

Progress Notes contain *interim* data and conclusions and are presented as a service to other wildlife biologists and agencies.

Aussi disponible en français

No. 52, November 1975

Harvest of migratory game birds other than waterfowl in Canada 1974

By F.G. Cooch¹ and H.A. Raible¹

Introduction

The Canada Migratory Game Bird Hunting Permit is required to hunt Coots, Common Snipe, Woodcock, Sandhill Cranes, Rails, Bandtailed Pigeons and Mourning Doves, as well as ducks and geese. The apparent increase in hunter interest in species other than waterfowl, especially in the United States, makes it desirable to report separately on the annual harvest and recreation provided by these species.

Survey scheme

Information on the harvest of non-waterfowl is derived from the National Migratory Game Bird Harvest Survey. The design of that survey was described by Cooch *et al.* (1973). There is no separate survey for non-waterfowl, and we shall not be dealing in this report with the harvest of rails or gallinules. Not all the species included in this report are available nationally. For example, there are legal seasons for Woodcock in Prince Edward Island, Nova Scotia, New Brunswick, Quebec and Ontario; for Sandhill Cranes in restricted parts of Manitoba and Saskatchewan. The hunting of Bandtailed Pigeons and Mourning Doves is confined to certain parts of British Columbia. Only Snipe and Coots are available throughout Canada. Data on the harvest of Coots (*Fulica americana*) are confusing because in the Atlantic Provinces the name coot is also applied to sea ducks such as scoters. Coots are uncommon there but sea ducks (scoters) are relatively common, so we decided to place coots in the sea duck category in the Atlantic Provinces. The national harvest of Coots is therefore really slightly higher than indicated and that of sea ducks is inflated by the inclusion in the sample of an unknown but small proportion of true Coots.

The estimate of active hunters for non-waterfowl is derived from question 8 of the Harvest Survey questionnaire but this question gives no means of estimating the number of active hunters by species within the non-waterfowl category. Successful hunters are determined by answers to question 9 of the questionnaire. Consequently there is no way at present of calculating the number of people who hunted a particular species. Data exist only for the number of hunters who were successful in killing and retrieving one or more of a particular species.

Since the National Harvest Survey is designed to yield figures on the harvest of waterfowl, the numbers and method of distribution of questionnaires are based on that requirement. Consequently the results for non-waterfowl are based on a much smaller sample and subsequent response. For

example, the estimates of national totals of the harvest of ducks are based on returns by 9,548 active hunters and 7,511 successful hunters, whereas for Mourning Doves (the most extreme example) only 6 respondents reported killing at least one. Under such a sampling scheme the standard error associated with the final estimate of total harvest will normally be very great. Standard errors have been computed for migratory game birds other than waterfowl for results of the 1974/75 survey.

Results

Table 1 is basically a summary of national totals by species for the period 1969-74 inclusive. The numbers in parentheses for 1972, 1973 and 1974 are the sample available nationally on which the estimates for those years are based.

Tables 2-7 give the estimate of harvest, numbers of successful hunters and average kill per successful hunter by species, province and zone.

The decline over the period 1969-74 inclusive in estimated harvest of Mourning Doves and Bandtailed Pigeons in British Columbia is significant with $r = -0.616$ and -0.944 respectively. The same is true for the harvest of Coots calculated on a national basis for the same period, with $r = -0.608$. In this species, however, the decline is restricted to Ontario and Quebec, whereas harvest in western Canada has been relatively stable. The correlation coefficient for the decrease in eastern Canada is $r = -0.873$.

In the United States the estimated harvest of Woodcock increased from about 1,000,000 in 1968 to 1,400,000 in 1973. No similar increase has been detected in Canada, where the kill of Snipe and Woodcock has not varied more than 14% from 1969 to 1973 (if one excludes 1970 when all of New Brunswick was closed to Woodcock hunting and 1971 when part of that province was closed, because of high DDT levels).

The decline in harvest estimates of Mourning Doves and Bandtailed Pigeons referred to earlier continued in the 1974-75 hunting season. The decrease in harvest of Coots apparently reversed itself nationally but in eastern Canada the decline continued. Most of the increase came from Zone 3 of Saskatchewan. The harvest of this relatively abundant species continues to be very low in relation to the numbers available. This may be due to their reputation for being unpalatable.

