

PROCEEDINGS
OF THE
BIOLOGICAL SOCIETY OF WASHINGTON

BIRDS OF THE WASHINGTON REGION.

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It is probable that the files of the Biological Survey contain a greater amount of data on the movements of birds about Washington than is available for any other section of the country. These records, gleaned from various sources, extend over a period of nearly eighty years, and from the late seventies are nearly continuous. For the past fifteen years, through the efforts of members of the Biological Survey and the local Audubon Society and of other local ornithologists, very full notes have been obtained on the spring migration of birds, but data on the fall migration, especially of many breeding species, are scarce.

In 1861¹ Coues and Prentiss published a list of the birds of the District of Columbia, containing 225 species. With the publication of their revised List in 1883² the number was increased to 248. Dr. Richmond's list of 1902³ records 291 species and subspecies and 1 hybrid. In 1908⁴ under the title "Bird Migration in the District of Columbia," Wells W. Cooke published a summary of the data then available, comprising a table of the dates of migration and lists of permanent residents and casual visitants. Five years later,⁵ under the same title, he published a revised table for the spring migration. In these two lists the number of birds known to have occurred about

¹16th Ann. Rep. Smiths. Inst., 1861 (1862), pp. 299-421.

²Avifauna Columbiana, Bull. 26, U. S. Nat. Mus., 1883, pp. 1-133.

³Birds of Washington and Vicinity, L. W. Maynard; rev. ed., 1902. List by Dr. Richmond, pp. 178-186.

⁴Proc. Biol. Soc. Wash., XXI, 1908, pp. 107-118.

⁵*Ibid.*, XXVI, 1913, pp. 21-26.

Washington was given as 293,¹ of which 2 are hybrids. The present list comprises 299 species and subspecies, besides 2 hybrids and 2 hypothetical forms. Five of the additional forms—Glaucous Gull, Red-legged Black Duck, White-rumped Sandpiper, Black-bellied Plover, and European Starling—have been detected in the vicinity since the publication of Professor Cooke's papers; the others are included on the basis of old records which have recently come to light. It is probable that before long some of the more recently described subspecies known to migrate through the eastern United States will be added to the Washington list. One species, Barrow's Goldeneye, which was included by Professor Cooke as doubtful, is here omitted since reexamination of the specimen has shown it to be the American Goldeneye. One species, the Sooty Shearwater, has been transferred to the hypothetical list because of insufficient data.

The territory covered in the present paper is approximately that within a radius of about twenty miles from the Capitol, including Sandy Spring, Laurel, Camp Meade, Upper Marlboro, and Marshall Hall, Maryland, and Mount Vernon, Fairfax, and Great Falls, Virginia. This is a slight extension of the limits nominally used in previous lists.

In the following table of migration dates, the figures under the heading "No. of dates" indicate the number of dates of arrival or departure used in calculating the succeeding average dates. Since the object of migration averages is to indicate the normal date of arrival or departure, certain exceptionally early or late dates of occurrence have been recorded as "accidental" and not used in figuring the averages. In the case of spring arrival, dates that are late enough unduly to affect the average have been discarded as not representing first arrivals. In the computation of averages, when the result includes a fraction of less than one-half, the next lower whole number has been used; and in the case of a fraction of more than one-half, the next higher whole number has been used.

The species known to occur in this region are classified under four heads: (1) Permanent Residents, those which are found in the region at all times of year; (2) Regular Migrants, migratory

¹This was due to an error in counting. The actual number of names in the 1908 list is 294.

species which occur regularly; (3) Rare, Irregular, or Accidental Visitants, those which are stragglers or occur only in small numbers; (4) Hypothetical Species, those concerning which the data is insufficient to allow their inclusion in any other division. For convenience, the table of migration dates of regular migrants is placed at the end of the present paper.

As far as possible the authorities for all records are given. Several years ago, Dr. Charles W. Richmond kindly loaned to the Biological Survey his manuscript notes on the birds of this vicinity which were then copied for the dates only. As the original notes are not just at present available, in many cases it is impossible to tell which are from his own observations, and which from other sources which he considered authentic. In such instances, the records are quoted as "Richmond MS."

I desire to express here my gratitude to those persons, many of whose names appear as authorities for records, whose reports on the birds about Washington have made my work possible. I am especially indebted to Dr. Harry C. Oberholser and Mr. Francis Harper for much valuable advice and assistance.

PERMANENT RESIDENTS.

Wood Duck	<i>Aix sponsa</i> (rare)
Black-crowned Night Heron	<i>Nycticorax nycticorax naevius</i>
Ruffed Grouse	<i>Bonasa umbellus umbellus</i> (very rare)
Bob-white	<i>Colinus virginianus virginianus</i>
Turkey Vulture	<i>Cathartes aura septentrionalis</i>
¹ Marsh Hawk	<i>Circus cyaneus hudsonius</i>
Sharp-shinned Hawk	<i>Accipiter velox</i>
Cooper's Hawk	<i>Accipiter cooperii</i>
Red-tailed Hawk	<i>Buteo borealis borealis</i>
Red-shouldered Hawk	<i>Buteo lineatus lineatus</i>
Broad-winged Hawk	<i>Buteo platypterus platypterus</i>
Bald Eagle	<i>Haliaeetus leucocephalus leucocephalus</i>
American Sparrow Hawk	<i>Cerchneis sparveria sparveria</i>
American Barn Owl	<i>Tyto alba pratincola</i> (rare)
American Long-eared Owl	<i>Asio otus wilsonianus</i> (rare)
Barred Owl	<i>Strix varia varia</i>
Screech Owl	<i>Otus asio naevius</i>
Great Horned Owl	<i>Bubo virginianus virginianus</i> (rare)
Hairy Woodpecker	<i>Dryobates villosus villosus</i> (rare)
Downy Woodpecker	<i>Dryobates pubescens medianus</i>

¹Rare in summer.

Pileated Woodpecker	<i>Phloeotomus pileatus pileatus</i> (very rare)
¹ Red-headed Woodpecker	<i>Melanerpes erythrocephalus erythrocephalus</i>
Red-bellied Woodpecker	<i>Centurus carolinus</i>
Northern Flicker	<i>Colaptes auratus luteus</i>
Blue Jay	<i>Cyanocitta cristata bromia</i>
Southern Crow	<i>Corvus brachyrhynchos paulus</i>
Fish Crow	<i>Corvus ossifragus</i>
European Starling	<i>Sturnus vulgaris vulgaris</i>
Meadowlark	<i>Sturnella magna magna</i>
American Goldfinch	<i>Astragalinus tristis tristis</i>
English Sparrow	<i>Passer domesticus domesticus</i>
¹ Field Sparrow	<i>Spizella pusilla pusilla</i>
Song Sparrow	<i>Melospiza melodia melodia</i>
Cardinal	<i>Richmondena cardinalis cardinalis</i>
Cedar Waxwing	<i>Bombycilla cedrorum</i>
² Migrant Shrike	<i>Lanius ludovicianus migrans</i>
Mockingbird	<i>Mimus polyglottos polyglottos</i>
Carolina Wren	<i>Thryothorus ludovicianus ludovicianus</i>
White-breasted Nuthatch	<i>Sitta carolinensis cookei</i>
Tufted Titmouse	<i>Baeolophus bicolor</i>
Carolina Chickadee	<i>Penthestes carolinensis carolinensis</i>
³ Southern Robin	<i>Planesticus migratorius achrusterus</i>
Bluebird	<i>Sialia sialis sialis</i>

RARE, IRREGULAR OR ACCIDENTAL VISITANTS.

In the following list are included all the known authentic dates for the species that are but stragglers in the vicinity of Washington, and for a few that occur fairly regularly but only in small numbers.

HOLBOELL'S GREBE (*Colymbus holboellii*).—One, November 4, about 1850 (Spec. U. S. Nat. Mus.); one, about 1859 (Spec. U. S. Nat. Mus.); September 30, 1877 (W. F. Roberts); March 26 and December 2, 1916 (L. D. Miner); one, January 20, 1920 (Spec. U. S. Nat. Mus.).

RED-THROATED LOON (*Gavia stellata*).—One, spring, 1882 (*vide* Smith and Palmer); October 20, 1889 (Richmond MS.); November 15, 1892 (W. Palmer); October 30, 1904 (A. K. Fisher).

BRÜNNICH'S MURRE (*Uria lomvia lomvia*).—Six specimens, December 14, 1896–January 1, 1897 (collections of P. Bartsch and W. Palmer).

GLAUCOUS GULL (*Larus hyperboreus hyperboreus*).—One, April 5–9, 1914 (E. A. Preble); one, February 20, 1920 (F. Harper)—February 21, 1920 (M. J. Pellew.)

¹Rare in winter.

²Rare in summer.

³The Northern Robin (*Planesticus migratorius migratorius*) occurs in migration and may prove to be our wintering bird.

