

**The Vertebrate Collection of the Indiana State Museum:
"Old" Specimens and Records**

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Abstract

Compilation of all "old" (pre-1932) catalogue records, and a recataloguing of all vertebrates in the collection of the Indiana State Museum has resulted in the location of many important specimens and interesting records. Many of the specimens have been lost, however, and many of those existing lack data.

There are 301 entries for Indiana birds, now represented by 90 documented specimens. Included are such important specimens as an American white pelican (Fountain County, 1896), brown pelican (Marion County, 1907), tundra swan (Newton County, 1897), greater prairie chicken (Benton and Fountain counties), passenger pigeon (Wayne County, 1869), and thick-billed murre (Marion County, 1896).

Thirty-eight Indiana mammal records are now represented by eleven specimens. One hundred and seventeen turtle records, most collected by W.S. Blatchley in 1901, are represented by 80 documented specimens. Records exist for 62 additional reptiles, and for twenty-one fishes that are no longer in the collection.

Introduction

Little has been published describing the natural history collections of the Indiana State Museum (INSM). Thompson (27) published a list of invertebrate fossils, samples of building stone, and of freshwater bivalves, the predominant specimens in the collection at that time. Butler (6) referred to several birds in the State Museum collection. Hahn (9) noted that "The State Museum at Indianapolis contains a fairly representative mounted collection, but lacks a number of species of mice, shrews and bats, and has no reserve material for study." Twenty-seven years later Lyon (17), in referring to Indiana mammal collections, relates "A few are recorded by Hahn as in the State Museum. These have been moved about in the State House so many times that their labels have become lost and they are of little scientific value. Unfortunately I have not had the opportunity of assembling it in one place and studying it as a whole." The collections received poor management from the 1920's until 1967 when they were transferred to the present structure (25). From at least the late 1950's through 1981 the natural history collections and their records were generally inaccessible for study (letters, A.S. Horowitz to R.L. Richards, 13 April 1983 and to W. Bruggen, 5 July 1983; R.E. Mumford, pers. comm. October 1987). Reorganization of the natural history collections has been underway since 1982 (26). Richards (25) presented a short history of the collections and a description of the Pleistocene vertebrates.

Because such older works as Butler (6) and Hahn (9) and contemporary publications as Mumford and Keller (21) refer to, or make secondary citations to specimens in the State Museum collections, I thought it timely to make the content of the vertebrate collection known. Because of the sparsity of "early" published records, I am presenting the entire list of INSM specimens and records accumulated from 1877 through 1932.

Methods

I have compiled all "old" records, including labels, miscellaneous records, photographs and a 1932 catalogue list which supplied most of the information. A

cursory review of the literature added some documentation to several specimens. All materials on non-permanent loan were recalled. Existing vertebrates were renumbered and a new catalogue developed. Matching specimens with old catalogue records was often difficult, since three different numbering systems (often overlapping) had been used. Often, one-of-a-kind specimens without numbers could be referred to a unique catalogue listing. Fortunately, most record listings contained common and scientific names, adding to the credibility of identification of specimens that could not be located. Extensive revision to current taxonomic nomenclature was necessary. I did not include in this report records of specimens collected since 1932 nor a collection of several hundred birds eggs. These will be addressed at a later date.

Results

In all, 894 vertebrates were listed in the Museum's records. Many of those specimens have been lost and many of those existing lack data. I have listed both documented specimens (with catalogue numbers), as well as records that are unsupported by specimens (Table 1). Some exotic items, such as a three-toed sloth and great bustard were found to be on permanent loan to The Children's Museum (Indianapolis). Many specimens on loan to schools and other institutions were stolen or mutilated and some were destroyed by dermestids. Some may have been destroyed by dermestids while in the museum.

The fish catalogue consisted of only 47 entries, including such exotic items as sawfish rostra, dried cow fish and burr fish. Of thirty listings for fish found in Indiana, data was available for only 20 specimens, all but two of common occurrence within their modern ranges. There is record of a large blue catfish (*Ictalurus furcatus*) from the East Fork, White River, Lawrence County. If unstocked, this is an unusual occurrence from its normal Ohio River distribution in Indiana. All other fishes in the collection were apparently liquid preserved (alcohol or formaldehyde) and were lost prior to the 1966 move of specimens to the present quarters.

The amphibians and reptiles in the collection also were largely liquid preserved and survive today only as "stuffed" turtles and their dried shells. There are listings for 32 amphibians, 29 with Indiana documentation. The blue-spotted salamander (*Ambystoma laterale*, Starke County) record is among the few for northwestern Indiana. The record for the small-mouthed salamander (*A. texanum*, Starke County) is interesting since Minton (18) has an unconfirmed record for the Jasper-Pulaski County area to the south and for Marshall County to the east. The entry for pickerel frog (*Rana palustris*, Posey County), without specimen, is so displaced west of its modern range that I question its identification.

There are 103 entries for reptiles (exclusive of turtles), including alligators, iguanas, rattlesnake rattles and various snake eggs. One unusual Indiana listing, 24 June 1931 notes: "Blunt-head snake; shipped from South America to Indianapolis in a carload of bananas; mildly poisonous; 30 inches in length; Donated by F. Venizia, Indianapolis." Seventy-nine listings of Indiana occurring species produced data on 27 snake and 6 lizard specimens. A listing for the midland brown snake (*Storeria dekayi*), Dubois County, is curious, since this species is poorly documented in southwestern Indiana, with only an unconfirmed record for Posey County (18). The few records for the Plains garter snake (*Thamnophis radix*), include reports from northwestern Indiana and the only listing for LaPorte County. The listing of the red milk snake (*Lampropeltis triangulum sypila*) for Posey County is noteworthy, as Minton (18) also has an unconfirmed record for that county, the only record in extreme southwestern Indiana. The "red" snake is clearly separated from the two other listed milk snake specimens in the Museum's catalogue. An unusual "two headed" eastern hognose snake (*Heterodon platyrhinos*) was found near Manilla, Rush County.

TABLE 1. Documented Indiana Vertebrate Specimens and Records, "Old" Collection (pre-1932), Indiana State Museum.¹

| Cat #/Rec. | Name | Locality | Date | Comments |
|------------|--|---|--------------|--|
| R | <i>Ichthyomyzon unicuspis</i> , silver lamprey | Marion Co.; White R. | pre-1932 | |
| R | <i>Dorosoma cepedianum</i> , gizzard shad | Knox Co.; Wabash R. | pre-1932 | |
| R | <i>Esox americanus vermiculatus</i> , grass pickerel | Marion Co.; Fall Cr. | pre-1932 | |
| R | <i>Esox americanus vermiculatus</i> , grass pickerel | Noble Co.; Rome City, Elkhart, R. | pre-1932 | 2 specimens |
| R | <i>Esox americanus vermiculatus</i> , grass pickerel | Starke Co.; Bass Lake | pre-1932 | |
| R | <i>Esox americanus vermiculatus</i> , grass pickerel | Tippecanoe R. marshland | pre-1932 | |
| R | <i>Notemigonus chrysoleucas</i> , golden shiner | LaPorte Co.; Clear Lake | pre-1932 | |
| R | <i>Notropis whipplei</i> , steelcolor shiner | Owen Co.; Eel R. | pre-1932 | |
| R | <i>Catostomus commersonii</i> , white sucker | Noble Co.; Rome City | pre-1932 | |
| R | <i>Ictalurus natalis</i> , yellow bullhead | Putnam Co.; Walnut Cr. | pre-1932 | 2 specimens |
| R | <i>Ictalurus nebulosus</i> , brown bullhead | Marion Co.; Fall Cr. | pre-1932 | |
| R | <i>Ictalurus nebulosus</i> , brown bullhead | Starke Co.; Bass Lake | pre-1932 | |
| R | <i>Ictalurus furcatus</i> , blue catfish | Lawrence Co.; East Fork, White R., Williams Dam | pre-1932 | caught by Pluggie Niman; purchased 5 Nov. 1926 by Dept of J.B. Welborn; 4'4½", 78 lbs. |
| R | <i>Micropterus salmoides</i> , largemouth bass | LaPorte Co.; Pine Lake | pre-1932 | |
| R | <i>Micropterus salmoides</i> , largemouth bass | Fulton Co.; Manitou Lake | pre-1932 | |
| R | <i>Lepomis macrochirus</i> , bluegill | LaPorte Co.; Pine Lake | pre-1932 | |
| R | <i>Lepomis megalotis</i> , longear sunfish | Marion Co.; Fall Cr. | pre-1932 | |
| R | <i>Ambloplites rupestris</i> , rock bass | Tippecanoe R. marshland | pre-1932 | |
| R | <i>Pomoxis nigromaculatus</i> , black crappie | LaPorte Co.; Pine Lake | pre-1932 | |
| R | <i>Ambystoma laterale</i> , blue-spotted salamander | Starke, Co.; Bass Lake | pre-1932 | |
| R | <i>Ambystoma maculatum</i> , spotted salamander | Lawrence Co.; Mitchell | pre-1932 | |
| R | <i>Ambystoma maculatum</i> , spotted salamander | "Vawter Park" | 3 June 1902 | |
| R | <i>Ambystoma tigrinum</i> , tiger salamander | Vigo Co. | pre-1932 | 2 specimens |
| R | <i>Ambystoma tigrinum</i> , tiger salamander | Starke Co.; Bass Lake | 27 July 1902 | |
| R | <i>Ambystoma tigrinum</i> , tiger salamander | Lawrence Co.; Mitchell | pre-1932 | |
| R | <i>Ambystoma opacum</i> , marbled salamander | Knox Co. | 3 May 1902 | |

¹ abbreviations used: Cat #, present catalogue number; R, record only (no specimen); D, destroyed (specimen badly deteriorated); M, male; F, female. Note: reference is to Indiana localities, unless otherwise noted. Literature citation in brackets () under comments. Localities and dates in brackets () refer to information constructed from the literature, and not present in the Museum records.