The estimated harvest of Sandhill Cranes in 1974 in the National Harvest Survey was 6,700, the highest recorded to date. However, because of a need for more precise data, a Special Sandhill Crane Harvest Survey was conducted in Saskatchewan in March 1975 in addition to the National Survey. The results were illuminating. Whereas the National Survey yielded an estimated harvest of $6,641 \pm 2,184$ Sandhill Cranes in Saskatchewan, the special survey yielded

¹CWS, Ottawa, Ontario K1A 0H3.



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3,142 ± 307. The Special Sandhill Crane Survey will be expanded and repeated in 1975-76. The difference in results obtained from the two surveys can be attributed almost entirely to differences in sampling intensity. In the National Survey, which is the basis of this Progress Note, extrapolation factors (from sample to universe) vary according to sub-sample, from 28.435 to 73.304. Both the National and Special Surveys received a response from a single hunter who reported killing 22 Sandhill Cranes. In the National Survey this value was extrapolated to represent 1,238 cranes, whereas in the Special Survey, with an extrapolation factor of only 7.38, the estimate was 162. Where there is a wide range of reported kill by individuals, small samples often produce by chance large coefficients of variation in results.

Table 8 provides an estimate of the number of man-days of recreation enjoyed by Canadian hunters in pursuit of non-waterfowl. Because hunters may take birds of more than one species category a precise estimate of the number of persons hunting these migratory game birds is not available. Our

Table 1
National totals of harvest of migratory game birds other than waterfowl

| Species | 1969 | 1970 | 1971 | 1972 | 1973 | 1974 | 1969-73 (average) |
|----------------------|----------------|----------------|----------------|------------------|------------------|------------------|----------------------|
| Coot | 60,955 | 67,316 | 61,345 | 27,471 [199] | 42,294 [223] | 48,931 [249] | 51,876 |
| Woodcock | 116,686 | *97,768 | †108,061 | 121,824 [458] | 108,897 [430] | 113,297 [448] | 110,647 |
| Snipe | 93,655 | 102,500 | 112,129 | 114,385 [558] | 86,242 [480] | 107,420 [568] | 101,782 |
| Crane | 4,444 | 5,344 | 2,943 | 2,143 [26] | 4,275 [22] | 6,699 [29] | 3,830 |
| Doves | 3,807 | 3,738 | 3,789 | 5,133 [17] | 1,156 [5] | 1,593 [6] | 3,293 |
| Pigeons | 11,437 | 11,375 | 9,094 | 9,458 [26] | 8,211 [15] | 5,822 [15] | 9,915 |
| Total harvest | 290,984 | 288,041 | 297,361 | 280,414 | 251,075 | 283,762 | 281,575 |

*Season closed in New Brunswick.

†Season closed in part of New Brunswick.

best estimates are that in 1974-75 no more than 72,486 hunters were active, 42,567 were successful, and that they harvested 283,762 birds. This represents 16.7% of potential hunters. An alternative way of describing their activities is to say that about one-fifth of all active migratory game bird hunters spent at least part of one day hunting species other than waterfowl.

This group of birds provides some of the most challenging sport available to Canadian hunters and future trends of the populations providing that recreation must be closely watched.

References

Cooch, F.G., G.W. Kaiser, and L. Wight. 1973. Report on 1972 sales of the Canada migratory game bird hunting permit, migratory game bird harvest and hunter activity. Progr. Note No. 34. 10 p.

