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Annual report to banders: Summary of birds banded in Canada in 1977

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Introduction

This is the first annual report on bird banding in Canada. It records the number of individuals of different species banded in each province and territory in 1977, the latest year for which complete records are available. We hope to encourage banders to use those data to publish the results of their programs and to co-ordinate their efforts and results for greater use of the North American Bird Banding files. The information included in this report may be used to pinpoint species and areas that are inadequately represented in, or missing from, recent banding activities.

Methods

Banding records were selected from the North American Bird Banding files for the calendar year 1977. In addition, we obtained banders' year-end reports, referred to as "notes for file", from the Canadian Bird Banding Office. We sent a questionnaire to all banders to verify totals they reported in the notes for file and those produced by the computer files for 1977. The tables presented here were prepared from the computer files with corrections made on the basis of responses to the questionnaires. We prefer to use the computer files to list and format the data for the tables to avoid transcription and addition errors, but the computer files are incomplete because of delayed banding reports. As a result, we must add in records by hand. In future, we hope to produce the annual banding report, which runs two years behind the present, solely from the computerized banding files.

For this report, we adopted the name designated by the American Ornithologists' Union (AOU) wherever species names and numbers used in the North American Bird Banding Manual differ from those published in the AOU Checklist and its supplements. Nevertheless, we have used the subspecies names Myrtle Warbler, Baltimore Oriole, Ipswich Sparrow, Slate-coloured Junco and Oregon Junco because the banding data are reliable to this level. Although Willow and Alder Flycatchers are now treated as separate species by the AOU, we could not objectively allocate the bandings of Traill's Flycatcher to those two species, so we have retained the three names according to the banders' identifications. Appendix I shows where conflicts arose in the use of species names and how we dealt with them.

Results

Compared with earlier years, 1977 produced the greatest number of banding records and banding permits issued (Table 1). In 1977, 148 master permit holders banded an

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Table 1

Yearly totals of bird banding permits issued and birds banded in Canada, 1965-77

		Numbe	er of	
Year	Master permits*	Sub- permits	Birds banded	Colour permits
1965	234	75	163 643	
1966	199	113	167 667	
1967	214	139	173 080	_
1968	218	191	131 65 0	_
1969	211	162	166 812	19
1970	206	221	204 776	42
1971	205	261	160 571	68
1972	210	219	152 094	65
1973	194	299	121 756	52
1974	187	311	155 315	54
1975	209	377	172 125	123
1976	207	422	206 493	136
1977	228	527	238 264	165

*Includes inactive as well as active banders; the yearly totals represent all permits issued.

average of 1610 birds each for a total of 238 264 birds banded in Canada (Table 2). They banded 301 species, an average of 792 individuals per species.

Of the total number of birds banded, 54% (128 239) were waterfowl (Anatidae); 31% (74 302), passerines; 11.4% (27 212) shorebirds and colonial waterbirds, excluding Anatidae; and 3.4% (8120) raptors.\The four most frequently banded species were waterfowl: Mallard, Snow Goose, Blue-winged Teal and Canada Goose (Table 3). The species rankings are listed by province and territory in Table 4.

As the 1977 Anatidae records are to be included in a forthcoming report on the historical bandings of waterfowl in Canada (Newell and Cooch, in prep.) and because much of this banding is done by federal and provincial agencies, we have chosen to emphasize the accomplishments of those banders with non-waterfowl records. With this rearrangement of species and totals to exclude Anatidae, we find that 110 025 birds of 269 species were banded. Table 5 provides a modified ranking of the top three species in each province and territory.

The Prince Edward Point Bird Observatory (PEPBO) banded the greatest number of species: 15 311 birds of 154 species. Long Point Bird Observatory (LPBO) was second with 12 983 bandings of 139 species, and the University of Guelph banding program, headed by A. Salvadori, was third in total numbers (10 945 bandings) but exceeded LPBO in total species with 143. R.I.G. Morrison reported bandings of 12 720 birds of 86 species and the Hawk Cliff Raptor Banding Station banded 4374 birds of 18 species. Other

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Table 2 Numbers of bird banders in Canada and their records for 1977

Province	No. active banders*	% total banders†	No. birds banded	% total birds	No. species banded	Av. no. birds/ bander	Av. no. birds banded /species
Newfoundland	2	1.4	1 515	0.6	20	758	75
Prince Edward Island	3	2.0	1 491	0.6	13	497	115
Nova Scotia	7	4.7	5 905	2.5	94	844	63
New Brunswick	6	4.1	6 530	2.7	98	1 088	67
Quebec	20	13.5	6 178	2.6	100	309	62
Ontario	68	45.9	91 461	38.4	223	1 345	410
Manitoba	10	6.8	30 360	12.7	85	3 036	357
Saskatchewan	16	10.8	23 054	9.7	72	1 441	320
Alberta	20	13.5	30 745	12.9	138	1 537	223
British Columbia	6	4.1	5 649	2.4	32	942	177
Northwest Territories	10	6.8	34 301	14.4	48	3 430	715
Yukon Territory	3	2.0	1 075	0.5	22	358	49
Total‡	148	_	238 264	100%	301	1 610	792

^{*}The total here is actually 171 instead of 148. This is due to individual banders banding in more than one province—in one case in eight provinces.

sizeable records are R.M. Poulin, 2776 bandings of 99 species; J.C. Finlay, 2752 bandings of 14 species; S. Houston, 2528 bandings of 41 species; and C. Griffith, 2506 bandings of 81 species.

Noteworthy bandings of individual species are 9659 Semipalmated Sandpipers banded by R.I.G. Morrison at James Bay; 2460 Sharp-shinned Hawks by Marshall Field of the Hawk Cliff Raptor Banding Station, and 1428 Tree Swallows by J.C. Finlay in Alberta.

When we exclude waterfowl from the ranking of the 1977 bandings, the ten species banded in the highest numbers in Canada are Semi-palmated Sandpiper, 11 323 bandings; Tree Swallow, 5058; Sharp-shinned Hawk, 3286; American Goldfinch, 2972; White-throated Sparrow, 2947; Ring-billed Gull, 2926; House Sparrow, 2888; Red-winged Blackbird, 2830; Common Starling, 2773; and Evening Grosbeak, 2127.

The top five species for which the most banders contributed records are: White-throated Sparrow and American Robin, 36 banders; Black-capped Chickadee, 32 banders; Slate-coloured Junco, 30 banders; Myrtle Warbler, 28 banders; and Blue Jay, 27 banders (Table 6).

