

## BIRD CALENDAR - 1934 - 30th YEAR

### BULLETIN NO. 2 - JULY 20

The delay in the distribution of these bulletins may be explained by the increasing number of records that must be compiled each time not only by each contributor but also by the editor, besides the work of mimeographing. This bulletin covers the two months of April and May. April was approximately normal in amount of rainfall, and 1.1° F. above the normal in temperature. May was very dry with the total rainfall only 0.58 inches, compared with the normal for this month of 3.12 inches. The mean temperature during May was 4.7° F. above normal. There were eight regular contributors to this bulletin, as follows:

John Aldrich	S. C. Kendeigh
B. T. Barnes	Margarette E. Morse
Francis Gilliland	E. A. Votypka
Dale C. Kellogg	A. B. Williams

In addition to these, a few others have contributed scattered records that are acknowledged in the following pages. Forty-eight trips were recorded in April and sixty-four in May. Two hundred two species are included in this bulletin, which brings the yearly list of species seen to two hundred eleven. Several rare species will be noted included in this list.

A new departure in the compiling of the records is in grouping the species according to the general habitat that they occupy. A secondary division is then made on the basis of their seasonal occurrence. This makes possible a more fair and ready comparison of the relative abundance of the species in the same habitat. The abundance is indicated by average number of birds seen on all trips recorded for the month, by the percentage of all these trips on which the species was seen, and by an index figure obtained by multiplying together the first two. Number per trip refers to actual number of individuals, percent of trips to the general distribution of the species, while the index of abundance seeks to combine the value of these two factors into one figure. The index of abundance does not give an entirely true picture of the relative abundance of the species unless allowance is made for the relative conspicuousness of each species and the ease in which it may be recorded. Likewise, it is not entirely fair to compare the index of abundance of species of different habitats unless allowance is made for the frequency in which each habitat is visited by the observers. We may in the future obtain some actual figure to correct for these factors. Meanwhile, the indices are, at least, suggestive.

Transient species are included only in the migration table of all spring arrivals. A hasty study of the migration table shows that there were during the last spring nine more or less distinct surges or "waves" in the migration. These were as follows:  
March 2-5, 17, March 31-April 1, 7, 21-22, 28-29, May 2, 5-6, 10-13.

The largest number of new arrivals was obtained in the May 5-6 wave, but the height of the spring migration with the largest number of individuals passing through probably came during the period of May 10-13. The migration during April and May was approximately on schedule.

BIRDS OF THE WOODS

Species	April			May		
	No. per Trip	% of Trips	Index of Abundance	No. per Trip	% of Trips	Index of Abundance
<u>Permanent Residents</u>						
Tufted Titmouse	2.3	66.7	153.4	1.7	60.9	103.5
Towhee	1.9	68.8	130.7	1.6	65.6	105.0
Black-capped Chickadee	1.7	60.4	102.7	1.0	42.2	42.2
White-breasted Nuthatch	1.5	56.2	84.3	0.70	34.4	24.1
Downy Woodpecker	1.1	62.5	68.8	0.47	34.4	16.2
Blue Jay	0.94	37.5	35.2	1.3	51.6	67.1
Hairy Woodpecker	0.44	29.2	12.8	0.19	15.6	3.0
Marsh Hawk	0.38	20.8	7.9	0.27	15.6	4.2
Ruffed Grouse	0.06	6.2	3.7	0.06	6.2	3.7
Red-bellied Woodpecker	0.19	14.6	2.8	0.16	6.2	1.0
Red-shouldered Hawk	0.31	14.6	4.5	0.05	4.7	0.2
Barred Owl	0.17	14.6	2.5	0.06	6.2	0.4
Red-tailed Hawk	0.18	8.3	1.5	0.05	3.1	0.2
Carolina Wren	0.08	8.3	0.7	0.14	10.9	1.5
<u>Summer Residents</u>						
Red-eyed Vireo	---	---	---	3.0	60.9	182.7*
Ovenbird	---	---	---	2.5	65.6	164.0
Wood Thrush	---	---	---	2.4	51.6	123.8
Black-throated	---	---	---	1.9	43.8	83.2
Green Warbler	---	---	---	1.3	57.8	75.1
Crested Flycatcher	---	---	---	1.3	42.2	54.9*
Scarlet Tanager	---	---	---	0.72	40.6	29.2*
Wood Pewee	---	---	---	0.67	29.7	19.9*
Rose-breasted Grosbeak	---	---	---	0.23	56.2	12.9
Redstart	---	---	---	0.50	23.4	11.7*
Veery	---	---	---	0.89	12.5	11.1*
Hooded Warbler	---	---	---	0.48	17.2	8.3*
Cerulean Warbler	---	---	---	0.31	23.4	7.3
Louisiana Water-thrush	---	---	---	0.27	18.8	5.1*
Yellow-throated Vireo	---	---	---	0.12	19.1	1.7
Whip-poor-will	---	---	---	0.16	9.4	1.5
Acadian Flycatcher	---	---	---			

