

AN ANALYSIS OF SOME ASPECTS OF THE
WATERFOWL SPECIES COMPOSITION SURVEY

- ATLANTIC PROVINCES -

1974-75 HUNTING SEASON



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DATA FILE

CANADIAN WILDLIFE SERVICE

An Analysis of Some Aspects of the
Waterfowl Species Composition Survey

- Atlantic Provinces -

1974-75 Hunting Season

Canadian Wildlife Service
Sackville, New Brunswick
January 25, 1975

CWS internal report - not for publication. Data in this report has been summarized from information taken only from envelopes received at Sackville in the Atlantic Provinces portion of the 1974-75 Species Composition Survey. It should be treated as preliminary and interpreted cautiously.

An Analysis of Some Aspects of the
Waterfowl Species Composition Survey
Atlantic Provinces, 1974-75 Hunting Season

This data summary presents preliminary information on species composition of the 1974-75 waterfowl kill in the Atlantic Provinces, illustrates data of timing of kills and documents hunter response to the survey. The data were derived from a reference card file compiled during the daily sort of survey envelopes as they arrived at the Sackville office. Undoubtedly, some species totals will vary slightly from those presented in the final report on the survey that will be prepared by Biometrics and published in the "Progress Notes" series. The data are presented in table form and are unadjusted in any way. The report should be treated as preliminary and interpreted cautiously.

Total Receipts

Table 1 presents summary data on the total waterfowl parts received over the eight year history of the survey in the Atlantic Provinces. As of January 25, 1975, 4,394 waterfowl parts were received from the Atlantic Provinces sample. An additional 30-50 envelopes will likely be received over the next month. Receipts for 1974-75 were down significantly over those for the past three years. That is likely attributed to an unfavourable weather condition during the hunting season coupled with a relatively poor production year during 1974 - assuming no change in sampling rate and/or no sampling error.

Species Composition

Table 2 summarizes the receipts by species for each province and illustrates species composition in per cent. The per cent values in Table 2 illustrate the relative importance of each species to the total waterfowl receipts for each province. It is not separated out into sport ducks, sea ducks, geese, etc. as will be done in the Progress Note. The black duck accounted for 37% of the overall waterfowl kill in the Atlantic Provinces, down only slightly from the usual 40%. Following black duck in decreasing order of importance were American green-winged teal (21.2%), Canada geese (7.6%), common goldeneye (5.4%), blue-winged teal (4.6%), and ring-necked duck (4.3%). The remaining twenty species in the kill together accounted for approximately 20% of the waterfowl harvest.

Weekly Receipts and Envelopes Sent

Table 3 summarizes the total waterfowl parts received and the number of envelopes sent out on a weekly basis. The number of requests for additional envelopes was down significantly to 1,460 from 2,360 in 1973-74. According to past records, a maximum number of 2,500 spare envelopes are required to fill all requests for additional envelopes.

Opening Day Kill

Table 4 presents the opening day kill percentages for waterfowl species harvested in the four Atlantic Provinces. That summary was compiled from the kill dates as indicated on the envelopes. The summaries and percentages illustrating opening day kill are totals for all major opening dates for the respective provinces. New Brunswick,

as usual had an extremely high opening day kill of 37.5%, however, down somewhat from 40.4% last year and 43% in 1972. Opening day kill was also down in Nova Scotia and Prince Edward Island from the indicated kill in the past two years as Nova Scotia's opening day kill was 19% (23.2% - 1973, 23.5% - 1972) and Prince Edward Island's kill was 23.3% (30.5% - 1973, 28.0% - 1972). Approximately 39% of New Brunswick's black duck kill was on opening day while Nova Scotia's opening day kill was only 6.6%. Prince Edward Island normally has a high opening day kill of blacks and accounted for 23.6% of the overall black duck harvest (unadjusted). The per cent of the green-winged teal kill taken on opening day is high for the three Maritime Provinces (N.B. - 48.4%, N.S. - 41.1%, P.E.I. - 40.2%).

