

## REVISED CHECKLIST OF THE VERTEBRATES OF INDIANA

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**ABSTRACT.** The vertebrate fauna of Indiana recorded since the time of European settlement numbers 208 fish, 38 amphibian, 54 reptilian, 401 avian, and 68 mammalian species. Currently, 19 fish, 9 amphibian, 16 reptilian, 44 avian, and 13 mammalian species within the political boundaries of Indiana require protection due to man's impact. Within the last 200 years, 26 native vertebrate species in Indiana have become extinct or extirpated. These include 6 fish, 1 reptilian, 8 avian, and 11 mammalian species. The present vertebrate fauna of Indiana has 203 fish, 38 amphibian, 53 reptilian, 393 avian, and 57 mammalian species.

**Keywords:** Indiana, fishes, reptiles, amphibians, mammals, birds

The current listing is intended to provide a record of the extant and extirpated vertebrates of Indiana over the last two centuries. The list was first published by Simon et al. (1993) and is updated here. It includes new information and taxonomic changes. This is the first step in the efforts of the Biological Survey Committee of the Indiana Academy of Science to compile a listing of all the known species of biota in Indiana. The taxonomic and nomenclatural sources used for the various taxa include: *Fish*: American Fisheries Society (1991), Burr & Warren (1986), Mayden (1989), and Etnier & Starnes (1993); *Amphibians and reptiles*: Minton (1972, 2001), Collins (1990), and Conant & Collins (1991); *Birds*: American Ornithologists' Union (1998); *Mammals*: Wilson & Reeder (1993) and Mumford & Whitaker (1982).

The following codes were established to facilitate documentation of the vertebrates of the state (Tables 1, 2). The general range in Indiana is indicated as: statewide (I), north (N), south (S), west (W), east (E), central (C), and various combinations of these regions. Relative abundance refers to the general population levels of the species within the state. De-

pending on local and seasonal conditions, the population levels will vary. Relative abundance is broken down into four categories: A = abundant, C = common, O = occasional, and R = rare. Abundance categories vary based on size of the animal. Extirpated species (Ex) are listed along with the estimated date of disappearance. In some cases, this date refers to the last time a voucher record of the species was collected (Whitaker & Gammon 1988). The status of the species refers to the conservation designations of the U.S. Fish and Wildlife Services Office of Endangered Species, Endangered and Threatened Wildlife and Plants (USOFR 1996) and of the Indiana Department of Natural Resources summarized in *Rare Animals of Indiana* (Indiana Department of Natural Resources 1999). Federally endangered species are denoted as FE, threatened as FT, and candidates for federal listing as FC. State endangered species will be represented by three codes: state endangered (SE), state threatened (ST), and special concern in need of further study (SC). An additional designation, exotic (X), is included for accidentally or deliberately released species. One additional code is included for birds (Table 2) to indicate main seasonal occurrence: S = summer

<sup>1</sup> Deceased.

resident, W = winter resident, R = year-round resident, M = migrant, A = accidental, H = hypothetical, and \* = breeder and [\*] = former breeders. The listing of birds has been greatly improved due to the establishment and work of the Indiana Bird Records Committee of the Indiana Audubon Society.

### DISCUSSION

The vertebrate fauna of Indiana recorded from the time of European settlement numbers 203 fish, 38 amphibian, 54 reptilian, 401 avian, and 68 mammalian species. Species first described as new from Indiana include 34 fish, 3 amphibians, 6 reptiles, and 2 mammals. Within the last 200 years, 26 native vertebrate species in Indiana have become extinct or extirpated. Of those lost, 6 species were fish; 1 was a reptile; 8 were birds; and 11 were mammals. Another 18 bird species (13 not including extirpated species) no longer nest in the state. Through accidental or deliberate release, 21 species of fish and 9 additional bird species have become established, although one of these bird species has been recently lost. Currently, 19 fish, 9 amphibian, 16 reptilian, 44 avian, and 13 mammalian species within the political boundaries of Indiana require protection due to man's impact. An additional 6 amphibian, 3 reptilian, 30 avian, and 2 mammalian species are considered hypothetical in occurrence in the state because specimens have not been collected. The present faunal list for Indiana includes 203 fish, 38 amphibian, 53 reptile, 393 bird, and 57 mammal species.

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Table 1.—Checklist of the fish, amphibians, reptiles, and mammals of Indiana. Range is indicated as statewide (I), north (N), south (S), west (W), east (E), central (C), and various combinations. General abundance is listed roughly as abundant (A), common (C), occasional (O), and rare (R). Extirpated species (Ex) are given with approximate date of extirpation. Status is listed as federally endangered (FE), federally threatened (FT), and candidates for federal listing (FC). State designations are endangered (SE), threatened (ST), and special concern (SC). Exotic or introduced species are indicated by "X."

