

PROGRESS NOTES NO. 4 May 10, 1968

Progress Notes contain *interim* data and conclusions and are presented as a service to other wildlife biologists and agencies. The notes will appear in summary volumes from time to time.

REPORT ON SALES OF THE CANADA MIGRATORY GAME BIRD HUNTING PERMIT 1967-68

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Canada migratory game bird hunting permits are sold by post offices across Canada on behalf of the Canadian Wildlife Service. The following sales figures for the 1967 permit are derived from records received to the end of January 1968. Sales began in August 1967. We estimate the figures presented in this report are very close to 99 per cent complete and consider that they are adequate for most management purposes.

Progress Note No. 2, May 31, 1967, reported that about 380,000 permits were sold in 1966-67. Final Post Office accounting brought this total to nearly 385,000. The number of sales records for 1967-68 received thus far by the Canadian Wildlife Service is about 383,000.

Table 1(a) presents data on the 365,557 resident Canadian hunters by province. Sub-totals are included for the 15,070 hunters who were non-residents of Canada and who represent about 4 per cent of permit purchasers. Table 1(b) shows the origin of non-resident hunters. Most came from Minnesota (3,512), Michigan (3,022), Wisconsin (1,308), New York (1,158), and Illinois (1,144).

Table 2 presents a breakdown of permit sales by survey substrata. Substrata employed in 1967-68 are defined in detail in the appendix and are illustrated on maps 1 and 2.

Table 3 presents a breakdown by age of the purchasers.

The substrata are based on hunting season zones and are subject to change from year to year. A technique for analysing data by any convenient substrata within the provinces is being developed. It has been applied to permit sales for the first time this year. It will be applied to the waterfowl harvest survey and the species composition survey next year.

One of the more interesting findings arising from a study of sales records is the unexpectedly large annual replacement of hunters. The 383,032 sales records received in 1967-68 can be broken down as follows: 261,387 from purchasers who bought a permit in 1966-67,

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110,330 from purchasers who did not buy a permit in 1966-67, and 11,315 for whom information was not reported. The figures suggest about 70 per cent of our waterfowl hunters hunt annually, while 30 per cent hunt intermittently.

Taking sales records for the two years combined, at least 500,000 persons hunted migratory game birds in Canada either in 1966-67 or 1967-68, or both.

Previous information on the Canada migratory game bird hunting permit and related surveys: Progress Note No. 2 (May 1967).

Table 1A Permit sales by province of residence and province of purchase - 1967-68 hunting season

Province or State of Residence	Nfld.	P.E.I.	N.S.	N.B.	Que.	Ont.	Man.	Sask.	Alta.	B.C.	Province Unknown	Total
Newfoundland	14,718		6	3	5	9	6	3	11	12	42	14,815
Prince Edward Island	1	3,047	2		3	1	1		3	1	16	3,075
Nova Scotia	6	6	7,742	3	14	4	4	5	3		33	7,820
New Brunswick	3	4	4	7,395	7	5	4	5	1		28	7,456
Quebec	3	4	6	7	31,567	88	16	23	39	3	74	31,830
Ontario	8	7	8	13	124	137,282	167	167	180	15	396	138,367
Manitoba	4	1			2	51	33,425	204	84	2	70	33,843
Saskatchewan			1	2	17	11	66	40,074	97	4	112	40,384
Alberta	3		2	2	8	77	91	700	53,431	29	144	54,487
British Columbia	30				2	19	42	235	771	32,285	96	33,480
Canadian Resident Total	14,776	3,069	7,771	7,425	31,749	137,547	33,822	41,416	54,620	32,351	1,011	365,557
Non-Resident Total	40	15	54	251	542	8,022	1,591	3,006	926	576	47	15,070
Residence Unknown	47	10	58	63	200	924	207	229	346	268	53	2,405
TOTAL	14,863	3,094	7,883	7,739	32,491	146,493	35,620	44,651	55,892	33,195	1,111	383,032

