



N.B. NATURALIST

9(2) March 1979

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V. 9(2) MARCH 1979



N. B. FEDERATION OF NATURALISTS / FÉDÉRATION DES NATURALISTES DU N.-B.
277 Douglas Avenue, Saint John, N. B., Canada E2K 1E5 Tel. 693-1196

The federation was formed in 1972 in order to

- develop an understanding interest in nature among amateur naturalists
- serve as a means of communication and cooperation among nature-oriented groups and individuals
- promote ecologically sound policies and programs of resource management
- foster public awareness of the relationships between man and nature.

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Advice to Contributors

Preferred articles are those from one-half to two pages in length, having relevance to the natural history of New Brunswick. Authors of potentially longer articles are invited to contact the editors. Drawings and cover illustrations should be in black ink and in the same size and proportions they would occupy in the N.B. Naturalist. Observations for "Nature News" should be submitted promptly after March 15, May 31, August 15 and November 15, or more frequently.

Aux Naturalistes Francophones

Nous avons besoin d'articles en français, aussi de volontaires qui voudraient écrire des résumés en français des articles en anglais.

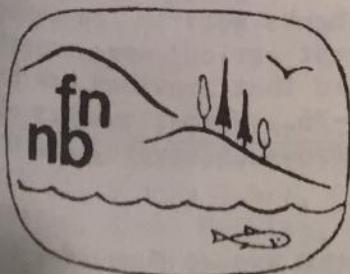
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Correspondence

Re the N.B. Naturalist to editor, N.B. Naturalist, 277 Douglas Ave., Saint John, N.B. E2K 1E5. Articles and reports are always welcome.

Re federation policies and programs to Harry Walker, 276 Heath Court, Newcastle, N.B. E1V 2Y5.



MARCH, 1978

David Christie

Of the 27 Christmas Counts last winter, Edmundston and Mount Carleton were new ones, not previously conducted. Despite an increase in overall effort, for the first time since 1970, the total number of species dropped below 100. Most areas also had low species counts last winter. That was because fewer lingering summer species than usual survived until count period.

	1973-74	1974-75	1975-76	1976-77	1977-78
No. of counts	27	27	27	28	27
Party-hours	617	660	610	574	655
Feeder reports	102	113	130	136	136
Species seen	113	103	106	105	96
Additional spp. (count period)	9	6	5	4	5
Total birds	67,692	49,688	59,115	42,866	49,334

Two species not previously found on a New Brunswick count were seen - an American Coot at Eastport-Campobello and a Long-eared Owl at Lepreau. Neither one is very unusual in winter but our local populations mostly winter farther south. Among the species reported in larger numbers than before, it is pleasing to note Bald Eagle, of which 13 were seen at St. Andrews.

The general patterns observed included a marked scarcity of native sparrows with the exception of Tree Sparrow. In some cases, the provincial total was less than the number that some individual counts normally report. It was an incursion year for Pine Grosbeaks, Common Redpolls, Bohemian Waxwings and Northern Shrikes, all of which occurred in very good numbers on the counts. Other finches and Rough-legged Hawks were relatively scarce and no Snowy Owls were reported. Boreal Chickadees and nuthatches were found in lower than usual numbers but the Ruffed Grouse population was observed at a high level for the fourth year in a row. (Few Ring-necked Pheasants were seen, aside from the record 76 at Sackville.)

It was a low year for loons and grebes with the exception of Common Loon (of which a record 29 were at Eastport-Campobello). Great Cormorants were in normal numbers. Although four species of alcids were recorded, Razorbills, usually most common, were not seen for the first time since 1967.

Normal numbers of most ducks were found, but Black Ducks (two of them well inland, at Plaster Rock), Black Scoters and Common Eiders were rather low. Low counts of the last in most areas were balanced by a provincial record high count, 1851, at St. Andrews where there also was a record number (376) of Surf Scoters.

The Glaucous Gull count was a bit above average, Herring Gull a bit below and the other gulls in the usual numbers. Newcastle-Chatham and Fredericton, both counted right after the heavy Christmas rainstorm, had unusually large numbers of gulls for their areas.

With the exception of Goshawk and Bald Eagle, hawks were in low numbers. Two Merlin and a Cooper's Hawk (plus another in count period) were reported. A Golden Eagle at Riverside-Albert may be the same bird that provided New Brunswick's first Christmas Count record of the species in 1975-76. Normal numbers of Great Horned and Barred Owls were seen. The Cambridge-Narrows observers, who made a special effort for owls, found three Great Horned.

Mourning Doves lingered fairly commonly along the Bay of Fundy for the third year in a row, producing a record count of 56 at Eastport-Campobello. Below average numbers of Downy Woodpeckers, but average of Hairies, were seen. No Black-backed Three-toed Woodpeckers were found on count day but a Northern was seen.

12

Of the corvids, Gray Jays were in relatively low numbers, Blue Jays near average (yet low in comparison to 1971-76), Ravens high and Crows low. Black-capped Chickadee numbers were normal but Boreal Chickadees, as well as Red-breasted Nuthatches, were very low. White-breasted Nuthatches and Brown Creepers were seen in a bit below average numbers.

It is rather remarkable that five Mockingbirds should be counted in one year. Observers at Saint John could not locate a third one known to be present and one was also at Sackville during count period. The Robins certainly went south last year; they were the scarcest they've been since 1962.

Golden-crowned Kinglets, in average numbers overall, were concentrated, as they often seem to be, in southeastern N.B. The Bohemian Waxwing flight was about three times as big as any recorded on our counts before and Northern Shrikes equalled the numbers recorded in 1965-66.

Starling numbers were near normal on the counts but House Sparrows were rather low. All blackbirds, except Rusties, were reported in numbers below the average for recent years. In particular, Cowbirds were the scarcest they've been since 1966. No orioles or meadowlarks were reported.

Many Pine Grosbeaks and Common Redpolls came south this winter. Other finches were seen in average numbers at best and were not evenly distributed. A very large part of the Purple Finches were at Jemseg and Stanley and of the Goldfinches at Fredericton and Saint John, where Cardinal was counted for the fifth year in succession.

Average numbers of Tree Sparrows were observed but other sparrows were few. Juncos were scarcer than since 1960, White-throats than since 1970 and Song Sparrows than since before 1960. Fairly good numbers of Snow Buntings were found and there were the usual few Lapland Longspurs and Horned Larks.

Summer birds of species not frequently seen in winter included two Great Blue Herons, an American Wigeon (2nd record on N.B. counts) at Fredericton, a Hooded Merganser, an American Kestrel and a Chipping Sparrow at St. Andrews, a Belted Kingfisher at Mount Carleton (cold country, but with lots of swift, open streams), and a White-crowned Sparrow at Saint John. During count period there were also Pintail at Kouchibouguac, Winter Wren at Hammond River-Hampton and Grasshopper Sparrow at Sackville. Counters at Cape Tormentine missed Yellow-rumped Warblers for the first time since 1969, probably because of the strong cold wind that day.

NEW BRUNSWICK CHRISTMAS BIRD COUNTS, DECEMBER 17, 1977 - JANUARY 2, 1978

(The birds, weather and coverage effort are listed in the accompanying table, with the counts designated by an abbreviation, as noted after each count name in the following list of other information, and arranged from south to north for coastal areas, followed by the inland areas, also arranged from south to north.)

Upper Bay of Fundy, N.B.-N.S. (BF)

Cloudy, occasional light sleet; seas light to moderate; observations from deck of the "Princess of Acadia".
Mary Fredrickson, Trevor Goward, Bob Lamberton, Susan Rotroff, Stu Tingley (compiler)
Note: This count has a slight overlap with the Saint John area.

Eastport-Campobello, Maine-N.B. (E-C)

Clear; 0-10 cm snow cover, freshwater frozen, salt water open.
Denis Abbott, Sidney Bahrt, Paula Bartlett, Tom Bartlett, Arlo Bates, Davis Finch,
David Norris, Simon Perkins, Fred Purnell, Nellie Ross, William Townsend (compiler),
Dick Veit, Peter Vickery, Dave Whittier.