Waterfowl Kill by Week

Tables 5, 6, 7, and 8 respectively illustrate a breakdown of the waterfowl kill by week for the provinces of Newfoundland, Prince Edward Island, New Brunswick and Nova Scotia. The Newfoundland sample was again disappointingly small, however of the envelopes submitted, approximately 65% of the waterfowl were killed during the month of September. Receipts from Prince Edward Island and New Brunswick again indicate an extremely high opening week kill (P.E.I. - 44.3%, N.B. - 57.8%). In both provinces the kill during October represents the bulk of the waterfowl harvested during the entire waterfowl hunting season (N.B. - 80.6%, P.E.I. - 71.8%). Nova Scotia kills are, as usual, fairly well distributed throughout the season, with an initial high of 20.2% on opening week of Zone 1 (northern) and a second peak on opening week of Zone 2 (30.8%). Total Nova Scotia waterfowl receipts for the

period mid-November to the end of the season (primarily from the second open season in Zone 2) accounted for 27.2%.

Hunter Response to the Survey

Tables 9, 10, and 11 summarize hunter response to the survey. The number of hunters submitting envelopes was down in Newfoundland but at normal levels for the other three provinces. The decline in Newfoundland is surprising in view of the fact that a special attempt was made to increase response in that province by having a portion of the envelopes returned to the Canadian Wildlife Service office in St. John's. A total of 95 Newfoundland hunters participated in the survey and 43 (45%) of those returned envelopes to the St. John's office.

A total of 908 hunters in the Atlantic Provinces participated in the survey, that number being down slightly from the past two years (1973 - 951, 1972 - 972). Of the total number of participating hunters, 28.8% submitted only one envelope and, as usual, nearly 70% submitted five or less envelopes. Hunters submitting 10 or less envelopes accounted for 68% of the envelopes received. Those data (refer to Table 10) seem to indicate an exceptionally high early season response to the survey by participating hunters. That may reflect in part a degree of hunter co-operation whereby they are initially keen to submit one to five envelopes (opening day kill?) and then loose interest in co-operating any further in the survey. Adjustments would then appear necessary to correct the kill data. Such adjustments will be made to the data presented in the Progress Notes.

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Table 1. Total waterfowl parts received - Atlantic Provinces Species Composition Surveys 1967 to 1975

Species	1967-68	1968-69	1969-70	1970-71	1971-72	1972-73	1973-74	1974-75
Canada goose	128	157	143	174	478	448	256	334
White-fr. goose	-	-	1	-	-	-	-	-
Snow goose	-	-	-	-	11	-	3	-
Mallard	20	28	28	47	63	54	68	52
Black duck	1182	757	631	1402	2475	2064	1994	1627
Gadwall	-	-	-	-	-	-	3	4
Pintail	53	43	32	122	108	59	91	95
Am. green-w. teal	715	654	412	1040	1380	982	863	932
Blue-w. teal	237	175	180	432	211	434	392	204
Am. wigeon	22	16	7	35	25	52	50	45
Shoveler	1	-	1	-	4	2	2	2
Wood duck	43	33	12	74	79	66	73	39
Redhead	-	-	-	-	-	-	2	4
Ring-n. duck	188	99	25	167	157	178	190	189
Greater scaup	20	11	11	38	43	12	101	48
Lesser scaup	21	18	5	24	29	17	47	70
Com. goldeneye	248	111	53	236	356	268	259	237
Barr. goldeneye	2	2	=	1	13	14	1	4
Bufflehead	16	13	12	23	54	29	61	55
Oldsquaw	38	57	13	135	61	79	58	24
Com. eider	143	21	53	17	123	117	124	98
White-w. Scoter	41	15	19	21	58	34	50	24
Surf scoter	73	32	19	122	128	48	92	94
Common scoter	82	23	18	65	81	32	46	46
Ruddy duck	3	-	-	-	8	-	5	2
Hood. merganser	14	12	6	9	10	12	11	10
Com. merganser	46	18	44	55	54	54	39	73
Red-b. merganser	127	32	27	75	69	74	74	60
Misc. & unknown	3	28	14	110	25	46	63	22
Other	-	-	801	-	-	-	-	-
Totals	3466	2355	2567	4424	6103	5175	5018	4394

Table 2. Species composition by province (all species) - illustrated in per cent - 1974-75

