

## THE 1956-1957 INVASION OF THREE-TOED WOODPECKERS

BY J. DAVID WEST AND J. MURRAY SPEIRS

THE fall-winter period of 1956-1957 was highlighted by a major flight of Black-backed Three-toed Woodpeckers (*Picoides arcticus*) and Northern Three-toed Woodpeckers (*Picoides tridactylus*) into southeastern Canada and northeastern United States. Southern Ontario and New England were the principal regions involved, although reports were received from an area extending from Minnesota to the Maritime provinces. The flight was undoubtedly the heaviest on record, at least for southern Ontario, where many observers saw one or both of these usually rare birds for the first time.

Prior to 1956, in southern Ontario, individual Black-backed Three-toed Woodpeckers had been noted in the Toronto region nearly every winter. Minor flights, involving perhaps half a dozen birds, had occurred during a few winters. The Northern Three-toed Woodpecker had been reported from the Toronto region only twice prior to the winter of 1956-57. A bird collected in November, 1901, at Well's Hill is in the Royal Ontario Museum; and a second was seen by R. H. Ivor at Erindale on November 17, 1942.

### ACKNOWLEDGMENT

We thank all who assisted with records and other information for this paper, and particularly Mrs. Ruth P. Emery, of Boston, Massachusetts, and Mr. James L. Baillie, of Toronto, Ontario, for New England records and for Toronto and Ontario records, respectively. Others who assisted materially were Dr. W. Earl Godfrey, of Ottawa, Ontario; Dr. W. W. H. Gunn, of Toronto, Ontario; Mr. Fred T. Hall, of Buffalo, New York; Mr. Peter J. Hamel, of Hamilton, Ontario; Mr. Christopher M. Packard, of Brunswick, Maine; Mr. Frank R. Pammett, of Peterborough, Ontario; Mr. Chandler S. Robbins, of the U.S. Fish and Wildlife Service, Laurel, Maryland; and Abbé René Tanguay, of St. Anne de la Pocatière, Quebec.

### FLIGHT OF NORTHERN THREE-TOED WOODPECKERS

No fewer than eight of these rare woodpeckers were reported from the Toronto region during the winter of 1956-57. The first was found on November 11 at West Hill, scaling the outer bark from the upper branches of a huge elm tree by the side of Highland Creek. A Black-backed Three-toed Woodpecker was working over the same tree, and several observers had the good fortune of seeing both at work side by side. Another which attracted much attention turned up at Glendon Hall, an estate willed to the University of Toronto and within 15-minutes driving time of the main campus. A fine male, discovered at Agincourt on December 30, remained for several weeks, was seen by many observers, and was much photographed. It was subsequently caught by R. R. Taylor, banded, and released.

Most of the reports of the Northern Three-toed Woodpecker in New England were from within its regular range in Maine. However, three were seen in Massachusetts: a pair at Rowley between January 28 and March 31; and a single bird at Milton, in the Boston area, on May 7, one of the late records of this species.

A female Northern Three-toed Woodpecker was seen on December 27, at Genesee Valley Park in New York State. The same bird, possibly, was seen again at Winslow Road, two miles away, on May 11, 1957. This species is decidedly rare in New York State. At Ithaca, it has been observed only once or twice in the past 50 years. A pair was recorded at Raquette, in northern New York, excavating in a spruce on June 10, 1957.

The only report from Michigan was of a specimen collected in the Upper Peninsula in early February, the first taken in the state in many years.

Eight records of this species were received from Quebec, between November 1 (at St. Foy) and May 20 (at Giffard). Both localities mentioned are in the Quebec City area.

From the whole region considered in this report, a total of 59 records of the Northern Three-toed Woodpecker was received (Table 1; Fig. 1). Of these, 28 were from Ontario, only one of which was from within its regular range. There were 16 records from New England, of which four were outside its regular range. The earliest report was on October 28 at Kingston, Ontario, and the latest on June 20 at Pinery Park, Lambton County, in southwestern Ontario.

Seven Northern Three-toed Woodpeckers were reported on the 1956 Christmas counts.

#### FLIGHT OF BLACK-BACKED THREE-TOED WOODPECKERS

About five Black-backed Three-toed Woodpeckers were reported for every Northern Three-toed Woodpecker. The total was 293 (compared with 59 Northern), of which 114 were from Ontario and 98 from New England. (See Table 2 and Fig. 2.) There were 32 reports from Quebec, two from New Brunswick, and one from Nova Scotia. New York State had 38 reports, and single birds were reported from New Jersey, Pennsylvania, and Minnesota. Illinois and Wisconsin each reported two, and three reports came from Michigan.