Table 2
Harvest of Woodcock

| Province | Survey stratum | Successful hunters | | | Birds harvested | | | Birds per hunter | | |
|----------|----------------|--------------------|--------|--------|-----------------|---------|---------|------------------|-------|-------|
| | | 1972 | 1973 | 1974 | 1972 | 1973 | 1974 | 1972 | 1973 | 1974 |
| PEI | 01 | 58 | 36 | 129 | 135 | 60 | 559 | 2.33 | 1.65 | 4.31 |
| NS | 01 | 491 | 443 | 682 | 5,429 | 1,669 | 2,933 | 11.06 | 3.76 | 4.50 |
| | 02 | 358 | 588 | 584 | 2,043 | 3,569 | 5,595 | 5.71 | 6.07 | 9.57 |
| | Total | 849 | 1,032 | 1,236 | 7,472 | 5,238 | 8,528 | 8.80 | 5.08 | 6.90 |
| NB | 01 | 833 | 1,027 | 936 | 7,344 | 10,328 | 10,134 | 8.82 | 10.05 | 10.82 |
| | 02 | 260 | 223 | 476 | 2,885 | 1,619 | 3,974 | 11.10 | 7.25 | 8.33 |
| | Total | 1,093 | 1,250 | 1,413 | 10,229 | 11,947 | 14,109 | 9.36 | 9.55 | 9.98 |
| Que. | 01 | 4,202 | 5,499 | 4,642 | 28,313 | 30,345 | 23,956 | 6.74 | 5.52 | 5.16 |
| | 02 | 791 | 773 | 673 | 4,370 | 3,406 | 5,137 | 5.52 | 4.41 | 7.63 |
| | Total | 5,038 | 6,272 | 5,315 | 33,134 | 33,751 | 29,094 | 6.58 | 5.38 | 5.47 |
| Ont. | 01 | 4,167 | 4,797 | 4,703 | 35,817 | 25,486 | 30,168 | 8.59 | 5.31 | 6.41 |
| | 02 | 5,617 | 5,292 | 4,240 | 30,055 | 27,283 | 24,776 | 5.35 | 5.16 | 5.84 |
| | 03 | 977 | 1,031 | 1,006 | 4,544 | 5,130 | 6,063 | 4.65 | 4.97 | 6.02 |
| | Total | 10,902 | 11,121 | 9,950 | 70,854 | 57,901 | 61,007 | 6.50 | 5.21 | 6.13 |
| Canada | Total | 17,940 | 19,711 | 18,043 | 121,824 | 108,897 | 113,297 | 6.79 | 5.52 | 6.28 |

Table 3
Harvest of Common Snipe

| Province | Survey stratum | Successful hunters | | | Birds harvested | | | Birds per hunter | | |
|----------|----------------|--------------------|--------|--------|-----------------|--------|---------|------------------|------|-------|
| | | 1972 | 1973 | 1974 | 1972 | 1973 | 1974 | 1972 | 1973 | 1974 |
| Nfld. | 01 | 2,982 | 3,479 | 3,290 | 18,452 | 17,379 | 15,633 | 6.19 | 4.99 | 4.75 |
| | 02 | 123 | 211 | 165 | 414 | 1,230 | 1,839 | 3.37 | 5.82 | 11.12 |
| | Total | 3,105 | 3,691 | 3,456 | 18,866 | 18,610 | 17,472 | 6.08 | 5.04 | 5.06 |
| PEI | 01 | 147 | 234 | 254 | 842 | 905 | 940 | 5.73 | 3.86 | 3.70 |
| NS | 01 | 448 | 450 | 656 | 2,239 | 1,980 | 4,018 | 5.00 | 4.40 | 6.12 |
| | 02 | 499 | 670 | 813 | 1,867 | 2,977 | 5,002 | 3.74 | 4.44 | 6.15 |
| | Total | 947 | 1,120 | 1,469 | 4,106 | 4,957 | 9,021 | 4.34 | 4.42 | 6.14 |
| NB | 01 | 359 | 517 | 355 | 1,279 | 2,489 | 1,762 | 3.56 | 4.81 | 4.96 |
| | 02 | 136 | 121 | 200 | 721 | 837 | 877 | 5.30 | 6.92 | 4.38 |
| | Total | 495 | 638 | 555 | 2,000 | 3,326 | 2,639 | 4.04 | 5.21 | 4.75 |
| Que. | 01 | 4,261 | 4,991 | 6,283 | 21,277 | 31,146 | 40,649 | 4.99 | 6.24 | 6.47 |
| | 02 | 1,691 | 1,149 | 1,014 | 7,697 | 6,889 | 5,977 | 4.55 | 5.99 | 5.89 |
| | Total | 5,952 | 6,140 | 7,298 | 28,978 | 38,035 | 46,626 | 4.87 | 6.19 | 6.39 |
| Ont. | 01 | 517 | 904 | 970 | 2,651 | 2,140 | 3,358 | 5.13 | 2.37 | 3.46 |
| | 02 | 2,243 | 1,343 | 2,643 | 10,645 | 2,968 | 9,430 | 4.75 | 2.21 | 3.57 |
| | 03 | 350 | 398 | 481 | 1,539 | 932 | 1,310 | 4.40 | 2.34 | 2.72 |
| | Total | 3,110 | 2,645 | 4,095 | 14,835 | 6,040 | 14,099 | 4.77 | 2.28 | 3.44 |
| Man. | 01 | 458 | 308 | 381 | 1,452 | 748 | 1,619 | 3.17 | 2.42 | 4.25 |
| | 02 | 87 | 230 | 216 | 519 | 1,357 | 2,389 | 5.97 | 5.88 | 11.03 |
| | Total | 545 | 539 | 597 | 1,971 | 2,105 | 4,008 | 3.62 | 3.90 | 6.71 |
| Sask. | 01 | 198 | 406 | 199 | 655 | 1,518 | 1,278 | 3.31 | 3.73 | 6.41 |
| | 02 | 296 | 164 | 57 | 1,554 | 327 | 86 | 5.25 | 1.98 | 1.50 |
| | 03 | 178 | 434 | 75 | 492 | 1,272 | 453 | 2.76 | 2.93 | 6.00 |
| | Total | 672 | 1,006 | 332 | 2,701 | 3,118 | 1,819 | 4.02 | 3.10 | 5.46 |
| Alta. | 01 | 545 | 439 | 659 | 1,617 | 1,778 | 3,811 | 2.97 | 4.05 | 5.78 |
| | 02 | 1,144 | 605 | 937 | 4,123 | 3,094 | 4,292 | 3.60 | 5.11 | 4.58 |
| | Total | 1,689 | 1,044 | 1,597 | 5,740 | 4,873 | 8,103 | 3.40 | 4.66 | 5.07 |
| BC | 01 | 355 | 148 | 169 | 2,570 | 579 | 1,015 | 7.24 | 3.89 | 6.01 |
| | 02 | 961 | 675 | 438 | 9,397 | 3,693 | 1,678 | 9.78 | 5.47 | 3.83 |
| | Total | 1,316 | 824 | 607 | 11,967 | 4,273 | 2,693 | 9.09 | 5.18 | 4.43 |
| Canada | Total | 17,978 | 17,881 | 20,260 | 114,385 | 86,242 | 107,420 | 6.27 | 4.82 | 5.30 |