Over 45% of the banders and 38% of the bandings in 1977 occurred in Ontario (Table 6). As well, 223 of the 301 total species were banded in this province. The Northwest Territories, Alberta and Manitoba were also areas with sizeable banding totals in 1977. From the distribution of banding locations plotted in Figure 1, the area covered by recent banding programs is shown. Although most of the 1977 records resulted from programs in Ontario, many more

banding locations were represented in Alberta. Sparse coverage of areas such as Newfoundland, British Columbia and northern Ontario suggest areas for further work.

Discussion

We cannot discuss trends or compare banding totals as this is the first annual bird banding report in Canada. A summary of banding activities has been published in the North American Bird Bander (NABB) in recent years for western North America. Making adjustments to avoid overlap of western Canadian banding records, we find that the 1977 NABB report includes 128 731 records from 152 American banders. This represents an average of 847 birds per bander. Looking at western Canada — Alberta, British Columbia and Yukon — in this report, the equivalent totals seem impressive in terms of accomplishment: 29 banders contributed 37 469 banding records in 1977, an average of 1292 birds per bander.

There are some patterns in the distribution of banding in Canada, such as the almost total lack of passerine banding in British Columbia. Banding there, as well as in Newfoundland and the Territories, is largely restricted to selected species with only a very few active banders. The scarcity of records in these areas is probably as much due to the number of banders (Table 6) as to the species available to be banded in each province. The tabulations provided here may be used to show similar gaps and areas requiring additional coverage in future banding programs.

By identifying individuals with similar banding interests, banders from across the country can exchange data and cooperate in their efforts. Pooling data from other stations creates a broader data base on which to formulate conclusions. Although we have not listed individual banders' totals, details may be obtained from the Canadian Wildlife Service Banding Office in Ottawa.

There is a lag in the preparation of this summary because of the time involved in obtaining completed and corrected banding reports from all active banders. It is also more accurate to prepare the tables from a computer file, which also imposes a delay. Prompt submission of banding schedules would reduce the delay. We hope that this report will encourage banders to co-operate among themselves, will point out species and areas lacking coverage and will demonstrate the wealth of data and expertise that is available in Canada. With your contributions, comments and continued support, we hope that this summary will prove to be increasingly useful and instructive.

Acknowledgements

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Appendix I

Species names used in Tables 3 and 6 where latest AOU changes are different from those currently used in the North American Bird Banding Manual

According to the Banding Manual	According to latest AOU changes	Name used in this publication
Snow Gocse — white phase Snow Goose — blue phase	Snow Goose	Snow Goose — white phase Snow Goose — blue phase
Shoveler	Northern Shoveler	Northern Shoveler
Red-tailed Hawk Harlan's Hawk*	Red-tailed Hawk	Red-tailed Hawk
Upland plover	Upland Sandpiper	Upland Sandpiper
Knot	American Knot	American Knot
Dipper	American Dipper	American Dipper
Cathird	Gray Catbird	Gray Cathird
Myrtle Warbler Aubudon's Warbler*	Yellow-rumped Warbler	Myrtle Warbler
Baltimore Oriole Bullock's Oriole*	Northern Oriole	Baltimore Oriole
Ipswich Sparrow	subspecies of Savannah Sparrow	Ipswich Sparrow
Slate-coloured Junco Oregon Junco	Dark-eyed Junco	Slate-coloured Junco Oregon Junco
Traill's Flycatcher Alder (song type "fee-bee-o") Willow (song type "fitz-bew")	Alder Flycatcher Willow Flycatcher	Traill's Flycatcher Alder Flycatcher Willow Flycatcher

^{*}Not banded in Canada in 1977.

[†]This column does not total 100% because of the problem of banders banding in more than one province.

[‡]Figures from Table 3, number of banders is a tally of total active permits in 1977.

Table 3 Number of birds banded in Canada in 1977 listed by species and province

province														
Species*	No. banders	Nfld.	PEI	NS	NB	Que.	Ont.	Man.	Sask.	Alta.	ВС	NWT	Yuk.	Total
Red-necked Grebe Horned Grebe Eared Grebe Western Grebe	1 1 1 2						1	436	1	1			,	1 1 1 437
Pied-billed Grebe Northern Fulmar Manx Shearwater Leach's Storm-Petrel Wilson's Storm-Petrel	3 1 1 4 1	167 528		23	5 40 1		1			1		139		7 139 167 591
White Pelican Northern Gannet Great Cormorant Double-crested Cormorant Great Blue Heron	2 1 1 5 2	118	197	53	50	1	200 50		149 34	547				349 118 197 681 54
Green Heron Cattle Egret Black-crowned Night Heron Least Bittern American Bittern	2 1 2 1 2						6 2 151 1 3				-			6 2 151 1 3
Whistling Swan Trumpeter Swan Canada Goose Brant White-fronted Goose	2 1 22 2 2			60	7	135	3016	2385	1929 631	50 2392	740	5 2454 326 1267	24	26 55 13118 326 1898
Snow Goose (white phase) Snow Goose (blue phase) Ross' Goose Snow x Ross' Goose Hybrid	4 2 2						475 1649	2269 1070	14 87 1			19099 7034 51 23		21857 .9753 138 24
Mallard Mallard x Black Duck Hybrid Black Duck Gadwall Common Pintail	48 18 36 19 31		13 3 1101 1 28	25 4 2166 36	26 1 661 63	922 35 1220 13 62	7290 51 1968 31 365	11079 4 49 97 313	10805 3 12 44 1733	6560 4 1 211 4005	421 1 74 135	1187 1 1497	49 380	38377 107 7178 471 8617
American Green-winged Teal Blue-winged Teal Cinnamon Teal American Wigeon Northern Shoveler	33 32 1 23 15		18 92 15 3	203 113 103 11	115 647 95 72	247 47 1 5	332 2266 8 2	702 7129 85 55	807 3085 69 50	2139 3174 254 8	2 1 1 51	160 23 2 1	63 4 61 7	4788 16581 1 744 214
Wood Duck Redhead Ring-necked Duck Canvasback Greater Scaup	27 16 8 11 2		2	389 38	152 30	31	1069 15 6	111 188 69	1 234 1 91	79 57	282		2 84	2037 516 82 219 85
Lesser Scaup Common Goldeneye Barrow's Goldeneye Bufflehead Oldsquaw	11 8 2 6 1			12	3	2	104 1 5	120	10 18 3	3			56 8 263	192 147 264 11 2
Common Eider King Eider White-winged Scoter Surf Scoter Ruddy Duck	3 2 1 1 4			265				41 1	53 7	17		7	1	306 8 53 1 25