Species	New Brunswick		Nova Scotia		P.E.I.		Newfoundland		Unk.	Total	
	Number	Per cent	Number	Per cent	Number	Per cent	Number	Per cent		Number	Per cent
Canada goose	64	3.8	72	4.1	161	27.0	37	10.1	-	334	7.6 ✓
Mallard	37	2.2	11	0.6	4	0.7	-	-	-	52	1.2
Black duck	582	34.9	736	42.2	212	35.6	80	21.8	17	627	37.0 ✓
Gadwall	1	tr	1	tr	2	tr	-	-	-	4	tr
Pintail	37	2.2	26	1.5	21	3.5	11	3.0	-	95	2.2
Am.-g-w. teal	345	20.7	367	21.0	132	22.1	87	23.8	1	932	21.2 ✓
Blue-w. teal	139	8.3	42	2.4	16	2.7	3	0.8	4	204	4.6 ○
Am. wigeon	28	1.7	11	0.6	5	0.8	-	-	1	45	1.0
Shoveler	1	tr	1	tr	-	-	-	-	-	2	tr
Wood duck	34	2.0	5	tr	-	-	-	-	-	39	0.9
Redhead	4	tr	-	-	-	-	-	-	-	4	tr
Ring-n. duck	129	7.7	42	2.4	2	0.3	16	4.4	-	189	4.3
Greater scaup	13	0.8	25	1.4	1	tr	9	2.4	-	48	1.1
Lesser scaup	32	1.9	13	0.7	4	0.7	21	5.7	-	70	1.6
Com. goldeneye	123	7.4	76	4.4	1	tr	37	10.1	-	237	5.4 ✓
Barrow's goldeneye	2	tr	-	-	-	-	2	0.5	-	4	tr
Bufflehead	13	0.8	40	2.3	2	tr	-	-	-	55	1.2
Oldsquaw	4	tr	16	0.9	3	0.5	1	tr	-	24	0.5
Com. eider	24	1.4	67	3.8	3	0.5	4	1.1	-	98	2.2
White-w. scoter	2	tr	19	1.1	3	0.5	-	-	-	24	0.5
Surf scoter	13	0.8	74	4.2	2	tr	5	1.4	-	94	2.1
Com. scoter	2	tr	31	1.8	-	-	13	3.6	-	46	1.0
Ruddy duck	-	-	2	tr	-	-	-	-	-	2	tr
Hood. merganser	9	0.5	1	tr	-	-	-	-	-	10	tr
Com. merganser	15	0.9	34	2.0	6	1.0	18	4.9	-	73	1.7
Red-b. merganser	7	0.4	25	1.4	14	2.3	14	3.8	-	60	1.4
Misc. & unknown	6	0.4	6	tr	2	tr	8	2.2	-	22	0.5
Totals	1666		1743		596		366		23	4394	

Table 3. Total waterfowl parts received and envelopes sent per week, Atlantic Provinces - 1974-75

Week ending	New Brunswick		Nova Scotia		Prince Edward Id.		Newfoundland		Prov. unknown	Total	
	Parts rec'd	Envelopes sent	Parts rec'd	Envelopes sent	Parts rec'd	Envelopes sent	Parts rec'd	Envelopes sent	Parts rec'd	Parts rec'd	Envelopes sent
Sept. 7	-	-	-	-	-	-	5	-	-	5	-
14	-	-	-	-	-	-	75	20	-	75	20
21	-	-	-	-	-	-	68	20	-	68	20
28	-	-	-	20	-	-	50	-	-	50	20
Oct. 5	332	70	122	60	-	20	46	10	3	503	160
12	611	170	242	30	180	60	21	20	19	1073	280
19	210	30	331	70	105	50	25	10	-	671	160
26	103	50	285	120	66	30	15	-	-	474	200
Nov. 2	97	70	165	60	107	40	9	-	1	379	170
9	84	10	44	50	44	10	1	-	-	173	70
16	80	70	43	50	40	10	6	-	-	169	130
23	47	50	63	10	5	10	6	-	-	121	70
30	25	-	43	20	18	-	1	-	-	87	20
Dec. 7	12	-	65	20	18	-	14	-	-	109	20
14	12	-	61	-	5	-	8	-	-	86	-
21	12	-	36	90	2	-	10	-	-	60	90
28	16	-	111	-	2	-	1	-	-	130	-
Jan. 4	6	-	28	10	4	-	-	-	-	38	10
11	9	-	44	20	-	-	1	-	-	54	20
18	5	-	21	-	-	-	2	-	-	28	-
25	-	-	39	-	-	-	-	-	-	39	-
Unknown	-	-	-	-	-	-	2	-	-	2	-
Totals	1666	520	1743	630	596	230	366	80	23	4394	1460

