



# Saint Lawrence Island Bird and Egg Harvests Compilation of Available Data

February 2015

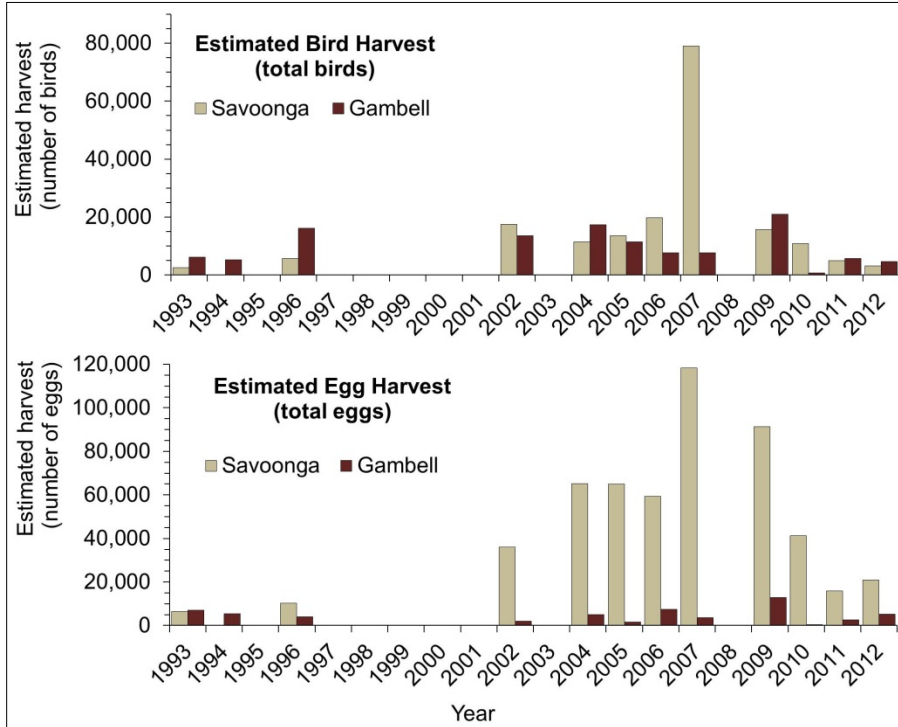


Photo Donna Dewhurst, USFWS

Harvest of murre and their eggs account for a large proportion of bird and egg harvests on St. Lawrence Island.



Photo Lili Naves, ADF&G Subsistence

Harvest surveys are important to document subsistence harvests and help maintain sustainable bird populations.

**Harvest data sources:** [1993, 1994] Wentworth and Seim (1995); [1996] Georgette and Iknokinok (1997); [2002] Kawerak (2004); [2004, 2005, 2007, 2009, 2010] Naves (2014); [2006] Ahmasuk and Trigg (2008); [2011, 2012] Naves and Zeller (2013).

**Note:** In community data review, 2007 bird and egg harvest estimates for Savoonga were considered excessively high and not representing usual harvest levels for this community. 2010 Harvest estimates for Gambell were considered excessively low.

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**Table 1. Gambell bird harvest estimates 1993–2012.**

