

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 1980 season**

by S. Wendt<sup>1</sup> and C. Hyslop<sup>1</sup>

The survey results are calculated by geographic zones, as shown in Figure 1.

**Acknowledgements**

We thank Laura Maldoon and Lucy Teevens, who helped with the tables.

**Reference**

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. Wild. Serv. Rep. Ser. No. 43.

**Introduction**

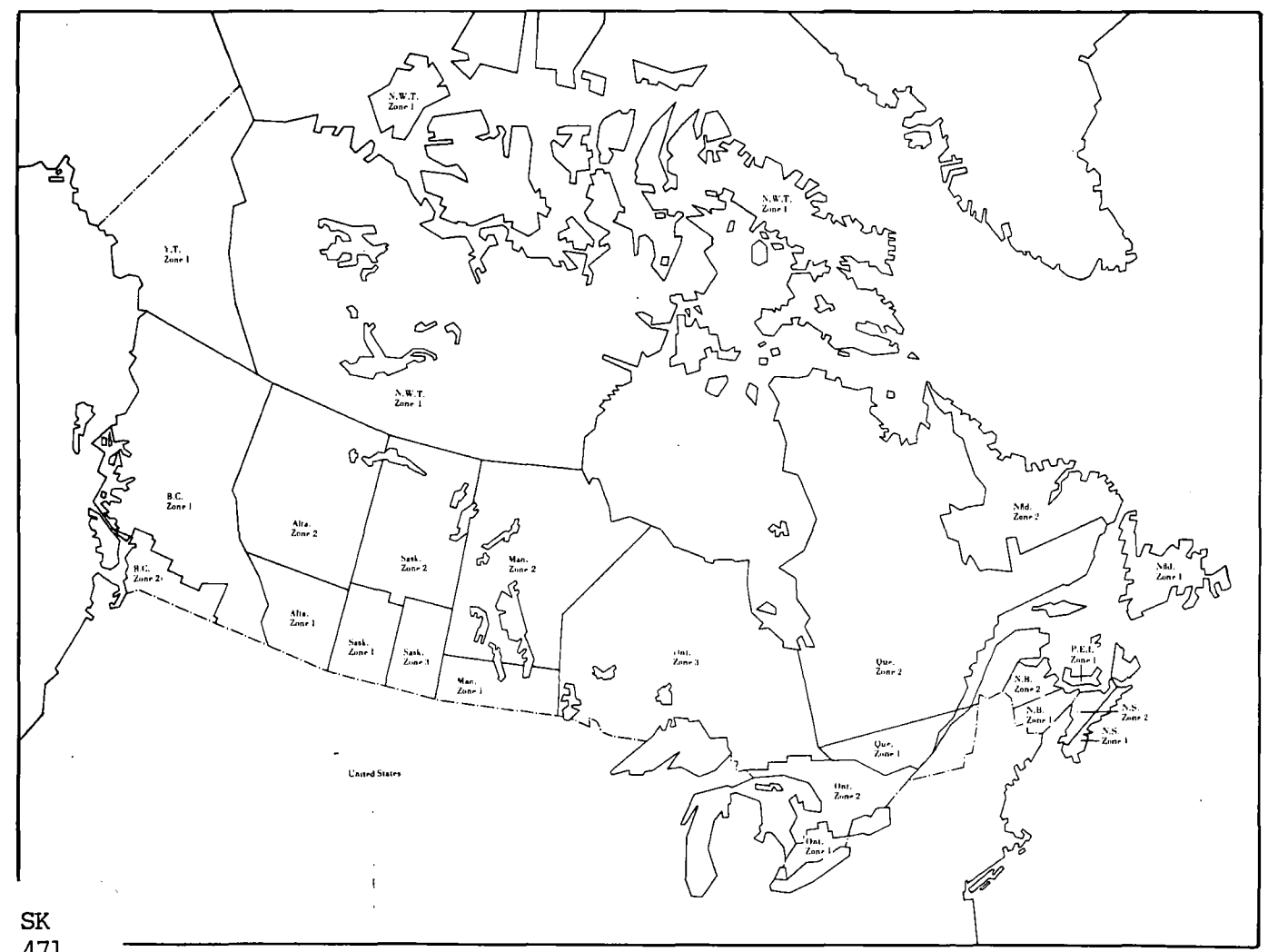
The National Harvest Survey (NHS) and Species Composition Survey (SCS) are used to estimate kill, by species, of migratory birds in Canada.

**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.

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**Figure 1**  
Geographic zones used in NHS and SCS



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**Table 3**  
Sample selection and response to the Harvest Survey questionnaire, 1980

Prov.	Zone	Characteristics of sample							
		Sample	Responses	% <sup>a</sup>	Permit purchasers	Active hunters	% <sup>b</sup>	Successful hunters	% <sup>c</sup>
Nfld.	01	2 500	1 227	49.1	886	563	64	400	45
	02	1 000	337	33.7	260	182	70	142	55
	Total	3 500	1 564	44.7	1 146	745	65	542	47
PEI	Total	1 100	431	39.2	365	301	83	265	73
NS	01	1 600	845	52.8	622	504	81	420	68
	02	1 400	874	62.4	609	484	80	406	67
	Total	3 000	1 719	57.3	1 231	988	80	826	67
NB	01	1 900	1 152	60.6	828	639	77	555	67
	02	1 700	862	50.7	596	399	67	311	52
	Total	3 600	2 014	55.9	1 424	1 038	73	866	61
Que.	01	3 500	2 291	65.5	1 804	1 439	80	1 300	72
	02	1 798	1 104	61.4	806	598	74	538	67
	Total	5 298	3 395	64.1	2 610	2 037	78	1 838	70
Ont.	01	3 200	1 947	60.8	1 580	1 227	78	1 002	63
	02	1 700	1 007	59.2	829	688	83	576	70
	03	2 800	1 613	57.6	1 229	960	78	799	65
	Total	7 700	4 567	59.3	3 638	2 875	79	2 377	65
Man.	01	2 510	1 561	62.2	1 246	1 072	86	934	75
	02	1 480	803	54.3	602	494	82	451	75
	Total	3 990	2 364	59.2	1 848	1 566	85	1 385	75
Sask.	01	1 460	755	51.7	571	478	84	435	76
	02	2 090	959	45.9	692	569	82	509	74
	03	2 210	1 150	52.0	871	738	85	649	75
	Total	5 760	2 864	49.7	2 134	1 785	84	1 593	75
Alta.	01	2 200	1 157	52.6	879	684	78	608	69
	02	4 030	1 854	46.0	1 371	1 080	79	990	72
	Total	6 230	3 011	48.3	2 250	1 764	78	1 598	71
BC	01	1 550	851	54.9	599	426	71	351	59
	02	2 000	1 033	51.7	771	575	75	498	65
	Total	3 550	1 884	53.1	1 370	1 001	73	849	62
NWT	Total	531	246	46.3	182	131	72	109	60
Yukon	Total	484	238	49.2	166	113	68	94	57
Total		44 743	24 297	54.3	18 364	14 344	78	12 342	67

<sup>a</sup> Percent of sample for which responses were received.  
<sup>b</sup> Percent of permit purchasers that actively hunted.  
<sup>c</sup> Percent of permit purchasers that hunted successfully.

**Table 4**  
Sample selection and response to the Harvest Survey questionnaire, 1975-80

Year	Permit sales	Sample <sup>a</sup>	% <sup>b</sup>	Responses <sup>c</sup>	% <sup>d</sup>	Permit purchasers <sup>e</sup>	% <sup>f</sup>	Active hunters	% <sup>g</sup>	Successful hunters	% <sup>h</sup>
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
Average	500 824	44 140	8.8	22 947	52.0	17 569	76.6	13 899	79.3	11 860	67.7

<sup>a</sup> Sample is the number of questionnaires sent out.  
<sup>b</sup> Sample as a percent of permit sales.  
<sup>c</sup> Responses are questionnaires that have been completed and returned.  
<sup>d</sup> Percent of sample for which responses were received.  
<sup>e</sup> Respondents who bought a permit in 1980 (usable responses).  
<sup>f</sup> Percent of respondents that bought a permit.  
<sup>g</sup> Percent of permit purchasers that actively hunted.  
<sup>h</sup> Percent of permit purchasers that hunted successfully.

**Table 5**  
Number of successful hunters and birds harvested,  
1978-80

Species group	Survey stratum	Successful hunters			Birds harvested			Birds harvested/ successful hunter		
		1978	1979	1980	1978	1979	1980	1978	1979	1980
<b>Newfoundland</b>										
Ducks	1	15 949	12 569	11 474	115 337	94 219	82 930	7.23	7.50	7.23
	2	1 816	1 830	2 075	27 322	27 981	23 108	15.04	15.29	11.14
	Total	17 765	14 400	13 549	142 660	122 200	106 039	8.03	8.49	7.83
Geese	1	2 764	2 625	2 644	8 441	8 717	7 102	2.87	3.32	2.69
	2	821	730	827	4 603	4 896	3 713	5.59	6.70	4.49
	Total	3 586	3 356	3 471	13 045	13 613	10 816	3.50	4.06	3.12
<b>Prince Edward Island</b>										
Ducks	Total	3 831	2 985	3 465	30 042	20 943	31 862	7.84	7.02	9.19
	Geese	Total	2 353	2 252	2 851	11 823	10 519	18 894	5.02	4.67
<b>Nova Scotia</b>										
Ducks	1	5 661	4 764	5 448	75 613	61 311	86 192	13.36	12.87	15.82
	2	3 570	2 856	3 053	33 928	27 073	38 544	9.50	9.48	12.62
	Total	9 231	7 620	8 502	109 542	88 385	124 737	11.87	11.60	14.67
Geese	1	1 485	1 121	1 305	4 280	4 383	6 033	2.88	3.91	4.62
	2	766	514	770	2 529	1 767	2 404	3.30	3.44	3.12
	Total	2 251	1 636	2 076	6 809	6 151	8 437	3.02	3.76	4.06
<b>New Brunswick</b>										
Ducks	1	5 753	4 766	5 099	51 331	36 613	44 769	8.92	7.68	8.78
	2	2 080	1 755	1 790	14 510	12 506	15 138	6.97	7.12	8.45
	Total	7 834	6 522	6 890	65 842	49 119	59 907	8.40	7.53	8.69
Geese	1	585	335	465	1 455	1 153	1 493	2.48	3.44	3.21
	2	597	424	491	1 806	1 475	1 579	3.03	3.48	3.22
	Total	1 182	759	956	3 261	2 629	3 072	2.76	3.46	3.21
<b>Quebec</b>										
Ducks	1	36 256	33 920	37 692	414 179	381 355	388 099	11.42	11.24	10.30
	2	10 881	9 416	10 727	114 904	87 650	112 146	10.56	9.31	10.45
	Total	47 137	43 337	48 420	529 083	469 006	500 245	11.22	10.82	10.33
Geese	1	15 079	13 103	14 928	86 055	61 979	86 291	5.71	4.73	5.78
	2	4 739	3 666	5 609	22 509	17 688	36 738	4.75	4.82	6.55
	Total	19 819	16 770	20 538	108 565	79 668	123 030	5.48	4.75	5.99
<b>Ontario</b>										
Ducks	1	22 154	20 784	20 489	271 255	247 943	250 629	12.24	11.93	12.23
	2	56 770	49 790	52 188	495 362	417 325	489 964	8.73	8.38	9.39
	3	15 707	16 051	15 823	176 545	180 156	171 542	11.24	11.22	10.84
	Total	94 632	86 626	88 500	943 164	845 425	912 136	9.97	9.76	10.31
Geese	1	5 313	6 318	6 275	19 483	22 074	22 863	3.67	3.49	3.64
	2	8 229	9 318	11 786	29 378	27 902	43 879	3.57	2.99	3.72
	3	2 803	4 821	4 152	15 720	26 065	19 273	5.61	5.41	4.64
	Total	16 346	20 458	22 214	64 582	76 042	86 015	3.95	3.72	3.87

(cont'd)

**Table 5 (concl'd)**  
Number of successful hunters and birds harvested,  
1978-80

Species group	Survey stratum	Successful hunters			Birds harvested			Birds harvested/ successful hunter		
		1978	1979	1980	1978	1979	1980	1978	1979	1980
<b>Manitoba</b>										
Ducks	1	24 489	23 558	21 453	244 434	261 798	223 102	9.98	11.11	10.40
	2	9 794	9 247	8 846	116 761	121 582	112 024	11.92	13.15	12.66
	Total	34 283	32 806	30 299	361 196	383 381	335 126	10.54	11.69	11.06
Geese	1	17 551	21 255	20 141	94 734	153 729	135 677	5.40	7.23	6.74
	2	5 530	6 271	6 050	29 476	41 967	34 470	5.33	6.69	5.70
	Total	23 081	27 526	26 192	124 210	195 696	170 148	5.38	7.11	6.50
<b>Saskatchewan</b>										
Ducks	1	14 235	12 793	12 814	148 894	173 335	144 447	10.46	13.55	11.27
	2	8 594	8 922	8 065	136 701	154 398	129 775	15.91	17.30	16.09
	3	19 246	18 017	14 965	241 708	254 962	169 331	12.56	14.15	11.31
	Total	42 076	39 732	35 845	527 305	582 696	443 553	12.53	14.67	12.37
Geese	1	10 877	10 897	12 318	72 519	80 784	102 439	6.67	7.41	8.32
	2	3 322	4 252	3 400	16 517	22 553	18 008	4.97	5.30	5.30
	3	8 624	8 872	9 616	49 481	49 097	50 942	5.74	5.53	5.30
	Total	22 825	24 022	25 334	138 517	152 435	171 391	6.07	6.35	6.77
<b>Alberta</b>										
Ducks	1	20 207	16 701	16 264	203 039	199 444	182 523	10.05	11.94	11.22
	2	30 667	32 408	34 625	378 614	479 896	506 278	12.35	14.81	14.62
	Total	50 875	49 109	50 890	581 653	679 340	688 801	11.43	13.83	13.54
Geese	1	10 796	9 136	10 472	61 953	53 008	69 771	5.74	5.80	6.66
	2	8 707	9 350	10 588	46 022	51 709	63 425	5.29	5.53	5.99
	Total	19 503	18 486	21 061	107 975	104 718	133 197	5.54	5.66	6.32
<b>British Columbia</b>										
Ducks	1	7 181	6 313	6 770	66 231	67 931	73 756	9.22	10.76	10.89
	2	7 225	7 502	7 203	144 308	136 462	112 518	19.97	18.19	15.62
	Total	14 406	13 815	13 974	210 539	204 394	186 275	14.61	14.79	13.33
Geese	1	2 344	2 324	2 677	6 958	9 204	9 798	2.97	3.96	3.66
	2	1 403	1 646	2 353	5 620	7 908	8 951	4.00	4.80	3.80
	Total	3 748	3 970	5 030	12 579	17 113	18 749	3.36	4.31	3.73
<b>Northwest Territories</b>										
Ducks	Total	1 317	924	966	18 133	9 420	11 548	13.77	10.19	11.95
	Geese	Total	226	267	180	2 236	1 125	989	9.86	4.21
<b>Yukon Territory</b>										
Ducks	Total	244	286	293	2 972	2 979	3 017	12.14	10.42	10.27
	Geese	Total	106	127	117	447	518	533	4.18	4.05
<b>Canada Total</b>										
Ducks	Total	323 637	298 167	301 599	3 522 135	3 457 293	3 403 251	10.88	11.60	11.28
	Geese	Total	115 032	119 634	130 027	594 056	660 232	745 276	5.16	5.52