The most southerly records are from Culver's Gap, New Jersey, where one was reported on October 22; Point Pelee, Ontario, October 27; Rockford, Illinois, December 9; Pymatuning Reservoir, March 23 (the first record for western Pennsylvania), and Mill Neck, Long Island, in mid-February. The two seen in Wisconsin, one on October 28 and the other on November 25, were the first reported to the Wisconsin Society for Ornithology since 1951.

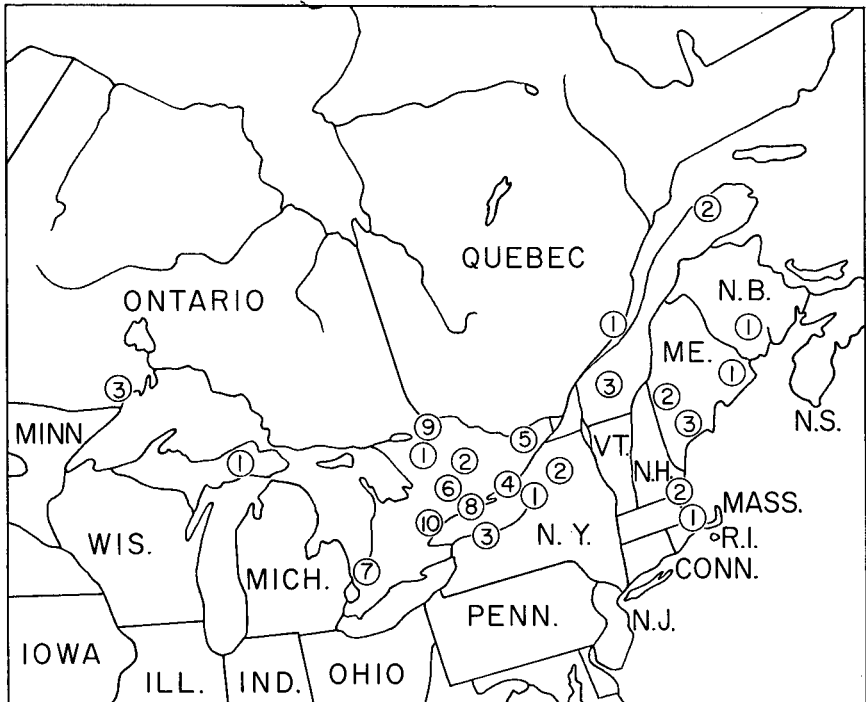


FIG. 1. Records of the Northern Three-toed Woodpecker. Places or areas in each state or province from which records were received are numbered and are listed chronologically in Table 1.

The earliest report received was from Ste. Felicité, Quebec, where a family group of five was seen on August 8, 1956. This, however, was prior to the flight proper, which was first noted (also in Quebec) at Quebec City, where one was seen on September 8 and two on September 22. Another early September report was from Brier Island, Nova Scotia, where a female was banded by Harrison F. Lewis.

The first Ontario report, on September 25 at Barrie, was followed by reports from Commanda, Toronto, and Kingston, in early October. Numerous observations followed, up to early December; they then tapered off sharply, but birds were reported every month up to June 2, at Pickering, in the Toronto area.

The first New England record was at Monhegan Island, Maine, on September 26. On September 29, a specimen was found dead at Haverhill, the first record of this flight for Massachusetts. Of a total of 56 records received from this state, most were in the eastern section. One of the Massachusetts birds