- LAUGHING GULL (*Chroicocephalus atricilla*).—Two, September 24, 1894 (W. Palmer); flock, September 9, 1914 (F. M. Weston, Jr.); several, May 11–12, 1917 (W. Palmer); two, April 27, 1918 (F. Harper); two, October 26, 1919 (F. Harper); four, September 26, 1920 (J. Kittredge, Jr.); other records without dates.
- GULL-BILLED TERN (*Gelochelidon nilotica*).—Occasional in autumn.
- CASPIAN TERN (*Hydroprogne caspia*).—September 29, 1896 (C. W. Richmond); two, October 4, 1896 (Spec. U. S. Nat. Mus.); eight, May 11, 1917 (F. Harper); one, May 5, 1918 (A. Wetmore).
- FORSTER'S TERN (*Sterna forsteri*).—One, August, 1859 (Spec. U. S. Nat. Mus.); one, summer 1875 (*vide* P. L. Jouy).
- COMMON TERN (*Sterna hirundo*).—One about 1860 (C. Drexler); flock of twelve, May 7, 1894 (W. Palmer); several, May 11, 1917 (W. Palmer)—May 26, 1917 (I. N. Gabrielson); ten, April 24 and 27, 1918 (R. W. Moore); two, December 23, 1918 (Preble and Wetmore); two, May 2 and 16, 1920 (J. Kittredge, Jr.); twelve, October 31, 1920 (J. Kittredge, Jr.).
- LEAST TERN (*Sternula antillarum antillarum*).—One about 1858–59 (C. Drexler); one, August 17, 1878 (*vide* C. W. Richmond).
- BLACK SKIMMER (*Rynchops nigra*).—One, September 8, 1858 (Coues and Prentiss).
- LEACH'S PETREL (*Oceanodroma leucorhoa leucorhoa*).—Four, August, 1842 (Spec. U. S. Nat. Mus.); two, about 1859 (Spec. U. S. Nat. Mus.); one, probably this species, January, 1878 (W. Palmer); one, June 7, 1891 (Spec. U. S. Nat. Mus.).
- HAWAIIAN PETREL (*Oceanodroma castro castro*).—August 28–30, 1893 (W. Palmer).
- WILSON'S PETREL (*Oceanites oceanicus*).—One, August, 1842 (Auk, XXXV, 1918, p. 85); one about 1859 (Spec. U. S. Nat. Mus.); one, June 27, 1914 (Spec. U. S. Nat. Mus.).
- DOUBLE-CRESTED CORMORANT (*Phalacrocorax auritus auritus*).—One, 1859 (Spec. U. S. Nat. Mus.); one, July 19, 1884 (W. Palmer); one, November, 1884 (*vide* C. W. Richmond); two, April 19, 1896 (A. K. Fisher); one, October 1, 1896 (C. W. Richmond); several, May 11, 1917 (W. Palmer)—May 20, 1917 (Miner and Moore).
- AMERICAN WHITE PELICAN (*Pelecanus erythrorhynchos*).—One, 1863 (Spec. U. S. Nat. Mus.); one, April, 1864 (Spec. U. S. Nat. Mus.); two, autumn, 1864 (*vide* Smith and Palmer); one, October, 1878 (*vide* Smith and Palmer).
- RED-LEGGED BLACK DUCK (*Anas rubripes rubripes*).—Occurs in migration but is seldom distinguished from the Black Duck (*A. r. tristis*). The only definite dates are: March 25, 1917 (F. Harper); April 21, 1918 (F. Harper).
- GADWALL (*Chaulelasmus streperus*).—February 25, 1860 (Spec. U. S. Nat. Mus.); flock, August 24, 1884 (*vide* C. W. Richmond); two, November 1, 1916 (H. C. Oberholser); one, December 27, 1919 (Preble and Wetmore); three, March 28, 1920 (A. Wetmore).
- EUROPEAN WIDGEON (*Mareca penelope*).—Spring, 1863 (Spec. U. S. Nat. Mus.); October 16, 1892 (Spec. U. S. Nat. Mus.).

- EUROPEAN TEAL (*Nettion crecca*).—One, April, 1885 (Spec. U. S. Nat. Mus.).
- SHOVELER (*Spatula clypeata*).—October 28, 1887 (B. Greenwood); September 21, 1894 (Richmond MS.); October 3, 1901 (B. Greenwood); October 4, 1905 (B. Greenwood); one, September 17, 1911 (W. L. McAtee); one, October 25, 1916 (V. Bailey)—one, October 26, 1916 (F. Harper); three, March 24, 1918 (L. Griscom).
- BUFFLEHEAD (*Charitonetta albeola*).—Winter 1841–42 (Bull. Nat. Inst.); January 29 and April 1 and 10, 1859 (Spec. U. S. Nat. Mus.); April 3, 1876 (W. Palmer); December 2, 1916 (L. D. Miner); December 23, 1916 (J. P. Young); January 20, 1917 (L. D. Miner) and April 15, 1917 (A. Wetmore); December 26, 1917 (Miner and Moore); March 16, 1918 (L. D. Miner); March 21, 1920 (J. Kittredge, Jr.); December 29, 1920 (E. A. Preble); November 8, year unrecorded (Spec. U. S. Nat. Mus.).
- OLD-SQUAW (*Clangula hyemalis*).—November, 1842 (Auk, XXXV, 1918, p. 85); April, 1856 (Spec. U. S. Nat. Mus.); April 15, 1881 (C. W. Richmond); November 20, 1884 (H. W. Henshaw); April 3, 1889 (Richmond MS.); October 20, 1889 (W. Palmer); April 20, 1896 (Richmond MS.); November 6, 1915 (F. M. Weston, Jr.); April 21, 1917 (F. Harper).
- AMERICAN EIDER (*Somateria mollissima dresseri*).—One specimen in the collection of the Maryland Academy of Sciences (Kirkwood, Birds of Maryland).
- AMERICAN SCOTER (*Oidemia americana*).—December, 1842 (S. F. Baird).
- WHITE-WINGED SCOTER (*Melanitta deglandi deglandi*).—December, 1842 (Spec. U. S. Nat. Mus.); November, 1880 (Spec. U. S. Nat. Mus.); October 14, 1882 (*vide* Coues and Prentiss); April 18, 1892 (Spec. U. S. Nat. Mus.); October 28, 1894 (Richmond MS.); one, November 8, 1920 (L. Griscom).
- SURF SCOTER (*Melanitta perspicillata*).—February, 1842 (Auk, XXXV, 1918, p. 85); December 11, 1858 (Spec. U. S. Nat. Mus.); February 19 and April 10, 1859 (Spec. U. S. Nat. Mus.); one, 1868 (Richmond MS.).
- WHITE-FRONTED GOOSE (*Anser albifrons albifrons*).—March, 1856 (Spec. U. S. Nat. Mus.).
- BRANT (*Branta bernicla*).—January, 1844 (Spec. U. S. Nat. Mus.); December 16, 1858 (Spec. U. S. Nat. Mus.).
- WHISTLING SWAN (*Olor columbianus*).—Earliest date of fall arrival, 16 years' record, October 15, 1901 (B. Greenwood); average, November 6; rare in spring; January 14 and March 25, 1881 (Richmond MS.); March 22, 1907 (W. W. Cooke) and April 5, 1907 (J. H. Riley); March 18, 1916 (L. D. Miner)—March 20, 1916 (W. W. Cooke).
- GLOSSY IBIS (*Plegadis autumnalis*).—Two about 1817 (*vide* Audubon); one, September, 1900 (J. W. Daniel, Jr.).
- WOOD IBIS (*Mycteria americana*).—Two, July 2, 1892 (E. M. Hasbrouck); two, July 20, one, July 27, 1896 (W. Palmer).
- AMERICAN EGRET (*Casmerodius albus egretta*).—A wanderer from the south occurring nearly every year from July to September. Earliest date of arrival, 9 years' record, July 8, 1894 (W. Palmer); average, July 30;

average date of departure, 3 years' record, September 13; latest, September 22, 1914 (W. D. Appel). Once recorded in spring, May 30, 1891 (C. W. Richmond).

SNOWY HERON (*Egretta thula thula*).—One about 1841 (Spec. Mus. Oberlin College).

LITTLE BLUE HERON (*Florida caerulea caerulea*).—Occurs nearly every year in late summer. Earliest date of arrival, 13 years' record, July 7, 1894 (Spec. U. S. Nat. Mus.); average, July 30; average date of departure, 6 years' record, September 11; latest, September 24, 1911 (E. A. Preble). Once recorded in spring May 12, 1917 (W. Palmer).

YELLOW-CROWNED NIGHT HERON (*Nyctanassa violacea*).—One, August, 1901 (W. Palmer).

SANDHILL CRANE (*Megalornis canadensis mexicana*).—One specimen, previous to 1861 (*vide* Coues and Prentiss).

KING RAIL (*Rallus elegans*).—July 7, 1843; eggs and female June 18, 1887 (H. W. Henshaw); December 16, 1889 (W. Palmer); November 7, 1891 (Spec. U. S. Nat. Mus.); December 21, 1892 (W. Palmer); young, June 26, 1893 (W. Palmer); eggs, May 30, 1910 (S. S. Dickey); May 12, 1913 (W. Palmer); August 30, 1913 (W. D. Appel); August 31, 1913 (G. E. Barnes); August 7, 1914 (W. W. Cooke); December 2, 1914 (Spec. U. S. Nat. Mus.); May 11, 1917 (W. Palmer); August 20, 1917 (R. W. Moore); December 4, 1919 (E. A. Preble).