**Table 6**  
Recreational activity provided by the hunting of ducks and geese, 1980

Area	Survey stratum	Total permit sales†	Active hunters	Successful hunters	Retrieved kill	Recreation days	S. bag* (av.)	D. bag* (av.)	R. days* (av.)
Nfld.	1	28 484	16 854	11 702	90 033	190 867	5.3	0.5	11.3
	2	2 878	2 754	2 125	26 822	30 422	9.7	0.9	11.0
	Total	31 362	19 608	13 827	116 855	221 289	6.0	0.5	11.3
PEI	Total	5 802	4 789	4 150	50 756	57 880	10.6	0.9	12.1
NS	1	9 489	6 727	5 547	92 225	68 953	13.7	1.3	10.3
	2	4 768	4 126	3 150	40 949	36 349	9.9	1.1	8.8
	Total	14 257	10 853	8 697	133 174	105 302	12.3	1.3	9.7
NB	1	8 649	6 018	5 160	46 262	38 286	7.7	1.2	6.4
	2	3 822	2 516	1 834	16 717	24 140	6.6	0.7	9.6
	Total	12 471	8 534	6 994	62 979	62 426	7.4	1.0	7.3
Que.	1	59 204	45 982	40 075	474 390	402 712	10.3	1.2	8.8
	2	16 929	13 177	11 570	148 885	124 430	11.3	1.2	9.4
	Total	76 133	59 159	51 645	623 275	527 142	10.5	1.2	8.9
Ont.	1	41 118	26 815	21 058	273 492	229 965	10.2	1.2	8.6
	2	80 638	65 933	53 044	533 843	467 414	8.1	1.1	7.1
	3	26 196	20 179	16 377	190 815	151 705	9.5	1.3	7.5
		147	112						
	Total	952	927	90 479	998 150	849 084	8.8	1.2	7.5
Man.	1	39 690	30 805	27 119	358 780	200 128	11.6	1.8	6.5
	2	8 650	11 010	9 867	146 495	74 749	13.3	2.0	6.8
	Total	48 340	41 815	36 986	505 275	274 877	12.1	1.8	6.6
Sask.	1	20 335	17 746	16 235	246 886	108 567	13.9	2.3	6.1
	2	10 741	9 584	8 551	147 783	66 472	15.4	2.2	6.9
	3	23 005	19 281	16 773	220 274	119 117	11.4	1.8	6.2
	Total	54 081	46 611	41 559	614 943	294 156	13.2	2.1	6.3
Alta.	1	30 358	22 895	19 623	252 294	138 017	11.0	1.8	6.0
	2	48 960	39 063	35 472	569 704	279 441	14.6	2.0	7.2
	Total	79 318	61 958	55 095	821 998	417 458	13.3	2.0	6.7
BC	1	12 387	9 204	7 195	83 555	64 419	9.1	1.3	7.0
	2	15 556	8 413	7 338	121 470	84 528	14.4	1.4	10.0
	Total	27 943	17 617	14 533	205 025	148 947	11.6	1.4	8.5
NWT	Total	732	1 157	970	12 538	7 286	10.8	1.7	6.3
Yukon	Total	525	368	306	3 550	1 756	9.6	2.0	4.8
		498	385	325					
Canada	Total	916	396	241	4 148 518	2 967 603	10.8	1.4	7.7

\* S. bag, seasonal bag per active hunter; D. bag, daily bag per active hunter; R. days, recreation days per active hunter.  
† Migratory game bird hunting permits.

**Table 7**  
Estimated retrieved kill of migratory game birds other than waterfowl in Canada, 1975-80

Species	1975	1976	1977	1978	1979	1980	1975-80 average
American Woodcock	130 898	159 094	125 530	139 396	106 771	127 521	131 535
Common Snipe	97 998	106 977	84 711	100 011	82 265	63 385	89 225
American Coot	53 407	47 981	26 941	35 011	30 073	23 937	36 225
Sandhill Crane	6 165	1 636	367	876	3 798	5 582	3 071
Mourning Dove	2 348	3 700	5 388	1 575	1 100	772	2 481
Band-tailed Pigeon	5 197	3 286	4 736	3 836	4 240	3 257	4 092
Total	296 013	322 668	247 673	280 705	228 247	224 454	266 627

**Table 8**  
Estimated number of successful hunters of woodcock and of their retrieved kill, 1978-80

Area	Survey stratum	Successful hunters			Birds killed			Average kill/ successful hunter		
		1978	1979	1980	1978	1979	1980	1978	1979	1980
PEI	1	116	106	115	394	327	316	3.4	3.1	2.7
NS	1	677	469	654	4 480	4 984	6 646	6.6	10.6	10.2
	2	495	211	361	1 848	1 361	2 133	3.7	6.5	5.9
	Total	1 173	680	1 015	6 328	6 345	8 780	5.4	9.3	8.6
NB	1	917	696	1 066	8 997	6 837	8 840	9.8	9.8	8.3
	2	384	370	265	2 693	4 217	4 323	7.0	11.4	16.3
	Total	1 302	1 066	1 332	11 691	11 055	13 163	9.0	10.4	9.9
Que.	1	6 019	5 069	5 799	42 530	28 856	40 161	7.1	5.7	6.9
	2	1 010	796	838	4 480	3 256	7 013	4.4	4.1	8.4
	Total	7 030	5 865	6 637	47 011	32 112	47 175	6.7	5.5	7.1
Ont.	1	4 234	3 422	3 381	27 646	20 390	22 450	6.5	6.0	6.6
	2	8 450	6 208	5 499	32 236	28 219	26 672	4.5	4.6	4.9
	3	1 139	1 269	1 115	8 089	8 322	8 963	7.1	6.6	8.0
	Total	13 825	10 901	9 996	73 972	56 932	58 087	5.4	5.2	5.8
Canada	Total	23 459	18 620	19 098	139 396	106 773	127 523	5.9	5.7	6.7
No. sampled		834	643	750						
% sampled		3.55	3.45	3.93						

**Table 9**  
Estimated number of successful hunters of Common Snipe and of their retrieved kill, 1978-80

Area	Survey stratum	Successful hunters			Birds killed			Average kill/ successful hunter		
		1978	1979	1980	1978	1979	1980	1978	1979	1980
Nfld.	1	3 429	3 234	2 310	18 578	16 875	13 014	5.4	5.2	5.6
	2	78	113	207	143	388	741	1.8	3.4	3.6
	Total	3 508	3 347	2 518	18 722	17 264	13 756	5.3	5.2	5.5
PEI	Total	154	179	199	1 491	432	824	9.6	2.4	4.1
NS	1	395	380	429	1 987	2 424	2 264	5.0	6.4	5.3
	2	434	297	372	1 507	2 692	2 106	3.5	9.1	5.7
	Total	829	677	802	3 495	5 117	4 370	4.2	7.6	5.5
NB	1	407	226	261	1 217	726	793	3.0	3.2	3.0
	2	201	119	138	1 679	578	639	8.4	4.8	4.6
	Total	608	345	399	2 896	1 305	1 433	4.8	3.8	3.6
Que.	1	6 057	4 903	4 247	30 093	26 631	22 022	5.0	5.4	5.2
	2	1 552	740	923	10 933	3 486	4 951	7.0	4.7	5.4
	Total	7 610	5 643	5 170	41 027	30 117	26 973	5.4	5.3	5.2
Ont.	1	1 007	702	386	4 989	2 972	1 373	5.0	4.2	3.6
	2	1 646	2 046	1 426	6 409	7 570	3 470	3.9	3.7	2.4
	3	501	563	430	1 763	2 186	1 220	3.5	3.9	2.8
Total	3 155	3 312	2 243	13 163	12 730	6 065	4.2	3.8	2.7	
Man.	1	371	230	70	1 626	1 255	562	4.4	5.5	8.0
	2	110	271	128	468	2 429	662	4.2	9.0	5.2
	Total	481	501	198	2 095	3 684	1 224	4.4	7.4	6.2
Sask.	1	80	114	146	201	620	261	2.5	5.4	1.8
	2	136	138	91	681	710	210	5.0	5.1	2.3
	3	269	136	229	901	481	486	3.4	3.5	2.1
Total	485	390	467	1 789	1 812	958	3.7	4.7	2.1	
Alta.	1	550	518	356	2 085	1 937	876	3.8	3.7	2.5
	2	790	747	828	8 505	6 008	5 119	10.8	8.0	6.2
	Total	1 341	1 266	1 185	10 590	7 945	5 995	7.9	6.3	5.1
BC	1	217	154	186	730	529	799	3.4	3.4	4.3
	2	689	359	345	3 957	1 318	845	5.7	3.7	2.5
	Total	906	514	532	4 688	1 847	1 644	5.2	3.6	3.1
NWT	Total	3	5	85	10	9	131	3.0	1.7	1.5
Yukon	Total	6	1	12	41	3	12	6.4	2.0	1.0
Canada	Total	19 093	16 186	13 815	100 011	82 271	63 390	5.2	5.1	4.6
No. sampled		745	545	539						
% sampled		3.90	3.37	3.90						

**Table 10**  
Estimated number of successful hunters of American Coot and of their retrieved kill, 1978-80

Area	Survey stratum	Successful hunters			Birds killed			Average kill/ successful hunter		
		1978	1979	1980	1978	1979	1980	1978	1979	1980
Que.	1	1 560	1 201	2 531	5 463	3 782	6 536	3.5	3.2	2.6
	2	242	313	256	947	1 201	932	3.9	3.8	3.6
	Total	1 802	1 515	2 787	6 411	4 983	7 469	3.6	3.3	2.7
Ont.	1	805	563	361	3 245	1 449	696	4.0	2.6	1.9
	2	1 124	1 634	1 433	2 808	5 971	3 890	2.5	3.7	2.7
	3	699	563	345	3 643	3 237	1 380	5.2	5.8	4.0
Total	2 630	2 761	2 140	9 697	10 657	5 967	3.7	3.9	2.8	
Man.	1	565	429	113	3 176	1 470	311	5.6	3.4	2.8
	2	161	172	234	1 369	2 149	1 353	8.5	12.4	5.8
	Total	726	602	347	4 545	3 619	1 665	6.3	6.0	4.8
Sask.	1	334	314	292	1 425	853	1 630	4.3	2.7	5.6
	2	268	303	159	1 347	3 170	1 052	5.0	10.4	6.6
	3	515	507	270	2 517	1 554	2 430	4.9	3.1	9.0
Total	1 119	1 125	722	5 290	5 578	5 113	4.7	5.0	7.1	
Alta.	1	738	254	128	2 891	780	128	3.9	3.1	1.0
	2	1 183	998	675	4 538	3 440	2 871	3.8	3.5	4.3
	Total	1 921	1 252	803	7 430	4 220	3 000	3.9	3.4	3.7
BC	1	148	208	114	689	713	228	4.6	3.4	2.0
2	104	78	87	584	233	174	5.6	3.0	2.0	
Total	253	287	201	1 274	946	402	5.0	3.3	2.0	
NWT		76	24	81	330	70	318	4.3	2.9	3.9
Yukon		6	—	1	30	—	3	4.8	—	2.0
Canada	Total	8 536	7 569	7 086	35 011	30 077	23 940	4.1	4.0	3.4
No. sampled		303	231	225						
% sampled		3.55	3.05	3.18						

**Table 11**  
Estimated number of successful hunters of Sandhill Crane and of their retrieved kill, 1978-80

Area	Survey stratum	Successful hunters			Birds killed			Average kill/successful hunter		
		1978	1979	1980	1978	1979	1980	1978	1979	1980
Man.	Total	231	372	344	876	977	892	3.8	2.6	2.6
Sask.	Total	*	862	1 446	*	2 821	4 690	—	3.3	3.2
	Total	231	1 234	1 790	876	3 798	5 583	3.8	3.1	3.1
No. sampled		9	49	73						
% sampled		3.18	3.97	4.08						

\* Closed season.

**Table 12**  
Estimated number of successful hunters of Mourning Dove and of their retrieved kill, 1978-80

Area	Survey stratum	Successful hunters			Birds killed			Average kill/successful hunter		
		1978	1979	1980	1978	1979	1980	1978	1979	1980
BC	1	81	66	85	855	380	494	10.4	5.7	5.8
	2	59	61	87	719	719	277	12.0	11.8	3.2
	Total	141	128	172	1 575	1 100	772	11.1	8.6	4.5
No. sampled		7	9	9						
% sampled		4.96	7.03	5.23						

**Table 13**  
Estimated number of successful hunters of Band-tailed Pigeon and of their retrieved kill, 1978-80

Area	Survey stratum	Successful hunters			Birds killed			Average kill/successful hunter		
		1978	1979	1980	1978	1979	1980	1978	1979	1980
BC	1	18	15	64	108	15	672	6.0	1.0	10.4
	2	622	604	333	3 727	4 225	2 585	6.0	7.0	7.8
	Total	640	619	397	3 836	4 240	3 257	6.0	6.8	8.2
No. sampled		28	34	25						
% sampled		4.38	5.49	6.30						

**Table 14**  
Estimated recreation activity provided by the hunting of migratory game birds other than waterfowl in 1980

Area	Survey stratum	Total permit sales†	Active hunters	Successful hunters	Retrieved kill	Recreation days	S. bag* (av.)	D. bag* (av.)	R. days* (av.)
Nfld.	1	28 484	4 589	2 310	13 014	39 846	2.8	0.3	8.7
	2	2 878	499	207	741	5 151	1.5	0.1	10.3
	Total	31 362	5 088	2 517	13 755	44 997	2.7	0.3	8.8
PEI	Total	5 802	665	256	1 141	2 443	1.7	0.5	3.7
NS	1	9 489	2 391	825	8 910	18 855	3.7	0.5	7.9
	2	4 768	1 407	621	4 240	8 494	3.0	0.5	6.0
	Total	14 257	3 798	1 446	13 150	27 349	3.5	0.5	7.2
NB	1	8 649	1 687	1 205	9 633	10 358	5.7	0.9	6.1
	2	3 822	740	342	4 962	6 596	6.7	0.8	8.9
	Total	12 471	2 427	1 547	14 595	16 954	6.0	0.9	7.0
Que.	1	59 204	12 898	9 429	68 721	72 481	5.3	0.9	5.6
	2	16 929	2 964	1 669	12 897	21 099	4.4	0.6	7.1
	Total	76 133	15 862	11 098	81 618	93 580	5.1	0.9	5.9
Ont.	1	41 118	6 552	3 786	24 521	33 692	3.7	0.7	5.1
	2	80 638	14 207	7 227	34 033	71 147	2.4	0.5	5.0
	3	26 196	3 426	1 649	11 564	21 401	3.4	0.5	6.2
	Total	147 952	24 185	12 662	70 118	126 240	2.9	0.6	5.2
Man.	1	39 690	3 622	340	1 313	15 314	0.4	0.1	4.2
	2	8 650	1 941	522	2 468	9 991	1.3	0.2	5.1
	Total	48 340	5 563	862	3 781	25 305	0.7	0.1	4.5
Sask.	1	20 335	2 163	945	3 214	7 261	1.5	0.4	3.4
	2	10 741	1 020	266	1 318	4 806	1.3	0.3	4.7
	3	23 005	3 305	1 284	6 229	12 352	1.9	0.5	3.7
	Total	54 081	6 488	2 495	10 761	24 419	1.7	0.4	3.8
Alta.	1	30 358	2 558	432	1 004	12 366	0.4	0.1	4.8
	2	48 960	4 304	1 372	7 991	24 716	1.9	0.3	5.7
	Total	79 318	6 862	1 804	8 995	37 082	1.3	0.2	5.4
BC	1	12 387	1 212	383	2 195	6 493	1.8	0.3	5.4
	2	15 556	1 528	749	3 882	8 868	2.5	0.4	5.8
	Total	27 943	2 740	1 132	6 077	15 361	2.2	0.4	5.6
NWT <sup>1</sup>		732	221	129	450	1 151	2.0	0.4	5.2
Yukon		525	27	14	16	117	0.6	0.1	4.3
Canada		498 916	73 926	35 962	224 457	414 998	3.0	0.5	5.6

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

† Migratory game bird hunting permits.