## THREE-TOED WOODPECKER INVASION

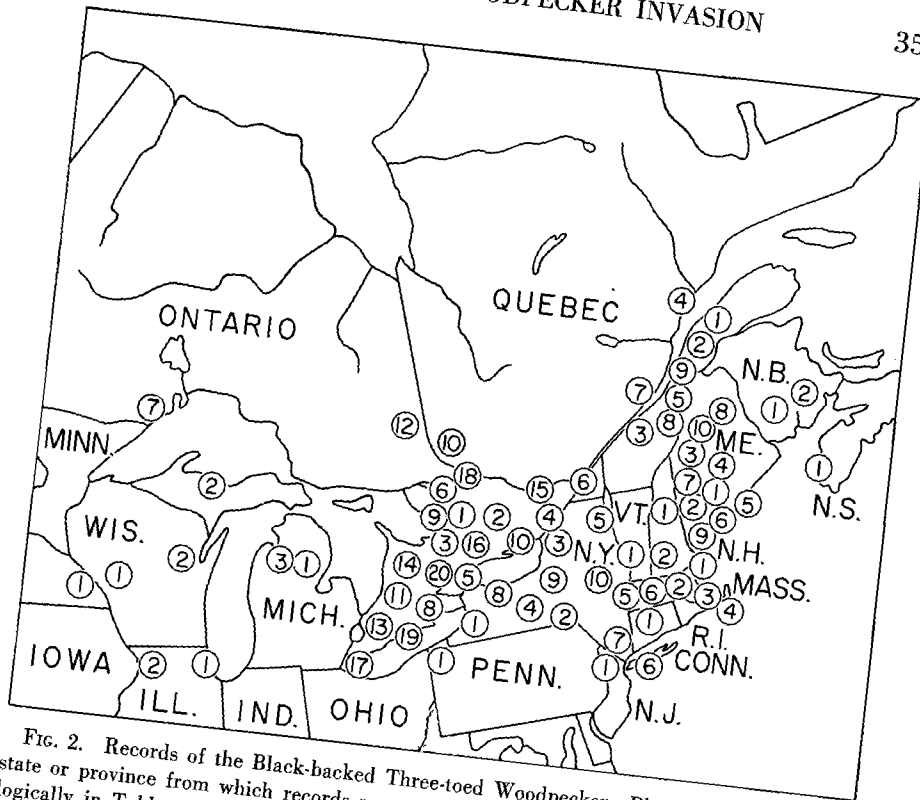


FIG. 2. Records of the Black-backed Three-toed Woodpecker. Places or areas in each state or province from which records were received are numbered and are listed chronologically in Table 2.

was reported from Nantucket, 30 miles off the southeast coast. A bird at Hyde Park, south of Boston, on August 10, 1957, apparently was a left-over from the flight. This was the latest report received from any locality in the flight area. Previously, a major New England flight occurred in the years 1923-1926. Only five records of the species were obtained in the intervening years by the Massachusetts Audubon Society.

The first New York State report was on October 11 at Chenango Valley State Park, and the first for western New York, at Wilson on October 20. Thirty-eight reports were obtained from New York, the Genesee Valley region being the most productive. The normal occurrence of this species at Rochester is one bird every five to ten years.

Thirty-one Black-backed Three-toed Woodpeckers were reported on Christmas counts, including eight at Toronto and five at Rochester. A great many of the reports stated that individuals of both species were seen on elm trees. In the Toronto region they worked over the elms as high

up as scaly bark was available. This they chipped off, revealing the fawn-colored inner bark. The report from Buffalo, New York, suggested that the attraction may have been the *Scolytus* beetle, a vector of Dutch elm disease.

The heavy flight of Black-backed Three-toed Woodpeckers of 1923-24 in New England was fully reported by Josselyn Van Tyne (1926. *Auk*, 43:469-474). He attributed it to a big population built up in eastern Canada and Maine, resulting in part at least from the activities of the spruce budworm, which had devastated large areas in those regions between the years 1909-1914. Subsequent tree mortality was heavy and was apparent as late as 1924. The dead trees provided ideal conditions for bark beetles and borers, upon a diet of which the three-toed woodpeckers flourished and increased.

The disastrous forest fires of 1955 may have been a contributing factor in bringing about the 1956-1957 flight.

TABLE 1  
NORTHERN THREE-TOED WOODPECKER RECORDS

Map Reference No.	Locality	Date	Observers	Number (Sex if given)
1	MAINE Charlotte	March 1	A. E. Davis	1
2	Franklin County Langton Township	Nov. 11 Nov. 12 Feb. 26	Emery Emery Townsend	2 8 1
3	Eustis Sidney	Nov. 10	Emery	1
1	MASSACHUSETTS Milton	May 7	Charles Ewing	1
2	Rowley	Jan. 28-30 Feb. 2-March 31	Mrs. C. de Windt, <i>et al.</i> <i>vide</i> Ruth P. Emery	1 ♀ 1 ♂
1	MICHIGAN Luce County McMillan Township	Feb. 3	Robert S. Butsch	1 ♂ (specimen)
1	NEW BRUNSWICK Fredericton	Nov. 2	W. A. Squires	1
1	NEW YORK Fisher's Landing	March 10	Allen	1
2	Raquette	June 10	Roberta Seamen, <i>et al.</i> ( <i>Audubon Field Notes</i> , Aug., 1957)	2
3	Rochester area Genesee Valley Park Winslow Road	Dec. 27-March May 11	Muchmore, <i>et al.</i> Starling, Bruner	1 ♀ 1 ♀
1	ONTARIO Algonquin Park area Lake Sasajewan Huntsville Bella Lake	Nov. 3 Dec. 23 Jan. 3	C. Gibson R. J. Rutter C. N. Ireson	1 2 1 ♂
2	Bancroft area McGarry's Creek Bancroft	Jan. 13 Feb. 9	D. E. Scovell D. E. Scovell	1 ♂ 1 ♀