CLAPPER RAIL (*Rallus crepitans crepitans*).—September 8, 1882 (*vide* Coues and Prentiss).

YELLOW RAIL (*Coturnicops noveboracensis*).—Autumn, 1843 (Auk, XXXV, 1918, p. 85); October 4, 1879 (Spec. U. S. Nat. Mus.); March 28, 1884 (Spec. U. S. Nat. Mus.); April 14, 1893 (Spec. U. S. Nat. Mus.); November 17, 1893 (W. Palmer); May 20, 1917 (N. Hollister).

BLACK RAIL (*Creciscus jamaicensis jamaicensis*).—September, 1861 (Coues and Prentiss); September 25, 1877 (Spec. U. S. Nat. Mus.); June 6, 1879 (Spec. U. S. Nat. Mus.); May 29, 1891 (E. J. Brown); September 1, 1908 (Spec. U. S. Nat. Mus.); September 15, 1918 (R. W. Moore).

FLORIDA GALLINULE (*Gallinula chloropus cachinnans*).—One, 1863 (Spec. U. S. Nat. Mus.); October 26, 1876 (Spec. U. S. Nat. Mus.); October 15, 1880 (Spec. U. S. Nat. Mus.); spring, 1882 (*vide* Coues and Prentiss); April 19, 1892 (E. M. Hasbrouck); August 12, 1892 (E. M. Hasbrouck); September 7, 1892 (W. Palmer); September 1, 1893 (W. Palmer); September 30, 1902 (Spec. U. S. Nat. Mus.); September, 1917 (A. Wetmore); eggs, June 3, 1918 and May 30, 1919 (E. J. Court).

RED PHALAROPE (*Phalaropus fulicarius*).—October 17, 1885 (Spec. U. S. Nat. Mus.).

NORTHERN PHALAROPE (*Lobipes lobatus*).—August 31, 1891 (Spec. U. S. Nat. Mus.); one, August 29, 1916 (Moore and Shoemaker).

DOWITCHER (*Limnodromus griseus griseus*).—September 2, 1878 (W. F. Roberts).

LONG-BILLED DOWITCHER (*Limnodromus griseus scolopaceus*).—Seven, April, 1884 (*vide* Smith and Palmer).

- STILT SANDPIPER (*Micropalama himantopus*).—September 8, 1885 (H. W. Henshaw); one, October 26, 1916 (F. Harper); one, September 6, 1918 (A. H. Hardisty).
- WHITE-RUMPED SANDPIPER (*Pisobia fuscicollis*).—One, October 8 and 24, 1916 (F. Harper); four, May 11, 1917 (W. Palmer); one, September 20, 1918 (A. H. Hardisty).
- BAIRD'S SANDPIPER (*Pisobia bairdii*).—September 3, 1894 (Spec. U. S. Nat. Mus.); September 25, 1894 (W. Palmer).
- RED-BACKED SANDPIPER (*Pelidna alpina sakhalina*).—October 22, 1842 (Spec. U. S. Nat. Mus.); April 22, 1887 (W. Palmer); September 25, 1894 (E. M. Hasbrouck); flock, October 15, 1916 (F. Harper)—November 1, 1916 (H. C. Oberholser); May 11–12, 1917 (H. C. Oberholser); October 17, 1918 (A. H. Hardisty); April 24 (Richmond MS.), year not recorded.
- WESTERN SANDPIPER (*Ereunetes mauri*).—September 8, 1894 (W. Palmer); September 11, 14 and 22, 1894 (Spec. U. S. Nat. Mus.); August 21 and September 3, 1897 (W. Palmer); September 25, 1919 (Spec. U. S. Nat. Mus.).
- SANDERLING (*Crocethia alba*).—September, 1874 (Richmond MS.); one, October 24, 1885 (Richmond MS.); three, September 22, 1894 (W. Palmer); two, September 26–30, 1898 (Richmond MS.); September 27, 1898 (E. A. Preble).
- WILLET (*Catoptrophorus semipalmatus semipalmatus*).—A flock, August 10–11, 1893 (W. Palmer); one, May 16, 1917 (F. M. Bailey); other records without dates.
- RUFF (*Philomachus pugnax*).—September 3, 1894 (W. Palmer).
- LONG-BILLED CURLEW (*Numenius americanus americanus*).—One, April 11, 1842 (Spec. U. S. Nat. Mus.).
- BLACK-BELLIED PLOVER (*Squatarola squatarola cynosurae*).—Three, September 26, 1914 (Spec. U. S. Nat. Mus.); one, October 24, 1916 (H. C. Oberholser); one, October 26, 1919 (A. Wetmore).
- GOLDEN PLOVER (*Pluvialis dominica dominica*).—Once taken (D. W. Prentiss).
- SEMI-PALMATED PLOVER (*Charadrius semipalmatus*).—August 26, 1877 (W. Palmer); May 9, 1879 (Richmond MS.); May 3, 1884 (Richmond MS.); August 22, 1892 (E. M. Hasbrouck); August 30 to September 22, 1894 (Richmond MS.); August 21, 1897 (Richmond MS.); May 16–25, 1906 (D. E. Lantz); May 10, 1907 (D. E. Lantz); May 10, 1909 (E. A. Preble); June, year not recorded (Spec. Brit. Mus.).
- PIPING PLOVER (*Charadrius melodus*).—March 25, 1881 (Richmond MS.); May 3, 1884 (Spec. U. S. Nat. Mus.).
- RUDDY TURNSTONE (*Arenaria interpres morinella*).—Three, about 1860 (Spec. U. S. Nat. Mus.); two, May, 1881 (*vide* Smith and Palmer); June, 1882 (*vide* Smith and Palmer); one, September 2, 1912 (E. R. Adams); other records without dates.
- HEATH HEN (*Tympanuchus cupido*).—One, April 10, 1859 (Proc. Biol. Soc. Wash., XXXII, 1919, p. 198).

- WILD TURKEY (*Meleagris gallopavo silvestris*).—Formerly resident, now probably exterminated in the vicinity of Washington, though it still occurs near Occoquan, Va., a little beyond our limits. The latest record is of eggs found near Falls Church, Va., in May, 1903 (J. H. Riley).
- PASSENGER PIGEON (*Ectopistes canadensis*).—Formerly abundant, now extinct; the last large flock was previous to 1860. Records since then are: September 18, 1877; April 3, 1887 (H. W. Henshaw); April 4, 1887 (A. K. Fisher); September 11, 1889 (W. Palmer); October 19, 1889 (Richmond MS.); May 2, 1891 (R. W. Shufeldt).
- GROUND DOVE (*Chaemepelia passerina passerina*).—September 1, 1844; February, 1861; 1865; January 29, February 2, and December 4, 1867 (all specimens U.S. Nat. Mus.); October 14, 1888 (C. W. Richmond).
- BLACK VULTURE (*Coragyps urubu urubu*).—Four, March 30, 1895 (Richmond MS.); one, July, 1896 (Richmond MS.); one, December 17, 1899 (P. Bartsch); one, February 21—March 10, 1917 (N. Hollister); two, August 5, 1918 (W. Palmer); five, January 2, 1920 (H. S. Barber).
- SWALLOW-TAILED KITE (*Elanoides forficatus forficatus*).—August 3, 1895 (Richmond MS.); April 11, 1897 (P. Bartsch).
- AMERICAN GOSHAWK (*Astur gentilis atricapillus*).—Previous to 1883 (*vide* Coues and Prentiss); December 27, 1887 (A. K. Fisher); January 1, 1896 (Richmond MS.); September 1 and 2, 1916 (T. A. Davis); December 20, 1917 (T. A. Davis).
- AMERICAN ROUGH-LEGGED HAWK (*Buteo lagopus sancti-johannis*).—One about 1859 (Richmond MS.); December 29, 1879 (H. W. Henshaw); December 23, 1882 (Spec. U.S. Nat. Mus.); March 17, 1888 (A. K. Fisher); March 30, 1888 (C. W. Richmond); January 1, 1895 (E. A. Preble); December 23 and 31 1916 (Gabrielson and Kalmbach); January 1, 1918 (A. H. Howell).
- GOLDEN EAGLE (*Aquila chrysaetos*).—December 26, 1857 (Spec. U. S. Nat. Mus.); March 7, 1859 (Spec. U. S. Nat. Mus.); December 8, 1887; November 24, 1890 (Richmond MS.).
- DUCK HAWK (*Rhynchodon peregrinus anatum*).—December, 1878 (*vide* Coues and Prentiss); October 23, 1900 (Richmond MS.); March 1, 1910 (N. Hollister); May 22, 1918 (L. Griscom); December 23, 1918 (H. H. Sheldon); April 30, 1919 (H. H. Sheldon); has been seen several times in winter about the Post Office Department building.
- SHORT-EARED OWL (*Asio flammeus flammeus*).—One, autumn, 1842 (Bull. Nat. Insti.); one, April 12, 1859 (Spec. U. S. Nat. Mus.); one, April 20, 1861 (Richmond MS.); one, March, 1862 (Richmond MS.); one, November 22, 1886 (A. K. Fisher); one, January 28, four, March 5, one, March 28, 1887 (A. K. Fisher); two, November 13, 1887 (H. W. Henshaw); one, January 7 and 23, one, February 13, one, December 10, 1888 (A. K. Fisher); one, March 13, and one, November 29, 1889 (A. K. Fisher); one, December 13 and two, December 20, 1890 (A. K. Fisher); one, November 20, 1891 (A. K. Fisher); March 2, 1913 (A. Wetmore).