Species	No. per Trip	% of Trips	Index of Abundance	No. per Trip	% of Trips	Index of Abundance
<u>Winter Visitors</u>						
Golden Crowned Kinglet	1.8	43.8	78.7	---	---	---
Brown Creeper	1.1	41.7	45.9	---	---	---
Red-breasted Nuthatch	0.77	16.7	12.9	0.31	14.1	4.4*

(\*) This mark signifies that the species was present in the area during only part of that month.

#### LESS COMMON SPECIES

Woodcock - April 7(1), 17(2); May 12(1), 14(1), 19(4).  
 Black-billed Cuckoo - May 13(1), 19(1,1,2), 20(1).  
 Yellow-billed Cuckoo - May 18(1), 20(1), 30(2).  
 Broad-winged Hawk - April 18(2), 29(3); May 1(1), 27(1).  
 Saw-whet Owl - April 18(1 - found dead on Abington Rd. by R.Schneerer).  
 Pileated Woodpecker - April 4(1), 9(1); May 2(1).  
 Blue-gray Gnatcatcher - May 3(1), 6(1,1), 13(5).  
 Purple Finch - April 25(1), May 6(2,4,1), 7(2), 9(2).

#### BIRDS OF THE OPEN COUNTRY

(OPEN WOOD LOTS, SHRUBBY FIELDS, FARMLAND, CITIES)

Species	April			May		
	No. Per Trip	% of Trips	Index of Abundance	No. per Trip	% of Trips	Index of Abundance
<u>Permanent Residents</u>						
Song Sparrow	6.7	87.5	586.2	6.2	71.9	445.8
Starling	11.4	54.2	617.9	5.5	52.4	288.2
Crow	4.8	79.2	380.2	3.1	76.6	237.5
Cardinal	2.1	85.4	179.3	1.9	70.3	133.6
Bob-white	0.65	14.6	9.5	1.4	45.3	63.4
Ring-necked Pheasant	0.42	22.9	9.6	0.48	17.2	8.3
Sparrow Hawk	0.44	29.2	12.8	0.2	17.2	3.4
Sharp-shinned Hawk	0.17	14.6	2.5	0.11	9.4	1.0
<u>Summer Residents</u>						
Robin	13.2	79.2	1045.4	9.3	71.2	662.2
Cowbird	5.7	70.8	403.6	5.1	64.1	326.9
Mourning Dove	3.4	81.2	276.1	4.5	64.1	288.4
Yellow Warbler	---	---	---	3.7	64.1	237.2
Meadowlark	3.6	68.8	247.7	3.5	57.9	202.6
Bronzed Grackle	4.6	45.8	210.7	4.9	45.3	222.0

BIRDS OF THE OPEN COUNTRY

(OPEN WOOD LOTS, SHRUBBY FIELDS, FARMLAND, CITIES)