**Table 15**  
Precision of estimates at 95% confidence of duck and  
goose kill from the NHS, 1979-80

Area	Zone	Year	Active hunters ( $\pm\%$ )	Duck harvest ( $\pm\%$ )	Goose harvest ( $\pm\%$ )
Nfld.	01	1979	19 004 $\pm$ 5.44	94 219 $\pm$ 17.88	8 717 $\pm$ 33.86
		1980	16 645 $\pm$ 5.55	82 930 $\pm$ 11.76	7 102 $\pm$ 25.85
	02	1979	2 329 $\pm$ 11.81	27 981 $\pm$ 30.81	4 896 $\pm$ 37.76
		1980	2 689 $\pm$ 12.29	23 108 $\pm$ 18.19	3 713 $\pm$ 28.18
PEI	01	1979	4 932 $\pm$ 6.22	20 943 $\pm$ 16.19	10 519 $\pm$ 23.40
		1980	4 647 $\pm$ 5.75	31 862 $\pm$ 14.08	18 894 $\pm$ 19.48
NS	01	1979	5 925 $\pm$ 6.80	61 311 $\pm$ 18.25	4 383 $\pm$ 28.10
		1980	6 624 $\pm$ 5.96	86 192 $\pm$ 14.62	6 033 $\pm$ 28.23
	02	1979	4 057 $\pm$ 7.63	27 073 $\pm$ 13.96	1 767 $\pm$ 31.20
		1980	4 131 $\pm$ 7.35	38 544 $\pm$ 19.17	2 404 $\pm$ 29.24
NB	01	1979	6 003 $\pm$ 5.56	36 613 $\pm$ 10.68	1 153 $\pm$ 63.38
		1980	6 175 $\pm$ 5.16	44 769 $\pm$ 10.69	1 493 $\pm$ 33.79
	02	1979	2 637 $\pm$ 7.86	12 506 $\pm$ 15.31	1 475 $\pm$ 33.65
		1980	2 632 $\pm$ 7.40	15 138 $\pm$ 13.95	1 579 $\pm$ 28.37
Que.	01	1979	40 953 $\pm$ 4.19	381 355 $\pm$ 9.89	61 979 $\pm$ 12.71
		1980	43 840 $\pm$ 3.91	388 099 $\pm$ 7.83	86 291 $\pm$ 11.64
	02	1979	12 164 $\pm$ 7.22	87 650 $\pm$ 15.09	17 688 $\pm$ 20.98
		1980	12 451 $\pm$ 7.03	112 046 $\pm$ 13.28	36 738 $\pm$ 20.22
Ont.	01	1979	26 757 $\pm$ 5.35	247 943 $\pm$ 9.88	22 074 $\pm$ 17.81
		1980	26 105 $\pm$ 5.20	250 629 $\pm$ 9.53	22 863 $\pm$ 19.76
	02	1979	63 652 $\pm$ 4.63	417 325 $\pm$ 9.83	27 902 $\pm$ 21.14
		1980	64 537 $\pm$ 4.23	489 964 $\pm$ 9.59	43 879 $\pm$ 24.69
	03	1979	19 722 $\pm$ 6.13	180 156 $\pm$ 9.34	26 065 $\pm$ 20.21
		1980	20 081 $\pm$ 5.79	171 542 $\pm$ 11.58	19 273 $\pm$ 22.25
Man.	01	1979	31 517 $\pm$ 3.44	261 798 $\pm$ 7.60	153 729 $\pm$ 7.87
		1980	29 627 $\pm$ 3.72	223 102 $\pm$ 9.75	135 677 $\pm$ 8.85
	02	1979	10 772 $\pm$ 6.31	121 582 $\pm$ 10.23	41 967 $\pm$ 14.00
		1980	10 889 $\pm$ 6.76	112 024 $\pm$ 11.50	34 470 $\pm$ 15.64
Sask.	01	1979	17 430 $\pm$ 5.68	173 335 $\pm$ 13.65	80 784 $\pm$ 12.01
		1980	17 367 $\pm$ 5.76	144 447 $\pm$ 11.44	102 439 $\pm$ 10.19
	02	1979	10 413 $\pm$ 6.96	154 398 $\pm$ 11.49	22 553 $\pm$ 17.34
		1980	9 325 $\pm$ 6.92	129 775 $\pm$ 12.54	18 008 $\pm$ 16.57
	03	1979	20 112 $\pm$ 4.92	254 962 $\pm$ 8.14	49 097 $\pm$ 12.42
		1980	18 853 $\pm$ 4.60	169 331 $\pm$ 9.01	50 942 $\pm$ 10.46
Alta.	01	1979	22 395 $\pm$ 5.19	199 444 $\pm$ 11.66	53 008 $\pm$ 15.75
		1980	22 646 $\pm$ 5.23	182 523 $\pm$ 10.16	69 771 $\pm$ 14.42
	02	1979	37 072 $\pm$ 4.02	479 896 $\pm$ 6.87	51 709 $\pm$ 14.40
		1980	38 290 $\pm$ 3.90	506 278 $\pm$ 7.04	63 425 $\pm$ 14.80
BC	01	1979	8 363 $\pm$ 7.51	67 931 $\pm$ 13.54	9 204 $\pm$ 22.35
		1980	9 146 $\pm$ 7.05	73 756 $\pm$ 14.61	9 798 $\pm$ 22.22
	02	1979	8 580 $\pm$ 7.02	136 462 $\pm$ 12.18	7 908 $\pm$ 29.15
		1980	8 231 $\pm$ 7.21	112 518 $\pm$ 13.14	8 951 $\pm$ 23.32

(cont'd)

**Table 15 (cont'd)**  
Precision of estimates at 95% confidence of duck and  
goose kill from the NHS, 1979-80

Area	Zone	Year	Active hunters ( $\pm\%$ )	Duck harvest ( $\pm\%$ )	Goose harvest ( $\pm\%$ )
NWT	01	1979	1 289 $\pm$ 27.62	9 420 $\pm$ 41.96	1 125 $\pm$ 78.11
		1980	1 098 $\pm$ 23.18	11 548 $\pm$ 38.36	989 $\pm$ 77.52
Yukon	01	1979	381 $\pm$ 20.85	2 979 $\pm$ 41.13	518 $\pm$ 71.33
		1980	356 $\pm$ 20.48	3 017 $\pm$ 45.69	533 $\pm$ 57.29

**Table 16**  
Net intensity of the Species Composition Survey, 1980

Area	Zone	Permit sales	Mailing size	Return rate	Est. resp. rate from suc. hunt.	Net cov. of hunt. pop.	Parts recd.
Nfld.	01	28 484	1 091	0.115	0.26	0.0044	332
	02	2 878	512	0.027	0.05	0.0049	66
PEI		5 802	942	0.099	0.14	0.0160	511
NS	01	9 489	2 025	0.123	0.18	0.0262	1 169
	02	4 768	1 167	0.162	0.24	0.0396	977
NB	01	8 649	958	0.221	0.33	0.0245	1 318
	02	3 822	985	0.076	0.15	0.0196	341
Que.	01	59 204	2 591	0.288	0.40	0.0126	4 219
	02	16 929	1 397	0.216	0.32	0.0178	1 398
Ont.	01	41 118	2 771	0.198	0.31	0.0134	2 385
	02	80 638	2 341	0.245	0.35	0.0071	3 590
	03	26 196	2 648	0.165	0.25	0.0166	2 024
Man.	01	39 690	1 671	0.221	0.29	0.0093	2 003
	02	8 650	475	0.200	0.27	0.0110	604
Sask.	01	20 335	712	0.202	0.27	0.0071	1 095
	02	10 741	524	0.242	0.33	0.0118	796
	03	23 005	942	0.211	0.28	0.0087	1 069
Alta.	01	30 358	890	0.203	0.29	0.0060	1 115
	02	48 960	958	0.235	0.33	0.0046	1 809
BC	01	12 387	1 753	0.084	0.14	0.0119	874
	02	15 556	1 952	0.121	0.19	0.0152	1 417
NWT		732	191	0.073	0.12	0.0191	61
Yukon		525	110	0.091	0.16	0.0190	41
Canada		498 916	29 606	0.179	0.27	0.0106	29 214

**Table 17**  
Total waterfowl harvest in Canada

	Retrieved kill							
	1977		1978		1979		1980	
	Harvest	%	Harvest	%	Harvest	%	Harvest	%
Common Merganser	22 566	0.6	34 113	1.0	26 151	0.8	30 276	0.9
Red-breasted Merganser	19 471	0.5	7 347	0.2	11 783	0.3	14 417	0.4
Hooded Merganser	41 917	1.1	35 493	1.0	30 451	0.9	31 893	0.9
Mallard	1 564 774	42.0	1 529 404	43.4	1 612 464	46.8	1 534 150	45.1
Black Duck	360 536	9.7	378 785	10.8	316 627	9.2	365 229	10.7
Gadwall	95 125	2.6	108 081	3.1	103 568	3.0	93 719	2.8
American Wigeon	154 194	4.1	137 363	3.9	122 143	3.5	95 496	2.8
Green-winged Teal	271 165	7.3	228 260	6.5	162 731	4.7	175 798	5.2
Blue-winged Teal	145 986	3.9	136 477	3.9	109 007	3.3	89 397	2.6
Shoveler	44 019	1.2	45 467	1.3	48 291	1.4	49 893	1.5
Pintail	195 676	5.2	135 366	3.8	146 300	4.2	129 348	3.8
Wood Duck	127 527	3.4	143 271	4.1	113 528	3.3	118 054	3.5
Redhead	40 309	1.1	41 659	1.2	66 384	1.9	52 018	1.5
Canvasback	16 959	0.5	28 465	0.8	35 522	1.0	27 443	0.8
Greater Scaup	71 813	1.9	43 825	1.2	50 459	1.5	56 287	1.7
Lesser Scaup	117 795	3.2	96 403	2.7	99 103	2.9	138 098	4.1
Ring-necked Duck	119 112	3.2	120 392	3.4	126 370	3.7	128 889	3.8
Goldeneye	105 911	2.8	122 518	3.5	100 380	2.9	113 789	3.3
Bufflehead	71 426	1.9	69 492	2.0	61 762	1.8	55 386	1.6
Ruddy Duck	3 730	0.1	1 201	0.0	8 300	0.2	2 714	0.1
Total sport ducks	3 590 011	96.3	3 443 382	97.8	3 351 324	97.2	3 302 294	97.0
Oldsquaw	9 907	0.3	11 288	0.3	21 048	0.6	17 228	0.5
Common Eider	33 929	0.9	30 882	0.9	25 053	0.7	24 339	0.7
Common Scoter	41 150	1.1	11 296	0.3	17 295	0.5	16 119	0.5
White-winged Scoter	17 349	0.5	10 634	0.3	17 291	0.5	20 477	0.6
Surf Scoter	36 286	1.0	14 558	0.4	15 403	0.4	22 345	0.7
Total sea ducks	138 621	3.7	78 658	2.2	96 090	2.8	100 508	3.0
Total ducks	3 728 632	88.1	3 522 040	85.6	3 447 414	83.9	3 402 802	82.0
Canada Goose	343 124	68.0	406 469	68.4	431 462	65.4	462 146	62.0
Snow Goose	99 090	19.7	120 638	20.3	159 012	24.1	195 270	26.2
White-fronted Goose	57 782	11.5	62 128	10.5	60 938	9.2	79 011	10.6
Ross' Goose	4 143	0.8	4 809	0.8	8 283	1.3	4 816	0.6
Brant	100	0.0	0	0.0	524	0.1	4 018	0.5
Total geese	504 239	11.9	594 044	14.4	660 219	16.1	745 261	18.0
Total waterfowl	4 232 871	100.0	4 116 084	100.0	4 107 633	100.0	4 148 063	100.00