TABLE 1 (Continued)

Map Reference No.	Locality	Date	Observers	Number (Sex, if given)
3	Fort William	Dec. 30	Keith Denis	1
4	Kingston area Bedford Mills	Oct. 28 Nov. 10	Arthur Bell Alden Strong	1 ♀ 1 ♀
5	Ottawa area Almonte	Late Nov. Dec. 2	acc. to W. Earl Godfrey W. Earl Godfrey	1 1
6	Peterborough area	Nov. 3 Nov. 18 Dec. 26 Feb. 17 April 21	R. K. Baker, F. R. Pammett R. K. Baker R. K. Baker, F. R. Pammett, D. Sadler R. K. Baker, F. R. Pammett R. K. Baker	1 ♀ 1 ♀ 1 ♂ 1 ♂ 1 ♂
7	Pinery Park, Lambton County	June 20	Dr. Keith Reynolds, <i>et al.</i>	1 ♂
8	Port Hope area Canton	Early Dec. ca. Dec. 25	R. Burness <i>vide</i> P. Landry	1 1
9	Rutherforden	May 16-June 10	Louise de Kiriline Lawrence	1 ♂
10	Toronto area Highland Creek Ajax Glendon Hall Agincourt Port Credit Scarboro Donalda Agincourt	Nov. 11 Nov. 11 Nov. 17 Dec. 20 Dec. 21 Dec. 23 Dec. 25 Dec. 30	G. Fairfield W. Campbell D. Bryant, E. Walther, L. Hughes G. Page, R. Wilson Mrs. L. McDougall W. Martin W. Hough J. L. Baillie, <i>et al.</i>	1 ♀ 1 ♂ 1 ♀ 1 ♀ 1 1 1 ♂ 1 ♂
1	QUEBEC Quebec City area Ste. Foy Cape Tourmente Valcartier Giffard	Nov. 1-4 Nov. 13 Dec. 11 May 20	Gaston LePage acc. to René Tanguay acc. to René Tanguay Benoit Asselin	1 3 1 1
2	Ste. Anne des Monts	April 6	Frère Charles-Aimé	1
3	Ulverton	March 22	L. M. Terrill	1

TABLE 2  
BLACK-BACKED THREE-TOED WOODPECKER RECORDS

Map Reference No.	Locality	Date	Observers	Number (Sex if given)
1	CONNECTICUT New Canaan New Britain Glastonbury	Aug.-Oct. 1956	C. Bartow ( <i>Audubon Field Notes</i> , Feb., 1957)	1
		Oct. 9-28	Edwin Austin	2
		Nov. 18	Dr. Whittles	1
		Nov. 21	Dr. Whittles	1
1	West Hartford New Britain	Jan. 11	<i>vide</i> Mrs. Mary French, <i>et al.</i>	1
		Feb. 7-April 6	Edwin Austin	1
1	ILLINOIS Chicago	April 28-May 19	Allen C. Montague, ( <i>Audubon Field Notes</i> , Aug., 1957)	1 ♀
		Dec. 9	R. Earl Olson	1 ♂
1	MAINE Androscoggin County Webster	Feb. 24	D. H. Morse	1 ♀
		March 30	D. H. Morse	1 ♂
2	Cumberland County Bridgton	Nov. 22	Edgerton	1
		Jan. 17	Poole	1
3	Franklin County Coburn Gore	Feb. 22	De Garmo	1 ♀
		April 20	Therrien	1
4	Kennebec County Wilton	April 24	Fernald	1 ♂
		Nov. 4	Southard	1
5	Knox County Farmingdale	Dec. 28	Emery	1
		Sept. 26	Lawrence	1
6	Monhegan Island St. George	Oct. 6-12	Hanneman	2 ♂
		Oct. 12	Mrs. Phillip L. Holden	2
7	Lincoln County Pemaquid Point	Sept. 29	Miss S. Wollaston	1 ♀
		Oct. 12	Tabers	2
8	Oxford County Baldpate Mountain	Sept. 29	Miss S. Wollaston	1 ♀
		Oct. 12	Tabers	2
	Piscataquis County Mount Katahdin			



TABLE 2 (Continued)

