

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

Aussi disponible en français

No. 70, December 1976

**Report on 1975 sales of the Canada migratory game bird hunting permit, waterfowl harvest, and hunter activity**

by F.G. Cooch<sup>1</sup>

**Introduction**

Procedures followed in the 1975 harvest survey were little changed from those first introduced in 1972. Sampling was increased in strata which had high variance and standard error in previous surveys, but was otherwise unmodified. The geographical boundaries of the survey strata are unchanged since 1971. Harvest survey questionnaires were machine edited to provide standardized application of edit criteria. The most significant change was the introduction of a goose harvest questionnaire, with a special goose calendar which permitted analysis by response over time as was previously done for ducks.

**Permit sales**

The decrease in permit sales which occurred in 1974, when the cost of the permit was increased to \$3.50, was checked in 1975, and sales rose sharply to 471 320, an 8.6% increase from 1974. Table 1 shows sales by province with comparative data back to 1966.

Prince Edward Island, British Columbia and Nova Scotia recorded reductions in sales, but all other provinces showed new highs. The most significant decrease (6.6%) occurred in British Columbia, continuing a trend which started in 1973. This is thought to have been caused by reduced accessibility to hunting areas, and by the lack of availability of permits resulting from a postal strike in October and November 1975.

Approximately one quarter (111 163) of the total sales were to new hunters or to hunters who do not hunt every year. The distribution of renewals, non-renewals, residents, and non-residents is given in Table 2.

**The harvest survey**

Before 1972, survey results were based solely on a sample of sales from the previous year (now samples B and D). In 1972, new and inconsistent hunters became sample A, because their characteristics were known to be different from those of regular hunters. This subdivision was carried further in 1973, when known non-Canadians from sample A were separated as sample E in two zones of Ontario, two zones of Manitoba, and the two zones in southern Saskatchewan. This additional sample of intermittent hunters improved our estimates of the goose kill, especially in Saskatchewan and James Bay. It was necessary because non-resident hunters who had not purchased a permit in the previous year were not necessarily as inexperienced as were Canadians included in sample A. Con-

<sup>1</sup>CWS, Ottawa, K1A 0H3.

sequently their reports tended to inflate the indicated kill computed for the entire sample of intermittent hunters. It is the combined results from samples A, B, and D (and E where applicable) that appear in Tables 7 and 8. In 1976, we will sample all non-resident hunters as a single universe.

Table 3 shows the characteristics of the total sample in terms of activity and success. Because of the subdivisions within this sample described above, it is not valid to extrapolate from this table to obtain the results given in Tables 7 and 8. Extrapolation factors are now computed for each record, which increases precision and allows increased flexibility in data retrieval for specialized studies.

Table 4 shows changes that have occurred in sampling intensity and response from 1969 to the present. Because the universe (permit sales) is increasing it is not possible to maintain a sample of static size. The gradual increase in response rate as well as the increasing number of active and successful hunters have increased the accuracy of the estimates which are derived from the National Surveys (Table 5). We want to reduce the standard error for ducks and geese in each province to less than 10% at a 90% confidence level.

Despite increases in sample sizes in some zones in 1975, the increase in accuracy of the estimates was not commensurate with the cost (Table 5). Two factors came into play: the increase in permit sales and the skewness of the responses from active and successful hunters. Because the response curve is very sharply skewed to the left, with a long and increasingly intermittent tail for higher values, sampling intensities would have to be pushed well above 25% of the universe in some zones in order to reduce the standard error for geese below ±10%.

A prolonged postal strike delayed part of the mailing of the initial wave of questionnaires but did not affect returns of follow-up questionnaires. The overall response rate increased from 51.5% in 1973 to 54.1% in 1974 and 55.6% in 1975. Characteristics of the subsamples and variations in response rate are being studied to determine their implications for increasing the efficiency of the survey. The number of people who purchased a permit, but who apparently did not subsequently hunt, is surprisingly high—25% in the case of new hunters (sample A), whereas for samples B and D only 15% apparently did not exercise their option after purchasing their permit. Response to sample B (those hunters who purchased a permit for the first time in the preceding year) indicated that 50% of intermittent hunters in one year do not renew a second time in succession. There is considerable variation from one zone to another. The three prairie provinces had the smallest proportion of permit purchasers who did not hunt, while Newfoundland had the highest.