**Table 18**  
Estimated retrieved kill of waterfowl in Newfoundland

Species	Zone	1977		1978		1979		1980	
		Kill	%	Kill	%	Kill	%	Kill	%
Common Merganser	01	2 631	2.6	8 584	7.4	5 666	6.0	3 342	4.0
	02	1 348	4.3	2 441	8.9	805	2.9	634	2.7
	Total	3 979	3.0	11 025	7.7	6 471	5.3	3 976	3.7
Red-breasted Merganser	01	3 963	3.9	4 441	3.9	1 344	1.4	6 713	8.1
	02	1 544	4.9	0	0.0	2 851	10.2	616	2.7
	Total	5 507	4.1	4 441	3.1	4 195	3.4	7 329	6.9
Hooded Merganser	01	0	0.0	0	0.0	45	0.0	519	0.6
	02	0	0.0	0	0.0	0	0.0	634	2.7
	Total	0	0.0	0	0.0	45	0.0	1 153	1.1
Mallard	01	837	0.8	200	0.2	0	0.0	0	0.0
	02	312	1.0	582	2.1	456	1.6	0	0.0
	Total	1 149	0.9	782	0.5	456	0.4	0	0.0
Black Duck	01	30 250	29.9	41 464	36.0	33 398	35.4	28 813	34.7
	02	10 804	34.1	4 780	17.5	8 274	29.6	2 483	10.7
	Total	41 054	30.9	46 244	32.4	41 672	34.1	31 296	29.5
Gadwall	02	0	0.0	138	0.5	0	0.0	0	0.0
	Total	0	0.0	138	0.1	0	0.0	0	0.0
American Wigeon	01	745	0.7	552	0.5	140	0.1	0	0.0
	Total	745	0.6	552	0.4	140	0.1	0	0.0
Green-winged Teal	01	15 780	15.6	27 549	23.9	13 362	14.2	11 717	14.1
	02	4 176	13.2	3 283	12.0	4 283	15.3	771	3.3
	Total	19 956	15.0	30 832	21.6	17 645	14.4	12 488	11.8
Blue-winged Teal	01	1 755	1.7	895	0.8	230	0.2	0	0.0
	02	0	0.0	582	2.1	95	0.3	0	0.0
	Total	1 755	1.3	1 477	1.0	325	0.3	0	0.0
Pintail	01	1 978	2.0	619	0.5	370	0.4	688	0.8
	02	435	1.4	275	1.0	1 428	5.1	248	1.1
	Total	2 413	1.8	894	0.6	1 798	1.5	936	0.9
Wood Duck	01	0	0.0	0	0.0	2 169	2.3	0	0.0
	02	0	0.0	0	0.0	0	0.0	385	1.7
	Total	0	0.0	0	0.0	2 169	1.8	385	0.4
Greater Scaup	01	2 319	2.3	276	0.2	642	0.7	2 880	3.5
	02	87	0.3	1 479	5.4	0	0.0	368	1.6
	Total	2 406	1.8	1 755	1.2	642	0.5	3 248	3.1
Lesser Scaup	01	0	0.0	0	0.0	0	0.0	1 862	2.2
	02	624	2.0	1 314	4.8	267	1.0	1 541	6.7
	Total	624	0.5	1 314	0.9	267	0.2	3 403	3.2
Ring-necked Duck	01	12 635	12.5	7 664	6.6	12 555	13.3	3 726	4.5
	02	0	0.0	1 287	4.7	0	0.0	3 058	13.2
	Total	12 635	9.5	8 951	6.3	12 555	10.3	6 784	6.4
Goldeneye	01	13 985	13.8	12 338	10.7	11 227	11.9	10 502	12.7
	02	1 233	3.9	5 704	20.9	6 054	21.6	6 750	29.2
	Total	15 218	11.5	18 042	12.6	17 281	14.1	17 252	16.3
Bufflehead	02	1 232	3.9	0	0.0	0	0.0	0	0.0
	Total	1 232	0.9	0	0.0	0	0.0	0	0.0
Total sport ducks		108 673	81.8	126 447	88.6	105 661	86.5	88 250	83.2

(cont'd)



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

Species	Zone	1977		1978		1979		1980	
		Kill	%	Kill	%	Kill	%	Kill	%
Oldsquaw	01	666	0.7	0	0.0	0	0.0	2 010	2.4
	Total	666	0.5	0	0.0	0	0.0	2 010	1.9
Common Eider	01	10 082	10.0	9 846	8.5	11 205	11.9	6 545	7.9
	02	5 628	17.8	4 719	17.3	1 463	5.2	2 562	11.1
	Total	15 710	11.8	14 565	10.2	12 668	10.4	9 107	8.6
Common Scoter	01	3 226	3.2	395	0.3	1 504	1.6	111	0.1
	02	3 239	10.2	0	0.0	358	1.3	1 793	7.8
	Total	6 465	4.9	395	0.3	1 862	1.5	1 904	1.8
White-winged Scoter	01	0	0.0	514	0.4	0	0.0	2 725	3.3
	02	0	0.0	0	0.0	1 202	4.3	368	1.6
	Total	0	0.0	514	0.4	1 202	1.0	3 093	2.9
Surf Scoter	01	358	0.4	0	0.0	362	0.4	778	0.9
	02	1 015	3.2	739	2.7	446	1.6	896	3.9
	Total	1 373	1.0	739	0.5	808	0.7	1 674	1.6
Total sea ducks		24 214	18.2	16 213	11.4	16 540	13.5	17 788	16.8
Total ducks		132 887	91.4	142 660	91.6	122 201	90.0	106 038	90.7
Canada Goose	01	7 784	100.0	8 441	100.0	8 717	100.0	7 102	100.0
	02	4 776	100.0	4 603	100.0	4 896	100.0	3 713	100.0
	Total	12 560	100.0	13 044	100.0	13 613	100.0	10 815	100.0
Total geese		12 560	8.6	13 044	8.4	13 613	10.0	10 815	9.3
Waterfowl		145 447	100.0	155 704	100.0	135 814	100.0	116 853	100.0

(cont'd)

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

Species	1977		1978		1979		1980	
	Kill	%	Kill	%	Kill	%	Kill	%
Common Merganser	200	0.7	150	0.5	327	1.6	0	0.0
Red-breasted Merganser	313	1.0	45	0.1	269	1.3	0	0.0
Hooded Merganser	67	0.2	0	0.0	0	0.0	0	0.0
Mallard	212	0.7	297	1.0	450	2.1	1 001	3.1
Black Duck	17 717	58.7	20 008	66.6	12 667	60.5	21 532	67.6
American Wigeon	147	0.5	268	0.9	202	1.0	319	1.0
Green-winged Teal	6 699	22.2	6 093	20.3	5 302	25.3	7 049	22.1
Blue-winged Teal	799	2.6	1 071	3.6	817	3.9	394	1.2
Pintail	1 778	5.9	771	2.6	576	2.8	508	1.6
Wood Duck	49	0.2	45	0.1	0	0.0	0	0.0
Greater Scaup	229	0.8	0	0.0	0	0.0	150	0.5
Lesser Scaup	66	0.2	45	0.1	0	0.0	75	0.2
Ring-necked Duck	524	1.7	357	1.2	180	0.9	305	1.0
Goldeneye	49	0.2	348	1.2	90	0.4	399	1.3
Ruddy Duck	0	0.0	0	0.0	64	0.3	0	0.0
Total sport ducks	28 849	95.5	29 498	98.2	20 944	100.0	31 732	99.6
Oldsquaw	488	1.6	309	1.0	0	0.0	68	0.2
Common Eider	67	0.2	45	0.1	0	0.0	61	0.2
Common Scoter	98	0.3	0	0.0	0	0.0	0	0.0
White-winged Scoter	0	0.0	117	0.4	0	0.0	0	0.0
Surf Scoter	691	2.3	75	0.2	0	0.0	0	0.0
Total sea ducks	1 344	4.5	546	1.8	0	0.0	129	0.4
Total ducks	30 193	61.8	30 044	71.8	20 944	66.6	31 861	62.8
Canada Goose	18 653	100.0	11 823	100.0	10 157	96.6	18 894	100.0
Large Canada Goose	0	0.0	0	0.0	362	3.4	0	0.0
Total geese	18 653	38.2	11 823	28.2	10 519	33.4	18 894	37.2
Waterfowl	48 846	100.0	41 867	100.0	31 463	100.0	50 755	100.0

(cont'd)

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

Species	Zone	1977		1978		1979		1980	
		Kill	%	Kill	%	Kill	%	Kill	%
Common Merganser	01	1 320	1.4	1 291	1.7	1 116	1.8	702	0.8
	02	945	2.5	1 095	3.2	427	1.6	1 298	3.4
	Total	2 265	1.7	2 386	2.2	1 543	1.7	2 000	1.6
Red-breasted Merganser	01	2 757	2.8	432	0.6	1 828	3.0	1 436	1.7
	02	605	1.6	361	1.1	177	0.7	726	1.9
	Total	3 362	2.5	793	0.7	2 005	2.3	2 162	1.7
Hooded Merganser	01	491	0.5	256	0.3	402	0.7	0	0.0
	02	292	0.8	64	0.2	276	1.0	22	0.1
	Total	783	0.6	320	0.3	678	0.8	22	0.0
Mallard	01	968	1.0	850	1.1	512	0.8	2 066	2.4
	02	1 293	3.4	326	1.0	259	1.0	1 150	3.0
	Total	2 261	1.7	1 176	1.1	771	0.9	3 216	2.6
Black Duck	01	46 392	47.9	42 016	55.6	28 456	46.4	44 425	51.5
	02	21 487	57.0	22 723	67.0	15 462	57.1	24 244	62.9
	Total	67 879	50.5	64 739	59.1	43 918	49.7	68 669	55.1
Gadwall	01	93	0.1	58	0.1	0	0.0	0	0.0
	Total	93	0.1	58	0.1	0	0.0	0	0.0
American Wigeon	01	49	0.1	88	0.1	147	0.2	38	0.0
	02	350	0.9	132	0.4	168	0.6	224	0.6
	Total	399	0.3	220	0.2	315	0.4	262	0.2
Green-winged Teal	01	8 334	8.6	6 855	9.1	5 480	8.9	8 545	9.9
	02	5 713	15.2	5 326	15.7	3 525	13.0	4 911	12.7
	Total	14 047	10.4	12 181	11.1	9 005	10.2	13 456	10.8
Blue-winged Teal	01	291	0.3	634	0.8	520	0.8	579	0.7
	02	1 849	4.9	599	1.8	1 084	4.0	830	2.2
	Total	2 140	1.6	1 233	1.1	1 604	1.8	1 409	1.1
Shoveler	01	0	0.0	29	0.0	0	0.0	0	0.0
	Total	0	0.0	29	0.0	0	0.0	0	0.0
Pintail	01	640	0.7	476	0.6	392	0.6	546	0.6
	02	512	1.4	197	0.6	111	0.4	184	0.5
	Total	1 152	0.9	673	0.6	503	0.6	730	0.6
Wood Duck	01	312	0.3	478	0.6	703	1.1	229	0.3
	02	283	0.8	296	0.9	240	0.9	348	0.9
	Total	595	0.4	774	0.7	943	1.1	577	0.5
Redhead	02	0	0.0	0	0.0	16	0.1	0	0.0
	Total	0	0.0	0	0.0	16	0.0	0	0.0
Greater Scaup	01	771	0.8	760	1.0	88	0.1	611	0.7
	02	235	0.6	0	0.0	211	0.8	196	0.5
	Total	1 006	0.7	760	0.7	299	0.3	807	0.6
Lesser Scaup	01	409	0.4	0	0.0	46	0.1	295	0.3
	02	403	1.1	0	0.0	161	0.6	261	0.7
	Total	812	0.6	0	0.0	207	0.2	556	0.4

(cont'd)

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

Species	Zone	1977		1978		1979		1980	
		Kill	%	Kill	%	Kill	%	Kill	%
Ring-necked Duck	01	2 197	2.3	2 060	2.7	2 068	3.4	2 325	2.7
	02	1 369	3.6	683	2.0	1 897	7.0	784	2.0
	Total	3 566	2.7	2 743	2.5	3 965	4.5	3 109	2.5
Goldeneye	01	4 330	4.5	6 111	8.1	2 103	3.4	3 557	4.1
	02	1 141	3.0	1 621	4.8	1 039	3.8	2 676	6.9
	Total	5 471	4.1	7 732	7.1	3 142	3.6	6 233	5.0
Bufflehead	01	3 203	3.3	599	0.8	1 377	2.2	1 213	1.4
	02	56	0.1	0	0.0	447	1.7	109	0.3
	Total	3 259	2.4	599	0.5	1 824	2.1	1 322	1.1
Total sport ducks		109 090	81.1	96 416	88.0	70 738	80.0	104 530	83.8
Oldsquaw	01	2 172	2.2	1 183	1.6	4 597	7.5	4 188	4.9
	02	112	0.3	289	0.9	865	3.2	321	0.8
	Total	2 284	1.7	1 472	1.3	5 462	6.2	4 509	3.6
Common Eider	01	10 455	10.8	7 657	10.1	6 235	10.2	7 886	9.1
	02	141	0.4	145	0.4	80	0.3	44	0.1
	Total	10 596	7.9	7 802	7.1	6 315	7.1	7 930	6.4
King Eider	01	49	0.1	0	0.0	93	0.2	0	0.0
	Total	49	0.0	0	0.0	93	0.1	0	0.0
Harlequin Duck	01	0	0.0	0	0.0	108	0.2	0	0.0
	Total	0	0.0	0	0.0	108	0.1	0	0.0
Common Scoter	01	3 150	3.3	2 233	3.0	2 144	3.5	1 130	1.3
	02	158	0.4	0	0.0	62	0.2	0	0.0
	Total	3 308	2.5	2 233	2.0	2 206	2.5	1 130	0.9
White-winged Scoter	01	1 830	1.9	292	0.4	665	1.1	3 072	3.6
	02	255	0.7	72	0.2	406	1.5	192	0.5
	Total	2 085	1.6	364	0.3	1 071	1.2	3 264	2.6
Surf Scoter	01	6 617	6.8	1 255	1.7	2 230	3.6	3 347	3.9
	02	481	1.3	0	0.0	161	0.6	26	0.1
	Total	7 098	5.3	1 255	1.1	2 391	2.7	3 373	2.7
Total sea ducks		25 420	18.9	13 126	12.0	17 646	20.0	20 206	16.2
Total ducks		134 510	93.8	109 542	94.1	88 384	93.5	124 736	93.7
Canada Goose	01	4 874	96.9	4 280	100.0	4 383	100.0	6 033	100.0
	02	3 883	100.0	2 529	100.0	1 767	100.0	2 346	97.6
	Total	8 757	98.2	6 809	100.0	6 150	100.0	8 379	99.3
Snow Goose	01	58	1.2	0	0.0	0	0.0	0	0.0
	02	0	0.0	0	0.0	0	0.0	58	2.4
	Total	58	0.7	0	0.0	0	0.0	58	0.7
Brant	01	100	2.0	0	0.0	0	0.0	0	0.0
	Total	100	1.1	0	0.0	0	0.0	0	0.0
Total geese		8 915	6.2	6 809	5.9	6 150	6.5	8 437	6.3
Waterfowl		143 425	100.0	116 351	100.0	94 534	100.0	133 173	100.0

(cont'd)