- SAW-WHET OWL (*Cryptoglaux acadica acadica*).—February 12, 1859 (Spec. U. S. Nat. Mus.); November 11, 1878 (Spec. U. S. Nat. Mus.); December, 1880; October 3, 1886 (F. S. Webster); March 12, 1889 (C. W. Richmond); November 1, 1889 (A. K. Fisher); December 31, 1889 (W. A. Merritt); one, December 12, 1890 (W. B. Barrows); three, January 4, one, February 4–5, 1891 (E. M. Hasbrouck); February 19, 1893 (C. W. Richmond); two, 1905 (T. Roosevelt); one, February 6, 1916 (I. N. Gabrielson); one, November 30, 1916 (A. K. Fisher); January, 1914 (R. W. Shufeldt); December 1, 1917 (E. A. Sikken).
- SNOWY OWL (*Nyctea nyctea*).—December 4, 1858 (Spec. U. S. Nat. Mus.); November 1 and 11, 1885 (Spec. U. S. Nat. Mus.); December 30, 1890 (C. W. Richmond); about 15 taken the winter of 1876–77 (Richmond MS.).
- CAROLINA PAROQUET (*Conuropsis carolinensis carolinensis*).—A flock, September, 1865 (*vide* Smith and Palmer).
- CHUCK-WILL'S-WIDOW (*Antrostomus carolinensis*).—One, July 22, 1895 (R. Ridgway); one, summer, 1896 (C. W. Richmond).
- SCISSOR-TAILED FLYCATCHER (*Muscivora forficata*).—One, about 1865 (Richmond MS.); one, April, 1881 (Richmond MS.).
- ARKANSAS KINGBIRD (*Tyrannus verticalis*).—September 30, 1874 (Spec. U. S. Nat. Mus.).
- OLIVE-SIDED FLYCATCHER (*Nuttallornis borealis*).—Several, September, 1881 (R. Ridgway); May 5, 1912 (A. K. Fisher); one, May 22, 1915 (W. W. Cooke); two, August 13, 1917 (R. W. Moore); one, September 9 and 14, 1918 (R. W. Moore); one, May 10, 1919 (Miner and Moore); one, May 16, 1920 (E. A. Preble); one, May 22, 1920 (M. T. Cooke).
- HORNED LARK (*Otocoris alpestris alpestris*).—March 3, 1885 (H. W. Henshaw); December 10–11, 1886 (H. W. Henshaw); January 8, 1887 (H. W. Henshaw); April 2, 1887 (Richmond MS.); November 25, 1888 (Richmond MS.); October 29, 1889 (C. W. Richmond); March 29, 1891 (Spec. U. S. Nat. Mus.); February 2, 1895 (A. K. Fisher); November 25, 1903 (A. K. Fisher); February 13, 1910 (H. W. Henshaw); December 15, 1917–March 1, 1918 (F. Harper).
- PRAIRIE HORNED LARK (*Otocoris alpestris praticola*).—February 8, 1881 (W. Palmer); January 23–February 16, 1888 (W. Palmer); August 11, 1889 (C. W. Richmond); February 10–24, 1918 (F. Harper).
- Horned Larks occur in the vicinity of Washington nearly every winter, but in most instances the race is not determinable.
- YELLOW-HEADED BLACKBIRD (*Xanthocephalus xanthocephalus*).—One, August 29, 1892 (E. M. Hasbrouck).
- BRONZED GRACKLE (*Quiscalus quiscula aeneus*).—Probably occurs nearly every year in migration, definite dates are: April 17, 1886 (Spec. U. S. Nat. Mus.); April 6, 1887 (Spec. U. S. Nat. Mus.); February 22, 1888 (Spec. U. S. Nat. Mus.); March 8, 1895 (C. W. Richmond); March 28, 1896 (C. W. Richmond); March 4, 1897 (C. W. Richmond); February 22, 1898 (C. W. Richmond); February 14 and 15, 1906 (R. W. Williams); January 21, 1916 (F. M. Bailey); March 18 to April 4, 1918 (H. C. Oberholser).

- PINE GROSBK (*Pinicola enucleator leucura*).—Several, January 23, 1888 (H. W. Henshaw); three, November 26, 1903 (T. H. Levering).
- AMERICAN CROSSBILL (*Loxia curvirostra minor*).—Irregular winter visitant, sometimes abundant. Has been noted from October 10 (1886, H. W. Henshaw) to June 2 (1902, C. W. Richmond). A female taken May 23, 1884 (R. Ridgway) showed unmistakable evidence of having recently incubated. A young bird barely able to fly was taken with an adult, May 17, 1885 (H. M. Smith). These seem to be the only evidences of the breeding of this species in the vicinity.
- WHITE-WINGED CROSSBILL (*Loxia leucoptera*).—One, about 1864 (C. Drexler); one, about 1874 (*vide* Coues and Prentiss); one, November, 1906 (C. W. Richmond); one, August 11, 1907 (spec. brought to Biol. Surv.); flock, October 23, 1913 (R. W. Williams); many, December 10, 1916 (W. L. McAtee)—January 16, 1917 (D. C. Mabbott).
- REDPOLL (*Acanthis linaria linaria*).—One, February 19, 1875 (Richmond MS.); seven, February 12, 1899 (Richmond MS.); small flock, March 9, 1914 (R. W. Moore)—March 12, 1914 (M. T. Cooke).
- SNOW BUNTING (*Plectrophenax nivalis nivalis*).—February or March, 1842 (Auk, XXXV, 1918, p. 85); one, November, 1886 (W. Palmer); large flock, February 18–22, 1905 (Piper and Cary); one, December 19, 1917 (C. H. M. Barrett).
- LAPLAND LONGSPUR (*Calcarius lapponicus lapponicus*).—Several, December 11, 1886 (H. W. Henshaw).
- NELSON'S SPARROW (*Ammospiza caudacuta nelsoni*).—One, September, 1862 (Spec. U. S. Nat. Mus.); one, September 18, 1893 (W. Palmer); September 26, 1898 (Richmond MS.); two, May, 1906 (Richmond MS.).
- LARK SPARROW (*Chondestes grammacus grammacus*).—One, August 25, 1877 (W. F. Roberts); two, August 27, 1877 (R. Ridgway); August 8, 1886 (H. W. Henshaw).
- MONTANA JUNCO (*Junco oreganus montanus*).—April 28, 1890 (R. Ridgway).
- BACHMAN'S SPARROW (*Peucaea aestivalis bachmani*).—April 29, 1896 (J. D. Figgins); one all summer, 1912, near Lanham, Md. (W. R. Maxon); May 12, 1913 (Maxon and Kearney); June 1, 1913 (A. Wetmore); April 26, 1914 (A. Wetmore); May 9, 1915 (A. Wetmore); May 2, 1918 (R. W. Moore); one, May 22, 1920 (L. D. Miner); regular visitor for many years to a field near Congress Heights (P. Bartsch).
- DICKISSEL (*Spiza americana*).—Formerly a common breeder, but disappeared about 1875, and is now only an accidental visitor. One, May 31, 1887 (H. W. Henshaw); one, summer, 1894 (C. W. Richmond).
- NORTHERN SHRIKE (*Lanius borealis borealis*).—February 10, 1846 (Spec. U. S. Nat. Mus.); one, winter 1859–60 (Richmond MS.); one, early 1865 (Richmond MS.); November 7, 1884 (Richmond MS.); November 6 and 13, 1887 (H. W. Henshaw); December 26, 1887 (Spec. U. S. Nat. Mus.); November 17, 1888 (Spec. U. S. Nat. Mus.); January 10, 1891 (Richmond MS.); February 10, 1896 (Richmond MS.); December 28, 1917 (Oberholser and Swales); January 26, 1920 (G. W. Field); other specimens without dates.