Table 3 (cont'd)
Number of birds banded in Canada in 1977 listed by species and province

Species*	No. banders	Nfld.	PEI	NS	NB	Que.	Ont.	Man.	Sask,	Alta.	BC	NWT	Yuk.	Total
Hooded Merganser	4				3	6	8							17
Goshawk	9			2	J	3	18			8				28
Sharp-shinned Hawk	15			9		1	3261			15				3286
Cooper's Hawk	-			_			155	_		5				160
Red-tailed Hawk	17			1			524	2	3	176				706
Red-shouldered Hawk	5					1	26				-		-	27
Broad-winged Hawk	7						16	3		1				20
Swainson's Hawk Rough-legged Hawk	5 5						10		84	471		0		555
Ferruginous Hawk	2						13		68	2 369		2		17 437
Golden Eagle	4						3		17	17		1		38
Bald Eagle	3			6			2		17	18		1		27
Marsh Hawk	8			Ū			74		4	18		_		96
Osprey	3		12						19	9				40
Gyrfalcon	2											6	45	51
Prairie Falcon	3		_		-				62	327				389
Peregrine Falcon	3 7					9	5		4	28	10	58	10	124
Merlin						17	13		46	103				162
American Kestrel Whooping Crane	17 1					17	577		29	55		9		678 9
Sandhill Crane	1					,		15						15
Virginia Rail	3			1			2	10						3
Sora	2			_			3		1					4
Yellow Rail	2						4							4
Common Gallinule	3				4		2							. 6
American Coot	8		_	21	8		29		14	25	26			123
Black Oystercatcher	1										17			17
Semipalmated Plover	4		_		85		293							378
Piping Plover Killdeer	2 11		5			1	4 105				4.			9 110
				-									· · · · · · · · · · · · · · · · · · ·	
American Golden Plover	1						3					20		3
Black-bellied Plover Ruddy Turnstone	5 5				2 3		2 110					39 8		43 121
American Woodcock	8				3	21	39					0		60
Common Snipe	5						36			1	12			49
Whimbrel							1							<u>, 1</u>
Upland Sandpiper	i						4							4
Spotted Sandpiper	7				4		113							117
Solitary Sandpiper	5				1		23							24
Greater Yellowlegs	1						30							30
Lesser Yellowlegs	6						99				2			101
American Knot Purple Sandpiper	3 1						64					27		91
Pectoral Sandpiper	3						76					5 7		5 83
White-rumped Sandpiper	3						5 4 3					4.		547
Baird's Sandpiper	1											1		
Least Sandpiper	10				161		833			1	5	1 1		1 1001
Dunlin	3						310			-	338	•		648
Short-billed Dowitcher	3				17		19							36
Long-billed Dowitcher	1										3			3
Stilt Sandpiper	1						2							2
Semipalmated Sandpiper	8				1661		9659	3]	11323
Western Sandpiper	1										39	_		39
Buff-breasted Sandpiper Marbled Godwit	2						4					1		5
mainien Godwit	. 1						1							ļ

(cont'd)

Table 3 (cont'd)
Number of birds banded in Canada in 1977 listed by species and province

Species*	No. banders	Nfld.	PEI	NS	NB	Que.	Ont,	Man.	Sask.	Alta.	вс	NWT	Yuk.	Total
Hudsonian Godwit Sanderling American Avocet Black-necked Stilt	1 5 2 1		•	-	-		15 72		10 2	2	1	25		15 98 12 2
Red Phalarope	2											20		20
Wilson's Phalarope Northern Phalarope Parasitic Jaeger Long-tailed Jaeger Glaucous Gull	3 2 1 1 2						16 12	11			2	6 67 41		18 23 6 67 41
Glaucous-winged Gull Great Black-backed Gull Herring Gull California Gull Ring-billed Gull	1 4 10 2 10	2 559		108	111 470		2 814 2355		134 478	6 93	2082			2082 223 1483 140 2926
Mew Gull Franklin's Gull Ivory Gull Black-legged Kitiwake Sabine's Gull	1 1 1 1 2									1		263 90 10	1	1 263 90 10
Common Tern Arctic Tern Caspian Tern Black Tern	7 2 2 1		-		32		462 113 3		202	240		39		904 71 113 3
Thick-billed Murre	î						•					126		126
Black Guillemot Mourning Dove Yellow-billed Cuckoo Black-billed Cuckoo Barn Owl	4 10 2 8 2				9	157	216 12 47 7	2 38	22			23	2	191 240 12 89 7
Screech Owl Great Horned Owl Snowy Owl Hawk Owl Burrowing Owl	6 15 5 2 1			1		2	8 31 6	5	168	112 5 6 10	1	3		10 313 14 11 12
Barred Owl Great Gray Owl Long-eared Owl Short-eared Owl Boreal Owl	3 2 11 5			3		7	37 5	30	3	6 41 3 3				5 36 88 9 3
Saw-whet Owl Whip-poor-will Common Nighthawk Chimney Swift	16 5 2 2			1		11	733 18 3 2			26	·			771 18 3 2
Ruby-throated Hummingbird	1							11						11
Belted Kingfisher Yellow-shafted Flicker Yellow x Red-shafted	6 12			11	2	8	14 243			7		,	2	
Flicker Red-headed Woodpecker Yellow-bellied Sapsucker	1 3 14			2	1	1	1 19 166		1	8				1 19 178
Hairy Woodpecker Downy Woodpecker Black-backed Three-toed	13 24			1	1 6	2 4	25 76	4 15		1 13				33 115
Woodpecker	1		>			1								1

Table 3 (cont'd)
Number of birds banded in Canada in 1977 listed by species and province