Species	April			May		
	No. per Trip	% of Trips	Index of Abundance	No. per Trip	% of Trips	Index of Abundance
<u>Summer Residents Cont'd.</u>						
Flicker	2.40	81.2	194.9	2.10	67.2	141.1
Goldfinch	0.38	6.2	2.4	5.40	60.9	328.9
Purple Martin	3.00	39.6	118.8	2.6	37.5	97.5
Field Sparrow	1.80	54.2	97.6*	2.00	54.7	109.4
House Wren	0.17	6.2	1.1*	2.70	73.4	198.2
Barn Swallow	2.00	20.8	41.6*	3.40	46.9	159.5
Bank Swallow	0.21	10.4	2.2*	5.60	31.2	174.7
Catbird	---	---	---	1.80	57.8	104.0
Phoebe	1.50	75.0	112.5	0.86	39.1	33.6
Bluebird	2.00	54.2	108.4	0.75	33.3	25.0
Killdeer	1.40	50.0	70.0	1.40	50.0	70.0
Vesper Sparrow	1.80	39.6	71.3	0.89	32.8	[29.2] 32.8
Chipping Sparrow	0.73	25.0	18.2*	1.50	48.4	72.6
Bobolink	---	---	---	1.80	39.1	70.4
Baltimore Oriole	---	---	---	1.00	48.4	48.4
Migrant Shrike	0.21	20.8	43.7	0.08	6.2	0.5
Prairie Horned Lark	1.00	27.1	27.1	0.77	18.8	14.5
Turkey Vulture	0.60	20.8	12.5	0.73	25.0	18.2
Brown Thrasher	0.17	10.4	1.8*	0.53	31.2	16.5
Red-headed Woodpecker	0.06	4.2	0.3	0.59	31.2	18.4
Rough-winged Swallow	---	---	---	1.00	23.4	23.4
Indigo Bunting	---	---	---	0.84	26.6	22.3*
Blue-winged Warbler	---	---	---	0.64	32.8	21.0*
Kingbird	---	---	---	0.64	29.7	19.0*
Warbling Vireo	---	---	---	0.45	23.4	10.5*
Chimney Swift	---	---	---	1.80	42.2	7.5
Upland Plover	---	---	---	0.84	7.8	6.6
Grasshopper Sparrow	---	---	---	0.38	17.8	6.5
Cedar Waxwing	---	---	---	0.42	10.9	4.6
Ruby-throated Hummingbird	---	---	---	0.27	15.6	4.2*
Nighthawk	---	---	---	0.27	12.5	3.4*
Yellow-breasted Chat	---	---	---	0.16	10.9	1.7*
<u>Winter Visitors</u>						
Slate-colored Junco	8.60	68.8	591.7	---	---	---
Tree Sparrow	1.30	29.2	38.0	---	---	---

LESS COMMON SPECIES

Cooper Hawk - April 17(1), 21(1,1), 29(2).  
 Screech Owl - May 21(2).  
 Northern Horned Lark - April 2(1 - A.B.W.)  
 Cliff Swallow - April 29(1); May 6(3), 12(10,8)  
 Orchard Oriole - May 11(1 - Emory Sawyer)  
 Savannah Sparrow - April 28(1,2,); May 5(1), 6(2), 13(1).  
 Henslow Sparrow - April 28(1); May 12(1), 16(1).  
 Dickcissel - May 23, E. M. Foote