TABLE 1.—Continued

| Cat. #/Rec. | Name | Locality | Date | Comments |
|---------------|--|--|--|----------------------------------|
| R | <i>Ambystoma opacum</i> , marbled salamander | Knox Co.; Cypress Swamp | pre-1932 | |
| R | <i>Ambystoma texanum</i> , small-mouth salamander | Knox Co.; Cypress Swamp | pre-1932 | |
| R | <i>Ambystoma texanum</i> , small-mouth salamander | Starke Co.; Bass Lake | 23 Aug. 1902 | |
| R | <i>Plethodon glutinosus</i> , slimy salamander | Perry Co.; Cannelton | 1 May 1902 | 2 specimens |
| R | <i>Plethodon cinereus</i> , redbacked salamander | Franklin Co.; Laurel | 16 May 1902 | |
| R | <i>Plethodon cinereus</i> , redbacked salamander | Putman Co. | 9 Nov. 1902 | |
| R | <i>Plethodon cinereus</i> , redbacked salamander | Perry Co.; Cannelton | pre-1932 | |
| R | <i>Eurycea bislineata</i> , two-lined salamander | Putman Co. | 9 Nov. 1902 | 5 specimens |
| R | <i>Eurycea lucifuga</i> , cave salamander | Crawford Co.; Wyandotte Cave | 25 May 1902 | |
| R | <i>Eurycea lucifuga</i> , cave salamander | Crawford Co.; Wyandotte Cave | pre-1932 | |
| R | <i>Eurycea longicauda</i> , long-tailed salamander | Franklin Co.; Laurel | 16 May 1902 | |
| R | <i>Siren intermedia</i> , lesser siren | Starke Co.; Bass Lake | 10 May 1900 | 2 specimens |
| R | <i>Rana pipiens</i> complex, leopard frog | "Vawter Park" | 11 Aug. 1902 | |
| R | <i>Rana pipiens</i> complex, leopard frog | Crawford Co.; Wyandotte | pre-1932 | |
| R | <i>Rana palustris</i> , pickerel frog | Posey Co.; Grand Chain | pre-1932 | |
| R | <i>Chelydra serpentina</i> , common snapping turtle | Wabash Co., IL; Mt. Carmel | pre-1932 | |
| R | <i>Chelydra serpentina</i> , common snapping turtle | Wayne Co.; Washington Twp., McGrew's pond. | Max Munte, Cambridge City, Sept. 1901; 21½ lbs. | |
| 71.7.6 | <i>Macrocllemys temminckii</i> , alligator snapping turtle | "Arkansas" | skull donated March 1877 (10) by Elias Wilson, Indpls. | |
| R | <i>Sternotherus odoratus</i> , musk turtle | Starke Co.; Bass Lake | pre-1932 | 2 specimens |
| R | <i>Sternotherus odoratus</i> , musk turtle | Wabash Co., IL; Mt. Carmel | pre-1932 | |
| 71.7.4 | <i>Kinosternon subrubrum</i> , mud turtle | Starke Co.; Bass Lake | May 1902 | |
| 71.7.7, and R | <i>Clemmys guttata</i> , spotted turtle | Starke Co.; Bass Lake | pre-1932 | 2 records, one existing specimen |
| R | <i>Emydoidea blandingii</i> , Blanding's turtle | Starke Co.; Bass Lake | May 1901 | |
| R | <i>Emydoidea blandingii</i> , Blanding's turtle | Lake Co.; Hammond | 1 Sept. 1902 | 2 specimens |
| R | <i>Terrapene carolina</i> , Eastern box turtle | Posey Co.; New Harmony | May 1902 | |
| R | <i>Terrapene carolina</i> , Eastern box turtle | Posey Co.; New Harmony | Oct. 1901 | 3 specimens |
| 71.7.5.8 | <i>Terrapene ornata</i> , ornate box turtle | Clinton, MO | July 1901 | |
| R | <i>Terrapene ornata</i> , ornate box turtle | Posey Co. | pre-1932 | |
| 71.7.1.18 | <i>Graptemys geographica</i> , map turtle | Posey Co.; Grand Chain, Wabash R. | Aug. 1901 | |

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| 71.7.2.8, .11, .13 | <i>Graptemys geographica</i> , map turtle | Wabash Co., IL; Mt. Carmel | July 1901 |
| 71.7.3.21, .22, .31, .38 | <i>Graptemys geographica</i> , map turtle | Posey Co.; Grand Chain and Wabash Co., IL; Mt. Carmel | 1901-1902 |
| R | <i>Graptemys pseudogeographica</i> , midland sawback turtle | Posey Co.; Grand Chain | 1901-1902 |
| 71.7.3.18 -.20, .37, .40 | <i>Graptemys pseudogeographica</i> , midland sawback turtle | Posey Co.; Grand Chain and Wabash Co., IL; Mt. Carmel | 1901-1902 |
| R | <i>Graptemys</i> sp., map/sawback turtle | Wabash Co., IL; Mt. Carmel | 1901-1902 |
| R | <i>Chrysemys picta marginata</i> , midland painted turtle | Wabash Co., IL; Mt. Carmel | 1901-1902 |
| 71.7.1.41 | <i>Chrysemys picta</i> , midland painted turtle | Posey Co.; Grand Chain, Wabash R. | Aug. 1901 |
| 71.7.1.1 -.17; .19 -.40 | <i>Pseudemys scripta elegans</i> , red-eared turtle | Posey Co.; Grand Chain, Wabash R. | 1901 (coll. two in July, 35 in Aug., two in Oct.) |
| 71.7.2.1, .3, .7, .9, .10, .12 | <i>Pseudemys scripta elegans</i> , red-eared turtle | Wabash Co., IL; Mt. Carmel | July 1901 when listed |
| 71.7.3.1 -.17 | <i>Pseudemys scripta elegans</i> , red-eared turtle | Posey Co.; Grand Chain, and Wabash Co., IL; Mt. Carmel | unmarked specimens apply to 24 Grand Chain records (most Aug., two Oct. 1901), and 9 Mt. Carmel records (July 1901) pre-1932 |
| R | <i>Pseudemys scripta elegans</i> , red-eared turtle | Marshall Co.; Lake Maxinkuckee | John Peckham, Indpls. |
| R | <i>Pseudemys concinna hieroglyphica</i> × <i>P. floridana hoyi</i> , hieroglyphic turtle | Posey Co.; Grand Chain, Wabash R. | 1901-1902 (one coll.) Aug. 1901 |
| 71.7.2.2 | <i>Pseudemys concinna hieroglyphica</i> × <i>P. floridana hoyi</i> , hieroglyphic turtle | Wabash Co., IL; Mt. Carmel | 1901-1902 |
| 71.7.3.26, .34-.36 | <i>Pseudemys concinna hieroglyphica</i> × <i>P. floridana hoyi</i> , hieroglyphic turtle | Posey Co.; Grand Chain, Wabash R. applies to 3 specimens. | 1901-1902 |
| R | <i>Sceloporus undulatus</i> , fence lizard | Perry Co.; Cannelton | 8 May 1901 |
| R | <i>Ophisaurus attenuatus</i> , western ophisaur | Lake Co.; Hammond | 19 Aug. 1902 |
| R | <i>Cnemidophorus sexlineatus</i> , sixlined racerunner | Lake Co.; Pine | 25 July 1902 |
| R | <i>Eumeces fasciatus</i> , five-lined skink | Lawrence Co.; Mitchell | 17 July 1902 |
| R | <i>Eumeces fasciatus</i> , five-lined skink | Perry Co.; Cannelton | 8 May 1901 |
| R | <i>Eumeces fasciatus</i> , five-lined skink | Crawford Co. | 26 June 1902 |
| R | <i>Nerodia sipedon</i> , banded watersnake | Lake Co.; Shelby | pre-1932 |

TABLE 1.—Continued

| Cat. #/Rec. | Name | Locality | Date | Comments |
|-------------|--|---------------------------------------|------------------------|------------------------|
| R | <i>Clonophis kirtlandii</i> , Kirtland's snake | ?Steuben Co.; James Lake | pre-1932 | 2 specimens |
| R | <i>Storeria dekayi</i> , midland brown snake | Dubois Co.; Huntingburg Lake Co. | pre-1932 | |
| R | <i>Storeria dekayi</i> , midland brown snake | LaPorte Co.; Wilders Lake Co.; Shelby | 19 May 1902 | |
| R | <i>Thamnophis radix</i> , plains garter snake | Lake Co.; Hammond | pre-1932 | |
| R | <i>Thamnophis radix</i> , plains garter snake | Starke Co.; Bass Lake | 24 July 1902 | |
| R | <i>Coluber constrictor flaviventris</i> , blue racer | Starke Co.; New Harmony | 24 Aug. 1902 | |
| R | <i>Elaphe obsoleta</i> , black rat snake | Posey Co.; New Harmony | 6 May 1902 | |
| R | <i>Elaphe obsoleta</i> , black rat snake | Posey Co.; New Harmony | May 1901 | |
| R | <i>Elaphe vulpina</i> , fox snake | Starke Co.; Bass Lake | pre-1932 | |
| R | <i>Lampropeltis getulus</i> , black kingsnake | Posey Co. | pre-1932 | |
| R | <i>Lampropeltis triangulum sypbila</i> , red milk snake | Posey Co. | 6 May 1902 | |
| R | <i>Lampropeltis triangulum triangulum</i> , eastern milk snake | Kosciusko Co. | 6 April and 4 May 1901 | 2 specimens |
| R | <i>Opheodrys aestivus</i> , rough green snake | Crawford Co.; Wyandotte | 4 Sept. 1902 | |
| R | <i>Opheodrys aestivus</i> , rough green snake | Crawford Co. | pre-1932 | |
| R | <i>Diadophis punctatus</i> , ringneck snake | Franklin Co.; Laurel | 16 May 1902 | |
| R | <i>Diadophis punctatus</i> , ringneck snake | Lawrence Co. | 21 May 1901 | |
| R | <i>Carphophis amoenus</i> , worm snake | Crawford Co.; Wayndotte | pre-1932 | |
| R | <i>Carphophis amoenus</i> , worm snake | Posey Co. | pre-1932 | |
| R | <i>Heterodon platyrhinos</i> , eastern hognose snake | Lake Co.; Pine | 25 July 1902 | |
| R | <i>Heterodon platyrhinos</i> , eastern hognose snake | Posey Co.; New Harmony | 4 May 1901 | |
| R | <i>Heterodon platyrhinos</i> , eastern hognose snake | Rush Co.; Manilla | pre-1932 | 2 headed; S. C. Peck |
| R | <i>Heterodon platyrhinos</i> , eastern hognose snake | Morgan Co.; near Martinsville | 22 Sept. 1925 | Mrs. Kramer, Indpls. |
| R | <i>Sistrurus catenatus</i> , eastern massasauga | LaPorte Co.; LaPorte | pre-1932 | |
| 71.8.2 | <i>Gavia immer</i> , common loon | Boone Co. | pre-1932 | |
| 71.8.3 | <i>Gavia immer</i> , common loon | Brown Co. | pre-1932 | |
| 71.8.4 | <i>Gavia immer</i> , common loon | Brown Co. | pre-1932 | |
| 71.8.5 | <i>Gavia immer</i> , common loon | Marion Co.; Broad Ripple | 1902 | M; W. D. Cost, Indpls. |
| R | <i>Gavia immer</i> , common loon | Marion Co.; Broad Ripple | 1902 | M; W. D. Cost, Indpls. |