St. Andrews (St.A)
Overcast: ground mostly bare except in woods, fresh water frozen.
Steve & Carol Adamowicz, Mrs Hollis Bartlett, Mike Dadswell, Jacqueline Davis,
Rob & Jen Elner, Chris Frantsi, Donald Graham, Mrs Donald Johnson, Mr & Mrs Ken
Langmid, Daryl Linton, Mrs Cecil Lowery, Talbot Mais, Willa MacCoubrey (compiler),
Dr & Mrs Don McLeese, Dr & Mrs Bev Scott, Mrs Richard Smith, Awars Stasco, Mrs
Fred Nutter, Mrs Curtis Upham, Mrs David Walker.

Pennfield (PENN)

Snow flurries; ground snow covered, ebb tide a.m.
M. Brown, Mrs D. Eldridge, Mrs L.P. Morehouse, M.C. Morehouse, Mrs M.C. Morehouse
(compiler), Mr & Mrs E.A. Nason.

Lepreau (LEP)

Clear; 0-35 cm crusted snow, non-tidal waters frozen.
Art Callaghan, David Christie (compiler), J.L. Holman, Cecil Johnston, Donald
McAlpine, Louise Shonaman, Jim Wilson.

Saint John (SJ)

Clear;
Richard Blacquiere, Fred Brock, David Christie (compiler), Florence Christie,
Mrs E.J. Cram, Mrs. M.J. Duffy, Joyce Golden, Irenie Gorham, Stan Gorham, Grace
Hayes, Gayl Hipperson, Russell Jamieson, Cecil Johnston, Don McAlpine, Mrs. E.
McIntosh, Mrs K.N. Melvin, Bob & Eleanor Parke, Don & Margaret Patterson, Ron &
Joan Pearce, Mary Ross, David Smith, Evan Smith, Reg Smith, Jim Wilson.

Fundy National Park (FNP)

Clear, brisk wind; 30-50 cm snow, most in the highlands.
Bert Buchanan, Jean Buchanan, Shirley Burgess, Jean-Guy Chevarie, Henrik Deichmann
(compiler), Joanne Deichmann, John Gorman, Les & Norma Gray, Alain Gros-Louis
Susan Harris, Doris Hatt, David Huddlestone, Robert LeBlanc, George Sinclair,
Sedgewick Sinclair, Barry & Margot Spencer.

Riverside-Albert (ALB)

Cloudy, becoming clear; 35 cm snow cover, lakes frozen, streams open, very little
sea ice.

Mrs. Weldon Beaman, David Christie (compiler), Brian Dalzell, Henrik Deichmann,
Mary & Mike Majka, Kathy Martin, Eric Tull, Joanne Deichmann.

Sackville (SACK)

Cloudy, light snow squalls early a.m., occasional light mist till noon; 25-30 cm
lightly crusted snow, fresh water mostly frozen, salt water open with scattered
ice floes.

Peter Barkhouse, Paul Bogaard, Tony Erskine, Hinrich Harries, Peter Hicklin, Ron
Hounsell, Bob Lamberton, Tony Lock, Susan Rotroff, Al Smith (compiler), Stuart
Tingley.

Moncton (MTON)

Overcast with showers and snow flurries; 60 cm snow cover.
Mr & Mrs Hamilton Baird, Doreen Carter, David Christie, Albert Cormier, David
Curry, Brian Dalzell, Marguerite Hope, Fred & Paul Lloyd, Mary & Mike Majka,
Winston Prince, Mrs F.B. Proude, Mr & Mrs W.J. Quartermain, Mrs B. Swinamer,
Doug Whitman (compiler),

Cape Tormentine (CT)

Cloudy; gusty wind; 15-38 cm fresh crusted snow, exposed areas blown fairly
clear, fresh water frozen, salt water open Cape Monash to Cape Tormentine, large
ly frozen (slush and ice floes) Cape Tormentine north along shore and $\frac{1}{2}$ mile
seaward.

peter Barkhouse, Paul Bogaard, Tony Erskine, Trevor Goward, Hinrich Harries, peter Hicklin, Ron Hounsell, Bob Lamberton, Jean Ouellette, Bill Prescott, Al Smith (compiler), Ralph Stoops, Stu Tingley.

Kouchibouguac National Park (KNP)

partly cloudy to mostly clear: 2-22 cm snow cover, fresh water frozen, salt water open.
Jean-Guy Chavarie, Roger Daigle, Yolande Doucet, Denis Godin, Robert LeBlanc (compiler), Carmel Levesque, David Robichaud, Gilles Robichaud, Pierrette Robichaud, Ulysse Robichaud, Elizabeth Rooney.

Newcastle-Chatham (MIR)

Cloudy, clearing late p.m.: 50 cm snow cover, a few very small patches of open water.

Margaret Adams, Carl Anderson, Edith Boudreau, Mrs Robert Bransfield, Colin Cadogan, George Cadogan, Bill Campbell, Timothy Clark, Mike Coster, Mrs Graham Crocker, Mrs Thomas Flynn, Vernon Goodfellow, Andrew Grieve, Phyllis Jardine, John Keating, Debbie LeHeup, Don LeHeup, Hazen Loban, Irene Loggie, Floyd Lounsbury, Sarah Lounsbury, Nora McKenzie, Carl Perry, Anna Rogers, Theresa Ross, members of St. Michael's Convent, Mrs Gordon Steeves, Mrs Jac Van Leeuwen, Harry Walker (compiler), Ian Walker, Lyle Walker, Winnie Walker.

Ile Lamèque (LAM)

Sunny; water frozen along southern part of island, ground partially covered by 2-5 cm snow.

Hilaire Chiasson (compiler), Rose-Aline Chiasson.

Sussex (SUSS)

Sunny, becoming overcast; 40 cm snow with crust, mostly open water.
Tom Anderson (compiler), Eleanor Arnold, Gladys Bickford, H.R. Bryant, Florence Dodge, Harriet Folkins, George Freeze, Mrs Tom Harrison, Irma Macaulay, Mrs Sterling Moffett, John Nicholson, Mrs Charles Polley, Mrs Gordon Pringle, Mrs D.S. Rideout, Mrs Hubert Robinson, Gladys Steeves, Mrs Gerard Thompson.

Hammond River-Hampton (HTON)

Broken overcast with periodic snow flurries; 30-35 cm snow cover, most water frozen.
R. Blacquiere, D. Christie, D. Clark, P. Clark, L. Darling, R. Darling, Mrs P. Kelbaugh, M. Majka, D. McAlpine, Mrs W. MacAndrews, T. Page, G. Sayre, E. Tull, Mrs. M. Widdershoven, C.K. Wilson, J. Wilson (compiler).

Cambridge-Narrows (C-N)

Cloudy with flurries; crusty snow, 10 cm in open fields, 20 cm in woods; lakes frozen, brooks open.

Mrs Sheldon Appleby, Mrs Harold Belyea, Mrs Harry Belyea, Earl Brooks, Mrs Vernon Connell, D.G. Carpenter, Mrs Kenneth Carpenter, Mrs Lawrence Carpenter, Mrs Bruce Chase, Enid Inch (compiler), Mrs William McConnachie, Mrs Arthur Perry, Mrs John Perry, Mrs Hazen Pugsley, Mrs R.G. Robinson, Mrs Ernest Sypher, Mr & Mrs Niven Thorne, Nelson Thorne.

Jemseg (JEM)

Light snow a.m., sunny p.m.; 30 cm snow cover, most water frozen.
Christopher Adam, Lucy Dyer, Gordon Foote, Clifford Jones, Melvin Moore, Nettie Moore, David Noble, Robert Palmer, Marvin Palmer, Peter Pearce (compiler), Robert Power, Owen Washburn, Sheila Washburn.

Fredericton (FTON)

Cloudy, becoming clear: 20 cm complete snow cover, up to 50% open water.
Chris Adam, Walter Adams, Mildred Barnes, B. Bauer, Pearl Blenis, Gerry Clayden, Stephen Clayden, Mrs C.E.J. Cragg, D'Arcy Currie, D. Duffie, Donald Fowler, K. Fowler, Bill Garratt, Ellen Gregg, Mrs J. Griffiths, Harold Hatheway, Marguerite

McNair, Nettie Moore, Albert Morais, David Noble, F.S. Oliver, Robert Palmer, Thelma Pieroway, T. Rhinelander, Blanche Robertson, Murray Sargeant, B.J. Schneider (compiler), M.H. Schneider, Dr & Mrs Austin Squires, Rudy Stocek, Stirling Taylor, Bill Varty, Owen Washburn, S. Washburn, Maurice Wetmore, R. Wilson

Stanley (STAN)
Magnificent blue sky and sun!; 8-10 cm snow over old crust, springs and wet spots open.
Harold Hatheway (compiler), Reginald T. Hayes, John McKnight.

