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#### NOTES ON INDIANA BIRDS.

BY A. W. BUTLER.

The following observations are supplementary to the paper on the Birds of Indiana published in the Transactions of the Indiana Horticultural Society 1890:

*Ammodramus leconteii* (Aud.). Le Conte's Sparrow.

Mr. J. E. Beesley took a specimen of this species from a flock of three or four sparrows, possibly of the same kind at Lebanon, Ind., March 30, 1892. This is the third record for the state.

*Dendroica discolor* (Vieill.). Prairie Warbler.

Mr. Beesley took two or them at Lebanon, Ind., April 29, 1892. This is the fourth locality from which they have been reported in the state and the first record from the northern half. Another record however has recently come to hand. Mr. W. O. Wallace took one specimen May 2, 1892 at Wabash.

*Dendroica tigrina* (Gmel.). Cape May Warbler.

The spring of 1892 this species was comparatively common throughout the state. Only twice have they heretofore been reported in any numbers, and never so numerously as last year.

*Ardea egretta* (Gmel.). American Egret.

Rare throughout the northern part of the state. A male in full plumage was killed May 17, 1892 near Frankfort, Ind. Detailed information regarding its breeding in the state is much desired.

*Pelecanus erythrorhynchos* Gmel. White Pelican.

A bird of this species was killed May 25, 1892 near Bloomfield, Greene county, Ind.

*Botaurus exilis* (Gmel.). Least Bittern.

One specimen was taken May 10 and another May 19, 1892 near Lebanon, Ind. I am informed by Mr. J. E. Beesley that they breed in that vicinity but not abundantly. Mr. W. O. Wallace took two specimens at Wabash early in May 1892.

*Clangula hyemalis* (Linn.). Old Squaw.

Mr. Beesley informs me that a bird of this species was killed near Throntown, in May 1892.

*Phalaropus lobatus* (Linn.). Northern Phalarope.

A pair taken in Boone county, June 7, 1889 (Beesley). This is the second record for the state. The specimens and those of the next species are probably now in the state collection at Indianapolis.

*Phalaropus tricolor* (Vieill.). Wilson's Phalarope.

A pair of these birds taken May 9, 1889 in Boone county. This is the first record from that part of the state.

*Anser albifrons gambeli*. (Hartl.). American White-fronted Goose.

One was killed April 17, 1892 near Peru. (Beesley). This is its third reported occurrence in the state.

*Anhinga anhinga* (Linn.). Anhinga; Snake bird.

Mr. Beesley informs me that he killed a pair of these birds on what is known as the "Broad cut" of the canal just north of Indianapolis in 1858.

This is the first record from the state, but another specimen is reported to have been taken since. (Cat-birds of Ind. p. 18).

*Phalacrocorax dilophus floridanus* (Aud.). Florida Cormorant.

The same gentleman took a bird of this species near Indianapolis, May 8, 1858.

*Tryngites subruficollis* (Vieill.). Buff-breasted Sandpiper.

Messrs. C. D. and L. A. Test took this bird Sept. 10, 1892 from a large shallow pond about four miles northwest of Lafayette. This is the first reported occurrence of this bird within the state.

*Micropalama himantopus* (Bonap.). Stilt Sandpiper.

The same gentlemen took a specimen of this bird from the same locality Oct. 10, 1892. This is the first time it has been reported within the state. Through the kindness of the collectors this specimen, the one last mentioned and *Junco hyemalis shufeldti* have been placed in my collection.

*Colymbus holbællii* (Reinh.). Holbæll's Grebe.

Dr. J. L. Hancock, of Chicago, reports having identified it at Wolf lake, Ind., in the spring of 1883, also at Park Side, Ill., April 29, 1883. This is the only reported record of the species in Indiana.

*Larus philadelphia* (Ord.). Bonaparte's Gull.

Dr. Hancock informs me this species is a summer resident in the north-western part of the state where it frequents the large lakes in early spring and later breeds in the small inland lakes.

*Sterna antillarum* (Less.). Least Tern.

Found nesting at Wolf lake. Common some years ago but now rather rare. (Dr. J. L. Hancock).

*Aythya marila nearctica* (Stejn.). American Scaup Duck.