Map Reference No.	Locality	Date	Observers	Number (Sex if given)
9	Sagadahoc County	April 22	Emery	1
10	Bath	Nov. 14	Gamage	1
	Brighton	Nov. 23	Gamage	1
	Pleasant Ridge Pt.	March 1	Foss	1 ♀
	Rockwood	April 28	N. L. Davis	2
	The Forks	April 28	N. L. Davis	1 ♀
11	Moose River			
	Washington County			
1	South Addison	Oct. 19	Ewers	1 ♂
	MASSACHUSETTS			
	Essex County			
	Haverhill	Sept. 29	Mrs. H. Cole	1 (specimen)
	Manchester	Oct. 13	Mr. and Mrs. John Day	2
	Andover	Oct. 25	Craig Roberts, W. Byers	1 ♂
	North Andover	Oct. 31	Brian Harrington	1 ♀
	Magnolia	Nov. 19	Mrs. Edwin S. Rand	1
	North Andover	Dec. 7	Craig Roberts	1 ♀
	Hamilton	Jan.	R. Ames, <i>et al.</i>	1
Rowley	Jan. 27	Ruth P. Emery	1 ♂	
Newburyport	Feb. 2-Feb. 28	C. DeWindt, E. Barry	2	
Annisquam	Feb. 27	Mr. and Mrs. R. L. Gaffney	1	
Newburyport	March	<i>vide</i> Ruth P. Emery	1 ♀	
North Andover	March 2	Torrey Jackson, John B. Holt, Jr.	1	
Newbury	April 12	C. DeWindt	1 ♂	
North Andover	May 5	Oscar M. Root	1 ♂	
2	Middlesex County			
	Lexington	Oct. 6	Mr. and Mrs. F. Cutler	1 ♀
	Hudson	Oct. 22	Mrs. Parker	1
	Winchester	Oct. 27	Mrs. D. W. Kitchin	1
	Hopkinton	Oct. 23	Adelbert Temple	1 ♀
	Weston	Nov. 15	R. Campbell	1
	Concord	Mid-Dec.-Jan. 27	Mrs. Standish Bourne	2
	Feb. 16	T. R. Morse	1 ♀	

TABLE 2 (Continued)

Map Reference No.	Locality	Date	Observers	Number (Sex if given)
	Framingham	Feb. 23	F. Gleason	1
	Weston	March	Jean Wittenberger	1 ♀
		March 24	Stephen Cribben	1
	Sherborn	April 6	Mr. and Mrs. H. M. Channing	1 ♀
	Lexington	April 23	Mrs. A. H. Meyer	1 ♀
	Concord	May 7	Mary McClintock	1
3	Norfolk County			
	Wellesley Hills	Oct. 14–Nov. 25	Wayne Peterson, Mrs. P. L. Holden, K. Elkins	3
	Needham	Dec.	John Willison	1
	Dover	Dec. 16–18	Chas. C. Cabot, <i>et al.</i>	3
	Wollaston	Feb. 11	Robert Fox	1 ♀
	Wellesley	March 13–20	Mrs. A. Edmands	2 ♀
	Milton	April 13	Sarah H. Wollaston	1 ♀
	Hyde Park	Aug. 10, 1957	Leon Berig	1 ♂
4	Southeast Massachusetts			
	Nantucket	Oct. 21	John V. Dennis	1 ♂
	Cataumet	Oct. 27	E. C. Johnson	1
	Westport	Dec. 1	Norman Hill	1 ♂
	Berkley	April 18	Mrs. Athearn, <i>et al.</i>	2
5	Western Massachusetts			
	Holyoke	Dec. 30	Rudolph Stone	1
	Northfield	Feb. 2	Mr. and Mrs. David A. Pepperell	1 ♀
	Mr. Tom	March 15 and 16	S. A. Eliot, <i>et al.</i> ( <i>Audubon Field Notes</i> , Aug., 1957)	1
6	Worcester County			
	Worcester	Oct. 31	Mrs. Phillip B. Haywood	1 ♀
	Rutland	Dec. 1	Mr. and Mrs. David H. Crompton	1 ♂
	Barre	Dec. 7	David H. Crompton, David Miner	1 ♂
	Paxton	Dec. 9	Lloyd Jenkins, <i>et al.</i>	1 ♀
	Barre	Dec. 16	David H. Crompton, David Miner	1 ♀
		May 8	Campbell	1 ♀
	MICHIGAN			
1	Luzern	Nov. 19	L. M. Zimmerman	1
2	Marquette	Feb. 13	Ed Wieland	1

TABLE 2 (Continued)