|   | Range  | Relative abundance | Status |
|---|--------|--------------------|--------|
| <b>CLASS OSTEICHTHYES</b>   |        |                    |        |
| Order Petromyzontiformes (lampreys)                                   |        |                    |        |
| Family Petromyzontidae (lamprey)                                      |        |                    |        |
| <i>Ichthyomyzon bdellium</i> (Jordan), Ohio lamprey                   |        |                    |        |
| <i>I. castaneus</i> Girard, chestnut lamprey                          | W, S   | R                  |        |
| <i>I. fossor</i> Reighard & Cummins, northern brook lamprey           | SW     | O                  |        |
| <i>I. unicuspis</i> Hubbs & Trautman, silver lamprey                  | NE     | R                  |        |
| <i>Lampetra aepyptera</i> (Abbott), least brook lamprey               | W, S   | O                  |        |
| <i>L. appendix</i> (DeKay), American brook lamprey                    | SW     | R                  |        |
| <i>Petromyzon marinus</i> Linnaeus, sea lamprey                       | NW     | O                  |        |
| <i>Petromyzon</i> (American brook lamprey)                            | NW     | O                  | X      |
| Order Acipenseriformes (paddlefish, sturgeons)                        |        |                    |        |
| Family Acipenseridae (sturgeon)                                       |        |                    |        |
| <i>Acipenser fulvescens</i> Rafinesque, lake sturgeon                 | W, S   | R                  | SE     |
| <i>Scaphirhynchus platyrhynchus</i> (Rafinesque), shovelnose sturgeon | W, SE  | O                  |        |
| Family Polyodontidae (paddlefish)                                     |        |                    |        |
| <i>Polyodon spathula</i> (Walbaum), paddlefish                        | W, SE  | O                  |        |
| Order Lepisosteiformes (gars)   |        |                    |        |
| Family Lepisosteidae (gars)   |        |                    |        |
| <i>Lepisosteus oculatus</i> Winchell, spotted gar                     | NE, SW | O                  |        |
| <i>L. osseus</i> Linnaeus, longnose gar                               | I      | C                  |        |
| <i>L. platostomus</i> Rafinesque, shortnose gar                       | W, S   | O                  |        |
| Order Amiiformes (bowfin)   |        |                    |        |
| Family Amiidae (bowfin)   |        |                    |        |
| <i>Amia calva</i> Linnaeus, bowfin                                    | N, S   | O                  |        |
| Order Osteoglossiformes (mooneye)                                     |        |                    |        |
| Family Hiodontidae (mooneye)  |        |                    |        |
| <i>Hiodon alosoides</i> (Rafinesque), goldeye                         |        | O                  |        |
| <i>H. tergisus</i> LeSueur, mooneye                                   | S      | O                  |        |
| Order Anguilliformes (eels)   |        |                    |        |
| Family Anguillidae (eel)  | W, S   |                    |        |
| <i>Anguilla rostrata</i> (LeSueur), American eel                      | W, S   | R                  |        |

Table 1.—Continued.

|  | Range  | Relative abundance | Status |
|--|--------|--------------------|--------|
| Order Clupeiformes (herring, shad)                             |        |                    |        |
| Family Clupeidae (herring)                                     |        |                    |        |
| <i>Alosa chrysochloris</i> (Rafinesque), skipjack herring      | W, S   | C                  | X      |
| <i>A. pseudoharengus</i> (Wilson), alewife                     | NW     | A                  |        |
| <i>Dorosoma cepedianum</i> (LeSueur), gizzard shad             | I      | A                  |        |
| <i>D. petenense</i> (Günther), threadfin shad                  | S      | C                  | X      |
| Order Cypriniformes (carps and minnows)                        |        |                    |        |
| Family Cyprinidae (carps and minnows)                          |        |                    |        |
| <i>Campostoma anomalum</i> (Rafinesque), stoneroller           | I      | A                  |        |
| <i>C. oligolepis</i> Hubbs & Greene, largescale stoneroller    | N      | A                  |        |
| <i>Carassius auratus</i> (Linnaeus), goldfish                  | I      | C                  | X      |
| <i>Clinostomus elongatus</i> (Kirtland), reidside dace         | E      | R                  | ST     |
| <i>Couesius plumbeus</i> (Agassiz), lake chub                  | NW     | R                  |        |
| <i>Ctenopharyngodon idella</i> (Valenciennes), grass carp      | NW, C  | O                  | X      |
| <i>Cyprinella lutrensis</i> (Baird & Girard), red shiner       | NW     | O                  | X      |
| <i>C. spiloptera</i> (Cope), spotfin shiner                    | I      | A                  |        |
| <i>C. whipplei</i> Girard, steelcolor shiner                   | C, S   | C                  |        |
| <i>Cyprinus carpio</i> Linnaeus, carp                          | I      | A                  | X      |
| <i>Erycymba buccata</i> Cope, silverjaw minnow                 | I      | C                  |        |
| <i>Erimystax dissimilis</i> (Kirtland), streamline chub        | NW     | R                  |        |
| <i>E. x-punctatus</i> (Hubbs & Crowe), gravel chub             | W      | R                  |        |
| <i>Hybognathus hayi</i> Jordan, cypress minnow                 | SW     | R                  |        |
| <i>H. nuchalis</i> Agassiz, Mississippi silvery minnow         | SC, SW | C                  |        |
| <i>Hybopsis amblops</i> (Rafinesque), bigeye chub              | NW     | C                  |        |
| <i>H. annis</i> (Hubbs & Greene), pallid shiner                | W      | R                  |        |
| <i>Hypophthalmichthys molitrix</i> (Valenciennes), silver carp | SE, SW | R                  | SE     |
| <i>H. nobilis</i> (Richardson), bighead carp                   | SW     | R                  | X      |
| <i>Luxilus chrysocephalus</i> Rafinesque, striped shiner       | I      | O                  | X      |
| <i>L. cornutus</i> (Mitchill), common shiner                   | I      | A                  |        |
| <i>Lythrurus fasciolaris</i> (Gilbert), scarlet shiner         | N      | O                  |        |
| <i>L. fumeus</i> (Evermann), ribbon shiner                     | SE     | C                  |        |
| <i>L. umbratilis</i> (Girard), redfin shiner                   | SW     | R                  |        |
| <i>Macrhybopsis hyostoma</i> (Gilbert), shoal chub             | W, C   | C                  |        |
| <i>M. storeriana</i> (Kirtland), silver chub                   | W, S   | O                  |        |
| <i>Nocomis biguttatus</i> (Kirtland), hornyhead chub           | W      | C                  |        |
| <i>N. micropogon</i> (Cope), river chub                        | N      | C                  |        |
|  | NE, C  | C                  |        |