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|----------|---|-------------------------------|--------------|---|
| 71.8.15 | <i>Podilymbus podiceps</i> , pied-billed grebe | Boone Co. | pre-1932 | M |
| 71.8.10 | <i>Podiceps auritus</i> , horned grebe | Starke Co.; Bass Lake | 27 Apr. 1903 | M; Frank Kelley |
| R | <i>Podiceps auritus</i> , horned grebe | Starke Co.; Bass Lake | 27 Apr. 1903 | M; Frank Kelley |
| 71.8.24 | <i>Pelecanus erythrorhynchos</i> , American white pelican | Fountain Co.; Attica | 20 Apr. 1896 | head separated (4) |
| 71.8.25 | <i>Pelecanus occidentalis</i> , brown pelican | Marion Co.; near Broad Ripple | 26 Mar. 1907 | M; W.K. Dean |
| 71.8.26 | <i>Phalacrocorax auritus</i> , double-crested cormorant | Hamilton Co. | Oct. 1900 | (4,11,21) M; imm. |
| 71.8.27 | <i>Phalacrocorax auritus</i> , double-crested cormorant | ?Bartholomew Co. | pre-1932 | J.B. Crum |
| 71.8.36 | <i>Botaurus lentiginosus</i> , American bittern | Boone Co. | pre-1932 | M |
| D | <i>Botaurus lentiginosus</i> , American bittern | Boone Co. | pre-1932 | M |
| 71.8.34 | <i>Ixobrychus exilis</i> , least bittern | Boone Co. | pre-1932 | F; dismounted (6) |
| R | <i>Ixobrychus exilis</i> , least bittern | Boone Co. | pre-1932 | M (6) |
| R | <i>Ardea herodias</i> , great blue heron | Brown Co. | 1896 | M and F |
| R | <i>Ardea herodias</i> , great blue heron | Morgan Co.; near Waverly | 1890 | M; Fred Scruggs, Mooresville |
| 71.8.30 | <i>Egretta caerulea</i> , little blue heron | Hamilton Co. | pre-1927 | Prof. Irvin Stanley, 8 March 1927 |
| R | <i>Egretta caerulea</i> , little blue heron | Putman Co.; near Bainbridge | pre-1932 | M; John Michaels |
| R | <i>Butorides striatus</i> , green-backed heron | Boone Co. | pre-1932 | two M, one F |
| D | <i>Nycticorax nycticorax</i> , black-crowned night-heron | Boone Co. | pre-1932 | M; imm. |
| 71.8.33 | <i>Nycticorax violaceus</i> , yellow-crowned night-heron | ?Boone Co. | 1927 | written on base: "mounted by Elmer S. Pratt, Lebanon, Ind. 1927" |
| 71.8.40 | <i>Cygnus columbianus</i> , tundra swan | Netwon Co.; near Moracco | 14 Oct. 1897 | M (6) |
| 71.8.52 | <i>Chen caerulescens</i> , snow goose | Porter Co. | 23 Mar. 1898 | F; barred pattern |
| 71.8.41 | <i>Branta canadensis</i> , Canada goose | Porter Co. | 12 Apr. 1898 | M |
| R | <i>Branta canadensis</i> , Canada goose | Porter Co. | 12 Apr. 1898 | F |
| 71.8.102 | <i>Aix sponsa</i> , wood duck | Boone Co. | pre-1932 | M |
| D | <i>Aix sponsa</i> , wood duck | Boone Co. | pre-1932 | F |
| R | <i>Anas platyrhynchos</i> , mallard | Boone Co. | pre-1932 | M and F |
| 71.8.78 | <i>Anas acuta</i> , northern pintail | Porter Co. | pre-1932 | M |
| 71.8.79 | <i>Anas acuta</i> , northern pintail | Porter Co. | pre-1932 | F |
| R | <i>Anas discors</i> , blue-winged teal | Boone Co. | pre-1932 | M |
| 71.8.98 | <i>Anas clypeata</i> , northern shoveler | Porter Co. | pre-1932 | F |
| R | <i>Anas clypeata</i> , northern shoveler | Boone Co. | pre-1932 | M |
| 71.8.112 | <i>Aythya collaris</i> , ring-necked duck | Porter Co. | pre-1932 | M |
| 71.8.113 | <i>Aythya collaris</i> , ring-necked duck | Porter Co. | pre-1932 | F |
| R | <i>Aythya affinis</i> , lesser scaup | Boone Co. | pre-1932 | M and F |

TABLE 1.—Continued

| Cat #/Rec. | Name | Locality | Date | Comments |
|------------|---|------------------------------|---------------|---|
| 71.8.129 | <i>Clangula hyemalis</i> , oldsquaw | Boone Co. | pre-1932 | F |
| D and R | <i>Bucephala albeola</i> , bufflehead | Boone Co. | pre-1932 | M (D) and F (R) |
| R | <i>Lophodytes cucullatus</i> , hooded merganser | Boone Co. | pre-1932 | F |
| R | <i>Mergus serrator</i> , red-breasted merganser | Ripley Co. | pre-1932 | M |
| 71.8.637 | <i>Cathartes aura</i> , turkey vulture | Brown Co. | 20 June 1898 | |
| 71.8.168 | <i>Pandion haliaetus</i> , osprey | Putnam Co. | 30 Apr. 1904 | John Michaels |
| R | <i>Pandion haliaetus</i> , osprey | Bartholomew Co. | 20 June 1927 | Don. through A. W. Butler by county hospital (Columbus), where it was taken. M; juv.; John Michaels, Bainbridge |
| 71.8.160 | <i>Haliaeetus leucocephalus</i> , bald eagle | Putnam Co. | pre-1932 | M |
| R | <i>Accipiter cooperi</i> , Cooper's hawk | Boone Co. | pre-1932 | M (R) and F (D) |
| R and D | <i>Buteo jamaicensis</i> , red-tailed hawk | Boone Co. | pre-1932 | two M (one by A.J. Coleman) |
| R | <i>Buteo jamaicensis</i> , red-tailed hawk | Morgan Co. | pre-1932 | F; A.J. Coleman |
| R | <i>Buteo jamaicensis</i> , red-tailed hawk | Morgan Co. | pre-1932 | F and M (R) |
| 71.8.641 | ? <i>Buteo regalis</i> , ferruginous hawk | Brown Co. | 10 May 1894 | |
| and R | <i>Buteo lagopus</i> , rough-legged hawk | Brown Co. | pre-1932 | |
| 71.8.156 | <i>Aquila chrysaetos</i> , golden eagle | Shelby Co.; Jackson township | pre-1932 | O.H. Williams, Flat Rock |
| R | <i>Falco sparverius</i> , American kestrel | Boone Co. | pre-1932 | 2 specimens |
| 71.8.171 | <i>Falco columbarius</i> , merlin | Boone Co. | 3 Mar. 1874 | (6) |
| 71.8.169 | <i>Falco peregrinus</i> , peregrine falcon | (Boone Co.; Slabtown) | (14 May 1896) | listed as M |
| R | <i>Gennaeus nychthemerus</i> , silver pheasant | State Game Reserve, Waveland | pre-1932 | marsh hawk (6) |
| R | <i>Chrysolophus pictus</i> , golden pheasant | State Game Reserve, Waveland | pre-1932 | |
| R | <i>Bonasa umbellus</i> , ruffed grouse | Boone Co. | pre-1932 | M and F |
| 71.8.209 | <i>Tympanuchus cupido</i> , greater prairie-chicken | Fountain Co. | pre-1932 | written on base: " <i>Tympanuchus americanus</i> ," |
| 71.8.211 | <i>Tympanuchus cupido</i> , greater prairie-chicken | Benton Co. | pre-1898 | Fountain County, W.L. Wood" |
| R | <i>Tympanuchus cupido</i> , greater prairie-chicken | Benton Co. | pre-1932 | M (6) F; possibly 71.8.210 |

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|----------|--|---|---------------|---------------------|
| 71.8.219 | <i>Meleagris gallopavo</i> , wild turkey | Dirk, MO | 14 Dec. 1909 | M |
| 71.8.220 | <i>Meleagris gallopavo</i> , wild turkey | Dirk, MO | 14 Dec. 1909 | M |
| R | <i>Colinus virginianus</i> , northern bobwhite | Boone Co. | pre-1932 | "family of quail" |
| 71.8.192 | <i>Colinus virginianus texanus</i> , Texas bobwhite | State Game Reserve, Waveland | 8 Jan. 1920 | M |
| R | <i>Colinus virginianus texanus</i> , Texas bobwhite | State Game Reserve, Waveland | 8 Jan. 1920 | F |
| 71.8.230 | <i>Rallus elegans</i> , king rail | Boone Co. | pre-1932 | |
| R | <i>Rallus elegans</i> , king rail | Boone Co. | pre-1932 | |
| 71.8.233 | <i>Rallus limicola</i> , Virginia rail | Boone Co. | 3-9 May 1895 | M; dismounted |
| R | <i>Rallus limicola</i> , Virginia rail | Marion Co. | Aug. 1898 | F |
| 71.8.235 | <i>Porzana carolina</i> , sora | Henry Co.; Middleton | 2 May 1908 | partial albino |
| 71.8.236 | <i>Porzana carolina</i> , sora | Vigo Co. | pre-1932 | F |
| R | <i>Porzana carolina</i> , sora | Vigo Co. | 19 May 1893 | M |
| 71.8.238 | <i>Gallinula chloropus</i> , common moorhen | Boone Co. | pre-1932 | M |
| 71.8.239 | <i>Gallinula chloropus</i> , common moorhen | Boone Co. | pre-1932 | F |
| 71.8.240 | <i>Gallinula chloropus</i> , common moorhen | Boone Co. | pre-1932 | F |
| 71.8.242 | <i>Fulica americana</i> , American coot | Brown Co. | pre-1932 | M |
| 71.8.243 | <i>Fulica americana</i> , American coot | Boone Co. | pre-1932 | F |
| R | <i>Grius canadensis</i> , sandhill crane | Montgomery Co.; near Darlington | 16 Apr. 1900 | |
| 71.8.263 | <i>Pluvialis dominica</i> , lesser golden plover | Benton Co. | pre-1932 | M |
| R | <i>Pluvialis dominica</i> , lesser golden plover | ?Benton Co. | pre-1932 | two M, two F |
| R | <i>Charadrius semipalmatus</i> , semipalmated plover | Jasper Co. | pre-1932 | M (6) |
| R | <i>Charadrius vociferous</i> , killdeer | Boone Co. | 6 May 1895 | M |
| 71.8.258 | <i>Tringa solitaria</i> , solitary sandpiper | Boone Co. | pre-1932 | M |
| R | <i>Tringa solitaria</i> , solitary sandpiper | Boone Co. | pre-1932 | F |
| R | <i>Actitis macularia</i> , spotted sandpiper | Boone Co. | pre-1932 | M |
| 71.8.248 | <i>Limosa fedoa</i> , marbled godwit | LaPorte Co. | pre-1932 | F |
| R | <i>Limosa fedoa</i> , marbled godwit | LaPorte Co. | pre-1932 | M |
| R | <i>Calidris minutilla</i> , least sandpiper | Vigo Co. | 19 May 1888 | M |
| R | <i>Calidris melanotos</i> , pectoral sandpiper | Vigo Co. | 21 Apr. 1888 | M and F |
| R | <i>Gallinago gallinago</i> , common snipe | Monroe Co. | 25 Mar. 1886 | M |
| R | <i>Scelopax minor</i> , American woodcock | Boone Co. | pre-1932 | F |
| 71.8.262 | <i>Phalaropus tricolor</i> , Wilson's phalarope | (Boone Co.; Lebanon) | (9 May 1889) | M (also F rec.) (6) |
| 71.8.261 | <i>Phalaropus lobatus</i> , red-necked phalarope | (Boone Co.) | (7 June 1889) | M (6,21) |
| R | <i>Phalaropus lobatus</i> , red-necked phalarope | (Boone Co.) | (7 June 1889) | F (6,21) |
| R | <i>Phalaropus fulicarius</i> , red phalarope | Daviess Co. | 21 Sept. 1907 | F |
| R | <i>Larus delawarensis</i> , ring-billed gull | Boone Co. | pre-1932 | F |
| 71.8.272 | <i>Larus argentatus</i> , herring gull | ?Marion Co.; White R., near Belt railroad | Feb. 1899 | J.J. Kramer |

