

Report on the Spring Migration of 1918.

COMPILED BY WITMER STONE.

FORTY-SEVEN schedules were returned by the D. V. O. C. Migration Corps for the season of 1918 as listed below. Additional observers are desired especially at stations within ten miles of Philadelphia. Names of competent observers and applications for blank schedules should be sent to Dr. Witmer Stone, Academy of Natural Sciences, Logan Square, Philadelphia.

New Jersey.

Cape May, H. W. Hand.	Beverly, J. F. Street.
Atlantic City, Mrs. N. S. Cromie.	Moorestown, Miss A. A. Mickle, S. S. Haines, M. A. Linton, Mrs. V. Wierman, Wm. B. Evans and Miss L. M. Jacob.
Vineland, Mrs. A. K. Prince.	Rancocas, Miss E. Haines.
Downstown, W. W. Fair.	Allentown, Miss Emma Gordon.
Camden, J. K. Potter.	Bordentown, Miss M. V. Flynn.
Audubon, J. W. Tatum.	Beverly, D. G. Baird.
Mt. Holly, N. D. W. Pumyea.	

Pennsylvania.

Concordville, Miss E. P. and J. F. Styer.	Wayne, C. E. Alexander.
Media, Miss L. G. Allen.	West Chester, R. P. Sharples.
Moylan, Miss J. H. Binney.	West Chester, I. G. Roberts.
Swarthmore, Samuel C. Palmer.	West Chester, Miss S. C. DeHaven.
Addingham, D. E. Culver.	West Chester, Mrs. H. P. Brinton.
Ridley Park, R. L. Lloyd.	West Chester, C. E. Ehinger.
Lansdowne, J. D. Carter.	West Chester, C. K. Hummelsbach.
Lansdowne, G. H. Hallett, Jr.	Hatboro, Rev. A. Patman.
Cobb's Creek Park, W. Phila., G. Gordon Mahey and E. P. Richardson.	Three Tuns, Miss E. C. Cox.
Chestnut Hill, W. H. Trotter.	Langhorne, H. W. Fowler.
Germantown, Stewardson Brown.	Doylestown, G. MacReynolds.
	Forest Grove, Miss A. K. Bewley.

Frankford, R. F. Miller.	Buckingham, Miss E. C. Cox
Mt. Airy, S. H. and R. W.	and Miss E. D. Broadhurst.
Barker.	Collegeville, W. A. Kline.
Ardmore, W. L. Baily.	Reading, E. L. Poole.
Haverford, W. J. Serrill.	Lopez, Otto Behr.
Haverford, G. T. Scoville.	Altoona, H. A. McGraw.
Haverford, Edward Woolman.	

We would again urge study of the "suggestions" previously mailed* to all observers in order that each one may become familiar with the time at which the various species may be looked for. Records of rare species, or common species at unusually early dates, are ignored in the published summary unless some explanation is added showing that the observer is aware of the importance of his record. Kindly do not insert additional species on the front of the schedule as it adds to the task of the compiler which is in any case a laborious one. Write such species on the back according to instructions. We should also like to have as many separate schedules as possible. Please do not combine your report with that of another observer unless the work is actually done in company.

The season of 1918 was remarkable for the fact that we experienced the coldest weather for many years during January—unprecedented along the southern New Jersey coast, while in August we had the hottest temperature ever recorded in summer. Neither of these however seemed to have any appreciable effect on the migration.

The notable feature of the 1918 spring migration was the great scarcity of warblers and absence of the usual concentrated "waves." Arrival dates in the case of most species are consequently more scattered than usual. Figuring out the dates of "bulk arrival" in the usual way, we find that they average about two days late; some, where the departure from normal is greater, are obviously inaccurate because of the very insufficient data.

The earliest migrants—February and early March—were all a few days early, those of April and the first week of May several days late and those for the middle of May about normal.

* Copies to be had on application.

NAME.	Rancoocas, N. J. N. 4; E. 16.	Moorestown, N. J. N. 1; E. 12.	Camden, N. J. N. 0; E. 2.	Audubon, N. J. S. 4; E. 5.	Media, Pa. S. 2; W. 12.	Swarthmore, Pa. S. 3; W. 10.	Ridley Park, Pa. S. 5; W. 9.	Lansdowne, Pa. S. 1; W. 6.	Adingbham, Pa. S. 1; W. 8.	Haverford and Ardmore, Pa. N. 4; W. 8.	Wayne, Pa. N. 6; W. 11.	Cobb's Creek, W. Phila. N. 0; W. 4.	Gerantown, Phila. N. 6; W. 1.	Chestnut Hill, Phila. N. 8; W. 1.	Frankford, Phila. N. 5; E. 5.	Date of Bulk Arrival
Canada Goose	May 11	May 3	Apr. 20	May 13	May 4	May 16	May 9	May 9	May 11	Mar. 10	May 11	Apr. 20	Apr. 17	Apr. 17	Apr. 21	May 9
Green Heron	May 11	May 3	Apr. 5	May 13	May 10	Apr. 28	Apr. 28	Apr. 28	Apr. 21	Apr. 28	Apr. 21	May 8	Apr. 17	Apr. 17	Apr. 5	Apr. 21
Night Heron	May 11	May 3	Apr. 25	Apr. 25	Apr. 27	May 26	May 26	May 26	May 11	Apr. 28	Apr. 28	May 8	Apr. 17	Apr. 17	Apr. 5	Apr. 28
Spotted Sandpiper	Mar. 2	Mar. 6	Feb. 16	May 11	Mar. 7	Mar. 29	Mar. 6	Mar. 6	Mar. 6	Mar. 23	Mar. 23	May 25	Apr. 7	Apr. 7	Feb. 24	Mar. 7
Solitary Sandpiper	Mar. 2	Mar. 6	Feb. 16	May 11	Mar. 7	Mar. 29	Mar. 6	Mar. 6	Mar. 6	Mar. 23	Mar. 23	May 25	Apr. 7	Apr. 7	Feb. 24	Mar. 7
Killdeer	Mar. 2	Mar. 6	Feb. 16	May 11	Mar. 7	Mar. 29	Mar. 6	Mar. 6	Mar. 6	Mar. 23	Mar. 23	May 25	Apr. 7	Apr. 7	Feb. 24	Mar. 7
Dove	Mar. 2	Mar. 6	Feb. 16	May 11	Mar. 7	Mar. 29	Mar. 6	Mar. 6	Mar. 6	Mar. 23	Mar. 23	May 25	Apr. 7	Apr. 7	Feb. 24	Mar. 7
Osprey	Mar. 2	Mar. 6	Feb. 16	May 11	Mar. 7	Mar. 29	Mar. 6	Mar. 6	Mar. 6	Mar. 23	Mar. 23	May 25	Apr. 7	Apr. 7	Feb. 24	Mar. 7
Turkey Vulture	Res.	Mar. 16	Feb. 12	May 14	Mar. 3	Mar. 30	Apr. 14	Apr. 14	Apr. 14	Apr. 13	Apr. 13	May 14	May 19	Mar. 24	Mar. 30	Mar. 22
Yellow-billed Cuckoo	Res.	Mar. 16	Feb. 12	May 14	Mar. 3	Mar. 30	Apr. 14	Apr. 14	Apr. 14	Apr. 13	Apr. 13	May 14	May 19	Mar. 24	Mar. 30	Mar. 22
Black-billed Cuckoo	May 11	May 8	May 17	May 14	Mar. 3	Mar. 30	Apr. 14	Apr. 14	Apr. 14	Apr. 13	Apr. 13	May 14	May 19	Mar. 24	Mar. 30	Mar. 22
Kingfisher	Apr. 13	May 4	Jan. 13	Apr. 26	Jan. 20	Apr. 14	Apr. 28	Apr. 28	Apr. 28	Mar. 29	Mar. 29	May 25	May 15	May 17	Apr. 6	May 14
Yellow-bellied Sapsucker	Apr. 13	May 4	Jan. 13	Apr. 26	Jan. 20	Apr. 14	Apr. 28	Apr. 28	Apr. 28	Mar. 29	Mar. 29	May 25	May 15	May 17	Apr. 6	May 14
Red-headed Woodpecker	Apr. 13	May 4	Jan. 13	Apr. 26	Jan. 20	Apr. 14	Apr. 28	Apr. 28	Apr. 28	Mar. 29	Mar. 29	May 25	May 15	May 17	Apr. 6	May 14
Flicker	Mar. 19	Res.	Feb. 22	Mar. 24	Mar. 19	Mar. 19	Mar. 24	Mar. 24	Mar. 24	Mar. 29	Mar. 29	May 25	May 15	May 17	Apr. 6	May 14
Whip-poor-will	Apr. 25	May 8	May 12	May 12	Apr. 23	Apr. 23	Apr. 30	Apr. 30	Apr. 30	Mar. 29	Mar. 29	May 25	May 15	May 17	Apr. 6	May 14
Nighthawk	Apr. 25	May 8	May 12	May 12	Apr. 23	Apr. 23	Apr. 30	Apr. 30	Apr. 30	Mar. 29	Mar. 29	May 25	May 15	May 17	Apr. 6	May 14
Hummingbird	Apr. 26	Apr. 19	Apr. 28	Apr. 28	Apr. 26	Apr. 25	Apr. 28	Apr. 28	Apr. 28	Mar. 29	Mar. 29	May 25	May 15	May 17	Apr. 6	May 14
Chimney Swift	Apr. 26	Apr. 19	Apr. 28	Apr. 28	Apr. 26	Apr. 25	Apr. 28	Apr. 28	Apr. 28	Mar. 29	Mar. 29	May 25	May 15	May 17	Apr. 6	May 14
Kingbird	May 15	May 10	May 17	May 17	May 19	May 11	May 8	May 12	May 4	May 11	May 11	Apr. 30	May 16	May 16	May 6	May 11
Crested Flycatcher	May 7	May 5	May 5	May 5	May 8	May 12	May 7	May 9	May 3	May 4	May 4	Apr. 30	May 16	May 16	May 6	May 11
Phoebe	Apr. 6	Apr. 28	Apr. 18	Mar. 24	Mar. 23	Apr. 14	Mar. 17	Mar. 10	Mar. 18	Mar. 10	Mar. 18	Mar. 28	Apr. 7	Mar. 30	Mar. 22	Mar. 24