Table 1B Permit sales by place of residence and province of purchase - 1967-68 hunting season

Province or State of Residence	Nfld.	P.E.I.	N.S.	N.B.	Que.	Ont.	Man.	Sask.	Alta.	B.C.	Province Unknown	Total
Alaska						2			29	3		34
Alabama	1					6	1	1	2			11
Arkansas	1					3	1	2	4	2		13
Arizona						2	1		6	2		11
California	1				6	26	15	48	59	126	1	282
Colorado					3	13	4	32	18		1	71
Connecticut	1	2	7	36	13	33	1	1	2		1	97
Canal Zone								1		2		3
District Columbia			1	1		5	2		1			10
Delaware							1					1
Florida				3	9	43	3	15	7		1	81
Georgia	3				2	16	3		2			26
Hawaii						1		1	1	1		4
Iowa						173	47	185	10	4	1	420
Idaho						7		8	29	11		55
Illinois	1			2	5	803	170	144	15	2	2	1,144
Indiana				1	1	257	62	60				381
Kansas						27	10	27	2	2		68
Kentucky	1				3	25	5	13				47
Louisiana				2		6	2	2	4			16
Massachusetts	1	5	7	63	29	32	1	2	2	1		143
Maryland	1			9	1	15		2		3	1	32
Maine		2		29	44	1						76
Michigan	3			1	16	2,698	90	183	15	7	9	3,022
Minnesota					10	1,231	767	1,353	138	5	8	3,512
Missouri				1	2	100	10	44	11			168
Mississippi			2	1	4	9	1	3	1			21
Montana					1	1	1	102	176	7		288
Nebraska			2	1		28	12	25	10	2		80

Table 1B continued Permit sales by place of residence and province of purchase - 1967-68 hunting season

Province or State of Residence	Nfld.	P.E.I.	N.S.	N.B.	Que.	Ont.	Man.	Sask.	Alta.	B.C.	Province Unknown	Total
North Carolina					5	21			1			27
North Dakota					2	24	9	124	9			168
New Hampshire		1	2	5	7	1						16
New Jersey			4	34	11	56	2	3	2	3		115
New Mexico					4				2			6
Nevada				1	1	1		1	4	4		12
New York	3	3	18	26	220	823	12	40	11	1	1	1,158
Ohio	1	2	4	4	47	561	48	50	6		5	728
Oklahoma	1					10	6	4	5			26
Oregon						1		5	15	75	1	97
Pennsylvania	5		4	29	26	298	2	8	8	7	5	392
Rhode Island			1	2	4	6						13
St. Pierre and Miquelon	3											3
South Carolina	1					11	2	1		4		19
South Dakota						14	17	34	4			69
Tennessee	1					8	5	2	2			18
Texas	4				1	19	3	5	14			46
Utah					2		3	1	2	3		11
Virginia	1		1		7	18	1	8				36
Vermont	3		1		54	5						63
Washington	1				1	6	3	17	257	295	2	582
Wisconsin	1				1	564	266	427	38	4	7	1,308
West Virginia	1					11		1			1	14
Wyoming						1	2	21	2			26
NON-RESIDENT TOTAL	40	15	54	251	542	8,022	1,591	3,006	926	576	47	15,070

Table 2 Permit sales by substratum - 1967-68

Province (stratum)		Substratum *			Total	
		1	2	3		
Newfoundland	(01)	13,099	1,406		358	14,863
Prince Edward Island	(02)	2,981			113	3,094
Nova Scotia	(03)	5,731	2,074		78	7,883
New Brunswick	(04)	5,718	1,902		119	7,739
Quebec	(05)	27,772	4,398		321	32,491
Ontario	(06)	47,091	74,830	23,631	941	146,493
Manitoba	(07)	32,376	2,990		254	35,620
Saskatchewan	(08)	41,898	2,367		386	44,651
Alberta	(09)	25,659	29,011		1,222	55,892
British Columbia	(10)	11,200	21,207		788	33,195
Unknown					1,111	1,111
TOTAL		213,525	140,185	23,631	5,691	383,032

* A substratum consists of one or more of the hunting season zones as described in the Migratory Birds Regulations for the year. See Appendix 1 for maps and descriptions.