TABLE 1.—Continued

| Cat #/Rec. | Name | Locality | Date | Comments |
|------------|---|---|--------------|---------------------------------------|
| 71.8.279 | <i>Uria lomvia</i> , thick-billed murre | Marion Co. | 13 Dec. 1896 | (6,21) |
| R | <i>Zenaidra macroura</i> , mourning dove | Boone Co. | pre-1932 | M |
| 71.8.286 | <i>Ectopistes migratorius</i> , passenger pigeon | Wayne Co. | 1869 | Hon. Walter S. Ratliff, Richmond (13) |
| R | <i>Coccyzus erythrophthalmus</i> , black-billed cuckoo | Boone Co. | pre-1932 | M |
| 71.8.290 | <i>Coccyzus americanus</i> , yellow-billed cuckoo | Boone Co. | pre-1932 | M |
| R | <i>Coccyzus americanus</i> , yellow-billed cuckoo | Boone Co. | pre-1932 | F |
| 71.8.292 | <i>Tyto alba</i> , common barn owl | Marion Co. | 20 Mar. 1896 | M |
| 71.8.293 | <i>Tyto alba</i> , common barn owl | Boone Co. | pre-1932 | M |
| 71.8.294 | <i>Tyto alba</i> , common barn owl | Boone or Johnson Co. | pre-1932 | M (6) |
| R | <i>Tyto alba</i> , common barn owl | ?Boone Co. | pre-1929 | Venna Leonard, Lebanon 9 Sept. 1929 |
| R | <i>Otus asio</i> , eastern screech owl | Boone Co. | pre-1932 | M and F |
| R | <i>Otus asio</i> , eastern screech owl | Montgomery Co.; State Game Reserve, Waveland | pre-1932 | F |
| 71.8.299 | <i>Bubo virginianus</i> , great horned owl | ?Boone Co. | pre-1932 | |
| R | <i>Bubo virginianus</i> , great horned owl | ?Knox Co. | pre-1932 | M, ? and F; B.F. Johnson, Edwardsport |
| 71.8.309 | <i>Nyctea scandiaca</i> , snowy owl | Mercer/Auglaize, Co., OH; near St. Mary's Reservoir | 1880 | Mather R. Hull |
| R | <i>Nyctea scandiaca</i> , snowy owl | Montgomery Co. | 1 Nov. 1892 | M |
| R | <i>Strix varia</i> , barred owl | Brown Co. | pre-1932 | M |
| 71.8.317 | <i>Asio otus</i> , long-eared owl | Boone Co. | pre-1932 | M |
| R | <i>Asio otus</i> , long-eared owl | Marion Co. | Dec. 1904 | F |
| 71.8.321 | <i>Asio flammeus</i> , short-eared owl | Boone Co. | pre-1932 | F |
| 71.8.680 | <i>Asio flammeus</i> , short-eared owl | Boone Co. | pre-1932 | M |
| 71.8.327 | <i>Aegolius acadicus</i> , northern saw-whet owl | Boone Co. | pre-1932 | M |
| R | <i>Chordeiles minor</i> , common nighthawk | Boone Co. | pre-1932 | M |
| R | <i>Caprimulgus vociferus</i> , whip-poor-will | Boone Co. | pre-1932 | F |
| R | <i>Chaetura pelagica</i> , shimney swift | Boone Co. | pre-1932 | M and F |
| R | <i>Archilochus colubris</i> , ruby-throated hummingbird | Boone Co. | pre-1932 | M and F |
| R | <i>Ceryle alcyon</i> , belted kingfisher | Boone Co. | pre-1932 | M |
| R | <i>Melanerpes erythrocephalus</i> , red-headed woodpecker | Boone Co. | pre-1932 | two M |

| | | | | |
|----------|---|-----------------------------|------------------------------|------------------------------------|
| R | <i>Melanerpes carolinus</i> , red-bellied woodpecker | Boone Co. | pre-1932 | M and F |
| R | <i>Sphyrapicus varius</i> , yellow-bellied sapsucker | Boone Co. | pre-1932 | M and F |
| R | <i>Picoides pubescens</i> , downy woodpecker | Boone Co. | pre-1932 | M and F |
| R | <i>Picoides villosus</i> , hairy woodpecker | Boone Co. | pre-1932 | M and F |
| R | <i>Picoides arcticus</i> , black-backed woodpecker | Porter Co.; Mineral Springs | 21 Nov. 1920 | M; H.L. Stoddard |
| R | <i>Colaptes auratus</i> , northern flicker | Boone Co. | pre-1932 | M and F |
| 71.8.335 | <i>Dryocopus pileatus</i> , pileated woodpecker | Fountain Co. | pre-1898 | F (6) |
| R | <i>Dryocopus pileatus</i> , pileated woodpecker | Fountain Co. | pre-1898 | M (6) |
| R | <i>Contopus virens</i> , eastern wood-pewee | Boone Co. | pre-1932 | M |
| R | <i>Myiarchus crinitus</i> , great crested flycatcher | Boone Co. | pre-1932 | M |
| R | <i>Tyrannus tyrannus</i> , eastern kingbird | Boone Co. | pre-1932 | M |
| R | <i>Eremophila alpestris</i> , horned lark | Vigo Co. | 15 Oct. 1887 | M and F |
| 71.8.342 | <i>Progne subis</i> , purple martin | Boone Co. | pre-1932 | M |
| R | <i>Progne subis</i> , purple martin | Boone Co. | pre-1932 | F |
| R | <i>Stelgidopteryx serripennis</i> , northern rough-winged swallow | Monroe Co. | 11 May 1886 | M |
| 71.8.341 | <i>Hirundo rustica</i> , barn swallow | Boone Co. | pre-1932 | M |
| R | <i>Cyanocitta cristata</i> , blue jay | Boone Co. | pre-1932 | M |
| 71.8.347 | <i>Corvus brachyrhynchos</i> , American crow | Greene Co. | pre-1932 | albino; James Dixon, Switz City |
| 71.8.644 | <i>Corvus brachyrhynchos</i> , American crow | Marion Co. | pre-1932 | F; albino |
| R | <i>Corvus brachyrhynchos</i> , American crow | Boone Co. | pre-1932 | M |
| R | <i>Parus atricapillus</i> , black-capped chickadee | Monroe Co. | 15 May 1886 | M |
| R | <i>Parus bicolor</i> , tufted titmouse | Boone Co. | pre-1932 | M |
| R | <i>Sitta canadensis</i> , red-breasted nuthatch | Monroe Co. | pre-1932 | M and F |
| R | <i>Sitta carolinensis</i> , white-breasted nuthatch | Boone Co. | pre-1932 | M and F |
| R | <i>Certhia americana</i> , brown creeper | Boone Co. | pre-1932 | M and F |
| R | <i>Troglodytes aedon</i> , house wren | Vigo Co. | 28 Apr. 1888 | M |
| 71.8.352 | <i>Troglodytes troglodytes</i> , winter wren | Monroe Co. | pre-1932 | M |
| R | <i>Troglodytes troglodytes</i> , winter wren | Monroe Co. | 26 Mar. 1886 and pre-1932 | two F |
| R | <i>Regulus calendula</i> , ruby-crowned kinglet | Boone Co. | pre-1932 | M |
| R | <i>Polioptila caerulea</i> , blue-gray gnatcatcher | Monroe Co. | 12 Apr. 1886 | M and F |
| 71.8.361 | <i>Sialia sialis</i> , eastern bluebird | Boone Co. | pre-1932 | M |
| R | <i>Sialia sialis</i> , eastern bluebird | Boone Co. | pre-1932 | F |
| R and D | <i>Catharus minimus</i> , gray-cheeked thrush | Monroe Co. | pre-1932 | M (R) and F (D) |
| R | <i>Catharus ustulatus</i> , Swainson's thrush | unlisted | 8 May 1890 | M |
| R | <i>Catharus guttatus</i> , hermit thrush | Boone Co. | pre-1932 | M and F |
| R | <i>Hylocichla mustelina</i> , wood thrush | Boone Co. | pre-1932 | M |

TABLE 1.—Continued

| Cat #/Rec. | Name | Locality | Date | Comments |
|------------|---|----------------------------|--------------|---------------------------------|
| R | <i>Turdus migratorius</i> , American robin | Boone Co. | pre-1932 | M |
| 71.8.354 | <i>Dumetella carolinensis</i> , gray catbird | Boone Co. | pre-1932 | M |
| R | <i>Dumetella carolinensis</i> , gray catbird | Boone Co. | pre-1932 | F |
| R | <i>Mimus polyglottos</i> , northern mockingbird | Boone Co. | pre-1932 | M and F |
| R | <i>Toxostoma rufum</i> , brown thrasher | Boone Co. | pre-1932 | |
| R | <i>Bombycilla garrulus</i> , Bohemian waxwing | ?Porter Co.; Miller's Lake | pre-1932 | M; H.L. Stoddard |
| R | <i>Bombycilla cedrorum</i> , cedar waxwing | Boone Co. | pre-1932 | M and F |
| R | <i>Lanius excubitor</i> , northern shrike | Monroe Co. | pre-1932 | M |
| R | <i>Lanius excubitor</i> , northern shrike | Monroe Co. | pre-1932 | M (21) |
| 71.8.368 | <i>Lanius ludovicianus</i> , loggerhead shrike | unknown | 11 Oct. 1893 | F (21) |
| | | | pre-1932 | Eugene Buchler, 16 Apr. 1932 |
| R | <i>Lanius ludovicianus</i> , loggerhead shrike | Boone Co. | pre-1932 | M and F |
| 71.8.372 | <i>Vireo solitarius</i> , solitary vireo | Boone Co. | pre-1932 | M |
| R | <i>Vireo gilvus</i> , warbling vireo | Boone Co. | pre-1932 | M and F |
| R | <i>Vireo olivaceus</i> , red-eyed vireo | Boone Co. | pre-1932 | M |
| 71.8.374 | <i>Vermivora pinus</i> , blue-winged warbler | Boone Co. | pre-1932 | M and F, same base |
| -.375 | | | | |
| R | <i>Vermivora chrysoptera</i> , golden-winged warbler | Boone Co. | pre-1932 | M |
| R | <i>Vermivora chrysoptera</i> , golden-winged warbler | Franklin Co. | pre-1932 | M |
| D | <i>Vermivora ruficapilla</i> , Nashville warbler | Vigo Co. | 8 May 1888 | M |
| R | <i>Dendroica petechia</i> , yellow warbler | Boone Co. | pre-1932 | M and F |
| R | <i>Dendroica pensylvanica</i> , chestnut-sided warbler | Boone Co. | pre-1932 | M |
| 71.8.378 | <i>Dendroica magnolia</i> , magnolia warbler | Vigo Co. | pre-1932 | M |
| R | <i>Dendroica magnolia</i> , magnolia warbler | Boone Co. | pre-1932 | F |
| R | <i>Dendroica tigrina</i> , Cape May warbler | Boone Co. | pre-1932 | M |
| 71.8.379 | <i>Dendroica caerulescens</i> , black-throated blue warbler | Boone Co. | pre-1932 | M |
| R | <i>Dendroica coronata</i> , yellow-rumped warbler | Boone Co. | pre-1932 | M and F |
| R | <i>Dendroica virens</i> , black-throated green warbler | Boone Co. | pre-1932 | M and F |
| R | <i>Dendroica fusca</i> , Blackburnian warbler | Boone Co. | pre-1932 | M |
| 71.8.383 | <i>Dendroica pinus</i> , pine warbler | Warren Co. | pre-1932 | M; dismounted |
| R | <i>Dendroica discolor</i> , prairie warbler | Boone Co. | pre-1932 | M and F (6) |
| R | <i>Dendroica palmarum</i> , palm warbler | Vigo Co. | 21 Apr. 1888 | M |
| D | <i>Dendroica castanea</i> , bay-breasted warbler | Boone Co. | pre-1932 | M |
| R | <i>Dendroica striata</i> , blackpoll warbler | Boone Co. | pre-1932 | M and F |
| D | <i>Dendroica cerulea</i> , Cerulean warbler | Vigo Co. | 12 May 1888 | M |