Table 1.—Continued.

|  | Range     | Relative abundance | Status |
|--|-----------|--------------------|--------|
| <i>Notemigonus crysoleucas</i> (Mitchill), golden shiner           | I         | C                  |        |
| <i>Notropis atherinoides</i> Rafinesque, emerald shiner            | I         | A                  |        |
| <i>N. bleinnius</i> (Girard), river shiner                         | W, S      | C                  |        |
| <i>N. boops</i> Gilbert, bigeye shiner                             | C         | C                  |        |
| <i>N. buchananii</i> Meek, ghost shiner                            | NW, S     | O                  |        |
| <i>N. chalybaeus</i> (Cope), ironcolor shiner                      | NW        | O                  |        |
| <i>N. dorsalis</i> (Agassiz), bigmouth shiner                      | NW        | R                  | SE     |
| <i>N. heterodon</i> (Cope), blackchin shiner                       | N         | R                  |        |
| <i>N. heterolepis</i> Eigenmann & Eigenmann, blacknose shiner      | N         | R                  |        |
| <i>N. hudsonius</i> (Clinton), spottail shiner                     | NW        | A                  |        |
| <i>N. photogenis</i> (Cope), silver shiner                         | C, SE     | O                  |        |
| <i>N. rubellus</i> (Agassiz), rosyface shiner                      | N, C      | C                  |        |
| <i>N. shumardi</i> (Girard), silverband shiner                     | SW        | C                  |        |
| <i>N. stramineus</i> (Girard), sand shiner                         | I         | A                  |        |
| <i>N. texanus</i> (Girard), weed shiner                            | NW        | R                  |        |
| <i>N. volucellus</i> (Cope), mimic shiner                          | E, C, S   | O                  |        |
| <i>N. wickliffi</i> Trautman, channel shiner                       | S         | C                  |        |
| <i>Opsopoeochus emiliae</i> Hay, pugnose minnow                    | N, SW     | R                  |        |
| <i>Phenacobius mirabilis</i> (Girard), suckermouth minnow          | C, S      | C                  |        |
| <i>Phoxinus erythrogaster</i> (Rafinesque), southern redbelly dace | NW, C     | O                  |        |
| <i>Pimephales notatus</i> (Rafinesque), bluntnose minnow           | I         | A                  |        |
| <i>P. promelas</i> Rafinesque, fathead minnow                      | N, SE     | C                  |        |
| <i>P. vigilax</i> (Baird & Girard), bullhead minnow                | W, S      | O                  |        |
| <i>Rhinichthys atratulus</i> (Hermann), blacknose dace             | NW, C, SE | C                  |        |
| <i>R. cataractae</i> (Valenciennes), longnose dace                 | N         | O                  |        |
| <i>Semotilus atromaculatus</i> (Mitchill), creek chub              | I         | A                  |        |
| <i>Scardinius erythrophthalmus</i> (Linnaeus), rudd                | NW        | R                  | X      |
| Family Catostomidae (suckers and buffalo)                          |           |                    |        |
| <i>Carpionotus carpio</i> (Rafinesque), river carpsucker           | W, S      | C                  |        |
| <i>C. cyprinus</i> (LeSueur), quillback                            | I         | C                  |        |
| <i>C. velifer</i> (Rafinesque), highfin carpsucker                 | W, S      | O                  |        |
| <i>Catostomus catostomus</i> (Forster), longnose sucker            | NW        | R                  |        |
| <i>C. commersoni</i> (Lacepède), white sucker                      | I         | A                  |        |
| <i>Cycleptus elongatus</i> (LeSueur), blue sucker                  | C, S      | O                  | FC     |
| <i>Erinnyzon oblongus</i> (Mitchill), creek chubsucker             | NW, C, SW | O                  |        |
| <i>E. suzeita</i> (Lacepède), lake chubsucker                      | N         | O                  |        |
| <i>Hypentelium nigricans</i> (LeSueur), northern hogsucker         | N, C      | C                  |        |