BIRDS OF THE MARSH

Species	April			May		
	No. per Trip	% of Trips	Index of Abundance	No. per Trip	% of Trips	Index of Abundance
<u>Summer Residents</u>						
Red-winged Blackbird	7.50	72.9	546.8	8.70	46.9	408.0
Northern Yellow-throat	---	---	---	1.50	56.2	84.3*
Coot	3.60	27.1	97.6	1.10	25.0	27.5
Black Duck	3.60	20.8	74.9	0.58	23.4	13.6
Blue-winged Teal	1.10	14.6	16.1	0.72	12.5	9.0
Pied-billed Grebe	1.00	58.3	58.3	0.16	7.8	1.2
Green Heron	---	---	---	0.66	37.5	24.8
Great Blue Heron	1.00	25.0	25.0	0.30	15.6	20.3
Tree Swallow	0.69	18.8	13.0	1.40	21.9	30.7
Water-thrush	---	---	---	0.72	25.0	18.0
Black-crowned Night Heron	---	---	---	2.80	6.2	17.4
Black Tern	---	---	---	1.30	9.4	12.2
Swamp Sparrow	0.49	18.8	9.2*	0.53	21.9	11.6
Florida Gallinule	---	---	---	0.42	12.5	5.2*
Long-billed Marsh Wren	---	---	---	0.45	9.4	4.2
Mallard	0.52	12.5	6.5	0.23	7.8	1.8
Sora Rail	---	---	---	0.22	12.5	2.8
Wilson Snipe	0.27	10.4	2.8*	0.16	12.5	2.0
Alder Flycatcher	---	---	---	0.17	14.1.	2.4
Virginia Rail	---	---	---	0.17	12.5	2.1
American Bittern	0.17	16.7	2.8*	0.08	7.8	0.6

(\*) This mark signifies that the species was present in this area during only part of that month.

LESS COMMON SPECIES

Wood Duck - April 7(2), 17(2); May 5(1). 12(12).  
 Least Bittern - May 19(1,1), 23(1).  
 King Rail - May 19(4).  
 Short-billed Marsh Wren - May 16(2), 26(1) - J.A.

BIRDS OF THE OPEN LAKE, LAKE SHORE, AND STREAMS

Species	April			May		
	No. per Trip	% of Trips	Index of Abundance	No. per Trip	% of Trips	Index of Abundance
<u>Permanent Residents</u>						
Herring Gull	5.9	18.8	110.9	10.9	18.8	204.9
Ring-billed Gull	0.12	4.2	0.5	8.2	6.2	51.7
<u>Summer Residents</u>						
Belted Kingfisher	1.2	54.2	65.0	0.69	35.9	24.8
Spotted Sandpiper	0.21	12.5	2.6*	1.7	53.1	90.3
Common Tern	0.73	4.2	3.1*	4.6	17.2	79.1
<u>Winter Visitors</u>						
Lesser Scaup Duck	19.1	62.5	1193.8	2.3	10.9	25.1*
Canvasback	50.2	6.2	311.2*	---	---	---
Bonaparte Gull	9.0	10.4	93.6	---	---	---
American Merganser	2.4	6.2	14.9*	---	---	---
Red-breasted Merganser	4.6	8.3	38.2	---	---	---
American Goldeneye	0.19	12.5	2.4	---	---	---

(\* ) This mark signifies that the species was present in the area during only part of that month.

LESS COMMON SPECIES

White-winged Scoter - April 5(4), 7(5) - J.A.

Osprey - April 5(1), 7(1); May 12(1,1); April 17(1).

Bald Eagle - April 7(1), 28(2); May 5(3), 19(1,1),

SPRING MIGRATION

SPECIES	FIRST RECORD	SECOND RECORD	REMARKS
Loon	April 1(2)	April 7(7)	
Shoveller	April 1(7)	April 6(2)	
Hooded Merganser	April 1(4)	April 5(20)	
Purple Martin	April 1(2)	April 8(1)	
Migrant Shrike	April 1(1)	April 5(1)	
Hermit Thrush	April 1(1)	April 6(1)	First Record - Emory Sawyer
Horned Grebe	April 2(1)	April 5(4)	
Yellow-bellied Sapsucker	April 2(1)	April 4(1)	
Winter Wren	April 2(1)	April 7(1)	Not wintering in 1934.