| Species                 | 1993  | 1994  | 1996   | 2002   | 2004   | 2005   | 2006  | 2007  | 2009   | 2010 | 2011  | 2012  | Mean   |
|-------------------------|-------|-------|--------|--------|--------|--------|-------|-------|--------|------|-------|-------|--------|
| Teal                    | 0     | 0     | 0      | 2      | 0      | 0      | 0     | 0     | 16     | 9    | 2     | 3     | 2      |
| Mallard                 | 0     | 0     | 13     | 0      | 0      | 0      | 33    | 0     | 0      | 11   | 6     | 3     | 5      |
| Northern pintail        | 12    | 30    | 49     | 86     | 512    | 164    | 23    | 34    | 88     | 22   | 62    | 58    | 102    |
| Scoters                 | 2     | 13    | 0      | 4      | 0      | 0      | 3     | 0     | 16     | 5    | 5     | 2     | 4      |
| Common eider            | 262   | 186   | 1,071  | 1,055  | 1,156  | 1,057  | 510   | 955   | 1,441  | 16   | 360   | 260   | 756    |
| King eider              | 59    | 81    | 377    | 271    | 264    | 644    | 76    | 347   | 793    | 57   | 101   | 55    | 279    |
| Spectacled eider        | 0     | 1     | 0      | 176    | 0      | 0      | 69    | 76    | 64     | 0    | 45    | 20    | 41     |
| Steller's eider         | 42    | 0     | 0      | 0      | 0      | 0      | 0     | 0     | 32     | 0    | 4     | 0     | 7      |
| Harlequin duck          | 47    | 26    | 8      | 0      | 0      | 0      | 2     | 0     | 24     | 9    | 4     | 2     | 10     |
| Long-tailed duck        | 60    | 17    | 1,075  | 366    | 4      | 20     | 0     | 24    | 572    | 0    | 50    | 0     | 219    |
| Black brant             | 7     | 29    | 97     | 270    | 227    | 278    | 115   | 155   | 526    | 22   | 45    | 27    | 161    |
| Canada goose            | 1     | 2     | 6      | 22     | 65     | 102    | 46    | 5     | 57     | 5    | 40    | 6     | 32     |
| White-fronted goose     | 0     |       | 0      | 6      | 4      | 12     | 21    | 51    | 32     | 2    | 7     | 7     | 14     |
| Emperor goose           | 0     | 3     | 110    | 1,068  | 1,174  | 707    | 86    | 249   | 967    | 0    | 60    | 128   | 414    |
| Snow goose              | 118   | 160   | 243    | 638    | 926    | 1,143  | 306   | 343   | 1,608  | 6    | 18    | 21    | 502    |
| Swan                    | 5     | 5     | 15     | 62     | 35     | 22     | 3     | 2     | 120    | 0    | 12    | 6     | 26     |
| Sandhill crane          | 3     | 6     | 21     | 237    | 249    | 77     | 12    | 54    | 98     | 0    | 5     | 1     | 69     |
| Short-tailed shearwater | 0     | 0     | 0      | 0      | 0      | 0      | 0     | 0     | 0      | 0    | 0     | 0     | 0      |
| Cormorant               | 500   | 601   | 1,432  | 767    | 1,000  | 623    | 746   | 435   | 1,696  | 200  | 690   | 458   | 813    |
| Black-legged kittiwake  | 21    | 9     | 36     | 0      | 0      | 0      | 0     | 0     | 51     | 0    | 0     | 17    | 12     |
| Large gulls             | 182   | 64    | 472    | 487    | 562    | 25     | 0     | 115   | 223    | 23   | 314   | 128   | 234    |
| Auklets                 | 2,836 | 1,811 | 5,862  | 4,284  | 5,966  | 3,618  | 2,116 | 2,266 | 5,776  | 200  | 2,137 | 2,537 | 3,564  |
| Murres                  | 1,945 | 2,047 | 5,029  | 3,263  | 4,610  | 2,676  | 3,377 | 2,300 | 5,790  | 80   | 1,635 | 908   | 3,053  |
| Guillemots              | 12    | 24    | 0      | 0      | 0      | 5      | 0     | 0     | 496    | 25   | 12    | 0     | 50     |
| Puffins                 | 4     | 0     | 36     | 12     | 2      | 20     | 20    | 0     | 3      | 0    | 0     | 0     | 9      |
| Loons                   | 75    | 173   | 203    | 467    | 568    | 107    | 166   | 262   | 417    | 11   | 27    | 8     | 225    |
| Other birds             | 1     | 0     | 19     | 38     | 0      | 104    | 4     | 5     | 136    | 84   | 42    | 1     | 32     |
| Total birds             | 6,194 | 5,288 | 16,174 | 13,581 | 17,324 | 11,404 | 7,734 | 7,678 | 21,042 | 787  | 5,683 | 4,656 | 10,636 |