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

Species	Zone	1977		1978		1979		1980	
		Kill	%	Kill	%	Kill	%	Kill	%
Common Merganser	01	494	1.2	415	0.8	179	0.5	491	1.1
	02	492	3.7	92	0.6	590	4.7	194	1.3
	Total	986	1.8	507	0.8	769	1.6	685	1.1
Red-breasted Merganser	01	0	0.0	65	0.1	46	0.1	0	0.0
	02	336	2.5	0	0.0	248	2.0	129	0.9
	Total	336	0.6	65	0.1	294	0.6	129	0.2
Hooded Merganser	01	206	0.5	828	1.6	431	1.2	168	0.4
	02	134	1.0	39	0.3	82	0.7	337	2.2
	Total	340	0.6	867	1.3	513	1.0	505	0.8
Mallard	01	549	1.3	1 433	2.8	896	2.4	993	2.2
	02	181	1.4	92	0.6	708	5.7	395	2.6
	Total	730	1.4	1 525	2.3	1 604	3.3	1 388	2.3
Black Duck	01	13 990	34.4	19 249	37.5	12 531	34.2	19 368	43.3
	02	5 636	42.8	7 010	48.3	4 842	38.7	8 904	58.8
	Total	19 626	36.4	26 259	39.9	17 373	35.4	28 272	47.2
Gadwall	01	0	0.0	0	0.0	0	0.0	31	0.1
	Total	0	0.0	0	0.0	0	0.0	31	0.1
American Wigeon	01	961	2.4	1 421	2.8	1 328	3.6	1 540	3.4
	02	631	4.8	0	0.0	334	2.7	143	0.9
	Total	1 592	3.0	1 421	2.2	1 662	3.4	1 683	2.8
Green-winged Teal	01	7 581	18.6	9 989	19.5	5 049	13.8	4 832	10.8
	02	2 682	20.4	4 513	31.1	2 272	18.2	1 255	8.3
	Total	10 263	19.1	14 502	22.0	7 321	14.9	6 087	10.2
Blue-winged Teal	01	3 421	8.4	4 914	9.6	4 558	12.4	3 429	7.7
	02	569	4.3	474	3.3	1 162	9.3	513	3.4
	Total	3 990	7.4	5 388	8.2	5 720	11.6	3 942	6.6
Shoveler	01	74	0.2	98	0.2	46	0.1	131	0.3
	Total	74	0.1	98	0.1	46	0.1	131	0.2
Pintail	01	686	1.7	728	1.4	775	2.1	658	1.5
	02	312	2.4	685	4.7	307	2.5	592	3.9
	Total	998	1.9	1 413	2.1	1 082	2.2	1 250	2.1
Wood Duck	01	1 792	4.4	2 079	4.1	1 268	3.5	2 573	5.7
	02	44	0.3	298	2.1	164	1.3	380	2.5
	Total	1 836	3.4	2 377	3.6	1 432	2.9	2 953	4.9
Redhead	01	0	0.0	0	0.0	0	0.0	31	0.1
	Total	0	0.0	0	0.0	0	0.0	31	0.1
Greater Scaup	01	549	1.3	270	0.5	472	1.3	159	0.4
	02	97	0.7	193	1.3	0	0.0	196	1.3
	Total	646	1.2	463	0.7	472	1.0	355	0.6
Lesser Scaup	01	938	2.3	173	0.3	294	0.8	548	1.2
	02	47	0.4	539	3.7	83	0.7	233	1.5
	Total	985	1.8	712	1.1	377	0.8	781	1.3
Ring-necked Duck	01	2 875	7.1	2 740	5.3	3 184	8.7	5 003	11.2
	02	1 141	8.7	316	2.2	342	2.7	485	3.2
	Total	4 016	7.5	3 056	4.6	3 526	7.2	5 488	9.2

(cont'd)

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

Species	Zone	1977		1978		1979		1980	
		Kill	%	Kill	%	Kill	%	Kill	%
Goldeneye	01	4 304	10.6	5 374	10.5	4 395	12.0	3 826	8.5
	02	194	1.5	153	1.1	1 037	8.3	439	2.9
	Total	4 498	8.4	5 527	8.4	5 432	11.1	4 265	7.1
Bufflehead	01	669	1.6	333	0.6	357	1.0	256	0.6
	Total	669	1.2	333	0.5	357	0.7	256	0.4
Total sport ducks		51 585	95.8	64 513	98.0	47 980	97.7	58 232	97.2
Oldsquaw	01	0	0.0	0	0.0	237	0.6	38	0.1
	02	0	0.0	0	0.0	259	2.1	305	2.0
	Total	0	0.0	0	0.0	496	1.0	343	0.6
Common Eider	01	1 178	2.9	448	0.9	244	0.7	399	0.9
	02	224	1.7	0	0.0	0	0.0	0	0.0
	Total	1 402	2.6	448	0.7	244	0.5	399	0.7
Common Scoter	01	0	0.0	0	0.0	46	0.1	0	0.0
	02	47	0.4	0	0.0	27	0.2	0	0.0
	Total	47	0.1	0	0.0	73	0.1	0	0.0
White-winged Scoter	01	0	0.0	293	0.6	149	0.4	99	0.2
	02	0	0.0	0	0.0	0	0.0	104	0.7
	Total	0	0.0	293	0.4	149	0.3	203	0.3
Surf Scoter	01	403	1.0	481	0.9	126	0.3	193	0.4
	02	411	3.1	106	0.7	49	0.4	534	3.5
	Total	814	1.5	587	0.9	175	0.4	727	1.2
Total sea ducks		2 263	4.2	1 328	2.0	1 137	2.3	1 672	2.8
Total ducks		53 848	95.6	65 841	95.3	49 117	94.9	59 904	95.1
Canada Goose	01	741	100.0	1 455	100.0	1 153	100.0	1 493	100.0
	02	1 758	100.0	1 760	97.5	1 475	100.0	1 422	90.1
	Total	2 499	100.0	3 215	98.6	2 628	100.0	2 915	94.9
Large Canada Goose	02	0	0.0	0	0.0	0	0.0	157	9.9
	Total	0	0.0	0	0.0	0	0.0	157	5.1
Blue Goose	02	0	0.0	46	2.5	0	0.0	0	0.0
	Total	0	0.0	46	1.4	0	0.0	0	0.0
Total geese		2 499	4.4	3 261	4.7	2 628	5.1	3 072	4.9
Waterfowl		56 347	100.0	69 102	100.0	51 745	100.0	62 976	100.0

(cont'd)

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

Species	Zone	1977		1978		1979		1980	
		Kill	%	Kill	%	Kill	%	Kill	%
Common Merganser	01	6 807	1.3	11 652	2.8	10 309	2.8	11 152	2.9
	02	3 738	3.3	2 737	2.4	1 578	1.8	4 659	4.2
	Total	10 545	1.7	14 389	2.7	11 887	2.6	15 811	3.2
Red-breasted Merganser	01	4 137	0.8	1 196	0.3	2 229	0.6	2 624	0.7
	02	1 894	1.7	337	0.3	1 106	1.3	814	0.7
	Total	6 031	1.0	1 533	0.3	3 335	0.7	3 438	0.7
Hooded Merganser	01	10 350	2.0	10 349	2.5	7 273	2.0	7 445	1.9
	02	1 107	1.0	886	0.8	3 074	3.5	1 213	1.1
	Total	11 457	1.8	11 235	2.1	10 347	2.2	8 658	1.7
Mallard	01	76 824	14.8	56 426	13.6	58 278	15.6	71 247	18.4
	02	6 776	6.0	6 023	5.2	9 972	11.4	10 057	9.0
	Total	83 600	13.2	62 449	11.8	68 250	14.8	81 304	16.3
Black Duck	01	104 811	20.2	89 955	21.7	82 441	22.1	78 521	20.2
	02	26 646	23.6	40 888	35.6	30 617	35.0	41 878	37.3
	Total	131 457	20.8	130 843	24.7	113 058	24.6	120 399	24.1
Gadwall	01	6 710	1.3	7 484	1.8	9 528	2.6	10 283	2.6
	02	0	0.0	0	0.0	231	0.3	420	0.4
	Total	6 710	1.1	7 484	1.4	9 759	2.1	10 703	2.1
American Wigeon	01	8 501	1.6	6 272	1.5	7 688	2.1	6 173	1.6
	02	642	0.6	598	0.5	1 436	1.6	1 040	0.9
	Total	9 143	1.4	6 870	1.3	9 124	2.0	7 213	1.4
Green-winged Teal	01	65 953	12.7	44 818	10.8	27 241	7.3	31 454	8.1
	02	17 443	15.5	15 755	13.7	8 375	9.6	14 279	12.7
	Total	83 396	13.2	60 573	11.4	35 616	7.7	45 733	9.1
Blue-winged Teal	01	43 044	8.3	33 218	8.0	12 617	3.4	8 297	2.1
	02	1 337	1.2	2 790	2.4	1 367	1.6	2 027	1.8
	Total	44 381	7.0	36 008	6.8	13 984	3.0	10 324	2.1
Shoveler	01	6 388	1.2	2 714	0.7	2 320	0.6	4 943	1.3
	02	281	0.2	40	0.0	210	0.2	192	0.2
	Total	6 669	1.1	2 754	0.5	2 530	0.5	5 135	1.0
Pintail	01	33 971	6.6	16 597	4.0	13 213	3.5	12 395	3.2
	02	6 587	5.8	3 953	3.4	2 100	2.4	4 704	4.2
	Total	40 558	6.4	20 550	3.9	15 313	3.3	17 099	3.4
Wood Duck	01	21 103	4.1	17 620	4.3	17 585	4.7	16 450	4.2
	02	1 373	1.2	399	0.3	928	1.1	1 160	1.0
	Total	22 476	3.6	18 019	3.4	18 513	4.0	17 610	3.5
Redhead	01	3 870	0.7	3 664	0.9	3 300	0.9	2 582	0.7
	Total	3 870	0.6	3 664	0.7	3 300	0.7	2 582	0.5
Canvasback	01	1 069	0.2	3 680	0.9	3 980	1.1	3 035	0.8
	Total	1 069	0.2	3 680	0.7	3 980	0.9	3 035	0.6
Greater Scaup	01	19 028	3.7	18 577	4.5	19 673	5.3	17 898	4.6
	02	1 238	1.1	0	0.0	741	0.8	1 386	1.2
	Total	20 266	3.2	18 577	3.5	20 414	4.4	19 284	3.9

(cont'd)

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

Species	Zone	1977		1978		1979		1980	
		Kill	%	Kill	%	Kill	%	Kill	%
Lesser Scaup	01	26 698	5.1	17 739	4.3	24 395	6.5	25 910	6.7
	02	6 246	5.5	4 282	3.7	2 171	2.5	2 836	2.5
	Total	32 944	5.2	22 021	4.2	26 566	5.8	28 746	5.7
Ring-necked Duck	01	16 566	3.2	18 075	4.4	15 669	4.2	16 419	4.2
	02	3 173	2.8	6 483	5.6	2 259	2.6	4 778	4.3
	Total	19 739	3.1	24 558	4.6	17 928	3.9	21 197	4.2
Goldeneye	01	17 349	3.3	26 250	6.3	21 669	5.8	22 401	5.8
	02	9 026	8.0	13 660	11.9	5 223	6.0	6 374	5.7
	Total	26 375	4.2	39 910	7.5	26 892	5.8	28 775	5.8
Bufflehead	01	3 395	0.7	8 414	2.0	7 157	1.9	4 985	1.3
	02	1 347	1.2	668	0.6	578	0.7	100	0.1
	Total	4 742	0.8	9 082	1.7	7 735	1.7	5 085	1.0
Ruddy Duck	01	0	0.0	0	0.0	1 398	0.4	0	0.0
	Total	0	0.0	0	0.0	1 398	0.3	0	0.0
Total sport ducks		565 428	89.6	494 199	93.4	419 929	91.2	452 131	90.4
Oldsquaw	01	2 722	0.5	3 410	0.8	7 786	2.1	6 057	1.6
	02	1 853	1.6	3 984	3.5	3 685	4.2	1 880	1.7
	Total	4 575	0.7	7 394	1.4	11 471	2.5	7 937	1.6
Common Eider	01	1 943	0.4	2 093	0.5	506	0.1	686	0.2
	02	4 211	3.7	5 709	5.0	4 762	5.4	6 156	5.5
	Total	6 154	1.0	7 802	1.5	5 268	1.1	6 842	1.4
King Eider	01	0	0.0	0	0.0	280	0.1	0	0.0
	Total	0	0.0	0	0.0	280	0.1	0	0.0
Harlequin Duck	02	42	0.0	0	0.0	0	0.0	0	0.0
	Total	42	0.0	0	0.0	0	0.0	0	0.0
Common Scoter	01	21 618	4.2	5 273	1.3	9 836	2.6	10 742	2.8
	02	4 852	4.3	1 239	1.1	983	1.1	1 529	1.4
	Total	26 470	4.2	6 512	1.2	10 819	2.4	12 271	2.5
White-winged Scoter	01	6 984	1.3	3 830	0.9	6 407	1.7	10 002	2.6
	02	3 368	3.0	972	0.8	2 025	2.3	809	0.7
	Total	10 352	1.6	4 802	0.9	8 432	1.8	10 811	2.2
Surf Scoter	01	8 591	1.7	4 872	1.2	0	0.0	6 398	1.6
	02	9 628	8.5	3 501	3.0	4 155	4.7	3 855	3.4
	Total	18 219	2.9	8 373	1.6	4 155	0.9	10 253	2.0
Total sea ducks		65 812	10.4	34 883	6.6	40 425	8.8	48 114	9.6
Total ducks		631 240	89.8	529 082	83.0	460 354	85.2	500 245	80.3
Canada Goose	01	33 778	62.7	44 839	52.1	38 144	61.5	28 750	33.3
	02	17 594	97.4	20 427	90.8	14 550	82.3	22 636	61.6
	Total	51 372	71.4	65 266	60.1	52 694	66.1	51 386	41.8
Snow Goose	01	20 133*	37.3	0	0.0	3 556	5.7	8 454	9.8
	02	473*	2.6	0	0.0	1 219	6.9	4 596	12.5
	Total	20 606*	28.6	0	0.0	4 775	6.0	13 050	10.6

(cont'd)

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

Species	Zone	1977		1978		1979		1980	
		Kill	%	Kill	%	Kill	%	Kill	%
Blue Goose	01	0	0.0	549	0.6	0	0.0	0	0.0
	02	0	0.0	0	0.0	0	0.0	114	0.3
	Total	0	0.0	549	0.5	0	0.0	114	0.1
Greater Snow Goose	01	0*	0.0	40 666	47.3	19 863	32.0	45 993	53.3
	02	0*	0.0	2 082	9.2	1 919	10.8	9 392	25.6
	Total	0*	0.0	42 748	39.4	21 782	27.3	55 385	45.0
Brant	01	0	0.0	0	0.0	416	0.7	3 093	3.6
	Total	0	0.0	0	0.0	416	0.5	3 093	2.5
Total geese		71 978	10.2	108 563	17.0	79 667	14.8	123 028	19.7
Waterfowl		703 218	100.0	637 645	100.0	540 021	100.0	623 273	100.0

\*Lesser and greater snow geese not differentiated in 1977.

