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

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Migratory birds killed in Canada during the 1982 season

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Introduction

The National Harvest Survey (NHS) and Species Composition Survey (SCS) are used to estimate kill, by species, of migratory birds in Canada.

Methods

Both the NHS and SCS are based on questionnaires mailed to selected purchasers of Canada migratory game bird hunting permits. Our results do not include illegal kill, legal hunting without permits by native people, or crippling loss. Cooch et al. (1978) give a description of the survey methods.

Figure 1 shows how permit sales have changed from 1966 to 1982. The decrease in sales since 1979 will be reflected in kill estimates, and this should be kept in mind by those who use kill statistics as indices to population size.

The survey results are calculated by geographic zones, as shown in Figure 2.

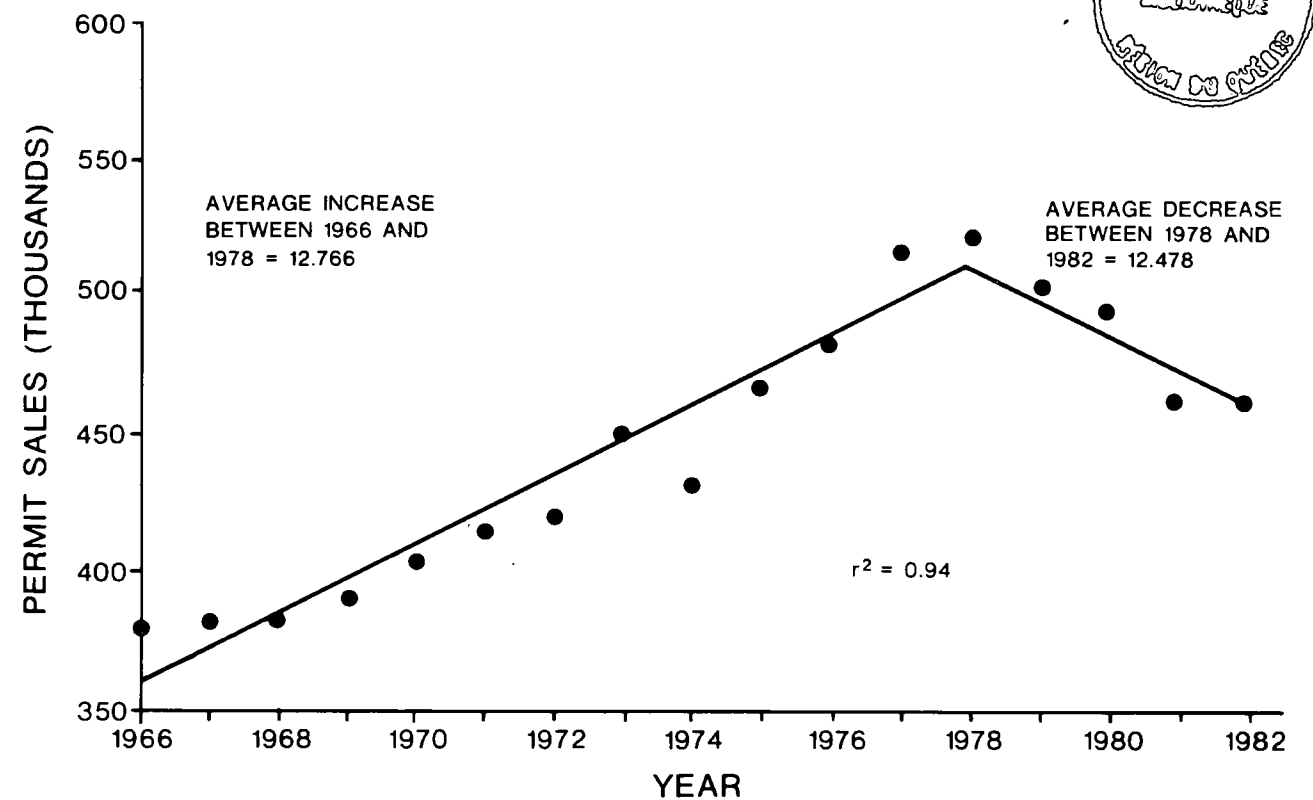
Acknowledgements

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References

Cooch, F.G.; Wendt, S.; Smith, G.E.J.; Butler, G. 1978. The Canada migratory game bird hunting permit and associated surveys. Pages 8-39 in H. Boyd and G.H. Finney, eds. Migratory game bird hunters and hunting in Canada Can. Wildl. Serv. Rep. Ser. No. 43. 127 pp.

Figure 1 Total sales of migratory game bird hunting permits in Canada (1966-82)



¹CWS, Ottawa, Ont. K1A 0E7.

Figure 2
Geographic zones used in NHS and SCS

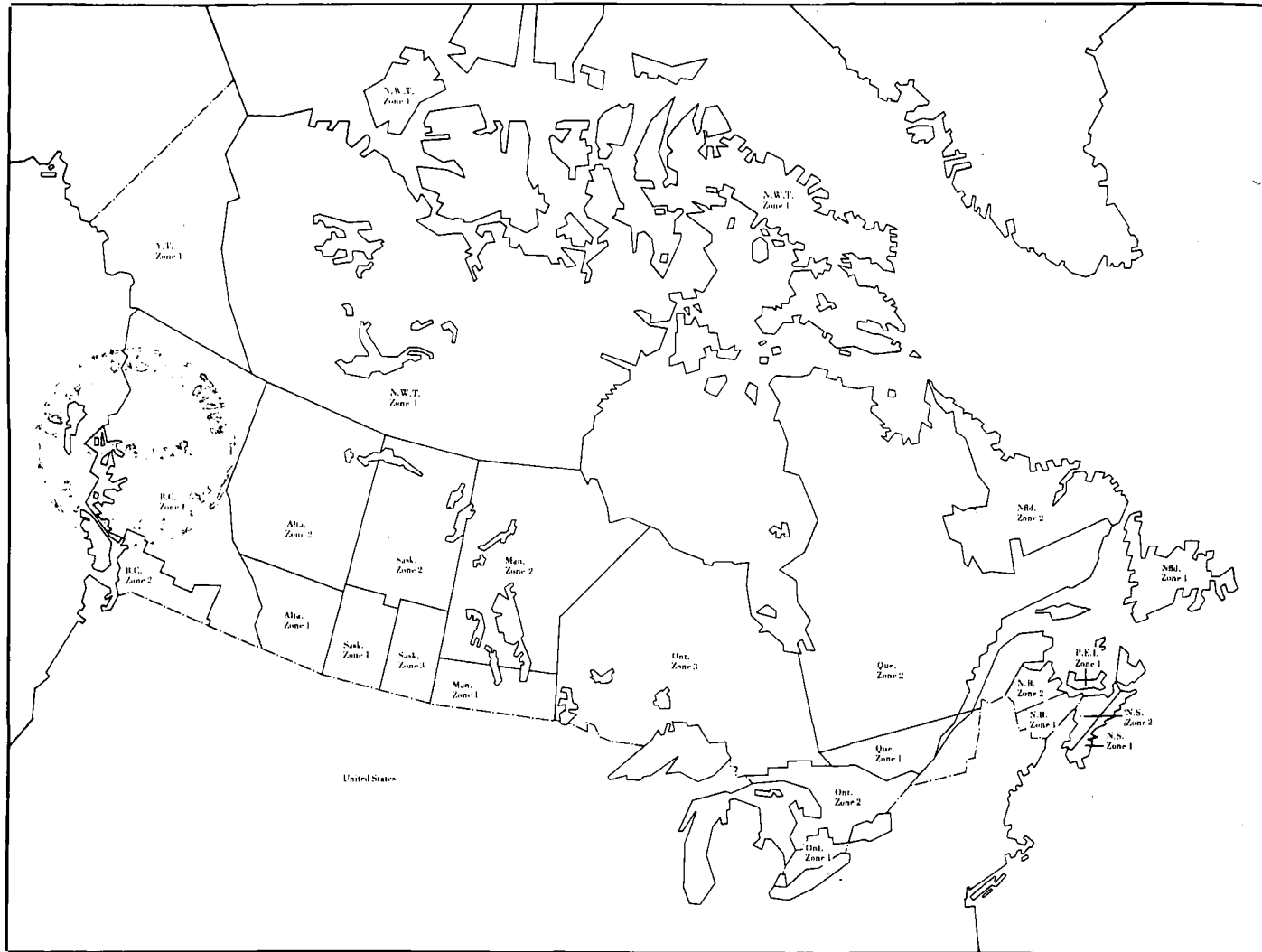


Table 1
Permit sales by province of purchase

Year	Nfld.	PEI	NS	NB	Que.	Ont.	Man.	Sask.	Alta.	BC	NWT	Yukon	Total sales
1982	31 215	5 461	13 728	12 759	72 850	144 436	45 273	47 236	64 968	26 522	800	572	465 820
1981	31 406	5 611	14 130	12 287	75 178	141 677	46 528	42 856	66 163	28 243	764	514	465 352
1980	31 362	5 802	14 257	12 471	76 133	147 952	48 340	54 081	79 318	27 943	732	525	498 916
1979	35 490	5 888	14 098	13 409	73 209	150 224	49 344	56 174	77 021	28 263	755	584	504 459
1978	37 297	6 396	16 297	15 249	74 745	159 698	50 169	57 958	77 117	28 561	821	638	524 946
1977	36 188	6 158	15 744	14 209	72 828	156 895	46 438	60 029	82 175	28 357	902	607	520 530
1976	29 621	5 756	13 326	13 743	66 453	143 816	46 816	61 669	75 739	26 561	893	513	484 771
1975	30 115	4 963	13 990	12 930	63 768	148 670	42 846	57 723	69 191	25 918	721	485	471 320
1974	25 127	5 038	13 791	11 916	58 345	136 469	37 167	51 504	66 127	27 764	591	323	434 162
1973	27 919	4 972	15 071	12 869	57 247	141 277	41 711	51 307	67 012	33 456	—	—	452 841
1972	23 682	4 492	12 158	11 336	53 082	131 427	41 133	50 004	63 309	31 032	—	—	421 677
1971	23 460	4 513	11 381	11 146	50 276	133 563	40 960	49 448	62 902	30 225	—	—	418 237
1970	21 347	3 926	9 926	10 293	46 009	135 231	39 230	47 722	59 986	31 350	—	—	405 650
1969	19 089	3 794	8 848	10 110	39 477	134 037	41 611	45 347	53 602	32 764	—	—	389 325
1968	17 645	3 649	9 022	9 558	37 110	139 182	38 712	43 596	53 623	33 301	—	—	385 553
1967	14 863	3 094	7 883	7 739	32 491	146 493	35 620	44 651	55 892	33 195	—	—	383 032
1966	13 269	3 271	7 220	8 535	35 868	144 063	37 784	44 744	52 911	32 394	—	—	380 059

Table 2

Permit sales by resident/non-resident and renewal/non-renewal by province and zone of sale for 1982

Prov.	Zone	Total permit sales			Renewals			Non-renewals		
		Total	Res.	Non-res.	Total	Res.	Non-res.	Total	Res.	Non-res.
Nfld.	01	28 209	28 181	28	22 000	21 978	22	6 209	6 203	6
	02	3 006	3 003	3	2 513	2 512	1	493	491	2
	Total	31 215	31 184	31	24 513	24 490	23	6 702	6 694	8
PEI	Total	5 461	5 442	19	4 568	4 551	17	893	891	2
NS	01	9 071	9 060	11	7 761	7 754	7	1 310	1 306	4
	02	4 657	4 650	7	3 585	3 584	1	1 072	1 066	6
	Total	13 728	13 710	18	11 346	11 338	8	2 382	2 372	10
NB	01	8 835	8 699	136	6 595	6 519	76	2 240	2 180	60
	02	3 924	3 849	75	2 949	2 908	41	975	941	34
	Total	12 754	12 548	211	9 544	9 427	117	3 215	3 121	94
Que.	01	57 008	56 673	335	46 125	45 898	227	10 883	10 775	108
	02	15 842	15 719	123	11 778	11 681	97	4 064	4 038	26
	Total	72 850	72 392	458	57 903	57 579	324	14 947	14 813	134
Ont.	01	39 420	36 280	3 140	32 764	30 428	2 336	6 656	5 852	804
	02	78 680	77 894	786	68 144	67 643	501	10 536	10 251	285
	03	26 336	23 235	3 101	19 662	17 796	1 866	6 674	5 439	1 235
	Total	144 436	137 409	7 027	120 570	115 867	4 703	23 866	21 542	2 324
Man.	01	37 678	32 805	4 873	32 805	29 352	3 453	4 873	3 453	1 420
	02	7 595	6 698	897	6 668	5 963	705	927	735	192
	Total	45 273	39 503	5 770	39 473	35 315	4 158	5 800	4 188	1 612
Sask.	01	17 974	16 898	1 076	13 702	13 109	593	4 272	3 789	483
	02	8 453	8 121	332	6 518	6 317	201	1 935	1 804	131
	03	20 809	18 818	1 991	15 591	14 439	1 152	5 218	4 379	839
	Total	47 236	43 837	3 399	35 811	33 865	1 946	11 425	9 972	1 453
Alta.	01	27 780	27 367	413	20 061	19 859	202	7 719	7 508	211
	02	37 188	36 878	310	28 086	27 906	180	9 102	8 972	130
	Total	64 968	64 245	723	48 147	47 765	382	16 821	16 480	341
BC	01	11 562	11 431	131	7 990	7 941	49	3 572	3 490	82
	02	14 960	14 902	58	11 620	11 599	21	3 340	3 303	37
	Total	26 522	26 333	189	19 610	19 540	70	6 912	6 793	119
NWT	Total	800	799	1	512	512	—	288	287	1
Yukon	Total	572	564	8	279	279	—	293	285	8
Total		465 820	447 966	17 854	372 276	360 528	11 748	93 544	87 438	6 106

Table 3

Sample selection and response to the Harvest Survey questionnaire, 1982

Prov.	Zone	Characteristics of sample							
		Sample	Responses	% ^a	Permit purchasers	Active hunters	% ^b	Successful hunters	% ^c
Nfld.	01	2 421	810	33.5	600	393	66	280	47
	02	854	200	23.4	148	120	81	95	64
	Total	3 275	1 010	30.8	748	513	69	375	50
PEI	Total	903	298	33.0	245	198	81	167	68
NS	01	1 302	503	38.6	383	294	77	251	66
	02	1 095	571	52.2	390	294	75	237	61
	Total	2 397	1 074	44.8	773	588	76	488	63
NB	01	1 721	858	49.9	654	504	77	421	64
	02	1 318	511	38.8	365	250	69	197	54
	Total	3 039	1 369	45.1	1 019	754	74	618	61
Que.	01	3 392	1 896	55.9	1 404	1 103	79	946	67
	02	1 670	835	50.0	613	440	72	376	61
	Total	5 062	2 731	54.0	2 017	1 543	77	1 322	66
Ont.	01	3 055	1 579	51.7	1 277	989	77	820	64
	02	1 672	908	54.3	750	615	82	527	70
	03	2 572	1 312	51.0	1 035	816	79	681	66
	Total	7 299	3 799	52.1	3 062	2 240	79	2 028	66
Man.	01	2 447	1 259	51.5	991	860	87	735	74
	02	1 413	611	43.2	439	360	82	326	74
	Total	3 860	1 870	48.5	1 430	1 220	85	1 061	74
Sask.	01	1 425	690	48.4	530	440	83	401	76
	02	1 989	863	43.4	629	507	81	447	71
	03	2 152	1 094	50.8	839	697	83	615	73
	Total	5 566	2 647	47.6	1 998	1 644	82	1 463	73
Alta.	01	2 158	995	46.1	765	584	76	508	66
	02	3 966	1 655	41.7	1 145	873	76	750	66
	Total	6 124	2 650	43.3	1 910	1 457	76	1 258	66
BC	01	1 362	726	53.3	482	328	68	271	56
	02	1 829	999	54.6	728	541	74	465	64
	Total	3 191	1 725	54.1	1 210	869	72	736	61
NWT	Total	445	182	40.9	142	87	61	62	44
Yukon	Total	398	193	48.5	147	83	57	58	40
Total		41 559	19 548	47.0	14 701	11 376	77	9 636	66

^a Percent of sample for which responses were received.

^b Percent of permit purchasers that actively hunted.

^c Percent of permit purchasers that hunted successfully.