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|----------|---|----------------|--------------|--------------------------------|
| R | <i>Mniotilta varia</i> , black-and-white warbler | Boone Co. | pre-1932 | M |
| R | <i>Mniotilta varia</i> , black-and-white warbler | Monroe Co. | 1 May 1886 | F |
| R | <i>Setophaga ruticilla</i> , American redstart | Boone Co. | pre-1932 | M and F |
| R | <i>Helminthos vermivorus</i> , worm-eating warbler | Monroe Co. | 1 May 1886 | M |
| 71.8.385 | <i>Seturus noveboracensis</i> , northern waterthrush | Boone Co. | pre-1932 | M |
| 71.8.386 | <i>Geothlypis trichas</i> , common yellowthroat | Boone Co. | pre-1932 | M |
| 71.8.387 | <i>Geothlypis trichas</i> , common yellowthroat | Boone Co. | pre-1932 | M |
| R | <i>Wilsonia citrina</i> , hooded warbler | Boone Co. | pre-1932 | M |
| 71.8.389 | <i>Wilsonia pusilla</i> , Wilson's warbler | Boone Co. | pre-1898 | M; dismounted head missing (6) |
| D and R | <i>Wilsonia canadensis</i> , Canada warbler | Monroe Co. | pre-1932 | M (D) and F (R) |
| R | <i>Icteria virens</i> , yellow-breasted chat | Boone Co. | pre-1932 | M and F |
| R | <i>Piranga rubra</i> , summer tanager | Vigo Co. | 5 May 1888 | M |
| R | <i>Piranga rubra</i> , summer tanager | Vigo Co. | 29 May 1894 | M; imm. |
| R | <i>Piranga olivacea</i> , scarlet tanager | Boone Co. | pre-1932 | M and F |
| R | <i>Cardinalis cardinalis</i> , northern cardinal | Boone Co. | pre-1932 | M and F |
| 71.8.424 | <i>Pheucticus ludovicianus</i> , rose-breasted grosbeak | Boone Co. | pre-1932 | M |
| R | <i>Pheucticus ludovicianus</i> , rose-breasted grosbeak | Boone Co. | pre-1932 | F |
| 71.8.425 | <i>Spiza americana</i> , dickcissel | Monroe Co. | 5 May 1886 | M |
| R | <i>Pipilo erythrophthalmus</i> , rufus-sided tohee | Boone Co. | pre-1932 | M and F |
| R | <i>Spizella arborea</i> , American tree sparrow | Vigo Co. | 25 Nov. 1889 | F |
| R | <i>Spizella passerina</i> , chipping sparrow | Boone Co. | pre-1932 | M and F |
| R | <i>Spizella pusilla</i> , field sparrow | Marion Co. | 13 Apr. 1886 | F |
| 71.8.434 | <i>Chondestes grammacus</i> , lark sparrow | Monroe Co. | pre-1932 | M |
| R | <i>Passerculus sandwichensis</i> , savannah sparrow | Stärke Co. | pre-1932 | F (6) |
| D | <i>Ammodramus savannarum</i> , grasshopper sparrow | Boone Co. | pre-1932 | M (6) |
| R | <i>Ammodramus leconteii</i> , LeConte's sparrow | Boone Co. | pre-1932 | F |
| 71.8.437 | <i>Passerella iliaca</i> , fox sparrow | Boone Co. | pre-1932 | M |
| R | <i>Passerella iliaca</i> , fox sparrow | Vigo Co. | 30 Mar. 1891 | F |
| R | <i>Melospiza melodia</i> , song sparrow | Monroe Co. | 25 Mar. 1886 | M |
| R | <i>Zonotrichia albicollis</i> , white-throated sparrow | Boone Co. | pre-1932 | M and F |
| R | <i>Zonotrichia leucophrys</i> , white-crowned sparrow | Monroe Co. | 12 Apr. 1886 | F |
| R | <i>Junco hyemalis</i> , dark-eyed junco | Boone Co. | pre-1932 | M and F |
| 71.8.441 | <i>Calcarius pictus</i> , Smith's longspur | Boone Co. | pre-1932 | M |
| 71.8.442 | <i>Calcarius lapponicus</i> , Lapland longspur | Benton Co. | pre-1932 | M |
| 71.8.443 | <i>Plectrophenax nivalis</i> , snow bunting | (Boone Co.) | (pre-1898) | (6) |
| 71.8.444 | <i>Plectrophenax nivalis</i> , snow bunting | St. Joseph Co. | pre-1932 | F |
| D and R | <i>Dolichonyx oryzivorus</i> , bobolink | St. Joseph Co. | pre-1932 | M |
| | | Boone Co. | pre-1932 | M (D) and F (R) |

TABLE 1.—Continued

| Cat #/Rec. | Name | Locality | Date | Comments |
|------------|--|---|---------------------------|---|
| R | <i>Agelaius phoeniceus</i> , red-winged blackbird | Boone Co. | pre-1932 | M and F |
| R | <i>Sturnella magna</i> , eastern meadowlark | Boone Co. | pre-1932 | M and F |
| 71.8.398 | <i>Xanthocephalus xanthocephalus</i> , yellow-headed blackbird | Porter Co. | pre-1898 | M (6) |
| 71.8.407 | <i>Quiscalus quiscula</i> , common grackle | Boone Co. | pre-1932 | F |
| R | <i>Quiscalus quiscula</i> , common grackle | Boone Co. | pre-1932 | M |
| R | <i>Molothrus ater</i> , brown-headed cowbird | Boone Co. | pre-1932 | M and F |
| R | <i>Icterus spurius</i> , orchard oriole | Boone Co. | pre-1932 | M |
| R | <i>Icterus spurius</i> , orchard oriole | Vigo Co. | 25 May 1889 | M (imm.) and F |
| R | <i>Icterus galbula</i> , northern oriole | Boone Co. | pre-1932 | M and F |
| 71.8.403 | <i>Icterus galbula</i> , northern oriole | ?Boone Co. | pre-1932 | F; ?specimen listed above |
| 71.8.446 | <i>Carpodacus purpureus</i> , purple finch | Vigo Co. | 2 Apr. 1889 | M |
| 71.8.433 | <i>Loxia curvirostra</i> , red crossbill | Boone Co. | pre-1932 | F |
| R | <i>Loxia curvirostra</i> , red crossbill | Boone Co. | pre-1932 | M |
| 71.8.430 | <i>Carduelis flammaea</i> , common redpoll | Jasper Co. | pre-1932 | M (6) |
| R | <i>Carduelis pinus</i> , pine siskin | Monroe Co. | 29 Dec. 1886 | M |
| R | <i>Carduelis tristis</i> , American goldfinch | Boone Co. | pre-1932 | M and F |
| 71.8.390 | <i>Passer domesticus</i> , house sparrow | Boone Co. | pre-1932 | F |
| R | <i>Passer domesticus</i> , house sparrow | Boone Co. | pre-1932 | M |
| R | <i>Didelphis virginiana</i> , Virginia opossum | Boone Co. | pre-1932 | M and F |
| D | <i>Scalopus aquaticus</i> , eastern mole | Boone Co. | pre-1932 | M |
| 71.9.105 | <i>Scalopus aquaticus</i> , eastern mole | Putnam Co.; near Bainbridge | pre-1932 | albino; John Michaels |
| D | <i>Scalopus aquaticus</i> , eastern mole | Boone Co. | 9 Feb. 1898 | Frank Parr, Lebanon |
| R | <i>Myotis lucifugus</i> , little brown myotis | Monroe Co.; Coons Cave | pre-1932 | |
| R | <i>Eptesicus fuscus</i> , big brown bat | Marion Co.; Indianapolis | 9 Mar. 1907 | |
| R | <i>Lasiurus cinereus</i> , hoary bat | ?Greene Co. | pre-1932 | W.B. Vangorder, Lyons |
| R | <i>Lasiurus cinereus</i> , hoary bat | Lake Co. | pre-1932 | |
| R | <i>Sciurus carolinensis</i> , gray squirrel | Boone Co.; Lebanon | pre-1932 | M |
| 71.9.115 | <i>Sciurus carolinensis</i> , gray squirrel | unlisted; or Brown Co., near Morgantown | pre-1932; or 27 Sep. 1930 | albino; no data, or W.J. Kesterson, Indpls. |

