

ing scenes so bewitching. Each bend in the shore (and bends were the rule, not the exception) seemed to present a more beautiful picture than the last. The finest view of all appeared to be the one directly above Bebek, with its ancient defensive walls and towers and the handsome, new buildings of Robert College crowning the summit of the hill. Only a few birds were seen during the morning hours spent on the college grounds. Flocks of noisy Jackdaws frequently flew overhead. There were seen my first Common Wren (*Troglodytes parvulus*) and my first Blue Titmouse (*Parus cæruleus*) besides the Great Titmouse and female Chaffinch, which were fast becoming old acquaintances. While on the Bosphorus excursion there were seen the Hooded Crow, an Alpine Swift and the Gulls as usual; also more shorebirds than on previous days. Several sizes of them could be distinguished, and they were in flocks numbering from thirty to one hundred, making in the aggregate a thousand or more birds; nearly that number were counted.

Our last contact with the soil of Asia was made upon the trip to Scutari. In a cemetery in which are buried eight thousand soldiers, who died in the Crimean War, a bird was singing blithely his vernal song. It proved to be a male Chaffinch, the first one I had noted. As we sailed into the Sea of Mamora late that day the graceful outlines of Constantinople were tenderly enfolded in the violet-hues of evening, touched here and there by the afterglow of sunset.

FALL MIGRATION RECORDS (1906-1915) AT ANN ARBOR, MICHIGAN.

BY A. D. TINKER AND N. A. WOOD.

The following series of tabulated records represents the combined field-work of Mr. F. O. Novy, the authors and other observers in the vicinity of Ann Arbor, Michigan, during the fall migrations of the years 1906-1915 inclusive. The immediate vicinity of Ann Arbor has been pretty thoroughly worked, but the outlying districts have not received the atten-

tion that they deserve. Washtenaw County, of which Ann Arbor is the county seat, with its large areas of woodland, marsh, cultivated fields and numerous lakes, is rich in bird-life of varied character. However, the various habitats are so scattered that it is very difficult to cover them all during the limited periods of the migrations. For this reason many of our fall records are very incomplete and misleading as to the comparative abundance of certain species. A large number of the lakes in the county are known to swarm with wild-fowl during the fall migration, but as these lakes are seldom visited by others than hunters and fishermen it has been hard to secure reliable data on the various species frequenting them at that time.

Some species, the majority of which breed outside of the county, are known to nest here occasionally. Such species have been indicated in the list by an asterisk (*). Records of first arrivals of these irregular breeders are consequently open to error owing to the difficulty of determining which are summer residents and which transients. It will also be noticed that species have been included which in reality are occasional winter visitants and not regular migrants. Of these the Snowy Owl, Saw-whet Owl, Evening Grosbeak, Pine Grosbeaks, Redpoll, Crossbills, Snowflake and Bohemian Waxwing are the most noteworthy. Gannets, Double-crested Cormorant and Caspian Tern are merely occasional visitants, although it is possible that more extensive field-work would show some of these to be more regular in their occurrence than the records would indicate.

In the tabulated list the dates given are for first arrivals. For some species these will be seen to vary considerably for the different years. No doubt more thorough observations would show greater uniformity in the records. The order of the species is that followed in the A. O. U. Check List (1910 Edition).