Woodstock (WSTK)
Clear with cloudy periods; 30 cm of snow, water frozen.
Mrs Blair Avery, David Bell, Sandy Briggs, Mrs Clinton Clark, Mrs G.F. Clarke, Ruby Clarke, A.B. Connell, Gerald Demmings, Lucy Dyer, Mrs Hans Epstein, Mrs Nelson Flewelling, Mrs David Fry, Marjorie Gray, Mrs Keith Helmuth, Ken Homer, Stephen Homer, Murray Hubbard, Lucy Jarvis, Mrs W.M. Jones, Donnie Kimball, Bill Nelson, Mrs Donald Nixon, G.A. Olmstead, Eric Randall, R.J. & Donna Speer, Robert Speer (compiler), Mrs Robert Speer, Mrs C.H. Stewart, Mrs Donald Stewart, Mrs Charles Webb, Helen Weld, Eric & Jane Hadley.

Hartland (HART)
Hazey; water completely frozen, several feet of snow.
Michael Rigby, Donald Kimball (compiler), Merritt Kimball, Florence Britton.

Perth-Andover (P-A)
Cloudy with snow flurries; 38 cm snow cover, rapids open.
Barbara Baird, Ellsworth DeMerchant, Erwin Landauer, Fred Tribe, Doug Underhill, Murray Watters (compiler).

Plaster Rock (PR)
Heavy snow, poor visibility.
Doris Crawford, Sally Davidson, Erwin Landauer, Marion Landauer, Laverne Rabatic (compiler), Emmie Reed, Laura Reynolds, Melissa Skinner.

Nictau-Riley Brook (NIC)
Clear; 20 cm snow, river frozen with some open stretches of water.
Mr & Mrs Alex Fraser, Mr & Mrs Ralph Howard, Erwin & Jeff Landauer, Rose MacCallum
Mr & Mrs John McCarty, Bill Miller, Wilma Miller (compiler), Rudi & Elizabeth Richter, Blake & Margaret Sutherland.

Mount Carleton Provincial Park (MtC)
Cloudy with sunny periods; 33 cm snow, running water open.
Erwin Landauer (compiler), Rudi Richter.

Edmundston (ETON)
Clear with occasional snow flurries; ground frozen with snow and ice, about $\frac{3}{4}$ mile stretch of St. John River open.
Tom Clair, Mae Hicklin, Peter Hicklin (compiler).

	E F	E C	S A	N H	E P	S J	I N P B S A U K	T O Z	U T	K P A	M R L A C U S	H O Z	F O Z	W T K	F A R	P A R	N I C	K A C E D O N	TOTAL	
Common Loon #	3	27	5		10	*				1										48
Red-throated Loon		1					3													5
Red-necked Grebe		5				3														8
Horned Grebe	2	27	4		1															44
Great Cormorant	3	53	2						1											60
Great Blue Heron		1					1													2
Canada Goose								*	1		1	*								2
Mallard	4	15			15		1	1	10											46
Black Duck	227	155	12	61	343	15	195	2	27	13			2	*	16	3			1173	
Pintail										*					1					*
American Wigeon															1					1
Greater Scaup	4	82			40															126
Common Goldeneye	176	15		25	29	2	5	1	107	14		6	*	3	116		4	14	3	784
Barrow's Goldeneye					4															4
Bufflehead	353	76		24	37	1	*													498
Oldsquaw	1	403	5	20	6				420	102		18								975
Common Eider #	2	54	85	14	45		3		12	3		1								1986
White-winged Scoter		61	119		2	*			5											187
Surf Scoter	3	37	376		1	3														420
Black Scoter		4	7	2	3				1											17
Hooded Merganser			1																	1
Common Merganser	12	3	1	30	2	25	26	11	3	2		24		99		11				239
Red-breasted Merganser	1	69	2	18	39	2		3	23			2								157
Goshawk		1		*	1	2		1												7
Sharp-shinned Hawk			1	*	*	1		1		1										5
Cooper's Hawk x			1				1			*			1		1					1
Red-tailed Hawk													1							1

	B F	E C	S A	P E N P	E P J	S J	F N P	A L B	S ACK	M T N	C T	K N P	M I R	L A M	S U S S	H T O N	C N	J E M	E T O N	S T A N	W S T K	N A R T	P A R C	P A R C	N I C C	M T. C	E T O N	TOTAL
Hairy Woodpecker	2	1	1	1	14	4	3	2	2	1	2	2		7	10	10	11	15	7	4	4	11	10	1				125
Downy Woodpecker	2	2	1	1	18	2	1	*	5	3		2		5	6	9	12	17	9	2	8	15	8				128	
Blk-backed 3-toed Wdpkr.				*																						*		
Northern 3-toed Wdpkr.																										1	1	
Horned Lark		2			3		*	20		1																26		
Gray Jay				5	5	11	14	2	2	8	5	2		8	3	6	2	4	3	14	18	5				117		
Blue Jay	13	32	7	3	58	27	21	77	69	60	4	119	9	47	83	73	73	135	14	91	12	25	46	61	2		1161	
Common Raven	58	9	*	58	40	22	43	107	157	59	23	47	8	120	150	93	89	120	3	41	65	90	30	49	3	2	1486	
Common Crow	112	64	39	151	210	5	13	110	50	36	25	14	25	5	9	7	9	121	26	18	1				7	1061		
Black-capped Chickadee	46	77	29	41	205	26	29	64	94	47	82	59	4	57	105	94	79	210	76	28	27	84	91	9	5		1668	
Boreal Chickadee	8	1	1	20	2	5	13	17	10	11	7	2	1		4	3	4	6	4	2	3		17	12		153		
White-breasted Nuthatch	4		1				3		*		3	*		1		1	1	2		3						18		
Red-breasted Nuthatch				1	4	3			2	2	1	1				7										22		
Brown Creeper				1			2	2						1	2											8		
Winter Wren												*														*		
Northern Mockingbird #					2		*			11		11															5	
American Robin	1	*	*	1	*	2	*		*	*	*	*		1	*	1		1	1	1						8		
Golden-crowned Kinglet	1			10	3	7	13	18	24	23			5	2	1									1	108			
Bohemian Waxwing #	60			12			65		10		23		160			12									342			
Cedar Waxwing x													3													3		
Northern Shrike #	5	*	1	2	2	3	1	2	3	1	1	2	4	8	1	3			*						39			
Starling	253	144	22	72	3	2	10	229	146	961	163	38	175	212	200	172	32	31	166	95	32	24	22	10	29		7050	
House Sparrow	20	61	19	17	314	11	294	904	108	187	*	875	69	200	75	148	34	731	34	248	17	62	183	70	481		6135	
Red-winged Blackbird				1	1	3		1	1		1	11			7		5			11					10			
Rusty Blackbird ## x																										12		
Common Grackle	1	*	4	15		1	2	3		6	1		4	3	2		4	3		1					41			
Brown-headed Cowbird	*			26	2	7	3	1					4	3	2					7					55			