Table 3 Permit sales by age of purchaser and province of purchase - 1967-68 hunting season

Age	Nfld.	P.E.I.	N.S.	N.B.	Que.	Ont.	Man.	Sask.	Alta.	B.C.	Unknown	Total
14	1	4	34	33	117	25	407	663	661	363	10	2,318
15	6	15	60	45	193	2,379	500	928	890	477	17	5,510
16	381	111	259	438	959	4,019	778	1,628	1,825	605	32	11,035
17	596	118	231	341	1,008	4,102	1,156	1,477	1,779	435	36	11,279
18	612	131	323	338	1,254	4,542	1,198	1,375	1,765	1,581	33	13,152
19	544	126	254	263	1,229	4,440	1,095	1,239	1,708	1,139	31	12,068
20	482	144	247	253	1,307	4,924	1,177	1,295	1,751	1,116	32	12,728
21	525	103	257	211	1,273	4,770	1,139	1,229	1,662	1,177	33	12,379
22	467	100	206	199	1,119	4,181	968	1,200	1,559	964	44	11,007
23	440	88	212	189	1,077	4,265	1,030	1,173	1,590	986	37	11,087
24	427	97	207	191	1,071	4,571	960	1,190	1,663	950	41	11,368
25	432	116	187	212	1,145	4,561	1,007	1,116	1,618	972	44	11,410
26	385	74	201	177	1,053	4,176	898	1,071	1,483	883	22	10,423
27	373	83	182	185	1,000	4,216	920	1,124	1,447	921	21	10,472
28	379	74	186	166	911	3,851	880	1,025	1,373	775	30	9,650
29	345	73	166	149	863	3,844	807	993	1,351	786	22	9,399
30	362	77	198	164	950	3,742	786	990	1,383	827	25	9,504
31	285	52	172	149	745	3,629	748	853	1,233	742	14	8,622
32	302	67	172	147	814	3,525	721	946	1,298	751	21	8,764
33	305	51	139	127	778	3,253	636	773	1,226	645	20	7,953
34	308	63	149	137	774	3,430	701	895	1,272	697	25	8,451
35	304	61	175	131	836	3,511	762	886	1,313	722	22	8,723
36	260	58	142	128	706	3,398	658	844	1,235	679	19	8,127
37	289	49	142	146	739	3,640	709	899	1,293	781	29	8,716
38	269	41	138	107	700	3,125	659	817	1,178	622	25	7,681
39	244	47	127	137	618	3,216	604	813	1,178	644	16	7,644
40	283	42	138	141	661	3,049	681	904	1,210	693	24	7,826

Table 3 Continued Permit sales by age of purchaser and province of purchase - 1967-68 hunting season