Table 3a
Correction in response rate to the Harvest Survey for 1981

Prov.	Zone	Response	% ^a	Prov.	Zone	Response	% ^a	
Nfld.	01	859	34.4	Man.	01	1 293	51.5	
	02	239	23.9		02	628	42.4	
	Total	1 098	31.4		Total	1 921	48.2	
PEI	Total	380	34.6	Sask.	01	738	50.5	
NS	01	739	46.2		02	920	44.0	
	02	813	58.1		03	1 108	50.1	
NB	Total	1 552	51.7	Total	2 766	48.0		
	01	1 005	52.9	Alta.	01	931	42.3	
		02	721		42.4	02	1 673	41.5
Que.	Total	1 726	47.9	Total	2 604	41.8		
	01	2 009	57.4	BC	01	797	51.4	
		02	920		51.3	02	1 045	52.3
Ont.	Total	2 929	55.3	Total	1 842	51.9		
	01	1 760	55.0	NWT	Total	177	35.8	
		02	906		53.3	Yukon	Total	178
Total	03	1 430	51.1	Total			21 269	47.7
		4 096	53.2					

^a Percent of sample from which responses were received.

Table 4
Sample selection and response to the Harvest Survey questionnaire, 1975-82

Year	Permit sales	Sample ^a	% ^b	Responses ^c	% ^d	Permit purchasers ^e	% ^f	Active hunters	% ^g	Successful hunters	% ^h
1975	471 320	40 400	8.6	20 648	51.1	15 872	76.9	12 980	81.8	11 170	70.4
1976	484 771	44 969	9.3	20 397	45.4	15 729	77.1	12 805	81.4	10 999	69.9
1977	520 530	45 015	8.6	22 896	50.9	17 833	77.9	14 119	79.2	11 812	66.2
1978	524 946	44 968	8.6	25 745	57.3	19 806	76.9	15 505	78.3	13 168	66.5
1979	504 459	44 743	8.9	23 699	53.0	17 808	75.1	13 642	77.0	11 668	66.0
1980	498 916	44 743	9.0	24 297	54.3	18 364	75.6	14 344	78.1	12 342	67.2
1981	465 352	44 631	9.6	21 269	47.7	15 471	72.7	11 760	76.0	9 886	64.0
1982	465 820	41 559	8.9	19 542	47.0	14 701	75.2	11 376	77.0	9 636	66.0
Average	492 014	43 879	8.9	22 312	50.8	16 948	76.0	13 316	78.6	11 335	66.9

^a Sample is the number of questionnaires sent out.
^b Sample as a percent of permit sales.
^c Responses are questionnaires that have been completed and returned.
^d Percent of sample for which responses were received.
^e Respondents who bought a permit in 1982 (usable responses).
^f Percent of respondents that bought a permit.
^g Percent of permit purchasers that actively hunted.
^h Percent of permit purchasers that hunted successfully.

Table 5
Number of successful hunters and birds harvested, 1980-82

Species group	Survey stratum	Successful hunters			Birds harvested			Birds harvested/successful hunter			
		1980	1981	1982	1980	1981	1982	1980	1981	1982	
Newfoundland Ducks	1	11 474	12 432	12 327	82 930	94 255	83 603	7.23	7.58	6.78	
	2	2 075	1 589	2 046	23 108	20 099	27 877	11.14	12.65	13.62	
	Total	13 549	14 021	14 374	106 039	114 354	111 481	7.83	8.16	7.76	
Geese	1	2 644	2 203	2 985	7 102	6 747	8 409	2.69	3.06	2.82	
	2	827	721	773	3 713	3 329	2 776	4.49	4.62	3.59	
	Total	3 471	2 925	3 758	10 816	10 076	11 186	3.12	3.44	2.98	
Prince Edward Island Ducks	Total	3 465	3 325	3 544	31 862	26 234	38 693	9.19	7.89	10.92	
	Geese	Total	2 851	2 426	2 418	18 894	14 347	13 427	6.63	5.91	5.55
	Nova Scotia Ducks	1	5 448	4 949	4 473	86 192	86 389	54 867	15.82	17.46	12.27
2		3 053	2 953	3 267	38 544	27 213	32 789	12.62	9.22	10.04	
Total		8 502	7 902	7 740	124 737	113 603	87 656	14.67	14.38	11.32	
Geese	1	1 305	1 382	722	6 033	5 639	2 857	4.62	4.08	3.96	
	2	770	612	592	2 404	1 997	2 504	3.12	3.26	4.23	
	Total	2 076	1 994	1 314	8 437	7 637	5 362	4.06	3.83	4.08	
New Brunswick Ducks	1	5 099	4 719	4 948	44 769	42 846	44 603	8.78	9.08	9.01	
	2	1 790	2 045	2 165	15 138	16 155	15 971	8.45	7.90	7.38	
	Total	6 890	6 765	7 113	59 907	59 001	60 575	8.69	8.72	8.52	
Geese	1	465	447	342	1 493	1 641	1 189	3.21	3.67	3.48	
	2	491	568	521	1 579	2 638	1 585	3.22	4.64	3.04	
	Total	956	1 015	863	3 072	4 279	2 774	3.21	4.22	3.21	
Quebec Ducks	1	37 692	35 649	37 070	388 099	408 938	407 231	10.30	11.47	10.99	
	2	10 727	9 363	9 753	112 146	98 983	105 390	10.45	10.57	10.80	
	Total	48 420	45 013	46 824	500 245	507 922	512 622	10.33	11.28	10.95	
Geese	1	14 928	9 207	10 996	86 291	44 435	56 824	5.78	4.83	5.17	
	2	5 609	2 693	3 092	36 738	11 416	16 784	6.55	4.24	5.43	
	Total	20 538	11 901	14 089	123 030	55 851	73 609	5.99	4.69	5.22	
Ontario Ducks	1	20 489	19 796	19 657	250 629	218 847	228 902	12.23	11.06	11.64	
	2	52 188	49 570	50 949	489 964	483 182	449 920	9.39	9.75	8.83	
	3	15 823	13 372	16 894	171 542	148 084	182 800	10.84	11.07	10.82	
Geese	Total	88 500	82 739	87 501	912 136	850 113	861 623	10.31	10.27	9.85	
	1	6 275	6 418	7 311	22 863	18 262	27 757	3.64	2.85	3.80	
	2	11 786	6 772	8 958	43 879	19 476	24 029	3.72	2.88	2.68	
Manitoba	3	4 152	2 902	4 282	19 273	15 062	20 450	4.64	5.19	4.78	
	Total	22 214	16 093	20 552	86 015	52 801	72 236	3.87	3.28	3.51	
	Ducks	1	21 453	20 702	20 527	223 102	205 574	195 728	10.40	9.93	9.53
2		8 846	7 976	6 546	112 024	88 355	78 718	12.66	11.08	12.02	
Total		30 299	28 679	27 074	335 126	293 930	274 446	11.06	10.25	10.14	
Geese	1	20 141	18 306	17 219	135 677	115 566	121 564	6.74	6.31	7.06	
	2	6 050	5 562	5 262	34 470	31 941	35 199	5.70	5.74	6.69	
	Total	26 192	23 869	22 482	170 148	147 507	156 763	6.50	6.18	6.97	

(cont'd)

Table 5 (concl'd)
Number of successful hunters and birds harvested, 1980-82

Species group	Survey stratum	Successful hunters			Birds harvested			Birds harvested/ successful hunter		
		1980	1981	1982	1980	1981	1982	1980	1981	1982
Saskatchewan										
Ducks	1	12 814	9 056	9 145	144 447	82 305	95 401	11.27	9.09	10.43
	2	8 065	5 218	6 849	129 775	70 474	84 599	16.09	13.51	12.35
	3	14 965	10 579	12 053	169 331	120 472	144 145	11.31	11.39	11.96
	Total	35 845	24 853	28 048	443 553	273 252	324 146	12.37	10.99	11.56
Geese	1	12 318	9 866	9 711	102 439	19 544	79 549	8.32	7.77	8.19
	2	3 400	2 686	4 293	18 008	76 624	24 038	5.30	7.28	5.60
	3	9 616	7 437	8 340	50 942	45 220	47 409	5.30	6.08	5.68
	Total	25 334	19 990	22 345	170 391	141 389	150 996	6.77	7.07	6.76
Alberta										
Ducks	1	16 264	15 723	14 230	182 523	200 604	138 661	11.22	12.76	9.74
	2	34 625	22 988	23 656	506 278	324 961	319 559	14.62	14.14	13.51
	Total	50 890	38 712	37 886	688 801	525 566	458 224	13.54	13.58	12.09
Geese	1	10 472	10 450	8 500	69 771	70 411	54 336	6.66	6.74	6.39
	2	10 588	8 600	9 764	63 425	55 112	65 546	5.99	6.41	6.71
	Total	21 061	19 050	18 264	133 197	125 523	119 883	6.32	6.59	6.56
British Columbia										
Ducks	1	6 770	6 482	5 773	73 756	64 504	54 278	10.89	9.95	9.40
	2	7 203	7 680	7 295	112 518	123 816	109 061	15.62	16.12	14.95
	Total	13 974	14 162	13 069	186 275	188 320	163 340	13.33	13.30	12.50
Geese	1	2 677	2 397	2 462	9 798	8 826	7 818	3.66	3.68	3.17
	2	2 353	3 004	2 322	8 951	10 959	9 835	3.80	3.65	4.23
	Total	5 030	5 402	4 785	18 749	19 786	17 653	3.73	3.66	3.69
Northwest Territories										
Ducks	Total	966	583	409	11 548	5 019	3 145	11.95	8.61	7.67
Geese	Total	180	132	82	989	380	493	5.47	2.88	5.95
Yukon Territory										
Ducks	Total	293	225	193	3 017	1 542	1 122	10.27	6.85	5.80
Geese	Total	117	88	48	533	262	118	4.56	2.98	2.44
Canada										
Ducks	Total	301 599	266 985	273 781	3 403 251	2 958 862	2 897 079	11.28	11.08	10.58
Geese	Total	130 027	104 888	111 005	745 276	579 843	624 506	5.73	5.53	5.63

Table 6
Recreational activity provided by the hunting of ducks and geese, 1982

Area	Survey stratum	Total permit sales ^a	Active hunters	Successful hunters	Retrieved kill	Recreation days	S. bag ^b (av.)	D. bag ^b (av.)	R. days ^b (av.)
Nfld.	1	28 209	18 013	12 554	92 013	211 916	5.1	0.4	11.8
	2	3 006	2 555	2 046	30 654	25 993	12.0	1.2	10.2
	Total	31 215	20 568	14 600	122 667	237 909	6.0	0.5	11.6
PEI	Total	5 461	4 801	4 069	52 121	60 146	10.9	0.9	12.5
NS	1	9 071	5 380	4 473	57 725	60 107	10.7	1.0	11.2
	2	4 657	4 113	3 318	35 294	36 519	8.6	1.0	8.9
	Total	13 728	9 493	7 791	93 019	96 626	9.8	1.0	10.2
NB	1	8 835	6 183	4 969	45 793	35 127	7.4	1.3	5.7
	2	3 924	2 744	2 207	17 557	22 487	6.4	0.8	8.2
	Total	12 759	8 927	1 176	63 350	57 614	7.1	1.1	6.5
Que.	1	57 008	45 416	38 216	464 056	426 953	10.2	1.1	9.4
	2	15 842	12 465	10 228	122 174	114 329	9.8	1.1	9.2
	Total	72 850	57 881	48 444	586 230	541 282	10.1	1.1	9.4
Ont.	1	39 420	26 612	20 555	256 660	228 632	9.6	1.1	8.6
	2	78 680	62 663	51 520	473 949	452 372	7.6	1.0	7.2
	3	26 336	21 556	17 520	203 250	162 699	9.4	1.2	7.5
	Total	144 436	110 831	89 595	933 859	843 703	8.4	1.1	7.6
Man.	1	37 678	28 093	24 130	317 292	178 623	11.3	1.8	6.4
	2	7 595	8 815	7 858	113 917	65 004	12.9	1.8	7.4
	Total	45 273	36 908	31 988	431 209	243 627	11.7	1.8	6.6
Sask.	1	17 971	13 036	12 103	174 950	77 830	13.4	2.2	6.0
	2	8 453	8 971	7 921	108 637	56 586	12.1	1.9	6.3
	3	20 809	15 629	13 843	191 554	91 753	12.3	2.1	5.9
	Total	47 236	37 636	33 867	475 141	226 169	12.6	2.1	6.0
Alta.	1	27 780	18 929	16 187	193 001	124 598	10.2	1.5	6.6
	2	37 188	29 740	25 210	385 106	204 738	12.9	1.9	6.9
	Total	64 968	48 669	41 397	578 107	329 335	11.9	1.8	6.8
BC	1	11 562	8 153	6 428	62 097	55 490	7.6	1.1	6.8
	2	14 960	9 179	7 516	118 896	96 357	13.0	1.2	10.5
	Total	26 522	17 332	13 944	180 993	151 847	10.4	1.2	8.8
NWT	Total	800	699	412	3 638	3 705	5.2	1.0	5.3
Yukon	Total	572	293	204	1 241	1 694	4.2	0.7	5.8
Canada	Total	465 820	354 038	293 487	3 521 575	2 793 658	9.9	1.3	7.9

^a Migratory game bird hunting permits.

^b S. bag, seasonal bag per active hunter; D. bag, daily bag per active hunter; R. days, recreation days per active hunter.

Table 7
Estimated retrieved kill of migratory game birds other than waterfowl in Canada, 1977-82

Species	1977	1978	1979	1980	1981	1982	1977-82 average
American Woodcock	125 530	139 396	106 771	127 521	113 336	107 501	120 009
Common Snipe	84 711	100 011	82 265	63 385	59 482	69 544	76 566
American Coot	26 941	35 011	30 073	23 937	22 783	20 158	26 484
Sandhill Crane	367	876	3 798	5 582	2 961	2 837	2 737
Mourning Dove	5 388	1 575	1 100	772	1 474	1 278	1 931
Band-tailed Pigeon	4 736	3 836	4 240	3 257	2 864	4 078	3 835
Total	247 673	280 705	228 247	224 454	202 900	205 396	231 563

Table 8
Estimated number of successful hunters of Woodcock and of their retrieved kill, 1980-82

Area	Survey stratum	Successful hunters			Birds killed			Average kill/ successful hunter		
		1980	1981	1982	1980	1981	1982	1980	1981	1982
PEI	Total	115	36	62	316	237	246	2.7	6.6	3.9
NS	1	654	632	506	6 646	4 965	1 957	10.2	7.9	3.9
	2	361	302	276	2 133	1 177	1 506	5.9	3.9	5.4
	Total	1 015	934	783	8 780	6 142	3 464	8.6	6.6	4.4
NB	1	1 066	866	792	8 840	6 729	4 522	8.3	7.8	5.7
	2	265	350	344	4 323	2 552	2 169	16.3	7.3	6.3
	Total	1 332	1 216	1 136	13 163	9 281	6 692	9.9	7.6	5.9
Que.	1	5 799	5 447	5 467	40 161	24 968	31 135	6.9	4.6	5.7
	2	838	749	1 187	7 013	2 923	5 425	8.4	3.9	4.6
	Total	6 637	6 196	6 655	47 175	27 891	36 560	7.1	4.5	5.5
Ont.	1	3 381	3 123	3 676	22 450	24 016	21 169	6.6	7.7	5.8
	2	5 499	7 629	5 634	26 672	40 237	29 135	4.9	5.3	5.2
	3	1 115	1 096	1 450	8 963	5 505	8 585	8.0	5.0	5.9
	Total	9 996	11 849	10 761	58 087	6 975	58 890	5.8	5.9	5.5
Canada	Total	19 098	20 232	19 764	127 523	113 331	107 504	6.7	5.6	5.4
No. sampled		750	645	530						
% sampled		3.93	3.19	2.68						

Table 9
Estimated number of successful hunters of Common Snipe and of their retrieved kill, 1980-82