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|-----------|---|-----------------------------|--------------|---------------------|
| R | <i>Sciurus niger</i> , fox squirrel | Boone Co. | pre-1932 | F |
| R | <i>Tamiasciurus hudsonicus</i> , red squirrel | Boone Co. | pre-1932 | M and F |
| R | <i>Spermophilus tridecemlineatus</i> , thirteen-lined ground squirrel | Benton Co. | pre-1932 | M and F |
| R | <i>Spermophilus franklinii</i> , Franklin's ground squirrel | Benton Co. | pre-1932 | M and F |
| R | <i>Tamias striatus</i> , eastern chipmunk | Boone Co. | 7 Apr. 1897 | M |
| R | <i>Tamias striatus</i> , eastern chipmunk | Boone Co. | pre-1932 | M and F |
| R | <i>Glaucomyx volans</i> , southern flying squirrel | Boone Co. | pre-1932 | M and F |
| R | <i>Microtus pinetorum</i> , woodland vole | Marion Co.; Crow's Nest | 9 May 1897 | two M, one F |
| D | <i>Microtus pennsylvanicus</i> , meadow vole | Boone Co. | pre-1932 | J.H. Lemon, |
| R | <i>Rattus norvegicus</i> , Norway rat (once identified as <i>Rattus rattus</i> , black rat) | Floyd Co.; New Albany | 1904 | New Albany (9) |
| 71.9.122 | <i>Rattus norvegicus</i> , Norway rat | Boone Co. | Mar. 1931 | F |
| D | <i>Rattus norvegicus</i> , Norway rat | Boone Co. | pre-1932 | is one of two |
| 71.9.80, | <i>Rattus norvegicus</i> , Norway rat (once identified as | Boone Co.; or Marion Co., | pre-1932; or | specimens; Boone |
| and R | <i>Nyctomys decoloratus</i> , red rat) | Indianapolis | 1 Apr. 1903 | (F), Marion (M) (9) |
| 71.9.120 | <i>Ondatra zibethicus</i> , muskrat | Marion Co. | pre-1932 | M; albino |
| 71.9.123 | <i>Erethizon dorsatum</i> , porcupine | (Porter Co.) | (pre-1898) | M (3,9,20) |
| R | <i>Erethizon dorsatum</i> , porcupine | (Porter Co.) | (pre-1898) | F (3,9,20) |
| 71.9.128, | <i>Canis</i> cf. <i>C. lupus</i> × <i>C. latrans</i> , gray wolf/coyote hybrid | ?LaPorte Co. | ?pre-1909 | M and F; Hon. |
| and R | (?listed as gray wolf, <i>Canis occidentalis</i>) | | | S. Darrow, |
| R | "wolf" | Hamilton Co. | Apr. 1920 | LaPorte (9) |
| R | <i>Vulpes vulpes</i> , red fox | Marion Co.; Riverside Park | 26 Mar. 1919 | M |
| | | Fish and Game Hatcheries | | |
| | | ?Morgan Co. | | |
| 71.9.129 | <i>Vulpes vulpes</i> , red fox | Jefferson Co.; near Madison | pre-1932 | Jas Moore, Waverly |
| 71.9.132 | <i>Procyon lotor</i> , raccoon | Boone Co. | pre-1932 | M; albino |
| 71.9.138 | <i>Mustela frenata</i> , long-tailed weasel | Boone Co. | pre-1932 | M |
| 71.9.139 | <i>Mustela frenata</i> , long-tailed weasel | Boone Co.; Advance | pre-1932 | F |
| 71.9.143 | <i>Mustela vison</i> , mink | Boone Co. | pre-1932 | |
| 71.9.150 | <i>Lutra canadensis</i> , river otter | (Pike Co.) | (1904) | (9) |

The original listing for turtles consisted of 155 entries, with 125 specimens of Indiana occurring taxa. These provided for 117 Indiana/Illinois records and 80 documented specimens. Fourteen specimens are "stuffed;" the remaining are dried shells. Most of the records for Grand Chain in the Wabash River, Posey County, IN, and for Mount Carmel, Wabash County, Illinois, appear to be from the collecting effort of W.S. Blatchley in 1901-1902 (18, p. 188), then State Geologist in charge of the Museum. Many shells examined did contain crumpled paper with original data. One of the earliest items in the Museum is a rodent-gnawed skull of a large alligator snapping turtle (71.983.115), "said to be from Arkansas," donated in March 1877, and cited by Hay (10). The mounted specimen of eastern mud turtle (*Kinosternon subrubrum*) is among the few specimens from northwestern Indiana and the only confirmed record from Starke County. The record of ornate box turtle (*Terrapene ornata*) Posey County, is noteworthy in that there is only one other record (Davies County) for this prairie species in southwestern Indiana (18). The 1932 catalogue clearly distinguishes between a "terrapine" (*T. ornata*) and the "common box turtle" (*T. carolina*). Given the sparsity of map turtle (*Graptemys geographica*) and sawback turtle (*G. pseudogeographica*) records for southwestern Indiana and the sympatric occurrence of two subspecies (or species) of the latter in Indiana (19), specimens from these earlier populations appear important. There is a series of red-ear turtle (*Pseudemys scripta elegans*) carapaces, displaying several stages of development and variation in markings. The catalogue lists three specimens of "*Pseudemys troosti* (Holbrook)," as understood by Hay (10), from Grand Chain, Posey County, that can be attributed to three melanistic *P. s.elegans* specimens (two "stuffed," 71.7.3.29-.30; one shell, 71.7.3.11). Melanism is more frequent in older male red-ears (7; 18). One specimen from Grand Chain (71.7.1.34) displays a hunch-back condition (kyphosis) and is the largest red-ear that Minton had ever seen (Minton, pers. comm., 28 March 1985). The record of a red-ear turtle from Lake Maxinkuckee, Marshall County, is among the few from north central Indiana. Minton (18) also listed an unconfirmed Marshall County record. The limited number of Indiana hieroglyphic turtles (*Pseudemys concinna hieroglyphica* x. *P. floridana hoyi*) in collections increases the value of the Grand Chain/Mount Carmel specimens at the Museum. Once thought to be extinct in the state (18), there are restricted populations of this turtle in extreme southwestern Indiana (19). Thirteen specimens of turtles are "stuffed" (snapping turtle; mud turtle, Starke County; 2 Blanding's turtles,? Starke County; 2 map turtles; sawback turtle; 3 red-ear turtles (2 melanistic, Grand Chain); 3 hieroglyphic turtles), the last 9 emydids probably from Grand Chain or Mount Carmel.

The mounted bird collection contained 462 specimens representing 301 Indiana records; 90 documented Indiana specimens survive, as well as numerous probable Indiana specimens that have been separated from their data. The American white pelican (*Pelecanus erythrorhynchos*) specimen provides an early spring migration date (20 April 1896, Fountain County; 11). This specimen was previously noted (4). The brown pelican (*Pelecanus occidentalis*; Figure 1A) specimen was documented by Blatchley (4), seen by Mumford in the State Museum at the State House in 1958 (21) and presumed lost (11). This specimen is among the few accidental records of this species from Indiana. Specimens of two Indiana double-crested cormorants (*Phalacrocorax auritus*) are noteworthy, as this once regular migrant is now a rare migrant, though casual in summer and winter. Butler (6) refers to two Boone County least bitterns (*Isobrychus exilis*) in the old State Museum collection; one, dismantled (71.8.34) is present. Butler (6) also refers to a whistling swan (= tundra swan, *Cygnus columbianus*) from Decatur County in the office of the State Geologist. There is only one Museum record for

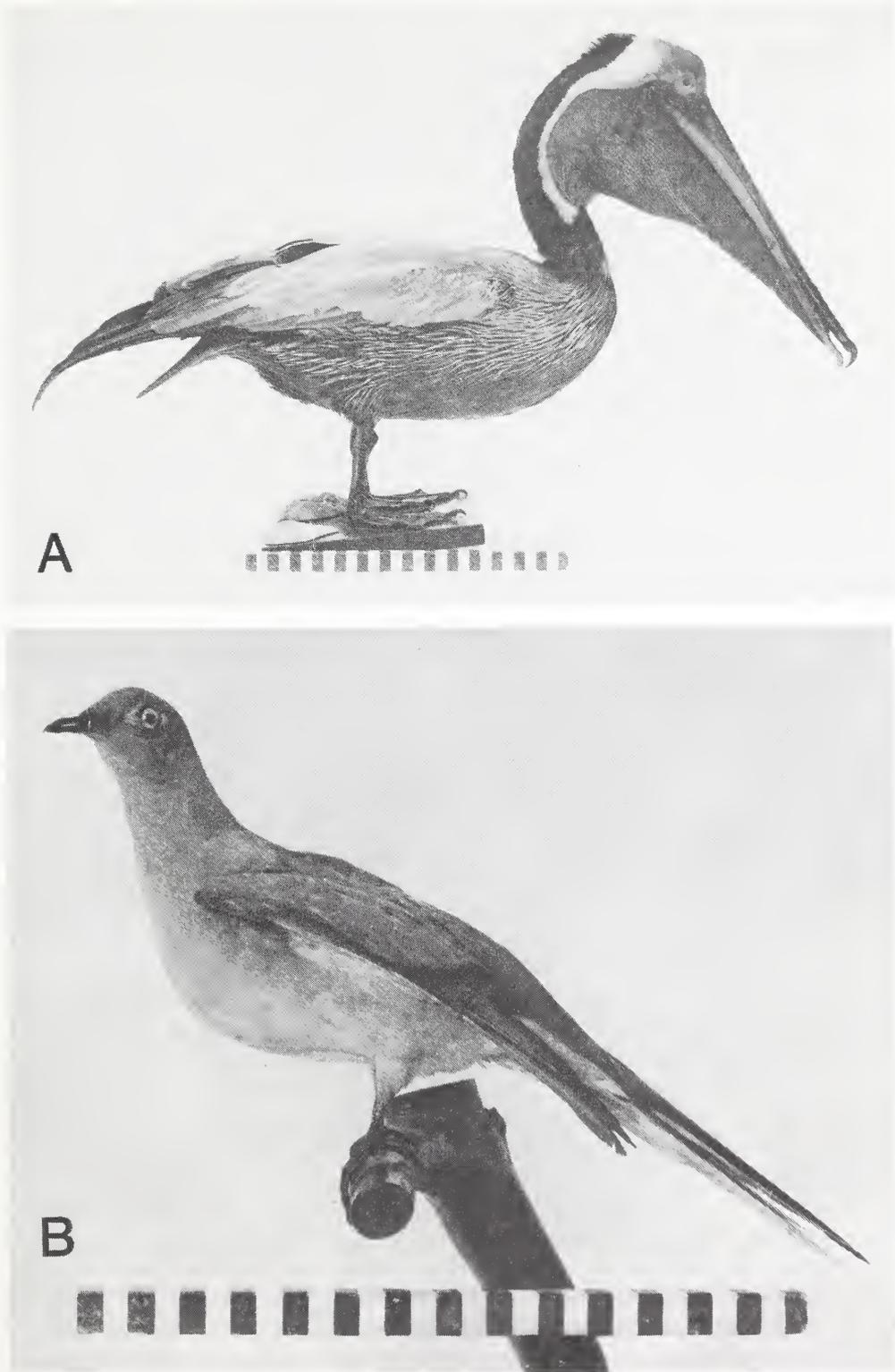


FIGURE 1. A. Brown pelican (*Pelecanus occidentalis*), collected near Broad Ripple, Marion Co., IN, 26 March 1907 (71.8.25).
B. Passenger pigeon (*Ectopistes migratorius*) collected in Wayne Co., IN, 1869 (71.8.286).

this bird (Newton County, near Moracco, killed 14 October 1897) suggesting that the more complete Newton County data is valid. The snow goose (*Chen caerulescens*) in the collection has a barring pattern, that suggests mixing with a domestic goose, perhaps even pen rearing. Snow Geese are not uncommon migrants through Indiana. The old-squaw (*Clangula hyemalis*) specimen, Boone County, represents an uncommon report for central Indiana. Indiana ospreys (*Pandion haliaetus*) were rarely available for mounting. John Michaels (a collector friend of W.S. Blatchley; 5) took the specimen (with limited data) in his home county (Putnam). Michaels also took a bald eagle (*Haliaeetus leucocephalus*), from Putnam County. Mounted bald eagle specimens from Indiana are uncommon. The old catalogue distinguishes two types of rough-legged hawks ("Black Hawk, rough-legged hawk, *Archibuteo ferrugineus*," and "Rusty hawk, Black Hawk, *Archibuteo Sanctijohannis*"). The confusing entry suggests that the ferruginous hawk (*Buteo borealis*), of rare occurrence in Indiana, may be represented by the Brown County listing, since the Boone County female appears to be the black phase of rough-legged hawk (*Buteo lagopus*). The golden eagle (*Aquila chrysaetos*) specimen from Shelby County appears to be a soundly documented, rare Indiana mount. The specimen of the uncommon merlin (*Falco columbarius*), Boone County, had been noted in the old collection by Butler (6).