- PROTHONOTARY WARBLER (*Protonotaria citrea*).—One or two noted in twelve different years, the earliest date of arrival being April 26, 1916 (R. W. Moore); the average of 9 years' records, May 4. Twice noted in June, possibly breeding.
- BREWSTER'S WARBLER (*Vermivora leucobronchialis*) (hybrid).—May 8, 1885 (W. Palmer); May 1, 1895 (Spec. U. S. Nat. Mus.).
- LAWRENCE'S WARBLER (*Vermivora lawrencei*) (hybrid).—May 12, 1907 (W. H. Osgood).
- ORANGE-CROWNED WARBLER (*Vermivora celata celata*).—October 13, 1889 (H. W. Henshaw); October 14, 1894 (W. Palmer).
- NORTHERN PARULA WARBLER (*Compsothlypis americana pusilla*).—A common migrant, but the records are in most cases not separable from those of the Parula Warbler. May 26 and 30, 1905 (H. C. Oberholser); May 9, 1912 (W. L. McAtee); May 12, 1913 (H. C. Oberholser); October 5, 1917 (M. T. Cooke).
- CERULEAN WARBLER (*Dendroica cerulea*).—October, 1859 (Spec. U. S. Nat. Mus.); May, 1861 (Spec. U. S. Nat. Mus.); May 5, 1888 (E. M. Hasbrouck); May 11, 1890 (E. M. Hasbrouck); May 12, 1899 (Richmond MS.); May 29, 1902 (Richmond MS.); May 9, 1904 (W. W. Cooke); May 15, 1904 (A. K. Fisher); May 3 and 11, 1907 (W. W. Cooke); May 13, 1909 (R. W. Shufeldt).
- KIRTLAND'S WARBLER (*Dendroica kirtlandii*).—September 25, 1887 (W. Palmer).
- PALM WARBLER (*Dendroica palmarum palmarum*).—Probably occurs every year in migration, but is not distinguished from the Yellow Palm Warbler. Has been noted in spring from April 22, 1885 (Richmond MS.) to May 20, 1917 (McAtee and Holt); and in autumn, from September 18, 1887 (Richmond MS.) to October 11, 1861 (R. Ridgway).
- GRINNELL'S WATER-THRUSH (*Seiurus noveboracensis notabilis*).—May 11, 1879 (W. Palmer); May 5, 1885 (W. Palmer); August 5, 1886 (Richmond MS.).
- NORTHERN YELLOWTHROAT (*Geothlypis trichas brachidactyla*).—Abundant in migration but is not distinguished from the Maryland Yellowthroat; September 23, 1902 (C. W. Richmond); May 11, 1917 (M. T. Cooke).
- BEWICK'S WREN (*Thryomanes bewickii bewickii*).—Has been noted in spring in fourteen different years, the earliest date of arrival being March 26, 1897 (Richmond MS.), and the average, April 8; accidental, February 8, 1918 (J. H. Riley); twice noted in autumn, November 11, 1889 (Richmond MS.); December 22, 1890 (C. W. Richmond); although it has been noted in summer, it has never been known to nest.
- SHORT-BILLED MARSH WREN (*Cistothorus stellaris*).—May 9, 1890 (E. M. Hasbrouck); May 3, 1893 (W. Palmer).
- BLACK-CAPPED SPICKADEE (*Penthestes atricapillus atricapillus*).—January 1, 1859 (Spec. U. S. Nat. Mus.); December 10, 1859 (Spec. U. S. Nat. Mus.); December 24, 1876 (W. Palmer); December 25, 1878 (W. Palmer); January 2, 1879 (W. Palmer); February 2, 1879 (Richmond MS.); common, February 21, 1885 (H. W. Henshaw)—April 19, 1885 (W. Palmer); April 19, 1896 (H. W. Henshaw); October 19, 1896 (Richmond MS.).

BICKNELL'S THRUSH (*Hylocichla minima minima*).—October 3, 1885 (Richmond MS.); May 14 and 18, 1888 (Spec. U. S. Nat. Mus.); May 17, 1892 (E. A. Preble); May 24, 1893 (E. A. Preble).

HYPOTHETICAL SPECIES.

SOOTY SHEARWATER (*Puffinus griseus stricklandi*).—"Puffinus cinereus from Potomac River," a specimen presented to the National Institute for the Promotion of Science at the meeting, September 12, 1842,¹ is probably referable to this species. This record is very likely the basis for the inclusion of the Audubon Shearwater in previous Washington lists.

PRAIRIE CHICKEN (*Tympanuchus americanus americanus*).—A specimen taken March 17, 1885, was undoubtedly an introduced bird, as about that time birds taken in the west were liberated in Kent County, Maryland.

¹Proc. Nat. Inst. Prom. Sci., Bull. III, 1842-45, p. 251.

REGULAR MIGRANTS.

SPECIES.	No. of dates.	Earliest date of Spring arrival.	REGULAR MIGRANTS.			Earliest date of fall arrival.	Average date of fall arrival.	No. of dates.	Average date of fall departure.	Latest date of fall departure.
			Average date of Spring arrival.	No. of dates.	Average date of Spring departure.					
Horned Grebe	Winters	.....	.....	.....	.....	.....	.....	.....
<i>Columbus auritus</i>	
Pied-billed Grebe	8	Mar. 9, 1918 (<i>Minor & Moore</i>)	April 1	8	April 26 (<i>F. M. Bailey</i>)	May 15, 1920 (<i>J. S. Aspinwall</i>)	5	Aug. 30	Nov. 2 (<i>L. Griscom</i>)	
<i>Podilymbus podiceps podiceps</i>	Rare, winter	.....	.....	.....	.....	.....	.....	.....
Common Loon	Winters	.....	.....	.....	.....	.....	.....	.....
<i>Gavia immer</i>	
Herring Gull	Winters	.....	.....	.....	.....	.....	.....	.....
<i>Larus argentatus argentatus</i>	
Ring-billed Gull	7	Rare, winter	Feb. 9	8	April 21 (<i>A. Wetmore</i>)	May 20, 1917 (<i>A. Wetmore</i>)	3	Oct. 16	Dec. 22	
<i>Larus delawarensis</i>	
Bonaparte's Gull	13	Mar. 25, 1861 ³ (<i>Richmond M.S.</i>)	April 11	12	May 9 (<i>H. W. Henshaw</i>)	May 30, 1884 (<i>H. W. Henshaw</i>)	4	Oct. 27	Dec. 14 (<i>W. Palmer</i>)	
<i>Chroicocephalus philadelphia</i>	
Black Tern	May 3, 1917 ⁴ (<i>M. T. Cooke</i>)	.....	.....	.....	.....	.....	.....	.....
<i>Chlidonias nigr sarrnamentae</i>	Winters	.....	.....	.....	.....	.....	.....	.....
American Merganser	
<i>Mergus americanus</i>	
Red-breasted Merganser	Winters	.....	.....	.....	.....	.....	.....	.....
<i>Mergus serrator</i>	
Hooded Merganser	Winters	.....	.....	.....	.....	.....	.....	.....
<i>Lophodytes cucullatus</i>	
Mallard	Winters	.....	.....	.....	.....	.....	.....	.....
<i>Anas platyrhynchos</i>	
Black Duck	Winters	.....	.....	.....	.....	.....	.....	.....
<i>Anas rubripes tristis</i>	
American Widgeon	Winters	.....	.....	.....	.....	.....	.....	.....
<i>Mareca americana</i>	
Green-winged Teal	Winters	.....	.....	.....	.....	.....	.....	.....
<i>Nelion carolinense</i>	
Blue-winged Teal	Winters	.....	.....	.....	.....	.....	.....	.....
<i>Querquedula discors</i>	

¹Accidental, June 10, 1919 (*R. W. Moore*).²Accidental, July 19, 1865 (*Richmond M.S.*).³One record in January.⁴Recorded only once in spring.

SPECIES.	No. of dates.	Earliest date of spring arrival.	Average date of spring arrival.	No. of dates.	Average date of spring departure.	Latest date of spring departure.	No. of dates.	Earliest date of fall arrival.	Average date of fall arrival.	No. of dates.	Average date of fall departure.	Latest date of fall departure.
Greater Yellowlegs.....	5	April 8, 1917 (A. Wetmore)	April 22	5	May 13	May 20, 1917 (Miner & Moore)	2	July 24, 1890 (C. W. Richmond)	July 29	3	Oct. 17	Nov. 2, 1919 (J. Kittredge, Jr.)
<i>Totanus melanoleucus</i>	5	April 12, 18781 (H. W. Henshaw)	April 23	8	May 12	May 17, 1917 (A. Wetmore)	5	Aug. 21, 1894 (Richmond M.S.)	Aug. 27	3	Oct. 19	Nov. 1, 1916 (H. C. Oberholser)
Lesser Yellowlegs.....	23	Mar. 30, 1883 (H. W. Henshaw)	April 29	20	May 17	May 21, 1906 (W. W. Cooke)	6	July 15, 1899 (E. A. Preble)	Aug. 2	6	Oct. 2	Oct. 28, 1916 (L. D. Miner)
<i>Totanus flavipes</i>	5	Mar. 21, 1896 (E. W. Shoafelt)	April 5	4	April 27	May 11, 1917 (L. D. Miner)	7	July 20, 1902 (W. W. Cooke)	July 14	6	Aug. 28	Sept. 26, 1919 (A. Wetmore)
Solitary Sandpiper.....	31	April 2, 1905 (W. L. McAtee)	April 18			Breeds				4	Oct. 4	Oct. 28, 1906 (A. K. Fisher)
Bartramian Sandpiper.....	19	Rare, winter	Mar. 7			Breeds				6	Nov. 8	
Spotted Sandpiper.....	24	Rare, winter	Mar. 16			Breeds				6	Nov. 12	
<i>Actitis macularia</i>	4	Mar. 21, 1920 (J. Kittredge, Jr.)	April 11	3	April 30	May 11, 1917 (H. C. Oberholser)	3	Sept. 4, 1890 (Richmond M.S.)	Sept. 12	5	Oct. 23	Nov. 11, 18912 (W. Falmer)
Killdeer.....	25	Mar. 19, 1905 (C. R. Ellis)	April 11			Breeds				6	Oct. 23	Nov. 30, 1907 (A. K. Fisher)
<i>Oryzopsis vociferus vociferus</i>	13	May 3, 1907 (W. W. Cooke)	May 6			Breeds				12	Oct. 6	Oct. 13, 1889 (A. K. Fisher)
<i>Zenaidura macroura carolinensis</i>	19	May 2, 1908 (C. R. Shoemaker)	May 7			Breeds				8	Sept. 27	Oct. 8, 1916 (E. A. Preble)
<i>Coccyzus erythrophthalmus</i>	17	Rare, winter	Mar. 23			Breeds				4	Nov. 24	
Belted Kingfisher.....		Winters		26	April 23	May 17, 1917 (A. Wetmore)	25	Sept. 10, 1905 (W. W. Cooke)	Oct. 3			
<i>Streptoperyx alcyon alcyon</i>	34	April 1, 1913 (E. J. Brown)	April 18			Breeds				10	Sept. 22	Oct. 13, 1880 (H. W. Henshaw)
Yellow-bellied Sapsucker.....	24	April 18, 1919 (H. H. T. Jackson)	May 3	6	May 25	Rare, summer	10		Aug. 15	13	Sept. 27	Oct. 11, 1914 (E. A. Preble)
<i>Sphyrapicus varius varius</i>												
Wing-poorwill.....												
<i>Setocheilus vociferus vociferus</i>												
Nighthawk.....												
<i>Chordeiles minor minor</i>												