Area	Survey stratum	Successful hunters			Birds killed			Average kill/ successful hunter		
		1980	1981	1982	1980	1981	1982	1980	1981	1982
Nfld.	1	2 310	3 084	2 743	13 014	15 854	17 023	5.6	5.1	6.2
	2	207	120	186	741	855	633	3.6	7.1	3.4
	Total	2 518	3 204	2 929	13 756	16 709	17 657	5.5	5.2	6.0
PEI	Total	199	257	106	824	2 025	273	4.1	7.9	2.6
NS	1	429	353	399	2 264	2 723	1 831	5.3	7.7	4.6
	2	372	244	241	2 106	913	1 025	5.7	3.7	4.2
	Total	802	597	641	4 370	3 636	2 856	5.5	6.1	4.5
NB	1	261	243	251	793	649	679	3.0	2.7	2.7
	2	138	131	138	639	669	442	4.6	5.1	3.2
	Total	399	374	389	1 433	1 318	1 121	3.6	3.5	2.9
Que.	1	4 247	3 475	4 611	22 022	16 986	23 162	5.2	4.9	5.0
	2	923	823	1 193	4 951	3 390	7 739	5.4	4.1	6.5
	Total	5 170	4 298	5 804	26 973	20 376	30 901	5.2	4.7	5.3
Ont.	1	386	454	787	1 373	1 386	1 220	3.6	3.1	1.6
	2	1 426	1 240	1 956	3 470	2 134	3 789	2.4	1.7	1.9
	3	430	175	355	1 220	915	544	2.8	5.2	1.5
	Total	2 243	1 869	3 100	6 065	4 435	5 554	2.7	2.4	1.8
Man.	1	70	399	373	562	1 565	2 231	8.0	3.9	6.0
	2	128	162	316	662	1 789	1 139	5.2	11.0	3.6
	Total	198	561	689	1 224	3 354	3 371	6.2	6.0	4.9
Sask.	1	146	77	147	261	714	1 051	1.8	9.2	7.1
	2	91	65	86	210	768	214	2.3	11.7	2.5
	3	229	153	76	486	466	362	2.1	3.0	4.7
	Total	467	295	311	958	1 948	1 629	2.1	6.6	5.2
Alta.	1	356	313	351	876	481	1 800	2.5	1.5	5.1
	2	828	565	483	5 119	2 477	3 045	6.2	4.4	6.3
	Total	1 185	878	834	5 995	2 958	4 845	5.1	3.4	5.8
BC	1	186	235	196	799	837	662	4.3	3.6	3.4
	2	345	299	304	845	1 845	669	2.5	6.2	2.2
	Total	532	534	501	1 644	2 682	1 332	3.1	5.0	2.7
NWT	Total	85	—	—	131	—	—	1.5	—	—
Yukon	Total	12	—	5	12	—	5	1.0	—	1.0
Canada	Total	13 815	12 867	15 313	63 390	59 441	69 549	4.6	4.6	4.5
No. sampled		539	443	425						
% sampled		3.90	3.44	2.78						

Table 10
Estimated number of successful hunters of American Coot and of their retrieved kill, 1980-82

Area	Survey stratum	Successful hunters			Birds killed			Average kill/ successful hunter		
		1980	1981	1982	1980	1981	1982	1980	1981	1982
Que.	1	2 531	1 681	1 995	6 536	7 019	5 588	2.6	4.2	2.8
	2	256	241	255	932	976	1 158	3.6	4.0	4.5
	Total	2 787	1 922	2 250	7 469	7 995	6 746	2.7	4.2	3.0
Ont.	1	361	363	592	696	1 166	2 371	1.9	3.2	4.0
	2	1 433	646	538	3 890	2 373	2 032	2.7	3.7	3.8
	3	345	204	449	1 380	786	1 552	4.0	3.8	3.5
	Total	2 140	1 213	1 580	5 967	4 325	5 956	2.8	3.6	3.8
Man.	1	113	379	270	311	1 084	952	2.8	2.9	3.5
	2	234	64	245	1 353	209	1 323	5.8	3.3	5.4
	Total	347	443	516	1 665	1 293	2 275	4.8	2.9	4.4
Sask.	1	292	86	74	1 630	1 157	589	5.6	13.3	7.9
	2	159	169	98	1 052	1 290	463	6.6	7.6	4.7
	3	270	162	149	2 430	1 036	832	9.0	6.4	5.6
	Total	722	417	322	5 113	3 483	1 886	7.1	8.3	5.9
Alta.	1	128	338	357	128	1 455	1 005	1.0	4.3	2.8
	2	675	575	270	2 871	2 265	597	4.3	3.9	2.2
	Total	803	913	628	3 000	3 720	1 602	3.7	4.1	2.6
BC	1	114	139	253	228	1 699	1 158	2.0	12.2	4.6
	2	87	82	163	174	232	408	2.0	2.8	2.5
	Total	201	221	417	402	1 931	1 567	2.0	8.7	3.8
NWT	Total	81	24	2	318	24	5	3.9	1.0	2.0
Yukon	Total	1	2	—	3	6	—	2.0	3.0	—
Canada	Total	7 086	5 155	5 729	23 940	22 777	20 162	3.4	4.4	3.5
No. sampled		225		164						
% sampled		3.18		2.86						

Table 11
Estimated number of successful hunters of Sandhill Crane and of their retrieved kill, 1980-82

Area	Survey stratum	Successful hunters			Birds killed			Average kill/ successful hunter		
		1980	1981	1982	1980	1981	1982	1980	1981	1982
Man.	Total	344	296	393	892	508	796	2.6	1.7	2.0
Sask.	Total	1 446	845	640	4 690	2 451	2 041	3.2	2.9	3.2
	Total	1 790	1 141	1 033	5 583	2 959	2 837	3.1	2.6	2.7
No. sampled		73	46	46						
% sampled		4.08	4.03	4.45						

Table 12
Estimated number of successful hunters of Mourning Dove and of their retrieved kill, 1980-82

Area	Survey stratum	Successful hunters			Birds killed			Average kill/ successful hunter		
		1980	1981	1982	1980	1981	1982	1980	1981	1982
BC	1	85	55	85	494	202	637	5.8	3.7	7.4
	2	87	84	121	277	1 271	641	3.2	15.0	5.3
	Total	172	139	207	772	1 473	1 278	4.5	10.6	6.2
No. sampled		9	8	11						
% sampled		5.23	5.76	5.31						

Table 13
Estimated number of successful hunters of Band-tailed Pigeon and of their retrieved kill, 1980-82

Area	Survey stratum	Successful hunters			Birds killed			Average kill/ successful hunter		
		1980	1981	1982	1980	1981	1982	1980	1981	1982
BC	1	64	58	15	672	149	31	10.4	2.6	2.0
	2	333	485	530	2 585	2 714	4 047	7.8	5.6	7.6
	Total	397	543	545	3 257	2 863	4 078	8.2	5.3	7.5
No. sampled		25	27	32						
% sampled		6.30	4.97	5.87						

Table 14
Estimated recreation activity provided by the hunting of migratory game birds other than waterfowl in 1982

Area	Survey stratum	Total permit sales ^a	Active hunters	Successful hunters	Retrieved kill	Recreation days	S. bag ^b (av.)	D. bag ^b (av.)	R. days ^b (av.)
Nfld.	1	28 209	5 192	2 754	17 145	57 577	3.3	0.3	11.1
	2	3 006	443	186	633	3 671	1.4	0.2	8.3
	Total	31 215	5 635	2 940	17 778	61 248	3.2	0.3	10.9
PEI	Total	5 461	708	149	519	5 650	0.7	0.1	8.0
NS	1	9 071	1 980	658	3 788	11 546	1.9	0.3	5.8
	2	4 657	1 013	436	2 532	5 417	2.5	0.5	5.3
	Total	13 728	2 993	1 094	6 320	16 963	2.1	0.4	5.7
NB	1	8 835	1 499	916	5 202	9 252	3.5	0.6	6.2
	2	3 924	699	437	2 611	5 581	3.7	0.5	8.0
	Total	12 759	2 198	1 353	7 813	14 833	3.6	0.5	6.7
Que.	1	57 008	13 737	9 474	59 886	78 255	4.4	0.8	5.7
	2	15 842	2 774	1 965	14 322	18 017	5.2	0.8	6.5
	Total	72 850	16 511	11 439	74 208	96 272	4.5	0.8	5.8
Ont.	1	39 420	7 196	4 340	24 762	40 375	3.4	0.6	5.6
	2	78 680	14 124	6 990	34 957	71 558	2.5	0.5	5.1
	3	26 336	3 293	2 003	10 681	19 435	3.2	0.5	5.9
	Total	144 436	24 613	13 333	70 400	131 368	2.9	0.5	5.3
Man.	1	37 678	3 219	1 024	4 211	10 192	1.3	0.4	3.2
	2	7 595	1 346	524	2 741	5 060	2.0	0.5	3.8
	Total	45 273	4 565	1 548	6 952	15 252	1.5	0.5	3.3
Sask.	1	17 974	1 514	318	2 118	7 603	1.4	0.3	5.0
	2	8 453	889	258	939	3 750	1.1	0.3	4.2
	3	20 809	2 087	606	2 884	7 159	1.4	0.4	3.4
	Total	47 236	4 490	1 182	5 941	18 512	1.3	0.3	4.1
Alta.	1	27 780	2 247	637	3 287	12 877	1.5	0.3	5.7
	2	37 188	2 767	701	3 807	15 327	1.4	0.2	5.5
	Total	64 968	5 014	1 338	7 094	28 204	1.4	0.3	5.6
BC	1	11 562	1 181	464	2 597	5 433	2.2	0.5	4.6
	2	14 960	1 796	1 073	5 767	9 413	3.2	0.6	5.2
	Total	26 522	2 977	1 537	8 364	14 846	2.8	0.6	5.0
NWT	Total	800	102	2	5	332	—	—	3.3
Yukon	Total	572	15	5	5	275	0.3	—	18.3
Canada	Total	465 820	69 821	35 920	205 399	403 755	2.9	0.5	5.8

^a Migratory game bird hunting permits.

^b *S. bag, seasonal bag per active hunter; D. bag, daily bag per active hunter; R. days, recreation days per active hunter.

Table 15
Precision of estimates at 90% confidence of duck and goose kill from the NHS, 1981-82

Area	Zone	Year	Active hunters (± %)	Duck harvest (± %)	Goose harvest (± %)	
Nfld.	01	1981	16 905 ± 6.29	90 438 ± 18.09	6 189 ± 35.58	
		1982	18 013 ± 6.33	83 603 ± 14.72	8 409 ± 29.08	
	02	1981	2 048 ± 13.23	16 948 ± 27.38	2 891 ± 41.32	
		1982	2 555 ± 15.54	27 877 ± 29.32	2 776 ± 44.86	
	PEI	01	1981	4 605 ± 6.96	25 041 ± 16.78	13 745 ± 23.23
		1982	4 801 ± 10.83	38 693 ± 24.64	13 427 ± 25.57	
NS	01	1981	5 759 ± 7.26	80 924 ± 15.35	5 521 ± 25.04	
		1982	5 380 ± 11.48	54 867 ± 18.17	2 857 ± 53.03	
	02	1981	3 824 ± 8.53	25 605 ± 17.13	1 937 ± 28.88	
		1982	4 113 ± 10.66	32 789 ± 21.18	2 504 ± 62.45	
NB	01	1981	5 937 ± 6.11	41 826 ± 11.62	1 641 ± 46.40	
		1982	6 183 ± 7.18	44 603 ± 15.63	1 189 ± 44.95	
	02	1981	2 727 ± 9.94	15 487 ± 15.38	2 567 ± 52.58	
		1982	2 744 ± 11.01	15 971 ± 17.08	1 585 ± 34.51	
Que.	01	1981	40 134 ± 4.42	379 671 ± 8.87	42 109 ± 25.30	
		1982	45 416 ± 5.42	407 231 ± 9.94	56 824 ± 18.98	
	02	1981	10 843 ± 7.98	93 212 ± 16.51	10 340 ± 27.84	
		1982	12 465 ± 8.58	105 390 ± 15.15	16 784 ± 25.47	
Ont.	01	1981	24 950 ± 5.23	202 692 ± 10.54	17 748 ± 16.73	
		1982	26 612 ± 6.62	228 902 ± 11.33	27 757 ± 19.30	
	02	1981	60 957 ± 4.87	447 958 ± 11.07	18 887 ± 27.44	
		1982	62 663 ± 6.10	449 920 ± 11.61	24 029 ± 23.66	
	03	1981	16 277 ± 6.28	141 298 ± 12.12	14 476 ± 21.50	
		1982	21 556 ± 7.01	182 800 ± 17.40	20 450 ± 22.04	
Man.	01	1981	28 002 ± 4.08	200 016 ± 9.36	108 661 ± 9.36	
		1982	28 093 ± 5.40	195 728 ± 9.80	121 564 ± 10.79	
	02	1981	9 652 ± 7.90	86 591 ± 13.01	30 531 ± 15.74	
		1982	8 815 ± 8.48	78 718 ± 14.40	35 199 ± 17.08	
Sask.	01	1981	13 819 ± 6.47	79 295 ± 11.84	73 405 ± 10.99	
		1982	13 036 ± 7.53	95 401 ± 14.58	79 549 ± 12.73	
	02	1981	6 514 ± 8.26	67 370 ± 13.83	18 226 ± 18.50	
		1982	8 971 ± 8.11	84 599 ± 14.50	24 038 ± 17.03	
	03	1981	13 740 ± 5.35	116 440 ± 9.74	43 364 ± 12.38	
		1982	15 629 ± 6.33	144 145 ± 10.95	47 409 ± 11.77	
Alta.	01	1981	21 632 ± 5.84	195 056 ± 21.01	68 205 ± 13.63	
		1982	18 929 ± 7.16	138 661 ± 12.34	54 336 ± 15.65	
	02	1981	26 437 ± 4.84	314 094 ± 8.89	52 981 ± 14.92	
		1982	29 740 ± 5.51	319 559 ± 9.23	65 546 ± 13.89	
BC	01	1981	8 528 ± 7.37	61 129 ± 13.29	8 556 ± 25.35	
		1982	8 153 ± 9.31	54 278 ± 15.13	7 818 ± 23.08	
	02	1981	7 700 ± 7.83	118 548 ± 13.05	10 393 ± 20.22	
		1982	9 179 ± 8.23	109 061 ± 14.05	9 835 ± 29.33	
NWT	01	1981	669 ± 34.43	4 920 ± 47.01	353 ± —	
	1982	699 ± 36.80	3 145 ± 54.71	493 ± 81.69		
Yukon	01	1981	278 ± 27.79	1 337 ± 40.92	258 ± 59.27	
	1982	293 ± 19.92	1 122 ± 31.74	118 ± 60.42		

Table 16
Net intensity of the Species Composition Survey, 1982

Area	Zone	Permit sales	Mailing size	Return rate	Est. resp. rate from suc. hunt.	Net cov. of hunt. population	Parts received
Nfld.	01	28 209	1 026	0.090	0.27	0.0051	258
	02	3 006	502	0.038	0.06	0.0074	74
PEI		5 461	1 126	0.131	0.21	0.0306	520
NS	01	9 071	2 087	0.120	0.23	0.0465	1 141
	02	4 657	1 232	0.155	0.31	0.0464	718
NB	01	8 835	961	0.135	0.25	0.0210	546
	02	3 924	1 026	0.043	0.11	0.0160	138
Que.	01	57 008	2 265	0.310	0.55	0.0155	3 516
	02	15 842	1 337	0.168	0.35	0.0175	999
Ont.	01	39 420	2 121	0.187	0.40	0.0149	1 878
	02	78 680	1 650	0.279	0.47	0.0073	2 033
	03	26 336	2 409	0.076	0.16	0.0084	791
Man.	01	37 678	1 107	0.286	0.46	0.0113	1 869
	02	7 595	404	0.208	0.34	0.0095	530
Sask.	01	17 974	504	0.248	0.39	0.0096	612
	02	8 453	499	0.148	0.25	0.0082	431
	03	20 809	593	0.310	0.50	0.0118	972
Alta.	01	27 780	709	0.127	0.23	0.0048	415
	02	37 188	782	0.139	0.26	0.0037	584
BC	01	11 562	1 762	0.058	0.13	0.0125	441
	02	14 960	1 524	0.135	0.27	0.0223	1 317
NWT		800	167	0.012	0.05	0.0029	2
Yukon		572	97	0.010	0.03	0.0034	2
Canada		465 820	25 890	0.160	0.30	0.0117	19 787