Identified April 9, 1887 at Hammond, by Graham Davis (Dr. Hancock).

*Anapelis garrulus* Linn. Bohemian Waxwing.

Dr. Hancock says: "A flock of eight of these birds were seen feeding on mountain ash berries March 1, 1880 in Chicago. I shot two specimens."

*Cistothorus stellaris* (Licht.). Short-billed Marsh Wren.

Noted at Hammond, Apr. 9, 1887 by Graham Davis (Dr. Hancock).

*Tringa bairdii* (Coues). Baird's Sandpiper.

A specimen taken Aug. 26, 1893 by W. O. Wallace at Wabash. The first Indiana record.

*Nyctea nyctea* (Linn.). Snowy Owl.

A specimen taken at Cedar Grove, Franklin county, December 1893. This is a rare bird in the southeastern quarter of the state.

*Calcarius lapponicus* (Linn.). Lapland Longspur.

Has been taken at Wabash, Ind. One specimen. (Wallace).

*Dendroica kirtlandi* Baird. Kirtland's Warbler.

One specimen, Wabash, Ind., May 1, 1893 taken by W. O. Wallace. This is the first specimen of this rare warbler reported from the state. Mr. Wallace has very kindly presented me with the specimen.

The species was described from a specimen taken by Dr. Kirtland near Cleveland, O. The following are the reported records of its occurrence:

1. At sea off Abaco, Bahamas, by Dr. Samuel Cabot, second week in October, 1841.

2. Near Cleveland, O., by Dr. J. P. Kirtland, male, May 15, 1851. Type specimen.

3. Near Cleveland, O., by R. K. Winslow, female, June, 1860.

4. Near Cincinnati, O., by Charles Dury, male, first week in May, 1872.

5. Ann Arbor, Mich., by A. B. Covert, female, May 15, 1875.

6, 7. Rockport, Cuyahoga county, O., by Wm. and John Hall, May, 1878.

8. Andros Island, Bahamas, by Charles B. Cory, female, Jan. 9, 1879.

9. Ann Arbor, Mich., by A. B. Covert, female, May 16, 1879.

10, 11. Cleveland, O., reported by Dr. Langdon, male and female, May 4, 12, 1880.

12. Battle Creek, Mich., male, May 11, 1883, now in U. S. National Museum.

13. St. Louis, Mo., May 8, 1885. Otto Widmann.

14. Spectacle Reef, Mich., May 25, 1885. Wm. Marshall. Struck the light at Spectacle Reef light house.

15. Near Dublin Gap Springs, Pa., June 25., 1885. Prof. H. J. Roddy. He says: "Saw one with family."

16. St. Helena Island, S. C., Apr. 27, 1886. Walter Hoxie. Reports seeing three others.

17. Near Fort Meyer, Va., Sept. 25, 1887. Wm. Palmer. Another seen a week later.

18. Ann Arbor, Mich., Apr. or May 1888, female, by Mr. Knapp.

19. Chester, S. C., female, Oct. 11, 1888. L. M. Loomis.

20. Near Minneapolis, Minn., May 13, 1892, male. H. M. Guilford.

21. Wisconsin. Dr. P. R. Hoy. Reported seen.

22. Wabash, Ind., May 1, 1893. W. O. Wallace.

The winter home of this rare and narrowly restricted species is apparently the Bahama Islands. It has been taken most commonly during the

spring migrations near Cleveland, O. and Ann Arbor, Mich. It has never been taken in the interior of the United States during the fall migrations. The summer home of this warbler would seem to be northern Michigan and Wisconsin or north thereof and possibly in the mountains of Pennsylvania. The line of its spring movements seems to be a narrow route from the Bahamas past the western end of Lake Erie toward Lake Superior. Perhaps the return migration may be over the same route but it is possible this may be, in whole or in part, farther to the eastward passing down the coast after it reaches the Atlantic.

Its distribution is very remarkable. Yet there seems to be an effort on the part of other species to follow a line remarkably similar to that noted. From the northwest into South Carolina, even to the coast, there seems to be a migration route analagous to this. Along it would seem to move, in a southeastly migration, such forms as Brewer's Blackbird, Yellow-headed Blackbird, Leconte's Sparrow, Prairie Horned Lark, typical plains forms.

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