In 1975, 3 920 000 ducks and 573 000 geese were killed by licensed hunters. These are the highest estimates obtained since the survey format was changed in 1972. A comparison

SK  
471  
C3371  
NO.70



with estimated kill in previous years is given in Table 6. The kill of ducks per potential hunter has been relatively stable over the years used in this comparison, whereas the kill of geese is increasing rapidly. As can be seen from Table 7, much of the increased kill of geese can be attributed to new opportunities in Manitoba and to a lesser degree in Saskatchewan, Alberta and Quebec.

The harvest of waterfowl for each province is given in Table 7. The harvest of other migratory game birds has been reported separately (Cooch 1976). The format of Table 7 has been changed slightly to report total geese killed rather than simply to provide estimates of the harvest of Canada Geese and of other geese as was done in the past. In 1975 a special survey of goose hunters was undertaken which provided a means of making temporal adjustments to both the Harvest and Species Surveys. Consequently, responses to the questions on goose harvests included in the National Harvest Survey were combined to provide for a single estimate of the goose harvest (species group combined). The results so obtained were subsequently analysed on the basis of tail fan receipts, adjusted for response over time. This is the same procedure used to estimate the species composition of the duck harvest and thus places estimates for both ducks and geese in the same format.

In general, 1975 was an exceptional waterfowl hunting season. Increased harvests and increased kill per successful hunter were widespread. The kill per hunter increased or remained near that of 1974, and any increase in total kill cannot be attributed solely to increases in the number of active hunters. Significant increases in the goose harvest occurred in Quebec, Manitoba, Saskatchewan and Alberta. This was expected, as the proportion of birds of non-breeding age in 1975 was relatively low and production of young birds was not reduced in most parts of the Arctic by prolonged snow cover in the spring. The proportion of birds of the year in the population was very high, further contributing to the success of many hunters.

Table 8 shows 1975 estimates of average daily bag, season bag, and numbers of man-days of recreation spent hunting waterfowl. Because a hunter may hunt more than one species group, it is not possible at present to add together the harvest estimates for waterfowl and other migratory game birds and to derive national totals of recreational hunting activity of migratory game birds.

#### References

Cooch, F.G. 1976. Kill of migratory game birds other than waterfowl by hunters in Canada 1975. Can. Wildl. Serv. Prog. Note No. 68. 7 p.

Table 1  
Permit sales by province of purchase, 1975

Category	Year	Nfld.	PEI	NS	NB	Que.	Ont.	Man.	Sask.	Alta.	BC	NWT	Yukon	Total residents
Canadian res.	30 070	4953	13 995	12 600	62 800	140 713	40 258	53 908	68 155	25 623	719	479	454 283	
Non-res.	45	10	35	330	968	7 957	2 588	3 815	1 036	245	2	6	17 037	
Total	30 115	4963	13 990	12 930	63 768	148 670	42 846	57 723	69 191	25 918	721	485	471 320	
1975	30 115	4963	13 990	12 930	63 768	148 670	42 846	57 723	69 191	25 918	591	323	434 162	
1974	25 127	5038	13 791	11 916	58 345	136 469	37 167	51 504	66 127	27 764	-	-	452 841	
1973	27 919	4972	15 071	12 869	57 247	141 277	41 711	51 307	67 012	33 456	-	-	421 677	
1972	23 682	4492	12 158	11 336	53 982	131 427	41 133	50 004	63 309	31 032	-	-	418 237	
1971	23 460	4513	11 381	11 146	50 276	133 563	40 960	49 448	62 902	30 225	-	-	405 650	
1970	21 347	3926	9 926	10 293	46 009	135 231	39 230	47 722	59 986	31 350	-	-	389 325	
1969	19 089	3794	8 848	10 110	39 477	134 037	41 611	45 347	53 602	32 764	-	-	385 553	
1968	17 645	3649	9 022	9 558	37 110	139 182	38 712	43 596	53 623	33 301	-	-	383 032	
1967	14 863	3094	7 883	7 739	32 491	146 493	35 620	44 651	55 892	33 195	-	-	380 059	
1966	13 269	3271	7 220	8 535	35 868	144 063	37 784	44 744	52 911	32 394	-	-		

Table 2  
Permit sales by resident/non resident and renewal/non-renewal by province and zone of sale