(cont'd)

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

Species	Zone	1977		1978		1979		1980	
		Kill	%	Kill	%	Kill	%	Kill	%
Common Merganser	01	625	0.3	1 400	0.5	610	0.2	420	0.2
	02	2 291	0.4	1 024	0.2	2 053	0.5	4 860	1.0
	03	888	0.5	2 826	1.6	2 249	1.2	2 123	1.2
	Total	3 804	0.4	5 250	0.6	4 912	0.6	7 403	0.8
Red-breasted Merganser	01	665	0.3	0	0.0	245	0.1	360	0.1
	02	2 182	0.4	182	0.0	726	0.2	253	0.1
	03	102	0.1	288	0.2	478	0.3	0	0.0
Total	2 949	0.3	470	0.0	1 449	0.2	613	0.1	
Hooded Merganser	01	1 975	0.9	2 218	0.8	1 257	0.5	1 136	0.5
	02	20 793	3.9	15 584	3.1	12 624	3.0	14 310	2.9
	03	5 752	3.6	4 191	2.4	4 534	2.5	5 301	3.1
	Total	28 520	3.1	21 993	2.3	18 415	2.2	20 747	2.3
Mallard	01	81 618	37.1	113 713	41.9	93 235	37.6	91 001	36.3
	02	137 343	25.8	158 047	31.9	122 844	29.4	149 601	30.5
	03	45 969	28.4	50 663	28.7	49 518	27.5	49 870	29.1
	Total	264 930	29.0	322 423	34.2	265 597	31.4	290 472	31.8
Black Duck	01	14 276	6.5	18 774	6.9	16 714	6.7	19 306	7.7
	02	42 496	8.0	45 149	9.1	44 132	10.6	46 366	9.5
	03	24 679	15.3	26 303	14.9	25 905	14.4	26 982	15.7
	Total	81 451	8.9	90 226	9.6	86 751	10.3	92 654	10.2
Gadwall	01	2 472	1.1	7 152	2.6	3 788	1.5	3 611	1.4
	02	2 591	0.5	3 226	0.7	2 161	0.5	3 331	0.7
	03	238	0.1	402	0.2	433	0.2	510	0.3
	Total	5 301	0.6	10 780	1.1	6 382	0.8	7 452	0.8
American Wigeon	01	7 767	3.5	10 616	3.9	13 861	5.6	5 601	2.2
	02	3 694	0.7	7 013	1.4	6 911	1.7	7 533	1.5
	03	1 851	1.1	4 162	2.4	4 479	2.5	2 990	1.7
	Total	13 312	1.5	21 791	2.3	25 251	3.0	16 124	1.8
Green-winged Teal	01	19 385	8.8	14 253	5.3	10 418	4.2	10 931	4.4
	02	25 607	4.8	19 275	3.9	14 033	3.4	20 293	4.1
	03	5 425	3.4	4 845	2.7	6 440	3.6	12 098	7.1
	Total	50 417	5.5	38 373	4.1	30 891	3.7	43 322	4.7
Blue-winged Teal	01	6 399	2.9	12 794	4.7	8 511	3.4	4 188	1.7
	02	23 961	4.5	27 102	5.5	16 943	4.1	15 669	3.2
	03	4 365	2.7	7 314	4.1	6 447	3.6	5 890	3.4
	Total	34 725	3.8	47 210	5.0	31 901	3.8	25 747	2.8
Shoveler	01	1 812	0.8	797	0.3	1 071	0.4	216	0.1
	02	2 045	0.4	345	0.1	595	0.1	828	0.2
	03	92	0.1	0	0.0	304	0.2	273	0.2
	Total	3 949	0.4	1 142	0.1	1 970	0.2	1 317	0.1
Pintail	01	4 782	2.2	4 862	1.8	3 947	1.6	5 804	2.3
	02	7 252	1.4	5 200	1.0	3 045	0.7	5 282	1.1
	03	2 474	1.5	3 165	1.8	2 115	1.2	2 188	1.3
	Total	14 508	1.6	13 227	1.4	9 107	1.1	13 274	1.5
Wood Duck	01	12 411	5.6	18 406	6.8	13 919	5.6	12 902	5.1
	02	78 514	14.8	96 194	19.4	64 781	15.5	73 172	14.9
	03	8 665	5.4	6 953	3.9	10 167	5.6	7 089	4.1
	Total	99 590	10.9	121 553	12.9	88 867	10.5	93 163	10.2

(cont'd)

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

Species	Zone	1977		1978		1979		1980	
		Kill	%	Kill	%	Kill	%	Kill	%
Redhead	01	9 588	4.4	10 174	3.8	19 455	7.8	20 317	8.1
	02	6 287	1.2	5 090	1.0	6 061	1.5	10 001	2.0
	03	582	0.4	1 395	0.8	1 991	1.1	1 481	0.9
	Total	16 457	1.8	16 659	1.8	27 507	3.3	31 799	3.5
Canvasback	01	4 024	1.8	9 597	3.5	10 969	4.4	8 600	3.4
	02	2 315	0.4	1 437	0.3	2 768	0.7	1 887	0.4
	03	503	0.3	1 577	0.9	969	0.5	828	0.5
	Total	6 842	0.7	12 611	1.3	14 706	1.7	11 315	1.2
Greater Scaup	01	11 712	5.3	7 890	2.9	8 009	3.2	13 666	5.5
	02	31 220	5.9	7 408	1.5	15 282	3.7	15 139	3.1
	03	3 657	2.3	4 688	2.7	3 155	1.8	2 098	1.2
	Total	46 589	5.1	19 986	2.1	26 446	3.1	30 903	3.4
Lesser Scaup	01	11 448	5.2	3 451	1.3	10 259	4.1	23 391	9.3
	02	28 630	5.4	14 613	2.9	13 303	3.2	21 785	4.4
	03	8 211	5.1	9 516	5.4	11 541	6.4	10 351	6.0
	Total	48 289	5.3	27 580	2.9	35 103	4.2	55 527	6.1
Ring-necked Duck	01	4 225	1.9	7 125	2.6	5 227	2.1	5 815	2.3
	02	40 975	7.7	39 733	8.0	37 607	9.0	47 567	9.7
	03	23 955	14.8	22 862	12.9	29 873	16.6	24 231	14.1
	Total	69 155	7.6	69 720	7.4	72 707	8.6	77 613	8.5
Goldeneye	01	3 401	1.5	5 613	2.1	4 726	1.9	10 093	4.0
	02	36 529	6.9	23 268	4.7	21 219	5.1	26 302	5.4
	03	13 024	8.1	13 452	7.6	9 474	5.3	9 135	5.3
	Total	52 954	5.8	42 333	4.5	35 419	4.2	45 530	5.0
Bufflehead	01	16 707	7.6	19 882	7.3	14 881	6.0	11 088	4.4
	02	23 352	4.4	18 587	3.8	18 569	4.4	19 360	4.0
	03	9 250	5.7	9 636	5.5	5 639	3.1	4 472	2.6
	Total	49 309	5.4	48 105	5.1	39 089	4.6	34 920	3.8
Ruddy Duck	01	2 054	0.9	966	0.4	2 533	1.0	1 081	0.4
	02	429	0.1	0	0.0	329	0.1	0	0.0
	03	0	0.0	0	0.0	0	0.0	376	0.2
	Total	2 483	0.3	966	0.1	2 862	0.3	1 457	0.2
Total sport ducks		895 534	98.1	932 398	98.9	825 332	97.6	901 352	98.8
Oldsquaw	01	424	0.2	207	0.1	563	0.2	369	0.1
	02	1 470	0.3	1 464	0.3	2 472	0.6	1 395	0.3
	03	0	0.0	82	0.0	584	0.3	355	0.2
	Total	1 894	0.2	1 753	0.2	3 619	0.4	2 119	0.2
Common Eider	02	0	0.0	220	0.0	558	0.1	0	0.0
	Total	0	0.0	220	0.0	558	0.1	0	0.0
King Eider	03	0	0.0	82	0.0	0	0.0	0	0.0
	Total	0	0.0	82	0.0	0	0.0	0	0.0
Harlequin Duck	03	0	0.0	0	0.0	146	0.1	0	0.0
	Total	0	0.0	0	0.0	146	0.0	0	0.0

(cont'd)

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

Species	Zone	1977		1978		1979		1980	
		Kill	%	Kill	%	Kill	%	Kill	%
Common Scoter	01	765	0.3	0	0.0	0	0.0	252	0.1
	02	2 325	0.4	1 495	0.3	1 384	0.3	253	0.1
	03	506	0.3	566	0.3	624	0.3	309	0.2
	Total	3 596	0.4	2 061	0.2	2 008	0.2	814	0.1
White-winged Scoter	01	804	0.4	1 363	0.5	2 402	1.0	271	0.1
	02	3 300	0.6	1 476	0.3	1 851	0.4	2 015	0.4
	03	92	0.1	598	0.3	1 632	0.9	707	0.4
	Total	4 196	0.5	3 437	0.4	5 885	0.7	2 993	0.3
Surf Scoter	01	590	0.3	0	0.0	1 345	0.5	212	0.1
	02	6 189	1.2	2 232	0.5	5 071	1.2	2 761	0.6
	03	1 312	0.8	977	0.6	1 458	0.8	1 885	1.1
	Total	8 091	0.9	3 209	0.3	7 874	0.9	4 858	0.5
Total sea ducks		17 777	1.9	10 762	1.1	20 090	2.4	10 784	1.2
Total ducks		913 311	93.2	943 160	93.6	845 422	91.7	912 136	91.4
Canada Goose	01	12 611	92.7	18 197	93.4	21 174	95.9	22 143	96.9
	02	29 426	99.3	29 231	99.5	27 121	97.2	43 235	98.5
	03	17 759	75.3	7 496	47.7	17 657	67.7	12 350	64.1
	Total	59 796	89.5	54 924	85.0	65 952	86.7	77 728	90.4
Large Canada Goose	01	0	0.0	1 286	6.6	0	0.0	0	0.0
	03	0	0.0	0	0.0	0	0.0	158	0.8
	Total	0	0.0	1 286	2.0	0	0.0	158	0.2
Snow Goose	01	896	6.6	0	0.0	804	3.6	720	3.1
	02	210	0.7	0	0.0	673	2.4	209	0.5
	03	5 822	24.7	1 707	10.9	4 959	19.0	6 268	32.5
	Total	6 928	10.4	1 707	2.6	6 436	8.5	7 197	8.4
Blue Goose	01	0	0.0	0	0.0	96	0.4	0	0.0
	02	0	0.0	147	0.5	0	0.0	0	0.0
	03	0	0.0	5 151	32.8	3 449	13.2	402	2.1
	Total	0	0.0	5 298	8.2	3 545	4.7	402	0.5
Greater Snow Goose	03	0	0.0	1 367	8.7	0	0.0	94	0.5
	Total	0	0.0	1 367	2.1	0	0.0	94	0.1
Ross' Goose	01	101	0.7	0	0.0	0	0.0	0	0.0
	Total	101	0.2	0	0.0	0	0.0	0	0.0
Brant	02	0	0.0	0	0.0	108	0.4	434	1.0
	Total	0	0.0	0	0.0	108	0.1	434	0.5
Total geese		66 825	6.8	64 582	6.4	76 041	8.3	86 013	8.6
Waterfowl		980 136	100.0	1 007 742	100.0	921 463	100.0	998 149	100.0

(cont'd)

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

Species	Zone	1977		1978		1979		1980	
		Kill	%	Kill	%	Kill	%	Kill	%
Common Merganser	02	0	0.0	311	0.3	0	0.0	0	0.0
	Total	0	0.0	311	0.1	0	0.0	0	0.0
Hooded Merganser	01	136	0.1	154	0.1	0	0.0	339	0.2
	02	206	0.2	292	0.3	453	0.4	171	0.2
	Total	342	0.1	446	0.1	453	0.1	510	0.2
Mallard	01	99 382	56.9	153 529	62.8	155 003	59.2	125 766	56.4
	02	63 701	75.2	86 059	73.7	90 114	74.1	84 226	75.2
	Total	163 083	62.9	239 588	66.3	245 117	63.9	209 992	62.7
Black Duck	01	614	0.4	400	0.2	0	0.0	1 591	0.7
	02	144	0.2	0	0.0	260	0.2	551	0.5
	Total	758	0.3	400	0.1	260	0.1	2 142	0.6
Gadwall	01	11 215	6.4	10 565	4.3	13 324	5.1	9 520	4.3
	02	3 014	3.6	2 670	2.3	2 893	2.4	1 616	1.4
	Total	14 229	5.5	13 235	3.7	16 217	4.2	11 136	3.3
American Wigeon	01	7 592	4.3	8 838	3.6	8 066	3.1	7 123	3.2
	02	2 357	2.8	4 174	3.6	2 024	1.7	2 106	1.9
	Total	9 949	3.8	13 012	3.6	10 090	2.6	9 229	2.8
Green-winged Teal	01	12 577	7.2	10 503	4.3	5 467	2.1	7 810	3.5
	02	3 504	4.1	3 941	3.4	5 374	4.4	5 137	4.6
	Total	16 081	6.2	14 444	4.0	10 841	2.8	12 947	3.9
Blue-winged Teal	01	7 008	4.0	6 505	2.7	11 581	4.4	8 800	3.9
	02	3 479	4.1	2 412	2.1	3 898	3.2	2 695	2.4
	Total	10 487	4.0	8 917	2.5	15 479	4.0	11 495	3.4
Shoveler	01	5 281	3.0	6 892	2.8	8 359	3.2	5 419	2.4
	02	956	1.1	1 023	0.9	646	0.5	890	0.8
	Total	6 237	2.4	7 915	2.2	9 005	2.3	6 309	1.9
Pintail	01	9 725	5.6	16 511	6.8	15 136	5.8	8 698	3.9
	02	1 911	2.3	4 234	3.6	5 178	4.3	3 980	3.6
	Total	11 636	4.5	20 745	5.7	20 314	5.3	12 678	3.8
Wood Duck	01	823	0.5	154	0.1	757	0.3	1 616	0.7
	02	0	0.0	0	0.0	0	0.0	559	0.5
	Total	823	0.3	154	0.0	757	0.2	2 175	0.6
Redhead	01	877	0.5	5 891	2.4	8 189	3.1	3 211	1.4
	02	431	0.5	2 433	2.1	3 862	3.2	1 956	1.7
	Total	1 308	0.5	8 324	2.3	12 051	3.1	5 167	1.5
Canvasback	01	2 187	1.3	4 353	1.8	6 526	2.5	4 502	2.0
	02	738	0.9	247	0.2	362	0.3	341	0.3
	Total	2 925	1.1	4 600	1.3	6 888	1.8	4 843	1.4
Greater Scaup	01	0	0.0	1 880	0.8	375	0.1	763	0.3
	02	0	0.0	0	0.0	322	0.3	0	0.0
	Total	0	0.0	1 880	0.5	697	0.2	763	0.2
Lesser Scaup	01	9 128	5.2	8 501	3.5	13 000	5.0	24 687	11.1
	02	2 373	2.8	6 387	5.5	3 144	2.6	2 772	2.5
	Total	11 501	4.4	14 888	4.1	16 144	4.2	27 459	8.2

(cont'd)