Map Reference No.	Locality	Country	Date	Observers	Number (Sex if given)
3	Kirtland's Warbler	Country	May 31	Harold Mayfield	Nest with young
		(First nesting record for the lower peninsula of Michigan)			
1	MINNESOTA				
	Winona		May 4	John Futcher	1
1	NEW BRUNSWICK				
	Fredericton		Early Nov.	<i>vide</i> W. A. Squires	1
2	King's County		June 19	( <i>Nature News</i> [N. B. Museum], 8[4]:2, July-Aug., 1957)	nest
1	NEW HAMPSHIRE				
	Northern New Hampshire				
	Monroe		Oct. 25-26	Ruby B. Emery, Priscilla Powers	1 ♀
	Littleton		Dec. 2	Ruby B. Emery	1 ♀
	Lancaster		Jan. 27	Mr. and Mrs. Wm. F. Nickerson	1
	Pinkham Notch		Feb.	Miss F. Lawson	1
2	Southern New Hampshire				
	Nottingham		Oct. 20	Mr. and Mrs. N. L. Hatch	1
	Hollis		Oct. 21	W. H. Stimson	1 ♀
	Peterboro		Nov. 8-Dec. 20	W. Patten Hill	2
	New Hampton		March 1	R. Hebert	1
1	NEW JERSEY				
	Culver's Gap		Oct. 22	F. W., <i>et al.</i> , ( <i>Audubon Field Notes</i> , Feb., 1957)	1
1	NEW YORK STATE				
	Buffalo Region				
	Wilson				
	Letchworth Park				
	Olean		Oct. 20	Dr. and Mrs. H. Axtell	2
	Buffalo		Oct. 28	Clayton Knox	1 ♀
			Nov. 4	Mr. and Mrs. E. Ulrich, <i>et al.</i>	1 ♂
			Nov. 24	Charles Summers	1
			Dec. 9	T. Ucci, Gertrude Webster	1
			Dec. 16	Walker, Gertrude Webster	1
			April 10	Mrs. Milligan, Mrs. J. Bacon	1
2	Armor		Oct. 11	Robt. Saunders, <i>et al.</i>	2 ♂
3	Chenango Valley State Park		Dec.-March 10	Belknap, A. W. Allen	2
	Clayton area				

TABLE 2 (Continued)

Map Reference No.	Locality	Date	Observers	Number (Sex if given)
4	Finger Lakes area Sapsucker Woods Pond Ithaca	Mid-Jan. Feb. 2	David Allen per Cornell Ornithology Laboratory	1
5	Keesville	Dec. 8	T. A. Lesperance	1 (specimen)
6	Mill Neck	Mid-Feb.	John Elliott	1 ♂
7	New York City area Bedford	Oct. 20	Douglas Orbison, <i>et al.</i>	1
8	New Rochelle Rochester area 1105 Monroe Ave. Scottsville	April 28	George Gorman	1 ♂
9	Summersville Drive Morville Drive Long Pond Woods Syracuse area Ava	Nov. 18-April Nov. 23	Stuiz, Klonick, <i>et al.</i>	4 ♀, 3 ♂
	Fayetteville	Dec. 30	O'Hara, Miller	1 ♀
	Manlius	Dec. 30	Whites	1 ♀
	Baldwinsville	Jan. 2-10	Leo Tanghe	1 ♀, 1 ♂
	Watervliet	April 27	O'Hara, Miller	1 ♀
10		Dec. 1	A. Jones	1 ♂
		Dec. 30	Walter Spofford	1
		Mid-Jan.	<i>vide</i> Mrs. R. Gould	1 ♀
		Feb. 17-March 10	F. Scheider, Evans	1 ♀
		Feb. 24	Mr. and Mrs. J. Smith, <i>et al.</i>	1 ♂, 2 ♀
		Dec. 22-Jan. 20	James Merritt	1 ♀
		Early Sept.	Harrison F. Lewis	1 ♀ (banded)
1	NOVA SCOTIA Brier Island			
1	ONTARIO Algonquin Park	Oct. 27	J. L. Baillie, E. V. Stark, <i>et al.</i>	1
2	Bancroft area Paudash Lake	Jan. 5	D. E. Scovell	1 ♀
	McGarry's Creek	Jan. 13	D. E. Scovell	1
3	Barrie area	Sept. 25	Mrs. J. MacLean	1
		Nov. 9	Mrs. J. L. Westman	1
		May 13	L. Whiting	1
		May 18	Mrs. E. S. Lewis, <i>et al.</i>	1 ♂, 1 ♀

TABLE 2 (Continued)