Prov.	Survey stratum	Total permit sales			Renewals			Non-renewals		
		Total	Res.	Non-res.	Total	Res.	Non-res.	Total	Res.	Non-res.
Nfld.	1	27 207	27 177	30	18 608	18 591	17	8 599	8 586	13
	2	2 908	2 893	15	2 210	2 203	7	698	690	8
	Total	30 115	30 070	45	20 818	20 794	24	9 297	9 276	21
PEI	Total	4 963	4 953	10	4 073	4 068	5	890	885	5
NS	1	8 349	8 318	31	6 779	6 763	16	1 570	1 555	15
	2	5 641	5 637	4	4 177	4 176	1	1 464	1 461	3
	Total	13 990	13 955	35	10 956	10 939	17	3 034	3 016	18
NB	1	8 896	8 726	170	6 443	6 338	105	2 453	2 388	65
	2	4 034	3 874	160	2 807	2 753	54	1 227	1 121	106
	Total	12 930	12 600	330	9 250	9 091	159	3 680	3 509	171
Que.	1	50 002	49 480	522	39 045	38 686	359	10 957	10 794	163
	2	13 766	13 320	446	9 216	8 954	262	4 550	4 366	184
	Total	63 768	62 800	968	48 261	47 640	621	15 507	15 160	347
Ont.	1	42 077	39 033	3 044	33 756	31 417	2339	8 321	7 616	705
	2	77 914	77 061	853	64 862	64 280	582	13 052	12 781	271
	3	28 679	24 619	4 060	20 095	18 055	2040	8 584	6 564	2020
Man.	Total	148 670	140 713	7 957	118 713	113 752	4961	29 957	26 961	2996
	1	35 266	33 223	2 043	29 509	28 234	1275	5 757	4 989	768
	2	7 580	7 035	545	5 935	5 665	270	1 645	1 370	275
Sask.	Total	42 846	40 258	2 588	35 444	33 899	1545	7 402	6 359	1043
	1	22 920	21 625	1 295	17 140	16 455	685	5 780	5 170	610
	2	10 040	9 737	303	7 335	7 165	170	2 705	2 572	133
Alta.	3	24 763	22 546	2 217	17 490	16 363	1127	7 273	6 183	1090
	Total	57 723	53 908	3 815	41 965	39 983	1982	15 758	13 925	1833
	1	28 334	27 591	743	20 592	20 215	377	7 742	7 376	366
BC	2	40 857	40 564	293	29 482	29 336	146	11 375	11 228	147
	Total	69 191	68 155	1 036	50 074	49 551	523	19 117	18 604	513
	1	11 565	11 383	182	8 283	8 229	54	3 282	3 154	128
NWT	2	14 353	14 290	63	11 690	11 681	9	2 663	2 609	54
	Total	25 918	25 673	245	19 973	19 910	63	5 945	5 763	182
	Total	721	719	2	441	441	-	280	278	2
Yukon	Total	485	479	6	189	189	-	296	290	6
	Total	471 320	454 283	17 037	360 157	350 257	9900	111 163	104 026	7137