Age	Nfld.	P.E.I.	N.S.	N.B.	Que.	Ont.	Man.	Sask.	Alta.	B.C.	Unknown	Total
41	186	47	108	101	490	2,741	524	683	991	581	26	6,478
42	226	44	122	140	557	2,729	618	806	1,089	609	25	6,965
43	179	40	131	102	489	2,564	534	759	957	597	22	6,374
44	165	40	94	112	428	2,338	481	621	801	488	11	5,579
45	238	38	130	116	452	2,340	551	685	905	523	15	5,993
46	169	36	106	90	347	2,166	534	657	866	517	17	5,505
47	207	42	130	106	358	2,286	487	678	918	535	18	5,765
48	204	39	116	94	282	1,686	445	554	700	432	13	4,565
49	181	36	94	87	285	1,766	469	583	697	395	18	4,611
50	212	40	125	124	285	1,719	497	641	779	412	10	4,844
51	129	25	82	93	251	1,548	353	498	616	392	14	4,001
52	145	37	98	96	288	1,591	408	614	677	423	10	4,387
53	135	36	110	81	285	1,508	419	508	617	384	17	4,100
54	142	35	75	72	239	1,441	330	479	503	346	11	3,673
55	136	37	81	89	241	1,282	324	466	525	343	9	3,533
56	101	27	77	69	212	1,163	310	440	451	323	6	3,179
57	109	27	79	88	192	1,127	310	381	466	297	12	3,088
58	86	18	76	74	189	961	293	363	424	245	6	2,735
59	84	23	56	59	179	999	267	331	344	244	6	2,592
60	75	29	64	61	157	854	258	327	407	268	8	2,508
61	51	13	43	42	111	738	167	275	312	202	7	1,961
62	56	18	48	72	125	723	176	295	293	209	5	2,020
63	50	20	59	44	93	606	179	251	279	149	4	1,734
64	59	16	40	49	113	546	151	217	249	143	4	1,587
65 and over	437	134	368	372	575	3,311	1,194	1,634	1,641	929	33	10,628
Unknown	1,495	132	467	402	1,368	5,376	2,756	2,559	1,441	1,276	59	17,331
TOTAL	14,863	3,094	7,883	7,739	32,491	146,493	35,620	44,651	55,892	33,195	1,111	383,032

APPENDIX 1

SURVEY SUBSTRATA

Given below are the boundaries of 1967-68 substrata.

The boundaries are described by points of latitude and longitude which may be located on a map and joined to reproduce the substrata employed for analysis of permit sales.

Those boundaries which coincide with provincial boundaries are not redefined here.

NEWFOUNDLAND

(Province 01)

Substratum 01 - Island of Newfoundland

Substratum 02 - Labrador

PRINCE EDWARD ISLAND

(Province 02)

Substratum 01 - Entire Province

NOVA SCOTIA
(Province 03)

Boundary Between Substrata 01 and 02

<u>Latitude</u>	<u>Longitude</u>	<u>Latitude</u>	<u>Longitude</u>
46-21	60-13	45-23	62-17
46-21	60-21	45-21	62-17
46-17	60-21	45-21	62-30
46-17	60-24	45-19	62-30
46-15	60-24	45-19	62-46
46-15	60-26	45-13	62-46
46-14	60-26	45-13	62-54
46-14	60-28	45-12	62-54
46-12	60-28	45-12	62-57
46-12	60-30	45-10	62-57
46-08	60-30	45-10	63-02
46-08	60-31	45-07	63-02
46-06	60-31	45-07	63-11
46-06	60-34	45-05	63-11
46-05	60-34	45-05	63-16
46-05	60-36	45-03	63-16
46-04	60-36	45-03	63-25
46-04	60-42	44-57	63-25
46-02	60-42	44-57	63-39
46-02	60-45	44-55	63-39
46-00	60-45	44-55	63-46
46-00	60-48	44-50	63-46
45-50	60-48	44-50	63-51
45-50	60-55	44-45	63-51
45-47	60-55	44-45	64-20
45-47	61-02	44-52	64-20
45-44	61-02	44-52	64-32
45-44	61-07	44-48	64-32
45-42	61-07	44-48	64-41
45-42	61-11	44-41	64-41
45-41	61-11	44-41	64-50
45-41	61-18	44-34	64-50
45-37	61-18	44-34	64-59
45-37	61-20	44-27	64-59
45-35	61-20	44-27	65-11
45-35	61-23	44-26	65-11
45-38	61-23	44-26	65-12
45-38	61-33	44-19	65-12
45-37	61-33	44-19	65-25
45-37	61-35	44-26	65-25
45-35	61-35	44-26	65-34
45-35	61-38	44-33	65-34
45-33	61-38	44-33	65-37
45-33	61-44	44-36	65-37
45-30	61-44	44-36	65-41
45-30	61-47	44-39	65-41
45-27	61-47	44-39	65-45
45-27	61-52	44-40	65-45
45-24	61-52	44-40	65-46
45-24	62-07	44-42	65-46
45-23	62-07		