<u>SPRING MIGRATION</u>			
SPECIES	FIRST RECORD	SECOND RECORD	REMARKS
Whistling Swan	April 5(8)	April 8(3)	Only 2 records First record - Emory Sawyer
Osprey	April 5(1)	April 7(1)	
Hermit Thrush	April 1(1)	April 6(1)	First record - Emory Sawyer
American Bittern	April 7(1)	April 13(1)	
Wood Duck	April 7(2)	April 17(2)	
Greater Yellow Legs	April 7(1,6)	April 21(1)	
Ruby-crowned Kinglet	April 7(1)	April 8(1)	
Field Sparrow	April 7(3)	April 8(2,2,1)	
Swamp Sparrow	April 7(2,4)	April 8(2)	
Common Tern	April 8(30)	April 21(5)	First record by M.E.M.
(on May 5, E. C. Hoffman reports 3500 terns flying along the lake shore in Lakewood).			
Chipping Sparrow	April 8(1)	April 9(1,1)	
Golden Plover	April 9 (400)	April 29(75)	500 observed on May 1.
Barn Swallow	April 15(3)	April 21(16)	First record by M.E.Foote
Brown Thrasher	April 16(2)	April 21(1)	First record by M.E.Foote
Chimney Swift	April 17(1)	April 30(1)	First record by M.E.Foote
Sora Rail	April 21(2)	April 28(4)	
Spotted Sandpiper	April 21(1,2)	April 22(1)	
Crested Flycatcher	April 21(1)	May 2(1)	
Bank Swallow	April 21(1)	April 22(3,1)	
House Wren	April 21(2)	April 28(2)	
Long-billed Marsh Wren	April 21(2)	May 5(2)	
Wood Thrush	April 21(2,1)	April 28(2)	
Green Heron	April 22 (1)	May 2(1)	
Pectoral Sandpiper	April 22(40)	April 29(130)	
Myrtle Warbler	April 22(1)	April 25(4)	
Louisiana Waterthrush	April 22(1)	April 28(1)	
Grasshopper Sparrow	April 22(1)	April 28(2)	
Virginia Rail	April 22(1)	May 5(1)	
Least Flycatcher	April 23(1)	May 5(1)	
Catbird	April 23(1)	May 5(2,1,1)	
Purple Finch	April 25(1)	May 6(2,4,1)	Not wintering in 1934.
Upland Plover	April 28(2)	May 5(7)	
Double-crested Cormorant	April 28(2)	-----	Solon Bog J.A.
Rough-winged Swallow	April 28(3)	May 5(1,3)	
Yellow Warbler	April 28(3)	April 29(1)	
Henslow Sparrow	April 28(1)	May 12(1)	
Savannah Sparrow	April 28(1,2)	May 5(1)	

SPRING MIGRATION

SPECIES	FIRST RECORD	SECOND RECORD	REMARKS
White-throated Sparrow	April 28(2)	April 29(6)	
Solitary Sandpiper	April 29(1,1)	May 3(2)	
Cliff Swallow	April 29(1)	May 6(3)	
Cedar Waxwing	April 29(18)	May 9(2)	No winter records - 1934
Black-throated Green Warbler	April 29	April 30(2)	First record
Palm Warbler	April 29(1)	May 1(1)	by M.B. Skaggs
Nashville Warbler	April 30(1)	May 5(1)	First record
Whip-poor-will	May 1(1)	May 5(1)	by M.E.Foote
Blackburnian Warbler	May 1(1)	May 6(2,5,1,2)	
Bobolink	May 1(9)	May 3(7)	
Olive-backed Thrush	May 2(1)	May 3(1)	First record
Ovenbird	May 2(3)	May 5(1,1,1)	by M.E.Foote
Water-thrush	May 2(1,3)	May 5(3)	Probably both
S.n. noveboracensis and S.n. notabilis - impossible to distinguish in the field.			
Redstart	May 2(4,1)	May 3(1)	
Baltimore Oriole	May 2(1)	May 3(3)	
Blue-gray Gnatcatcher	May 3(1)	May 6(1,1)	
Least Sandpiper	May 4(6)	May 12(2)	
Black-crowned Night Heron	May 5(120)	May 19(12,25,20)	Undoubtedly
was here earlier than first record indicates.			
Florida Gallinule	May 5(1)	May 12(1)	
Caspian Tern	May 5(22)	May 19(19)	Probably here
Black Tern	May 5(5)	May 18(4)	earlier.
Kingbird	May 5(1)	May 6(1)	
Veery	May 5(1,1)	May 7(2)	
Yellow-throated Vireo	May 5(1,1)	May 6(1,2)	
Blue-headed Vireo	May 5(1,1,1)	May 6(1)	
Warbling Vireo	May 5(2)	May 6(2)	
Black and White Warbler	May 5(1,4)	May 6(6)	
Northern Parula Warbler	May 5(1)	May 12(1)	Only the two
Magnolia Warbler	May 5(1)	May 6(2)	records.
Cape May Warbler	May 5(1)	May 6(5,1)	
Chestnut-sided Warbler	May 5(1)	May 6(2)	
Northern Yellow-throat	May 5(1,1,1)	May 6(3,1)	
Rose-breasted Grosbeak	May 5(3)	May 6(1)	
White-crowned Sparrow	May 5(1)	May 6(3)	