1 Accidental, March 12, 1906 (W. W. Cooke). 2 Accidental, Dec. 23, 1918 (H. H. Sheldon).

Chimney Swift.....	34	April 5, 1914 (M. W. Curry)	April 16	Breeds				16	Oct. 10	Oct. 25, 1906 (W. W. Cooke)	
<i>Chaetura pelagica</i>	28	April 16, 1912 (W. R. Mazon)	May 2	Breeds				15	Sept. 20	Oct. 20, 1913 (A. K. Fisher)	
Ruby-throated Hummingbird.....	38	April 18, 1914 (E. R. Kalmbach)	April 27	Breeds				12	Sept. 1	Sept. 23, 1905 (F. E. L. Bead)	
Kingbird.....	37	April 19, 1914 (W. W. Cooke)	April 28	Breeds				14	Sept. 11	Sept. 29, 1907 (R. W. Williams)	
Crested Flycatcher.....	41	Jan. 10, 1909 (F. H. Kearney)	Mar. 11	Breeds				16	Oct. 28	Dec. 31, 1883 (H. W. Henshaw)	
<i>Mniotilta cinerea</i>	36	April 29, 1914 (W. W. Cooke)	May 5	Breeds				23	Sept. 20	Oct. 12, 1906 (A. K. Fisher)	
Wood Pewee.....	20	May 9, 1902 (A. K. Fisher)	May 14	June 1, 1917 (F. Harper)			8	July 28, 1859 (Spec. U. S. N. M.)	Sept. 18	Oct. 6, 1881 (Richmond M. S.)	
Yellow-bellied Flycatcher.....	33	April 29, 1845 (Spec. U. S. N. M.)	May 6	Breeds				11	Sept. 9	Sept. 15, 1912 (W. W. Cooke)	
<i>Empidonax flaviventris</i>	16	May 8, 1906 (H. C. Oberholser)	May 13	June 1, 1917 (F. Harper)			3	Aug. 16, 1886 (A. K. Fisher)	Sept. 14	Sept. 17, 1890 (C. W. Richmond)	
Acedian Flycatcher.....	29	April 20, 1881 (W. Palmer)	May 2	May 27, 1917 (A. Wetmore)			5	Aug. 13, 1887 (A. K. Fisher)	Sept. 13	Oct. 1, 1916 (D. C. Mabbott)	
Alder Flycatcher.....	27	April 26, 1896 (H. Oldys)	May 2	June 6, 1909 (H. W. Henshaw)			20	July 23, 1904 (S. D. Judd)	Oct. 6	Nov. 14, 1885 (A. K. Fisher)	
Least Flycatcher.....	17	Rare, winter	Mar. 19	Breeds					7	Nov. 5	
<i>Empidonax minimus</i>	21	Rare, winter	Mar. 1	Breeds					4	Nov. 20	
Bobolink.....	33	April 25, 1908 (A. H. Howell)	May 3	Breeds					5	Aug. 27	Sept. 14, 1919 (F. Harper)
Cowbird.....	35	April 24, 1912 (H. H. T. Jackson)	May 2	Breeds					6	Aug. 26	Sept. 14, 1919 (F. Harper)
Red-winged Blackbird.....	28	Rare, winter	Feb. 23	May 11, 1917 (E. G. Holt)			13	Sept. 16, 1885 (H. W. Henshaw)	Oct. 21		
<i>Molothrus ater</i>		Winters		Breeds					5	Nov. 17	
<i>Agelaius phoeniceus predatorialis</i>		Winters	26	May 29, 1860 (Spec. U. S. N. M.)			13	Aug. 31, 1919 (J. Kittredge, Jr.)	Oct. 2		
Orchard Oriole.....		Winters	8	May 19, 1888 (W. Palmer)			6	Oct. 15, 1916 (F. Harper)	Oct. 22		
<i>Icterus spurius</i>		Winters	Mar. 22	April 13	Rare, summer		7		Oct. 9	Nov. 6	Nov. 21, 1886 (A. K. Fisher)
Baltimore Oriole.....	31	Feb. 18, 1890! (W. Palmer)	Mar. 26	May 4	May 12, 1918 (L. Griscom)		8	Sept. 21, 1903 (W. W. Cooke)	Oct. 8	Oct. 29	Nov. 22, 1886 ² (H. W. Henshaw)
Rusty Blackbird.....	27	Mar. 30, 1893 ³ (Richmond M. S.)	April 22	Breeds					8	Oct. 22	Nov. 20, 1899 (E. A. Preble)
<i>Euphagus carolinus</i>											
Purple Grackle.....											
<i>Quiscalus quiscula ridgwayi</i>											
Purple Finch.....											
<i>Carpodacus purpureus purpureus</i>											
Pine Siskin.....											
<i>Spinus pinus pinus</i>											
Vesper Sparrow.....											
<i>Pooecetes gramineus gramineus</i>											
Savannah Sparrow.....											
<i>Passerculus sandwichensis sananna</i>											
Grasshopper Sparrow.....											
<i>Ammodramus sacannarium australis</i>											

¹Two records of wintering.

²Three records in late December.

³Accidental, Feb. 8, 1900 (S. D. Judd).

SPECIES.	No. of dates.	Earliest date of Spring arrival.	Average date of Spring arrival.	No. of dates.	Average date of Spring departure.	Latest date of Spring departure.	No. of dates.	Earliest date of fall arrival.	Average date of fall arrival.	No. of dates.	Average date of fall departure.	Latest date of fall departure.
Henslow's Sparrow.....	23	April 1, 1917 (M. T. Cooke)	April 19	Breeds	May 17, 1908 (A. M. Stimson)	May 19, 1917 (M. T. Cooke)	26	Sept. 14, 1918 (Miner & Moore)	Oct. 7	15	Nov. 14	Dec. 17, 1899 (P. Bartsch)
<i>Nemospiza henslowii susurrans</i>												
White-crowned Sparrow.....	9	April 11, 1905 ¹ (W. W. Cooke)	April 28	May 14	May 20	May 30, 1917 (A. W. Wetmore)	3	Sept. 30, 1894 (Richmond M.S.)	Oct. 6	2	Oct. 19	Oct. 21, 1888 (W. Palmer)
<i>Zonotrichia leucophrys</i>												
White-throated Sparrow.....		Winters	27	May 23	May 27	May 27, 1917 (A. W. Wetmore)	14	Oct. 3, 1859 (Spec. U.S.N.M.)	Oct. 4	9	Nov. 8	
<i>Zonotrichia albicollis</i>												
Tree Sparrow.....		Winters	21	Mar. 27	Mar. 27	Mar. 27, 1917 (A. W. Wetmore)	14	Oct. 3, 1859 (Spec. U.S.N.M.)	Nov. 8	9	Nov. 19	
<i>Spizella arborea arborea</i>												
Chipping Sparrow.....	32	Feb. 9, 1902 (H. W. Maynard)	Mar. 22	Breeds	Breeds	Breeds	26	Sept. 14, 1918 (Miner & Moore)	Oct. 7	15	Nov. 14	Dec. 17, 1899 (P. Bartsch)
<i>Spizella passerina passerina</i>												
Slate-colored Junco.....	8	April 21, 1918 (L. Griscom)	May 6	May 20	May 20	May 30, 1917 (A. W. Wetmore)	3	Sept. 30, 1894 (Richmond M.S.)	Oct. 6	2	Oct. 19	Oct. 21, 1888 (W. Palmer)
<i>Junco hyemalis hyemalis</i>												
Lincoln's Sparrow.....	21	Occ. winter	Mar. 26	May 12	May 12	May 27, 1917 (A. W. Wetmore)	14	Sept. 28, 1890 ⁴ (C. W. Richmond)	Oct. 9	9	Nov. 8	
<i>Melospiza lincolni lincolni</i>												
Swamp Sparrow.....	22	Rare, winter	Mar. 4	April 17	April 17	May 11, 1917 (M. J. Pellow)	19	Oct. 3, 1906 (A. K. Fisher)	Oct. 28	9	Nov. 19	
<i>Melospiza georgiana</i>												
Fox Sparrow.....	32	Rare, winter	Mar. 28	Breeds	Breeds	Breeds	4	Aug. 29, 1887 (Spec. U.S.N.M.)	Sept. 4	10	Oct. 1	Oct. 16, 1920 (J. Kittredge, Jr.)
<i>Passerella iliaca iliaca</i>												
Chewink.....	7	May 1, 1878 (W. Palmer)	May 5	Breeds	Breeds	Breeds	7	Sept. 20, 1884 (Spec. U.S.N.M.)	Sept. 14	7	Sept. 14	Sept. 20, 1884 (Spec. U.S.N.M.)
<i>Pipilo e. erythrophthalmus</i>												
Rose-breasted Grosbeak.....	35	April 17, 1902 (H. W. Maynard)	May 1	May 19	May 19	June 3, 1917 (J. N. Gabrielson)	4	Aug. 29, 1887 (Spec. U.S.N.M.)	Sept. 4	10	Oct. 1	Oct. 16, 1920 (J. Kittredge, Jr.)
<i>Heidymelles ludovicianus</i>												
Blue Grosbeak.....	32	April 18, 1918 (E. A. Chapin)	April 30	Breeds	Breeds	Breeds	15	Oct. 13, 1887 (Richmond M.S.)	Oct. 10	15	Oct. 10	Dec. 13, 1887 (Richmond M.S.)
<i>Gairana caerulea caerulea</i>												
Indigo Bunting.....	19	April 18, 1896 (Richmond M.S.)	May 1	Breeds	Breeds	Breeds	16	Oct. 4 (Richmond M.S.)	Oct. 4	16	Oct. 4	Nov. 13, 1896 (Richmond M.S.)
<i>Passerina cyanea</i>												
Scarlet Tanager.....	25	Mar. 9, 1908 (I. R. Hitt)	Mar. 29	Breeds	Breeds	Breeds	7	Sept. 14 (H. Olive)	Sept. 14	7	Sept. 14	Sept. 19, 1906 (H. Olive)
<i>Piranga oltacea</i>												
Summer Tanager.....												
<i>Piranga rubra rubra</i>												
Purple Martin.....												
<i>Progne subis subis</i>												