TABULATED RECORDS

	1906	1907	1908	1909	1910	1911	1912	1913	1914	1915
Horned Grebe					Sept. 2	Sept. 15	Oct. 3	Oct. 5	Sept. 21	Sept. 9
* Pied-billed Grebe					Aug. 3	Sept. 4	Sept. 29	Aug. 21	Sept. 21	Oct. 15
Loon				Aug. 5	Sept. 1	Oct. 14	Oct. 1	Sept. 29	Aug. 10	Aug. 22
Herring Gull				Aug. 20	Sept. 7	Sept. 10		Sept. 15		Aug. 9
Bonaparte's Gull				Sept. 5	Aug. 25	Aug. 26			Aug. 27	Sept. 5
Caspian Tern				Aug. 14	July 7	Aug. 3	Nov. 15			Aug. 13
Common Tern				Aug. 14	Aug. 7	Aug. 3	Sept. 7			
Black Tern						Oct. 19				
Gannet						Oct. 20				
Double-crested Cormorant						Dec. 1	Nov. 30		Dec. 1	Nov. 13
Merganser					Dec. 18	Oct. 22	Nov. 30			
Red-breasted Merganser						Nov. 4	Nov. 23			
Mallard					Nov. 5	Oct. 22	Nov. 10	Oct. 18	Sept. 15	Nov. 28
* Black Duck	Sept. 2	Sept. 22	Sept. 2.	Oct. 16	Aug. 23	Aug. 10	Aug. 1	Aug. 1	Oct. 25	Nov. 25
Baldpate		Sept. 2		Aug. 30	Sept. 24	Nov. 4				
Green-winged Teal				Sept. 23	Oct. 29			Oct. 18		Oct. 17
Blue-winged Teal								Sept. 1		
Shoveller		Oct. 1	Oct. 10			Sept. 30				
Pintail			Sept. 13			Nov. 4				
* Wood Duck		Oct. 25	Sept. 2	Aug. 14	Aug. 11	Aug. 4	Aug. 20	Aug. 21	Oct. 15	Oct. 23
Redhead	Oct. 11		Oct. 10	Dec. 3						Oct. 30
Canvas-back	Nov. 10			Nov. 7	Nov. 5					Nov. 20
Scaup				Dec. 3	Oct. 22	Oct. 28	Oct. 27			Oct. 23
Lesser Scaup				Dec. 3	Nov. 26	Oct. 28	Nov. 16		Dec. 1	Oct. 23
Golden-eye				Nov. 7	Nov. 6	Oct. 28	Nov. 16		Oct. 12	Oct. 23
Buffle-head	Nov. 10	Sept. 17	Nov. 28							Oct. 23
Ruddy Duck	Nov. 14	Sept. 2	Nov. 7							Oct. 20
Snow Goose		Oct. 20			Nov. 6	Nov. 1				

TABULATED RECORDS—Continued

	1906	1907	1908	1909	1910	1911	1912	1913	1914	1915
Yellow-bellied Flycatcher					Sept. 6					
Prairie Horned Lark				Oct. 3		Oct. 8	Oct. 13			
Rusty Blackbird	Oct. 12	Oct. 6	Oct. 4	Oct. 16	Oct. 23	Oct. 25	Oct. 19	Oct. 19		
Evening Grosbeak	Nov. 25	Oct. 6	Nov. 28			Jan. 19				
Pine Grosbeak		Jan. 1								
Purple Finch	Oct. 7	Sept. 22	Oct. 4	Oct. 3	Oct. 9	Oct. 15	Oct. 27			
Crossbill			Nov. 7							
White-winged Crossbill		Jan. 19								
Redpoll	Dec. 15	Jan. 27	Dec. 19	Jan. 1		Oct. 8	Jan. 17	Oct. 17		Dec. 25
Pine Siskin	Nov. 18	Jan. 27	Sept. 26	Jan. 23		Feb. 10	Feb. 1	Mar. 3		Oct. 30
Snowflake		Dec. 25	Jan. 16	Nov. 1	Dec. 24	Oct. 8		Oct. 4		Nov. 13
Savanna Sparrow					Sept. 17					
Lark Sparrow			Oct. 11							
White-crowned Sparrow	Oct. 3	Oct. 6	Oct. 4	Sept. 26	Oct. 9	Oct. 15	Sept. 27	Oct. 4		
White-throated Sparrow	Sept. 23	Oct. 23	Oct. 4	Sept. 18	Sept. 25	Sept. 10	Sept. 15	Sept. 14		Oct. 15
Tree Sparrow	Sept. 23	Sept. 20	Oct. 25	Oct. 24	Oct. 23	Oct. 22	Oct. 27	Oct. 31		Oct. 16
Slate-colored Junco	Sept. 23	Oct. 6	Sept. 20	Sept. 30	Sept. 29	Aug. 20	Sept. 29	Sept. 25	Oct. 15	Oct. 3
Fox Sparrow	Oct. 12	Oct. 13	Oct. 4	Oct. 24	Oct. 2	Oct. 7	Oct. 27	Oct. 6		Oct. 21
Bohemian Waxwing										Oct. 23
Northern Shrike				Nov. 25						
Blue-headed Vireo	Sept. 26		Oct. 7	Sept. 26	Oct. 2	Sept. 24	Sept. 29	Sept. 25		
Black and White Warbler		Sept. 8	Aug. 23	Aug. 29	Aug. 22	Aug. 20	Aug. 28	Aug. 27		Aug. 15
*Golden-winged Warbler				July 20			Sept. 1			
Nashville Warbler			Sept. 9	Sept. 18	Sept. 7	Sept. 3	Sept. 15	Aug. 28	Sept. 25	Aug. 14
Orange-crowned Warbler	Sept. 20									
Tennessee Warbler	Oct. 3		Sept. 4	Sept. 30	Sept. 7	Sept. 3	Sept. 22	Aug. 27	Sept. 13	Sept. 22
Northern Parula Warbler	Oct. 14	Sept. 22	Sept. 27	Sept. 4	Sept. 15	Sept. 17	Sept. 8	Sept. 8		
Cape May Warbler		Sept. 15	Sept. 9	Sept. 11	Sept. 11	Aug. 28	Sept. 22	Aug. 30	Oct. 11	