The mounted peregrine falcon (*Falco peregrinus*), lacking data in the catalogue, appears to be the Boone County (Slabtown, 14 May 1896) specimen noted in the collection by Butler (6). Because the greater prairie-chicken (*Tympanuchus cupido*) is now extirpated in Indiana (last seen 1970, 21), museum specimens of Indiana stock are important. Although Butler (6) noted the Benton County specimen in the collection, the Fountain County bird at the INSM has not previously been recognized. The two Missouri specimens of wild turkey (*Meleagris gallopavo*) are listed because they represent wild stock, unmixed with more recent domestic varieties (24). A number of "experimentally" introduced birds were apparently raised on the State Game Reserve farm at Waveland, including the silver pheasant (*Gennaesus nyctemerus*), golden pheasant (*Chrysolophus pictus*) and the Texas bobwhite (*Colinus virginianus texanus*), the last taxon only represented in the existing collection. Specimens of the king rail (*R. elegans*) and Virginia rail (*Rallus limicola*) are noteworthy, given the sparsity of their records in central Indiana. The sandhill crane (*Grus canadensis*) with record only, was taken in Montgomery County during a rather late spring migration (16 April 1900). Butler (6) noted a semipalmated plover (*Charadrius semipalmatus*) from Jasper County in the old Museum collection; it is not present in the collection today. The marbled godwit mount (*Limosa fedoa*) represents a species that was once abundant in the Kankakee River marshes of northern Indiana (21) but now is a rare to casual migrant. Although the Wilson's phalarope (*Phalaropus tricolor*) specimen lacked any catalogue data, Butler (6) noted that the old INSM specimens were collected near Lebanon in Boone County, 9 May 1889.

Two red-necked phalaropes (*Phalaropus lobatus*) in the old collection were noted by Butler (6) as having been taken in Boone County, (7 June 1889); the Museum catalogue lists only two specimens from Brown County. Inclusion of a date suggests that the Boone County locality is more probable for these rare migrants in Indiana. The red phalarope (*Phalaropus fulicaria*) record (without specimen) for Daviess County is rather far south for this casual fall migrant of the Lake Michigan region in Indiana. The herring gull (*Larus argentatus*) specimen was collected from Marion County (February 1899), at a time when the bird was a winter visitor or resident (21). An extensive account was given by Butler (6) of the occurrence and collection of the thick-billed murre (*Uria lomvia*; Figure 2) in Marion County, (13 December 1896). Mumford and Keller (21) refer to a specimen taken near Pickard (Clinton County) as being "for some time" in the State Geologist's office, Indianapolis, but none

refer to the existence of the Marion County specimen. The catalogue clearly notes Marion County, 13 December 1896 for this rare mount of an accidental visitor to Indiana. Given the exhaustive scrutiny for records of the extinct passenger pigeon (*Ectopistes migratorius*) in Indiana (6; 21), it seems ironic that the INSM mounted specimen from Wayne County, collected 1869 (Figure 1B) donated by Hon. Walter

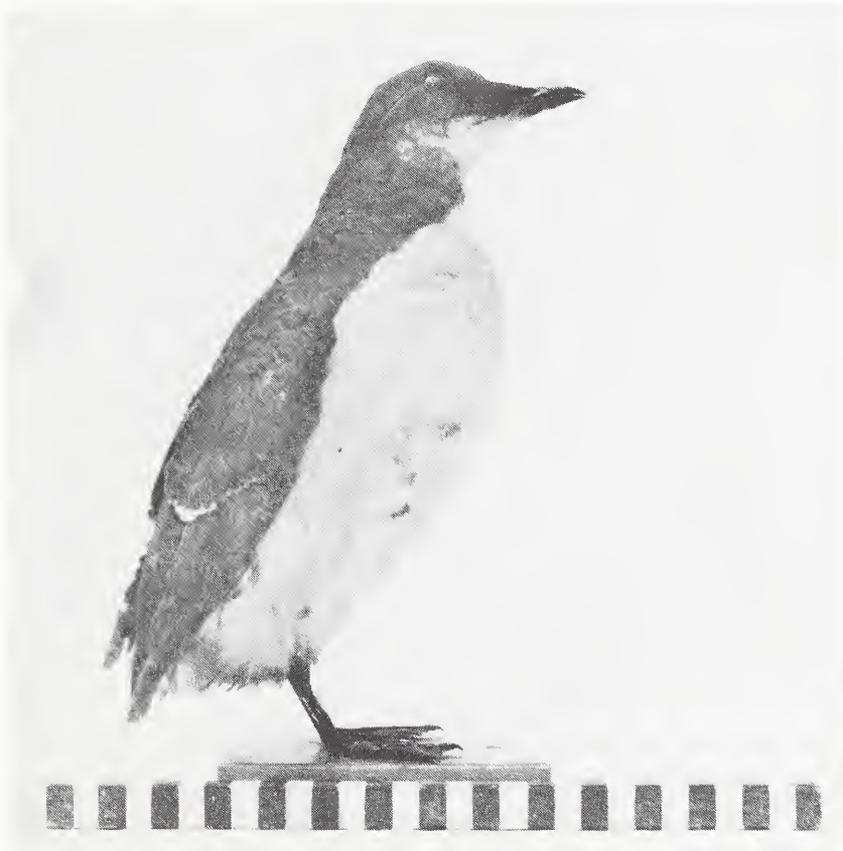


FIGURE 2. Thick-billed murre (*Uria lomvia*), collected in Marion Co., IN, 13 December 1896 (71.8.279).

S. Ratliff, Richmond, IN, 1921 (13) has been overlooked. It is in good condition. Butler (6) records a specimen of barn owl (*Tyto alba*) in the old collection from Franklin (Johnson County) taken December, 1883; by elimination, 71.8.294 is either that specimen, or another from Boone County. This specimen and two others from central Indiana become more important museum specimens as Indiana barn owl populations decline. The black-backed woodpecker (*Picoides arcticus*) was first collected by H.L. Stoddard in Lake and Porter counties in March, 1917, and four other winters through October, 1927 (21). Although not present in the collection, the catalogue shows a specimen collected at Mineral Springs, Porter County, (21 November 1920), donated by Stoddard himself. The record of Bohemian waxwing (*Bombycilla garrulus*), collected at Miller's Lake (?Porter County) by H.L. Stoddard is interesting, since the bird is a rare and irregular winter visitor to Indiana. Mumford and Keller (21) refer to a northern shrike (*Lanius excubitor*), in the old collection. The Museum catalogue confirms its data (Brown County, 11 October 1893), but the specimen is

missing. There is also a Museum record for this rare central Indiana winter resident for Monroe County. Catalogue records exist for a pair of loggerhead shrikes (*Lanius ludovicianus*) for Boone County and there is a specimen in the collection without data, but it is probably the loggerhead shrike listed in the undocumented collection of Dr. Eugene Buehler, donated 16 April 1932, since the catalogue number does not match the Boone County records. The black-throated blue warbler (*Dendroica caerulescens*) specimen, Boone County, is an interesting record for this uncommon migrant. The pine warbler (*Dendroica pinus*) from Warren County was in poor condition and dismantled for storage; this bird is presently a rare migrant and very rare summer resident in northern northern (11). Butler (6) refers to two prairie warblers (*Dendroica discolor*, Boone and Starke counties) in the old collection; the Museum catalogue lists only two Boone County entries, and there are no specimens. The prairie warbler is a rare migrant and locally uncommon summer resident in central Indiana (11). Butler (6) refers to a Boone County specimen of Wilson's warbler (*Wilsonia pusilla*) in the old collection; the head is missing and it has since been dismantled for storage. The bird is presently an uncommon spring and common fall migrant. The lark sparrow (*Chondestes grammacus*) specimen from Monroe County is interesting, since Butler considered it rare at the time when it was probably collected; it is presently an uncommon to rare summer resident in southern Indiana. Butler (6) noted a savannah sparrow (*Passerculus sandwichensis*), Starke County, in the old collection; we have the record at the Museum, but not the specimen. It is a common Indiana migrant. Butler (6) lists a specimen of LeConte's sparrow (*Ammodramus leconteii*), Boone County, in the old collection; there is a record only of this rare Indiana migrant. An undocumented Lapland longspur (*Calcarius lapponicus*) mount may be one of the Boone County pair noted by Butler (6). It is an irregular and uncommon migrant in Indiana. The specimen of Smith's longspur (*Calcarius pictus*), Benton County, is noteworthy, as it is presently an uncommon spring migrant in northwestern Indiana. The yellow-headed blackbird (*Xanthocephalus xanthocephalus*) specimen, Porter County, is one of a pair listed by Butler (6). The bird was a local summer resident around the turn of the century or early 1900's and is now a rare and local resident in Lake and Newton counties. The common redpoll (*Carduelis flammea*) specimen from Jasper County was cited by Butler (6); it is presently an irregular winter visitor.

A number of birds with potentially interesting Indiana occurrence remain undocumented in the 1932 catalogue. They are listed, should data emerge: red-throated loon (*Gavia stellata*), 71.8.13; red-necked grebe (*Podiceps grisegena*) 71.8.14; American swallow-tailed kite (*Elanoides forficatus*) 71.8.140; two bald eagles (*Haliaeetus leucocephalus*) 71.8.161 and 71.8.165; golden eagle (*Aquila chrysaetos*) 71.8.155, coll. 16 Jan 1904 by Jefferson Bugg; several gray partridges (*Perdix perdix*) 71.8.176-.180; two greater prairie chickens (*Tympanuchus cupido*) 71.8.210 female, 71.8.212 male; purple gallinule (*Porphyryula martinica*) 71.8.237; black-billed magpie (*Pica pica*) 71.8.344; common raven (*Corvus corax*) 71.8.346; yellow-throated vireo (*Vireo flavifrons*) 71.8.371; Lincoln's sparrow (*Melospiza lincolni*) 71.8.445; yellow-headed blackbird (*Xanthocephalus xanthocephalus*) 71.8.397; pine grosbeak (*Pinicola enucleator*) 71.8.445. It is interesting that a sora (*Porzana carolina*) 71.8.235 displays partial albinism, the full condition shown by two crows (*Corvus brachyrhynchos*) 71.8.347 and 71.8.644.