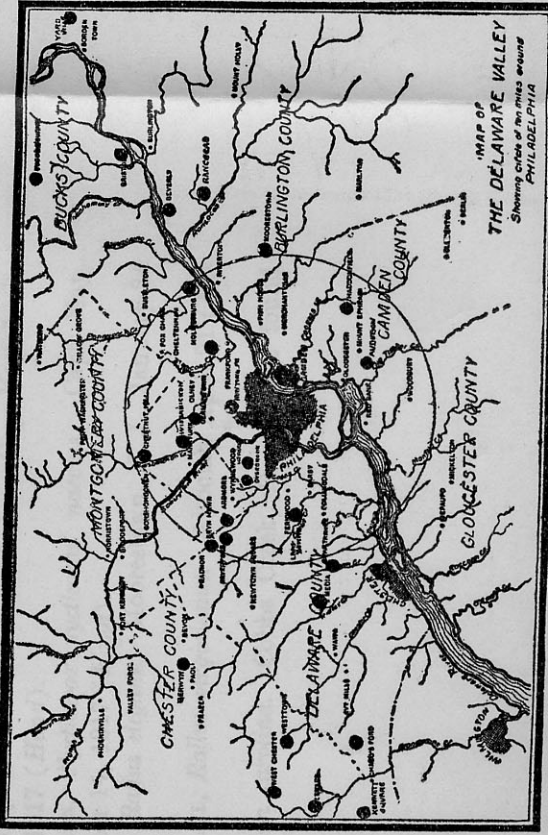
NAME.	Ranocas, N. J.	Moorestown, N. J.	Camden, N. J.	Audubon, N. J.	Media, Pa.	Swarthmore, Pa.	Ridley Park, Pa.	Lansdowne, Pa.	Addingham, Pa.	Haverford and Ardmore, Pa.	Wayne, Pa.	Gobb's Creek, W. Phila.	Germanstown.	Chestnut Hill.	Frankford, Phila.	Date of Bulk Arrival.
Wood Pewee	May 7	May 6	May 9	. . . . .	May 19	May 15	May 19	May 19	May 20	May 12	May 13	May 18	May 23	May 14	. . . . .	May 13
Acadian Flycatcher . . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	May 12	. . . . .	May 11	May 19	. . . . .	. . . . .	. . . . .
Least Flycatcher . . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	May 12	. . . . .	May 18	. . . . .	May 5	. . . . .	. . . . .
Bobolink . . . . .	. . . . .	. . . . .	. . . . .	May 13	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	May 12	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	May 12
Cowbird . . . . .	. . . . .	. . . . .	. . . . .	. . . . .	Mar. 31	Mar. 22	May 13	Mar. 28	May 4	Mar. 16	. . . . .	. . . . .	Apr. 21	. . . . .	Mar. 16	Mar. 28
Red-winged Blackbird	Feb. 26	Feb. 28	Feb. 24	Mar. 24	Mar. 22	Mar. 9	Apr. 28	Mar. 18	Mar. 6	Mar. 10	Mar. 1	Mar. 23	Mar. 10	. . . . .	Mar. 6	Mar. 6
Meadowlark	Res.	Res.	. . . . .	. . . . .	Mar. 13	Jan. 25	Mar. 10	Mar. 6	. . . . .	Mar. 10	Mar. 15	Mar. 6	Feb. 27	. . . . .	Mar. 2	Mar. 10
Orchard Oriole	May 6	May 7	May 12	. . . . .	May 3	May 5	. . . . .	May 12	May 2	May 4	. . . . .	May 15	May 12	. . . . .	. . . . .	May 7
Baltimore Oriole	May 9	May 6	May 9	May 13	Apr. 7	. . . . .	. . . . .	May 5	May 2	May 4	. . . . .	May 7	May 12	. . . . .	. . . . .	May 5
Rusty Blackbird	May 9	Apr. 30	Feb. 24	Apr. 7	Feb. 28	Feb. 28	Feb. 27	Feb. 27	Mar. 24	Mar. 24	. . . . .	. . . . .	Mar. 24	. . . . .	. . . . .	Mar. 24
Purple Grackle	Feb. 26	Feb. 20	Feb. 24	Mar. 17	Feb. 28	Feb. 28	Feb. 27	Feb. 27	Mar. 24	Mar. 23	Feb. 12	Feb. 28	Feb. 19	Mar. 2	Mar. 2	Feb. 27
Vesper Sparrow	Apr. 1	Apr. 1	Mar. 28	Mar. 24	. . . . .	Apr. 20	. . . . .	Mar. 24	Mar. 31	Mar. 23	. . . . .	Mar. 29	May 16	. . . . .	Mar. 8	Mar. 28
Savannah Sparrow . . . . .	. . . . .	. . . . .	Mar. 31	Apr. 7	. . . . .	. . . . .	. . . . .	Apr. 14	. . . . .	Apr. 7	. . . . .	Apr. 4	. . . . .	Mar. 31	Mar. 24	. . . . .
Grasshopper Sparrow	May 7	May 5	. . . . .	Apr. 23	. . . . .	. . . . .	. . . . .	May 12	. . . . .	May 4	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	May 4
Chipping Sparrow	Mar. 30	Mar. 31	Apr. 6	Apr. 21	Apr. 14	Mar. 30	Apr. 18	Apr. 7	Apr. 15	Apr. 5	. . . . .	Apr. 3	May 16	Apr. 15	Apr. 6	Apr. 5
Field Sparrow	Mar. 30	Mar. 20	Mar. 17	Jan. 24	Mar. 22	Apr. 3	Apr. 7	Apr. 7	. . . . .	Mar. 10	. . . . .	Mar. 18	May 24	May 30	Mar. 9	Mar. 20
Swamp Sparrow	May 2	Apr. 28	Jan. 27	Mar. 24	. . . . .	Apr. 3	. . . . .	Mar. 29	. . . . .	Mar. 29	. . . . .	Apr. 2	May 24	Apr. 23	. . . . .	. . . . .
Fox Sparrow . . . . .	. . . . .	Mar. 19	Mar. 2	. . . . .	Mar. 14	Mar. 10	Apr. 20	Apr. 20	. . . . .	Feb. 24	Feb. 28	Feb. 28	Mar. 17	Mar. 9	Mar. 1	Feb. 28
Cheewink	Apr. 26	Apr. 19	Apr. 16	Apr. 25	Apr. 13	Apr. 23	Apr. 30	Apr. 30	Apr. 6	Apr. 20	Mar. 18	Mar. 30	May 5	May 1	Apr. 14	Mar. 19
Rose-breasted Grosbeak	May 7	May 11	May 8	May 19	Apr. 23	Apr. 23	Apr. 7	May 7	May 8	May 8	Mar. 30	Mar. 30	May 5	Apr. 1	Apr. 1	May 8
Indigobird	May 11	May 7	May 1	May 13	May 14	May 8	May 19	May 6	. . . . .	May 11	. . . . .	May 10	May 9	May 9	. . . . .	May 9
Scarlet Tanager	May 11	May 6	May 11	May 16	May 11	May 7	May 7	May 7	May 11	May 6	Mar. 14	May 9	May 12	May 9	. . . . .	May 9
Purple Martin . . . . .	. . . . .	Apr. 16	. . . . .	May 13	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	May 2	. . . . .	. . . . .	. . . . .	. . . . .