Table 17
Total waterfowl harvest in Canada

	Retrieved kill							
	1979		1980		1981		1982	
	Harvest	%	Harvest	%	Harvest	%	Harvest	%
Common Merganser	26 151	0.8	30 276	0.9	30 172	1.0	28 707	1.0
Red-breasted Merganser	11 783	0.3	14 417	0.4	13 419	0.5	20 254	0.7
Hooded Merganser	30 451	0.9	31 893	0.9	35 266	1.2	28 027	1.0
Mallard	1 612 464	46.8	1 534 150	45.1	1 294 122	43.7	1 213 686	41.8
Black Duck	316 627	9.2	365 229	10.7	325 874	11.0	337 344	11.6
Gadwall	103 568	3.0	93 719	2.8	54 063	1.8	98 216	3.4
American Wigeon	122 143	3.5	95 496	2.8	77 200	2.6	82 045	2.8
Green-winged Teal	162 731	4.7	175 798	5.2	177 345	6.0	202 583	7.0
Blue-winged Teal	109 007	3.3	89 397	2.6	74 015	2.5	79 248	2.7
Shoveler	48 291	1.4	49 893	1.5	33 530	1.1	37 872	1.3
Pintail	146 300	4.2	129 348	3.8	111 161	3.8	104 467	3.6
Wood Duck	113 528	3.3	118 054	3.5	124 151	4.2	117 130	4.0
Redhead	66 384	1.9	52 018	1.5	28 880	1.0	26 606	0.9
Canvasback	35 522	1.0	27 443	0.8	19 299	0.7	19 390	0.7
Greater Scaup	50 459	1.5	56 287	1.7	50 114	1.7	41 253	1.4
Lesser Scaup	99 103	2.9	138 098	4.1	126 895	4.3	111 087	3.8
Ring-necked Duck	126 370	3.7	128 889	3.8	118 660	4.0	124 104	4.3
Goldeneye	100 380	2.9	113 789	3.3	111 623	3.8	91 809	3.2
Bufflehead	61 762	1.8	55 386	1.6	51 387	1.7	36 864	1.3
Ruddy Duck	8 300	0.2	2 714	0.1	3 260	0.1	2 773	0.1
Total sport ducks	3 351 324	97.2	3 302 294	97.0	2 860 436	96.7	2 803 465	96.6
Oldsquaw	21 048	0.6	17 228	0.5	15 445	0.5	17 577	0.6
Common Eider	25 053	0.7	24 339	0.7	23 668	0.8	22 802	0.8
Common Scoter	17 295	0.5	16 119	0.5	22 868	0.8	15 439	0.5
White-winged Scoter	17 291	0.5	20 477	0.6	13 801	0.5	14 823	0.5
Surf Scoter	15 403	0.4	22 345	0.7	22 330	0.8	29 407	1.0
Total sea ducks	96 090	2.8	100 508	3.0	98 112	3.3	100 048	3.4
Total ducks	3 447 414	83.9	3 402 802	82.0	2 958 548	83.6	2 903 513	82.4
Canada Goose	431 462	65.4	462 146	62.0	363 709	62.7	408 595	65.5
Snow Goose	159 012	24.1	195 270	26.2	159 880	27.6	159 469	25.6
White-fronted Goose	60 938	9.2	79 011	10.6	52 532	9.1	50 939	8.2
Ross' Goose	8 283	1.3	4 816	0.6	3 082	0.5	4 504	0.7
Brant	524	0.1	4 018	0.5	556	0.1	379	0.1
Total geese	660 219	16.1	745 261	18.0	579 759	16.4	623 886	17.7
Total waterfowl	4 107 633	100.0	4 148 063	100.0	3 538 307	100.0	3 527 399	100.0

Table 18
Estimated retrieved kill of waterfowl in Newfoundland

Species	Zone	1979		1980		1981		1982	
		Kill	%	Kill	%	Kill	%	Kill	%
Common Merganser	01	5 666	6.0	3 342	4.0	6 372	6.8	2 148	2.3
	02	805	2.9	634	2.7	677	3.4	2 450	8.8
	Total	6 471	5.3	3 976	3.7	7 049	6.2	4 598	3.8
Red-breasted Merganser	01	1 344	1.4	6 713	8.1	2 513	2.7	1 438	1.6
	02	2 851	10.2	616	2.7	960	4.8	4 523	16.2
	Total	4 195	3.4	7 329	6.9	3 473	3.0	5 961	4.9
Hooded Merganser	01	45	0.0	519	0.6	168	0.2	0	0.0
	02	0	0.0	634	2.7	123	0.6	0	0.0
	Total	45	0.0	1 153	1.1	291	0.3	0	0.0
Mallard	01	0	0.0	0	0.0	2 398	2.5	460	0.5
	02	456	1.6	0	0.0	0	0.0	0	0.0
	Total	456	0.4	0	0.0	2 398	2.1	460	0.4
Black Duck	01	33 398	35.4	28 813	34.7	34 661	36.8	23 677	25.5
	02	8 274	29.6	2 483	10.7	6 586	32.8	4 743	17.0
	Total	41 672	34.1	31 296	29.5	41 247	36.1	28 420	23.6
American Wigeon	01	140	0.1	0	0.0	0	0.0	266	0.3
	02	0	0.0	0	0.0	282	1.4	103	0.4
	Total	140	0.1	0	0.0	282	0.2	369	0.3
Green-winged Teal	01	13 362	14.2	11 717	14.1	16 773	17.8	15 797	17.0
	02	4 283	15.3	771	3.3	901	4.5	0	0.0
	Total	17 645	14.4	12 488	11.8	17 674	15.5	15 797	13.1
Blue-winged Teal	01	230	0.2	0	0.0	413	0.4	0	0.0
	02	95	0.3	0	0.0	0	0.0	0	0.0
	Total	325	0.3	0	0.0	413	0.4	0	0.0
Pintail	01	370	0.4	688	0.8	798	0.8	0	0.0
	02	1 428	5.1	248	1.1	282	1.4	0	0.0
	Total	1 798	1.5	936	0.9	1 080	0.9	0	0.0
Wood Duck	01	2 169	2.3	0	0.0	0	0.0	0	0.0
	02	0	0.0	385	1.7	0	0.0	0	0.0
	Total	2 169	1.8	385	0.4	0	0.0	0	0.0
Greater Scaup	01	642	0.7	2 880	3.5	0	0.0	830	0.9
	02	0	0.0	368	1.6	443	2.2	320	1.1
	Total	642	0.5	3 248	3.1	443	0.4	1 150	1.0
Lesser Scaup	01	0	0.0	1 862	2.2	0	0.0	0	0.0
	02	267	1.0	1 541	6.7	2 206	11.0	480	1.7
	Total	267	0.2	3 403	3.2	2 206	1.9	480	0.4
Ring-necked Duck	01	12 555	13.3	3 726	4.5	7 559	8.0	6 522	7.0
	02	0	0.0	3 058	13.2	281	1.4	0	0.0
	Total	12 555	10.3	6 784	6.4	7 840	6.9	6 522	5.4
Goldeneye	01	11 227	11.9	10 502	12.7	14 497	15.4	10 843	11.7
	02	6 054	21.6	6 750	29.2	4 722	23.5	6 583	23.6
	Total	17 281	14.1	17 252	16.3	19 219	16.8	17 426	14.4
Bufflehead	01	0	0.0	0	0.0	0	0.0	214	0.2
	02	0	0.0	0	0.0	0	0.0	214	0.2
Total sport ducks		105 661	86.5	88 250	83.2	103 615	90.6	81 397	67.5

(cont'd)

Table 18 (cont'd)
Estimated retrieved kill of waterfowl in Newfoundland

Species	Zone	1979		1980		1981		1982	
		Kill	%	Kill	%	Kill	%	Kill	%
Oldsquaw	01	0	0.0	2 010	2.4	0	0.0	2 220	2.4
	02	0	0.0	0	0.0	1 921	9.6	0	0.0
	Total	0	0.0	2 010	1.9	1 921	1.7	2 220	1.8
Common Eider	01	11 205	11.9	6 545	7.9	2 612	2.8	9 151	9.9
	02	1 463	5.2	2 562	11.1	0	0.0	3 017	10.8
	Total	12 668	10.4	9 107	8.6	2 612	2.3	12 168	10.1
King Eider	01	0	0.0	0	0.0	0	0.0	460	0.5
	02	0	0.0	0	0.0	0	0.0	460	0.4
Harlequin Duck	01	0	0.0	0	0.0	0	0.0	9151	9.9
	02	0	0.0	0	0.0	0	0.0	9151	7.6
Common Scoter	01	1 504	1.6	111	0.1	3 564	3.8	4 594	5.0
	02	358	1.3	1 793	7.8	359	1.8	1 180	4.2
	Total	1 862	1.5	1 904	1.8	3 923	3.4	5 774	4.8
White-winged Scoter	01	0	0.0	2 725	3.3	906	1.0	424	0.5
	02	1 202	4.3	368	1.6	0	0.0	0	0.0
	Total	1 202	1.0	3 093	2.9	906	0.8	424	0.4
Surf Scoter	01	362	0.4	778	0.9	1 020	1.1	4 561	4.9
	02	446	1.6	896	3.9	355	1.8	4 478	16.1
	Total	808	0.7	1 674	1.6	1 375	1.2	9 039	7.5
Total sea ducks		16 540	13.5	17 788	16.8	10 737	9.4	39 236	32.5
Total ducks		122 201	90.0	106 038	90.7	114 352	91.9	120 633	91.5
Canada Goose	01	8 717	100.0	7 102	100.0	6 747	100.0	8 409	100.0
	02	4 896	100.0	3 713	100.0	3 329	100.0	2 776	100.0
	Total	13 613	100.0	10 815	100.0	10 076	100.0	11 185	100.0
Total geese		13 613	10.0	10 815	9.3	10 076	8.1	11 185	8.5
Waterfowl		135 814	100.0	116 853	100.0	124 428	100.0	131 818	100.0

(cont'd)

Table 18 (cont'd)
Estimated retrieved kill of waterfowl in Prince Edward Island

Species	Zone	1979		1980		1981		1982	
		Kill	%	Kill	%	Kill	%	Kill	%
Common Merganser		327	1.6	0	0.0	0	0.0	0	0.0
Red-breasted Merganser		269	1.3	0	0.0	118	0.4	418	1.1
Hooded Merganser		0	0.0	0	0.0	125	0.5	0	0.0
Mallard		450	2.1	1 001	3.1	1 398	5.3	399	1.0
Black Duck		12 667	60.5	21 532	67.6	16 044	61.2	25 348	63.9
Gadwall		0	0.0	0	0.0	68	0.3	0	0.0
American Wigeon		202	1.0	319	1.0	394	1.5	1 390	3.5
Green-winged Teal		5 302	25.3	7 049	22.1	6 304	24.0	8 246	20.8
Blue-winged Teal		817	3.9	394	1.2	569	2.2	719	1.8
Pintail		576	2.8	508	1.6	811	3.1	1 575	4.0
Wood Duck		0	0.0	0	0.0	87	0.3	41	0.1
Greater Scaup		0	0.0	150	0.5	0	0.0	149	0.4
Lesser Scaup		0	0.0	75	0.2	0	0.0	0	0.0
Ring-necked Duck		180	0.9	305	1.0	229	0.9	513	1.3
Goldeneye		90	0.4	399	1.3	44	0.2	843	2.1
Bufflehead		0	0.0	0	0.0	42	0.2	0	0.0
Ruddy Duck		64	0.3	0	0.0	0	0.0	0	0.0
Total sport ducks		20 944	100.0	31 732	99.6	26 233	100.0	39 641	100.0
Oldsquaw		0	0.0	68	0.2	0	0.0	0	0.0
Common Eider		0	0.0	61	0.2	0	0.0	0	0.0
Total sea ducks		0	0.0	129	0.4	0	0.0	0	0.0
Total ducks		20 944	66.6	31 861	62.8	26 233	64.6	39 641	74.7
Canada Goose		10 157	96.6	18 894	100.0	14 347	100.0	13 427	100.0
Large Canada Goose		362	3.4	0	0.0	0	0.0	0	0.0
Total geese		10 519	33.4	18 894	37.2	14 347	35.4	13 427	25.3
Waterfowl		31 463	100.0	50 755	100.0	40 580	100.0	53 068	100.0

(cont'd)

Table 18 (cont'd)
Estimated retrieved kill of waterfowl in Nova Scotia

Species	Zone	1979		1980		1981		1982	
		Kill	%	Kill	%	Kill	%	Kill	%
Common Merganser	01	1 116	1.8	702	0.8	2 002	2.3	408	0.7
	02	427	1.6	1 298	3.4	404	1.5	507	1.5
	Total	1 543	1.7	2 000	1.6	2406	2.1	915	1.0
Red-breasted Merganser	01	1 828	3.0	1 436	1.7	3 844	4.4	1 867	3.4
	02	177	0.7	726	1.9	467	1.7	610	1.9
	Total	2 005	2.3	2 162	1.7	4 311	3.8	2 477	2.8
Hooded Merganser	01	402	0.7	0	0.0	238	0.3	150	0.3
	02	276	1.0	22	0.1	193	0.7	40	0.1
	Total	678	0.8	22	0.0	431	0.4	190	0.2
Mallard	01	512	0.8	2 066	2.4	1 534	1.8	868	1.6
	02	259	1.0	1 150	3.0	845	3.1	508	1.5
	Total	771	0.9	3 216	2.6	2 379	2.1	1376	1.6
Black Duck	01	28 456	46.4	44 425	51.5	40 683	47.1	25 868	47.1
	02	15 462	57.1	24 244	62.9	17 228	63.3	21 313	65.0
	Total	43 918	49.7	68 669	55.1	57 911	51.0	47 181	53.8
Gadwall	01	0	0.0	0	0.0	31	0.0	0	0.0
	02	0	0.0	0	0.0	17	0.1	0	0.0
	Total	0	0.0	0	0.0	48	0.0	0	0.0
American Wigeon	01	147	0.2	38	0.0	94	0.1	140	0.3
	02	168	0.6	224	0.6	103	0.4	509	1.6
	Total	315	0.4	262	0.2	197	0.2	649	0.7
Green-winged Teal	01	5 480	8.9	8 545	9.9	7 556	8.7	5 423	9.9
	02	3 525	13.0	4 911	12.7	3 486	12.8	4 449	13.6
	Total	9 005	10.2	13 456	10.8	11 042	9.7	9 872	11.3
Blue-winged Teal	01	520	0.8	579	0.7	662	0.8	158	0.3
	02	1 084	4.0	830	2.2	483	1.8	1 200	3.7
	Total	1 604	1.8	1 409	1.1	1 145	1.0	1 358	1.5
Shoveler	01	0	0.0	0	0.0	217	0.3	0	0.0
	02	0	0.0	0	0.0	0	0.0	40	0.1
	Total	0	0.0	0	0.0	217	0.2	40	0.0
Pintail	01	392	0.6	546	0.6	760	0.9	519	0.9
	02	111	0.4	184	0.5	266	1.0	610	1.9
	Total	503	0.6	730	0.6	1 026	0.9	1 129	1.3
Wood Duck	01	703	1.1	229	0.3	359	0.4	324	0.6
	02	240	0.9	348	0.9	132	0.5	364	1.1
	Total	943	1.1	577	0.5	491	0.4	688	0.8
Redhead	02	16	0.1	0	0.0	51	0.2	0	0.0
	Total	16	0.0	0	0.0	51	0.0	0	0.0
Greater Scaup	01	88	0.1	611	0.7	167	0.2	238	0.4
	02	211	0.8	196	0.5	35	0.1	104	0.3
	Total	299	0.3	807	0.6	202	0.2	342	0.4
Lesser Scaup	01	46	0.1	295	0.3	401	0.5	334	0.6
	02	161	0.6	261	0.7	251	0.9	23	0.1
	Total	207	0.2	556	0.4	652	0.6	357	0.4

(cont'd)