**Table 2. Gambell egg harvest estimates 1993–2012.**

| Species                | 1993  | 1994  | 1996  | 2002  | 2004  | 2005  | 2006  | 2007  | 2009   | 2010 | 2011  | 2012  | Mean  |
|------------------------|-------|-------|-------|-------|-------|-------|-------|-------|--------|------|-------|-------|-------|
| Common eider           | 10    | 0     | 174   | 24    | 17    | 238   | 196   | 71    | 790    | 0    | 225   | 31    | 155   |
| King eider             | 6     | 0     | 0     | 24    | 0     | 0     | 20    | 0     | 334    | 0    | 0     | 0     | 35    |
| Spectacled eider       | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0      | 0    | 0     | 0     | 0     |
| Steller's eider        | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 32     | 0    | 0     | 0     | 3     |
| Emperor goose          | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0      | 0    | 24    | 0     | 2     |
| Swan                   | 0     | 0     | 0     | 0     | 4     | 20    | 0     | 0     | 19     | 0    | 0     | 0     | 4     |
| Sandhill crane         | 0     | 0     | 0     | 0     | 0     | 15    | 0     | 0     | 25     | 0    | 5     | 0     | 4     |
| Cormorant              | 0     | 0     | 34    | 0     | 0     | 0     | 0     | 0     | 0      | 0    | 0     | 0     | 3     |
| Mew gull               | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 175    | 0    | 0     | 0     | 16    |
| Black-legged kittiwake | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0      | 0    | 0     | 0     | 0     |
| Large gulls            | 0     | 0     | 0     | 0     | 0     | 35    | 224   | 0     | 318    | 0    | 57    | 0     | 70    |
| Auklets                | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 159    | 0    | 0     | 0     | 14    |
| Murres                 | 7,027 | 5,372 | 3,730 | 1,914 | 4,954 | 1,280 | 6,829 | 3,588 | 10,541 | 388  | 2,174 | 5,165 | 4,489 |
| Loons                  | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 181    | 0    | 0     | 0     | 16    |
| Other eggs             | 0     | 0     | 0     | 0     | 0     | 0     | 163   | 0     | 321    | 0    | 36    | 0     | 18    |
| Total eggs             | 7,043 | 5,372 | 3,938 | 1,962 | 4,984 | 1,588 | 7,439 | 3,659 | 12,935 | 388  | 2,681 | 5,196 | 4,879 |

Harvest data sources: [1993, 1994] Wentworth and Seim (1995); [1996] Georgette and Iknokinok (1997); [2002] Kawerak (2004); [2004, 2005, 2007, 2009, 2010] Naves (2014); [2006] Ahmasuk and Trigg (2008); [2011, 2012] Naves and Zeller (2013).

Note: 2010 Harvest estimates not included in Gambel bird and egg 1993–2012 mean, see note on front page.