Eastern Kingbird Western Kingbird	12	<u>-</u> -												Total
	1				3		296	48 7	7	2		·	_	356
Great Crested Flycatcher Eastern Phoebe Yellow-bellied Flycatcher	9 13 16			1 10	29	8	142 105 309	14		3 1 5		<u> </u>		145 121 361
Acadian Flycatcher Traill's Flycatcher	2 16			6	62	10	6 188	44		26				336
Alder Flycatcher Willow Flycatcher	5 2				3	4 14	13				-			20
Least Flycatcher	21			17	9	8	1402			38				16 1474
Unidentified Empidonax Eastern Wood Pewee	$\begin{matrix}2\\15\end{matrix}$			2	1	1 2	$\begin{array}{c} 3 \\ 231 \end{array}$	2						238
Western Wood Pewee Olive-sided Flycatcher	1 9			·-·		-			-	8				8
Horned Lark	5			2	1		7 10	1		1		2		12 12
Violet-green Swallow Tree Swallow	1 25			1	184		2043	100	842	1881		6	1 1	1 5058
Bank Swallow Rough-winged Swallow	5 7						959				-			959
Barn Swallow	24^{\prime}				31	. 1	68 439	18	11	1 39	38			69 577
Cliff Swallow	2					_	29				00			29
Purple Martin	7						337			490				827
Gray Jay	6	_			6	2		1		19	1			29
Blue Jay Black-billed Magpie	27 4	· 4		37	4	6	533	117	5 74	23				729
Common Raven	2			112					74	1			9	75 121
Common Crow	7			115			3		14	4			_	136
Northwestern Crow Black-capped Chickadee	$\begin{array}{c} 1 \\ 32 \end{array}$	10		9	20	0.7	205				55			55
Boreal Chickadee	7	2		3 4	32 8	27 5	807	44	49	211 1				1183
White-breasted Nuthatch	20				_		91	10	1	7				20 109
Red-breasted Nuthatch	23			5	2	29	411	3	4	21				475
Brown Creeper American Dipper	13			6		7	1107		_	3				1123
House Wren	1 15						157	11	11	4 90				4
Winter Wren	9			1		1	111	11	11	90				269 113
Carolina Wren	2				_		2				_			2
Long-billed Marsh Wren Northern Mockingbird	$egin{array}{c} 2 \\ 2 \end{array}$						1				593			594
Gray Catbird	. 21			26	18	48	4 609	234		3				4 938
Brown Thrasher	12					4	127	14		Ü				145
American Robin Varied Thrush	36 1	1		3	47	62	586	42	4	52		1		798
Wood Thrush	11			1		1	172			1				1 174
Swainson's Thrush	25			20	128	70	1581			35				1834
Hermit Thrush	22			1 ·	12	23	402			13				451
Gray-cheeked Thrush Veery	12	4.					191					,.		195
Eastern Bluebird	19 9			7	1	79	460 120	44	16	1				592
Mountain Bluebird	6 .						120		5 4 9	823				136 1372
Blue-gray Gnatcatcher	3	<u>. </u>	1				21		~ ~ /	J#U				21
Golden-crowned Kinglet	11	5		16	1		177			2		<u> </u>		201
Ruby-crowned Kinglet Vater Pipit	17 1			4	4	12	814 2			8				842

(cont'd)

Table 3 (cont'd)
Number of birds banded in Canada in 1977 listed by species and province

Species*	No. banders	Nfld.	PEI	NS	NB	Que.	Ont.	Man.	Sask.	Alta.	ВС	NWT	Yuk.	Total
Bohemian Waxwing Cedar Waxwing	3 19				25	26	397	1 20	97 5	1 37				99 510
Northern Shrike	8						11	1	1				•	13
Loggerhead Shrike Common Starling	2 6					1564	2 898		4	7	300			2 2773
White-eyed Vireo	2			_		1001	4			-				4
Yellow-throated Vireo	4			1			5							6
Solitary Vireo	13			42	11	1	100			8				162
Red-eyed Vireo Philadelphia Vireo	23 15			112 5	35 2	14 2	1090 206			$\begin{array}{c} 71 \\ 12 \end{array}$				$\frac{1322}{227}$
Warbling Vireo	13			Ū	1	ī	120	122		5				249
Black and White Warbler	20	1		84	22	7	447	1		18				580
Golden-winged Warbler Blue-winged Warbler	$\begin{array}{c} 4 \\ 2 \end{array}$						13 3							13 3
Tennessee Warbler	23			20	104	72	1028	145		659				2028
Orange-crowned Warbler	10					1	26	1		81				109
Nashville Warbler	21			8	33	15	645							701
Northern Parula Warbler Yellow Warbler	9 18			30 25	$\begin{array}{c} 12 \\ 103 \end{array}$	$\begin{array}{c} 2 \\ 148 \end{array}$	$\begin{array}{c} 17 \\ 1097 \end{array}$	449		39				61 1861
Magnolia Warbler	25			139	60	46	1704	77/		35				1984
Cape May Warbler	18			10	4	14	553			4				585
Black-throated Blue Warbler	14			13	3	7	232							255
Myrtle Warbler Black-throated Green Warbler	28 18	1		41 61	$\begin{array}{c} 112 \\ 21 \end{array}$	39 5	$\begin{array}{c} 1615 \\ 284 \end{array}$		1	65 2				1874 373
Cerulean Warbler	10			01	21	,	1			_				1
Blackburnian Warbler	16			23	3	4	437							467
Chestnut-sided Warbler	15			15	21	3	367					. –	,	406
Bay-breasted Warbler Blackpoll Warbler	19 17	5		62 83	$\begin{array}{c} 25 \\ 15 \end{array}$	16 5	$\begin{array}{c} 1275 \\ 552 \end{array}$	1 5		4 39				1383 704
Pine Warbler	2	Ů		00	-0	Ū	11	· ·		0,				11
Prairie Warbler	2		•				3							3
Palm Warbler	9			7	4 18	15	119 375	7		56			•	130 496
Ovenbird Northern Waterthrush	19 17	5		25 30	16	15 1	266	57		16				391
Louisiana Waterthrush	1						1							1
Kentucky Warbler	2						3							3
Connecticut Warbler Mourning Warbler	2 15			14		10	2 87			$\frac{3}{11}$				$\begin{array}{c} 5 \\ 122 \end{array}$
Common Yellowthroat	24			57	74	40	464			4				639
Yellow-breasted Chat Hooded Warbler	1 2						6 3							6 3
													_	
Wilson's Warbler Canada Warbler	19 23			16 16	24 28	7 17	306 586			84 13				437 660
American Redstart	24			64	155	18	723			125				1085
House Sparrow	11					9	1077	7		1795				2888
Bobolink Eastern Meadowlark	$\begin{array}{c} 4 \\ 2 \end{array}$				12		26 17							38 17
Western Meadowlark	ĩ						11		1					1
Yellow-headed Blackbird Red-winged Blackbird	$\begin{matrix} 2\\24\end{matrix}$				53	47	1502		18	14 1098	130			32 2830
										1030	190			
Orchard Oriole Baltimore Oriole	$\begin{matrix} 2\\16\end{matrix}$			12		6	1 357	15 593		89				16 1057
Rusty Blackbird	4				4	U	5	070		4				13
Brewer's Blackbird Common Grackle	3 19			2	6	15	620		1 16	5				6 659
Common Grackie	19					10			10					007