Table 18 (cont'd)
Estimated retrieved kill of waterfowl in Nova Scotia

Species	Zone	1979		1980		1981		1982	
		Kill	%	Kill	%	Kill	%	Kill	%
Ring-necked Duck	01	2 068	3.4	2 325	2.7	1 555	1.8	2 014	3.7
	02	1 897	7.0	784	2.0	678	2.5	1 136	3.5
	Total	3 965	4.5	3 109	2.5	2 233	2.0	3 150	3.6
Goldeneye	01	2 103	3.4	3 557	4.1	1 471	1.7	1 979	3.6
	02	1 039	3.8	2 676	6.9	1 358	5.0	127	0.4
	Total	3 142	3.6	6 233	5.0	2 829	2.5	2 106	2.4
Bufflehead	01	1 377	2.2	1 213	1.4	608	0.7	664	1.2
	02	447	1.7	109	0.3	338	1.2	327	1.0
	Total	1 824	2.1	1 322	1.1	946	0.8	991	1.1
Total sport ducks		70 738	80.0	104 530	83.8	88 517	77.9	72 821	83.1
Oldsquaw	01	4 597	7.5	4 188	4.9	1 543	1.8	1 338	2.4
	02	865	3.2	321	0.8	358	1.3	0	0.0
	Total	5 462	6.2	4 509	3.6	1 901	1.7	1 338	1.5
Common Eider	01	6 235	10.2	7 886	9.1	11 150	12.9	6 078	11.1
	02	80	0.3	44	0.1	61	0.2	333	1.0
	Total	6 315	7.1	7 930	6.4	11 211	9.9	6 411	7.3
King Eider	01	93	0.2	0	0.0	0	0.0	0	0.0
	Total	93	0.1	0	0.0	0	0.0	0	0.0
Harlequin Duck	01	108	0.2	0	0.0	0	0.0	0	0.0
	Total	108	0.1	0	0.0	0	0.0	0	0.0
Common Scoter	01	2 144	3.5	1 130	1.3	4 574	5.3	2 672	4.9
	02	62	0.2	0	0.0	61	0.2	0	0.0
	Total	2 206	2.5	1 130	0.9	4 635	4.1	2 672	3.0
White-winged Scoter	01	665	1.1	3 072	3.6	1 416	1.6	1 394	2.5
	02	406	1.5	192	0.5	0	0.0	196	0.6
	Total	1 071	1.2	3 264	2.6	1 416	1.2	1 590	1.8
Surf Scoter	01	2 230	3.6	3 347	3.9	5 525	6.4	2 428	4.8
	02	161	0.6	26	0.1	396	1.5	391	1.2
	Total	2 391	2.7	3 373	2.7	5 921	5.2	2 819	3.2
Total sea ducks		17 646	20.0	20 206	16.2	25 084	22.1	14 830	16.9
Total ducks		88 384	93.5	124 736	93.7	113 601	93.7	87 651	94.2
Canada Goose	01	4 383	100.0	6 033	100.0	5 639	100.0	2 857	100.0
	02	1 767	100.0	2 346	97.6	1 982	99.2	2 459	98.2
	Total	6 150	100.0	8 379	99.3	7 621	99.8	5 316	99.2
Snow Goose	02	0	0.0	58	2.4	0	0.0	0	0.0
	Total	0	0.0	58	0.7	0	0.0	0	0.0
Greater Snow Goose	02	0	0.0	0	0.0	15	0.8	45	1.8
	Total	0	0.0	0	0.0	15	0.2	45	0.8
Total geese		6 150	6.5	8 437	6.3	7 636	6.3	5 361	5.8
Waterfowl		94 534	100.0	133 173	100.0	121 237	100.0	93 012	100.0

(cont'd)

Table 18 (cont'd)
Estimated retrieved kill of waterfowl in New Brunswick

Species	Zone	1979		1980		1981		1982	
		Kill	%	Kill	%	Kill	%	Kill	%
Common Merganser	01	179	0.5	491	1.1	331	0.8	23	0.1
	02	590	4.7	194	1.3	606	3.8	1 922	12.0
	Total	769	1.6	685	1.1	937	1.6	1 945	3.2
Red-breasted Merganser	01	46	0.1	0	0.0	68	0.2	1 219	2.7
	02	248	2.0	129	0.9	263	1.6	130	0.8
	Total	294	0.6	129	0.2	331	0.6	1 349	2.2
Hooded Merganser	01	431	1.2	168	0.4	254	0.6	119	0.3
	02	82	0.7	337	2.2	374	2.3	0	0.0
	Total	513	1.0	505	0.8	628	1.1	119	0.2
Mallard	01	896	2.4	993	2.2	1 791	4.2	1 394	3.1
	02	708	5.7	395	2.6	695	4.3	454	2.8
	Total	1 604	3.3	1 388	2.3	2 486	4.2	1 848	3.1
Black Duck	01	12 531	34.2	19 368	43.3	17 024	39.7	23 067	51.7
	02	4 842	38.7	8 904	58.8	9 913	61.4	8 142	51.0
	Total	17 373	35.4	28 272	47.2	26 937	45.7	31 209	51.5
Gadwall	01	0	0.0	31	0.1	0	0.0	0	0.0
	Total	0	0.0	31	0.1	0	0.0	0	0.0
American Wigeon	01	1 328	3.6	1 540	3.4	827	1.9	2 080	4.7
	02	334	2.7	143	0.9	133	0.8	188	1.2
	Total	1 662	3.4	1 683	2.8	960	1.6	2 268	3.7
Green-winged Teal	01	5 049	13.8	4 832	10.8	6 886	16.1	6 817	15.3
	02	2 272	18.2	1 255	8.3	1 745	10.8	622	3.9
	Total	7 321	14.9	6 087	10.2	8 631	14.6	7 439	12.3
Blue-winged Teal	01	4 558	12.4	3 429	7.7	2 480	5.8	1 731	3.9
	02	1 162	9.3	513	3.4	222	1.4	2 213	13.9
	Total	5 720	11.6	3 942	6.6	2 702	4.6	3 944	6.5
Shoveler	01	46	0.1	131	0.3	59	0.1	0	0.0
	Total	46	0.1	131	0.2	59	0.1	0	0.0
Pintail	01	775	2.1	658	1.5	737	1.7	1 401	3.1
	02	307	2.5	592	3.9	440	2.7	118	0.7
	Total	1 082	2.2	1 250	2.1	1 177	2.0	1 519	2.5
Wood Duck	01	1 268	3.5	2 573	5.7	2 386	5.6	2 379	5.3
	02	164	1.3	380	2.5	199	1.2	77	0.5
	Total	1 432	2.9	2 953	4.9	2 585	4.4	2 456	4.1
Redhead	01	0	0.0	31	0.1	34	0.1	0	0.0
	Total	0	0.0	31	0.1	34	0.1	0	0.0
Greater Scaup	01	472	1.3	159	0.4	512	1.2	38	0.1
	02	0	0.0	196	1.3	400	2.5	718	4.5
	Total	472	1.0	355	0.6	912	1.5	756	1.2
Lesser Scaup	01	294	0.8	548	1.2	430	1.0	278	0.6
	02	83	0.7	233	1.5	215	1.3	0	0.0
	Total	377	0.8	781	1.3	645	1.1	278	0.5
Ring-necked Duck	01	3 184	8.7	5 003	11.2	4 574	10.7	1 289	2.9
	02	342	2.7	485	3.2	181	1.1	354	2.2
	Total	3 526	7.2	5 488	9.2	4 755	8.1	1 643	2.7

(cont'd)

Table 18 (cont'd)
Estimated retrieved kill of waterfowl in New Brunswick

Species	Zone	1979		1980		1981		1982	
		Kill	%	Kill	%	Kill	%	Kill	%
Goldeneye	01	4 395	12.0	3 826	8.5	3 065	7.2	1 760	3.9
	02	1 037	8.3	439	2.9	162	1.0	905	5.7
	Total	5 432	11.1	4 265	7.1	3 227	5.5	2 665	4.4
Bufflehead	01	357	1.0	256	0.6	85	0.2	536	1.2
	Total	357	0.7	256	0.4	85	0.1	536	0.9
Total sport ducks		47 980	97.7	58 232	97.2	57 091	96.8	59 974	99.0
Oldsquaw	01	237	0.6	38	0.1	508	1.2	0	0.0
	02	259	2.1	305	2.0	487	3.0	77	0.5
	Total	496	1.0	343	0.6	995	1.7	77	0.1
Common Eider	01	244	0.7	399	0.9	415	1.0	131	0.3
	02	0	0.0	0	0.0	0	0.0	50	0.3
	Total	244	0.5	399	0.7	415	0.7	181	0.3
Common Scoter	01	46	0.1	0	0.0	169	0.4	0	0.0
	02	27	0.2	0	0.0	0	0.0	0	0.0
	Total	73	0.1	0	0.0	169	0.3	0	0.0
White-winged Scoter	01	149	0.4	99	0.2	118	0.3	122	0.3
	02	0	0.0	104	0.7	0	0.0	0	0.0
	Total	149	0.3	203	0.3	118	0.2	122	0.2
Surf Scoter	01	126	0.3	193	0.4	93	0.2	218	0.5
	02	49	0.4	534	3.5	122	0.8	0	0.0
	Total	175	0.4	727	1.2	215	0.4	218	0.4
Total sea ducks		1 137	2.3	1 672	2.8	1 912	3.2	598	1.0
Total ducks		49 117	94.9	59 904	95.1	59 003	93.2	60 572	95.6
Canada Goose	01	1 153	100.0	1 493	100.0	1 641	100.0	1 189	100.0
	02	1 475	100.0	1 422	90.1	2 638	100.0	1 585	100.0
	Total	2 628	100.0	2 915	94.9	4 279	100.0	2 774	100.0
Large Canada Goose	02	0	0.0	157	9.9	0	0.0	0	0.0
	Total	0	0.0	157	5.1	0	0.0	0	0.0
Total geese		2 628	5.1	3 072	4.9	4 279	6.8	2 774	4.4
Waterfowl		51 745	100.0	62 976	100.0	63 282	100.0	63 346	100.0

(cont'd)

Table 18 (cont'd)
Estimated retrieved kill of waterfowl in Quebec

Species	Zone	1979		1980		1981		1982	
		Kill	%	Kill	%	Kill	%	Kill	%
Common Merganser	01	10 309	2.8	11 152	2.9	9 189	2.2	11 112	2.7
	02	1 578	1.8	4 659	4.2	4 310	4.4	5 063	4.8
	Total	11 887	2.6	15 811	3.2	13 499	2.7	16 175	3.2
Red-breasted Merganser	01	2 229	0.6	2 624	0.7	2 525	0.6	4 241	1.0
	02	1 106	1.3	814	0.7	1 192	1.2	3 185	3.0
	Total	3 335	0.7	3 438	0.7	3 717	0.7	7 426	1.4
Hooded Merganser	01	7 273	2.0	7 445	1.9	8 382	2.0	7 964	2.0
	02	3 074	3.5	1 213	1.1	1 697	1.7	1 840	1.7
	Total	10 347	2.2	8 658	1.7	10 079	2.0	9 804	1.9
Mallard	01	58 278	15.6	71 247	18.4	83 240	20.4	83 280	20.5
	02	9 972	11.4	10 057	9.0	9 594	9.7	11 528	11.0
	Total	68 250	14.8	81 304	16.3	92 834	18.3	94 808	18.5
Black Duck	01	82 441	22.1	78 521	20.2	74 375	18.2	81 927	20.1
	02	30 617	35.0	41 878	37.3	31 173	31.5	35 920	34.1
	Total	113 058	24.6	120 399	24.1	105 548	20.8	117 847	23.0
Gadwall	01	9 528	2.6	10 283	2.6	6 075	1.5	7 406	1.8
	02	231	0.3	420	0.4	43	0.0	0	0.0
	Total	9 759	2.1	10 703	2.1	6 118	1.2	7 406	1.4
American Wigeon	01	7 688	2.1	6 173	1.6	5 595	1.4	5 527	1.4
	02	1 436	1.6	1 040	0.9	557	0.6	161	0.2
	Total	9 124	2.0	7 213	1.4	6 152	1.2	5 688	1.1
Green-winged Teal	01	27 241	7.3	31 454	8.1	36 400	8.9	54 456	13.4
	02	8 375	9.6	14 279	12.7	11 514	11.6	11 675	11.1
	Total	35 616	7.7	45 733	9.1	47 914	9.4	66 131	12.9
Blue-winged Teal	01	12 617	3.4	8 297	2.1	6 648	1.6	11 996	2.9
	02	1 367	1.6	2 027	1.8	2 100	2.1	2 772	2.6
	Total	13 984	3.0	10 324	2.1	8 748	1.7	14 768	2.9
Shoveler	01	2 320	0.6	4 943	1.3	5 482	1.3	2 966	0.7
	02	210	0.2	192	0.2	85	0.1	167	0.2
	Total	2 530	0.5	5 135	1.0	5 567	1.1	3 133	0.6
Pintail	01	13 213	3.5	12 395	3.2	14 539	3.6	17 002	4.2
	02	2 100	2.4	4 704	4.2	2 923	3.0	3 292	3.1
	Total	15 313	3.3	17 099	3.4	17 462	3.4	20 294	4.0
Wood Duck	01	17 585	4.7	16 450	4.2	23 972	5.9	19 438	4.8
	02	928	1.1	1 160	1.0	1 242	1.3	1 559	1.5
	Total	18 513	4.0	17 610	3.5	25 214	5.0	20 997	4.1
Redhead	01	3 300	0.9	2 582	0.7	978	0.2	1 818	0.4
	02	0	0.0	0	0.0	85	0.1	212	0.2
	Total	3 300	0.7	2 582	0.5	1 063	0.2	2 030	0.4
Canvasback	01	3 980	1.1	3 035	0.8	578	0.1	1 488	0.4
	Total	3 980	0.9	3 035	0.6	578	0.1	1 488	0.3
Greater Scaup	01	19 673	5.3	17 898	4.6	20 029	4.9	14 624	3.6
	02	741	0.8	1 386	1.2	2 574	2.6	892	0.8
	Total	20 414	4.4	19 284	3.9	22 603	4.5	15 516	3.0
Lesser Scaup	01	24 395	6.5	25 910	6.7	29 340	7.2	16 230	4.0
	02	2 171	2.5	2 836	2.5	4 028	4.1	3 460	3.3
	Total	26 566	5.8	28 746	5.7	33 368	6.6	19 690	3.8

(cont'd)

Table 18 (cont'd)
Estimated retrieved kill of waterfowl in Quebec

Species	Zone	1979		1980		1981		1982	
		Kill	%	Kill	%	Kill	%	Kill	%
Ring-necked Duck	01	15 669	4.2	16 419	4.2	16 447	4.0	18 282	4.5
	02	2 259	2.6	4 778	4.3	4 227	4.3	3 070	2.9
	Total	17 928	3.9	21 197	4.2	20 674	4.1	21 352	4.2
Goldeneye	01	21 669	5.8	22 401	5.8	23 070	5.6	16 141	4.0
	02	5 223	6.0	6 374	5.7	5 326	5.4	4 855	4.6
	Total	26 892	5.8	28 775	5.8	28 396	5.6	20 996	4.1
Bufflehead	01	7 157	1.9	4 985	1.3	8 007	2.0	3 391	0.8
	02	578	0.7	100	0.1	975	1.0	764	0.7
	Total	7 735	1.7	5 085	1.0	8 982	1.8	4 155	0.8
Ruddy Duck	01	1 398	0.4	0	0.0	107	0.0	0	0.0
	Total	1 398	0.3	0	0.0	107	0.0	0	0.0
Total sport ducks		419 929	91.2	452 131	90.4	458 623	90.3	469 704	91.7
Oldsquaw	01	7 786	2.1	6 057	1.6	2 929	0.7	7 503	1.8
	02	3 685	4.2	1 880	1.7	4 840	4.9	2 787	2.6
	Total	11 471	2.5	7 937	1.6	7 769	1.5	10 290	2.0
Common Eider	01	506	0.1	686	0.2	2 961	0.7	772	0.2
	02	4 762	5.4	6 156	5.5	6 469	6.5	2 713	2.6
	Total	5 268	1.1	6 842	1.4	9 430	1.9	3 485	0.7
King Eider	01	280	0.1	0	0.0	296	0.1	0	0.0
	Total	280	0.1	0	0.0	296	0.1	0	0.0
Common Scoter	01	9 836	2.6	10 742	2.8	9 520	2.3	3 959	1.0
	02	983	1.1	1 529	1.4	1 860	1.9	1 936	1.8
	Total	10 819	2.4	12 271	2.5	11 380	2.2	5 895	1.2
White-winged Scoter	01	6 407	1.7	10 002	2.6	7 391	1.8	7 212	1.8
	02	2 025	2.3	809	0.7	632	0.6	415	0.4
	Total	8 432	1.8	10 811	2.2	8 023	1.6	7 627	1.5
Surf Scoter	01	0	0.0	6 398	1.6	10 864	2.7	8 494	2.1
	02	4 155	4.7	3 855	3.4	1 539	1.6	6 957	6.6
	Total	4 155	0.9	10 253	2.0	12 403	2.4	15 451	3.0
Total sea ducks		40 425	8.8	48 114	9.6	49 301	9.7	42 748	8.3
Total ducks		460 354	85.2	500 245	80.3	507 924	90.1	512 452	87.4
Canada Goose	01	38 144	61.5	28 750	33.3	14 942	33.6	15 697	27.6
	02	14 550	82.3	22 636	61.6	9 859	86.4	13 667	81.4
	Total	52 694	66.1	51 386	41.8	24 801	44.4	29 364	39.9
Snow Goose	01	3 556	5.7	8 454	9.8	0	0.0	1 256	2.2
	02	1 219	6.9	4 596	12.5	0	0.0	0	0.0
	Total	4 775	6.0	13 050	10.6	0	0.0	1 256	1.7
Blue Goose	01	0	0.0	0	0.0	478	1.1	520	0.9
	02	0	0.0	114	0.3	97	0.8	0	0.0
	Total	0	0.0	114	0.1	575	1.0	520	0.7
Greater Snow Goose	01	19 863	32.0	45 993	53.3	29 015	65.3	38 972	68.6
	02	1 919	10.8	9 392	25.6	1 461	12.8	3 117	18.6
	Total	21 782	27.3	55 385	45.0	30 476	54.6	42 089	57.2
Brant	01	416	0.7	3 093	3.6	0	0.0	379	0.7
	Total	416	0.5	3 093	2.5	0	0.0	379	0.5
Total geese		79 667	14.8	123 028	19.7	55 852	9.9	73 608	12.6
Waterfowl		540 021	100.0	623 273	100.0	563 776	100.0	586 060	100.0