Table 1.—Continued.

|   | Range | Relative abundance | Status |
|---|-------|--------------------|--------|
| <i>Ictiobus bubalus</i> (Rafinesque), smallmouth buffalo  | W, S  | C                  |        |
| <i>I. cyprinellus</i> (Valenciennes), bigmouth buffalo    | W, S  | O                  |        |
| <i>I. niger</i> (Rafinesque), black buffalo               | NW, S | R                  |        |
| <i>Minytrema melanops</i> (Rafinesque), spotted sucker    | NE, C | C                  |        |
| <i>Moxostoma anisurum</i> (Rafinesque), silver redhorse   | N, C  | C                  |        |
| <i>M. carinatum</i> (Cope), river redhorse                | C     | O                  |        |
| <i>M. duquesnei</i> (LeSueur), black redhorse             | C     | C                  |        |
| <i>M. erythrum</i> (Rafinesque), golden redhorse          | I     | A                  |        |
| <i>M. macrolepidotum</i> (LeSueur), shorthead redhorse    | I     | A                  |        |
| <i>M. valenciennesi</i> Jordan, greater redhorse          | N     | R                  | SE     |
| Order Siluriformes (bullhead and catfish)                 |       |                    |        |
| Family Ictaluridae (bullhead and catfish)                 |       |                    |        |
| <i>Ameiurus catus</i> (Linnaeus), white catfish           | S     | O                  | X      |
| <i>A. melas</i> (Rafinesque), black bullhead              | I     | A                  |        |
| <i>A. natalis</i> (LeSueur), yellow bullhead              | I     | A                  |        |
| <i>A. nebulosus</i> (LeSueur), brown bullhead             | S     | C                  |        |
| <i>Ictalurus furcatus</i> (LeSueur), blue catfish         | S     | O                  |        |
| <i>I. punctatus</i> (Rafinesque), channel catfish         | I     | C                  |        |
| <i>Noturus eleutherus</i> Jordan, mountain madtom         | W, C  | O                  |        |
| <i>N. flavus</i> Rafinesque, stonecat                     | I     | C                  |        |
| <i>N. gyrinus</i> (Mitchill), tadpole madtom              | I     | C                  |        |
| <i>N. minorus</i> Jordan, brindled madtom                 | C     | O                  |        |
| <i>N. nocturnus</i> Jordan & Gilbert, freckled madtom     | W     | O                  |        |
| <i>N. stigmatosus</i> Taylor, northern madtom             | WC    | R                  |        |
| <i>Pylodictis olivaris</i> (Rafinesque), flathead catfish | I     | C                  |        |
| Order Salmoniformes (trout, salmon, whitefish)            |       |                    |        |
| Family Esocidae (pikes)                                   |       |                    |        |
| <i>Esox americanus</i> Gmelin, grass pickerel             |       | C                  |        |
| <i>E. lucius</i> Linnaeus, northern pike                  | N     | O                  |        |
| <i>E. masquinongy</i> Mitchell, muskellunge               | S     | R <sup>a</sup>     |        |
| Family Umbridae (mudminnows)                              |       |                    |        |
| <i>Umbra limi</i> (Kirtland), central mudminnow           | N     | A                  |        |

Table 1.—Continued.