	B	E-	S	P	L	S	F	A	S	M	C	K	M	L	S	H	T	C-	J	F	S	W	H	A	P	P	N	M	E	T			
	E-t.	N	E	N	L	A	N	L	C	T	O	N	I	A	S	T	T	E	T	S	T	S	T	R	A	P	P	I	t	C	C	N	TOTAL
	F	C	A	N	P	J	P	B	K	N	T	P	R	M	S	N	N	M	N	N	K	T	A	R	C	C	N	W	239.4				
Hours on foot/by boat(w)	2 ³ / ₄	2	3	2	8 ¹ / ₂	27	?	15 ¹ / ₂	21.8	18	22.9	29	19	1	3	5	4	7	?	1 ¹ / ₂	6	4	1	4	22	11	1	2 ³ / ₄	239.4				
Hours by snowmobile/car	-	25	21	4	8 ¹ / ₂	19	?	9 ¹ / ₂	2.5 ⁵	16	30.3	11	10	7 ¹ / ₂	6	18 ¹ / ₂	12 ¹ / ₂	22 ¹ / ₂	?	4 ¹ / ₂	24	6	13	3 ¹ / ₂	8	-	6 ¹ / ₂	2 ¹ / ₂	312.5				
Total party-miles	42	147	130 ¹ / ₂	12	152 ¹ / ₂	268 ¹ / ₂	236	204 ¹ / ₂	292.6	250	244.3	215	37	94 ¹ / ₂	63	293	115	248	251	54 ¹ / ₂	204	54	80	84	73	11 ¹ / ₂	88 ¹ / ₂	4059.9					
Miles on foot/by boat	42	5	6 ¹ / ₂	2	5 ¹ / ₂	22	46	16 ¹ / ₂	37.5	20	30.4	32	17	1 ¹ / ₂	8	9	5	20	22	1 ¹ / ₂	8	6	1	6	22	17 ¹ / ₂	1 ¹ / ₂	42 ^w	370.4				
Miles by snowmobile/car	-	147	130	10	147	246 ¹ / ₂	190	188	155 ⁵	230	213.9	183	120	93	55	28+	110	228	29	53	196	48	79	73	50	-	87	155 ⁵	3632				
Date (Dec.17-Jan. 2)	20	26	26	2	17	27	17	31	19	18	17	29	26	27	17	2	28	2	26	31	26	?	26	28	31	17	26	(17-2)					
Time (Start/Finish)	130	0730	0830	0930	0715	0720	0745	0820	0735	0730	0725	0800	0800	0800	0900	0900	0845	0830	0800	0810	0915	0740	0845	0830	0800	0800	0800	0800					
Temperature Range(°C)	14/5	16/-10	17/0	17/0	17/0	17/0	17/0	17/0	17/0	17/0	17/0	16/30	17/0	16/30	16/00	16/00	16/45	17/0	16/45	16/30	15/23	16/55	17/0	16/30	17/10	17/0	16/30	16/30	-14/5-17/0				
Wind direction	0	-4	0	-11	-15	-8	-5	-1	2	-4	-10	0	-11	-6	-10	-3	-7	-10	-2	-2	-12	-7	-7	-10	-5	-8	-8	(-15 to +1)					
Wind speed (km/h)	NE	NW	-	NNE	W	?	NW	NW	?	NW	N	?	?	NE	?	NE	NNE	?	?	SW	-	W	?	-	?	NW	-	(0-48)					

	B	E	S	P	L	S	F	A	S	M	T	C	K	M	L	S	H	T	C	J	F	S	W	H	P	P	N	M	E	TOTAL	
	F	C	A	N	P	J	N	L	A	T	O	N	T	P	R	M	S	T	O	N	E	T	A	T	H	A	R	P	I	t.	O
Cardinal																															1
Evening Grosbeak	67	2	14		182	*	18	6	25	1	3		34	36	19	5	73	*	:	9	1								496		
Purple Finch																			24	4	13									48	
Pine Grosbeak #	11	7	25	7	51	82	20	30	21	17	60	10	407	101	258	10	47	11	12	7	3	8	2						1207		
Common Redpoll	136	*	167	225	128	45	12	412	89	10	67		57	347	195	20	52	75	8	13	157							2215			
Pine Siskin	5		20	3	45	2		11	1				1			12	1	1	10									112			
American Goldfinch	1	10	2	103	2	*	6						19			116													277		
Red Crossbill																													1		
White-winged Crossbill	4					1			2							7		1	*										15		
Grasshopper Sparrow							*																						*		
Dark-eyed Junco	1				7	15	2	1	7				1	6	14	1	1	3	1	1	1								61		
Tree Sparrow	18	19	11	32	65	44	5	7	14	9	2		4	88	34	45	69	1	30	6	10	5	1						519		
Chipping Sparrow x																													1		
White-crowned Sparrow																													1		
White-throated Sparrow																													12		
Fox Sparrow		*																											*		
Swamp Sparrow x																	2												2		
Song Sparrow	1	2						2	1				1	1															10		
Lapland Longspur										14																				14	
Snow Bunting	59		14	36	48	196	262	34	1	113	150	298	70	291	55	5	10	20	*	*									1663		
Unidentified	52 ^a	1 ^b	36 ^c		2 ^d	2 ^e	14 ^f	6 ^g	8 ^h	5 ⁱ	21 ^j	21 ^k	27 ^m	1 ⁿ															196		
Total birds	206	8686	3453	547	2165	5043	494	1131	3242	4811	7253	655	1203	891	928	1652	1084	1203	1358	13	873	255	464	461	371	57	718	49334			
Total species	15	55	46	22	48	52	34	40	42	40	37	23	29	21	25	31	23	24	44	7	20	18	18	21	18	11	11	96			
Extra species, count period	-	3	6	-	5	7	5	4	2	-	3	4	1	1	3	1	1	-	-	4	-	1	2	5	-	-	5				
Field observers/parties	5	14	8	4	4	4	15	19	8	11	9	13	11	15	2	3	3	6	22	11	1	4	4	3	5	8	2	8	246		
Feeder observers/reports	17	4	2	2	8	9	3-5	6-9	1	9	16	14	7	13	1	15	20	21	2	6	7	4	2	7	4	148	137				
Total party-hours	23	27	24	6	17	42	60	24	20	20	22	24	2	22	16	29	24	20	10	14	75	20	11	75	20	11	75	20			
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28			

Total species	13	22	46	21	48	32	37	44	14	40	61	1	-	-	4	-	1	2	5	-	5
Extra species, count period	-	3	6	-	5	7	5	4	2	-	3	4	1	1	3	1	1	-	4	-	1
Field observers/parties	5	14	4	4	4	15	19	8	11	9	13	11	15	2	3	9	6	13	22	3	13
Feeder observers/reports	1	4	4	2	2	8	9	3-5	6-9	6	8-10	5	6	1	2	3	3	6	11	1	4
Total party-miles	17	37	15	3	3	11	1	7	16	14	7	18	1	15	21	20	2	4	4	2	1

	B	E	S	F	L	S	F	A	S	M	C	K	M	L	S	H	C	T	F	G	W	A	P	N	M	E	TOTAL						
	B	E	S	F	L	S	F	A	S	M	C	K	M	L	S	H	C	T	F	G	W	A	P	N	M	E							
	F	C	A	N	P	J	P	B	K	N	T	P	R	M	3	N	M	N	K	T	A	R	C	C	N								
Hours on foot/by boat(w)	2	4	2	3	2	8	2	27	?	15	21	8	18	22	9	29	19	1	3	5	4	7	?	1	6	4	22	11	3				
Hours by snowmobile/car	-	25	21	4	8	2	19	?	9	2	25	8	16	30	8	11	10	7	6	18	12	22	?	4	24	6	13	3	8	2	312.54		
Total party-miles	42	147	13	1	12	152	2	285	2	236	20	1	292	22	4	3	215	37	79	63	292	115	248	25	54	204	54	80	84	73	17	281	4059
Miles on foot/by boat	42	5	6	2	5	2	22	46	16	2	37.5	20	30	4	32	17	1	8	9	5	20	22	1	8	6	1	6	23	17	1	2	370.4	
Miles by snowmobile/car	-	147	150	10	147	246	2	190	188	105	231	20	213	7	183	126	93	55	28	110	228	29	53	196	46	79	78	50	-	97	155	3632	
Date (Dec.17-Jan. 2)	20	26	26	2	17	27	17	31	19	18	17	29	26	27	17	2	28	2	26	31	26	?	26	28	31	17	26	(17-2)					
Time (Start/Finish)	0600	0730	0830	0930	075	0720	0745	0820	0735	0730	0725	0800	0640	0735	0800	0645	0830	0800	0800	0915	0700	0845	0830	0800	0800	0800	0800	0800	0800	0800			
Temperature Range(°C)	14	5	16	6	17	10	17	10	17	10	17	10	17	10	17	10	17	10	17	10	1645	1620	1523	1622	1700	1624	1710	1700	1645	1730			
Wind direction	NE	NW	-	NNE	W	?	NW	NW	?	NN	N	?	?	NE	?	NE	NNE	?	?	SW	-	W	?	-	?	NW	-						
Wind speed (km/h)	16	48	40	40	29	48	8	16	7	32	20	15	32	0	15	11	16	8	18	light	0-5	10	calm	0-24	light	0-3	(0-48)						
Number of previous counts	4	10	16	9	16	20	12	8	18	17	16	7	5	4	5	7	14	21	4	13	6	8	5	6	0	0	0						

Abbreviations & Footnotes

- * seen during count period
- # high count a provincial record
- ## first time on N.B. counts
- a 1 scoter sp, 8 duck sp, 43 large alcid sp.
- b 1 Accipiter sp.
- c 11 finch sp, 25 songbird sp.
- d 2 loon sp.
- e 2 woodpecker sp.
- f 14 songbird sp.
- g 6 songbird sp.
- h 8 finch sp.
- i 5 duck sp.