The mammal catalogue consists of 95 non-skeletal listings. (Several undocumented and sometimes exotic skulls were of only general interest.) Seventy-three specimens were of Indiana-occurring species; of the 39 documented Indiana specimens, only eleven remain. The mounted specimen of "black rat" (*Rattus rattus*) collected at New Albany (Floyd County) in 1904 (9), has subsequently been reidentified as a Norway

rat (*R. norvegicus*) (20). The whereabouts of the specimen is unknown. Two records of the "red rat" (*Nyctomys decoloratus*) from Boone and Marion counties, cited by Hahn (9) in the old collection, are represented today by one skull (71.9.80). It was removed from a deteriorated mount labeled "red rat", locality unspecified. The skull appears to be that of a Norway rat (*Rattus norvegicus*). Two porcupines (*Erethizon dorsatum*), listed without data, are represented by one specimen. Blatchley (3) referred to two LaPorte County specimens in the State Museum. They are mentioned by Hahn (9), and Mumford (20) noted that only one specimen remained. This may be the only extant non-skeletal specimen of Indiana porcupine. The catalogue lists three wolves, two from LaPorte County and one from Hamilton County; there is only one undocumented mounted "wolf" present in the collection. It appears too large for the coyote (*Canis latrans*), too small for a timber wolf (*Canis lupus*), yet has a pelage not unlike either (Christine Stewart-Marks, pers. comm., April 1987). Hon S. Durrow of LaPorte, who hunted wolves and coyotes, believed that some specimens from northern Indiana were coyote-wolf hybrids (9). He further related that many of the "wolf" reports that he investigated in northern Indiana actually referred to the coyote. It is possible that the Museum specimen represents a coyote-wolf hybrid, and one of the "wolves" donated from LaPorte County by Durrow himself. Lyon (17) believed that 1908 was the latest date for the timber wolf in Indiana; if correct, then the record of Hamilton County "wolf", collected 1920, was probably a coyote. A mounted river otter (*Lutra canadensis*), with a badly distended skin, has no catalogue data. Hahn (9) related that it was a Pike County Specimen, taken in 1904. It may be the only extent non-skeletal specimen of Indiana river otter. A bobcat (*Felis rufus*) mount (71.9.151) is without data, but is noted, should data emerge. Several albino mammals are present: eastern mole (*Scalopus aquaticus*) 71.9.105; muskrat (*Ondatra zibethicus*) 71.9.120; gray squirrel (*Sciurus carolinensis*) 71.9.115; and raccoon (*Procyon lotor*) 71.9.132. One opossum (71.9.103) is of light color, one raccoon (71.9.133) is "red", and a mink (*Mustela vison*, 71.9.142) has light underfur ("cotton mink"). A striped skunk (*Mephitis mephitis*, 71.9.148) has a darkened, poorly developed stripe. Mumford and Whitaker (22) comment on pelage variation in these mammals.

Discussion

The early State Geologists such as Cox, Collett and Thompson (12), who were in charge of the State Museum ("cabinet") greatly expanded the invertebrate fossil, mineral and archaeological collections through survey work. Gorby (8) noted additions to the natural history department by taxidermist J.E. Beasley of Lebanon, Boone County. Though undated records in the 1932 museum catalogue are referred to as "pre-1932", it was during the tenure of Willis S. Blatchley, biologist appointed State Geologist (1894-1911), that the bulk of the vertebrate collections were amassed. Blatchley (1) felt that the Museum should contain "examples of the different objects of Natural History found within the State", and noted that many birds and mammals were rapidly becoming extinct and should be procured while they were available. He related (2) that over 200 mounted birds and mammals and a large collection of bird's eggs had been acquired in the past two years. Most of this mounting was the contracted work of J.E. Beasley of Lebanon, resulting in a preponderance of local, Boone County, specimens. The apparent strategy was to acquire mounts of both sexes of each bird and mammalian species. Fish from his survey of Walnut Creek and tributaries are noted to have been placed in the State Museum (5), but those specimens are not now in the collection. Blatchley accumulated an extensive vertebrate collection, well-furnished in mounted bird and medium-sized mammals, bird eggs, "stuffed" turtles and their dried shells, and a small collection of liquid preserved fishes and herptiles.

Little attention was given to study skins of birds or mammals. It was in those Blatchley years that Butler (6) and Hahn (9) examined birds and mammals in the rapidly growing collection. Subsequent return of control of the State Museum to geologists understandably put a damper on the expansion of systematic biological collections. In the 1920's and 1930's the museum collections were so shuffled from room to room, resulting in lost and damaged specimens and records (25), that the 1936 Lyon found the mammal collection scientifically useless (17). With much to the survey work completed, as amassed in the numerous volumes of the Department of Geology and Natural Resources, the Department was reorganized into the Department of Conservation, and the museum was moved into the basement of the State House (12). Unlike previous decades the Museum apparently undertook little field collection of natural history specimens. Through public donation cultural history artifacts began to accumulate in volume (e.g., 14, 15, 16). The menagerie of historical items, often with poor documentation, continued to accrue in grossly insufficient facilities, and began to resemble a great chamber of oddities and curiosities. The constant struggle for adequate storage, security and record control continued until the collections were relocated in its present facility in 1966. Here, the general collections began to receive more effective management. Mounted and freeze-dried vertebrate collections grew under taxidermists David McLary and David Tolbert, and the donations of Hayden Sharrett and Leonard Boehning. New and old vertebrate collections were curated primarily for their display value until about 1981 when the scientific value of the natural history collections began to be assessed (26). Like early collections at many institutions, specimens frequently have little, if any, documentation, and are often deteriorated. Interestingly, 28% of the mammals, 29% of the birds and 68% of the turtles with Indiana data from the "old collection" are present in the collection today. In contrast all, except one, of the liquid preserved fishes, amphibians and reptiles, except one have been "lost". Fortunately, the existing collection does include such important specimens as an American white pelican, brown pelican, tundra swan, two greater prairie chickens, passenger pigeon, thick-billed murre, porcupine, otter, hieroglyphic turtles and muskellunge. Valuable systematic collections require curation by staff versed in their management, conservation, data recovery and the significance of the information which the specimens provide. Mumford (20) wrote: "A new State Museum has recently been established at Indianapolis. Perhaps this institution will help increase our knowledge of Indiana mammals and other animals". The present and an earlier work (25) is the beginning of that endeavor.

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Literature Cited

1. Blatchley, W.S. 1896. Introductory: The State Museum, p. 21-22, *in*: Indiana Dept. Geol. Nat. Res. 20th Ann. Rept., 1895.
2. Blatchley, W.S. 1897. Introductory: The State Museum, p. 24, *in*: Indiana Dept. Geol. Nat. Res. 21st Ann. Rept., 1896.
3. Blatchley, W.S. 1898. Notes on the fauna of Lake and Porter counties, p. 88-91, *in*: Indiana Dept. Geol. Nat. Res. 22nd Ann. Rept., 1897.
4. Blatchley, W.S. 1907. The Brown Pelican in Indiana. *Auk* 24:337.

5. Blatchley, W.S. 1938. The fishes of Indiana. The Nature Publ. Co., Indianapolis. 121 p.
6. Butler, A.W. 1898. Birds of Indiana, p. 515-1187, *in*: Indiana Dept. Geol. Nat. Res. 22nd Ann. Rept., 1897.
7. Conant, R. 1975. A field guide to the reptiles and amphibians of eastern and central North America. Second ed., Houghton Mifflin Co., Boston. 429 p.
8. Gorby, S.S. 1892. Introductory: The Museum, p. 17, *in*: Indiana Dept. Geol. Nat. Res. 17th Ann. Rept., 1891.
9. Hahn, W.L. 1909. The mammals of Indiana, p. 417-654, 659-663, *in*: Indiana Dept. Geol. and Nat. Res. 33rd Ann. Rept., 1908.
10. Hay, O.P. 1892. The batrachians and the reptiles of Indiana, p. 412-609, *in*: Indiana Dept. Geol. Nat. Res. 17th Ann. Rept., 1891.
11. Keller, C.E., S.A. Keller and T.C. Keller. 1979. Indiana Birds & Their Haunts. Indiana Univ. Press., Bloomington. 214 p.
12. Logan, W.N. 1920. Report of the Division of Geology: Museum, p. 12-13, *in*: Indiana Dept. Conserv. 1st Ann. Rept., 1919.
13. Logan, W.N. 1922. Report of the Division of Geology: Museum, p. 17-20, *in*: Indiana Dept. Conserv. 3rd Ann. Rept., 1922.
14. Logan, W.N. 1925. Report of the Division of Geology: Museum, p. 14-16, *in*: Indiana Dept. Conserv. 6th Ann. Rept., 1924.
15. Logan, W.N. 1926. Report of the Division of Geology: Museum, p. 13-15 *in*: Indiana Dept. Conserv. 7th Ann. Rept., 1925.
16. Logan, W.N. 1927. Report of the Division of Geology: State Museum, p. 18-20, *in*: Indiana Dept. Conserv. 8th Ann. Rept., 1926.
17. Lyon, M.W., Jr. 1936. Mammals of Indiana. American Midl. Natur. 17:1-384.
18. Minton, S.A., Jr. 1972. Amphibians and reptiles of Indiana. Indiana Acad. Sci. Monogr. 3. 346 p.
19. Minton, S.A., Jr., J.C. List and M.J. Lodato. 1983. Recent records and status of amphibians and reptiles in Indiana. Proc. Indiana Acad. Sci. 92:489-498.
20. Mumford, R.E. 1969. Distribution of the mammals of Indiana. Indiana Acad. Sci. Monogr. 1. 114 p.
21. Mumford, R.E. and C.E. Keller. 1984. The Birds of Indiana. Indiana Univ. Press, Bloomington. 376 p.
22. Mumford, R.E. and J.O. Whitaker, Jr. 1982. Mammals of Indiana. Indiana Univ. Press, Bloomington. 537 p.
23. Nelson, J.S. and S.D. Gerking. 1968. Annotated key to the fishes of Indiana. Dept. Zool., Indiana Univ., Bloomington. 84 p.
24. Olsen, S.J. 1968. The osteology of the wild turkey, *Meleagris gallopava*, p. 107-137, Appendix, *in*: Fish, Amphibian and Reptile remains from Archaeological sites. Part 1 Paps. Peabody Mus. Arch. Ethnol. 56(2).
25. Richards, R.L. 1984. The Pleistocene vertebrate collection of the Indiana State Museum with a list of the extinct and extralocal Pleistocene vertebrates of Indiana. Proc. Indiana Acad. Sci. 93:483-504.
26. Richards, R.L. 1986. The Indiana State Museum, Indianapolis, Indiana. Rocks and Minerals, May/June:125-128.
27. Thompson, M. 1889. List of specimens in the State Museum, p. 383-468, *in*: Indiana Dept. Geol. Nat. Hist. 16th Ann. Rept., 1888.