NEW BRUNSWICK
(Province 04)

Boundary Between Substrata 01 and 02

<u>Latitude</u>	<u>Longitude</u>	<u>Latitude</u>	<u>Longitude</u>
47-00	64-20	46-20	65-52
47-00	65-00	46-20	66-15
46-55	65-00	46-26	66-15
46-55	65-12	46-26	66-30
46-49	65-12	46-41	66-30
46-49	65-17	46-41	66-41
46-47	65-17	46-53	66-41
46-47	65-23	46-53	66-52
46-43	65-23	46-44	66-52
46-43	65-30	46-44	67-16
46-30	65-30	46-36	67-16
46-30	65-52	46-36	68-00

QUEBEC

(Province 05)

Boundary Between Substrata 01 and 02

<u>Latitude</u>	<u>Longitude</u>	<u>Latitude</u>	<u>Longitude</u>
51-15	57-07	47-37	70-06
51-15	57-50	47-24	70-06
50-25	57-50	47-24	70-17
50-25	59-30	47-16	70-17
50-00	59-30	47-16	70-30
50-00	61-30	47-04	70-30
49-00	61-30	47-04	70-41
49-00	63-00	46-58	70-41
49-10	63-00	46-58	70-51
49-10	64-00	46-54	70-51
49-35	64-00	46-54	70-54
49-35	67-00	46-53	70-54
49-15	67-00	46-53	70-58
49-15	68-02	46-50	70-58
48-55	68-02	46-50	71-07
48-55	68-34	46-49	71-07
48-45	68-34	46-49	71-13
48-45	68-55	46-47	71-13
48-23	68-55	46-47	71-14
48-23	69-10	46-43	71-14
48-13	69-10	46-43	71-17
48-13	69-30	46-45	71-17
48-02	69-30	46-45	71-19
48-02	69-40	46-46	71-19
47-47	69-40	46-46	71-23
47-47	69-53	46-45	71-23
47-37	69-53	46-45	71-27

QUEBEC (Continued)

<u>Latitude</u>	<u>Longitude</u>	<u>Latitude</u>	<u>Longitude</u>
46-49	71-27	47-54	74-41
46-49	71-34	47-58	74-41
46-52	71-34	47-58	74-53
46-52	71-32	48-06	74-53
46-55	71-32	48-06	75-10
46-55	71-36	48-08	75-10
46-58	71-36	48-08	75-15
46-58	71-40	48-06	75-15
47-03	71-40	48-06	75-30
47-03	71-48	48-09	75-30
47-09	71-48	48-09	75-40
47-09	71-58	48-11	75-40
47-15	71-58	48-11	75-50
47-15	72-05	48-13	75-50
47-22	72-05	48-13	76-05
47-22	72-12	48-16	76-05
47-17	72-12	48-16	76-08
47-17	72-20	48-14	76-08
47-13	72-20	48-14	76-20
47-13	72-16	48-12	76-20
47-10	72-16	48-12	76-30
47-10	72-20	48-15	76-30
47-06	72-20	48-15	76-36
47-06	72-26	48-12	76-36
47-02	72-26	48-12	76-45
47-02	72-29	48-19	76-45
47-00	72-29	48-19	77-10
47-00	72-32	48-22	77-10
46-58	72-32	48-22	77-17
46-58	72-35	48-25	77-17
47-03	72-35	48-25	77-41
47-03	72-38	48-29	77-41
47-06	72-38	48-29	77-55
47-06	72-36	48-34	77-55
47-11	72-36	48-34	78-00
47-11	72-44	48-33	78-00
47-25	72-44	48-33	78-11
47-25	72-49	48-36	78-11
47-37	72-49	48-36	78-23
47-37	73-00	48-37	78-23
47-42	73-00	48-37	78-30
47-42	73-05	48-39	78-30
47-39	73-05	48-39	78-34
47-39	73-16	48-38	78-34
47-44	73-16	48-38	78-44
47-44	73-23	48-41	78-44
47-51	73-23	48-41	78-50
47-51	73-32	48-44	78-50
47-54	73-32	48-44	79-03
47-54	73-40	48-45	79-03
47-51	73-40	48-45	79-11
47-51	74-07	48-50	79-11
47-54	74-07	48-50	79-17
47-54	74-12	48-48	79-17
47-51	74-12	48-48	79-26
47-51	74-33	48-53	79-26
47-54	74-33	48-53	79-31