Table 3 (cont'd)
Number of birds banded in Canada in 1977 listed by species and province

Species*	No. banders	Nfld.	PEI	NS	NB	Que.	Ont.	Man.	Sask.	Alta.	ВС	NWT	Yuk,	Tota
Brown-headed Cowbird Western Tanager	24 2				5	132	720 1	71	5	2 18			•	933
Scarlet Tanager	11			4.			219							223
Cardinal	10			20	20	46	71	07		0.4				7]
Rose-breasted Grosbeak	22			39 	29	46	579	27		24				744
Indigo Bunting	6	13				_,	64							64
Evening Grosbeak	21 24			_	40	56	1640	227		204				2127
Purple Finch Pine Grosbeak	3			5	49 2	26 2	1046	646	4	41				1817 12
Hoary Redpoll	1				2	4		8 5						5
Common Padnall	3						14	92				53		159
Common Redpoll Unidentified Redpoll	1						14	92				15		15
Pine Siskin	10	9		7		4	74	8		138		13		240
American Goldfinch	22			3	4	40	2824	92		9				2972
White-winged Crossbill	1			Ū	•	••	5	/-						5
Rufous-sided Towhee	5						51					-		58
Ipswich Sparrow	1		482											482
Savannah Sparrow	22	1		3	23	8	235	226	59	3	4			562
Grasshopper Sparrow	3						10							10
Baird's Sparrow	1								4					4
Le Conte's Sparrow	1								2					2
Henslow's Sparrow	1 7					,	3							22 22
Vesper Sparrow Slate-colored Junco	30	53		85	15	1 46	$\begin{array}{c} 21 \\ 1516 \end{array}$	229	6	126				2076
Oregon Junco	1	30		6 0	13	40	1310	449	U	120				2070
Tree Sparrow	18					17	962			3				989
Chipping Sparrow	23			2	16	16	206	i		57				298
Clay-colored Sparrow	4						8			54	8			70
Field Sparrow	11			1			159							160
Harris' Sparrow	1							8						ė
White-crowned Sparrow	2					10	516	2		6				534
White-throated Sparrow	36	5		170	88	154	2365	97	2	66				2947
Fox Sparrow	14	35		1		1	48	22		2				109
Lincoln's Sparrow	16			12	47	3	245	5		10				322
Swamp Sparrow	14			4	11	32	234				260			281
Song Sparrow	26		•	1	96	7	771	63		13	268	_		1219
Lapland Longspur	6 1						25	1		4		5		31 4
Chestnut-collared Longspur Snow Bunting	7						347			*		59		406
Total species		20	13	94	98	100	223	85	72	138	32	48	22	301
Total hybrids and others			1	1	1	3	6	1	2	1	1	1	4	. 9

^{*}Italics indicate hydrid, subspecies and records unidentified as to species.

(cont'd)

Table 4
The top three species and number banded in each province and the territories in 1977

Newfoundland	Herring Gull 55	9 Leach's Storm-Petrel	528	Manx Shearwater	167
Prince Edward Island	Black Duck 116	1 Great Cormorant	197	Blue-winged Teal	92
Nova Scotia	Black Duck 2 16	6 Ipswich Sparrow	482	Wood Duck	389
New Brunswick	Semipalmated 161 Sandpiper	1 Black Duck	661	Blue-winged Teal	
Quebec	Starling 1 56	4 Black Duck	1220	Mallard	922
Ontario	Semipalmated 9 65 Sandpiper	9 Mallard	7290	Sharp-shinned Hawk	
Manitoba	Mallard 11 07	9 Blue-winged Teal	7129	Snow Goose	
Saskatchewan	Mallard 10 80		3085	Canada Goose	1929
Alberta	Mallard 6 56		4005	Blue-winged Teal	3174
British Columbia	Glaucous-winged Gull 2 08		740	Long-billed Marsh Wren	593
Northwest Territories	Snow Goose	· -	2454	Common Pintail	1497
Yukon Territory	Common Pintail 38		263	Greater Scaup	84

Table 5
Top three species banded in each province and the territories in 1977 (excluding Anatidae)

Newfoundland	Herring Gull	559	Leach's Petrel 528	Manx Shearwater 167
Prince Edward Island	Great Cormorant	197	Osprey 12	Piping Plover 5
Nova Scotia	Ipswich Sparrow	482	White-throated Sparrow 170	Magnolia Warbler 139
New Brunswick	Semipalmated Sandpiper	1611	Herring Gull 470	Tree Swallow 184
Quebec	Starling	1564	Black Guillemot 157	White-throated Sparrow 154
Ontario	Semipalmated Sandpiper	9659	Sharp-shinned Hawk 3261	American Goldfinch 2824
Manitoba	Purple Finch	646	Baltimore Oriole 593	Yellow Warbler 449
Saskatchewan	Tree Swallow	842	Mountain Bluebird 549	Ring-billed Gull 478
Alberta	Tree Swallow	1881	House Sparrow 1795	Red-winged Blackbird 1098
British Columbia	Glaucous-winged Gull	2082	Long-billed Marsh 593 Wren	Dunlin
Northwest Territories	Ivory Guil	263	Northern Fulmar 139	Thick-billed Murre 126
Yukon Territory	Gyrfalcon	45	Peregrine Falcon 10	Common Raven 9