**Table 3**  
Sample selection and response to the questionnaires in the  
Harvest Survey, 1975

Prov.	Survey stratum	Total permit sales	Characteristics of the sample					
			Total receipts		No. permit purchasers		Active hunters	
			Contacts	No.	%	No.	%	No.
Nfld.	01	27 207	3 289	1 531	46.5	1 165	782	67.1
	02	2 908	529	173	32.7	142	98	69.0
	Total	30 115	3 818	1 704	44.6	1 307	880	67.3
PEI	Total	4 963	1 028	413	40.2	344	284	82.6
	NS	01	8 349	1 118	667	59.7	496	406
	02	5 641	1 215	784	64.5	587	471	80.2
NB	Total	13 990	2 333	1 451	62.2	1 083	877	81.0
	01	8 896	1 602	930	58.1	706	539	76.3
	02	4 034	637	307	48.2	243	155	63.8
Que.	Total	12 930	2 239	1 237	55.2	949	694	73.1
	01	50 002	2 421	1 520	62.8	1 157	950	82.1
	02	13 766	945	585	62.0	430	313	72.8
Ont.	Total	63 768	3 366	2 105	62.5	1 587	1 263	79.6
	01	42 077	3 457	2 044	59.1	1 547	1 220	78.9
	02	77 914	1 389	768	55.3	636	522	82.1
Man.	03	28 679	1 579	980	62.1	745	600	80.5
	Total	148 670	6 425	3 792	59.0	2 928	2 342	80.0
	01	35 266	2 685	1 770	65.9	1 450	1 333	92.0
Sask.	02	7 580	622	428	64.7	343	286	83.4
	Total	42 846	3 347	2 198	65.7	1 793	1 619	90.3
	01	22 920	1 463	812	55.5	640	576	90.0
Alta.	02	10 040	1 698	803	47.3	628	577	91.9
	03	24 763	1 884	1 006	53.4	804	727	90.4
	Total	57 723	5 045	2 621	52.0	2 072	1 880	90.7
BC	01	28 334	1 127	1 220	57.4	887	759	85.6
	02	40 857	3 471	1 905	54.9	1 518	1 307	86.1
	Total	69 191	5 598	3 125	55.8	2 405	2 066	86.0
NWT	01	11 565	900	510	56.7	365	276	75.6
	02	14 353	1 820	1 026	56.4	668	528	79.0
	Total	25 918	2 720	1 536	56.5	1 033	804	77.8
Yukon	Total	721	436	208	47.7	178	137	77.0
	Total	485	428	258	60.3	193	134	69.4
	Total	471 320	37 109	20 648	55.6	15 872	12 980	81.8
								11 170
								70.4

**Table 4**  
Changes in sampling intensity and response 1969-75

Year	Permit universe	Potential contacts*		Response		Potential hunters		Active		Successful	
		No.	%	No.	%	No.	%	No.	%	No.	%
1969	389 325	37 994	9.76	15 936	41.94	10 837	68.0	9 053	83.5	7 766	71.7 †
1970	405 650	33 264	8.20	16 209	48.73	11 305	69.75	9 540	84.4	8 282	73.36†
1971	417 876	33 177	7.94	15 740	47.4	10 603	67.36	8 599	81.1	7 298	68.8†
1972	421 677	25 851	6.13	15 400	59.6	11 796	76.60	9 199	78.0	7 107	60.2
1973	452 841	26 125	5.77	13 461	51.5	10 761	79.94	8 472	78.7	6 912	64.2
1974	434 162	28 845	6.64	15 594	54.1	11 747	75.33	9 611	81.8	8 013	68.2
1975	471 320	37 109	7.87	20 648	55.6	15 872	76.87	12 980	81.8	11 170	70.4
Average	427 550	31 766	6.43	16 141	50.8	11 846	73.4	9 636	81.3	8 078	68.2

\*Net contacts after 1971, 1969-71 total mailings.

†Sampled consistent hunters only.

**Table 5**  
Confidence intervals (90%) on duck and goose kill estimates,  
from the National Surveys, 1974-75

Prov.	Respondents		Ducks		Canada Geese		Other geese	
	1974	1975	1974	1975	1974	1975	1974	1975
Nfld.			861	1 307	±0.24	±0.11	±0.26	±0.25
PEI			305	344	±0.17	±0.15	±0.26	±0.25
NS			921	1 083	±0.14	±0.11	±0.28	±0.25
NB			779	949	±0.13	±0.13	±0.36	±0.37
Que.			1 515	1 587	±0.10	±0.09	±0.19	±0.22
Ont.			2 129	2 928	±0.06	±0.06	±0.21	±0.19
Man.			1 131	1 793	±0.08	±0.06	±0.12	±0.07
Sask.			1 473	2 072	±0.07	±0.05	±0.12	±0.08
Alta.			1 330	2 405	±0.07	±0.05	±0.14	±0.10
BC			892	1 033	±0.21	±0.09	±0.38	±0.23
NWT			169	193	±0.26	±0.40	±0.62	±0.47
Yukon			283	178	±0.24	±0.46	±0.84	±0.52
Total			11 747	15 872	±0.03	±0.02	±0.06	±0.09
								±0.07

**Table 6**  
Changes in kill estimates of ducks and geese per potential  
hunter, 1972-75

Year	Harvest		Average-kill potential hunter	
	Ducks	Geese	Ducks	Geese
1972	3 535 000	357 000	8.397	0.848
1973	3 360 000	440 000	7.434	0.974
1974	3 857 000	415 000	8.887	0.956
1975	3 920 000	573 000	8.323	1.216
Average	3 668 000	446 000	8.252	1.003