|   | Range  | Relative abundance | Status |
|---|--------|--------------------|--------|
| Family Osmeridae (smelt)                                      |        |                    |        |
| <i>Osmerus mordax</i> (Mitchill), rainbow smelt               | NW     | C                  | X      |
| Family Salmonidae (salmon and whitefish)                      |        |                    |        |
| <i>Coregonus artedii</i> LeSueur, cisco or lake herring       | NW     | R                  | SC     |
| <i>C. clupeaformis</i> (Mitchill), lake whitefish             | NW     | C                  | SE     |
| <i>C. hoyi</i> (Milner), bloater                              | NW     | R                  |        |
| <i>C. kiyi</i> (Koelz), kiyi                                  | NW     | R                  |        |
| <i>C. zenithicus</i> (Jordan & Evermann), shortjaw cisco      | NW     | R                  |        |
| <i>Oncorhynchus kisutch</i> (Walbaum), coho salmon            | NW     | C                  | X      |
| <i>O. mykiss</i> (Walbaum), rainbow trout                     | N      | C                  | X      |
| <i>O. ishawytscha</i> (Walbaum), chinook salmon               | NW     | C                  | X      |
| <i>Salmo salar</i> Linnaeus, Atlantic salmon                  | NW     | O                  | X      |
| <i>S. trutta</i> Linnaeus, brown trout                        | N      | C                  | X      |
| <i>Salvelinus fontinalis</i> (Mitchill), brook trout          | NW     | R                  |        |
| <i>S. namaycush</i> (Walbaum), lake trout                     | NW     | O                  |        |
| Order Aphredoderiformes (cavefish, pirate perch, trout-perch) |        |                    |        |
| Family Aphredoderidae (pirate perch)                          |        |                    |        |
| <i>Aphredoderus sayanus</i> (Gilliams), pirate perch          | N, SW  | C                  |        |
| Family Amblyopsidae (cavefish)                                |        |                    |        |
| <i>Amblyopsis spelaea</i> (DeKay), northern cavefish          | S      | R                  | SE, FC |
| <i>Typhlichthys subterraneus</i> Girard, southern cavefish    | S      | R                  | SE     |
| Order Percopsiformes  |        |                    |        |
| Family Percopsidae (trout-perch)                              |        |                    |        |
| <i>Percopsis omiscomaycus</i> (Walbaum), trout-perch          | NW, S  | R                  |        |
| Order Gadiformes (cod)  |        |                    |        |
| Family Lotidae (freshwater cod)                               |        |                    |        |
| <i>Lota lota</i> (Linnaeus), burbot                           | NW, WE | O                  |        |
| Order Cyprinodontiformes (topminnows, silversides)            |        |                    |        |
| Family Fundulidae (topminnows)                                |        |                    |        |
| <i>Fundulus cateauius</i> (Storer), northern studfish         | C      | C                  |        |
| <i>F. diaphanus</i> (LeSueur), banded killifish               | N      | C                  |        |
| <i>F. dispar</i> (Agassiz), northern starhead topminnow       | NW     | C                  |        |
| <i>F. notatus</i> (Rafinesque), blackstripe topminnow         | I      | A                  |        |
| <i>F. olivaceus</i> (Storer), blackspotted topminnow          | W, NE  | R                  |        |
| Family Poeciliidae (live-bearing fishes)                      |        |                    |        |
| <i>Gambusia affinis</i> (Baird & Girard), mosquitofish        | W      | O                  |        |

Table 1.—Continued.

|  | Range | Relative abundance | Status |
|--|-------|--------------------|--------|
| Order Atheriniformes   |       |                    |        |
| Family Atherinidae (silversides)                               |       |                    |        |
| <i>Labidesthes sicculus</i> (Cope), brook silverside           | I     | C                  |        |
| <i>Menidia beryllina</i> (Cope), inland silverside             | S     | R                  | X      |
| Order Mugiliformes   |       |                    |        |
| Family Mugilidae   |       |                    |        |
| <i>Mugil cephalus</i> Linnaeus, striped mullet                 | S     | R                  | X      |
| Order Gasterosteiformes (sticklebacks)                         |       |                    |        |
| Family Gasterosteidae (sticklebacks)                           |       |                    |        |
| <i>Culaea inconstans</i> (Kirtland), brook stickleback         | N, SE | C                  |        |
| <i>Gasterosteus aculeatus</i> Linnaeus, threespine stickleback | NW    | O                  | X      |
| <i>Pungitius pungitius</i> (Linnaeus), ninespine stickleback   | NW    | O                  |        |
| Order Scorpaeniformes  |       |                    |        |
| Family Cottidae (sculpins)                                     |       |                    |        |
| <i>Cottus bairdi</i> Girard, mottled sculpin                   | I     | C                  |        |
| <i>C. caroliniae</i> (Gill), banded sculpin                    | SC    | O                  |        |
| <i>C. cognatus</i> Richardson, slimy sculpin                   | NW    | R                  |        |
| <i>Myoxocephalus thompsoni</i> (Girard), deepwater sculpin     | NW    | R                  |        |
| Order Perciformes (basses, sunfish, perch, darters, gobies)    |       |                    |        |
| Family Moronidae (temperate basses)                            |       |                    |        |
| <i>Morone americana</i> (Gmelin), white perch                  | NW    | R                  | X      |
| <i>M. chrysops</i> (Rafinesque), white bass                    | W     | C                  |        |
| <i>M. mississippiensis</i> Jordan & Eigenmann, yellow bass     | W, S  | O                  |        |
| <i>M. saxatilis</i> (Walbaum), striped bass                    | S     | O                  | X      |
| Family Elasmomatidae (pygmy sunfish)                           |       |                    |        |
| <i>Elassoma zonatum</i> Jordan, banded pygmy sunfish           | SW    | R                  |        |
| Family Centrarchidae (black bass and sunfish)                  |       |                    |        |
| <i>Ambloplites rupestris</i> (Rafinesque), rock bass           | I     | C                  |        |
| <i>Centrarchus macropterus</i> (Lacepède) flier                | SW    | O                  |        |
| <i>Lepomis cyanellus</i> Rafinesque, green sunfish             | I     | A                  |        |
| <i>L. gibbosus</i> (Linnaeus), pumpkinseed                     | I     | C                  |        |
| <i>L. gulosus</i> (Cuvier), warmouth                           | N     | C                  |        |
| <i>L. humilis</i> (Girard), orangespotted sunfish              | N     | O                  |        |
| <i>L. macrochirus</i> Rafinesque, bluegill                     | I     | A                  |        |
| <i>L. megalotis</i> (Rafinesque), longear sunfish              | I     | A                  |        |

Table 1.—Continued.