**Table 3. Savoonga bird harvest estimates 1993–2012.**

| Species                 | 1993  | 1996  | 2002   | 2004   | 2005   | 2006   | 2007   | 2009   | 2010   | 2011  | 2012  | Mean   |
|-------------------------|-------|-------|--------|--------|--------|--------|--------|--------|--------|-------|-------|--------|
| Teal                    | 0     | 0     | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0     | 0     | 0      |
| Mallard                 | 0     | 0     | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0     | 0     | 0      |
| Northern pintail        | 0     | 0     | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0     | 7     | 1      |
| Scoters                 | 0     | 0     | 25     | 0      | 0      | 94     | 0      | 40     | 0      | 24    | 25    | 21     |
| Common eider            | 32    | 159   | 627    | 377    | 1,435  | 937    | 3,581  | 704    | 501    | 183   | 157   | 511    |
| King eider              | 8     | 0     | 510    | 118    | 370    | 603    | 2,818  | 82     | 52     | 38    | 26    | 181    |
| Spectacled eider        | 9     | 0     | 289    | 5      | 67     | 290    | 788    | 64     | 45     | 15    | 25    | 81     |
| Steller's eider         | 0     | 0     | 5      | 0      | 12     | 23     | 0      | 0      | 19     | 13    | 17    | 9      |
| Harlequin duck          | 4     | 0     | 24     | 240    | 1,195  | 229    | 1,990  | 9      | 44     | 5     | 4     | 175    |
| Long-tailed duck        | 0     | 126   | 24     | 5      | 0      | 9      | 625    | 0      | 169    | 5     | 0     | 34     |
| Black brant             | 8     | 0     | 562    | 181    | 0      | 398    | 836    | 62     | 4      | 53    | 49    | 132    |
| Canada goose            | 0     | 6     | 28     | 0      | 148    | 27     | 8      | 0      | 0      | 34    | 0     | 24     |
| White-fronted goose     | 0     | 0     | 0      |        | 0      | 0      | 0      | 0      | 0      | 1     | 0     | 0      |
| Emperor goose           | 12    | 0     | 544    | 227    | 421    | 352    | 934    | 177    | 76     | 44    | 62    | 192    |
| Snow goose              | 15    | 48    | 961    | 156    | 402    | 749    | 956    | 374    | 32     | 181   | 7     | 293    |
| Swan                    | 0     | 6     | 30     | 73     | 128    | 4      | 611    | 107    | 0      | 5     | 0     | 35     |
| Sandhill crane          | 0     | 0     | 37     | 20     | 0      | 4      | 23     | 9      | 0      | 6     | 9     | 9      |
| Short-tailed shearwater | 0     | 0     | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 17    | 48    | 7      |
| Cormorant               | 494   | 853   | 3,289  | 2,053  | 2,279  | 2,807  | 10,423 | 3,970  | 2,172  | 899   | 452   | 1,927  |
| Black-legged kittiwake  | 4     | 13    | 773    | 664    | 2,344  | 723    | 2,347  | 43     | 3      | 9     | 8     | 458    |
| Large gulls             | 94    | 270   | 77     | 83     | 880    | 301    | 1,161  | 258    | 181    | 171   | 99    | 241    |
| Auklets                 | 470   | 536   | 1,637  | 616    | 1,164  | 2,502  | 14,491 | 2,373  | 1,052  | 567   | 233   | 1,115  |
| Murres                  | 1,301 | 3,490 | 6,275  | 5,646  | 1,850  | 7,836  | 33,530 | 6,547  | 3,363  | 2,541 | 1,676 | 4,053  |
| Guillemots              | 0     | 0     | 903    | 410    | 0      | 413    | 0      | 520    | 3,005  | 22    | 13    | 529    |
| Puffins                 | 0     | 0     | 0      | 18     | 0      | 0      | 0      | 0      | 0      | 0     | 0     | 2      |
| Loons                   | 110   | 223   | 850    | 487    | 801    | 1,462  | 3,748  | 269    | 46     | 124   | 171   | 454    |
| Other birds             | 12    | 0     | 29     | 124    | 0      | 12     | 124    | 15     | 42     | 25    | 8     | 27     |
| Total birds             | 2,573 | 5,730 | 17,499 | 11,503 | 13,496 | 19,775 | 78,994 | 15,623 | 10,806 | 4,982 | 3,096 | 10,508 |