**Table 7**  
Number of successful hunters and birds harvested by hunters  
from samples A, B and D (and E where applicable)

Species group	Survey stratum	Successful hunters			Birds harvested			Birds per hunter		
		1973	1974	1975	1973	1974	1975	1973	1974	1975
<b>Newfoundland</b>										
Ducks	01	13 107	10 295	11 249	90 000	82 510	80 957	6.87	8.01	7.20
	02	1 719	1 608	1 458	21 526	21 326	20 738	12.52	13.26	14.22
	Total	14 826	11 903	12 707	111 526	103 836	101 695	7.52	8.72	8.00
Canada Geese	01	1 617	1 557	1 816	4 432	4 676	4 337	2.74	3.00	2.39
	02	591	770	674	2 590	2 936	3 588	4.38	3.81	5.32
	Total	2 208	2 327	2 490	7 022	7 612	7 925	3.18	3.27	3.18
Other geese	01	169	103	161	487	380	225	2.88	3.68	1.39
	02	24	76	—	122	230	—	5.00	3.01	—
	Total	193	179	161	609	610	225	3.15	3.39	1.39
Total geese	01	1 640	1 977	4 919	5 056	4 562	—	3.08	2.31	—
	02	828	674	2 712	3 166	3 588	—	3.82	5.32	—
	Total	2 468	2 651	7 631	8 222	8 150	—	3.33	3.07	—
<b>Prince Edward Island</b>										
Ducks	01	3 003	3 105	3 040	17 966	31 417	28 445	5.98	10.12	9.36
	Total	3 003	3 105	3 040	17 966	31 417	28 445	5.98	10.12	9.36
Canada Geese	01	1 639	2 104	1 461	7 054	11 231	6 141	4.30	5.34	4.20
	Total	1 639	2 104	1 461	7 054	11 231	6 141	4.30	5.34	4.20
Other geese	01	32	81	57	32	90	213	1.00	1.12	3.70
	Total	32	81	57	32	90	213	1.00	1.12	3.70
Total geese	01	2 104	1 501	7 086	11 321	6 354	—	5.38	4.23	—
	Total	2 104	1 501	7 086	11 321	6 354	—	5.38	4.23	—
<b>Nova Scotia</b>										
Ducks	01	5 180	4 183	4 816	68 485	65 169	78 556	13.22	15.58	16.31
	02	6 467	4 011	3 706	48 959	40 314	39 438	7.57	10.05	10.64
	Total	11 647	8 194	8 522	117 444	105 483	117 994	10.08	12.87	13.85
Canada Geese	01	711	1 021	1 228	2 922	3 101	6 598	4.11	3.04	5.37
	02	759	673	907	2 587	1 994	2 709	3.41	2.96	2.99
	Total	1 470	1 694	2 135	5 509	5 095	9 307	3.75	3.01	4.36
Other geese	01	0	11	48	0	22	112	—	2.00	2.30
	02	76	28	9	747	42	9	9.71	1.50	1.00
	Total	76	39	57	747	64	121	9.71	1.64	2.09
Total geese	01	1 021	1 276	2 922	3 123	6 710	—	3.06	5.25	—
	02	702	916	3 334	2 036	2 718	—	2.90	2.96	—
	Total	1 723	2 192	6 256	5 159	9 428	—	2.99	4.30	—

Cont'd on next page

**Table 7 (Cont'd)**  
Number of successful hunters and birds harvested by hunters  
from samples A, B and D (and E where applicable)