Map Reference No.	Locality	Date	Observers	Number (Sex if given)
4	Brockville area	Nov. 4	D. S. Hurrie	1 ♀
		Dec. 29	J. Cartwright, S. Wilsie	1
		Jan. 1	D. S. Hurrie	1 ♂
		Jan. 12	D. S. Hurrie	1 ♂
5	Cobourg area Brighton Port Britain Port Hope Rice Lake Presqu'ile Point	Oct. 19	A. A. Outram	1
		Oct. 26	H. Reeve, L. Steele	1
		Oct. 27	R. Burness	1
		Early Nov.	Eleanor Ralls	1
		Nov. 11	Miss A. M. Hughes, <i>et al.</i>	1 ♂
		Dec. 16	G. Bennett	1
		Dec. 23	Willow Beach Field Nat. Club	1
		Dec. 23	Willow Beach Field Nat. Club	2
		Jan. 6	Miss A. Wilson	1
		Feb. 10	G. Bennett	1 ♂
		Oct. 6-13	Paul Harrington	Flight of 4-5 daily
		Dec. 26	Keith Denis	1
		6	Fort William-Port Arthur Hamilton area Paradise Rd.-Hwy. #53 Strathearne Sewer Dundas Marsh Spencer's Creek Dundas Marsh Westdale Mount Albion Sherman St. Clappison's Corners York Road Campbellville McKittrick's Bridge Freeman & Westdale	Oct. 21-Dec. 1
Oct. 21-27	H. McPherson			1
Nov. 17	H. Williams, J. Cummings			1
Nov. 25	G. W. North, J. Miles			1
Dec. 1	W. A. T. Gilmore			2
Dec. 9	R. Henry			1
Dec. 16	R. Seargent			1
Dec. 30	J. Miles			1
Dec. 30	H. Williams			2
Jan. 12	J. Miles			1
Feb. 2	<i>vide P. Hamel</i>			1
Feb. 10	Hamilton Junior Nature Club			1
March 1	S. McBride, H. McPherson			2
Dec. 23	R. J. Rutter	1		
7	Commanda	Oct. 6-13	Paul Harrington	1
		Dec. 26	Keith Denis	1
8	Hamilton area Paradise Rd.-Hwy. #53 Strathearne Sewer Dundas Marsh Spencer's Creek Dundas Marsh Westdale Mount Albion Sherman St. Clappison's Corners York Road Campbellville McKittrick's Bridge Freeman & Westdale	Oct. 21-Dec. 1	R. Roy, G. W. North	1
		Oct. 21-27	H. McPherson	1
		Nov. 17	H. Williams, J. Cummings	1
		Nov. 25	G. W. North, J. Miles	1
		Dec. 1	W. A. T. Gilmore	2
		Dec. 9	R. Henry	1
		Dec. 16	R. Seargent	1
		Dec. 30	J. Miles	1
		Dec. 30	H. Williams	2
		Jan. 12	J. Miles	1
		Feb. 2	<i>vide P. Hamel</i>	1
		Feb. 10	Hamilton Junior Nature Club	1
		March 1	S. McBride, H. McPherson	2
Dec. 23	R. J. Rutter	1		

TABLE 2 (Continued)

Map Reference No.	Locality	Date	Observers	Number (Sex if given)
10	Kingston area Kingston Westport Bedford Mills Kingston Kitchener Kirkland Lake London Orangeville area Ottawa area	Oct. 9 Late Oct. Nov. 10 Dec. 16 Nov. 17 Christmas census Dec. 2 Oct. 15 Fall 1956 March 1 April 4 Oct. 28 Nov. 4 Nov. 18 Dec. 26 Feb. 9 April 19 April 21 Oct. 27 Fall, 1956 April 19	Helen Quilliam A. Strong A. Strong A. E. Garwood, W. Lamb Margaret Lemon J. G. Stephenson James Leach, <i>et al.</i> Isobel Miller <i>vide</i> W. Earl Godfrey D. B. O. Saville D. B. O. Saville A. Bunker, F. R. Pammett, J. L. McKeever D. Sadler, F. R. Pammett R. K. Baker R. K. Baker, F. R. Pammett, D. Sadler R. K. Baker F. R. Pammett C. C. Green R. E. Mara Louise de Kiriline Lawrence Mr. and Mrs. R. Lloyd	1 ♂ 1 ♀ 1 ♂ 1 ♀ 1 ♀ 1 1 2 Several 1 1 1 1 ♀ 1 ♂, 1 ♀ 1 ♂, 2 ♀ 1 ♂, 2 ♀ 1 ♂ 1 ♀ 1 ♂ 1 3 1
17	Point Pelee	Oct. 4	W. Wasserfall	1 ♀ (banded)
18	Rutherglen	Oct. 11	W. Wasserfall	1 ♂ (banded)
19	St. Williams	Oct. 14	W. Higgins	1 ♀
20	Toronto area Willowdale Colborne Lodge Glen Major Woodbridge Pottageville Richmond Hill Finch Ave., North York Pickering Applewood Acres Lawrence Ave. E.	Oct. 14 Oct. 14 Oct. 21 Oct. 23 Oct. 24 Oct. 27 Oct. 28 Oct. 28	Mrs. O. S. Mitchell W. Williams L. L. Snyder Mrs. Curry W. Williams R. M. Saunders J. Dales Miss McGregor	1 1 2 1 1 1 ♂ 1 1 1