ONTARIO
(Province 06)

Boundary Between Substrata 01 and 02

<u>Latitude</u>	<u>Longitude</u>	<u>Latitude</u>	<u>Longitude</u>
43-30	79-30	44-16	80-15
43-30	79-42	44-14	80-15
43-34	79-42	44-14	80-22
43-34	79-45	44-08	80-22
43-36	79-45	44-08	80-25
43-36	79-49	44-03	80-25
43-40	79-49	44-03	80-30
43-40	79-51	44-01	80-30
43-42	79-51	44-01	80-40
43-42	79-58	44-00	80-40
43-43	79-58	44-00	81-00
43-43	80-00	43-54	81-00
43-47	80-00	43-54	80-58
43-47	80-05	43-48	80-58
43-48	80-05	43-48	81-05
43-48	80-07	43-41	81-05
43-54	80-07	43-41	81-10
43-54	79-55	43-37	81-10
43-58	79-55	43-37	81-17
43-58	79-58	43-33	81-17
44-02	79-58	43-33	81-21
44-02	80-00	43-27	81-21
44-16	80-00	43-27	81-50

Boundary Between Substrata 02 and 03

<u>Latitude</u>	<u>Longitude</u>	<u>Latitude</u>	<u>Longitude</u>
46-18	78-41	46-28	80-49
46-18	79-25	46-31	80-49
46-17	79-25	46-31	80-55
46-17	79-31	46-27	80-55
46-22	79-31	46-27	81-07
46-22	79-50	46-25	81-07
46-24	79-50	46-25	81-15
46-24	80-05	46-22	81-15
46-23	80-05	46-22	81-20
46-23	80-10	46-20	81-20
46-28	80-10	46-20	81-30
46-28	80-20	46-19	81-30
46-26	80-20	46-19	81-50
46-26	80-30	46-15	81-50
46-28	80-30	46-15	82-10
46-28	80-35	46-11	82-10
46-32	80-35	46-11	82-40
46-32	80-45	46-08	82-40
46-28	80-45		

MANITOBA

(Province 07)

Boundary Between Substrata 01 and 02

<u>Latitude</u>	<u>Longitude</u>
53-00	94-50
53-00	101-40

SASKATCHEWAN

(Province 08)

