 334   | 1,347 | 0     | 0    | 0      |
|        |        | 2010 | 28,147  | 23,601  | 424    | 1,536  | 0     | 1,820 | 381   | 0     | 0    | 385    |
|        |        | 2011 | 68,833  | 60,278  | 557    | 2,530  | 0     | 3,095 | 1,982 | 3     | 3    | 386    |
|        |        | 2012 | 156,045 | 146,745 | 3,840  | 2,344  | 0     | 2,096 | 113   | 0     | 0    | 907    |
|        |        | 2013 | 113,364 | 88,626  | 10,373 | 2,864  | 0     | 8,412 | 404   | 0     | 0    | 2,685  |
|        |        | 2014 | 58,833  | 51,081  | 2,432  | 4,024  | 0     | 1,004 | 66    | 0     | 0    | 226    |
|        |        | 2015 | 51,042  | 45,568  | 176    | 661    | 0     | 4,540 | 89    | 0     | 0    | 9      |
|        |        | 2016 | 91,531  | 86,376  | 2,452  | 2,019  | 0     | 502   | 0     | 0     | 0    | 183    |
|        |        | 2017 | 105,449 | 93,735  | 1,904  | 4,482  | 0     | 3,938 | 0     | 26    | 0    | 1,364  |
|        |        | 2018 | 107,199 | 103,735 | 111    | 1,704  | 0     | 307   | 0     | 35    | 0    | 1,307  |
|        |        | Max: | 156,045 | 146,745 | 10,373 | 7,394  | 49    | 8,412 | 3,216 | 35    | 3    | 2,685  |
|        |        | Avg: | 61,700  | 51,321  | 3,262  | 3,687  | 3     | 2,371 | 615   | 4     | 0    | 439    |
|        |        | %:   |         | 0.83    | 0.05   | 0.06   | 0.00  | 0.04  | 0.01  | 0.00  | 0.00 | 0.01   |
| CBC    | Winter | 1997 | 44,664  | 39,485  | 700    | 3,025  | 15    | 268   | 14    | 0     | 0    | 1,157  |
|        |        | 1998 | 107,010 | 102,357 | 1,209  | 1,620  | 19    | 202   | 56    | 2     | 1    | 1,544  |
|        |        | 1999 | 146,099 | 136,788 | 1,515  | 3,530  | 83    | 1,122 | 428   | 8     | 4    | 2,621  |
|        |        | 2000 | 53,209  | 48,552  | 713    | 2,453  | 0     | 1,210 | 32    | 3     | 6    | 240    |
|        |        | 2001 | 155,254 | 148,903 | 1,127  | 3,266  | 199   | 222   | 189   | 3     | 1    | 1,344  |
|        |        | 2002 | 15,327  | 7,004   | 953    | 5,704  | 2     | 427   | 1,070 | 3     | 0    | 164    |
|        |        | 2003 | 19,308  | 13,061  | 1,790  | 3,942  | 12    | 255   | 70    | 3     | 5    | 170    |
|        |        | 2004 | 17,441  | 4,716   | 437    | 4,941  | 19    | 7,129 | 111   | 12    | 0    | 76     |
|        |        | 2005 | 20,026  | 14,129  | 217    | 4,596  | 17    | 599   | 370   | 3     | 0    | 95     |