- j 1 woodpecker sp, 20 sm. finch sp.
 - k 21 finch sp.
 - m 27 not specifically identified
 - n 1 finch sp.
 - s by snowmobile
 - w by boat
 - x no details received, or details not entirely convincing.
 - 6 (no.underlined) count high
 - (No. boxed) count first
- Two preceding notations used only for areas counted 4 or more years.

BIRD QUIZ

Match up the numbered silhouette with the name and trait.



1.



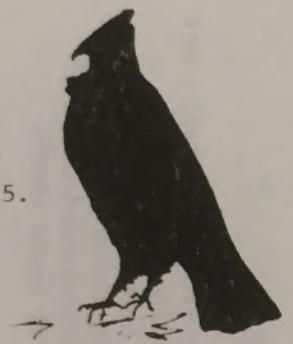
2.



3.



4.



5.

- Chickadee
- Brown Creeper
- Evening Grouse
- Ruffed Grouse
- Blue Jay

- Stores food in crevices of trucks and on branches of trees.
- Particularly adapted to feeding on seeds, the bills are strong enough to crack cherry pits.
- Grows small comblike projections on either side of the toes in the fall. This increases the surface area of the feet enabling them to act like snowshoes.
- Gets its name from one of its calls. This call it uses to locate the flock when it has strayed.
- When foraging for food this bird spirals around a tree as it travels up its trunk.

David Christie

Twenty-six Christmas Bird Counts were conducted this winter. Brian Dalzell organized the first count since 1975 at Grand Manan, one of our most interesting areas. On the other hand, for various reasons, the traditional Moncton and Lepreau counts did not take place.

A total of 317 participants, who were afield for 589 party-hours or reported from 114 feeders, counted 42,990 birds of 100 species (8 additional species during count period). While the number of species was up from 1977 all these figures were below average for the last five years.

Highlight was the flight of Evening Grosbeaks. Of several local high counts for that species, Fredericton's 478 is also a provincial record. Evening Grosbeak numbers per party hour in southern N.B. exceeded the highest previous Christmas (1976) figures by 23% and were over four times as high as the usual numbers recorded in 1969-75 and 1977.

Most waterbird totals were near the usual number although certain counts had low values. Some species probably were not yet concentrated in their favourite wintering areas because ice conditions were not severe. Indeed, inland Fredericton with three species of gulls and three of ducks had the highest count of Common Goldeneyes this year, 164. Perhaps that's why loons, grebes and Common Mergansers and to a lesser degree goldeneyes, scoters and Iceland Gulls were in somewhat lower than usual numbers overall. A provincial record number of Red-breasted Mergansers, 206, at Cape Tormentine placed that species' total well above the usual value. Barrow's Goldeneye and Razorbills were not seen on this winter's counts.

Waterbirds not regularly reported included the first ever Gannets (2 at Cape Tormentine), a record 70 Brant at Grand Manan, 2 Great Blue Herons (Grand Manan and St. Andrews), 5 Hooded Mergansers (Eastport-Campobello and St. Andrews) and 2 Belted Kingfishers (Fundy, Sussex). Unusual during count period were Canvasback at Fredericton and Purple Gallinule at Hammond River-Hampton and Fundy Park. The two gallinules found in a state of shock Dec. 27 had apparently been carried north from the Caribbean by a storm. One also reached St. John's, Newfoundland about the same time and at least four have been found in Maine.

Goshawk and Bald Eagle were the only hawks to be seen in greater than normal numbers. An unusual seven species of owls were reported but none were particularly numerous. Three Short-eared Owls are a good total. The Long-eared Owl at Grand Manan is only the second record for N.B. The Hawk Owl at Cape Tormentine is the first since 1973. The Barn Owl reported during count period at Plaster Rock was hunting during the day and may have been a Short-eared Owl.

Ruffed Grouse declined slightly from the numbers of the past four years but were still at a high level, while Ring-necked Pheasant numbers - primarily at Sackville - were about normal. No Spruce Grouse or Gray Partridge were reported.

Woodpeckers were recorded in good numbers this year including the highest ever number of Black-backed Three-toed - 11 at Fundy Park where many trees are in poor condition because of spruce budworm attack. The rarer Northern Three-toed was seen at Cape Tormentine and Newcastle-Chatham.

Gray Jay numbers were slightly below average but Blue Jays were as common as they were in 1974 which had been exceeded only by the 1972 counts. Raven numbers were average and Crows above the usual level of recent years. Both chickadees were up from the last two years to about normal levels, but nuthatches were very scarce. The Brown Creeper total was about average but almost all of them were seen on two counts, so that over much of the province they may be scarce. Golden-crowned Kinglet numbers were up to about normal levels.

Fairly good numbers of Robins were seen in several areas and there was a provincial record 95 at Eastport-Campobello. Bohemian Waxwings were found on five counts but the numbers were small. There were also 2 Cedar Waxwings and 2 Mockingbirds. An excellent supply of berries and fleshy fruits is available as food for these species this winter.

Northern Shrikes appeared in good numbers, equalling the flights of 1965 and 1977. Starling and Rock Dove numbers seemed about normal while House Sparrows were fewer than normal.

Blackbirds were generally scarce, only the Red-wing being seen in the usual numbers. Native sparrows were also scarce. Snow Buntings, however, were recorded in good numbers. The other open country birds were few, with just 4 Horned Larks seen and Lapland Longspurs only in count period.

Aside from the Evening Grosbeaks already mentioned, the only finches noted commonly were Goldfinches in southern N.B., Redpolls mostly in northern N.B. and Pine Grosbeaks throughout. Those flights were of moderate size compared to the big ones sometimes recorded. No Red Crossbills were seen.

Mourning Doves were found in good numbers along the Bay of Fundy for the fourth consecutive winter. The usual Yellow-rumped Warblers were in the coastal woodlots of the Cape Tormentine area. Despite several Cardinals in the Fredericton area this winter they were missed there on count day and seen only at St. Andrews and at Newcastle-Chatham, our northernmost record.

Other landbirds usually not here at Christmas were Flicker and Red-headed Woodpecker (an immature) at Sackville, 2 Tree Swallows, perhaps carried north by the gallinule storm, sheltering in a partly heated barn at Plaster Rock, a Ruby-crowned Kinglet at Saint John, 2 Eastern Meadowlarks at Pennfield, a Rose-breasted Grosbeak at a feeder at Eastport-Campobello and a Chipping Sparrow at Sackville. The Brewer's Blackbird at Pennfield has not been confirmed by additional observers.

The accompanying table lists the count results in order from the pelagic Bay of Fundy count and Grand Manan north along the coast to Ile Lamèque, then the inland counts from Sussex northwest to Edmundston.

Upper Bay of Fundy, N.B.-N.S. (BF)

Mostly sunny. Moderate seas. Peter W. Hicklin, Stuart I. Tingley (compiler).

Grand Manan Island (GM)

Overcast with intermittent rain. Snow in patches, 2-5 cm; fresh water mostly frozen. Brian Dalzell (compiler), Carl and Nancy Small, Mildred Small, Mildred Russell.

Eastport-Campobello, Me.-N.B. (E-C)

Clear, becoming partly cloudy. 5 cm. snow; freshwater frozen, salt open. Sid Bahrt, Glenna Bond, Mark Forsyth, Hurbert & Nellie Ross, William Townsend (compiler).