|  | Range  | Relative abundance | Status |
|--|--------|--------------------|--------|
| <i>L. microlophus</i> (Günther), redear sunfish            | N, S   | C                  |        |
| <i>L. miniatus</i> Jordan, redspotted sunfish              | SW     | R                  |        |
| <i>L. symmetricus</i> Forbes, bantam sunfish               | W      | R                  | ST     |
| <i>Micropterus dolomieu</i> Lacepède, smallmouth bass      | I      | A                  |        |
| <i>M. punctulatus</i> (Rafinesque), spotted bass           | S      | A                  |        |
| <i>M. salmoides</i> (Lacepède), largemouth bass            | I      | A                  |        |
| <i>Pomoxis annularis</i> Rafinesque, white crappie         | I      | C                  |        |
| <i>P. nigromaculatus</i> (LeSueur), black crappie          | I      | C                  |        |
| Family Percidae (perch and darters)                        |        |                    |        |
| <i>Ammocrypta clara</i> Jordan & Meek, western sand darter | NW, S  | O                  |        |
| <i>A. pellucida</i> (Agassiz), eastern sand darter         | C, SW  | O                  | SC, FC |
| <i>Etheostoma asprigete</i> (Forbes), mud darter           | S      | C                  |        |
| <i>E. blennioides</i> Rafinesque, greenside darter         | C, E   | C                  |        |
| <i>E. caeruleum</i> Storer, rainbow darter                 | N, C   | C                  |        |
| <i>E. caurum</i> (Cope), bluebreast darter                 | C      | R                  |        |
| <i>E. chlorosoma</i> (Hay), bluntnose darter               | W      | R                  |        |
| <i>E. exile</i> (Girard), Iowa darter                      | N      | O                  |        |
| <i>E. flabellare</i> Rafinesque, fantail darter            | E, C   | C                  |        |
| <i>E. gracile</i> (Girard), slough darter                  | SW     | O                  |        |
| <i>E. hirtio</i> Jordan & Gilbert, harlequin darter        | S      | R                  |        |
| <i>E. maculatum</i> Kirtland, spotted darter               | C      | R                  | SC     |
| <i>E. microperca</i> Jordan & Gilbert, least darter        | N      | C                  |        |
| <i>E. nigrum</i> Rafinesque, johnny darter                 | I      | A                  |        |
| <i>E. proeliale</i> (Hay), cypress darter                  | SW     | R                  |        |
| <i>E. spectabile</i> (Agassiz), orangethroat darter        | C      | A                  |        |
| <i>E. squamiceps</i> Jordan, spottail darter               | SW     | R                  | SC     |
| <i>E. tippecanoe</i> Jordan & Evermann, Tippecanoe darter  | C      | R                  | SC     |
| <i>E. variatum</i> Kirtland, variegated darter             | SE     | R                  | SC     |
| <i>E. zonale</i> (Cope), banded darter                     | NW, SE | C                  |        |
| <i>Percia flavescens</i> (Mitchill), yellow perch          | N      | C                  |        |
| <i>Percia caprodes</i> (Rafinesque), logperch              | I      | C                  |        |
| <i>P. copelandi</i> (Jordan), channel darter               | C      | R                  | ST     |
| <i>P. evides</i> (Jordan & Copeland), gilt darter          | C      | O                  | SE     |

Table 1.—Continued.

|  | Range | Relative abundance | Status |
|--|-------|--------------------|--------|
| <i>P. maculata</i> (Girard), blackside darter  | I     | C                  |        |
| <i>P. phoxocephala</i> (Nelson), slenderhead darter  | C     | C                  |        |
| <i>P. sciera</i> (Swain), dusky darter   | C     | C                  |        |
| <i>P. shumardi</i> (Girard), river darter  | C, S  | O                  |        |
| <i>P. vigil</i> (Hay), saddleback darter   | SW    | R                  |        |
| <i>Sander canadense</i> (Griffith & Smith), sauger   | W, S  | C                  |        |
| <i>S. vitreus</i> (Mitchill), walleye  | I     | C                  |        |
| Family Sciaenidae (drum)   |       |                    |        |
| <i>Aplodinotus grunniens</i> Rafinesque, freshwater drum   | I     | C                  |        |
| Family Gobiidae  |       |                    |        |
| <i>Neogobius melanostomus</i> (Pallas), round goby   | NW    | A                  | X      |
| Extirpated:  |       |                    |        |
| <i>Atractosteus spatula</i> (Lacepède), alligator gar  | S     | 1976               | Ex     |
| <i>Alosa alabamiae</i> Jordan & Evermann, Alabama shad   | SW    | 1902               | Ex     |
| <i>Notropis anogenus</i> Forbes, pugnose shiner  | NE    | 1945               | Ex     |
| <i>N. ariommus</i> (Cope), popeye shiner   | WC    | 1894               | Ex     |
| <i>Coregonus nigripinnis</i> (Gill), blackfin cisco  | NW    | ?                  | Ex     |
| <i>C. reighardi</i> (Koelz), shortnose cisco   | NW    | 1972               | Ex     |
| <i>Esox masquinongy</i> Mitchill, Great Lakes muskellunge  | N     | 1910               | Ex     |
| <i>Esox masquinongy</i> from the Great Lakes is extirpated, but another Ohio River form of questionable status exists.   |       |                    |        |
| <i>Lagochila lacera</i> Jordan & Brayton, harelip sucker   | C     | 1893               | Ex     |
| <i>Crystallaria asprella</i> Jordan, crystal darter  | S     | 1892-95            | Ex     |
| <i>Percina uranidea</i> (Jordan & Gilbert), stargazing darter  | SW    | 1920               | Ex     |
| Despite past confusion between the two species <i>Percina uranidea</i> and <i>P. vigil</i> , the two species did occur in Indiana (but are now extirpated; C. Gilbert, pers. comm.). Thompson & Cashner (1980) showed two records for <i>P. uranidea</i> from Indiana and a single record for <i>P. vigil</i> (as former name <i>P. ouachitae</i> ) in the 1980 Atlas of North American Freshwater Fishes (Lee et al. 1980). |       |                    |        |
| CLASS AMPHIBIA   |       |                    |        |
| Order Caudata (salamanders)  |       |                    |        |
| Family Cryptobranchidae (hellbenders)  |       |                    |        |
| <i>Cryptobranchus alleganiensis</i> (Daudin), hellbender   | S     | R                  | SE, FC |