Table 6
Number of banders per species in 1977 listed by province

Species*	Nfld.	PEI	NS	NB	Que.	Ont.	Man.	Sask.	Alta.	ВС	NWT	Yuk.
Red-necked Grebe Horned Grebe Eared Grebe Western Grebe Pied-billed Grebe	. 17 17			1		1	1	1	1			
Northern Fulmar Manx Shearwater Leach's Storm Petrel Wilson's Storm Petrel White Pelican	1 1		1	2		1		1			1	
Northern Gannet Great Cormorant Double-crested Cormorant Great Blue Heron Green Heron	1	1	1	1	1	1 2		1	2			
Cattle Egret Black-crowned Night Heron Least Bittern American Bittern						1 2 1 2				_		
Whistling Swan Trumpeter Swan Canada Goose Brant White-fronted Goose			1	1	1	1 11	2	3	1 2	3	1 2 2 2	1
Snow Goose (Blue and White) Ross' Goose Snow x Ross' Goose Hybrid Mallard Duck		2	2	1	3	1 22	1	1 1 1 10	4	1	1 1 1	1
Mallard x Black Duck Hybrid Black Duck Gadwall Pintail		2 2 1 1	2 3 2	1 2 1	1 3 1 1	6 18 4 9	2 4 2 4	2 7 8 9	2 1 3 3	1 1 1	1	1
American Green-winged Teal Blue-winged Teal Cinnamon Teal American Wigeon Northern Shoveler	-	2 2 2 1	2 2 3 1	1 1 1	2 2 1 1	10 10 5 1	3 4 3 2	9 8 8 4	4 3 1 3 3	1 1	1 1 1	1 1 1
Wood Duck Redhead Ring-necked Duck Canvasback Greater Scaup		1 1	3 2	1	2	17 3 3	2 3 3	1 7 1 5	3 2	2		1 1
Lesser Scaup Common Goldeneye			1	1	· 1	1	2	6	2			1 1

Table 6 (cont'd)
Number of banders per species in 1977 listed by province

Barrow's Goldeneye Bufflehead	Species*	Nfld.	PEI	NS	NB	Que.	Ont.	Man.	Sask.	Alta.	BC	NWT	Yukon
King Eider White winged Scoter Surf Scoter Ruddy Duck 1 1 2 1 2 1 1 2 1 1 2 1 1 2 1 1 1 2 1 1 1 2 1 1 1 2 1 1 1 1 2 1	Bufflehead	. ,					1	1	3	2			1
Ruddy Duck	King Eider White-winged Scoter			2					1			1	
Coshawk								1	1	2			1
Sharp-shinned Hawk 1	Hooded Merganser				1	1			- <u>-</u> -	. 4			
Cooper's Hawk 1						1					,		
Red-shouldered Hawk 1 4 4 Broad-winged Hawk 5 1 1 Swainson's Hawk 1 4 1 Rough-legged Hawk 2 2 2 1 Ferruginous Hawk 2 2 1 1 Golden Eagle 1 1 1 1 1 Bald Eagle 1 2 1 1 1 2 1 1 1 2 1 1 1 2 1 1 2 1 1 1 2 1 2 1 1 2 1 2 1 <td></td> <td></td> <td></td> <td>ı</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>				ı									
Broad-winged Hawk S				· 1				1	1				
Swainson's Hawk			····			1	4						
Rough-legged Hawk 2							5	Ţ	1				
Ferruginous Hawk 2 1 1 1 1 1 1 1 1 1							9		1			1	
Bald Eagle 1 1 1 1 1 1 1 1 1 1 1 1 2 0 0 0 1		·					4		2			1	
Marsh Hawk 5 1 2 Osprey 1 1 1 Gyrfalcon 2 1 Prairie Falcon 2 2 Peregrine Falcon 1 2 1 1 2 1 Merlin 3 2 3 3 3 American Kestrel 2 10 2 4 Whooping Crane 1 2 4 Sandhill Crane 1 2 3 Virginia Rail 1 2 2 Sora 1 1 3 2 1 Yellow Rail 2 2 2 Common Gallinule 1 2 1 1 American Coot 1 1 3 2 1 1 Black Oystercatcher 1 3 2 1 1 Semipalmated Plover 1 3 1 1 Willdeer 1 9 1 1 American Golden Plover 1 2 2 Ruddy Turnstone 2 1 2 American Woodcock 2 6 Common Snipe 1 1									2				
Osprey Gyrfalcon 1 1 1 1 1 1 1 2 1 1 2 1 1 2 1 1 1 2 1 1 1 1 1 1 1 1 1 1 2 1 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 3 3 1 1 2 2 2 3 3 1 1 3 2 1 1 3 2 1 1 3 2 1 1 3 2 1 1 3 1 1 3 2 1 1 3 2 1 1 3 1 1 3 1 1				1					,			1	
Gyrfalcon 2 1 Prairie Falcon 1 2 1 1 1 2 1 Peregrine Falcon 1 2 1 1 1 2 1 Merlin 3 2 3 3 2 3 American Kestrel 2 10 2 4			1				5						
Prairie Falcon 2 2 Peregrine Falcon 1 2 1 1 2 1 Merlin 3 2 3 3 2 3 American Kestrel 2 10 2 4 <t< td=""><td></td><td></td><td>1</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>2</td><td>1</td></t<>			1									2	1
Peregrine Falcon 1								<u></u>					
Merlin 3 2 3 American Kestrel 2 10 2 4 Whooping Crane 1 1 1 1 Sandhill Crane 1 2 1 1 2 1 1 1 2 1 1 1 2 1 1 2 1 1 2 2 1 1 3 2 1 1 1 3 2 1 1 1 3 2 1 1 1 3 2 1 1 1 3 2 1 1 3 2 1 1 3 2 1 1 3 2 1 1 3 3 1 1 3 3 1 1 3 3 1 1 3 3 1 1 3 3 1 1 3 3 1 1 3 3 1 1 3 3 1 1 3 3 1 1 3 3 1 1						_	_			2		_	_
American Kestrel Whooping Crane 1 Sandhill Crane 1 Virginia Rail 1 2 Sora 1 1 1 Yellow Rail 2 Common Gallinule 1 2 American Coot 1 1 1 3 2 1 Semipalmated Plover 1 3 Fiping Plover 1 1 Killdeer 1 9 1 American Golden Plover 1 9 1 American Golden Plover 1 2 Ruddy Turnstone 2 1 2 American Woodcock 2 6 Common Snipe 1 1 Whimbrel 1						1	2				.1	2	1
Sandhill Crane						2							
Virginia Rail 1 2 Sora 1 1 Yellow Rail 2 2 Common Gallinule 1 2 American Coot 1 1 3 2 1 1 Black Oystercatcher 1 3 2 1 1 1 1 1 1 1 1 1 1 1 2 1 2 1 2 1 2 1 2 1 2 <						_	10		-			1	
Sora 1	Sandhill Crane							1					
Yellow Rail 2 Common Gallinule 1 American Coot 1 Black Oystercatcher 1 Semipalmated Plover 1 Semipalmated Plover 1 Piping Plover 1 Killdeer 1 American Golden Plover 1 Black-bellied Plover 1 Ruddy Turnstone 2 American Woodcock 2 Common Snipe 3 Whimbrel 1	Virginia Rail			1						_			
Common Gallinule 1 2 American Coot 1 1 3 2 1 1 Black Oystercatcher 1 3 1										1			
American Coot 1 1 3 2 1 1 Black Oystercatcher 1 3 1					1								
Black Oystercatcher			 <u>-</u>							1			
Semipalmated Plover 1 3 1 1				1	1		3		4	1			
Piping Plover 1 1 Killdeer 1 9 1 American Golden Plover 1 2 2 Black-bellied Plover 1 2 2 Ruddy Turnstone 2 1 2 American Woodcock 2 6 Common Snipe 3 1 1 Whimbrel					1		3				<u> </u>		
American Golden Plover Slack-bellied Plover 1 2 2 Ruddy Turnstone 2 1 2 American Woodcock 2 6 Common Snipe 3 1 1 Whimbrel 1	Piping Plover		1										
Black-bellied Plover 1 2 2 Ruddy Turnstone 2 1 2 American Woodcock 2 6 Common Snipe 3 1 1 Whimbrel	Killdeer					1	9				1		
Ruddy Turnstone 2 1 2 American Woodcock 2 6 Common Snipe 3 1 1 Whimbrel 1												•	
American Woodcock 2 6 Common Snipe 3 1 1 Whimbrel 1 1 1					1							2	· i · • v
Common Snipe 3 1 1 Whimbrel . 1					4	2						2	
Whimbrel 1						-				1.	1		
		·				···	1	· · ·			 -		