SPRING MIGRATION

SPECIES	FIRST RECORD	SECOND RECORD	REMARKS
Acadian Flycatcher	May 6(1)	May 8(1)	
Red-eyed Vireo	May 6(1)	May 7(2)	
Blue-winged Warbler	May 6(3,3)	May 7(2)	
Tennessee Warbler	May 6(5)	May 10(1)	
Black-throated Blue Warbler	May 6(1)	May 12(1,2)	
Cerulean Warbler	May 6(6)	May 7(2)	
Pine Warbler	May 6(1)	-----	
Yellow-breasted Chat	May 6(3)	May 12(1)	Recorded by J.A.
Scarlet Tanager	May 6(1)	May 7(3)	
Connecticut Warbler	May 7(1)	May 13(1)	
Hooded Warbler	May 7(3)	May 9(10)	
Semipalmated Sandpiper	May 8(3)	May 12(3)	
Red-backed Sandpiper	May 8(2)	May 12(3)	
Wood Pewee	May 10(1)	May 13(2)	
Gray-cheeked Thrush	May 10(1)	May 12(5,1,1,1)	
Canada Warbler	May 10(1)	May 13(1)	
Indigo Bunting	May 10(6)	May 12(1)	
Yellow-headed Blackbird	May 11(1)	-----	Observed near Sandusky by Emory Sawyer. It was a male and was studied within 20 ft. with 8x glasses.
Semipalmated Plover	May 11(150)	May 12(1,1)	First record by Emory Sawyer.
Piping Plover	May 11(4)	May 12(1)	First record - Emory Sawyer.
Orchard Oriole	May 11(1)	-----	Only 1 record Emory Sawyer.
Ruddy Turnstone	May 12(3)	May 19(15,24)	
Ruby-throated Hummingbird	May 12(1)	May 15(1)	
Pipit	May 12(1)	-----	Collected-J.A.
Wilson Warbler	May 12(1)	May 14(1)	
Lincoln Sparrow	May 12(1,1)	-----	Only one date. One record only
Black-bellied Plover	May 13(12)	-----	D.C.K.
Black-billed Cuckoo	May 13(1)	May 19(1,1,2)	
Philadelphia Vireo	May 13(2)	May 27(1)	Only 2 records J.A.
Bay-breasted Warbler	May 13(2,30)	May 14(10,1)	
Black-poll Warbler	May 13(1,1)	May 19(2)	
Harris Sparrow	May 13(1)	-----	One male seen in Shaker Heights until May 16 by F.G.. Studied frequently even as close as 5 ft. and characteristic markings well noted.
Alder Flycatcher	May 14(1)	May 19(1,1,1,1)	
Mourning Warbler	May 14(1)	May 19(1)	
Olive-sided Flycatcher	May 16(1)	May 20(1)	Only 2 records. J.A.