(cont'd)

Table 18 (cont'd)
Estimated retrieved kill of waterfowl in Ontario

Species	Zone	1979		1980		1981		1982	
		Kill	%	Kill	%	Kill	%	Kill	%
Common Merganser	01	610	0.2	420	0.2	349	0.2	988	0.4
	02	2 053	0.5	4 860	1.0	1 989	0.4	1 572	0.3
	03	2 249	1.2	2 123	1.2	2 963	2.0	1 340	0.7
	Total	4 912	0.6	7 403	0.8	5 301	0.6	3 900	0.5
Red-breasted Merganser	01	245	0.1	360	0.1	838	0.4	302	0.1
	02	726	0.2	253	0.1	463	0.1	438	0.1
	03	478	0.3	0	0.0	168	0.1	537	0.3
	Total	1 449	0.2	613	0.1	1 469	0.2	1 277	0.1
Hooded Merganser	01	1 257	0.5	1 136	0.5	852	0.4	1 140	0.5
	02	12 624	3.0	14 310	2.9	17 222	3.6	9 409	2.1
	03	4 534	2.5	5 301	3.1	4 280	2.9	6 949	3.8
	Total	18 415	2.2	20 747	2.3	22 354	2.6	17 498	2.0
Mallard	01	93 235	37.6	91 001	36.3	92 068	42.1	112 524	49.1
	02	122 844	29.4	149 601	30.5	144 656	29.9	166 729	37.1
	03	49 518	27.5	49 870	29.1	44 658	30.2	54 434	29.8
	Total	265 597	31.4	290 472	31.8	281 382	33.1	333 687	38.7
Black Duck	01	16 714	6.7	19 306	7.7	17 906	8.2	20 640	9.0
	02	44 132	10.6	46 366	9.5	43 321	9.0	42 888	9.5
	03	25 905	14.4	26 982	15.7	16 364	11.1	23 196	12.7
	Total	86 751	10.3	92 654	10.2	77 591	9.1	86 724	10.1
Gadwall	01	3 788	1.5	3 611	1.4	2 286	1.0	3 821	1.7
	02	2 161	0.5	3 331	0.7	4 007	0.8	6 065	1.3
	03	433	0.2	510	0.3	86	0.1	866	0.5
	Total	6 382	0.8	7 452	0.8	6 379	0.8	10 752	1.2
American Wigeon	01	13 861	5.6	5 601	2.2	7 582	3.5	4 911	2.1
	02	6 911	1.7	7 533	1.5	3 466	0.7	5 120	1.1
	03	4 479	2.5	2 990	1.7	1 871	1.3	293	0.2
	Total	25 251	3.0	16 124	1.8	12 919	1.5	10 324	1.2
Green-winged Teal	01	10 418	4.2	10 931	4.4	11 023	5.0	10 814	4.7
	02	14 033	3.4	20 293	4.1	27 129	5.6	21 097	4.7
	03	6 440	3.6	12 098	7.1	5 406	3.7	4 843	2.6
	Total	30 891	3.7	43 322	4.7	43 558	5.1	36 754	4.3
Blue-winged Teal	01	8 511	3.4	4 188	1.7	4 864	2.2	3 872	1.7
	02	16 943	4.1	15 669	3.2	18 547	3.8	23 149	5.1
	03	6 447	3.6	5 890	3.4	4 075	2.8	5 195	2.8
	Total	31 901	3.8	25 747	2.8	27 486	3.2	32 216	3.7
Shoveler	01	1 071	0.4	216	0.1	956	0.4	556	0.2
	02	595	0.1	828	0.2	1 967	0.4	543	0.1
	03	304	0.2	273	0.2	298	0.2	0	0.0
	Total	1 970	0.2	1 317	0.1	3 221	0.4	1 099	0.1
Pintail	01	3 947	1.6	5 804	2.3	5 487	2.5	3 974	1.7
	02	3 045	0.7	5 282	1.1	3 531	0.7	2 635	0.6
	03	2 115	1.2	2 188	1.3	2 605	1.8	3 626	2.0
	Total	9 107	1.1	13 274	1.5	11 623	1.4	10 235	1.2
Wood Duck	01	13 919	5.6	12 902	5.1	13 789	6.3	17 456	7.6
	02	64 781	15.5	73 172	14.9	69 419	14.4	67 359	15.0
	03	10 167	5.6	7 089	4.1	8 606	5.8	6 578	3.6
	Total	88 867	10.5	93 163	10.2	91 814	10.8	91 393	10.6

(cont'd)

Table 18 (cont'd)
Estimated retrieved kill of waterfowl in Ontario

Species	Zone	1979		1980		1981		1982	
		Kill	%	Kill	%	Kill	%	Kill	%
Redhead	01	19 455	7.8	20 317	8.1	8 227	3.8	7 489	3.3
	02	6 061	1.5	10 001	2.0	2 562	0.5	4 242	0.9
	03	1 991	1.1	1 481	0.9	896	0.6	0	0.0
	Total	27 507	3.3	31 799	3.5	11 685	1.4	11 731	1.4
Canvasback	01	10 969	4.4	8 600	3.4	5 821	2.7	4 764	2.1
	02	2 768	0.7	1 887	0.4	588	0.1	1 407	0.3
	03	969	0.5	828	0.5	1 489	1.0	144	0.1
	Total	14 706	1.7	11 315	1.2	7 898	0.9	6 315	0.7
Greater Scaup	01	8 009	3.2	13 666	5.5	9 333	4.3	7 199	3.1
	02	15 282	3.7	15 139	3.1	12 506	2.6	8 063	1.8
	03	3 155	1.8	2 098	1.2	2 086	1.4	1 426	0.8
	Total	26 446	3.1	30 903	3.4	23 925	2.8	16 688	1.9
Lesser Scaup	01	10 259	4.1	23 391	9.3	15 390	7.0	10 821	4.7
	02	13 303	3.2	21 785	4.4	26 743	5.5	17 213	3.8
	03	11 541	6.4	10 351	6.0	15 338	10.4	12 244	6.7
	Total	35 103	4.2	55 527	6.1	57 471	6.8	40 278	4.7
Ring-necked Duck	01	5 227	2.1	5 815	2.3	5 859	2.7	5 500	2.4
	02	37 607	9.0	47 567	9.7	48 032	9.9	31 150	6.9
	03	29 873	16.6	24 231	14.1	20 580	13.9	38 603	21.1
	Total	72 707	8.6	77 613	8.5	74 471	8.8	75 253	8.7
Goldeneye	01	4 726	1.9	10 093	4.0	2 963	1.4	3 597	1.6
	02	21 219	5.1	26 302	5.4	32 155	6.7	26 443	5.9
	03	9 474	5.3	9 135	5.3	7 735	5.2	11 285	6.2
	Total	35 419	4.2	45 530	5.0	42 853	5.0	41 325	4.8
Bufflehead	01	14 881	6.0	11 088	4.4	9 638	4.4	6 375	2.8
	02	18 569	4.4	19 360	4.0	19 733	4.1	9 727	2.2
	03	5 639	3.1	4 472	2.6	6 876	4.6	7 661	4.2
	Total	39 089	4.6	34 920	3.8	36 247	4.3	23 763	2.8
Ruddy Duck	01	2 533	1.0	1 081	0.4	1 944	0.9	1 608	0.7
	02	329	0.1	0	0.0	0	0.0	399	0.1
	03	0	0.0	376	0.2	0	0.0	0	0.0
	Total	2 862	0.3	1 457	0.2	1 944	0.2	2 007	0.2
Total sport ducks		825 332	97.6	901 352	98.8	841 591	99.0	853 219	99.0
Oldsquaw	01	563	0.2	369	0.1	190	0.1	144	0.1
	02	2 472	0.6	1 395	0.3	1 606	0.3	2 467	0.5
	03	584	0.3	355	0.2	0	0.0	1 041	0.6
	Total	3 619	0.4	2 119	0.2	1 796	0.2	3 652	0.4
Common Eider	02	558	0.1	0	0.0	0	0.0	0	0.0
	Total	558	0.1	0	0.0	0	0.0	0	0.0
Harlequin Duck	01	0	0.0	0	0.0	0	0.0	406	0.2
	03	146	0.1	0	0.0	0	0.0	0	0.0
	Total	146	0.0	0	0.0	0	0.0	406	0.0

(cont'd)

Table 18 (cont'd)
Estimated retrieved kill of waterfowl in Ontario

Species	Zone	1979		1980		1981		1982	
		Kill	%	Kill	%	Kill	%	Kill	%
Common Scoter	01	0	0.0	252	0.1	338	0.2	0	0.0
	02	1 384	0.3	253	0.1	1 634	0.3	378	0.1
	03	624	0.3	309	0.2	733	0.5	720	0.4
	Total	2 008	0.2	814	0.1	2 705	0.3	1 098	0.1
White-winged Scoter	01	2 402	1.0	271	0.1	536	0.2	406	0.2
	02	1 851	0.4	2 015	0.4	1 488	0.3	1 096	0.2
	03	1 632	0.9	707	0.4	523	0.4	714	0.4
	Total	5 885	0.7	2 993	0.3	2 547	0.3	2 216	0.3
Surf Scoter	01	1 345	0.5	212	0.1	606	0.3	0	0.0
	02	5 071	1.2	2 761	0.6	417	0.1	329	0.1
	03	1 458	0.8	1 885	1.1	447	0.3	1 105	0.6
	Total	7 874	0.9	4 858	0.5	1 470	0.2	1 435	0.2
Total sea ducks		20 090	2.4	10 784	1.2	8 518	1.0	8 807	1.0
Total ducks		845 422	91.7	912 136	91.4	850 109	94.2	862 026	92.3
Canada Goose	01	21 174	95.9	22 143	96.9	13 915	76.2	27 757	100.0
	02	27 121	97.2	43 235	98.5	15 342	78.8	24 029	100.0
	03	17 657	67.7	12 350	64.1	7 594	50.4	14 364	70.2
	Total	65 952	86.7	77 728	90.4	36 851	69.8	66 150	91.6
Small Canada Goose	03	0	0.0	0	0.0	139	0.9	4 208	20.6
	Total	0	0.0	0	0.0	139	0.3	4 208	5.8
Large Canada Goose	01	0	0.0	0	0.0	3 454	18.9	0	0.0
	02	0	0.0	0	0.0	4 093	21.0	0	0.0
	03	0	0.0	158	0.8	649	4.3	0	0.0
	Total	0	0.0	158	0.2	8 196	15.5	0	0.0
Snow Goose	01	804	3.6	720	3.1	132	0.7	0	0.0
	02	673	2.4	209	0.5	21	0.1	0	0.0
	03	4 959	19.0	6 268	32.5	2 505	16.6	149	0.7
	Total	6 436	8.5	7 197	8.4	2 658	5.0	149	0.2
Blue Goose	01	96	0.4	0	0.0	392	2.1	0	0.0
	02	0	0.0	0	0.0	21	0.1	0	0.0
	03	3 449	13.2	402	2.1	3 850	25.6	1 432	7.0
	Total	3 545	4.7	402	0.5	4 263	8.1	1 432	2.0
Greater Snow Goose	03	0	0.0	94	0.5	139	0.9	297	1.5
	Total	0	0.0	94	0.1	139	0.3	297	0.4
Brant	01	0	0.0	0	0.0	369	2.0	0	0.0
	02	108	0.4	434	1.0	0	0.0	0	0.0
	03	0	0.0	0	0.0	187	1.2	0	0.0
	Total	108	0.1	434	0.5	556	1.1	0	0.0
Total geese		76 041	8.3	86 013	8.6	52 802	5.8	72 236	7.7
Waterfowl		921 463	100.0	998 149	100.0	902 911	100.0	934 262	100.0

(cont'd)

Table 18 (cont'd)
Estimated retrieved kill of waterfowl in Manitoba

Species	Zone	1979		1980		1981		1982	
		Kill	%	Kill	%	Kill	%	Kill	%
Common Merganser	02	0	0.0	0	0.0	0	0.0	1 108	1.4
	Total	0	0.0	0	0.0	0	0.0	1 108	0.4
Red-Breasted Merganser	02	0	0.0	0	0.0	0	0.0	1 346	1.7
	Total	0	0.0	0	0.0	0	0.0	1 346	0.5
Hooded Merganser	01	0	0.0	339	0.2	183	0.1	416	0.2
	02	453	0.4	171	0.2	938	1.1	0	0.0
	Total	453	0.1	510	0.2	1 121	0.4	416	0.1
Mallard	01	155 003	59.2	125 766	56.4	123 419	60.0	106 435	52.7
	02	90 114	74.1	84 226	75.2	51 147	57.9	43 886	55.8
	Total	245 117	63.9	209 992	62.7	174 566	59.4	150 321	53.5
Black Duck	01	0	0.0	1 591	0.7	119	0.1	164	0.1
	02	260	0.2	551	0.5	241	0.3	0	0.0
	Total	260	0.1	2 142	0.6	360	0.1	164	0.1
Gadwall	01	13 324	5.1	9 520	4.3	9 290	4.5	8 767	4.3
	02	2 893	2.4	1 616	1.4	4 990	5.6	2 210	2.8
	Total	16 217	4.2	11 136	3.3	14 280	4.9	10 977	3.9
American Wigeon	01	8 066	3.1	7 123	3.2	6 293	3.1	2 849	1.4
	02	2 024	1.7	2 106	1.9	1 444	1.6	940	1.2
	Total	10 090	2.6	9 229	2.8	7 737	2.6	3 789	1.3
Green-winged Teal	01	5 467	2.1	7 810	3.5	10 243	5.0	5 189	2.6
	02	5 374	4.4	5 137	4.6	4 166	4.7	1 893	2.4
	Total	10 841	2.8	12 947	3.9	14 409	4.9	7 082	2.5
Blue-winged Teal	01	11 581	4.4	8 800	3.9	7 897	3.8	7 592	3.8
	02	3 898	3.2	2 695	2.4	4 074	4.6	5 352	6.8
	Total	15 479	4.0	11 495	3.4	11 971	4.1	12 944	4.6
Shoveler	01	8 359	3.2	5 419	2.4	7 390	3.6	4 873	2.4
	02	646	0.5	890	0.8	250	0.3	1 491	1.9
	Total	9 005	2.3	6 309	1.9	7 640	2.6	6 364	2.3
Pintail	01	15 136	5.8	8 698	3.9	10 117	4.9	8 947	4.4
	02	5 178	4.3	3 980	3.6	4 979	5.6	5 304	6.7
	Total	20 314	5.3	12 678	3.8	15 096	5.1	14 251	5.1
Wood Duck	01	757	0.3	1 616	0.7	1 033	0.5	377	0.2
	02	0	0.0	559	0.5	828	0.9	0	0.0
	Total	757	0.2	2 175	0.6	1 861	0.6	377	0.1
Redhead	01	8 189	3.1	3 211	1.4	4 676	2.3	6 414	3.2
	02	3 862	3.2	1 956	1.7	3 211	3.6	2 340	3.0
	Total	12 051	3.1	5 167	1.5	7 887	2.7	8 754	3.1
Canvasback	01	6 526	2.5	4 502	2.0	3 619	1.8	5 713	2.8
	02	362	0.3	341	0.3	317	0.4	2 196	2.8
	Total	6 888	1.8	4 843	1.4	3 936	1.3	7 909	2.8
Greater Scaup	01	375	0.1	763	0.3	540	0.3	6 414	3.2
	02	322	0.3	0	0.0	938	1.1	0	0.0
	Total	697	0.2	763	0.2	1 478	0.5	6 414	2.3
Lesser Scaup	01	13 000	5.0	24 687	11.1	12 628	6.1	23 316	11.5
	02	3 144	2.6	2 772	2.5	5 847	6.6	4 661	5.9
	Total	16 144	4.2	27 459	8.2	18 475	6.3	27 977	10.0