St. Andrews (St.A)

Clear, calm on land, windy on water. 45 cm. average snow cover; freshwater and some estuaries frozen. Steve Adamowicz, Mrs. Hollis Bartlett, J.M. Dadswell, Mrs. Fred Gonya, Donald Graham, Mrs. Donald Johnson, Mr. & Mrs. Kenneth Langmaid, Daryl Linton (compiler), Donald Linton, Mrs. Cecil Lowery, Willa MacCoubrey, Talbot Mais, George Miller, Tom Moffat, Mrs. Fred Nutter, Mrs. Donald Ross, Dr. & Mrs. Bev Scott, David Walker.

Pennfield (PENN)

Sunny. Snow cover 2 cm; high tide 1030 am. Mr. & Mrs. Lindsay Morehouse, M.C. Morehouse, Mrs. M.C. Morehouse (compiler), Mr. & Mrs. E.A. Nason.

Saint John (SJ)

Clear to partly cloudy. 15 to 20 cm. snow cover; lakes frozen, rivers 75% frozen. Clarence Beatteay, Charles Belyea, Helen Brown, David Christie (compiler), Florence Christie, Jan Dexter, Marjorie Duffy, Joyce Golden, Irene Gorham, Stan Gorham, Peter Hicklin, Cecil Johnston, Vivian MacDonald, Mrs. E.F. McIntosh, Maizie Melvin, John Morrison, Tom Page, Joan Pearce, Ron Pearce, Bob Parke, Eleanor Parke, Marg Patterson, Don Patterson, Allen Sellars, Joan Sellars, Marion Sherwood, David Smith, Evan Smith, Reg Smith, Stu Tingley.

Fundy National Park (FNP)

Snow flurries, clear. 15 to 40 cm. snow cover; freshwater frozen, saltwater open, brackish water clear. Jean Buchanan, Freda Butland, David Christie, Henrik Deichmann (compiler), Joanne Deichmann, John Gorman, Les Gray, Norma Gray, Alain Gros-Louis, Doris Hatt, Barry King, Mary Majka, Mieczyslaw Majka, George Sinclair, Marion Smith, Barry Spencer, Norman Wentzell.

Riverside-Albert (ALB)

Light fog with snow and ice pellets changing to rain. 30 cm. of snow cover; lakes and slow rivers frozen, brooks open, no sea ice. David Christie (compiler), Henrik Deichmann, Marion MacKinnon, Mark Majka, Mary Majka, Mieczyslaw Majka.

Sackville (SACK)

Mostly cloudy with intermittent snow flurries in early morning, becoming mostly clear by noon. Freshwater mostly frozen, saltwater open and heavily ice clogged; snow cover 0-8 cm. crusted and very icy. Peter Barkhouse, Myrtle Bateman, Paul Bogaard, Sandy Burnett, Tony Erskine, Peter Hicklin, Ron Hounsell, Bill Prescott, Al Smith (compiler), Stu Tingley.

Cape Tormentine (CT)
Overcast, becoming mostly sunny by 1300 hours. Ground mostly covered with 1 cm. of new snow over 8 cm. of older crusted snow cover, exposed areas being fairly clear and hollows drifted in; all freshwater frozen, salt water open with extensive ice flows and slush, especially from Murray Corner to Cape Jourimain. Peter Barkhouse, Paul Bogaard, Tony Erskine, Paul Germain, Peter Hicklin, Ron Hounsell, Gilles Morin, Marg Purdy, Al Smith (compiler), Ralph Stopps, Stu Tingley, Ian Walker.

Kouchibouguac National Park (KNP)

Overcast with snow/rain. 50 to 80 cm. of snow; freshwater frozen, saltwater partly open. Gilles Babin, Bernard Boudreau, Harry Collins, Albert Crossman, Eddie Daigle, Roger Daigle, Ronald Hall, Steve Knowles, Denyse LeBlanc, Robert LeBlanc (compiler), Carmel Lévesque, Marielle Morais, Maureen Newman, David Robichaud, Michelle Robichaud, Pierrette Robichaud, Ulysse Robichaud, Mike Savoie, Pauline Savoie.

Newcastle-Chatham (MIR)

Partly cloudy. All water frozen over, 45 cm. of snow on ground. Mrs. Percy Anderson, Jane Arsenault, Edith Boudreau, Mrs. Robert Bransfield, Colin Cadogan, Tim Clark, Mike Coster, Mrs. Graham Crocker, Phyllis Crowe, Thomas Flynn, Vernon Goodfellow, Hazen Loban, Irene Loggie, Sarah Lounsbury, Len McDonald, Nora McKenzie, Theresa Ross, Jack Scott, Mrs. Gordon Steeves, Doug Underhill, Mrs. Jac VanLeeuwen, Harry Walker, Ian Walker (compiler), Lyle Walker, Margaret Wheaton.

Ile Lamèque (LAM)

Sunny. 60 cm. snow cover. Hilaire Chiasson (compiler), Rose-Aline Chiasson

Sussex (SUSS)

A few snowflurries. Ground covered with 35 cm. of snow; water frozen. Tom Anderson (compiler), Mrs. Everett Arnold, Gladys Bickford, Gordon Bickford, Harriet Folkins, George Freeze, Mrs. Tom Harrison, Mrs. Walter MacLeod, Mrs. Lawrence McFarland, John Nicholson, Mrs. Hubert Robinson, Mrs. Ralph Robinson, Mrs. Walton Robinson, Wellesley Robinson, Mrs. Gerard Thompson.

Hammond River - Hampton (HTON)

Overcast with haze in am; sunny in pm. Snow cover 30-35 cm; most freshwater frozen. R. Barton, R. Blacquiere, D. Christie, D. Clark, P. Clark, L. Darling, R. Darling, Mrs. F. Holt, R. Jamieson, Mrs. P. Kelbaugh, Mr. & Mrs. D. MacAndrews, D. McAlpine, T. Page, G. Sayre, Mrs. G. Sayre, Mrs. M. Widdershoven, C. Wilson, J. Wilson (compiler), Mrs. Jean Wilson.

Cambridge-Narrows (C-N)

Cloudy, intermittent snow. 45 cm snow on ground; lakes and brooks frozen. Mrs. Shelton Appleby, Mrs. Harold Belyea, Mrs. Vernon Connell, Mr. & Mrs. Lawrence Carpenter, Miss Michelle Farris, Enid Inch (compiler), Doug Jackson, Mrs. William McConnachie, Mrs. Arthur Perry, Mrs. John Perry, Mrs. Hazen Pugsley, Mrs. R.G. Robinson, Mrs. Niven Thorne, Andrew Turnbull, Carl Urquhart.

Jemseg (JEM)

Overcast in a.m., sunny in p.m. 23 cm. snow; most water frozen. Daniel Bush, Enid Inch, Leslie Knight, Frances Moore, Melvin Moore, Nettie Moore, Peter Pearce (compiler).

Fredericton (FTON)

Cloudy, 2.2 cm. snowfall. 34 cm. snow on ground; river 50% open. Jean Allen, Pearl Blenis, Dan Busby, Gerry Clayden, Don Fowler, Kevin Fowler, Ellen Gregg, Harold Hatheway, W.E. Jarratt, Marguerite McNair, Nettie Moore, Albert Moraïs, David Noble, F.S. Oliver, Robert Palmer, Peter Pearce Mrs. John Peterson, Tony Rhinelander, Blanche Robertson, B.J. Schneider (compiler), M.H. Schneider, Stirling Taylor, Bill Varty, Dorothy Varty, Sheila Washburn, Maurice Wetmore.

Stanley (STAN)

Clear at start, clouded up. 30-50 cm. snow cover; open water in Nashwaak. Harold Hatheway (compiler), Reg. T. Hayes, John Macknight.

Woodstock (WSTK)

Light snow, occasionally sunny. 50 cm. snow cover; no open water. Mrs. Blair Avery, David Bell, Mrs. Clinton Clark, Lucy Dyer, Chris Flewelling, Mrs. David Fry, Mrs. Marjorie Gray, Eric & Jane Hadley, Ken Homer, Stephen Homer, Murray Hubbard, Lucy Jarvis, Mrs. Charles MacDonald, Gwen MacKinnon, Dr. G.A. Olmstead, Eric Randall, Robert and Donna Speer, Mr. & Mrs. Robert Speer (compiler), Mrs. C.H. Stewart, Mrs. Cecil Stewart, Mrs. Donald Stewart, Mrs. Charles Webb, Helen Weld.