**Table 4. Savoonga egg harvest estimates 1993–2012.**

| Species                | 1993  | 1996   | 2002   | 2004   | 2005   | 2006   | 2007    | 2009   | 2010   | 2011   | 2012   | Mean   |
|------------------------|-------|--------|--------|--------|--------|--------|---------|--------|--------|--------|--------|--------|
| Common eider           | 0     | 0      | 0      | 0      | 0      | 0      | 0       | 0      | 3      | 52     | 1      | 6      |
| King eider             | 0     | 0      | 125    | 0      | 0      | 0      | 51      | 23     | 0      | 0      | 0      | 15     |
| Spectacled eider       | 0     | 0      | 17     | 0      | 0      | 0      | 0       | 0      | 0      | 0      | 0      | 2      |
| Steller's eider        | 0     | 0      | 0      | 0      | 0      | 0      | 0       | 0      | 0      | 0      | 0      | 0      |
| Emperor goose          | 0     | 0      | 0      | 0      | 0      | 0      | 28      | 0      | 0      | 0      | 0      | 0      |
| Swan                   | 0     | 0      | 0      | 0      | 0      | 0      | 0       | 0      | 0      | 0      | 10     | 1      |
| Sandhill crane         | 0     | 0      | 0      | 0      | 0      | 0      | 0       | 0      | 0      | 0      | 0      | 0      |
| Cormorant              | 0     | 0      | 0      | 0      | 0      | 1,434  | 0       | 0      | 0      | 0      | 0      | 143    |
| Mew gull               | 0     | 0      | 0      | 52     | 0      | 0      | 0       | 0      | 0      | 0      | 0      | 5      |
| Black-legged kittiwake | 0     | 0      | 73     | 0      | 0      | 0      | 0       | 0      | 0      | 0      | 34     | 11     |
| Large gulls            | 0     | 0      | 0      | 156    | 0      | 0      | 0       | 0      | 0      | 54     | 32     | 24     |
| Auklets                | 15    | 0      | 0      | 116    | 0      | 0      | 0       | 41     | 0      | 0      | 12     | 17     |
| Murres                 | 6,517 | 10,286 | 35,836 | 64,754 | 65,077 | 57,994 | 118,281 | 91,337 | 41,140 | 15,750 | 20,746 | 40,944 |
| Loons                  | 0     | 0      | 0      | 8      | 0      | 0      | 0       | 0      | 0      | 0      | 0      | 1      |
| Other eggs             | 0     | 0      | 0      | 10     | 0      | 0      | 0       | 0      | 0      | 0      | 0      | 1      |
| Total eggs             | 6,532 | 10,286 | 36,051 | 65,096 | 65,077 | 59,428 | 118,360 | 91,401 | 41,143 | 15,856 | 20,835 | 41,171 |

Harvest data sources: [1993, 1994] Wentworth and Seim (1995); [1996] Georgette and Iknokinok (1997); [2002] Kawerak (2004); [2004, 2005, 2007, 2009, 2010] Naves (2014); [2006] Ahmasuk and Trigg (2008); [2011, 2012] Naves and Zeller (2013).

Note: 2007 Harvest estimates not included in Savoonga bird and egg 1993–2012 mean, see note on front page.

## Birds that may be harvested or mentioned in harvest surveys on St. Lawrence Island

(Saint Lawrence Island/Siberian Yupik names shown in red)