(cont'd)

Table 18 (cont'd)
Estimated retrieved kill of waterfowl in Manitoba

Species	Zone	1979		1980		1981		1982	
		Kill	%	Kill	%	Kill	%	Kill	%
Ring-necked Duck	01	9 395	3.6	9 324	4.2	5 877	2.9	8 367	4.1
	02	2 209	1.8	3 295	2.9	1 104	1.2	4 276	5.4
	Total	11 604	3.0	12 619	3.8	6 981	2.4	12 643	4.5
Goldeneye	01	1 490	0.6	1 771	0.8	1 065	0.5	2 355	1.2
	02	843	0.7	856	0.8	2 146	2.4	871	1.1
	Total	2 333	0.6	2 627	0.8	3 211	1.1	3 226	1.1
Bufflehead	01	3 005	1.1	1 572	0.7	747	0.4	2 818	1.4
	02	0	0.0	388	0.3	216	0.2	566	0.7
	Total	3 005	0.8	1 960	0.6	963	0.3	3 384	1.2
Ruddy Duck	01	2 127	0.8	384	0.2	439	0.2	578	0.3
	Total	2 127	0.6	384	0.1	439	0.1	578	0.2
Total sport ducks		383 382	100.0	334 435	99.8	292 411	99.5	280 024	99.7
Oldsquaw	02	0	0.0	242	0.2	938	1.1	0	0.0
	Total	0	0.0	242	0.1	938	0.3	0	0.0
Common Eider	01	0	0.0	0	0.0	0	0.0	557	0.3
	Total	0	0.0	0	0.0	0	0.0	557	0.2
King Eider	01	0	0.0	203	0.1	0	0.0	0	0.0
	02	0	0.0	121	0.1	0	0.0	0	0.0
	Total	0	0.0	324	0.1	0	0.0	0	0.0
Surf Scoter	02	0	0.0	121	0.1	581	0.7	277	0.4
	Total	0	0.0	121	0.0	581	0.2	277	0.1
Total sea ducks		0	0.0	687	0.2	1 519	0.5	834	0.3
Total ducks		383 382	66.2	335 122	66.3	293 930	66.5	280 858	64.2
Canada Goose	01	390	0.3	4 103	3.0	864	0.7	1 935	1.6
	02	1 172	2.8	3 487	10.1	571	1.8	457	1.3
	Total	1 562	0.8	7 590	4.5	1 435	1.0	2 392	1.5
Small Canada Goose	01	28 722	18.7	14 386	10.6	12 314	10.6	14 018	11.5
	02	9 823	23.4	6 833	19.8	2 736	8.6	5 809	16.5
	Total	38 545	19.7	21 219	12.5	15 050	10.2	19 827	12.6
Large Canada Goose	01	36 233	23.6	32 079	23.6	30 396	26.2	36 734	30.2
	02	21 652	51.6	14 502	42.1	10 198	31.9	14 861	42.2
	Total	57 885	29.6	46 581	27.4	40 594	27.5	51 595	32.9
Snow Goose	01	59 619	38.8	68 932	50.8	39 340	34.0	35 562	29.3
	02	6 435	15.3	7 358	21.3	13 625	42.7	7 005	19.9
	Total	66 054	33.8	76 290	44.8	52 965	35.8	42 567	27.2
Blue Goose	01	28 203	18.3	14 194	10.5	32 025	27.6	32 329	26.6
	02	2 677	6.4	612	1.8	3 431	10.7	6 923	19.7
	Total	30 880	15.8	14 806	8.7	35 456	24.0	39 252	25.0
Greater Snow Goose	01	0	0.0	0	0.0	303	0.3	0	0.0
	02	0	0.0	0	0.0	0	0.0	144	0.4
	Total	0	0.0	0	0.0	303	0.2	144	0.1
White-fronted Goose	01	105	0.1	1 057	0.8	324	0.3	296	0.2
	02	0	0.0	1 679	4.9	984	3.1	0	0.0
	Total	105	0.1	2 736	1.6	1 308	0.9	296	0.2
Ross' Goose	01	456	0.3	925	0.7	303	0.3	690	0.6
	02	208	0.5	0	0.0	396	1.2	0	0.0
	Total	664	0.3	925	0.5	699	0.5	690	0.4
Total geese		195 695	33.8	170 147	33.7	147 810	33.5	156 763	35.8
Waterfowl		579 077	100.0	505 269	100.0	441 740	100.0	437 621	100.0

(cont'd)

Table 18 (cont'd)
Estimated retrieved kill of waterfowl in Saskatchewan

Species	Zone	1979		1980		1981		1982	
		Kill	%	Kill	%	Kill	%	Kill	%
Common Merganser	02	0	0.0	0	0.0	168	0.2	0	0.0
	Total	0	0.0	0	0.0	168	0.1	0	0.0
Hooded Merganser	02	0	0.0	152	0.1	0	0.0	0	0.0
	Total	0	0.0	152	0.0	0	0.0	0	0.0
Mallard	01	117 330	67.7	116 997	81.0	68 721	83.5	71 046	74.5
	02	119 394	77.3	107 808	83.1	55 082	78.2	64 080	75.7
	03	185 940	72.9	129 841	76.7	106 391	88.3	106 006	73.5
	Total	422 664	72.5	354 646	80.0	230 194	84.2	241 132	74.4
Black Duck	01	0	0.0	265	0.2	0	0.0	451	0.5
	02	396	0.3	0	0.0	193	0.3	0	0.0
	Total	396	0.1	265	0.1	193	0.1	451	0.1
Gadwall	01	15 470	8.9	9 390	6.5	2 495	3.0	4 940	5.2
	02	6 415	4.2	4 269	3.3	4 071	5.8	10 191	12.0
	03	15 875	6.2	8 211	4.8	2 588	2.1	11 641	8.1
	Total	37 760	6.5	21 870	4.9	9 154	3.4	26 772	8.3
American Wigeon	01	5 992	3.5	3 927	2.7	6 617	8.0	5 111	5.4
	02	2 989	1.9	2 817	2.2	2 037	2.9	2 291	2.7
	03	11 067	4.3	6 363	3.8	2 578	2.1	3 902	2.7
	Total	20 048	3.4	13 107	3.0	11 232	4.1	11 304	3.5
Green-winged Teal	01	2 398	1.4	796	0.6	434	0.5	1 963	2.1
	02	4 120	2.7	2 057	1.6	3 478	4.9	179	0.2
	03	2 037	0.8	1 128	0.7	1 909	1.6	1 761	1.2
	Total	8 555	1.5	3 981	0.9	5 821	2.1	3 903	1.2
Blue-winged Teal	01	6 438	3.7	2 806	1.9	2 244	2.7	1 150	1.2
	02	4 319	2.8	2 314	1.8	1 220	1.7	189	0.2
	03	6 144	2.4	4 282	2.5	1 078	0.9	573	0.4
	Total	16 901	2.9	9 402	2.1	4 542	1.7	1 912	0.6
Shoveler	01	3 626	2.1	1 579	1.1	217	0.3	3 040	3.2
	02	2 749	1.8	2 437	1.9	707	1.0	2 262	2.7
	03	8 319	3.3	4 282	2.5	938	0.8	6 411	4.4
	Total	14 694	2.5	8 298	1.9	1 862	0.7	11 713	3.6
Pintail	01	11 915	6.9	4 596	3.2	0	0.0	5 997	6.3
	02	5 211	3.4	4 084	3.1	366	0.5	1 310	1.5
	03	12 457	4.9	9 265	5.5	1 921	1.6	5 380	3.7
	Total	29 583	5.1	17 945	4.0	2 287	0.8	12 687	3.9
Wood Duck	03	106	0.0	0	0.0	0	0.0	0	0.0
	Total	106	0.0	0	0.0	0	0.0	0	0.0
Redhead	01	4 954	2.9	366	0.3	1 144	1.4	0	0.0
	02	2 938	1.9	1 009	0.8	173	0.2	359	0.4
	03	4 656	1.8	2 993	1.8	1 314	1.1	2 010	1.4
	Total	12 548	2.2	4 368	1.0	2 631	1.0	2 369	0.7
Canvasback	01	3 991	2.3	880	0.6	217	0.3	0	0.0
	02	1 283	0.8	152	0.1	336	0.5	189	0.2
	03	2 319	0.9	260	0.2	319	0.3	3 125	2.2
	Total	7 593	1.3	1 292	0.3	872	0.3	3 314	1.0
Lesser Scaup	01	547	0.3	2 333	1.6	217	0.3	1 226	1.3
	02	2 042	1.3	563	0.4	1 765	2.5	2 609	3.1
	03	4 779	1.9	2 065	1.2	1 435	1.2	2 928	2.0
	Total	7 368	1.3	4 961	1.1	3 417	1.3	6 763	2.1

(cont'd)

Table 18 (cont'd)
Estimated retrieved kill of waterfowl in Saskatchewan

Species	Zone	1979		1980		1981		1982	
		Kill	%	Kill	%	Kill	%	Kill	%
Ring-necked Duck	01	0	0.0	0	0.0	0	0.0	477	0.5
	02	354	0.2	608	0.5	0	0.0	764	0.9
	03	844	0.3	152	0.1	0	0.0	0	0.0
	Total	1 198	0.2	760	0.2	0	0.0	1 241	0.4
Goldeneye	01	465	0.3	0	0.0	0	0.0	0	0.0
	02	201	0.1	337	0.3	534	0.8	179	0.2
	03	0	0.0	0	0.0	0	0.0	205	0.1
	Total	666	0.1	337	0.1	534	0.2	384	0.1
Bufflehead	01	0	0.0	511	0.4	0	0.0	0	0.0
	02	1 261	0.8	638	0.5	345	0.5	0	0.0
	03	266	0.1	489	0.3	0	0.0	202	0.1
	Total	1 527	0.3	1 638	0.4	345	0.1	202	0.1
Ruddy Duck	01	210	0.1	0	0.0	0	0.0	0	0.0
	02	499	0.3	529	0.4	0	0.0	0	0.0
	Total	709	0.1	529	0.1	0	0.0	0	0.0
Total sport ducks		582 316	99.9	443 551	100.0	273 252	100.0	324 147	100.0
White-winged Scoter	02	226	0.1	0	0.0	0	0.0	0	0.0
	03	151	0.1	0	0.0	0	0.0	0	0.0
	Total	377	0.1	0	0.0	0	0.0	0	0.0
Total sea ducks		377	0.1	0	0.0	0	0.0	0	0.0
Total ducks		582 693	79.3	443 551	72.1	273 252	65.9	324 147	68.2
Canada Goose	01	309	0.4	4 136	4.0	0	0.0	2 609	3.3
	02	0	0.0	54	0.3	0	0.0	248	1.0
	03	1 179	2.4	449	0.9	78	0.2	962	2.0
	Total	1 488	1.0	4 639	2.7	78	0.1	3 819	2.5
Small Canada Goose	01	22 751	28.2	31 865	31.1	19 555	25.5	23 192	29.2
	02	2 697	12.0	2 009	11.2	2 285	11.7	1 103	4.6
	03	2 930	6.0	6 400	12.6	3 702	8.2	4 964	10.5
	Total	28 378	18.6	40 274	23.5	25 542	18.1	29 259	19.4
Large Canada Goose	01	10 239	12.7	16 441	16.0	22 503	29.4	15 893	20.0
	02	17 338	76.9	10 030	55.7	14 636	74.9	16 680	69.4
	03	26 065	53.1	22 873	44.9	24 292	53.7	20 427	43.1
	Total	53 642	35.2	49 344	28.8	61 431	43.4	53 000	35.1
Snow Goose	01	8 526	10.6	7 714	7.5	7 718	10.1	10 097	12.7
	02	0	0.0	0	0.0	0	0.0	1 054	4.4
	03	3 057	6.2	7 195	14.1	5 579	12.3	6 903	14.6
	Total	11 583	7.6	14 909	8.7	13 297	9.4	18 054	12.0
Blue Goose	01	679	0.8	1 415	1.4	464	0.6	890	1.1
	02	0	0.0	0	0.0	214	1.1	134	0.6
	03	883	1.8	177	0.3	1 747	3.9	2 912	6.1
	Total	1 562	1.0	1 592	0.9	2 425	1.7	3 936	2.6
Greater Snow Goose	01	0	0.0	0	0.0	76	0.1	0	0.0
	03	0	0.0	0	0.0	0	0.0	335	0.7
	Total	0	0.0	0	0.0	76	0.1	335	0.2
White-fronted Goose	01	32 494	40.2	38 768	37.8	24 599	32.1	24 665	31.0
	02	1 941	8.6	4 978	27.6	2 409	12.3	4 553	18.9
	03	14 744	30.0	13 676	26.8	9 548	21.1	9 924	20.9
	Total	49 179	32.3	57 422	33.5	36 556	25.9	39 142	25.9
Ross' Goose	01	5 786	7.2	1 877	1.8	1 710	2.2	2 202	2.8
	02	578	2.6	937	5.2	0	0.0	268	1.1
	03	238	0.5	171	0.3	273	0.6	981	2.1
	Total	6 602	4.3	2 985	1.7	1 983	1.4	3 451	2.3
Brant	01	0	0.0	223	0.2	0	0.0	0	0.0
	Total	0	0.0	223	0.1	0	0.0	0	0.0
Total geese		152 434	20.7	171 388	27.9	141 388	34.1	150 996	31.8
Waterfowl		735 127	100.0	614 939	100.0	414 640	100.0	475 143	100.0

(cont'd)

Table 18 (cont'd)
Estimated retrieved kill of waterfowl in Alberta

Species	Zone	1979		1980		1981		1982	
		Kill	%	Kill	%	Kill	%	Kill	%
Common Merganser	02	175	0.0	0	0.0	386	0.1	0	0.0
	Total	175	0.0	0	0.0	386	0.1	0	0.0
Mallard	01	130 023	65.2	108 112	59.2	138 470	69.0	96 179	69.4
	02	356 450	74.3	374 268	73.9	249 779	76.9	198 862	62.2
	Total	486 473	71.6	482 380	70.0	388 249	73.9	295 041	64.4
Black Duck	01	251	0.1	0	0.0	0	0.0	0	0.0
	Total	251	0.0	0	0.0	0	0.0	0	0.0
Gadwall	01	15 009	7.5	12 153	6.7	5 547	2.8	13 807	10.0
	02	17 418	3.6	29 663	5.9	11 724	3.6	22 273	7.0
	Total	32 427	4.8	41 816	6.1	17 271	3.3	36 080	7.9
American Wigeon	01	11 416	5.7	11 840	6.5	8 112	4.0	1 661	1.2
	02	14 378	3.0	11 812	2.3	10 587	3.3	21 016	6.6
	Total	25 794	3.8	23 652	3.4	18 699	3.6	22 677	4.9
Green-winged Teal	01	3 800	1.9	7 280	4.0	4 066	2.0	6 214	4.5
	02	13 468	2.8	6 207	1.2	4 327	1.3	25 757	8.1
	Total	17 268	2.5	13 487	2.0	8 393	1.6	31 971	7.0
Blue-winged Teal	01	4 874	2.4	9 025	4.9	4 734	2.4	212	0.2
	02	15 207	3.2	16 314	3.2	7 851	2.4	10 982	3.4
	Total	20 081	3.0	25 339	3.7	12 585	2.4	11 194	2.4
Shoveler	01	4 700	2.4	6 934	3.8	3 804	1.9	4 630	3.3
	02	13 097	2.7	18 744	3.7	8 622	2.7	7 749	2.4
	Total	17 797	2.6	25 678	3.7	12 426	2.4	12 379	2.7
Pintail	01	20 595	10.3	20 161	11.0	19 120	9.5	8 844	6.4
	02	27 666	5.8	23 713	4.7	21 841	6.7	19 884	6.2
	Total	48 261	7.1	43 874	6.4	40 961	7.8	28 728	6.3
Wood Duck	01	0	0.0	0	0.0	318	0.2	0	0.0
	Total	0	0.0	0	0.0	318	0.1	0	0.0
Redhead	01	2 393	1.2	2 679	1.5	3 305	1.6	1 373	1.0
	02	8 211	1.7	5 266	1.0	1 787	0.5	312	0.1
	Total	10 604	1.6	7 945	1.2	5 092	0.1	1 685	0.4
Canvasback	01	783	0.4	719	0.4	2 537	1.3	0	0.0
	02	1 572	0.3	4 883	1.0	2 927	0.9	364	0.1
	Total	2 355	0.3	5 602	0.8	5 464	1.0	364	0.1
Lesser Scaup	01	3 634	1.8	2 246	1.2	5 148	2.6	2 472	1.8
	02	6 339	1.3	10 904	2.2	3 317	1.0	10 958	3.4
	Total	9 973	1.5	13 150	1.9	8 465	1.6	13 430	2.9
Ring-necked Duck	01	0	0.0	262	0.1	359	0.2	0	0.0
	02	475	0.1	303	0.1	0	0.0	0	0.0
	Total	475	0.1	565	0.1	359	0.1	0	0.0