Hartland (HART)

Overcast with drizzle and showers. 15 cm. snow cover in open, 75 cm in forest; river 85% frozen. Donald Kimball (compiler), other observers not listed.

Perth-Andover (P-A)

Snowflurries. 60 cm. snow cover. Erwin Landauer, Fred Tribe, Murray Watters (compiler).

Plaster Rock (PR)

Cloudy. Snow, 3-4 metres deep; some open river water. Doris Crawford, Sally Davidson, Irene Dionne, Erwin Landauer, Marion Landauer, Laverne Rabatich (compiler), Laura Reynolds, Emmie Reid.

Nictau-Riley Brook (NIC)

Cloudy. 61 cm. snow on ground; open Tobique River water. Marg Clark, Alex & Joan Fraser, Ralph & Gladys Howard, Erwin & Marion Landauer, Mrs. Mac MacCallum, Mr. & Mrs. John McCarty, Bill & Wilma Miller (compiler), Mr. & Mrs. Blake Sutherland.

Mt. Carleton Park (Mt.C)

Light overcast with flurries. 45 cm. snow cover; running water open; trees loaded with snow. Erwin Landauer (compiler), Regis Pitre, Rudi Richter.

Edmundston (EDTN)

Cloudy, light snow at times. 100 cm. snow cover; some open water (St. John River) at St. Hilaire and Saint Basile (1 km. total). P.W. Hicklin (compiler).

1978-79 Counts

	B F	G M	E C	S A	t. N	P P	S J	F R	N A	R K	S T	C P	K R	M R	L A	S M	H S	T O	C- N	J E	F T	S A	W S	H T	P A	P R	N I	M t	E D	T N	TOTAL
Common Loon	3	5	3	1	1							-																	13		
Red-throated Loon											2																		2		
Red-necked Grebe		4	1																										5		
Horned Grebe			12	5	1																								18		
Northern Gannet #												2																	2		
Great Cormorant	6	27	9	1	8	1																							52		
Great Blue Heron		1	1																										2		
Canada Goose						*						7																	48		
Brant #		7	2																										70		
Mallard		2	7		7	14	1	1	4											*									35		
Black Duck	14	534	274	5	228	16	169	6	12																			1288			
Greater Scaup	*	3	69	1																									73		
Common Goldeneye	20	2	104	38	143	*	2		47	*						20		164		8								558			
Canvasback																			*										*		
Bufflehead	11	173	100	25	45					1																		355			
Oldsquaw	1	47	38	23	71			1	732	43																		956			
Common Eider	6	9	613	6	7	5			18	1																		665			
White-winged Scoter	17	16	33																										66		
Surf Scoter			78																										78		
Black Scoter	*																												*		
Hooded Merganser		3	2																										5		
Common Merganser	2		11	5	74	1	10	1	11	1						15	1											161			
Red-breasted Merganser #	22	7	74			20			206								3	11											329		
Goshawk						*	2	1	1							1	2	*											12		
Sharp-shinned Hawk		2	11			*	*	*		1						1	2	*											5		
Red-tailed Hawk			1	*	1											1	*	11	1									8			
Rough-legged Hawk	2		11			2	1	1								1	2	1	*	2	1	*						19			

Common Merganser																					
Red-breasted Merganser	#	22	7	74		20		206													329
Goshawk					*	2	1	1		3	11		1	*		111	111	111	111	12	
Sharp-shinned Hawk					*	*	*		1	1	2	*								5	
Red-tailed Hawk					2	11	1		1	1	2									8	
Rough-legged Hawk					2	1	1	1	1	1	2	1	1	2						12	

1978-79 Counts	B	G	E.	S	P	E-	S	F	R	C	K	M	L	S	H	C-	J	F	S	W	H	P-	P	N	M	E	D	T	TOTAL
	F	M	C	A	N	J	P	A	K	T	P	R	M	S	T	N	E	T	O	A	T	A	R	C	I	t	C	N	
Common Flicker									1																				1
Pileated Woodpecker								3						3			1	1	*	2		1	*	3	*			14	
Red-headed Woodpecker									1																				1
Hairy Woodpecker	5	2	6	7	2	2	4	11	*	4	11	3	10	10	7	15	12	3	1	1	14	9	*				118		
Downy Woodpecker	1	4	7	1	15	14	3	7	*	1	11	10	15	4	5	20	10	1	2	10	6	2	*				139		
Blk-backed 3-toed Wdpkr. #							11	1	1						*	3	1	1	1	1	1	1	1	1				19	
Northern 3-toed Wdpkr.									1		1																		2
Horned Lark	*									*	2	2																	4
Tree Swallow ##																													2
Gray Jay			5	4	18	3	3	14	4	10		6	5	4	6		1	5	13	20	10						131		
Blue Jay	12	21	81	4	35	45	7	63	52	5	41	3	61	181	103	80	166	17	114	6	34	91	71	3	24		1370		
Common Raven	34	28	20	33	41	19	87	100	19	69	9	28	106	112	45	92	1	69	21	125	90	79	5	6			1238		
Common Crow	29	172	215	77	134	9	5	104	81	7	3	47	8	29	10	17	25	2	30	60	3	11					1200		
Black-capped Chickadee	22	10	27	22	137	44	10	66	103	20	42	2	72	132	108	65	251	4	60	21	6	73	43	11	9		1426		
Boreal Chickadee	9	3	3	9	35	6	27	34	3	5	3	9	4	3	9								13	13	2		191		
White-breasted Nuthatch			1			2						1					*	2		2							8		
Red-breasted Nuthatch	2					4	1	1				2			2		*		2								12		
Brown Creeper						1	1	6				1															15		
Northern Mockingbird	1					1											*											2	
American Robin #	8	95	7	5	3	3	7	7	2			1	1	1	11	1	*										152		
Golden-crowned Kinglet	11					7	19	15	21	24			1	1	11											110			
Ruby-crowned Kinglet						1					11	9							24		1						1		
Bohemian Waxwing																												36	
Cedar Waxwing x																												2	
Northern Shrike	4	2			2	*	3	5	8	*		3	1	2	2	*	1	1	1	1	1		x			33			
Starling	340	374	148	39	70	30	68	335	124	25	84	168	450	227	33	7	963	132	31	34	26					5538			

1978-79 Counts	B F	G M	E c	S A	P N	E J	S P	R A	A C	C T	K P	M R	L A	S U	H S	C N	G M	F T	T O	S T	W A	H K	P T	P A	N R	M C	E D	T H	TOTAL
House Sparrow	115	31	55	3	332	20	82	970		171	*	451	2	290	149	24	193	324	5	296	3	6	163	64	231	4045			
Eastern Meadowlark				[2]		*																				2			
Red-winged Blackbird	3	[4]			*	1	1			*			*		*		4	2	[5]							25			
Northern Oriole					*																					*			
Rusty Blackbird					*								1													1			
Brewer's Blackbird	###	x				[1]																				1			
Common Grackle	4		1	*	2	1				2		1			2	3			3		2			1	22				
Brown-headed Cowbird	30	11	*	5	1	8	2						10	*		6									73				
Cardinal				1						[1]				*												2			
Rose-breasted Grosbeak	##			[1]																						1			
Dickcissel				*																						*			
Evening Grosbeak	#	35	176	73	52	220	160	*	97	19	*	198		112	156	110	67	472	2	148	27	*	108	26		2374			
Purple Finch					*				3											14		7				24			
Pine Grosbeak			1		8	20	2	9	54	14	17	9		193	43	27	41	14	56	1	*	19	43	2		769			
Common Redpoll	*	4				52	*		40	50	26			1	156	41			15	5	100	31	109	55		764			
Pine Siskin	9			2	8	24			12			9			[56]	1									12		133		
American Goldfinch		74	65	32	*		2						18	140	3	6	62			4						406			
White-winged Crossbill		27	*		4										*		*									33			
Dark-eyed Junco		5	12		32	25	9	4	18				6	8	8	19									4	156			
Tree Sparrow		7	12	3	6	10	7	10	5	15	3			71	43	13	49		7	*		3				264			
Chipping Sparrow									1																	1			
White-throated Sparrow		8		2	1	1	7							1		6										26			
Fox Sparrow			2	3			1																			1			
Song Sparrow														2	*	2	3		1							15			
Lapland Longspur	*					*																					*		
Snow Bunting		45			150	10	295	33	146	198	136	15	35	10	137	65	2	*	120		45	*		1	2742				
unidentified		42				16	1		2			60	4	34	143	2				1					310				