Species group	Survey stratum	Successful hunters			Birds harvested			Birds per hunter		
		1973	1974	1975	1973	1974	1975	1973	1974	1975
<b>New Brunswick</b>										
Ducks	01	5 289	4 976	4 969	35 783	42 547	41 098	6.77	8.55	8.27
	02	2 423	2 193	2 346	16 132	16 176	17 963	6.66	7.38	7.66
	Total	7 712	7 169	7 315	51 915	58 723	59 061	6.73	8.19	8.07
Canada Geese	01	201	409	262	610	1 329	832	3.03	3.25	3.18
	02	412	669	632	1 383	1 535	1 371	3.36	2.29	2.17
	Total	613	1 078	894	1 993	2 864	2 203	3.25	2.65	2.46
Other geese	01	75	37	11	488	52	71	6.47	1.42	6.00
	02	156	44	259	664	156	714	4.23	3.55	2.75
	Total	231	81	270	1 152	208	785	4.96	2.58	2.89
Total geese	01	446	274	1 098	1 381	903	—	3.09	3.30	—
	02	698	734	2 047	1 691	2 085	—	2.42	2.84	—
	Total	1 145	1 008	3 145	3 072	2 988	—	2.68	2.96	—
<b>Quebec</b>										
Ducks	01	29 803	34 953	33 703	411 785	487 123	384 911	13.82	13.94	11.42
	02	8 857	8 050	8 447	81 295	82 533	82 981	9.18	10.25	9.82
	Total	38 660	43 003	42 150	493 080	569 656	467 892	12.75	13.25	11.10
Canada Geese	01	5 269	8 327	3 837	15 471	25 191	15 183	2.94	3.03	3.96
	02	2 420	3 658	2 058	12 630	17 935	8 218	5.22	4.90	3.99
	Total	7 689	11 985	5 895	28 101	43 126	23 401	3.65	3.60	3.97
Other geese	01	3 342	2 995	3 812	21 143	8 956	20 842	6.33	2.99	5.47
	02	834	432	1 012	4 720	1 713	7 978	5.66	3.96	7.88
	Total	4 176	3 427	4 824	25 863	10 669	28 820	6.19	3.11	5.97
Total geese	01	10 767	6 910	36 614	34 147	36 025	—	3.17	5.21	—
	02	3 859	2 561	17 350	19 648	16 196	—	5.09	6.32	—
	Total	14 626	9 471	53 964	53 795	52 221	—	3.68	5.51	—

**Table 7** (Cont'd)

**Number of successful hunters and birds harvested by hunters from samples A, B and D (and E where applicable)**

Species group	Survey stratum	Successful hunters			Birds harvested			Birds per hunter		
		1973	1974	1975	1973	1974	1975	1973	1974	1975
Other geese	01	436	552	218	800	1 895	591	1.83	3.43	2.7
	02	545	934	579	787	2 626	1 305	1.44	2.81	2.2
	03	1 984	1 538	2 077	10 906	9 526	16 834	5.49	6.19	8.1
	Total	2 965	3 024	2 874	12 493	14 047	18 730	4.21	4.64	6.5
Total geese	01		3 597	3 754		12 356	10 383		3.43	2.7
	02		6 598	5 604		20 696	14 144		3.14	2.5
	03		2 752	3 656		14 579	26 243		5.30	7.1
	Total		12 948	13 014		47 631	50 770		3.68	3.9
<b>Manitoba</b>										
Ducks	01	22 245	19 236	20 016	190 462	186 489	206 055	8.56	9.69	10.2
	02	5 959	6 072	7 459	61 468	63 101	93 166	10.32	10.39	12.4
	Total	28 204	25 308	27 475	251 930	249 590	299 221	8.93	9.86	10.8
Canada Geese	01	12 997	10 275	15 701	54 066	42 392	72 239	4.16	4.13	4.6
	02	2 786	3 749	4 774	9 498	15 853	27 943	3.41	4.23	5.8
	Total	15 783	14 024	20 475	63 564	58 245	100 182	4.03	4.15	4.8
Other geese	01	7 011	6 495	11 126	23 831	25 497	46 695	3.40	3.93	4.2
	02	867	1 169	1 781	1 990	4 774	5 515	2.30	4.08	3.1
	Total	7 878	7 664	12 907	25 821	30 271	52 210	3.28	3.95	4.0
Total geese	01		12 469	19 010	77 892	67 889	118 934		5.44	6.2
	02		4 050	5 147	11 488	20 627	33 458		5.09	6.5
	Total		16 519	24 157	89 385	88 516	152 392		5.36	6.3
<b>Saskatchewan</b>										
Ducks	01	15 401	18 062	21 397	179 863	269 431	315 851	11.68	14.92	14.7
	02	6 873	8 922	9 345	110 931	171 181	192 270	16.14	19.19	20.5
	03	14 572	16 805	19 089	181 074	259 049	299 174	12.43	15.41	15.6
	Total	36 846	43 789	49 831	471 868	699 662	807 295	12.81	15.98	16.2
Canada Geese	01	9 389	7 744	11 990	49 180	28 080	60 280	5.24	3.63	5.0
	02	1 546	2 082	2 667	4 396	6 724	10 891	2.84	3.23	4.0
	03	3 517	4 300	6 016	11 650	14 284	20 845	3.31	3.32	3.4
	Total	14 452	14 126	20 673	65 226	49 088	92 016	4.51	3.47	4.4
Other geese	01	8 142	7 154	9 250	39 780	30 684	44 773	4.89	4.29	4.8
	02	1 075	881	1 265	2 302	1 925	4 679	2.14	2.18	3.7
	03	2 741	3 107	4 116	9 645	9 334	15 676	3.52	3.00	3.8
	Total	11 958	11 142	14 631	51 727	41 943	65 128	4.33	3.76	4.4
Total geese	01		10 827	14 302	88 960	58 764	105 053		5.43	7.3
	02		2 467	3 108	6 698	8 649	15 570		3.51	5.0
	03		5 687	7 881	21 295	23 618	36 521		4.15	4.6
	Total		18 981	25 291	116 953	91 031	157 144		4.80	6.2