Boundary Between Substrata 01 and 02

<u>Latitude</u>	<u>Longitude</u>	<u>Latitude</u>	<u>Longitude</u>
52-50	101-40	53-13	105-39
52-50	102-09	53-13	106-00
52-52	102-09	53-15	106-00
52-52	102-18	53-15	106-22
52-50	102-18	53-12	106-22
52-50	102-30	53-12	106-25
52-53	102-30	53-14	106-25
52-53	102-57	53-14	106-50
52-50	102-57	53-18	106-50
52-50	103-20	53-18	107-00
52-54	103-20	53-17	107-00
52-54	103-25	53-17	107-05
52-50	103-25	53-19	107-05
52-50	103-30	53-19	107-10
52-54	103-30	53-20	107-10
52-54	103-38	53-20	107-25
52-50	103-38	53-24	107-25
52-50	103-47	53-24	107-35
52-53	103-47	53-22	107-35
52-53	103-55	53-22	107-47
52-50	103-55	53-23	107-47
52-50	104-05	53-23	107-52
52-52	104-05	53-22	107-52
52-52	104-01	53-22	108-01
53-20	104-01	53-21	108-01
53-20	104-05	53-21	108-05
53-19	104-05	53-22	108-05
53-19	104-15	53-22	108-20
53-16	104-15	53-23	108-20
53-16	104-25	53-23	108-21
53-15	104-25	53-25	108-21
53-15	104-35	53-25	108-56
53-13	104-35	53-27	108-56
53-13	104-48	53-27	109-04
53-10	104-48	53-33	109-04
53-10	104-55	53-33	109-15
53-15	104-55	53-30	109-15
53-15	105-07	53-30	109-25
53-16	105-07	53-33	109-25
53-16	105-20	53-33	109-30
53-14	105-20	53-32	109-30
53-14	105-26	53-32	109-40
53-15	105-26	53-30	109-40
53-15	105-39	53-30	110-00

ALBERTA

(Province 09)