¹One record in January (J. H. Gaud). ²Accidental, Aug. 9, 1907 (N. R. Wood). ³Accidental, May 11, 1917 (A. M. Stimson).
⁴Accidental, Aug. 21, 1913 (W. D. Appel).

Cliff Swallow.....	13 April 10, 1887 (A. K. Fisher)	April 24	9 May 21	June 7, 1877 (W. Palmer)	2 July 6, 1889 (Spec. U. S. N. M.)	July	8	2 Aug.	7 Aug. 11, 1882 (H. W. Henshaw)
<i>Petrochelidon albigrons albigrons</i>	29 Mar. 30, 1890 (C. W. Richmond)	April 12		Breeds				11 Sept.	7 Sept. 21, 1920 (P. C. Lincoln)
Barn Swallow.....	29 Mar. 24, 1914 (R. W. Moore)	April 11	20 May 14	May 26, 1889 (C. W. Richmond)	12 July 3, 1912 (A. H. Howell)	July 31		7 Sept.	22 Oct. 14, 1911 (A. K. Fisher)
Tree Swallow.....	21 April 4, 1918 (J. N. Gabrielson)	April 20		Breeds				11 Sept.	5 Sept. 21, 1920 (P. C. Lincoln)
Bank Swallow.....	33 Mar. 31, 1912 (W. W. Cooke)	April 10		Breeds				4 Sept.	2 Sept. 11, 1920 (H. C. Oberholser)
Rough-winged Swallow.....	37 April 21, 1895 (H. Oldys)	April 29		Breeds				15 Oct.	12 Nov. 11, 1888 (Richmond M.S.)
Red-eyed Vireo.....	4 May 6, 1918 (A. Wetmore)	May 9	2 May 25	May 30, 1917 (A. Wetmore)	4 Sept. 7, 1919 (A. K. Fisher)	Sept. 10		7 Sept.	22 Oct. 5, 1919
Philadelphia Vireo.....	29 April 21, 1895 (H. Oldys)	May 2		Breeds				5 Aug.	30 Sept. 12, 1903 (W. W. Cooke)
Warbling Vireo.....	34 April 16, 1916 (S. W. McAllott)	April 25		Breeds				12 Sept.	13 Sept. 29, 1907 (R. W. Williams)
Yellow-throated Vireo.....	27 April 6, 1905 (T. H. Leverty)	April 18	13 May 14	May 25, 1918 (J. N. Gabrielson)	11 Sept. 6, 1903 (W. L. McAtee)	Oct. 1		16 Oct.	21 Nov. 3, 1906 (S. W. McAllott)
Solitary Vireo.....	41 April 10, 1912 (W. D. Appel)	April 22		Breeds				9 Oct.	7 Oct. 28, 1910 (M. D. Suter)
White-eyed Vireo.....	47 Mar. 30, 1908 (H. Oldys)	April 16		Breeds				21 Sept.	22 Oct. 18, 1890 (C. W. Richmond)
Black and White Warbler.....	30 April 25, 1908 (A. K. Fisher)	May 2		Breeds				10 Aug.	31 Sept. 13, 1879 (Richmond M.S.)
Worm-eating Warbler.....	21 April 24, 1917 (J. N. Gabrielson)	May 3	9 May 22	Once nested (C. W. Richmond)	2 Aug. 13, 1889 (C. W. Richmond)	Aug. 19		3 Sept.	2 Sept. 5, 1916 (Miner & Moore)
Blue-winged Warbler.....	22 April 27, 1913 (W. D. Appel)	May 3	10 May 15	May 20, 1882 (H. W. Henshaw)	Aug. 8, 1889			2 Aug.	25 Aug. 29, 1886 (A. K. Fisher)
Golden-winged Warbler.....	21 April 23, 1918 (J. N. Gabrielson)	May 3	10 May 16	May 20, 1917 (D. C. Mabbott)	4 Sept. 5, 1882 (Richmond M.S.)	Sept. 13		4 Oct.	6 Oct. 13, 1918 (C. H. Rogers)
Nashville Warbler.....	9 May 4, 1919 (H. H. T. Jackson)	May 8	5 May 29	June 3, 1917 (J. N. Gabrielson)	3 Aug. 31, 1890 (Spec. U. S. N. M.)	Sept. 5		11 Oct.	11 Oct. 19, 1919 (M. J. Pellew)
Tennessee Warbler.....	36 April 17, 1912 (W. L. McAtee)	April 24		Breeds				18 Oct.	4 Oct. 17, 1919 (M. J. Pellew)
Parula Warbler.....	19 April 19, 1914 (J. H. Riley)	May 3	13 May 17	May 30, 1917 (A. Wetmore)	13 Aug. 4, 1892 (Richmond M.S.)	Sept. 5		17 Oct.	18 Dec. 16, 1916 (C. W. Richmond)
Cape May Warbler.....	46 April 2, 1916 (W. L. McAtee)	April 22		Breeds				4 Sept.	17 Oct. 12, 1910 (E. J. Brown)
Yellow Warbler.....	41 April 19, 1896 (Richmond M.S.)	May 1	24 May 21	May 30, 1888 (C. W. Richmond)	14 Aug. 21, 1887 (A. K. Fisher)	Sept. 8		16 Oct.	8 Oct. 29, 1913 (L. D. Miner)
<i>Dendroica aestiva aestiva</i>	26 Feb. winter (Few, winter)	Mar. 16	24 May 18	May 30, 1917 (A. Wetmore)	26 Sept. 14, 19181 (Miner & Moore)	Oct. 6		6 Nov.	23