Table 4
Harvest of Coots

| Province | Survey stratum | Successful hunters | | | Birds harvested | | | Birds per hunter | | |
|----------|----------------|--------------------|--------|--------|-----------------|--------|--------|------------------|------|-------|
| | | 1972 | 1973 | 1974 | 1972 | 1973 | 1974 | 1972 | 1973 | 1974 |
| Que. | 01 | 1,827 | 2,307 | 1,731 | 4,674 | 10,799 | 3,988 | 2.56 | 4.68 | 2.30 |
| | 02 | 199 | 261 | 482 | 967 | 918 | 2,309 | 4.86 | 3.52 | 4.78 |
| | Total | 2,026 | 2,568 | 2,214 | 5,641 | 11,718 | 6,298 | 2.78 | 4.56 | 2.84 |
| Ont. | 01 | 1,279 | 1,282 | 1,601 | 3,464 | 5,858 | 4,409 | 2.71 | 4.57 | 2.75 |
| | 02 | 904 | 1,260 | 1,225 | 2,139 | 2,807 | 4,935 | 2.37 | 2.23 | 4.03 |
| | 03 | 684 | 674 | 419 | 2,285 | 3,080 | 2,678 | 3.34 | 4.57 | 6.39 |
| | Total | 2,867 | 3,217 | 3,245 | 7,888 | 11,746 | 12,022 | 2.75 | 3.64 | 3.70 |
| Man. | 01 | 453 | 417 | 951 | 1,595 | 1,426 | 8,350 | 3.52 | 3.42 | 3.52 |
| | 02 | 67 | 150 | 198 | 288 | 811 | 1,306 | 4.30 | 5.39 | 6.57 |
| | Total | 520 | 567 | 1,150 | 1,883 | 2,238 | 4,656 | 3.62 | 3.94 | 4.05 |
| Sask. | 01 | 357 | 571 | 764 | 1,620 | 2,091 | 384 | 4.54 | 3.66 | 5.04 |
| | 02 | 434 | 507 | 448 | 2,667 | 3,278 | 3,216 | 6.15 | 6.46 | 7.17 |
| | 03 | 688 | 428 | 941 | 2,236 | 807 | 10,719 | 3.25 | 1.89 | 11.39 |
| | Total | 1,479 | 1,507 | 2,154 | 6,523 | 6,177 | 17,785 | 4.41 | 4.10 | 8.26 |
| Alta. | 01 | 376 | 947 | 797 | 944 | 2,927 | 2,614 | 2.51 | 3.09 | 3.28 |
| | 02 | 558 | 1,019 | 718 | 1,564 | 5,145 | 2,861 | 2.80 | 5.05 | 3.98 |
| | Total | 934 | 1,966 | 1,516 | 2,508 | 8,073 | 5,476 | 2.69 | 4.11 | 3.61 |
| BC | 01 | 422 | 338 | 122 | 2,655 | 2,076 | 391 | 6.29 | 6.14 | 3.19 |
| | 02 | 162 | 85 | 377 | 636 | 266 | 2,300 | 3.93 | 3.13 | 6.10 |
| | Total | 584 | 423 | 499 | 3,291 | 2,342 | 2,691 | 5.64 | 5.53 | 5.39 |
| Canada | Total | 8,410 | 10,248 | 10,778 | 27,471 | 42,294 | 48,931 | 3.27 | 4.13 | 4.48 |