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

Species	Zone	1977		1978		1979		1980	
		Kill	%	Kill	%	Kill	%	Kill	%
Ring-necked Duck	01	4 180	2.4	5 706	2.3	9 395	3.6	9 324	4.2
	02	1 644	1.9	1 097	0.9	2 209	1.8	3 295	2.9
	Total	5 824	2.2	6 803	1.9	11 604	3.0	12 619	3.8
Goldeneye	01	0	0.0	1 866	0.8	1 490	0.6	1 771	0.8
	02	0	0.0	862	0.7	843	0.7	856	0.8
	Total	0	0.0	2 728	0.8	2 333	0.6	2 627	0.8
Bufflehead	01	3 039	1.7	2 186	0.9	3 005	1.1	1 572	0.7
	02	254	0.3	496	0.4	0	0.0	388	0.3
	Total	3 293	1.3	2 682	0.7	3 005	0.8	1 960	0.6
Ruddy Duck	01	741	0.4	0	0.0	2 127	0.8	384	0.2
	Total	741	0.3	0	0.0	2 127	0.6	384	0.1
Total sport ducks		259 217	99.9	361 072	100.0	383 382	100.0	334 435	99.8
Oldsquaw	02	0	0.0	123	0.1	0	0.0	242	0.2
	Total	0	0.0	123	0.0	0	0.0	242	0.1
King Eider	01	0	0.0	0	0.0	0	0.0	203	0.1
	02	0	0.0	0	0.0	0	0.0	121	0.1
	Total	0	0.0	0	0.0	0	0.0	324	0.1
White-winged Scoter	01	195	0.1	0	0.0	0	0.0	0	0.0
	Total	195	0.1	0	0.0	0	0.0	0	0.0
Surf Scoter	02	0	0.0	0	0.0	0	0.0	121	0.1
	Total	0	0.0	0	0.0	0	0.0	121	0.0
Total sea ducks		195	0.1	123	0.0	0	0.0	687	0.2
Total ducks		259 412	77.3	361 195	74.4	383 382	66.2	335 122	66.3
Canada Goose	01	1 428	2.8	278	0.3	390	0.3	4 103	3.0
	02	1 893	7.8	179	0.6	1 172	2.8	3 487	10.1
	Total	3 321	4.4	457	0.4	1 562	0.8	7 590	4.5
Small Canada Goose	01	5 671	11.0	9 040	9.5	28 722	18.7	14 386	10.6
	02	3 123	12.8	3 640	12.3	9 823	23.4	6 833	19.8
	Total	8 794	11.6	12 680	10.2	38 545	19.7	21 219	12.5
Large Canada Goose	01	16 940	32.7	51 324	54.2	36 233	23.6	32 079	23.6
	02	16 006	65.8	18 908	64.1	21 652	57.6	14 502	42.1
	Total	32 946	43.3	70 232	56.5	57 885	29.6	46 581	27.4
Snow Goose	01	17 555	33.9	19 222	20.3	59 619	38.8	68 932	50.8
	02	1 368	5.6	3 679	12.5	6 435	15.3	7 358	21.3
	Total	18 923	24.9	22 901	18.4	66 054	33.8	76 290	44.8
Blue Goose	01	10 167	19.6	14 283	15.1	28 203	18.3	14 194	10.5
	02	1 935	8.0	2 661	9.0	2 677	6.4	612	1.8
	Total	12 102	15.9	16 944	13.6	30 880	15.8	14 806	8.7
White-fronted Goose	01	0	0.0	103	0.1	105	0.1	1 057	0.8
	02	0	0.0	231	0.8	0	0.0	1 679	4.9
	Total	0	0.0	334	0.3	105	0.1	2 736	1.6

(cont'd)

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

Species	Zone	1977		1978		1979		1980	
		Kill	%	Kill	%	Kill	%	Kill	%
Ross' Goose	01	0	0.0	484	0.5	456	0.3	925	0.7
	02	0	0.0	179	0.6	208	0.5	0	0.0
	Total	0	0.0	663	0.5	664	0.3	925	0.5
Total geese		76 086	22.7	124 211	25.6	195 695	33.8	170 147	33.7
Waterfowl		335 498	100.0	485 406	100.0	579 077	100.0	505 269	100.0

(cont'd)

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

Species	Zone	1977		1978		1979		1980	
		Kill	%	Kill	%	Kill	%	Kill	%
Hooded Merganser	02	0	0.0	417	0.3	0	0.0	152	0.1
	03	0	0.0	215	0.1	0	0.0	0	0.0
	Total	0	0.0	632	0.1	0	0.0	152	0.0
Mallard	01	118 835	75.0	118 016	79.3	117 330	67.7	116 997	81.0
	02	107 011	78.9	106 978	78.3	119 394	77.3	107 808	83.1
	03	166 594	77.6	171 738	71.1	185 940	72.9	129 841	76.7
	Total	392 440	77.1	396 732	75.2	422 664	72.5	354 646	80.0
Black Duck	01	0	0.0	0	0.0	0	0.0	265	0.2
	02	277	0.2	0	0.0	396	0.3	0	0.0
	03	265	0.1	0	0.0	0	0.0	0	0.0
	Total	542	0.1	0	0.0	396	0.1	265	0.1
Gadwall	01	6 267	4.0	10 268	6.9	15 470	8.9	9 390	6.5
	02	7 726	5.7	6 741	4.9	6 415	4.2	4 269	3.3
	03	12 600	5.9	20 505	8.5	15 875	6.2	8 211	4.8
	Total	26 593	5.2	37 514	7.1	37 760	6.5	21 870	4.9
American Wigeon	01	10 014	6.3	6 435	4.3	5 992	3.5	3 927	2.7
	02	7 513	5.5	5 679	4.2	2 989	1.9	2 817	2.2
	03	8 549	4.0	12 959	5.4	11 067	4.3	6 363	3.8
	Total	26 076	5.1	25 073	4.8	20 048	3.4	13 107	3.0
Green-winged Teal	01	1 876	1.2	1 550	1.0	2 398	1.4	796	0.6
	02	1 566	1.2	1 688	1.2	4 120	2.7	2 057	1.6
	03	5 646	2.6	3 164	1.3	2 037	0.8	1 128	0.7
	Total	9 088	1.8	6 402	1.2	8 555	1.5	3 981	0.9
Blue-winged Teal	01	5 366	3.4	2 645	1.8	6 438	3.7	2 806	1.9
	02	4 339	3.2	2 416	1.8	4 319	2.8	2 314	1.8
	03	3 898	1.8	8 302	3.4	6 144	2.4	4 282	2.5
	Total	13 603	2.7	13 363	2.5	16 901	2.9	9 402	2.1
Shoveler	01	1 082	0.7	2 557	1.7	3 626	2.1	1 579	1.1
	02	1 646	1.2	3 210	2.3	2 749	1.8	2 437	1.9
	03	1 620	0.8	5 319	2.2	8 319	3.3	4 282	2.5
	Total	4 348	0.9	11 086	2.1	14 694	2.5	8 298	1.9
Pintail	01	9 238	5.8	5 120	3.4	11 915	6.9	4 596	3.2
	02	4 084	3.0	1 751	1.3	5 211	3.4	4 084	3.1
	03	6 622	3.1	6 785	2.8	12 457	4.9	9 265	5.5
	Total	19 944	3.9	13 656	2.6	29 583	5.1	17 945	4.0
Wood Duck	03	0	0.0	0	0.0	106	0.0	0	0.0
	Total	0	0.0	0	0.0	106	0.0	0	0.0
Redhead	01	1 940	1.2	700	0.5	4 954	2.9	366	0.3
	02	168	0.1	1 769	1.3	2 938	1.9	1 009	0.8
	03	1 821	0.8	2 085	0.9	4 656	1.8	2 993	1.8
	Total	3 929	0.8	4 554	0.9	12 548	2.2	4 368	1.0
Canvasback	01	1 666	1.1	903	0.6	3 991	2.3	880	0.6
	02	124	0.1	665	0.5	1 283	0.8	152	0.1
	03	2 399	1.1	3 137	1.3	2 319	0.9	260	0.2
	Total	4 189	0.8	4 705	0.9	7 593	1.3	1 292	0.3

(cont'd)



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

Species	Zone	1977		1978		1979		1980	
		Kill	%	Kill	%	Kill	%	Kill	%
Lesser Scaup	01	2 146	1.4	480	0.3	547	0.3	2 333	1.6
	02	1 251	0.9	4 201	3.1	2 042	1.3	563	0.4
	03	4 122	1.9	5 721	2.4	4 779	1.9	2 065	1.2
	Total	7 519	1.5	10 402	2.0	7 368	1.3	4 961	1.1
Ring-necked Duck	02	0	0.0	0	0.0	354	0.2	608	0.5
	03	241	0.1	1 347	0.6	844	0.3	152	0.1
	Total	241	0.0	1 347	0.3	1 198	0.2	760	0.2
Goldeneye	01	0	0.0	0	0.0	465	0.3	0	0.0
	02	0	0.0	593	0.4	201	0.1	337	0.3
	Total	0	0.0	593	0.1	666	0.1	337	0.1
Bufflehead	01	0	0.0	220	0.1	0	0.0	511	0.4
	02	0	0.0	176	0.1	1 261	0.8	638	0.5
	03	246	0.1	430	0.2	266	0.1	489	0.3
	Total	246	0.0	826	0.2	1 527	0.3	1 638	0.4
Ruddy Duck	01	0	0.0	0	0.0	210	0.1	0	0.0
	02	0	0.0	0	0.0	499	0.3	529	0.4
	Total	0	0.0	0	0.0	709	0.1	529	0.1
Total sport ducks		508 758	100.0	526 885	99.9	582 316	99.9	443 551	100.0
White-winged Scoter	02	0	0.0	417	0.3	226	0.1	0	0.0
	03	0	0.0	0	0.0	151	0.1	0	0.0
	Total	0	0.0	417	0.1	377	0.1	0	0.0
Total sea ducks		0	0.0	417	0.1	377	0.1	0	0.0
Total ducks		508 758	80.7	527 302	79.2	582 693	79.3	443 551	72.1
Canada Goose	01	1 396	2.0	543	0.7	309	0.4	4 136	4.0
	02	121	1.0	0	0.0	0	0.0	54	0.3
	03	635	1.6	0	0.0	1 179	2.4	449	0.9
	Total	2 152	1.8	543	0.4	1 488	1.0	4 639	2.7
Small Canada Goose	01	18 170	25.7	15 511	21.4	22 751	28.2	31 865	31.1
	02	2 173	18.4	522	3.2	2 697	12.0	2 009	11.2
	03	3 464	8.9	5 060	10.2	2 930	6.0	6 400	12.6
	Total	23 807	19.6	21 093	15.2	28 378	18.6	40 274	23.5
Large Canada Goose	01	10 251	14.5	13 003	17.9	10 239	12.7	16 441	16.0
	02	9 255	78.5	12 855	77.8	17 338	76.9	10 030	55.7
	03	20 174	51.6	25 979	52.5	26 065	53.1	22 873	44.9
	Total	39 680	32.6	51 837	37.4	53 642	35.2	49 344	28.8
Snow Goose	01	5 086	7.2	4 815	6.6	8 526	10.6	7 714	7.5
	03	6 170	15.8	2 556	5.2	3 057	6.2	7 195	14.1
	Total	11 256	9.3	7 371	5.3	11 583	7.6	14 909	8.7
Blue Goose	01	135	0.2	673	0.9	679	0.8	1 415	1.4
	03	1 879	4.8	3 640	7.4	883	1.8	177	0.3
	Total	2 014	1.7	4 313	3.1	1 562	1.0	1 592	0.9

(cont'd)

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

Species	Zone	1977		1978		1979		1980	
		Kill	%	Kill	%	Kill	%	Kill	%
White-fronted Goose	01	34 556	48.9	35 549	49.0	32 494	40.2	38 768	37.8
	02	242	2.1	2 620	15.9	1 941	8.6	4 978	27.6
	03	6 751	17.3	11 521	23.3	14 744	30.0	13 676	26.8
	Total	41 549	34.2	49 690	35.9	49 179	32.3	57 422	33.5
Ross' Goose	01	1 126	1.6	2 424	3.3	5 786	7.2	1 877	1.8
	02	0	0.0	519	3.1	578	2.6	937	5.2
	03	0	0.0	725	1.5	238	0.5	171	0.3
	Total	1 126	0.9	3 668	2.6	6 602	4.3	2 985	1.7
Brant	01	0	0.0	0	0.0	0	0.0	223	0.2
	Total	0	0.0	0	0.0	0	0.0	223	0.1
Total geese		121 584	19.3	138 515	20.8	152 434	20.7	171 388	27.9
Waterfowl		630 342	100.0	665 817	100.0	735 127	100.0	614 939	100.0

(cont'd)

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

Species	Zone	1977		1978		1979		1980	
		Kill	%	Kill	%	Kill	%	Kill	%
Common Merganser	02	0	0.0	0	0.0	175	0.0	0	0.0
	Total	0	0.0	0	0.0	175	0.0	0	0.0
Mallard	01	152 094	61.2	118 886	58.6	130 023	65.2	108 112	59.2
	02	363 495	68.2	260 721	68.9	356 450	74.3	374 268	73.9
	Total	515 589	66.0	379 607	65.3	486 473	71.6	482 380	70.0
Black Duck	01	0	0.0	0	0.0	251	0.1	0	0.0
	Total	0	0.0	0	0.0	251	0.0	0	0.0
Gadwall	01	13 127	5.3	13 841	6.8	15 009	7.5	12 153	6.7
	02	26 447	5.0	23 268	6.1	17 418	3.6	29 663	5.9
	Total	39 574	5.1	37 109	6.4	32 427	4.8	41 816	6.1
American Wigeon	01	19 444	7.8	15 012	7.4	11 416	5.7	11 840	6.5
	02	36 403	6.8	19 113	5.0	14 378	3.0	11 812	2.3
	Total	55 847	7.1	34 125	5.9	25 794	3.8	23 652	3.4
Green-winged Teal	01	9 411	3.8	6 344	3.1	3 800	1.9	7 280	4.0
	02	17 079	3.2	13 109	3.5	13 468	2.8	6 207	1.2
	Total	26 490	3.4	19 453	3.3	17 268	2.5	13 487	2.0
Blue-winged Teal	01	10 510	4.2	9 394	4.6	4 874	2.4	9 025	4.9
	02	14 011	2.6	10 791	2.9	15 207	3.2	16 314	3.2
	Total	24 521	3.1	20 185	3.5	20 081	3.0	25 339	3.7
Shoveler	01	6 191	2.5	6 969	3.4	4 700	2.4	6 934	3.8
	02	11 362	2.1	12 806	3.4	13 097	2.7	18 744	3.7
	Total	17 553	2.2	19 775	3.4	17 797	2.6	25 678	3.7
Pintail	01	32 872	13.2	21 298	10.5	20 595	10.3	20 161	11.0
	02	38 454	7.2	16 759	4.4	27 666	5.8	23 713	4.7
	Total	71 326	9.1	38 057	6.5	48 261	7.1	43 874	6.4
Redhead	01	1 337	0.5	2 604	1.3	2 393	1.2	2 679	1.5
	02	12 604	2.4	5 180	1.4	8 211	1.7	5 266	1.0
	Total	13 941	1.8	7 784	1.3	10 604	1.6	7 945	1.2
Canvasback	01	349	0.1	412	0.2	783	0.4	719	0.4
	02	1 365	0.3	2 208	0.6	1 572	0.3	4 883	1.0
	Total	1 714	0.2	2 620	0.5	2 355	0.3	5 602	0.8
Lesser Scaup	01	1 410	0.6	5 871	2.9	3 634	1.8	2 246	1.2
	02	7 254	1.4	9 597	2.5	6 339	1.3	10 904	2.2
	Total	8 664	1.1	15 468	2.7	9 973	1.5	13 150	1.9
Ring-necked Duck	01	1 322	0.5	0	0.0	0	0.0	262	0.1
	02	235	0.0	746	0.2	475	0.1	303	0.1
	Total	1 557	0.2	746	0.1	475	0.1	565	0.1

(cont'd)