Table 1.—Continued.

|   | Range    | Relative abundance | Status |
|---|----------|--------------------|--------|
| Family Proteidae (mudpuppies)                                     |          |                    |        |
| <i>Necturus maculosus</i> (Rafinesque), mudpuppy                  | I        | O                  | SC     |
| Family Ambystomatidae (mole salamanders)                          |          |                    |        |
| <i>Ambystoma barbouri</i> Kraus & Petranka, streamside salamander | SE       | C                  |        |
| <i>A. jeffersonianum</i> (Green), Jefferson's salamander          | SC       | O                  |        |
| <i>A. laterale</i> Hallowell, blue-spotted salamander             | N        | O                  | SC     |
| <i>A. maculatum</i> (Shaw), spotted salamander                    | I        | C                  |        |
| <i>A. opacum</i> (Gravenhorst), marbled salamander                | C, S     | C                  |        |
| <i>A. texanum</i> (Matthes), smallmouth salamander                | I        | A                  |        |
| <i>A. tigrinum</i> (Green), tiger salamander                      | I        | C                  |        |
| Family Salamandridae (newts)                                      |          |                    |        |
| <i>Notophthalmus viridescens</i> (Rafinesque), eastern newt       | I        | O                  |        |
| Family Plethodontidae (lungless salamanders)                      |          |                    |        |
| <i>Aneides aeneus</i> (Cope & Packard), green salamander          | SE       | R                  | SE     |
| <i>Desmognathus fuscus</i> (Green), northern dusky salamander     | SE       | O                  |        |
| <i>Eurycea cirrigera</i> (Green), two-lined salamander            | C, S     | A                  |        |
| <i>E. longicauda</i> (Green), longtail salamander                 | S        | C                  |        |
| <i>E. lucifuga</i> Rafinesque, cave salamander                    | S        | C                  |        |
| <i>Hemidactylium scutatum</i> (Schlegel), four-toed salamander    | N, C     | R                  | ST     |
| <i>Plethodon cinereus</i> (Green), redback salamander             | I        | A                  |        |
| <i>P. dorsalis</i> Cope, zigzag salamander                        | C, S     | C                  |        |
| <i>P. glutinosus</i> (Green), slimy salamander                    | S, C     | C                  |        |
| <i>P. richmondi</i> Netting & Mittleman, ravine salamander        | SE       | O                  |        |
| <i>Pseudotriton ruber</i> (Sonnini), northern red salamander      | SC       | R                  | SE     |
| Family Sirenidae (sirens)   |          |                    |        |
| <i>Siren internedea</i> LeConte, lesser siren                     | W        | O                  |        |
| Order Anura (toads and frogs)                                     |          |                    |        |
| Family Pelobatidae (spadefoot toads)                              |          |                    |        |
| <i>Scaphiopus holbrookii</i> (Harlan), eastern spadefoot          | S        | O                  |        |
| Family Bufonidae (toads)  |          |                    |        |
| <i>Bufo americanus</i> Holbrook, American toad                    | N, C, SE | C                  |        |
| <i>B. fowleri</i> Hinkley, Fowler's toad                          | I        | C                  |        |
| Family Hylidae (tree frogs)                                       |          |                    |        |
| <i>Acris crepitans</i> Baird, cricket frog                        | I        | C                  |        |
| <i>Hyla chrysoscelis</i> Cope, Cope's gray tree frog              | I        | A                  |        |
| <i>H. versicolor</i> LeConte, eastern gray treefrog               | I        | A                  |        |

Table 1.—Continued.