(1) New Brunswick - Zone 1 - October 27
Zone 2 - October 1
Zone 3 - October 1

(2) Nova Scotia - Area 1 - October 1 (Additional sea ducks Dec. 21)
Area 2 - October 14 (Additional sea ducks Nov. 1)
November 15

(3) Prince Edward Island - October 7

(4) Newfoundland - Northern Labrador - September 2
Southern Labrador - September 2 (Sea ducks - Sept. 16 and
Jan. 23)
Northern coastal - September 9 (Sea ducks - Nov. 11)
Southern coastal - September 9 (Sea ducks - Dec. 2)
Avalon coastal - September 23 (Sea ducks - Dec. 2)
Avalon inland - September 23
Inland Region - September 9

Table 4. Per cent of total kill taken on opening day (by species) - Atlantic Provinces - 1974-75

Species	New Brunswick kill			Nova Scotia kill			P.E.I. kill			Newfoundland kill		
	Total	Opening day(1)	Per cent	Total	Opening day(2)	Per cent	Total	Opening day(3)	Per cent	Total	Opening day(4)	Per cent
Canada goose	64	1	1.6	72	3	4.2	161	15	9.3	37	3	8.1
Mallard	37	17	45.9	11	2	18.2	4	1	25.0	-		
Black duck	582	225	38.7	736	49	6.6	212	50	23.6	80	11	13.8
Gadwall	1	-		1	-		2	1	50.0	-		
Pintail	37	17	45.9	26	10	38.5	21	3	14.3	11	6	54.5
Am.green-w. teal	345	167	48.4	367	151	41.1	132	53	40.2	87	16	18.4
Blue-w. teal	139	99	71.2	42	21	50.0	16	9	56.2	3	2	66.7
Am. wigeon	28	15	53.6	11	2	18.2	5	2	40.0	-		
Shoveler	1	-		1	-		-			-		
Wood duck	34	24	70.6	5	1	20.0	-			-		
Redhead	4	4	100.0	-			-			-		
Ring-n. Duck	129	47	36.4	42	21	50.0	2	1	50.0	16	2	12.5
Greater scaup	13	1	7.7	25	-		1	-		9	2	22.2
Lesser scaup	32	1	3.1	13	2	15.4	4	3	75.0	21	-	
Com. goldeneye	123	2	1.6	76	2	2.6	1	1	100.0	37	3	8.1
Barrow's goldeneye	2	-		-			-			2	-	
Bufflehead	13	1	7.7	40	5	12.5	2	-		-		
Oldsquaw	4	-		16	-		3	-		1	-	
Com. eider	24	1	4.2	67	13	19.4	3	-		4	-	
White-w. scoter	2	-		19	8	42.1	3	-		-		
Surf scoter	13	3	23.1	74	31	41.9	2	-		5	-	
Common scoter	2	-		31	5	16.1	-			13	-	
Ruddy duck	-			2	-		-			-		
Hooded merganser	9	-		1	-		-			-		
Common merganser	15	-		34	4	11.8	6	-		18	2	11.1
Red-b. merganser	7	-		25	2	8.0	14	-		14	1	7.1
Misc. & unknown	6	-		6	-		2	-		8	2	25.0
Total	1666	625	37.5	1743	332	19.0	596	139	23.3	366	50	13.7

Table 5. Waterfowl kill by week - Province of Newfoundland - 1974-75 Wing Survey Data

Species	Week ending on																Unk.	Total				
	September				October				November					December					January			
	7	14	21	28	5	12	19	26	2	9	16	23	30	7	14	21			28	4	11	
Canada goose	5	10	8	5	2	3	-	-	4	-	-	-	-	-	-	-	-	-	-	-	37	
Black duck	15	31	8	12	-	-	1	2	-	-	7	1	1	1	-	-	-	-	-	-	1	80
Pintail	6	3	1	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	11
Am. green-w. teal	22	22	7	11	8	5	6	-	-	-	-	-	-	-	-	-	-	-	-	-	6	87
Blue-w. teal	1	1	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	3
Ring-n. duck	-	10	3	2	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	16
Greater scaup	3	1	-	1	-	-	-	-	-	-	-	3	-	1	-	-	-	-	-	-	-	9
Lesser scaup	1	4	-	-	8	1	-	1	-	-	-	4	-	-	-	-	-	-	-	-	-	21
Com. goldeneye	5	9	5	7	4	-	1	-	-	3	-	1	-	-	1	-	-	-	1	-	-	37
Barrow's goldeneye	1	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2
Oldsquaw	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1
Common eider	-	-	1	-	1	-	-	-	-	-	-	-	-	1	-	1	-	-	-	-	-	4
Surf scoter	1	1	1	1	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5
Common scoter	5	2	1	3	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	13
Common merganser	3	3	-	5	2	-	2	-	-	-	-	-	1	-	-	-	-	-	-	-	2	18
Red-b. merganser	2	-	1	1	-	2	1	-	-	2	1	-	-	1	-	-	-	-	-	-	3	14
Misc. & unknown	2	-	-	-	1	-	-	-	-	3	-	1	-	-	-	-	-	-	-	-	1	8
Totals	72	78	37	50	28	13	12	3	4	8	8	11	2	4	1	1	-	-	1	13	366	