Table 6 (cont'd)
Number of banders per species in 1977 listed by province

Species*	Nfld.	PEI	NS	NB	Que.	Ont.	Man.	Sask.	Alta.	ВС	NWT	Yukon
Spotted Sandpiper Solitary Sandpiper Greater Yellowlegs	,			1 1		6 4 1	<u> </u>					
Lesser Yellowlegs American Knot Purple Sandpiper Pectoral Sandpiper White-rumped Sandpiper						5 2 2 1				1	1 1 1 2	
Baird's Sandpiper Least Sandpiper Dunlin Short-billed Dowitcher Long-billed Dowitcher				1		6 2 2			1	1 1	1	
Stilt Sandpiper Semipalmated Sandpiper Western Sandpiper Buff-breasted Sandpiper Marbled Godwit				1		1 6 1 1	1			1	1	
Hudsonian Godwit Sanderling. American Avocet Black-necked Stilt Red Phalarope						1 3		1	1	1	1 2	
Wilson's Phalarope Northern Phalarope Parasitic Jaeger Long-tailed Jaeger Glaucous Gull					_	2 1	1			1	1 1 2	
Glaucous-winged Gull Great Black-backed Gull Herring Gull California Gull Ring-billed Gull	1 1		1	1 2		1 7 8		1 1	1 1	1		
Mew Gull Franklin's Gull Ivory Gull Black-legged Kittiwake Sabine's Gull									1		1 1 2	1
Common Tern Arctic Tern Caspian Tern Black Tern Thick-billed Murre				1		4 2 1		2	1		1	
Black Guillemot Mourning Dove				1	1	8	1	1			1	1

Table 6 (cont'd)
Number of banders per species in 1977 listed by province

Species*	Nfld.	PEI	NS	NB	Que.	Ont.	Man.	Sask.	Alta.	BC	NWT	Yukon
Yellow-billed Cuckoo						2						•
Black-billed Cuckoo				1		6	l					
Barn Owl						2				,		
Screech Owl					1	5		_	_	_		
Great Horned Owl			1			8		3	3	1		,
Snowy Owl						2	1		$rac{2}{1}$			1
Hawk Owl							1	1	l			
Burrowing Owl	··· ·· ··· ·											
Barred Owl			1			1	1		7			
Great Gray Owl					2	5	1	. 1	1 3			
Long-eared Owl			1		2	5 2		. 1	$\frac{3}{2}$			
Short-eared Owl Boreal Owl			1			2			ī			
										 		
Saw-whet Owl			1		2	8			5			
Whip-poor-will						5 2						
Common Nighthawk Chimney Swift						$\frac{2}{2}$						
Ruby-throated Hummingbird						_	1					
D.Jr. 3 Vin effeken						6	<u></u>					
Belted Kingfisher Yellow-shafted Flicker			1	1	1	8			1			ì
Yellow x Red-shafted Flicker			-	_	_	1						
Red-headed Woodpecker						3						
Yellow-bellied Sapsucker			1	1	1	9			2			
Hairy Woodpecker			•	1	1	10	1		1			
Downy Woodpecker			1	3	2	15	2		3	•		
Black-backed Three-toed Woodpecker	i				1	_	,	0				
Eastern Kingbird				1		7	1	2	1			
Western Kingbird					*-		1					
Great Crested Flycatcher						8			1			
Eastern Phoebe			1	0	0	10	1		1			
Yellow-bellied Flycatcher			1	3	2	$\begin{array}{c} 10 \\ 2 \end{array}$			1			
Acadian Flycatcher Traill's Flycatcher			1	2	1	9	1		2			
——————————————————————————————————————												
Alder Flycatcher				1	3	2						
Willow Flycatcher			1	0	1 3	$1 \\ 14$			2			
Least Flycatcher Eastern Wood Pewee			l l	2 1	$\frac{3}{2}$	10	1		2			
Western Wood Pewee			*	_	-	10	•		1			
					_							
Olive-sided Flycatcher			1	1		5 4	1		1		1	
Horned Lark						4					. 1	1
Violet-green Swallow Tree Swallow			1	2		13	1	2	4		1]
Bank Swallow			-	_		5	. –	_				
D						7			"			
Rough-winged Swallow Barn Swallow				2	1	13	1	1	3	2		
Darii Owaliow				-	-	-0	-	-	-	-		