NAME.	Ranocas, N. J.	Moorestown, N. J.	Camden, N. J.	Audubon, N. J.	Media, Pa.	Swarthmore, Pa.	Ridley Park, Pa.	Lansdowne, Pa.	Addingham, Pa.	Haverford and Ardmore, Pa.	Wayne, Pa.	Cobb's Creek, W. Phila.	Germanstown.	Chestnut Hill.	Frankford.	Date of Bulk Arrival.
Cliff Swallow	Apr. 23	Apr. 30	May 1	Apr. 25		Apr. 23		Apr. 28	May 8	Apr. 27		May 1	May 1		Apr. 18	Apr. 27
Barn Swallow	May 11	May 5	Apr. 17	May 19			May 8			May 11		May 1				
Tree Swallow			May 12	May 16						Apr. 28						
Bank Swallow			May 12	May 19						Apr. 14						
Rough-winged Swallow			May 12	May 21						Apr. 14						
Cedarbird	May 7	May 24	May 7	May 21		May 11		May 12	May 11	May 8		May 3	Mar. 5			
Red-eyed Vireo	May 7	May 7	May 11			May 11		May 7	May 11	May 8		May 9	May 15	May 6		May 7
Warbling Vireo	May 9	May 2				May 21		May 7	May 11	May 6		May 11	May 15	May 9		May 9
Yellow-throated Vireo		May 8				May 21		May 8		May 8		May 7	May 14	May 8		May 8
Solitary Vireo			May 5			May 4				May 3		May 11				May 5
White-eyed Vireo	May 3	May 3	May 12			May 4		May 12		May 5		Apr. 29	May 4			May 1
Black and White Warbler	May 1	May 1	Apr. 30	May 5	May 8	Apr. 23	May 5	May 1		May 1		May 18	May 13			May 5
Worm-eating Warbler										May 12		May 11	May 13			May 1
Blue-winged Warbler			May 5		May 19	May 7				May 8		May 10	May 11			May 8
Parula Warbler	May 11	May 5	May 6	May 14		May 11	May 3	May 9	May 12	May 7		May 8	May 10			May 8
Yellow Warbler	Apr. 28	Apr. 25	May 5	Apr. 28		May 18	May 3	Apr. 30	May 12	May 10		May 8	May 11			May 3
Black-throated Blue Warbler		May 3	May 6			May 18	May 3	May 6	May 15	May 3		May 9	May 10			May 6
Myrtle Warbler	May 7	Apr. 28	Apr. 20	Apr. 23	Apr. 19	Apr. 27	Apr. 28	May 1	Apr. 19	Apr. 21		Apr. 20	May 5			Apr. 22
Magnolia Warbler		May 7				May 12	May 5	May 12	May 12	May 11		May 11	May 15	May 8		May 11
Chestnut-sided Warbler		May 7	May 9	May 17	May 14	May 6		May 9	May 16	May 8		May 11	May 15	May 8		May 11
Black-poll Warbler		May 11	May 9	May 17	May 14	May 15		May 9	May 15	May 9		May 3	May 15	May 12		May 9
Blackburnian Warbler		May 11	May 11	May 26		May 11		May 9	May 15	May 11		May 15	May 16			May 12
Black-throated Green Warbler	May 10	May 5	May 5			May 5		May 9	May 12	May 3		Apr. 29	May 13	May 11		May 5