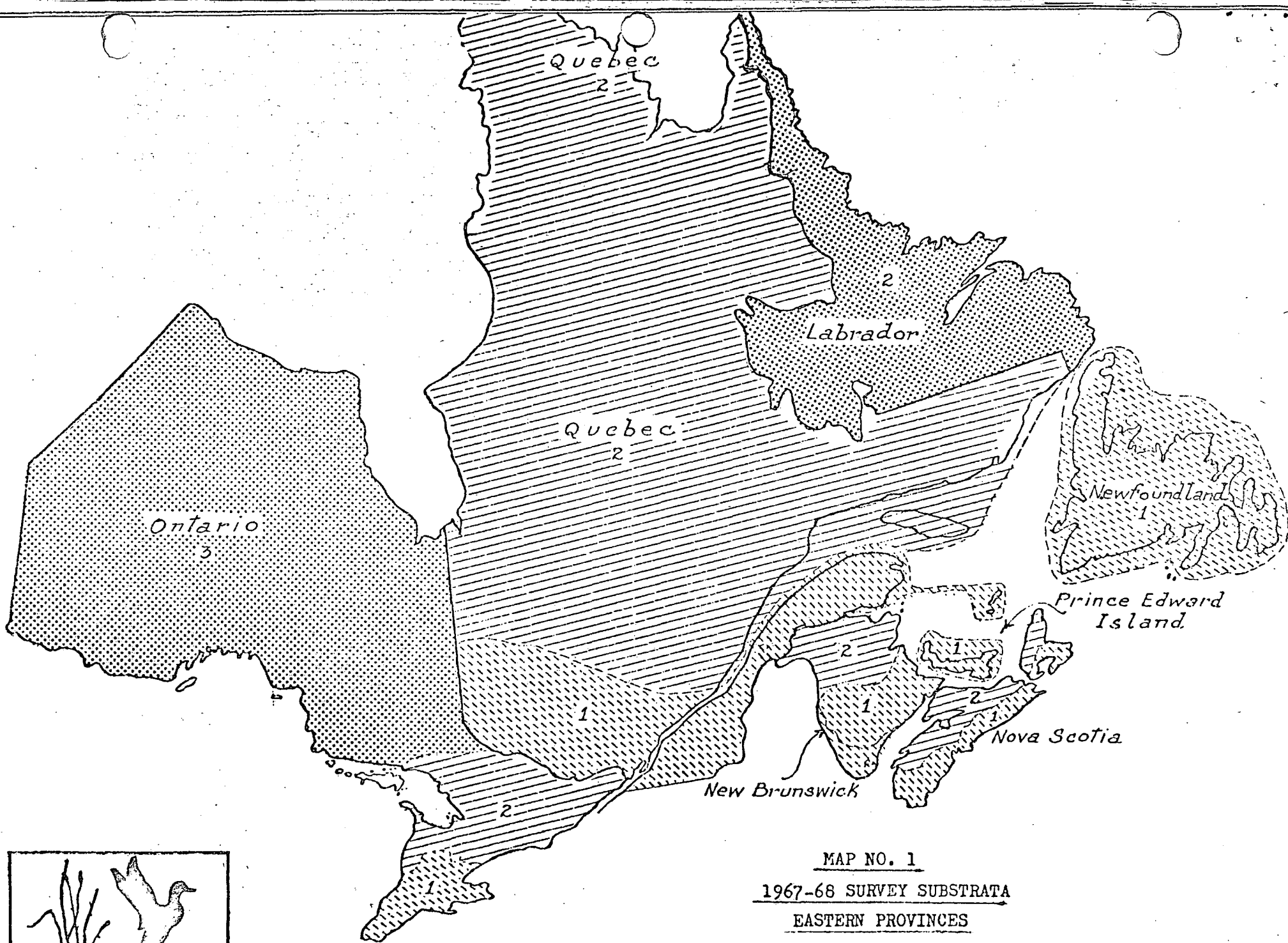
Boundary Between Substrata 01 and 02

<u>Latitude</u>	<u>Longitude</u>	<u>Latitude</u>	<u>Longitude</u>
51-52	110-00	52-20	112-45
51-52	110-12	52-19	112-45
51-56	110-12	52-19	112-50
51-56	110-21	52-18	112-50
52-01	110-21	52-18	112-55
52-01	110-30	52-21	112-55
51-58	110-30	52-21	113-05
51-58	110-35	52-18	113-05
52-01	110-35	52-18	113-10
52-01	110-40	52-10	113-10
51-58	110-40	52-10	113-15
51-58	110-45	52-06	113-15
52-01	110-45	52-06	113-55
52-01	110-50	52-03	113-55
52-00	110-50	52-03	114-00
52-00	111-10	52-05	114-00
52-01	111-10	52-05	114-25
52-01	111-20	52-03	114-25
52-06	111-20	52-03	114-40
52-06	111-28	52-07	114-40
52-05	111-28	52-07	114-50
52-05	111-38	52-03	114-50
52-09	111-38	52-03	115-00
52-09	111-50	51-56	115-00
52-13	111-50	51-56	115-25
52-13	111-59	51-50	115-25
52-17	111-59	51-50	115-41
52-17	112-37	51-45	115-41
52-20	112-37	51-45	116-00

BRITISH COLUMBIA
(Province 10)

Boundary Between Substrata 01 and 02

<u>Latitude</u>	<u>Longitude</u>	<u>Latitude</u>	<u>Longitude</u>
49-00	121-00	52-30	125-40
49-15	121-00	52-30	126-25
49-15	121-05	52-45	126-25
49-35	121-05	52-45	126-38
49-35	121-15	53-00	126-38
50-14	121-15	53-00	127-00
50-14	121-30	53-12	127-00
50-11	121-30	53-12	127-22
50-11	121-40	53-30	127-22
50-05	121-40	53-30	127-52
50-05	122-24	54-00	127-52
50-21	122-24	54-00	128-07
50-21	122-39	54-15	128-07
50-32	122-39	54-15	129-00
50-32	123-00	54-06	129-00
50-41	123-00	54-06	129-52
50-41	123-45	54-34	129-52
51-00	123-45	54-34	129-25
51-00	124-15	55-00	129-25
51-13	124-15	55-00	129-10
51-13	125-18	55-52	129-10
51-40	125-18	55-52	129-30
51-40	125-28	56-09	129-30
52-00	125-28	56-09	134-00
52-00	125-40		



MAP NO. 1
 1967-68 SURVEY SUBSTRATA
 EASTERN PROVINCES



MAP NO. 2
1967-68 SURVEY SUBSTRATA
WESTERN PROVINCES