65%

Table 6. Waterfowl kill by week - Province of Prince Edward Island - 1974-75 Wing Survey Data

Species	Week ending on									Unk.	Total
	October			November				December			
	12	19	26	2	9	16	23	30	7		
Canada goose	34	27	34	34	8	5	7	6	1	5	161
Mallard	2	2	-	-	-	-	-	-	-	-	4
Black duck	111	24	20	16	10	10	4	8	4	5	212
Gadwall	2	-	-	-	-	-	-	-	-	-	2
Pintail	8	9	2	1	1	-	-	-	-	-	21
Am. green-w. teal	81	18	18	3	5	4	-	-	-	3	132
Blue-winged teal	14	-	1	-	-	-	-	-	-	1	16
American wigeon	3	-	-	2	-	-	-	-	-	-	5
Ring-n. duck	2	-	-	-	-	-	-	-	-	-	2
Greater scaup	-	-	-	-	-	1	-	-	-	-	1
Lesser scaup	4	-	-	-	-	-	-	-	-	-	4
Common goldeneye	1	-	-	-	-	-	-	-	-	-	1
Bufflehead	-	1	-	1	-	-	-	-	-	-	2
Oldsquaw	-	-	-	-	-	-	-	1	2	-	3
Common eider	-	-	2	-	-	-	-	-	-	1	3
White-w. scoter	-	2	-	-	-	1	-	-	-	-	3
Surf scoter	1	-	-	-	-	-	-	1	-	-	2
Common merganser	-	-	1	3	-	-	-	1	-	1	6
Red-b. merganser	-	-	3	9	1	-	-	1	-	-	14
Misc. & unknown	1	-	-	-	-	1	-	-	-	-	2
Totals	264	83	81	69	25	22	11	17	8	16	596

44.3%

71.8%

Table 7. Waterfowl kill by week - Province of New Brunswick - 1974-75 Wing Survey Data

Species	Week ending on														Unk.	Total
	October				November					December				January		
	5	12	19	26	2	9	16	23	30	7	14	21	28	4		
Canada goose	1	1	10	17	14	9	2	4	2	-	-	-	-	-	4	64
Mallard	21	6	5	2	-	-	-	1	1	-	-	-	-	-	1	37
Black duck	352	70	48	22	10	6	17	9	4	1	-	1	7	2	33	582
Gadwall	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	1
Pintail	28	3	-	1	1	-	-	-	-	-	1	-	-	-	3	37
Am. g-w. teal	263	27	28	10	1	6	-	2	-	-	-	1	1	-	6	345
Blue-w. teal	123	9	4	-	-	-	-	-	-	-	-	-	-	-	3	139
Am. wigeon	23	4	1	-	-	-	-	-	-	-	-	-	-	-	-	28
Shoveler	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	1
Wood duck	32	-	-	1	-	-	-	-	-	-	-	-	-	-	1	34
Redhead	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4
Ring-necked duck	91	11	18	1	2	-	-	-	-	-	-	-	-	-	6	129
Greater scaup	2	2	-	2	-	7	-	-	-	-	-	-	-	-	-	13
Lesser scaup	8	10	3	1	2	1	3	1	-	-	-	-	-	-	3	32
Com. goldeneye	7	5	17	16	21	27	30	5	2	-	-	-	1	1	1	123
Barrow's goldeneye	-	-	-	1	1	-	-	-	-	-	-	-	-	-	-	2
Bufflehead	1	-	1	2	3	2	-	-	1	3	-	-	-	-	-	13
Oldsquaw	-	-	-	1	2	-	1	-	-	-	-	-	-	-	-	4
Common eider	-	1	7	1	1	6	-	-	-	1	-	-	-	6	1	24
White-w. scoter	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	2
Surf scoter	3	1	3	5	-	-	1	-	-	-	-	-	-	-	-	13
Common scoter	-	-	-	-	1	-	-	-	-	-	-	-	-	-	1	2
Hooded merganser	4	1	-	4	-	-	-	-	-	-	-	-	-	-	-	9
Common merganser	1	-	3	3	5	-	1	2	-	-	-	-	-	-	-	15
Red-b. merganser	-	-	3	1	1	-	-	-	-	1	-	-	-	-	1	7
Misc. & unknown	-	2	2	-	-	-	-	-	-	-	-	-	-	-	2	6
Totals	964	156	132	92	66	64	45	24	10	6	1	2	9	9	66	1666