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

Species	Zone	1977		1978		1979		1980	
		Kill	%	Kill	%	Kill	%	Kill	%
Goldeneye	01	0	0.0	1 112	0.5	278	0.1	438	0.2
	02	484	0.1	1 319	0.3	1 168	0.2	1 643	0.3
	Total	484	0.1	2 431	0.4	1 446	0.2	2 081	0.3
Bufflehead	01	221	0.1	1 297	0.6	1 103	0.6	586	0.3
	02	3 122	0.6	2 657	0.7	2 954	0.6	2 300	0.5
	Total	3 343	0.4	3 954	0.7	4 057	0.6	2 886	0.4
Ruddy Duck	01	221	0.1	0	0.0	0	0.0	86	0.0
	02	162	0.0	0	0.0	1 140	0.2	258	0.1
	Total	383	0.0	0	0.0	1 140	0.2	344	0.0
Total sport ducks		780 986	100.0	581 314	99.9	678 577	99.9	688 799	100.0
Harlequin Duck	01	0	0.0	0	0.0	583	0.3	0	0.0
	Total	0	0.0	0	0.0	583	0.1	0	0.0
White-winged Scoter	02	123	0.0	339	0.1	175	0.0	0	0.0
	Total	123	0.0	339	0.1	175	0.0	0	0.0
Total sea ducks		123	0.0	339	0.1	758	0.1	0	0.0
Total ducks		781 109	87.3	581 653	84.3	679 335	86.6	688 799	83.8
Canada Goose	01	4 421	5.9	164	0.3	728	1.4	1 844	2.6
	02	864	2.2	0	0.0	250	0.5	1 813	2.9
	Total	5 285	4.7	164	0.2	978	0.9	3 657	2.7
Small Canada Goose	01	12 306	16.5	9 419	15.2	11 284	21.3	11 456	16.4
	02	8 483	21.7	9 244	20.1	17 796	34.4	14 911	23.5
	Total	20 789	18.3	18 663	17.3	29 080	27.8	26 367	19.8
Large Canada Goose	01	19 194	25.8	29 662	47.9	24 043	45.4	37 987	54.4
	02	22 429	57.4	32 136	69.8	28 710	55.5	35 700	56.3
	Total	41 623	36.7	61 798	57.2	52 753	50.4	73 687	55.3
Snow Goose	01	25 451	34.2	15 373	24.8	8 787	16.6	6 829	9.8
	02	1 244	3.2	0	0.0	684	1.3	2 974	4.7
	Total	26 695	23.5	15 373	14.2	9 471	9.0	9 803	7.4
White-fronted Goose	01	10 730	14.4	6 857	11.1	7 311	13.8	11 205	16.1
	02	5 409	13.8	4 642	10.1	4 108	7.9	7 571	11.9
	Total	16 139	14.2	11 499	10.6	11 419	10.9	18 776	14.1
Ross' Goose	01	2 259	3.0	478	0.8	856	1.6	450	0.6
	02	657	1.7	0	0.0	161	0.3	456	0.7
	Total	2 916	2.6	478	0.4	1 017	1.0	906	0.7
Total geese		113 447	12.7	107 975	15.7	104 718	13.4	133 196	16.2
Waterfowl		894 556	100.0	689 628	100.0	784 053	100.0	821 995	100.0

(cont'd)

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

Species	Zone	1977		1978		1979		1980	
		Kill	%	Kill	%	Kill	%	Kill	%
Common Merganser	02	52	0.0	66	0.0	67	0.0	55	0.0
	Total	52	0.0	66	0.0	67	0.0	55	0.0
Red-breasted Merganser	01	144	0.1	0	0.0	0	0.0	0	0.0
	02	0	0.0	0	0.0	236	0.2	0	0.0
	Total	144	0.1	0	0.0	236	0.1	0	0.0
Hooded Merganser	01	91	0.1	0	0.0	0	0.0	89	0.1
	02	317	0.2	0	0.0	0	0.0	57	0.1
	Total	408	0.2	0	0.0	0	0.0	146	0.1
Mallard	01	53 585	52.4	40 770	61.6	40 195	59.2	41 884	56.8
	02	75 670	48.1	76 013	52.7	76 315	55.9	61 467	54.6
	Total	129 255	49.8	116 783	55.5	116 510	57.0	103 351	55.5
Black Duck	01	0	0.0	0	0.0	281	0.4	0	0.0
	02	52	0.0	66	0.0	0	0.0	0	0.0
	Total	52	0.0	66	0.0	281	0.1	0	0.0
Gadwall	01	1 815	1.8	350	0.5	152	0.2	159	0.2
	02	810	0.5	1 413	1.0	853	0.6	552	0.5
	Total	2 625	1.0	1 763	0.8	1 005	0.5	711	0.4
American Wigeon	01	10 421	10.2	4 821	7.3	5 818	8.6	6 979	9.5
	02	24 802	15.8	24 516	17.0	21 909	16.1	16 268	14.5
	Total	35 223	13.6	29 337	13.9	27 727	13.6	23 247	12.5
Green-winged Teal	01	6 686	6.5	5 544	8.4	4 881	7.2	7 043	9.5
	02	27 482	17.5	18 009	12.5	13 945	10.2	9 217	8.2
	Total	34 168	13.2	23 553	11.2	18 826	9.2	16 260	8.7
Blue-winged Teal	01	8 390	8.2	1 312	2.0	1 880	2.8	991	1.3
	02	552	0.4	272	0.2	315	0.2	222	0.2
	Total	8 942	3.4	1 584	0.8	2 195	1.1	1 213	0.7
Shoveler	01	2 388	2.3	880	1.3	560	0.8	666	0.9
	02	2 423	1.5	1 414	1.0	939	0.7	1 668	1.5
	Total	4 811	1.9	2 294	1.1	1 499	0.7	2 334	1.3
Pintail	01	8 819	8.6	6 448	9.7	1 838	2.7	5 270	7.1
	02	21 545	13.7	16 552	11.5	16 034	11.7	15 645	13.9
	Total	30 364	11.7	23 000	10.9	17 872	8.7	20 915	11.2
Wood Duck	01	1 672	1.6	142	0.2	0	0.0	221	0.3
	02	486	0.3	207	0.1	741	0.5	970	0.9
	Total	2 158	0.8	349	0.2	741	0.4	1 191	0.6
Redhead	01	665	0.7	674	1.0	358	0.5	0	0.0
	02	139	0.1	0	0.0	0	0.0	126	0.1
	Total	804	0.3	674	0.3	358	0.2	126	0.1
Canvasback	01	91	0.1	103	0.2	0	0.0	487	0.7
	02	78	0.0	146	0.1	0	0.0	869	0.8
	Total	169	0.1	249	0.1	0	0.0	1 356	0.7
Greater Scaup	01	84	0.1	180	0.3	134	0.2	243	0.3
	02	515	0.3	137	0.1	1 355	1.0	534	0.5
	Total	599	0.2	317	0.2	1 489	0.7	777	0.4

(cont'd)

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

Species	Zone	1977		1978		1979		1980	
		Kill	%	Kill	%	Kill	%	Kill	%
Lesser Scaup	01	2 603	2.5	1 100	1.7	1 338	2.0	1 640	2.2
	02	867	0.6	1 834	1.3	569	0.4	436	0.4
	Total	3 470	1.3	2 934	1.4	1 907	0.9	2 076	1.1
Ring-necked Duck	01	880	0.9	757	1.1	1 878	2.8	317	0.4
	02	176	0.1	636	0.4	336	0.2	0	0.0
	Total	1 056	0.4	1 393	0.7	2 214	1.1	317	0.2
Goldeneye	01	730	0.7	575	0.9	6 464	9.5	3 825	5.2
	02	114	0.1	1 039	0.7	935	0.7	1 122	1.0
	Total	844	0.3	1 614	0.8	7 399	3.6	4 947	2.7
Bufflehead	01	3 078	3.0	2 129	3.2	2 153	3.2	3 837	5.2
	02	1 230	0.8	1 606	1.1	1 913	1.4	3 085	2.7
	Total	4 308	1.7	3 735	1.8	4 066	2.0	6 922	3.7
Ruddy Duck	01	0	0.0	161	0.2	0	0.0	0	0.0
	Total	0	0.0	161	0.1	0	0.0	0	0.0
Total sport ducks		259 452	99.9	209 872	99.7	204 392	100.0	185 944	99.8
Harlequin Duck	01	0	0.0	0	0.0	0	0.0	106	0.1
	Total	0	0.0	0	0.0	0	0.0	106	0.1
Common Scoter	01	91	0.1	95	0.1	0	0.0	0	0.0
	Total	91	0.0	95	0.0	0	0.0	0	0.0
White-winged Scoter	01	0	0.0	113	0.2	0	0.0	0	0.0
	02	63	0.0	238	0.2	0	0.0	113	0.1
	Total	63	0.0	351	0.2	0	0.0	113	0.1
Surf Scoter	01	0	0.0	77	0.1	0	0.0	0	0.0
	02	0	0.0	143	0.1	0	0.0	111	0.1
	Total	0	0.0	220	0.1	0	0.0	111	0.1
Total sea ducks		154	0.1	666	0.3	0	0.0	330	0.2
Total ducks		259 606	95.9	210 538	94.4	204 392	92.3	186 274	90.9
Canada Goose	01	0	0.0	176	2.5	919	10.0	9 506	97.0
	02	0	0.0	0	0.0	404	5.1	7 040	78.7
	Total	0	0.0	176	1.4	1 323	7.7	16 546	88.3
Small Canada Goose	01	1 149	19.2	1 353	19.4	1 816	19.7	0	0.0
	02	3 438	68.1	733	13.0	463	5.9	0	0.0
	Total	4 587	41.6	2 086	16.6	2 279	13.3	0	0.0
Large Canada Goose	01	4 751	79.3	5 138	73.8	6 469	70.3	48	0.5
	02	1 100	21.8	4 513	80.3	5 152	65.2	240	2.7
	Total	5 851	53.0	9 651	76.7	11 621	67.9	288	1.5
Snow Goose	02	508	10.1	374	6.7	1 799	22.8	1 570	17.5
	Total	508	4.6	374	3.0	1 799	10.5	1 570	8.4
White-fronted Goose	01	92	1.5	292	4.2	0	0.0	77	0.8
	02	0	0.0	0	0.0	89	1.1	0	0.0
	Total	92	0.8	292	2.3	89	0.5	77	0.4

(cont'd)

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

Species	Zone	1977		1978		1979		1980	
		Kill	%	Kill	%	Kill	%	Kill	%
Brant	01	0	0.0	0	0.0	0	0.0	167	1.7
	02	0	0.0	0	0.0	0	0.0	101	1.1
	Total	0	0.0	0	0.0	0	0.0	268	1.4
Total geese		11 038	4.1	12 579	5.6	17 111	7.7	18 749	9.1
Waterfowl		270 644	100.0	223 117	100.0	221 503	100.0	205 023	100.0

(cont'd)

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

Species	1977		1978		1979		1980	
	Kill	%	Kill	%	Kill	%	Kill	%
Common Merganser	735	3.5	0	0.0	0	0.0	346	3.0
Red-breasted Merganser	829	4.0	0	0.0	0	0.0	746	6.5
Mallard	10 715	51.6	6 736	37.1	2 715	28.8	4 994	43.2
American Wigeon	1 443	6.9	4 422	24.4	1 473	15.6	554	4.8
Green-winged Teal	246	1.2	1 549	8.5	1 261	13.4	441	3.8
Blue-winged Teal	625	3.0	0	0.0	0	0.0	132	1.1
Shoveler	123	0.6	374	2.1	750	8.0	691	6.0
Pintail	645	3.1	2 155	11.9	1 703	18.1	0	0.0
Lesser Scaup	2 621	12.6	681	3.8	1 191	12.6	1 364	11.8
Ring-necked Duck	799	3.8	718	4.0	0	0.0	132	1.1
Goldeneye	0	0.0	1 162	6.4	0	0.0	524	4.5
Bufflehead	799	3.8	0	0.0	102	1.1	397	3.4
Ruddy Duck	123	0.6	0	0.0	0	0.0	0	0.0
Total sport ducks	19 703	94.8	17 797	98.1	9 195	97.6	10 321	89.4
Oldsquaw	0	0.0	237	1.3	0	0.0	0	0.0
Common Scoter	1 075	5.2	0	0.0	227	2.4	0	0.0
Surf Scoter	0	0.0	100	0.6	0	0.0	1 228	10.6
Total sea ducks	1 075	5.2	337	1.9	227	2.4	1 228	10.6
Total ducks	20 778	97.7	18 134	89.0	9 422	89.3	11 549	92.1
Canada Goose	0	0.0	0	0.0	0	0.0	989	100.0
Small Canada Goose	496	100.0	320	14.3	0	0.0	0	0.0
Large Canada Goose	0	0.0	72	3.2	0	0.0	0	0.0
Snow Goose	0	0.0	1 647	73.7	1 125	100.0	0	0.0
White-fronted Goose	0	0.0	196	8.8	0	0.0	0	0.0
Total geese	496	2.3	2 235	11.0	1 125	10.7	989	7.9
Waterfowl	21 274	100.0	20 369	100.0	10 547	100.0	12 538	100.0

(cont'd)

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

Species	1977		1978		1979		1980	
	Kill	%	Kill	%	Kill	%	Kill	%
Common Merganser	0	0.0	29	1.0	0	0.0	0	0.0
Mallard	810	26.3	1 306	44.0	1 857	62.4	1 406	46.6
Gadwall	0	0.0	0	0.0	18	0.6	0	0.0
American Wigeon	318	10.3	272	9.2	317	10.6	106	3.5
Green-winged Teal	314	10.2	305	10.3	200	6.7	547	18.1
Blue-winged Teal	18	0.6	41	1.4	0	0.0	0	0.0
Shoveler	255	8.3	0	0.0	0	0.0	0	0.0
Pintail	354	11.5	225	7.6	188	6.3	139	4.6
Canvasback	51	1.7	0	0.0	0	0.0	0	0.0
Greater Scaup	72	2.3	87	2.9	0	0.0	0	0.0
Lesser Scaup	300	9.8	358	12.0	0	0.0	0	0.0
Ring-necked Duck	0	0.0	0	0.0	18	0.6	0	0.0
Goldeneye	18	0.6	98	3.3	280	9.4	819	27.1
Bufflehead	226	7.3	176	5.9	0	0.0	0	0.0
Ruddy Duck	0	0.0	74	2.5	0	0.0	0	0.0
Total sport ducks	2 736	88.9	2 971	100.0	2 878	96.6	3 017	100.0
Harlequin Duck	5	0.2	0	0.0	0	0.0	0	0.0
Common Scoter	0	0.0	0	0.0	100	3.4	0	0.0
White-winged Scoter	335	10.9	0	0.0	0	0.0	0	0.0
Total sea ducks	340	11.1	0	0.0	100	3.4	0	0.0
Total ducks	3 076	95.1	2 971	86.9	2 978	85.2	3 017	85.0
Canada Goose	27	17.1	0	0.0	0	0.0	521	97.7
Small Canada Goose	67	42.4	269	60.2	146	28.2	0	0.0
Large Canada Goose	62	39.2	61	13.6	226	43.6	12	2.3
White-fronted Goose	2	1.3	117	26.2	146	28.2	0	0.0
Total geese	158	4.9	447	13.1	518	14.8	533	15.0
Waterfowl	3 234	100.0	3 418	100.0	3 496	100.0	3 550	100.0