*Cont'd on next page*

**Table 7 (Cont'd)**

**Number of successful hunters and birds harvested by hunters from samples A, B and D (and E where applicable)**

Species group	Survey stratum	Successful hunters			Birds harvested			Birds per hunter		
		1973	1974	1975	1973	1974	1975	1973	1974	1975
<b>Alberta</b>										
Ducks	01	23 678	24 441	22 442	293 698	371 484	299 070	12.40	15.20	13.33
	02	29 733	32 728	28 933	537 935	642 788	551 639	18.09	19.64	19.07
	Total	53 411	57 169	51 375	831 633	1 014 272	850 709	15.57	17.74	16.56
Canada Geese	01	9 101	8 955	9 903	41 509	38 582	48 925	4.56	4.31	4.94
	02	6 058	5 900	6 510	27 881	25 368	29 436	4.60	4.30	4.52
	Total	15 159	14 855	16 413	69 390	63 950	78 361	4.58	4.30	4.77
Other geese	01	5 420	5 381	6 789	22 401	19 200	29 321	4.13	3.57	4.32
	02	2 772	2 991	3 947	10 193	10 032	12 798	3.68	3.35	3.24
	Total	8 192	8 372	10 736	32 594	29 232	42 119	3.98	3.49	3.92
Total geese	01		10 764	11 787	63 910	57 782	78 246		5.37	6.64
	02		7 171	7 939	38 074	35 400	42 234		4.94	5.32
	Total		17 935	19 726	101 984	93 182	120 480		5.20	6.11
<b>British Columbia</b>										
Ducks	01	7 412	6 695	7 177	74 439	64 952	86 626	10.04	9.70	12.07
	02	11 757	7 548	7 332	180 992	145 993	149 597	15.39	19.34	20.40
	Total	19 169	14 243	14 509	255 361	210 945	236 223	13.32	14.81	16.28
Canada Geese	01	1 928	1 677	2 222	5 124	6 032	7 869	2.66	3.60	3.54
	02	1 943	912	717	4 962	4 335	2 658	2.55	4.75	3.70
	Total	3 871	2 589	2 939	10 086	10 367	10 527	2.61	4.00	3.58
Other geese	01	413	75	205	641	88	402	1.55	1.18	1.96
	02	420	584	467	1 354	1 109	1 853	3.22	1.90	3.96
	Total	833	659	672	1 995	1 197	2 255	2.39	1.82	3.35
Total geese	01		1 706	2 261	5 765	6 120	8 271		3.59	3.66
	02		1 497	1 049	6 316	5 444	4 511		3.64	4.30
	Total		3 203	3 310	12 081	11 564	12 782		3.61	3.86
<b>Northwest Territories</b>										
Ducks	01		459	848		5 269	9 541		11.48	11.24
	Total		459	848		5 269	9 541		11.48	11.24
Canada Geese	01		31	21		132	42		4.20	2.00
	Total		31	21		132	42		4.20	2.00
Other geese	01		20	63		243	1 591		11.60	24.90
	Total		20	63		243	1 591		11.60	24.90
Total geese	01		44	79		375	1 633		8.52	20.57
	Total		44	79		375	1 633		8.52	20.57