FALL MIGRATION RECORDS

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TABULATED RECORDS—Continued

	1906	1907	1908	1909	1910	1911	1912	1913	1914	1915
Black-throated Blue Warbler										
Myrtle Warbler	Sept. 9	Sept. 24	Sept. 24	Sept. 6	Aug. 30	Sept. 3	Sept. 3	Sept. 4	Sept. 11	
Magnolia Warbler	Sept. 17	Oct. 6	Aug. 23	Aug. 29	Oct. 2	Sept. 16	Sept. 22	Sept. 4	Sept. 11	Oct. 15
Cerulean Warbler		Sept. 6		July 20	Sept. 7	Aug. 20	Sept. 3	Aug. 27	Sept. 12	
Chestnut-sided Warbler			Sept. 11	Sept. 3	July 20	Aug. 25	Sept. 3	Aug. 28		
Bay-breasted Warbler	Sept. 27		Sept. 4	Sept. 6	Sept. 7	Aug. 20	Sept. 3	Aug. 28	Sept. 11	Sept. 5
Black-poll Warbler	Sept. 27	Sept. 28	Sept. 9	Aug. 29	Sept. 7	Sept. 3	Sept. 1	Aug. 30	Sept. 11	Sept. 29
Blackburnian Warbler		Sept. 8	Aug. 23	Sept. 11	Aug. 30	Aug. 25	Aug. 28	Aug. 25	Sept. 11	Sept. 22
Blk-throated Green Warbler		Sept. 8	Sept. 9	Sept. 6	Aug. 30	Aug. 25	Sept. 3	Aug. 30	Sept. 11	Sept. 22
Pine Warbler			Oct. 25					Sept. 12		
Palm Warbler			Sept. 16		Sept. 15	Sept. 22	Sept. 3	Sept. 19		
Grinnel's Water-thrush		Sept. 1	Aug. 24	Sept. 26	Aug. 3	Aug. 20	Sept. 3	Sept. 7		
* Louisiana Water-thrush						Sept. 20		Sept. 14		
Connecticut Warbler						Sept. 20		Sept. 7		
Mourning Warbler						Sept. 3		Sept. 14		
Wilson's Warbler		Sept. 8	Oct. 1	Sept. 3	Aug. 30	Sept. 10	Aug. 23	Sept. 4		
Canadian Warbler			Aug. 23	Sept. 3	Aug. 29	Aug. 30	Aug. 23	Nov. 5		Oct. 16
Pipit	Oct. 21		Oct. 10	Oct. 24	Oct. 7	Oct. 8		Oct. 13		Sept. 22
Winter Wren	Sept. 21	Oct. 6	Oct. 4			Sept. 20				
* Short-billed Marsh Wren						Sept. 10		Sept. 12		
Brown Creeper	Oct. 7	Sept. 26	Oct. 7	Oct. 17	Sept. 16	Sept. 28	Sept. 29	Sept. 12		Sept. 22
Red-breasted Nuthatch	Sept. 2	Oct. 21	Sept. 10	Sept. 26	Sept. 7	Aug. 31	Aug. 27	Aug. 27		Sept. 22
* Tufted Titmouse			Oct. 2							Jan. 2
Golden-crowned Kinglet	Sept. 23	Oct. 6	Oct. 2	Sept. 26	Sept. 21	Sept. 20	Sept. 29	Sept. 14	Oct. 11	Oct. 21
Ruby-crowned Kinglet	Sept. 30	Oct. 13	Sept. 27	Sept. 28	Sept. 21	Sept. 22	Oct. 13	Sept. 9	Oct. 12	Oct. 16
* Veery	Sept. 5							Sept. 7		
Gray-checked Thrush	Sept. 23	Sept. 19	Sept. 9	Sept. 7	Sept. 7	Sept. 3	Sept. 15	Sept. 30	Sept. 1	
Olive-backed Thrush		Sept. 15	Sept. 9	Sept. 6	Sept. 11	Sept. 13	Sept. 27	Sept. 5		
Hermit Thrush	Sept. 5	Oct. 2	Sept. 27	Oct. 3	Sept. 25	Sept. 28		Oct. 5		Oct. 16