NAME.	Ranococas, N. J.	Moorestown, N. J.	Camden, N. J.	Audubon, N. J.	Media, Pa.	Swarthmore, Pa.	Ridley Park, Pa.	Lansdowne, Pa.	Addingham, Pa.	Haverford and Ardmore, Pa.	Wayne, Pa.	Cobb's Creek, W. Phila.	Germanstown.	Chestnut Hill.	Frankford.	Date of Bulk Arrival.
Pine Warbler	Apr. 22	Apr. 16	Apr. 21	Apr. 21	Apr. 18	Apr. 17	Apr. 14	Apr. 17	Apr. 18	Apr. 16	Apr. 17	Apr. 18	Apr. 19	Apr. 19	Apr. 19	Apr. 19
Yellow Palm Warbler	Apr. 30	Apr. 16	Apr. 21	Apr. 21	Apr. 18	Apr. 17	Apr. 14	Apr. 17	Apr. 18	Apr. 16	Apr. 17	Apr. 18	Apr. 19	Apr. 19	Apr. 19	Apr. 19
Prairie Warbler	May 11	May 1	May 1	May 1	May 7	May 7	May 6	May 6	May 6	May 3	May 3	May 3	May 4	May 5	May 5	May 3
Ovenbird	May 2	May 5	May 5	May 5	May 3	Apr. 30	May 1	May 3	May 4	May 1	May 1	May 1	May 1	May 1	May 1	May 3
Water Thrush	May 10	May 9	May 13	May 13	May 8	May 7	May 7	May 7	May 7	May 7	May 7	May 7	May 7	May 7	May 7	May 7
Kentucky Warbler	Apr. 28	May 2	Apr. 28	Apr. 28	May 4	May 4	May 4	Apr. 28	May 5	May 4	May 4	May 4	May 4	May 4	May 4	May 9
Maryland Yellow throat	May 3	May 12	May 12	May 12	May 7	May 7	May 7	May 6	May 6	May 5	May 5	May 5	May 5	May 5	May 5	May 9
Chat	May 11	May 24	May 17	May 17	May 7	May 7	May 7	May 6	May 6	May 5	May 5	May 5	May 5	May 5	May 5	May 9
Canada Warbler	May 11	May 8	May 12	May 12	May 20	May 20	May 20	May 6	May 6	May 5	May 5	May 5	May 5	May 5	May 5	May 9
Redstart	Apr. 30	May 2	Apr. 30	Apr. 30	Apr. 23	Apr. 23	May 2	Apr. 30	May 3	May 3	May 3	May 3	May 4	May 5	May 5	May 8
Catbird	Apr. 19	Apr. 29	Mar. 31	Apr. 23	Apr. 23	Apr. 23	Apr. 14	May 12	Apr. 19	Apr. 22	May 2	Apr. 26	May 4	May 5	May 5	May 8
Brown Thrasher	Apr. 25	Apr. 20	Apr. 25	Apr. 25	Apr. 23	Apr. 23	Apr. 30	Apr. 27	Apr. 28	Apr. 23	May 2	Apr. 26	May 4	May 5	May 5	May 8
House Wren	Apr. 25	Apr. 20	Apr. 25	Apr. 25	Apr. 23	Apr. 23	Apr. 30	Apr. 27	Apr. 28	Apr. 23	May 2	Apr. 26	May 4	May 5	May 5	May 8
Long-bill'd Marsh Wren	Apr. 30	Apr. 18	Apr. 20	Apr. 20	Apr. 18	Apr. 17	Apr. 14	Apr. 17	Apr. 18	Apr. 16	Apr. 17	Apr. 18	Apr. 18	Apr. 19	Apr. 19	Apr. 20
Ruby-crowned Kinglet	May 2	May 2	Apr. 30	Apr. 30	Apr. 18	Apr. 17	Apr. 14	Apr. 17	Apr. 18	Apr. 16	Apr. 17	Apr. 18	Apr. 18	Apr. 19	Apr. 19	Apr. 20
Wood Thrush	May 2	May 2	Apr. 30	Apr. 30	Apr. 18	Apr. 17	Apr. 14	Apr. 17	Apr. 18	Apr. 16	Apr. 17	Apr. 18	Apr. 18	Apr. 19	Apr. 19	Apr. 20
Wilson's Thrush	May 2	May 2	Apr. 30	Apr. 30	Apr. 18	Apr. 17	Apr. 14	Apr. 17	Apr. 18	Apr. 16	Apr. 17	Apr. 18	Apr. 18	Apr. 19	Apr. 19	Apr. 20
Gray-cheeked Thrush	May 2	May 2	Apr. 30	Apr. 30	Apr. 18	Apr. 17	Apr. 14	Apr. 17	Apr. 18	Apr. 16	Apr. 17	Apr. 18	Apr. 18	Apr. 19	Apr. 19	Apr. 20
Olive-backed Thrush	May 2	May 2	Apr. 30	Apr. 30	Apr. 18	Apr. 17	Apr. 14	Apr. 17	Apr. 18	Apr. 16	Apr. 17	Apr. 18	Apr. 18	Apr. 19	Apr. 19	Apr. 20
Hermit Thrush	Apr. 16	Apr. 16	Apr. 7	Apr. 7	Apr. 15	Apr. 15	Apr. 15	Apr. 15	Apr. 15	Apr. 13	Apr. 15	Apr. 15	Apr. 15	Apr. 15	Apr. 15	Apr. 15
Robin	Feb. 25	Mar. 2	Mar. 2	Mar. 2	Feb. 20	Feb. 26	Feb. 29	Feb. 22	Feb. 28	Feb. 22	Feb. 28	Feb. 27	Feb. 28	Mar. 2	Mar. 1	Feb. 25
Bluebird	Feb. 23	Feb. 24	Feb. 24	Feb. 24	Feb. 20	Feb. 26	Feb. 29	Feb. 22	Feb. 28	Feb. 22	Feb. 28	Feb. 27	Feb. 28	Mar. 2	Mar. 1	Feb. 25