| Ducks   |  |
|---|--|
| wigeons (Eurasian wigeon, American wigeon):   | mallard:   |
| northern pintail: <b>ngiikaq</b> , <b>nqiikaaq</b> , <b>quulvekesiiq</b>  | northern shoveler: <b>pekutaghraak</b>   |
| common eider: <b>metghaq</b> (pik), <b>gatepak</b> , <b>tagrapak</b> , <b>uskulla</b>   | king eider: <b>qengalek</b>  |
| Steller's eider: <b>aglekeseqaq</b>   | spectacled eider: <b>iyegaatelek</b> , <b>livghaan</b>   |
| common goldeneye:   | harlequin duck: <b>qagingik</b>  |
| scoters (black scoter, white-winged scoter): <b>metghasaak</b>  | long-tailed duck: <b>aahaangwliq</b> , <b>uyangsaq</b> , <b>kangghwaak</b> (female), <b>ugeyiighaq</b> (male)  |
| greater scaup:  | red-breasted merganser: <b>aqfasuk</b> (also grebe?), <b>iikaaq</b>  |
| Geese, Swan, Crane, Owl, Ptarmigan  |  |
| brant: <b>teghqillkak</b> , <b>qefteq</b>   | emperor goose: <b>leglhleq</b>   |
| Canada goose: <b>qefteq</b> , <b>teghqilkagpak</b>  | snow goose: <b>kaanguq</b> , <b>kaangu</b>   |
| greater white-fronted goose: <b>wilwitu</b>   | sandhill crane: <b>satelgaq</b>  |
| tundra swan: <b>quuk</b>  | ptarmigan: <b>aqergiiq</b>   |
| snowy owl: <b>anipa</b>   |  |
| Seabirds  |  |
| northern fulmar: <b>aghqulluk</b>   | short-tailed shearwater: <b>kaputaghaq</b>   |
| pelagic cormorant: <b>ngelqaq</b>   | Arctic tern: <b>tekeyiighaq</b>  |
| black-legged kittiwake: <b>qaqsungiq</b>  | Sabine's gull: <b>nasallenguq</b>  |
| Ross's gull: <b>kulusim qawaaga</b> (iceberg, polar ice bird)   | mew gull: <b>naghuya</b> , <b>ungazim naghuyangi</b> (other gulls?)  |
| large gulls: <b>naghuyapik</b> (glaucous gull?), <b>ugraaq</b> (herring gull), (glaucous-winged gull?)  | auklets: <b>amaaghaq</b> (auklet chick), <b>sukilpaq</b> (crested auklet), <b>akmaliighaq</b> (least auklet), <b>suklugraq</b> (parakeet auklet), (rhinoceros auklet?) |
| murre (common murre, thick-billed murre): <b>alpa</b> , <b>kuwaaq</b> , <b>aqevgaghnak</b> , <b>alpapiget</b> , <b>alpapik</b> , <b>quwaaghet</b>   | guillemots (pigeon guillemot, black guillemot): <b>samseghaghaq</b> (adult), <b>sipelaaghaq</b> (young)  |
| dovekie: <b>quqiiq</b>  | puffins: <b>pagrugaq</b> (tufted puffin), <b>quprughaq</b> (horned puffin)   |
| Shorebirds  |  |
| large shorebirds with long beak: <b>sugtuvak</b> (whimbrel?, curlew?, bar-tailed godwit?, long-billed dowitcher?)   | large shorebirds: <b>turiighpak</b> (Pacific golden plover?, American golden plover?, black-bellied plover?)   |
| turnstones (ruddy turnstone, black turnstone): <b>sagelmak</b>  | phalaropes (red phalarope, red-necked phalarope): <b>qulighya</b> , <b>sughmeghaq</b>  |
| small, other shorebirds: <b>turiighaq</b> ; <b>teraateriiq</b> (dunlin?, pectoral sandpiper?), <b>qalmesam teraateriiq</b> (rock sandpiper?), <b>iglagllengiiq</b> (western sandpiper?), <b>qalmesam qawaaga</b> (gray-tailed tattler?, wandering tattler?) |  |
| Loons and Grebes: <b>yuwayu</b> (loon, small loon, breeding plumage), <b>yuwayaaghaq</b> (nonbreeding plumage, juvenile)  |  |
| red-throated loon: <b>eghqaq</b> (breeding plumage)   | Pacific loon, Arctic loon: <b>melqupak</b> (breeding plumage)  |
| yellow-billed loon: <b>nangqwalek</b> (breeding plumage), <b>nangqwalgaaghaq</b> (nonbreeding plumage, juvenile). Also used for the common loon, which is locally rather uncommon.  | grebes (red-necked grebe, horned grebe): <b>aqfasuget</b> , <b>aqfasuq</b> (also merganser?)   |

Sources: Ehrlich et al. (1993), Paige et al. (1996), Romanenko et al. (1997), Badten et al. (2008), Tahbone and Trigg (2011), Naves and Zeller (2013).

Note: this list did not intend to represent all bird species occurring on St. Lawrence Island. For comments, corrections, and updates to this list, please see contact information at bottom of the front page.