SPRING MIGRATION

SPECIES	FIRST RECORD	SECOND RECORD	REMARKS
Short-billed Marsh Wren	May 16(2)	May 26(1)	Only 2 records J.A.
Yellow-billed Cuckoo	May 18(1)	May 20(1)	
Least Bittern	May 19(1,1)	May 23(1)	
King Rail	May 19(4)	-----	Only 1 record M.E.M.
Hudsonian Curlew	May 19(13)	May 20(27)	Observed at Bay Point within 100 ft. by M.E.M. and S.C.K.. Only these 2 records.
White-rumped Sandpiper	May 19(1)	-----	Only 1 record S. C. K.
Nighthawk	May 19(1,6,1)	May 20(1)	
Dickcissel	May 23	-----	Only 1 record E.M.Foote
Yellow-bellied Flycatcher	May 25(1)	-----	Only 1 record M.B. Skaggs

SPRING MIGRATIONLAST RECORDS OF WINTER VISITORS AND TRANSIENTS

- April 2 Northern Horned Lark(1).  
 April 6 Green-winged Teal(1).  
 April 7 White-winged Scoter(5), Canvasback(2000), Pintail(35,4)  
 Canada Goose (10).  
 April 17 Fox Sparrow(1)  
 April 22 Hooded Merganser (1), Horned Grebe (1), Baldpate(8) American Merganser(100).  
 April 28 Tree Sparrow (5,3).  
 April 29 Bufflehead (3), Redhead Duck(2).  
 May 1 Winter Wren (1).  
 May 3 Hermit Thrush (2), Pectoral Sandpiper(2).  
 May 5 Loon (1,2), Rusty Blackbird, Red-breasted Merganser.  
 May 6 Ring-necked Duck (1), Yellow-bellied Sapsucker (1).  
 May 12 Slate-colored Junco (1,1).  
 May 13 Golden-eye(1), Palm Warbler(13,13).  
 May 14 Ruby-crowned Kinglet (2), Cape May Warbler (1),  
 Golden-crowned Kinglet (1), Brown Creeper(1).  
 May 15 Connecticut Warbler (1).  
 May 16 Myrtle Warbler(5), Bay-breasted Warbler(1), Black-throated Blue Warbler(15),  
 Black and White Warbler(20,2) Nashville Warbler(1).  
 May 19 Bonaparte Gull(4,15), Lesser Scaup Duck(3,2), Tennessee  
 Warbler(1,1), Solitary Sandpiper(1), White-throated  
 Sparrow (2,2,2,3), Golden Plover(1,1), Greater Yellow-  
 legs(1), Shoveller(1,2).  
 May 20 Red-breasted Nuthatch (1), Lesser Yellow-legs(1),  
 Blackburnian Warbler(1), Red-backed Sandpiper(15).

SPRING MIGRATION  
LAST RECORDS OF WINTER VISITORS AND TRANSIENTS

May 26 Gray-checked Thrush (1), White-crowned Sparrow(1).  
 May 21 Gadwall(2 - B.T.B.), Mourning Warbler(1)Wilson  
 Warbler(2,3) Ruddy Turnstone(10), Semipalmated Plover  
 (4), Canada Warbler (2 - M.B. Skaggs), Semipalmated  
 Sandpiper (3,1), Chestnut-sided Warbler(1), Magnolia  
 Warbler(1,1,2), Least Sandpiper(1), Least Flycatcher(1,2).  
 May 29 Black-poll Warbler (1 - M.B. Skaggs).  
 May 30 Olive-backed Thrush(1)

Errata: Bird Calendar 1934, Bulletin No.1, April 23.  
 Pg. 2, Headings of columns 3, 6, and 9 should read,  
 Index of Abundance, instead of Index of about.  
 Pg. 3, Headings of columns 3, 6, and 9 should read,  
 Index of Abundance, instead of Index of about.