Names.	Cape May, N. J.	Vineland, N. J.	Downtown, N. J.	Concordville, Pa.	West Chester, Pa.	Hatboro, Pa.	Beverly, N. J.	Bordentown, N. J.	Allentown, N. J.	Mr. Holly, N. J.	Three Tuns, Pa.	Doylestown, Pa.	Buckingham, Pa.	Forest Grove, Pa.	Collegeville, Pa.	Reading, Pa.	Lopez, Pa.	Altoona, Pa.
Flicker.....	Mar. 2	Res.	Mar. 18	Res.	Mar. 9	Res.	Mar. 4	Mar. 25	Res.	May 14	Feb. 25	Mar. 17	Feb. 25	Mar. 8	Mar. 19	Mar. 12	Mar. 31	Mar. 31
Whip-poor-will.....	May 4	Apr. 2	Apr. 19	May 5	May 16	May 6	May 6	.....	.....	May 30	.....	.....	.....	.....	May 15	Mar. 12	Mar. 31	W. 176; N. 38.
Nighthawk.....	Apr. 29	Apr. 18	May 2	Apr. 19	Apr. 19	May 30	May 30	.....	.....	Apr. 20	.....	.....	.....	.....	May 15	May 7	May 7	W. 60; N. 103.
Chimney Swift.....	May 25	May 23	May 1	May 11	May 3	May 11	May 11	Apr. 20	May 8	May 3	May 18	Apr. 24	Apr. 22	Apr. 29	Apr. 24	May 7	May 7	W. 49; N. 16.
Hummingbird.....	May 4	May 4	May 6	May 2	May 3	Apr. 29	May 12	May 10	Mar. 14	May 7	May 6	May 15	May 20	May 8	May 7	May 4	May 12	May 11
Kingbird.....	May 1	May 2	May 3	May 8	May 8	May 6	.....	May 6	May 12	May 11	May 12	May 6	May 6	May 4	May 7	May 18
Crested Flycatcher.....	May 6	May 20	May 15	Apr. 16	Apr. 16	Apr. 2	.....	Mar. 24	May 23	Mar. 19	Mar. 31	Mar. 7	Mar. 30	Mar. 20	Mar. 20	May 11
Phoebe.....	May 7	May 7	May 10	May 3	Apr. 16	Apr. 2	.....	Mar. 24	May 23	Mar. 19	Mar. 31	Mar. 7	Mar. 30	Mar. 20	Mar. 20	May 11
Bobolink.....	May 10	May 7	May 10	May 3	Apr. 16	Apr. 2	.....	Mar. 24	May 23	Mar. 19	Mar. 31	Mar. 7	Mar. 30	Mar. 20	Mar. 20	May 11
Cowbird.....	May 10	May 7	May 10	May 3	Apr. 16	Apr. 2	.....	Mar. 24	May 23	Mar. 19	Mar. 31	Mar. 7	Mar. 30	Mar. 20	Mar. 20	May 11
Red-winged Blackbird.....	May 10	May 7	May 10	May 3	Apr. 16	Apr. 2	.....	Mar. 24	May 23	Mar. 19	Mar. 31	Mar. 7	Mar. 30	Mar. 20	Mar. 20	May 11
Baltimore Oriole.....	May 10	May 7	May 10	May 3	Apr. 16	Apr. 2	.....	Mar. 24	May 23	Mar. 19	Mar. 31	Mar. 7	Mar. 30	Mar. 20	Mar. 20	May 11
Purple Grackle.....	May 10	May 7	May 10	May 3	Apr. 16	Apr. 2	.....	Mar. 24	May 23	Mar. 19	Mar. 31	Mar. 7	Mar. 30	Mar. 20	Mar. 20	May 11
Chipping Sparrow.....	May 10	May 7	May 10	May 3	Apr. 16	Apr. 2	.....	Mar. 24	May 23	Mar. 19	Mar. 31	Mar. 7	Mar. 30	Mar. 20	Mar. 20	May 11
Chewink.....	May 10	May 7	May 10	May 3	Apr. 16	Apr. 2	.....	Mar. 24	May 23	Mar. 19	Mar. 31	Mar. 7	Mar. 30	Mar. 20	Mar. 20	May 11
Indigobird.....	May 10	May 7	May 10	May 3	Apr. 16	Apr. 2	.....	Mar. 24	May 23	Mar. 19	Mar. 31	Mar. 7	Mar. 30	Mar. 20	Mar. 20	May 11
Scarlet Tanager.....	May 10	May 7	May 10	May 3	Apr. 16	Apr. 2	.....	Mar. 24	May 23	Mar. 19	Mar. 31	Mar. 7	Mar. 30	Mar. 20	Mar. 20	May 11
Purple Martin.....	May 10	May 7	May 10	May 3	Apr. 16	Apr. 2	.....	Mar. 24	May 23	Mar. 19	Mar. 31	Mar. 7	Mar. 30	Mar. 20	Mar. 20	May 11
Barn Swallow.....	May 10	May 7	May 10	May 3	Apr. 16	Apr. 2	.....	Mar. 24	May 23	Mar. 19	Mar. 31	Mar. 7	Mar. 30	Mar. 20	Mar. 20	May 11
Red-eyed Vireo.....	May 10	May 7	May 10	May 3	Apr. 16	Apr. 2	.....	Mar. 24	May 23	Mar. 19	Mar. 31	Mar. 7	Mar. 30	Mar. 20	Mar. 20	May 11
Black-and-white Warbler.....	May 10	May 7	May 10	May 3	Apr. 16	Apr. 2	.....	Mar. 24	May 23	Mar. 19	Mar. 31	Mar. 7	Mar. 30	Mar. 20	Mar. 20	May 11
Chestnut-sided Warbler.....	May 10	May 7	May 10	May 3	Apr. 16	Apr. 2	.....	Mar. 24	May 23	Mar. 19	Mar. 31	Mar. 7	Mar. 30	Mar. 20	Mar. 20	May 11
Ovenbird.....	May 10	May 7	May 10	May 3	Apr. 16	Apr. 2	.....	Mar. 24	May 23	Mar. 19	Mar. 31	Mar. 7	Mar. 30	Mar. 20	Mar. 20	May 11
Maryland Yellow-throat.....	May 10	May 7	May 10	May 3	Apr. 16	Apr. 2	.....	Mar. 24	May 23	Mar. 19	Mar. 31	Mar. 7	Mar. 30	Mar. 20	Mar. 20	May 11
Chat.....	May 10	May 7	May 10	May 3	Apr. 16	Apr. 2	.....	Mar. 24	May 23	Mar. 19	Mar. 31	Mar. 7	Mar. 30	Mar. 20	Mar. 20	May 11
Catbird.....	May 10	May 7	May 10	May 3	Apr. 16	Apr. 2	.....	Mar. 24	May 23	Mar. 19	Mar. 31	Mar. 7	Mar. 30	Mar. 20	Mar. 20	May 11
Brown Thrasher.....	May 10	May 7	May 10	May 3	Apr. 16	Apr. 2	.....	Mar. 24	May 23	Mar. 19	Mar. 31	Mar. 7	Mar. 30	Mar. 20	Mar. 20	May 11
House Wren.....	May 10	May 7	May 10	May 3	Apr. 16	Apr. 2	.....	Mar. 24	May 23	Mar. 19	Mar. 31	Mar. 7	Mar. 30	Mar. 20	Mar. 20	May 11
Wood Thrush.....	May 10	May 7	May 10	May 3	Apr. 16	Apr. 2	.....	Mar. 24	May 23	Mar. 19	Mar. 31	Mar. 7	Mar. 30	Mar. 20	Mar. 20	May 11
Hermit Thrush.....	May 10	May 7	May 10	May 3	Apr. 16	Apr. 2	.....	Mar. 24	May 23	Mar. 19	Mar. 31	Mar. 7	Mar. 30	Mar. 20	Mar. 20	May 11
Robin.....	May 10	May 7	May 10	May 3	Apr. 16	Apr. 2	.....	Mar. 24	May 23	Mar. 19	Mar. 31	Mar. 7	Mar. 30	Mar. 20	Mar. 20	May 11
Bluebird.....	May 10	May 7	May 10	May 3	Apr. 16	Apr. 2	.....	Mar. 24	May 23	Mar. 19	Mar. 31	Mar. 7	Mar. 30	Mar. 20	Mar. 20	May 11

TABLE II.
 SPRING MIGRATION, 1918.
 EARLIEST DATES OF ARRIVAL OF
 THIRTY-TWO SPECIES AT EIGHTEEN
 STATIONS OUTSIDE THE PHILADEL-
 PHIA CIRCLE.



*List of Other Species Reported by Observers during 1918, and
Additional Notes on Species Contained in the Schedule.*

Autumnal Dates Refer to Autumn of 1917

*Unless Otherwise Stated.**

HORNED GREBE, *Colymbus auritus*. Altoona, April 14 (*McGraw*).

PIED-BILLED GREBE, *Podilymbus podiceps*. Fish House, March 20 (*Potter*); Altoona, March 10 (*McGraw*).

LOON, *Gavia immer*. Springfield, April 14; one heard flying over (*Hallett*) Brandywine near West Chester, March 28, a pair (*Brinton*), Fish House, N. J., May 5 (*Potter*); Cape May, N. J., April 3 (*Hand*).

GLAUCOUS GULL, *Larus hyperboreus* on river at Philadelphia, January 1-4, 1918 (*Erskine*).

HERRING GULL, *Larus argentatus*. Mt. Holly, N. J., February 12, one flew over (*Pumyea*); Lansdowne, February 10, six flying south-west (*Carter*); Frankford, October 12 (*Miller*); Haverford, February 10, two flew over (*Baily*); Chadds Ford, large flock on the Brandywine all winter (*Sharples*); Lopez, two shot November, 1917, and another seen April 8 (*Behr*).

BONAPARTE'S GULL, *Larus philadelphia*. Fish House, N. J., April 24, flock of 15 (*Potter*); Chester, November 27 and 29, 1918 (*Carter*).

LAUGHING GULL, *Larus atricilla*. Cape May, N. J., April 26 (*Hand*).