↑
57.8%

80.6%

12.5%

Table 8. Waterfowl kill by week - Province of Nova Scotia - 1974-75 Wing Survey Data

Species	Week ending on																Unk.	Total
	October				November					December				January				
	5	12	19	26	2	9	16	23	30	7	14	21	28	4	11	18		
Canada goose	4	4	14	8	3	-	6	13	5	3	6	4	-	1	-	-	1	72
Mallard	2	2	3	1	-	-	-	-	-	2	-	1	-	-	-	-	-	11
Black duck	165	53	215	68	32	7	18	26	17	35	15	20	18	12	14	13	8	736
Gadwall	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	1
Pintail	10	3	7	1	1	-	2	-	-	1	1	-	-	-	-	-	-	26
Am. g-w. teal	106	29	160	34	10	1	4	6	-	2	-	-	-	-	-	-	15	367
Blue-w. teal	27	3	10	2	-	-	-	-	-	-	-	-	-	-	-	-	-	42
Am. wigeon	4	-	2	5	-	-	-	-	-	-	-	-	-	-	-	-	-	11
Shoveler	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	1
Wood duck	1	-	2	-	1	-	-	-	-	1	-	-	-	-	-	-	-	5
Ring-n. duck	23	2	15	2	-	-	-	-	-	-	-	-	-	-	-	-	-	42
Greater scaup	-	1	2	4	2	-	1	1	9	1	-	1	-	2	-	-	1	25
Lesser scaup	-	-	3	3	1	-	1	2	-	-	-	1	-	-	2	-	-	13
Com. goldeneye	-	1	4	2	-	-	4	1	2	7	7	-	14	12	14	8	-	76
Bufflehead	-	-	1	5	6	-	10	4	2	2	5	1	-	2	2	-	-	40
Oldsquaw	-	-	1	1	1	-	-	2	-	2	1	1	6	1	-	-	-	16
Common eider	1	2	23	12	-	7	-	1	3	12	1	2	2	1	-	-	-	67
White-w. scoter	-	-	10	3	1	-	-	1	-	-	-	1	3	-	-	-	-	19
Surf scoter	4	4	40	15	6	2	3	-	-	-	-	-	-	-	-	-	-	74
Common scoter	-	-	15	4	4	4	-	2	-	1	1	-	-	-	-	-	-	31
Ruddy duck	-	-	-	1	1	-	-	-	-	-	-	-	-	-	-	-	-	2
Hooded merganser	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1
Common merganser	3	1	6	2	2	1	3	5	-	5	-	1	-	1	4	-	-	34
Red-b. merganser	1	1	3	4	-	-	2	1	1	-	-	2	2	4	-	4	-	25
Misc. & unknown	2	1	-	1	-	-	-	-	1	1	-	-	-	-	-	-	-	6
Totals	353	107	537	178	71	22	54	66	40	75	37	34	46	36	36	26	25	1743
	↑		↑															
	20.2%		30.8%															27.2%

Table 9. Hunter response to the Atlantic Provinces Waterfowl Parts Collection Survey 1970-71 to 1974-75