*Cont'd on next page*

**Table 7 (Concl'd)**

Number of successful hunters and birds harvested by hunters  
from Samples A, B and D (and E where applicable)

Species group	Survey stratum	Successful hunters			Birds harvested			Birds per hunter		
		1973	1974	1975	1973	1974	1975	1973	1974	1975
<b>Yukon Territory</b>										
Ducks	01		167	344		1097	5003	6.55	14.5	
	Total		167	344		1097	5003	6.55	14.5	
Canada Geese	01		24	94		82	229	3.31	2.4	
	Total		24	94		82	229	3.31	2.4	
Other geese	01		5	19		11	195	2.00	10.0	
	Total		5	19		11	195	2.00	10.0	
Total geese	01		28	99		93	424	3.32	4.2	
	Total		28	99		93	424	3.32	4.2	

**Table 8**

Recreational activity provided by the hunting of ducks and  
geese using samples A, B, D and E, 1975

Prov.	Survey stratum	Sales	Active hunters	Successful hunters	Harvest	Recreation days	S.Bag* (ave.)	D.Bag* (ave.)	R.Days* (ave.)
Nfld.	1	27 207	17 433	11 407	85 520	196 557	4.9	0.4	11.3
	2	2 908	2 146	1 476	24 327	22 268	11.3	1.1	10.4
	Total	30 115	19 579	12 883	109 847	218 825	5.6	0.5	11.2
PEI	Total	4 963	4 204	3 472	34 800	44 393	8.3	0.8	10.6
	1	8 349	5 773	4 883	85 267	72 107	14.8	1.2	12.5
	2	5 641	5 216	3 740	42 157	51 845	8.1	0.8	9.9
NS	Total	13 990	10 989	8 623	127 424	123 952	11.6	1.0	11.3
	1	8 896	6 168	4 994	42 002	35 495	6.8	1.2	5.8
	2	4 034	3 046	2 379	20 049	26 922	6.6	0.7	8.8
NB	Total	12 930	9 214	7 373	62 051	62 417	6.7	1.0	6.8
	1	50 002	41 060	34 642	421 132	351 798	10.3	1.2	8.6
	2	13 766	10 644	8 819	99 177	94 973	9.3	1.0	8.9
Que.	Total	63 768	51 704	43 461	520 309	446 771	10.1	1.2	8.6
	1	42 077	27 247	22 020	263 586	240 513	9.7	1.1	8.8
	2	77 914	66 153	52 865	518 736	461 153	7.8	1.1	7.0
Ont.	3	28 679	21 469	16 314	206 755	176 494	9.6	1.2	8.2
	Total	148 670	114 869	91 199	989 077	878 160	8.6	1.1	7.6
Man.	1	35 266	28 604	25 249	324 991	221 865	11.4	1.5	7.8
	2	7 580	9 764	8 797	126 625	77 838	13.0	1.6	8.0
	Total	42 846	38 368	34 046	451 616	299 703	11.8	1.5	7.8
Sask.	1	22 920	24 647	23 401	421 014	179 121	17.1	2.4	7.3
	2	10 040	10 186	9 530	208 112	87 697	20.4	2.4	8.6
	3	24 763	20 673	19 726	335 696	156 849	16.2	2.1	7.6
Alta.	Total	57 723	55 506	52 657	964 822	423 667	17.4	2.3	7.6
	1	28 334	27 131	24 466	377 316	192 231	13.9	2.0	7.1
	2	40 857	32 708	29 554	593 874	261 240	18.2	2.3	8.0
BC	Total	69 191	59 839	54 020	971 190	453 471	16.2	2.1	7.6
	1	11 565	8 864	7 408	94 897	65 251	10.7	1.5	7.4
	2	14 353	8 165	7 444	154 109	94 853	18.9	1.6	11.6
NWT	Total	25 918	17 029	14 852	249 006	160 104	14.6	1.6	9.4
	Total	721	1 156	904	11 176	4 425	9.7	2.5	3.8
	Yukon	Total	485	467	346	5 428	3 230	11.6	1.7
	Total	471 320	382 924	323 836	4 496 746	3 119 118	11.7	1.4	8.1

\*S.Bag = seasonal bag,  
D.Bag = daily bag,  
R.Days = recreation days.