MERGANSEER, *Mergus americanus*. Fish House, N. J., February 27-April 20 (*Potter*); Moorestown, N. J., December 25, ten (*Hallett*); Richmond, February 11 and 14 (*Miller*); Doylestown (on the Neshaminy), 2 on March 17 and flock on March 24 (*MacReynolds*).

BLACK DUCK, *Anas rubripes*. Fish House, N. J., March 22, fifteen (*Potter*); Richmond, February 15 (*Miller*); Concordville, March 14 (*Styer*); Bernville, Berks Co., March 23 (*Poole*).

MALLARD, *Anas platyrhynchos*. Haverford, male and two females, April 14 (*Serrill*).

* Localities are in Pennsylvania unless otherwise marked.

BLUE-WINGED TEAL, *Querquedula discors*. Salem, N. J., April 28, six (*Potter*).

GREEN-WINGED TEAL, *Nettion carolinense*. Bernville, Bucks Co., two March 23 (*Poole*).

BALDPATE, *Mareca americana*. Reading, March 16, two (*Poole*).

PINTAIL, *Dafila acuta*. Fish House, N. J., March 13, ten (*Potter*); Richmond, February 15 and 28, large flocks (*Miller*).

WOOD DUCK, *Aix sponsa*. Blue Marsh near Reading, August 25 (*Poole*).

LESSER SCAUP, *Marila affinis*. Reading, November 2, 1917, and March 28 (*Poole*); Altoona, April 7 (*McGraw*).

REDHEAD, *Marila americana*. Fish House, N. J., March 16, two (*Potter*); Reading, March 12 and 16 (*Poole*).

GOLDEN-EYE, *Clangula americana*. Richmond, January 18, two, and February 14 (*Miller*).

CANADA GOOSE, *Branta canadensis canadensis*, Chester, February 19 (*Carter*).

WHISTLING SWAN. *Olor columbianus*. Kinkora, N. J., March 3 (*Baird*).

BITTERN, *Botaurus lentiginosus*. Camden, N. J., April 21 (*Potter*).

GREAT BLUE HERON, *Ardea herodias herodias*. Moorestown, N. J., May 3 (*Mickle*); Camden, N. J., February 24 (*Potter*); Salem, N. J., April 28, twenty nests, one with young (*Potter*); Haverford, April 20 (*Serrill*); Reading, December 1, 1917 (*Poole*); Wenonah, N. J., January 6, 1918 (*Erskine*).

LITTLE BLUE HERON, *Florida caerulca*. Oaks, Montgomery Co., two June 30 (*Poole*).

GREEN HERON, *Butorides virescens virescens*. Cape May, N. J., November 4, 1917 (*Hand*).

NIGHT HERON, *Nycticorax nycticorax naevius*. Cape May, N. J., December 14, 1917 (*Hand*).

KING RAIL, *Rallus elegans*. Moorestown, N. J., January 24 (*Evans*).

VIRGINIA RAIL, *Rallus virginianus*. Altoona, April 21 (*McGraw*).

SORA, *Porzana carolina*. Cobbs Creek, May 6, one found

dead (*Mahey*); Bridesburg, June 13, nest and five eggs, and November 14, 1917, one seen (*Miller*); West Grove, one found dead October 1, 1917 (*Roberts*); Altoona, two on May 5 (*McGraw*).

FLORIDA GALLINULE, *Galinula galeata*. Increasing as summer resident at Bridesburg (*Miller*).

WOODCOCK, *Philohela minor*. Audubon, N. J., May 26 (*Tatum*); Cape May, N. J., large flight on November 3-6, probably 500 shot at Cape May Point, and 200 in lower Twp., young just able to fly on May 1 (*Hand*); Addingham, April 16 (*Culver*); West Philadelphia, March 30 (*Mahey*); Torresdale, June 30 (*Miller*); Reading, March 12 (*Poole*); Lopez, April 10, two (*Behr*); Altoona, nest and four eggs, May 12 (*McGraw*).

WILSON'S SNIPE, *Gallinago delicata*. Camden, N. J., April 10-May 12 (*Potter*); Cape May, N. J., March 19 (*Hand*); Richmond, November 28 (*Miller*); Forest Grove, April 3 (*Bewley*); Reading, April 13 (*Poole*); Altoona, May 5 (*McGraw*).

LEAST SANDPIPER, *Pisobia minutilla*. Moorestown, N. J., May 12 (*Mickle*); Reading, May 6 and 18 (*Poole*).

PECTORAL SANDPIPER, *Pisobia maculata*. Reading, April 7, feeding on mud flats with Killdeers (*Poole*).

GREATER YELLOW-LEGS, *Totanus melanoleucus*. Camden, N. J., April 28-May 17 (*Potter*); Audubon, N. J., May 13 (*Tatum*); Cape May, N. J., March 19 (*Hand*); Concordville, March 29 (*Styer*); Reading, October 6 and 16 (*Poole*); Altoona, May 9 (*McGraw*).

LESSER YELLOW-LEGS, *Totanus flavipes*. Reading, August 18 and October 6, 1917 (*Poole*).

HUDSONIAN CURLEW, *Numenius hudsonicus*. Cape May, N. J., April 26 (*Hand*).

UPLAND PLOVER, *Bartramia longicauda*. Salem, N. J., April 28, two (*Potter*); Gwynedd Valley, June 20, a pair (*Miller*); Forest Grove, May 3 (*Bewley*); Bernville, Bucks Co., June 24, 1917; Reading, August 22, 1917, and April 27, and Hamburg, July 28, 1917 (*Poole*).

BLACK-BELLIED PLOVER, *Squatarola squatarola*. Cape May, N. J., April 26 (*Hand*).

SEMPALMATED PLOVER, *Aegialitis semipalmata*. Cape May, N. J., April 26 (*Hand*).

Paoli, May 11, nest in a cedar, five young (*Baily*); West Chester, six from January 6 to late February (*Ehinger*).

BARN OWL, *Aluco pratincola*. Collingswood, N. J., December 23, 1917 (*Potter*); Lansdowne, April 17-25 (*Carter*); Holmesburg, January 9 (*Miller*).

GREAT HORNED OWL, *Bubo virginianus virginianus*. Doylestown, twelve killed in northern Bucks Co. during the winter (*MacReynolds*); Salem, N. J., nest with two eggs, March 2 (*Street*); Smyrna, Del., March 9, nest with one egg (*Street*).

SNOWY OWL, *Nyctea nyctea*. Moorestown, N. J., January 11, 1918 (*Linton*); one shot at Norristown, November 5, 1918 (*Regar*).

SAW-WHET OWL, *Nyctala acadica*. Lansdowne, two heard nightly in the same yard, September 19-October 10 (*Hallett*); saw one of them on two occasions.

FLICKER, *Colaptes auratus luteus*. Lansdowne, November 1 (*Hallett*); Gwynedd Valley, December 1, January 11 and 24 (*Miller*); Moorestown, N. J., December 25-26, 1917.

RED-HEADED WOODPECKER, *Melanerpes erythrocephalus*. W. Philadelphia, digging nest May 18 (*Mahey*).

KINGFISHER, *Ceryle alcyon alcyon*. Moorestown, N. J., December 25, 1917, two (*Hallett*); Darby, January 5 (*Culver*).

WHIP-POOR-WILL, *Antrostomus vociferus*. Singing in the early morning, April 30-May 2 (*Carter*).