TABLE 2 (Continued)

Map Reference No.	Locality	Date	Observers	Number (Sex if given)
	Purpleville	Oct. 28	Mrs. A. J. Ballinger	1 ♀
	Sunnybrook Hospital	Oct. 30	L. Hughes	1
	Willowdale	Early Nov.	W. Wasserfall	1 ♀ (banded)
	Glendon Hall	Early Nov.	E. Walther	1
	Port Credit	Nov. 1	Mrs. D. R. Gunn	1
	Green River	Early Nov.	Mrs. P. Applegath	1
	Highland Creek	Nov. 4	J. Smith	1 ♀
	Royal Ontario Museum Grounds	Nov. 7	Sylvia Hahn	1
	College Street	Nov. 7	F. Darroch	1
	Bayview Ave.	Nov. 8	C. Atwood	1
	Richmond Hill	Nov. 11	<i>vide</i> L. L. Snyder	1
	Lorne Park	Nov. 11	D. R. Gunn, D. Perks	1
	Cherrywood	Nov. 12	M. Armstrong	1
	Port Credit	Nov. 13	D. R. Gunn	1 ♀
	Purpleville	Nov. 17	Mrs. D. Lewis	1 ♂
	Glendon Hall	Nov. 22	J. R. Mackintosh	2 ♂
	Bloor St. W.	Nov. 22	R. W. Trowern	1
	Cedarvale	Nov. 24	R. Pannell	1 ♀
	Glendon Hall	Nov. 27	J. Livingston, R. T. Peterson, J. L. Baillie	1 ♀
	Ajax	Dec. 2	W. Campbell	1 (banded)
	Lorne Park	Dec. 23	J. L. Baillie, <i>et al.</i>	4
	Smythe Park	Jan. 5	G. Giles	1 ♂
	James Gardens	Jan. 5	C. Giles	1
	Cooksville	March 20	Mrs. Houghton	1
	Thistleton	April 21	David Moore	1 ♀
	Applewood Acres	April 28	J. Dales	1
	Highland Creek	May 4-6	J. Smith	1 ♂
	Willowdale	May 5-11	W. Wasserfall	1
	Pickering	June 2	R. Taylor, D. O'Brien	1
	PENNSYLVANIA			
1	Pymatuning Reservoir	March 23	Hal H. Harrison	1

TABLE 2 (Continued)

Map Reference No.	Locality	Date	Observers	Number (Sex if given)
	QUEBEC.			
1	Barrière Caribou	Sept. 27	<i>vide</i> Abbé René Tanguay	1
		Oct. 12	<i>vide</i> Abbé René Tanguay	1
2	Biencourt	May 16	Henri Ouellet	1
3	Dosquet	March 13	<i>vide</i> Abbé René Tanguay	1
4	Ilets Jérémie	Sept. 4-5	Jacques Normandin	2
5	Lac Frontière	Oct. 18	Louis Amédée Lord	2
6	Montreal region			
	Montreal	Oct. 5	Paul Lebonnet	1
	Senneville	Nov. 7-April 23	R. S. and P. C. Abbott	1 ♀
	Hudson Heights	Dec. 30	Mrs. G. A. Golden	1
	Rigaud	March 21	Cercle Jeune Naturalistes	1
7	Quebec City region			
	Quebec City	Sept. 8	Ronald LePage	1
		Sept. 22	<i>vide</i> Abbé René Tanguay	2
		Oct. 5	<i>vide</i> Abbé René Tanguay	1
	Montmorency	Nov. 11	Francois Hamel	1
	Valcartier	Nov. 11-March 20	<i>vide</i> Abbé René Tanguay	2
	Quebec City	Nov. 13	<i>vide</i> Abbé René Tanguay	1
	St. Foy	Nov. 25	Gaston LePage	1
	Quebec City	Dec. 1	Ronald LePage	1
		Dec. 29	Raymond Cayouette	1
	Valcartier	March 20	<i>vide</i> Abbé René Tanguay	1
	Notre Dame des Laurentides	March 20	Abbé Paul Etienne Sirois, Lucien Robitaille	1
8	St. Fabien de Panet	Dec. 28	Raymond McNeil	1 ♂
9	Ste. Felicité	Aug. 8, 1956	Raymond Cayouette, <i>et al.</i>	Family group of five
10	Temiscamingue	Feb. 8	<i>vide</i> Abbé René Tanguay	1 ♀
	VERMONT			
1	Okemo Mountain	Oct. 21	Elizabeth Ball	1
	WISCONSIN			
1	Jackson County	Nov. 25	Alan J. Rusch	1 ♂
2	Oconto County	Oct. 28	Carl H. Richter	1

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