1978-79 Counts	B	G	E-	S	P	E-	S	F	R-	S	C	K	M	L	S	H	C-	J	F	S	W	H	P-	P	N	M	E		
	F	M	C	A	N	J	P	A	K	T	P	R	M	A	S	T	O	E	T	S	T	A	R	C	I	D	T	C	N
Total birds	172	4460	524	7226	7226	524	643	812	5028	245	117	33	506	138	138	929	704	345	107	158	356	371	755	505	105	221	42990		
Total species	14	48	44	42	26	46	40	31	44	47	18	26	16	20	32	24	26	39	10	22	25	15	26	18	11	11	100		
Extra species, count period	-	7	-	2	1	4	12	6	2	-	6	4	1	-	4	5	2	9	-	6	3	3	4	1	1	3	8		
Date (Dec. 16-Jan. 1)	30	17	27	30	29	30	16	1	18	16	28	23	30	28	31	27	16	26	31	26	26	26	29	31	20	28	(16-1)		
Time (Start & finish) AST	1050	730	830	400	730	715	745	200	725	715	800	200	800	200	645	715	750	?	900	230	830	830	900	230	200	220	(645-1730)		
Field observers/parties	2	4	6	5	6	14	15	6	10	12	19	9	2	2	13	9	5	18	3	11	4	3	7	5	3	1	194		
Feeders(observers/reports)	1	12	12	15	2			1	16		13	7	7	6	2	10	15	4	1	3	6	9	5			123	114		
Total party-hours	2.15	13	19.5	17	9	35½	64	15¼	58	65.2	56	22½	9	6	30½	22½	15½	41.3	6	14	11	8	10½	15	15	7	529		
Hours on foot, or by boat(w)	2.15	6	2	6	3	18½	48	9½	30	43.6	44	10	1	4	8½	4	2½	5	1	4	8	4½	7	13	½	214+223.1			
Hours by car, or snowmobile(s)	7	12.5	11	6	17	2½	14	6½	27½	22.2	12	12½	8	2	22	18½	13	36.3	5	10	3	8	6	8	2	6½	5+301.5		
Total party-kilometres	69	109	26.2	144	49.6	53.2	483	182	504	126	352	254	17.2	24	382	251	260	22	255	91.2	144	100	138	64	152	5943.6			
Km on foot, or by boat(w)	69	6.5	3.2	12.2	1.6	21	85	16.2	62.4	75.2	67.2	16	1.6	8	17	11	10	27	5	12	14.4	6	16	21	2	72.5+538.7			
Km by car, or snowmobile(s)	1025	243.2	131.2	48	47.2	366	122.2	11.6	33.5	128.8	238	12.6	16	365	240	250	83	243	76.2	144	94	122	43	150	32+5320.4				
Temperature range (°C)	-1	0	-11	0	-6	-9	-3	0	0	-2	-2.5	-1.4	-0.5	-1	-5	-4	-7	-0.3	0	-2	-1	0	-8	-4	-10	-4	(-19 to +7)		
	7	-3		-1	4	6	-3	7	1.5	-4					-2.5		2	2	4				6						
Wind direction	WW	SE	NN	-	N	N	W	SW	SW	W	NNN	?	?	-	?	?	SSW	NNN	?	N	?	?	?	-					
Wind speed (km/h)	15-48-	48-	64-	16	64	56	10-	4	20-	5-	0-	9-	1-	0-	calm	0-	16-	calm	0-	calm	4	2	3	22-	8	8/3	(0-64)		
Number of previous counts	5	7	11	17	10	21	13	9	19	17	8	6	9	5	6	8	15	22	5	14	7	9	6	7	1	1	-		

Abbreviations & Footnotes

- * seen during count period
- # high count a provincial record
- ## first time on N.B. counts
- a 41 large alcide, 1 loon sp.
- b 1 duck sp., 14 songbird sp.,
1 Buteo sp.
- c 1 owl sp.
- d 2 songbird sp.
- e 60 duck sp.

- f 3 woodpecker sp., 1 bird sp.
- g 1 woodpecker sp., 30 finch sp.,
1 bird sp.
- h 1 woodpecker sp., 140 finch sp.,
7 bird sp.
- i 2 unidentified
- j 1 hawk sp., probably Buteo
- k by snowmobile
- l by boat
- m no details submitted, or details

- 4 (number undlined) highest total for area
- 1 (number boxed) first record for local count area
(Preceding two designations for areas counted four or more years)
- z includes blackbird sp.

Book Reviews

A Guide to North American Bird Clubs
Publisher (1978) Avian Publications Inc.



Travelling? If so and you want to do some birdwatching this hard-cover guide will be a useful aid. It lists over 835 bird-related organizations in Canada, the U.S.A., Central America and the West Indies, giving their addresses and information on publications, meetings and field trips as well as listing favorite birding areas and phone numbers of local contacts. The book seems very complete. Buy it and the next time you're in Dawson Creek, B.C. phone up Don Johnson (782-3400) for local information on birds, or on the third Wednesday of the month drop in at Crescent Park School at 7:30 p.m. for the meeting of the Timberline Trail & Nature Club.

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David Christie

Birding News Survey

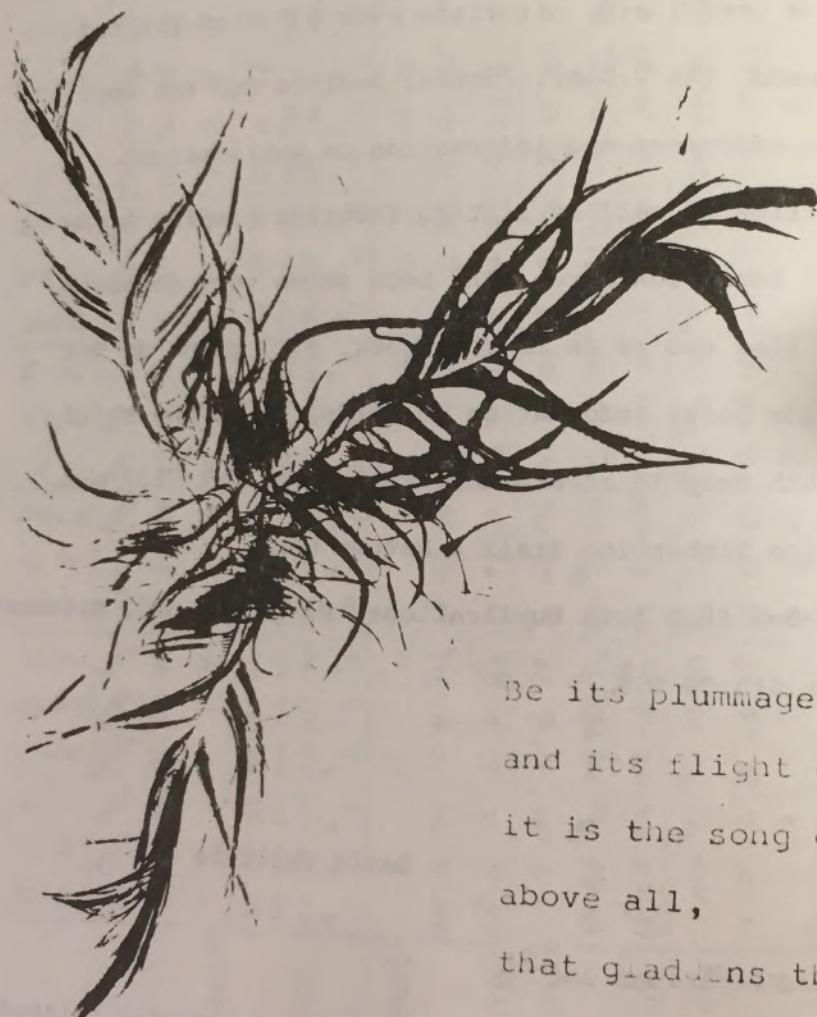
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Birding News Survey (cont'd)

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David Christie



Be its plummage ever so beautiful
and its flight ever so marvellous,
it is the song of the bird,
above all,
that gladdens the hearts of men.