HUMMINGBIRD, *Archilocus colubris*. Cape May, N. J., October 1, 1917 (*Hand*); Vineland, N. J., September 28 (*Prince*).

HORNED LARK, *Otocoris alpestris alpestris*. Moorestown, N. J., January 25 (*Evans*); Frankford, January 19 (*Miller*); Concordville, January 20-February 12 (*Styer*); Reading, December 1, 8, 1917, and April 13 (*Poole*); Altoona, April 23 (*McGraw*).

PRAIRIE HORNED LARK, *Otocoris alpestris praticola*. Lyons, Berks Co., November 17, 1917 (*Poole*).

OLIVE-SIDED FLYCATCHER, *Nuttallornis borealis*. Reading, August 22 (*Poole*); Lopez, May 17 (*Behr*); Holidaysburg, May 26 (*McGraw*).

YELLOW-BELLIED FLYCATCHER, *Empidonax flaviventris*. Altoona, May 17 (*McGraw*).

BLUE JAY, *Cyanocitta cristata cristata*. Lansdowne, none from

November 6 to May 31 (*Hallett*); W. Philadelphia, none from December 25 to May 3 (*Mahy*); Fort Washington, one December 27 (*Miller*).

BOBOLINK, *Dolichonyx oryzivorus*. Altoona, June 3, breeding at Dysart's Park (*McGraw*).

STARLING, *Sturnus vulgaris*. Wayne, very abundant during zero weather and ate all the suet and food put out for other birds, driving away the Juncos, English Sparrows, Downy Woodpeckers and even a Blue Jay (*Alexander*); seen near Holidaysburg, April 3 (*McGraw*).

MEADOWLARK, *Sturnella magna magna*. Cape May, N. J., frequent in the streets during the intense cold of January feeding on horse droppings, one lived in a narrow alley by the post office (*Hand*).

PURPLE GRACKLE, *Quiscalus quiscula quiscula*. Lansdowne, November 16 and December 27, 1917 (*Hallett*); Gwynedd Valley, November 24, 1917 (*Miller*).

RUSTY BLACKBIRD, *Euphagus carolinus*. Gwynedd Valley, flock of 16 November 3 (*Miller*); Wenonah, N. J., January 6, 1918 (*Erskine*).

RED CROSSBILL, *Lopia curvirostra minor*. New Lisbon, N. J., February 17, 1918 (*Scoville*).

REDPOLL, *Acanthis linaria linaria*. Lansdowne, January 1, one in company with White-throated Sparrows (*Hallett*).

SNOW BUNTING, *Plectrophenax nivalis nivalis*. Richmond, one shot December 22, 1917 (*Miller*).

PURPLE FINCH, *Carpodacus purpureus purpureus*. Rancocas, N. J., April 20 (*Haines*); Moorestown, N. J., April 16-May 4 (*Linton*); Swarthmore, April 22 (*Palmer*); Lansdowne, April 7, 19 and 20 (*Hallett*); West Philadelphia, March 2-May 2 (*Mahy*); Chestnut Hill, large flock April 9-21 (*Trotter*); Manoa, April 6 (*Miller*); Concordville, April 19 (*Styer*); Haverford, April 13, large flock (*Serrill*); Vineland, N. J., January 21, a pair, March 25 and April 10 and 24 (*Prince*); Mt. Holly, N. J., December 16 and February 17 (*Pumyea*); West Chester, November 4-May 4 (*Roberts*); Reading, December 1-April 20 (*Poole*); Haverford, November 4-May 10 (*Scoville*).

GOLDFINCH, *Astragalinus tristis tristis*. Moorestown, N. J., April 28, May 8 (*Mickle*); Swarthmore, April 29, abundant

(*Palmer*); Lansdowne, April 28 and after, abundant (*Hallett*); Addingham, May 4, abundant (*Culver*); West Philadelphia, common after April 6 (*Mahy*); West Chester, none until March 24 (*Roberts*); Reading, November 17–March 29 (*Poole*); Altoona, May 4 (*McGraw*).

SISKIN (*Spinus pinus*) Haverford, April 14 (*Scoville*).

SEASIDE SPARROW, *Passerherbulus maritimus maritimus*. Cape May, N. J., nest and three eggs May 26 (*Potter*).

WHITE-CROWNED SPARROW, *Zonotrichia leucophrys leucophrys*. Reading, October 19 (*Poole*).

WHITE-THROATED SPARROW, *Zonotrichia albicollis*. Moorestown, N. J., October 22–May 12 (*Mickle*); West Philadelphia, October 17–May 15, very common after April 13 (*Mahy*); Frankford, September 23–December and April 22 (*Miller*); Vineland, N. J., September 21–May 11 (*Prince*); Mt. Holly, N. J., September 30–May 14 (*Pumyea*); Three Tuns, October 30–December 3 and April 14–May 18 (*Cox*); Doylestown, December 23, one and then none until April 18–May 12 (*MacReynolds*); Lansdowne, April 17–May 3, none wintered (*Hallett*); Concordville, none wintered, April 16, first seen (*Styer*); West Chester, first seen April 16 (*Ehinger*); Altoona, May 5 (*McGraw*); Ridley Park, last seen May 5 (*Lloyd*).

JUNCO, *Junco hyemalis hyemalis*. Moorestown, N. J., October 22–May 2 (*Mickle*); Lansdowne, October 2–April 14 (*Hallett*); West Philadelphia, October 17–April 30 (*Mahy*); Mt. Holly, N. J., October 7–April 23 (*Pumyea*); West Chester, October 7–April 20 (*Roberts*); Doylestown, October 14–April 24 (*MacReynolds*); Reading, October 14–April 28 (*Poole*); Altoona, November 25–April 26 (*McGraw*); Haverford, October 7–May 4 (*Scoville*); last seen at Ridley Park, April 21 (*Lloyd*); Downstown, N. J., April 19 (*Fair*).

TREE SPARROW, *Spizella monticola monticola*. Frankford, October 31–March (*Miller*); Mt. Holly, N. J., October 16–April 6 (*Pumyea*); West Chester, November 11–February 23 (*Roberts*); Doylestown, November 4–March 26 (*MacReynolds*); Reading, November 4–March 23 (*Poole*); Altoona, November 4–February 24 (*McGraw*); last seen, Moorestown, N. J., March 16 (*Mahy*); Concordville, March 29 (*Styer*).

CARDINAL, *Cardinalis cardinalis cardinalis*. Altoona, seen

from September 30 to June 2 (*McGraw*); nest at Swarthmore, May 4, with eggs (*Palmer*); Lansdowne, April 28, with two eggs (*Carter*); West Philadelphia, May 21, young just left the nest (*Mahy*).

NORTHERN SHRIKE, *Lanius borealis*. Cape May, N. J., November 6 (*Hand*); Atlantic City, N. J., January 17 (*Cromie*); Downstown, N. J., November 21 and 26 (*Fair*); Mt. Holly, N. J., December 23 (*Pumyea*); Fish House, N. J., February 12-16 (*Potter*); Concordville, January 16-20 (*Styer*); Doylestown, December 9 and January 6 (*MacReynolds*); Reading, February 16 and March 24 (*Poole*); Lopez, March 5 (*Behr*).

PURPLE MARTIN, *Progne subis subis*. Vineland, N. J., September 24, 1917 (*Prince*).

WORM-EATING WARBLER, *Helmitheros vermivorus*. Scarlett's Mills, Berks Co., June 9, 1917 (*Poole*).