1 Accidental, Aug. 7, 1859 (Richmond M.S.).

SPECIES.	No. of dates.	Earliest date of spring arrival.	Average date of spring arrival.	No. of dates.	Average date of spring departure.	Latest date of spring departure.	No. of dates.	Earliest date of fall arrival.	Average date of fall arrival.	No. of dates.	Average date of fall departure.	Latest date of fall departure.
Magnolia Warbler.....	36	April 22, 1891 (C. W. Richmond)	May 5	16	May 26	June 4, 1917 (J. N. Gabrielson)	16	Aug. 15, 1886 (A. K. Fisher)	Aug. 31	17	Oct. 1	Oct. 28, 1916 (L. D. Miner)
Chestnut-sided Warbler.....	37	April 19, 1902 (H. W. Maynard)	May 20	20	May 22	June 2, 1917 (L. D. Miner)	15	Aug. 10, 1894 (C. W. Richmond)	Aug. 24	11	Sept. 29	Oct. 14, 1906 (A. K. Fisher)
Bay-breasted Warbler.....	27	May 2, 1896 (H. Oldys)	May 10	12	May 25	June 5, 1917 (J. N. Gabrielson)	10	Sept. 1, 1896 (W. Palmer)	Sept. 9	14	Oct. 8	Nov. 6, 1887 (H. W. Henshaw)
Blackpoll Warbler.....	38	April 21, 1916 (R. W. Moore)	May 5	33	June 1	June 16, 1907 (R. W. Williams)	18	Aug. 17, 1912 (H. C. Oberholser)	Sept. 11	22	Oct. 12	Oct. 26, 1908 (R. W. Williams)
Blackburnian Warbler.....	32	April 23, 1920 (A. Wetmore)	May 4	18	May 22	June 3, 1907 (W. W. Cooke)	14	Aug. 2, 1872 (E. Coues)	Aug. 27	11	Sept. 26	Oct. 10, 1919 (M. J. Pellew)
Yellow-throated Warbler.....	17	April 5, 1910 (W. W. Cooke)	April 18	.....	.....	Breeds	.....	.....	.....	3	Aug. 31	Sept. 7, 1881 (Richmond MS.)
Black-throated Green Warbler.....	32	April 18, 1920 (B. H. Swales)	April 29	17	May 22	June 10, 1917 (D. C. Mabbott)	15	Aug. 26, 1888 (A. K. Fisher)	Sept. 7	23	Oct. 6	Oct. 21, 1888 (Spec. U.S.N.M.)
Pine Warbler.....	29	Mar. 6, 1910 (W. W. Cooke)	Mar. 31	.....	.....	Breeds	.....	.....	.....	12	Oct. 7	Oct. 24, 1916 (H. C. Oberholser)
Yellow Palm Warbler.....	27	Mar. 31, 1889 (H. W. Henshaw)	April 8	27	April 27	May 12, 1913 (H. H. T. Jackson)	6	Sept. 4, 1887 (H. W. Henshaw)	Sept. 19	16	Oct. 20	Nov. 18, 1914 (J. H. Riley)
Prairie Warbler.....	39	April 12, 1883 (H. W. Henshaw)	April 23	.....	.....	Breeds	.....	.....	.....	10	Sept. 16	Oct. 3, 1910 (E. J. Brown)
Ovenbird.....	38	April 10, 1904 (J. H. Riley)	April 22	.....	.....	Breeds	.....	.....	.....	18	Oct. 3	Nov. 13, 1887 (H. W. Henshaw)
Northern Water-thrush.....	29	April 18, 1920 (B. H. Swales)	April 29	18	May 25	June 2, 1907 (A. K. Fisher)	11	July 21, 1894 (Richmond MS.)	Aug. 9	13	Sept. 24	Oct. 16, 1919 (M. J. Pellew)
Louisiana Water-thrush.....	22	Mar. 31, 1918 (A. Wetmore)	April 9	.....	.....	Breeds	.....	.....	.....	5	Sept. 16	Sept. 30, 1919 (M. J. Pellew)
Kentucky Warbler.....	21	April 26, 1917 (M. T. Cooke)	May 3	.....	.....	Breeds	.....	.....	.....	5	Aug. 28	Sept. 5, 1920 (A. K. Fisher)
Oporornis formosus.....	4	April 30, 1911 (H. H. T. Jackson)	May 15	.....	.....	May 30, 1882 (H. W. Henshaw)	19	Aug. 28, 1886 (Richmond MS.)	Sept. 21	10	Oct. 14	Oct. 24, 1889 (W. Palmer)
Oporornis agilis.....	14	May 6, 1896 (W. Palmer)	May 15	6	May 28	June 7, 1917 (F. Harper)	3	Aug. 17, 1894 (Richmond MS.)	Aug. 19	2	Sept. 30	Oct. 1, 1894 (W. Palmer)

1. Accidental, July 30, 1893 (E. J. Brown).

Maryland Yellow-throat.....	48	April 13, 18911 (W. Palmer)	April 21	Breeds	15	Oct. 7	Nov. 2, 19191 (F. Harper)
<i>Geothlypis trichas trichas</i>							
Yellow-breasted Chat.....	44	April 14, 1917 (H. P. Childs)	April 30	Breeds	4	Sept. 13	Sept. 28, 1906 (A. K. Fisher)
<i>Icteria virens virens</i>							
Hooded Warbler.....	29	April 13, 1919 (A. Wetmore)	May 1	Breeds	6	Sept. 14	Oct. 1, 1899 (J. H. Riley)
<i>Wilsonia citrina</i>							
Wilson's Warbler.....	35	May 1, 1876 (H. W. Henshaw)	May 8	May 24, 1891 (F. C. Kirkwood)	4	Aug. 27	Sept. 19, 1919 (M. J. Pellet)
<i>Wilsonia pusilla pusilla</i>							
Canadian Warbler.....	30	May 3, 1908 (C. R. Shoemaker)	May 8	May 25, 1917 (F. Harper)	11	Aug. 18	Sept. 16, 1908 (R. W. Williams)
<i>Wilsonia canadensis</i>							
American Redstart.....	43	April 15, 1877 (W. Palmer)	April 22	Breeds	28	Sept. 19	Oct. 8, 1916 (D. C. Mabbott)
<i>Setophaga ruticilla</i>							
American Pipit.....	15	Feb. 16, 1908 (W. W. Cooke)	Mar. 13	May 14, 1910 (E. A. Preble)	5	Oct. 7	Nov. 14, 1915 (A. Wetmore)
<i>Anthus spinoletta rubescens</i>							
Catbird.....	38	Mar. 14, 19182 (C. M. Shaw)	April 22	Breeds	14	Oct. 25	Dec. 6, 19173 (B. H. Swales)
<i>Dumetella carolinensis</i>							
Brown Thrasher.....	34	Mar. 4, 18674 (Spec. U. S. N. M.)	April 3	Breeds	14	Sept. 24	Nov. 13, 1887 (H. W. Henshaw)
<i>Toxostoma rufa</i>							
House Wren.....	39	Mar. 26, 1910 (E. B. Gregg)	April 18	Breeds	11	Oct. 16	Nov. 26, 1914 (F. M. Weston, Jr.)
<i>Troglodytes aedon aedon</i>							
Winter Wren.....							
<i>Nannus troglodytes hiematis</i>							
Long-billed Marsh Wren.....	26	April 15, 1896 (W. Palmer)	April 30	Breeds	17	Sept. 27, 18895 (C. W. Richmond)	Nov. 12, 18856 (H. W. Henshaw)
<i>Telmodytes palustris palustris</i>							
Brown Creeper.....							
<i>Certhia familiaris americana</i>							
Red-breasted Nuthatch.....							
<i>Sitta canadensis</i>							
Golden-crowned Kinglet.....							
<i>Regulus satrapa satrapa</i>							
Ruby-crowned Kinglet.....	30	Occ. winter	April 7	May 4, 1917 (J. N. Gabrielson)	21	Sept. 14, 1913 (W. W. Cooke)	Nov. 9
<i>Corthylio calendula calendula</i>							
Blue-gray Gnatcatcher.....	35	Mar. 6, 19168 (L. D. Miner)	April 8	Breeds	3	Aug. 18, 1889 (C. W. Richmond)	Nov. 23, 1890 (C. W. Richmond)
<i>Poliopitta caerulea caerulea</i>							
Wood Thrush.....	42	April 13, 1888 (E. M. Hasbrouck)	April 25	Breeds	13	Oct. 2	Oct. 30, 1913 (A. H. Howell)
<i>Hylocichla mustelina</i>							
Wilson's Thrush.....	30	April 20, 1889 (A. K. Fisher)	May 1	May 21, 1907 (A. K. Fisher)	10	Sept. 1	Oct. 1, 1916 (L. D. Miner)
<i>Hylocichla f. fuscescens</i>							
Gray-cheeked Thrush.....	23	May 7, 1912 (W. W. Cooke)	May 11	May 26, 1917 (J. N. Gabrielson)	15	Sept. 2, 1888 (A. K. Fisher)	Oct. 20, 1903 (A. K. Fisher)
<i>Hylocichla minima alitiae</i>							
Olive-backed Thrush.....	36	April 19, 1896 (Richmond M. S.)	May 4	May 24, 1917 (F. Harper)	22	Sept. 18, 1900 (R. W. Shufeldt)	Nov. 1, 1886 (A. K. Fisher)
<i>Hylocichla ustulata swainsoni</i>							
Hermit Thrush.....	19	Rare, winter	Mar. 8	May 1, 1902 (W. W. Cooke)	1	Oct. 18	Nov. 20
<i>Hylocichla guttata pallasi</i>							

¹Accidental, March 5, 1859 (Spec. U. S. N. M.), and Dec. 29, 1913 (McAtee and Preble).
²Accidental, Feb. 21, 1915 (S. W. Mellott).
³Accidental, Dec. 25-31, 1883 (H. W. Henshaw).
⁴Accidental, Feb. 22, 1916 (Miner & Moore).
⁵Accidental, Aug. 10, 1876 (Spec. U. S. N. M.).
⁶Accidental, Dec. 27, 1914-Jan. 3, 1915 (W. W. Cooke).
⁷Accidental, June 2, 1912 (A. G. Whitney).
⁸Accidental, Jan. 1, 1917 (M. T. Cooke).