(cont'd)

Table 18 (cont'd)
Estimated retrieved kill of waterfowl in Alberta

Species	Zone	1979		1980		1981		1982	
		Kill	%	Kill	%	Kill	%	Kill	%
Goldeneye	01	278	0.1	438	0.2	4 059	2.0	713	0.5
	02	1 168	0.2	1 643	0.3	549	0.2	728	0.2
	Total	1 446	0.2	2 081	0.3	4 608	0.9	1 441	0.3
Bufflehead	01	1 103	0.6	586	0.3	867	0.4	1 185	0.9
	02	2 954	0.6	2 300	0.5	954	0.3	364	0.1
	Total	4 057	0.6	2 886	0.4	1 821	0.3	1 549	0.3
Ruddy Duck	01	0	0.0	86	0.0	158	0.1	188	0.1
	02	1 140	0.2	258	0.1	307	0.1	0	0.0
	Total	1 140	0.2	344	0.0	465	0.1	188	0.0
Total sport ducks		678 577	99.9	688 799	100.0	525 562	100.0	456 727	99.7
Harlequin Duck	01	583	0.3	0	0.0	0	0.0	0	0.0
	Total	583	0.1	0	0.0	0	0.0	0	0.0
White-winged Scoter	01	0	0.0	0	0.0	0	0.0	1 185	0.9
	02	175	0.0	0	0.0	0	0.0	312	0.1
	Total	175	0.0	0	0.0	0	0.0	1 497	0.3
Total sea ducks		758	0.1	0	0.0	0	0.0	1 497	0.3
Total ducks		679 335	86.6	688 799	83.8	525 562	80.7	458 224	79.3
Canada Goose	01	728	1.4	1 844	2.6	625	0.9	2 552	4.7
	02	250	0.5	1 813	2.9	526	1.0	18 232	27.8
	Total	978	0.9	3 657	2.7	1 151	0.9	20 784	17.3
Small Canada Goose	01	11 284	21.3	11 456	16.4	12 802	18.2	10 644	19.6
	02	17 796	34.4	14 911	23.5	19 527	35.4	3 756	5.7
	Total	29 080	27.8	26 367	19.8	32 329	25.8	14 400	12.0
Large Canada Goose	01	24 043	45.4	37 987	54.4	39 280	55.8	28 593	52.6
	02	28 710	55.5	35 700	56.3	24 074	43.7	37 609	57.4
	Total	52 753	50.4	73 687	55.3	63 354	50.5	66 202	55.2
Snow Goose	01	8 787	16.6	6 829	9.8	10 148	14.4	5 789	10.7
	02	684	1.3	2 974	4.7	3 778	6.9	844	1.3
	Total	9 471	9.0	9 803	7.4	13 926	11.1	6 633	5.5
White-fronted Goose	01	7 311	13.8	11 205	16.1	7 556	10.7	6 396	11.8
	02	4 108	7.9	7 571	11.9	6 806	12.3	5 105	7.8
	Total	11 419	10.9	18 776	14.1	14 362	11.4	11 501	9.6
Ross' Goose	01	856	1.6	450	0.6	0	0.0	363	0.7
	02	161	0.3	456	0.7	400	0.7	0	0.0
	Total	1 017	1.0	906	0.7	400	0.3	363	0.3
Total geese		104 718	13.4	133 196	16.2	125 522	19.3	119 883	20.7
Waterfowl		784 053	100.0	821 995	100.0	651 084	100.0	578 107	100.0

(cont'd)

Table 18 (cont'd)
Estimated retrieved kill of waterfowl in British Columbia

Species	Zone	1979		1980		1981		1982	
		Kill	%	Kill	%	Kill	%	Kill	%
Common Merganser	01	0	0.0	0	0.0	190	0.3	66	0.1
	02	67	0.0	55	0.0	236	0.2	0	0.0
	Total	67	0.0	55	0.0	426	0.2	66	0.0
Red-breasted Merganser	02	236	0.2	0	0.0	0	0.0	0	0.0
	Total	236	0.1	0	0.0	0	0.0	0	0.0
Hooded Merganser	01	0	0.0	89	0.1	44	0.1	0	0.0
	02	0	0.0	57	0.1	193	0.2	0	0.0
	Total	0	0.0	146	0.1	237	0.1	0	0.0
Mallard	01	40 195	59.2	41 884	56.8	39 821	61.7	35 206	65.2
	02	76 315	55.9	61 467	54.6	75 159	60.7	56 263	51.6
	Total	116 510	57.0	103 351	55.5	114 980	61.1	91 469	56.1
Black Duck	01	281	0.4	0	0.0	0	0.0	0	0.0
	02	0	0.0	0	0.0	43	0.0	0	0.0
	Total	281	0.1	0	0.0	43	0.0	0	0.0
Gadwall	01	152	0.2	159	0.2	175	0.3	400	0.7
	02	853	0.6	552	0.5	570	0.5	5 829	5.3
	Total	1 005	0.5	711	0.4	745	0.4	6 229	3.8
American Wigeon	01	5 818	8.6	6 979	9.5	3 298	5.1	5 924	11.0
	02	21 909	16.1	16 268	14.5	14 175	11.4	17 663	16.2
	Total	27 727	13.6	23 247	12.5	17 473	9.3	23 587	14.5
Green-winged Teal	01	4 881	7.2	7 043	9.5	2 662	4.1	1 127	2.1
	02	13 945	10.2	9 217	8.2	10 692	8.6	14 261	13.1
	Total	18 826	9.2	16 260	8.7	13 354	7.1	15 388	9.4
Blue-winged Teal	01	1 880	2.8	991	1.3	3 682	5.7	0	0.0
	02	315	0.2	222	0.2	172	0.1	193	0.2
	Total	2 195	1.1	1 213	0.7	3 854	2.0	193	0.1
Shoveler	01	560	0.8	666	0.9	807	1.3	2 605	4.8
	02	939	0.7	1 668	1.5	1 616	1.3	539	0.5
	Total	1 499	0.7	2 334	1.3	2 423	1.3	3 144	1.9
Pintail	01	1 838	2.7	5 270	7.1	3 638	5.6	2 303	4.3
	02	16 034	11.7	15 645	13.9	15 569	12.6	11 746	10.8
	Total	17 872	8.7	20 915	11.2	19 207	10.2	14 049	8.6
Wood Duck	01	0	0.0	221	0.3	290	0.4	0	0.0
	02	741	0.5	970	0.9	1 491	1.2	1 178	1.1
	Total	741	0.4	1 191	0.6	1 781	0.9	1 178	0.7
Redhead	01	358	0.5	0	0.0	296	0.5	37	0.1
	02	0	0.0	126	0.1	141	0.1	0	0.0
	Total	358	0.2	126	0.1	437	0.2	37	0.0
Canvasback	01	0	0.0	487	0.7	477	0.7	0	0.0
	02	0	0.0	869	0.8	74	0.1	0	0.0
	Total	0	0.0	1 356	0.7	551	0.3	0	0.0
Greater Scaup	01	134	0.2	243	0.3	379	0.6	88	0.2
	02	1 355	1.0	534	0.5	172	0.1	150	0.1
	Total	1 489	0.7	777	0.4	551	0.3	238	0.1

(cont'd)

Table 18 (cont'd)
Estimated retrieved kill of waterfowl in British Columbia

Species	Zone	1979		1980		1981		1982	
		Kill	%	Kill	%	Kill	%	Kill	%
Lesser Scaup	01	1 338	2.0	1 640	2.2	1 174	1.8	1 742	3.2
	02	569	0.4	436	0.4	0	0.0	92	0.1
	Total	1 907	0.9	2 076	1.1	1 174	0.6	1 834	1.1
Ring-necked Duck	01	1 878	2.8	317	0.4	945	1.5	1 566	2.9
	02	336	0.2	0	0.0	152	0.1	221	0.2
	Total	2 214	1.1	317	0.2	1 097	0.6	1 787	1.1
Goldeneye	01	6 464	9.5	3 825	5.2	3 814	5.9	657	1.2
	02	935	0.7	1 122	1.0	2 888	2.3	179	0.2
	Total	7 399	3.6	4 947	2.7	6 702	3.6	836	0.5
Bufflehead	01	2 153	3.2	3 837	5.2	1 679	2.6	894	1.7
	02	1 913	1.4	3 085	2.7	277	0.2	615	0.6
	Total	4 066	2.0	6 922	3.7	1 956	1.0	1 509	0.9
Ruddy Duck	01	0	0.0	0	0.0	305	0.5	0	0.0
Total	0	0.0	0	0.0	305	0.2	0	0.0	
Total sport ducks		204 392	100.0	185 944	99.8	187 296	99.5	161 544	99.1
Harlequin Duck	01	0	0.0	106	0.1	0	0.0	0	0.0
	Total	0	0.0	106	0.1	0	0.0	0	0.0
Common Scoter	01	0	0.0	0	0.0	56	0.1	0	0.0
	Total	0	0.0	0	0.0	56	0.0	0	0.0
White-winged Scoter	01	0	0.0	0	0.0	660	1.0	1 347	2.5
	02	0	0.0	113	0.1	0	0.0	0	0.0
	Total	0	0.0	113	0.1	660	0.4	1 347	0.8
Surf Scoter	01	0	0.0	0	0.0	111	0.2	37	0.1
	02	0	0.0	111	0.1	193	0.2	131	0.1
	Total	0	0.0	111	0.1	304	0.2	168	0.1
Total sea ducks		0	0.0	330	0.2	1 020	0.5	1 515	0.9
Total ducks		204 392	92.3	186 274	90.9	188 316	90.5	163 059	90.2
Canada Goose	01	919	10.0	9 506	97.0	83	0.9	7 605	97.3
	02	404	5.1	7 040	78.7	0	0.0	6 807	69.2
	Total	1 323	7.7	16 546	88.3	83	0.4	14 412	81.6
Small Canada Goose	01	1 816	19.7	0	0.0	2 342	26.5	213	2.7
	02	463	5.9	0	0.0	1 753	16.0	0	0.0
	Total	2 279	13.3	0	0.0	4 095	20.7	213	1.2
Large Canada Goose	01	6 469	70.3	48	0.5	6 219	70.5	0	0.0
	02	5 152	65.2	240	2.7	5 787	52.8	268	2.7
	Total	11 621	67.9	288	1.5	12 006	60.7	268	1.5
Snow Goose	01	0	0.0	0	0.0	159	1.8	0	0.0
	02	1 799	22.8	1 570	17.5	3 147	28.7	2 760	28.1
	Total	1 799	10.5	1 570	8.4	3 306	16.7	2 760	15.6
White-fronted Goose	01	0	0.0	77	0.8	23	0.3	0	0.0
	02	89	1.1	0	0.0	272	2.5	0	0.0
	Total	89	0.5	77	0.4	295	1.5	0	0.0
Brant	01	0	0.0	167	1.7	0	0.0	0	0.0
	02	0	0.0	101	1.1	0	0.0	0	0.0
	Total	0	0.0	268	1.4	0	0.0	0	0.0
Total geese		17 111	7.7	18 749	9.1	19 785	9.5	17 653	9.8
Waterfowl		221 503	100.0	205 023	100.0	208 101	100.0	180 712	100.0

(cont'd)

Table 18 (cont'd)
Estimated retrieved kill of waterfowl in Northwest Territories

Species	Zone	1979		1980		1981		1982	
		Kill	%	Kill	%	Kill	%	Kill	%
Common Merganser		0	0.0	346	3.0	0	0.0	0	0.0
Red-breasted Merganser		0	0.0	746	6.5	0	0.0	0	0.0
Mallard		2 715	28.8	4 994	43.2	2 397	47.7	3 145	100.0
American Wigeon		1 473	15.6	554	4.8	1 155	23.0	0	0.0
Green-winged Teal		1 261	13.4	441	3.8	245	4.9	0	0.0
Blue-winged Teal		0	0.0	132	1.1	0	0.0	0	0.0
Shoveler		750	8.0	691	6.0	115	2.3	0	0.0
Pintail		1 703	18.1	0	0.0	80	1.6	0	0.0
Lesser Scaup		1 191	12.6	1 364	11.8	690	13.7	0	0.0
Ring-necked Duck		0	0.0	132	1.1	21	0.4	0	0.0
Goldeneye		0	0.0	524	4.5	0	0.0	0	0.0
Bufflehead		102	1.1	397	3.4	0	0.0	0	0.0
Total sport ducks		9 195	97.6	10 321	89.4	4 703	93.7	3 145	100.0
Oldsquaw		0	0.0	0	0.0	125	2.5	0	0.0
Common Scoter		227	2.4	0	0.0	0	0.0	0	0.0
White-winged Scoter		0	0.0	0	0.0	131	2.6	0	0.0
Surf Scoter		0	0.0	1 228	10.6	61	1.2	0	0.0
Total sea ducks		227	2.4	1 228	10.6	317	6.3	0	0.0
Total ducks		9 422	89.3	11 549	92.1	5 020	100.0	3 145	100.0
Canada Goose		0	0.0	989	100.0	0	0.0	0	0.0
Snow Goose		1 125	100.0	0	0.0	0	0.0	0	0.0
Total geese		1 125	10.7	989	7.9	0	0.0	0	0.0
Waterfowl		10 547	100.0	12 538	100.0	5 020	100.0	3 145	100.0

(cont'd)

Table 18 (concl'd)
Estimated retrieved kill of waterfowl in Yukon

Species	Zone	1979		1980		1981		1982	
		Kill	%	Kill	%	Kill	%	Kill	%
Mallard		1 857	62.4	1 406	46.6	859	55.7	0	0.0
Gadwall		18	0.6	0	0.0	0	0.0	0	0.0
American Wigeon		317	10.6	106	3.5	0	0.0	0	0.0
Green-winged Teal		200	6.7	547	18.1	0	0.0	0	0.0
Pintail		188	6.3	139	4.6	351	22.8	0	0.0
Lesser Scaup		0	0.0	0	0.0	332	21.5	0	0.0
Ring-necked Duck		18	0.6	0	0.0	0	0.0	0	0.0
Goldeneye		280	9.4	819	27.1	0	0.0	561	50.0
Bufflehead		0	0.0	0	0.0	0	0.0	561	50.0
Total sport ducks		2 878	96.6	3 017	100.0	1 542	100.0	1 122	100.0
Common Scoter		100	3.4	0	0.0	0	0.0	0	0.0
Total sea ducks		100	3.4	0	0.0	0	0.0	0	0.0
Total ducks		2 978	85.2	3 017	85.0	1 542	85.5	1 122	100.0
Canada Goose		0	0.0	521	97.7	0	0.0	0	0.0
Small Canada Goose		146	28.2	0	0.0	141	53.8	0	0.0
Large Canada Goose		226	43.6	12	2.3	110	42.0	0	0.0
White-fronted Goose		146	28.2	0	0.0	11	4.2	0	0.0
Total geese		518	14.8	533	15.0	262	14.5	0	0.0
Waterfowl		3 496	100.0	3 550	100.0	1 804	100.0	1 122	100.0