No. of envelopes received	Number of hunters submitting																			
	New Brunswick					Nova Scotia					Prince Edward Island					Newfoundland				
	1970	1971	1972	1973	1974	1970	1971	1972	1973	1974	1970	1971	1972	1973	1974	1970	1971	1972	1973	1974
1	66	87	76	69	82	46	89	72	97	111	20	30	26	33	32	57	29	51	64	37
2	36	65	55	33	41	37	49	51	54	61	13	19	21	21	16	46	14	25	29	8
3	32	45	46	36	46	19	36	42	48	35	6	18	16	11	12	21	6	24	16	17
4	23	53	34	30	31	16	28	32	42	30	8	19	18	10	7	15	5	13	10	6
5	31	35	30	24	17	13	28	25	24	27	7	16	8	1	8	10	1	12	3	5
6	24	23	29	24	30	12	17	18	28	26	6	12	11	6	10	11	2	3	3	7
7	22	22	11	16	15	10	15	12	16	18	7	9	4	1	4	8	2	2	2	2
8	11	20	16	13	11	8	15	14	15	11	4	15	7	4	1	5	1	2	1	-
9	17	17	13	10	12	2	13	8	14	11	3	4	5	4	4	4	-	1	2	2
10	23	28	17	19	17	19	26	17	18	14	9	12	2	4	2	3	3	5	2	5
11	7	6	8	10	6	1	4	6	1	7	1	4	3	3	2	1	-	-	1	2
12	1	3	6	3	4	3	4	8	8	3	1	2	5	-	2	1	-	-	1	-
13	3	4	5	3	4	4	7	2	1	4	2	-	2	2	1	1	-	-	-	1
14	2	1	2	4	1	5	4	2	2	2	1	2	1	-	2	-	-	1	-	-
15	2	3	2	2	1	-	3	1	4	1	-	-	1	-	1	-	-	1	1	1
16	4	1	2	2	1	1	1	3	-	-	2	2	1	1	1	1	-	1	-	1
17	3	3	1	3	-	-	4	1	2	2	1	1	-	2	-	-	-	1	-	-
18	-	1	-	-	5	-	3	5	-	-	3	1	1	-	-	-	-	-	-	1
19	3	2	2	-	1	-	-	1	1	-	3	2	-	-	-	-	-	-	2	-
20	2	4	1	4	3	1	6	1	2	3	2	-	-	1	1	1	-	1	-	-
21-30	4	6	4	7	3	2	13	3	11	3	1	2	3	3	3	-	-	-	1	-
31-40	1	1	1	1	-	3	4	3	2	-	-	2	1	1	2	-	-	-	-	-
41-50	4	1	-	-	-	-	1	1	2	-	-	-	1	-	-	-	-	-	-	-
51-60	-	2	1	-	-	-	-	1	1	-	-	1	1	-	-	-	-	-	-	-
61-70	-	-	-	-	-	-	1	-	-	1	-	-	-	-	-	-	-	-	-	-
70+	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-
Total hunter participation	320	433	362	313	331	209	371	329	393	371	99	173	138	107	111	185	63	143	138	95

Table 10. Summary of hunter response - Atlantic Provinces - 1974-75

Number of envelopes received	Number of hunters submitting	Per cent of total response	Total envelopes received	Per cent of total envelopes
1	262	28.85	262	6.02
2	126	13.88	252	5.79
3	110	12.11	330	7.59
4	74	8.15	296	6.80
5	57	6.28	285	6.55
		69.27		32.75
6	73	8.04	438	10.07
7	39	4.30	273	6.28
8	23	2.53	184	4.23
9	29	3.19	261	6.00
10	38	4.18	380	8.74
		22.22		35.32
11	17	1.87	187	4.30
12	9	0.99	108	2.48
13	10	1.10	130	2.99
14	5	0.55	70	1.61
15	4	0.44	60	1.38
		4.95		12.76
16	3	0.33	48	1.10
17	2	0.22	34	0.78
18	1	0.11	18	0.41
19	5	0.55	95	2.18
20	5	0.55	100	2.30
		1.76		6.77
21-30	9	0.99	214	4.92
31-40	5	0.55	173	3.98
41-50	-			
51-60	-			
61-70	1	0.11	70	1.61
70+	1	0.11	82	1.89
		1.76		12.40
Total	908		4350	
Envelopes from unknown hunters			44	
Total envelopes received			4394	

Table 11. Envelopes received at St. John's, Newfoundland Office -
1974-75

Number of envelopes	Number of hunters	Total number of envelopes
1	16	16
2	5	10
3	5	15
4	2	8
5	3	15
6	6	36
7	-	-
8	-	-
9	1	9
10	2	20
11	1	11
12	1	12
13	-	-
14	-	-
15	-	-
16	1	16
Totals	43	168