Table 5
Harvest of Sandhill Cranes

| Province | Survey stratum | Successful hunters | | | Birds harvested | | | Average per hunter | | |
|----------|----------------|--------------------|------|-------|-----------------|-------|-------|--------------------|-------|------|
| | | 1972 | 1973 | 1974 | 1972 | 1973 | 1974 | 1972 | 1973 | 1974 |
| Man. | 01 | 113 | 56 | 58 | 113 | 683 | 58 | 1.00 | 12.00 | 1.00 |
| Sask. | 01 | 277 | 192 | 231 | 910 | 1,649 | 918 | 3.29 | 8.59 | 3.97 |
| | 02 | 39 | 63 | 50 | 39 | 63 | 151 | 1.00 | 1.00 | 3.00 |
| | 03 | 569 | 654 | 900 | 1,081 | 1,878 | 5,571 | 1.90 | 2.87 | 6.19 |
| | Total | 885 | 909 | 1,181 | 2,030 | 3,592 | 6,641 | 2.29 | 3.95 | 5.62 |
| Canada | Total | 998 | 965 | 1,239 | 2,143 | 4,275 | 6,699 | 2.15 | 4.43 | 5.41 |

Table 6
Harvest of Mourning Doves

| | | | | | | | | | | |
|--------|-------|-----|-----|-----|-------|-------|-------|-------|------|------|
| BC | 01 | 290 | 79 | 106 | 3,361 | 237 | 943 | 11.59 | 3.00 | 8.89 |
| | 02 | 362 | 213 | 86 | 1,772 | 919 | 649 | 4.90 | 4.30 | 7.55 |
| | Total | 652 | 292 | 192 | 5,133 | 1,156 | 1,593 | 7.87 | 3.95 | 8.29 |
| Canada | Total | 652 | 292 | 192 | 5,133 | 1,156 | 1,593 | 7.87 | 3.95 | 8.29 |

Table 7
Harvest of Bandtailed Pigeons

| | | | | | | | | | | |
|--------|-------|-------|-----|-----|-------|-------|-------|------|-------|------|
| BC | 01 | 0 | 34 | 164 | 0 | 34 | 492 | 0 | 1.00 | 2.99 |
| | 02 | 1,535 | 727 | 574 | 9,458 | 8,176 | 5,329 | 6.16 | 11.23 | 9.27 |
| | Total | 1,535 | 762 | 739 | 9,458 | 8,211 | 5,822 | 6.16 | 10.77 | 7.87 |
| Canada | Total | 1,535 | 762 | 739 | 9,458 | 8,211 | 5,822 | 6.16 | 10.77 | 7.87 |