GOLDEN-WINGED WARBLER, *Vermivora chrysoptera*. Altoona, May 11 (*McGraw*).

NASHVILLE WARBLER, *Vermivora rubricapilla*. Lansdowne, May 11-12 (*Hallett*); Haverford, May 9, three (*Serrill*).

TENNESSEE WARBLER, *Vermivora peregrina*. Audubon, N. J., May 13 (*Tatum*); Moorestown, N. J., May 17 (*Jacob and Linton*); Lansdowne, May 14 and 19 (*Carter*); Haverford, May 10 and 12 (*Serrill*); West Philadelphia, May 11 (*Mahy*); Concordville, May 12 (*Styer*); West Chester, May 14 (*Ehinger*) and May 18 (*Himmelsbach*) and May 9 (*Roberts*); Reading, September 22, 1917 (*Poole*); Lopez, May 19 (*Behr*).

CAPE MAY WARBLER, *Dendroica tigrina*. Moorestown, N. J., May 4 (*Mickle*); Camden, N. J., May 9 (*Potter*); Lansdowne, May 12 (*Hallett*); Vineland, N. J., September 17, 1917, eating grapes (*Prince*); West Chester, May 7 (*Ehinger*); May 15 (*DeHaven*) and May 6 (*Roberts*); Haverford, May 9 (*Scoville*); Reading, September 24, 29, 30 and October 7, 1917, and May 12 and 19 (*Poole*); Altoona, May 5 (*McGraw*); Beverly, N. J., May 12 (*Baird*).

BAY-BREASTED WARBLER, *Dendroica castanea*. Moorestown, N. J., May 11 (*Linton*); Camden, N. J., May 16 (*Potter*); Ad-
dingham, May 15 (*Culver*); Haverford, May 12 (*Serrill*) and 15 (*Scoville*); West Philadelphia, May 14-18 (*Mahy*); German-
town, May 13 (*Barker*); West Chester, May 23 (*Ehinger*) and
May 14 (*Roberts*); Altoona, May 19 (*McGraw*).

MYRTLE WARBLER, *Dendroica coronata*. Lansdowne, last seen November 4, 1917 (*Hallett*); Vineland, N. J., November 1 (*Prince*); Doylestown, January 27, but on only two days in the spring (*MacReynolds*).

PINE WARBLER, *Dendroica vigorsi*. Mays Landing, N. J., April 2 (*Hallett*).

LOUISIANA WATER THRUSH, *Seiurus motacilla*. Haverford, April 20 (*Serrill*); Hay Creek, Berks Co., June 9, 1917, adult feeding nearly full-fledged young (*Poole*).

CONNECTICUT WARBLER, *Oporornis agilis*. Reading, September 22, 1917 (*Poole*).

MOURNING WARBLER, *Oporornis philadelphia*. Altoona, May 26 (*McGraw*); Haverford, May 23 and June 1 (*Scoville*).

WILSON'S WARBLER, *Wilsonia pusilla*. Haverford, May 12 (*Serrill*) and May 15 (*Scoville*); West Philadelphia, May 15 (*Mahy*); Chestnut Hill, May 11 (*Trotter*); Doylestown, May 12, one (*MacReynolds*); Reading, May 11, 14 (two) and 18 (*Poole*).

REDSTART, *Setophaga ruticilla*. Moorestown, N. J., last seen May 31 (*Linton*).

YELLOW-BREASTED CHAT, *Icteria virens virens*. Summer resident at Altoona, a number seen June 2 (*McGraw*).

PIPIT, *Anthus rubescens*. Salem, N. J., April 28, flock of 30 (*Potter*); Lansdowne, October 21, fifteen (*Hallett*); Haverford, October 11, fifteen (*Hallett*), March 23 (*Scoville*) and April 6, small flock (*Serrill*); West Philadelphia, April 12, fifty (*Mahy*); Bridesburg, December 5, 1917, three (*Miller*); Concordville, May 7 (*Styer*); Forest Grove, April 5 (*Bewley*); Sinking Spring near Reading, March 29, flock of 21 (*Poole*). Port Sudian, April 13 (*Rowland*).

MOCKINGBIRD, *Mimus polyglottos polyglottos*. Moorestown, N. J., December 25–April 14 (*Mickle*); Cape May Pt., N. J., August 24, 1917, two adults and a young one (*Potter*), and one all winter (*Hand*), and May 26 (*Baird*); Vineland, N. J., a pair, May 23–June 13 (*Prince*); Lansdowne, one seen November 17, 18 and 23, 1917, and March 30–April 27 (*Carter*); Concordville, January 5–10 and 26–31 (*Styer*); West Grove, September 18, 1917, a young bird; one seen also October 22, 1917 and February 28 (*Roberts*); Princeton, N. J., January 1, 1918 (*Sherrill*); Horsain, April 28 (*G. S. Morris*).

CATBIRD, *Dumetella carolinensis*. Haverford, September 29 (Hallett); Media, December 15-26 (Allen).

CAROLINA WREN, *Thryothorus ludovicianus ludovicianus*. Moorestown, N. J., December 25 and May 12 (Linton); Lansdowne, October 31, 1917, and November 23 (Hallett); Doylestown, one seen on April 7, first time for here (MacReynolds).

WINTER WREN, *Nannus hiemalis hiemalis*. Moorestown, N. J., November 28, 1917 (Mickle); Frankford, first seen October, 2 (Miller); Haverford, October 21-March 23 (Scoville); Reading, October 14-February 24 (Poole); Lopez, April 12 (Behr); Altoona, October 27-April 14 (McGraw).

BROWN CREEPER, *Certhia familiaris americana*. Moorestown, N. J., October 26-April 17 (Mickle); Mt. Holy, N. J., October 7-April 6 (Pumyea); Lansdowne, October 29 (Hallett); West Philadelphia, October 17-April 24, abundant April 19-24 (Mahy); Frankford, first seen October 8 (Miller); West Chester, October 17-April 22 (Roberts); Haverford, October 21-March 24 (Scoville); Doylestown, January 3-March 24 (MacReynolds); Forest Grove, November 3-April 7 (Bewley); Reading, October 13-April 23 (Poole); Altoona, October 27-April 26 (McGraw).

RED-BREASTED NUTHATCH, *Sitta canadensis*. Concordville, January 20 (Styer).

GOLDEN-CROWNED KINGLET, *Regulus satrapa satrapa*. Moorestown, N. J., October 10 (Mickle); Mt. Holly, N. J., October 5 (Pumyea); Lansdowne, October 22-November 6 (Hallett); West Philadelphia, November 4, 1917 (Mahy); Frankford, October 1-December 4 (Miller); Haverford, October 10-January 1 (Scoville); West Chester, October 11-April 23 (Roberts); Doylestown, October 7-December 7 (MacReynolds); Altoona, October 7-March 31 (McGraw).

BLACK-CAPPED CHICKADEE, *Penthestes atricapillus atricapillus*. Ardmore, abundant November, 1918-January, 1919 (Baily); Altoona, October 14, 1917-May 26 (McGraw).

TUFTED TITMOUSE, *Baeolophus bicolor*. Doylestown, seen December 25, 1917, and March 18 (MacReynolds).

ROBIN, *Planesticus migratorius migratorius*. Ridley Park, returned to last year's nest on the porch, and after slight repairs raised a brood in it (Lloyd); Cape May, N. J., October 31-November 7, 1917, a large flight (Hand).