Table 6 (cont'd)
Number of banders per species in 1977 listed by province

Species*	Nfld.	PEI	NS	NB	Que.	Ont.	Man.	Sask.	Alta.	BC	NWT	Yukon
Cliff Swallow						2						
Purple Martin						5			2			
Gray Jay				2	1		1		2	1		
Blue Jay	1		2	1	1	19	2	1	2			
Black-billed Magpie								3	1			
Common Raven			1									1
Common Crow			1			2		2	2			
Northwestern Crow										1		
Black-capped Chickadee	2		2	2	3	19	2	1	4			
Boreal Chickadee	2		1	1	3				1			
White-breasted Nuthatch						16	1	1	2			
Red-breasted Nuthatch			1	1	3	16	1	1	1			
Brown Creeper			1		2	9			1			
American Dipper						-			1			
House Wren						10	1	1	3			
Winter Wren			1		1	7						
Carolina Wren.						2						
Long-billed Marsh Wren						1				1		
Northern Mockingbird						2						······
Gray Catbird			1	2	3	13	2		1			
Brown Thrasher					1	10	1					
Robin	1		1	3	7	18	2	1	3		1	
Varied Thrush									1			
Wood Thrush			1		1	9			_			
Swainson's Thrush			l	4	4	15			2			
Hermit Thrush	2		1	2	2	16			2			
Gray-cheecked Thrush	2		,	1	_	10 11	1		1			
Veery Eastern Bluebird			1	1	5	7	1	2	1			
Mountain Bluebird						•		$\frac{2}{2}$	4			
									 -			
Blue-gray Gnatcatcher	1		,	1		3			1			
Golden-crowned Kinglet	1		1 1	1 2	2	$\begin{matrix} 7 \\ 12 \end{matrix}$			1 1			
Ruby-crowned Kinglet Water Pipit			1	2	2	12			ı			•
Bohemian Waxwing						•		1	1			
Cedar Waxwing		 -		1	4	10	1	1	2		<u> </u>	
Northern Shrike				1	7	6	l	ì	4			
Loggerhead Shrike						2	-	•				
Common Starling					2	$1\overline{2}$		1	1	1		
White-eyed Vireo						2						
Yellow-throated Vireo			1			3						•
Solitary Vireo			î	2	1	ğ			1			
Red-eyed Vireo			î	3	4	$1\overline{4}$			$\hat{2}$			
Philadelphia Vireo			ĩ	ì	ī	11			2			
Warbling Vireo				1	1	8	1		2			

Table 6 (cont'd)
Number of banders per species in 1977 listed by province

Species*	Nfld.	PEI	NS	NB	Que.	Ont.	Man.	Sask.	Alta.	BC	NWT	Yukon
Black and White Warbler Golden-winged Warbler Blue-winged Warbler	1		1	3	2	12 4 2	1	,	2			
Tennessee Warbler Orange-crowned Warbler			1	3	5 1	11 7	1 1		3 1		•	
Nashville Warbler Northern Parula Warbler Yellow Warbler			1 1 1	3 3 2	5 1 2	13 4 10	2		1			
Magnolia Warbler Cape May Warbler			2 1	4 2	5 3	13 11			2 1			
Black-throated Blue Warbler Myrtle Warbler Black-throated Green Warbler Cerulean Warbler	1		1 1 1	2 3 4	1 6 3	11 15 9 1			2 2	-, -		
Blackburnian Warbler			1	2	3	11						
Chestnut-sided Warbler Bay-breasted Warbler Blackpoll Warbler Pine Warbler Prairie Warbler	2		1 1 1	2 3 4	3 3 2	9 11 8 2 2	1		1			
Palm Warbler Ovenbird Northern Waterthrush Louisiana Waterthrush Kentucky Warbler	1		1 1 1	1 2 4	3 1	7 11 10 1 2	1 1		2			
Connecticut Warbler Mourning Warbler Common Yellowthroat Yellow-breasted Chat Hooded Warbler			1 1	4	3 4	1 10 14 1 2	-		1 1 2			-
Wilson's Warbler Canada Warbler American Redstart House Sparrow Bobolink Eastern Meadowlark			1 1 2	2 3 4	2 5 5 1	12 13 12 8 3 2	1		3 2 2 1			
Western Meadowlark Yellow-headed Blackbird Red-winged Blackbird Orchard Oriole Northern Oriole			2	1	3 2	10 1 10	1	1 1 3	1 1			
Brewer's Blackbird Common Grackle			1	1 1 1	4 5	2 13 16	1	1 1 1	1 2			
Rusty Blackbird Brewer's Blackbird Common Grackle Brown-headed Cowbird Western Tanager			1	1		13	1	1	2			

Table 6 (cont'd)
Number of banders per species in 1977 listed by province

Species*	Nfld.	PEI	NS	NB	Que.	Ont.	Man.	Sask.	Alta.	ВС	NWT	Yukon
Scarlet Tanager Cardinal		·····	1			10 10						
Rose-breasted Grosbeak Indigo Bunting	27		2	3	3	12 6	2		1			
Evening Grosbeak					2	14	2	_	4			
Purple Finch Pine Grosbeak Hoary Redpoll Common Redpoll Unidentified Redpoll			1	2	5 1	15 1	1 1 1 1	1	1		1 1	
Pine Siskin American Goldfinch White-winged Crossbill Rufous-sided Towhee	1		1 1	1	1 2	5 15 1 4	1		1 2	1		
Ipswich Sparrow			1			T				1		
Savannah Sparrow Grasshopper Sparrow	1		2	3	1	11 3	1	1	1	1	-	
Baird's Sparrow Le Conte's Sparrow Henslow's Sparrow						1		1 1				
Vesper Sparrow Slate-colored Junco Oregon Junco	1		2	2	1 7	6 16 1	1	1	2			
Tree Sparrow Chipping Sparrow			1	2	2 4	15 13	1 1		1 3			
Clay-colored Sparrow Field Sparrow			1			2 10		1	11		_	
Harris' Sparrow White-crowned Sparrow White-throated Sparrow	1.		2	3	4 10	16 18	1 1 1	1	2 2			
Fox Sparrow Lincoln's Sparrow	2		1 1	2	1 1	8 10	1 1		1 2			
Swamp Sparrow Song Sparrow Lapland Longspur			1 1	2 2	1 3	11 17 4	1 1		2	1	1	
Chestnut-collared Longspur Snow Bunting						6			1		1	

^{.*}Italics indicate hybrids, subspecies and records unidentified as to species.

Figure 1 1977 bird banding sites in Canada. Scale 1:25 000 000