Table 8
Recreation activity provided by the hunting of non-waterfowl using samples A, B, D and E, 1974

| Province | Survey stratum | Sales | Active hunters | Successful hunters | Harvest | Recreation days | S. Bag* | D. Bag | R. Days |
|----------|----------------|---------|----------------|--------------------|---------|-----------------|---------|--------|---------|
| Nfld. | 1 | 22,626 | 4,978 | 3,290 | 36,959 | 55,024 | 7.4 | .7 | 11.1 |
| | 2 | 2,501 | 349 | 165 | 1,839 | 3,731 | 5.3 | .5 | 10.7 |
| | Total | 25,127 | 5,327 | 3,455 | 38,798 | 58,755 | 7.3 | .7 | 11.0 |
| PEI | Total | 5,038 | 658 | 315 | 1,499 | 3,194 | 2.3 | .5 | 4.9 |
| NS | 1 | 9,699 | 2,512 | 1,098 | 47,266 | 13,404 | 18.8 | 3.5 | 5.3 |
| | 2 | 4,092 | 2,067 | 1,179 | 10,598 | 12,151 | 5.1 | .9 | 5.9 |
| | Total | 13,791 | 4,579 | 2,277 | 57,864 | 25,555 | 12.6 | 2.3 | 5.6 |
| NB | 1 | 8,573 | 1,590 | 1,111 | 28,073 | 9,531 | 17.7 | 2.9 | 6.0 |
| | 2 | 3,343 | 895 | 556 | 4,851 | 6,091 | 5.4 | .8 | 6.8 |
| | Total | 11,916 | 2,485 | 1,667 | 32,924 | 15,622 | 13.2 | 2.1 | 6.3 |
| Que. | 1 | 46,901 | 13,201 | 9,864 | 151,127 | 66,892 | 11.4 | 2.3 | 5.1 |
| | 2 | 11,444 | 2,525 | 1,655 | 13,424 | 21,263 | 5.3 | .6 | 8.4 |
| | Total | 58,345 | 15,726 | 11,519 | 164,551 | 88,155 | 10.5 | 1.9 | 5.6 |
| Ont. | 1 | 39,460 | 8,140 | 5,883 | 507,952 | 48,779 | 62.4 | 10.4 | 6.0 |
| | 2 | 73,230 | 12,790 | 6,524 | 174,685 | 51,449 | 13.7 | 3.4 | 4.0 |
| | 3 | 23,779 | 2,949 | 1,618 | 10,051 | 16,025 | 3.4 | .6 | 5.4 |
| | Total | 136,469 | 23,879 | 14,025 | 692,688 | 116,253 | 29.0 | 6.0 | 4.9 |
| Man. | 1 | 33,915 | 3,114 | 1,179 | 68,116 | 23,169 | 21.9 | 2.9 | 7.4 |
| | 2 | 3,252 | 757 | 401 | 3,709 | 3,707 | 4.9 | 1.0 | 4.9 |
| | Total | 37,167 | 3,871 | 1,580 | 71,825 | 26,876 | 18.6 | 2.7 | 6.9 |
| Sask. | 1 | 19,465 | 2,290 | 1,079 | 177,227 | 12,839 | 77.4 | 13.8 | 5.6 |
| | 2 | 9,861 | 1,017 | 499 | 262,503 | 3,093 | 58.1 | 84.9 | 3.0 |
| | 3 | 22,178 | 3,007 | 1,661 | 16,745 | 14,346 | 5.6 | 1.2 | 4.8 |
| | Total | 51,504 | 6,314 | 3,239 | 456,475 | 30,278 | 72.3 | 15.1 | 4.8 |
| Alta. | 1 | 25,529 | 3,236 | 1,369 | 649,302 | 27,135 | .6 | 23.9 | 8.4 |
| | 2 | 40,598 | 3,629 | 1,353 | 7,153 | 18,822 | 2.0 | .4 | 5.2 |
| | Total | 66,127 | 6,865 | 2,722 | 656,455 | 45,957 | 95.6 | 14.3 | 6.7 |
| BC | 1 | 12,493 | 863 | 520 | 148,835 | 3,842 | 72.5 | 38.7 | 4.5 |
| | 2 | 15,271 | 1,727 | 1,243 | 9,957 | 7,879 | 5.8 | 1.3 | 4.6 |
| | Total | 27,764 | 2,590 | 1,763 | 158,792 | 11,721 | 61.3 | 13.5 | 4.5 |
| NWT | Total | 591 | 175 | 4 | 12 | 502 | .1 | - | 2.9 |
| Yukon | Total | 323 | 17 | 1 | 1 | 114 | .1 | - | 6.7 |
| Total | | 434,162 | 72,486 | 42,567 | 331,884 | 422,982 | 32.2 | 5.5 | 5.8 |

*S. Bag, season bag per active hunter.
D. Bag, daily bag per active hunter.
R. Days, recreation days per active hunter.

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