|   | Range    | Relative abundance | Status |
|---|----------|--------------------|--------|
| <i>Pseudacris crucifer</i> Wied. spring peeper                        | I        | C                  |        |
| <i>P. triseriata</i> (Wied), western chorus frog                      | I        | A                  |        |
| Family Ranidae (true frogs)   |          |                    |        |
| <i>Rana areolata</i> Baird & Girard, crawfish frog                    | W        | O                  | ST     |
| <i>R. blairi</i> Mechem et al., plains leopard frog                   | W        | R                  | SC     |
| <i>R. clamitans</i> Latreille, green frog                             | I        | C                  |        |
| <i>R. catesbeiana</i> Shaw, bullfrog                                  | I        | A                  |        |
| <i>R. pipiens</i> Schreber, northern leopard frog                     | N, E     | C                  | SC     |
| <i>R. palustris</i> LeConte, pickerel frog                            | E, C, WC | O                  |        |
| <i>R. utricularia</i> Harlan, southern leopard frog                   | S, C     | C                  |        |
| <i>R. sylvatica</i> LeConte, wood frog                                | I        | O                  |        |
| Hypothetical  |          |                    |        |
| <i>Gyrinophilus porphyriticus</i> (Green), spring salamander          |          |                    |        |
| <i>Pseudacris brachyphona</i> (Cope), mountain chorus frog            |          |                    |        |
| <i>Pseudotriton montanus</i> Baird, mud salamander                    |          |                    |        |
| <i>Gastrophryne carolinensis</i> (Holbrook), eastern narrowmouth toad |          |                    |        |
| <i>Hyla cinerea</i> (Schneider), green treefrog                       |          |                    |        |
| <i>H. avivoca</i> Viosca, bird-voiced treefrog                        |          |                    |        |
| CLASS REPTILIA  |          |                    |        |
| Order Testudines (turtles)  |          |                    |        |
| Family Chelydridae (snapping turtles)                                 |          |                    |        |
| <i>Chelydra serpentina</i> Linnaeus, common snapping turtle           | I        | A                  |        |
| <i>Macrocllemys temminckii</i> (Troost), alligator snapping turtle    | SW       | R                  | SE     |
| Family Kinosternidae (musks and mud turtles)                          |          |                    |        |
| <i>Kinosternon subrubrum</i> (Lacepede), eastern mud turtle           | NW, SW   | R                  | ST     |
| <i>Sternotherus odoratus</i> (Latreille), common musk turtle          | I        | A                  |        |
| Family Emydidae (box and water turtles)                               |          |                    |        |
| <i>Chrysemys picta</i> (Schneider), painted turtle                    | I        | A                  |        |
| <i>Clemmys guttata</i> (Schneider), spotted turtle                    | N        | O                  | ST     |
| <i>Emydoidea blandingii</i> (Holbrook), Blanding's turtle             | N        | O                  | SC     |
| <i>Graptemys geographica</i> (LeSueur), map turtle                    | I        | C                  |        |
| <i>G. pseudogeographica</i> (Gray), false map turtle                  | W, S     | O                  |        |
| <i>G. ouachitensis</i> Cagle, Ouachita map turtle                     |          |                    |        |
| <i>Pseudemys concinna</i> (LeConte), river cooter                     | SW       | 1950               |        |
| <i>Terrapene carolina</i> (Linnaeus), eastern box turtle              | I        | C                  |        |
| <i>T. ornata</i> (Agassiz), ornate box turtle                         | NW, SW   | O                  | SC     |
| <i>Trachemys scripta</i> (Schöepff), red-eared turtle                 | S, W     | C                  |        |

Table 1.—Continued.

|   | Range       | Relative abundance | Status |
|---|-------------|--------------------|--------|
| Family Trionychidae (softshell turtles)                           |             |                    |        |
| <i>Apalone mutica</i> LeSueur, smooth softshell                   | W, S        | O                  |        |
| <i>A. spinifera</i> (LeSueur), spiny softshell                    | I           | C                  |        |
| Order Squamata (lizards and snakes)                               |             |                    |        |
| Family Iguanidae (iguanids)                                       |             |                    |        |
| <i>Sceloporus undulatus</i> Latreille, eastern fence lizard       | S           | C                  |        |
| Family Anguidae (glass lizards)                                   |             |                    |        |
| <i>Ophisaurus attenuatus</i> Cope, slender glass lizard           | NW          | R                  |        |
| Family Teiidae (whiptails)  |             |                    |        |
| <i>Cnemidophorus sexlineatus</i> (Linnaeus), six-lined racerunner | NW, SW      | O                  |        |
| Family Scincidae (skinks)   |             |                    |        |
| <i>Enneceles fasciatus</i> (Linnaeus), five-lined skink           | I           | C                  |        |
| <i>E. laticeps</i> (Schneider), broad-headed skink                | C, S        | O                  |        |
| <i>Scincella lateralis</i> (Say), ground skink                    | S           | O                  |        |
| Family Colubridae (common snakes)                                 |             |                    |        |
| <i>Carphophis amoenus</i> (Say), worm snake                       | S           | O                  |        |
| <i>Cemophora coccinea</i> (Blumenbach), scarlet snake             | S           | R                  | ST     |
| <i>Coluber constrictor</i> Linnaeus, black racer                  | I           | C                  |        |
| <i>Clonophis kirtlandii</i> (Kennicott), Kirtland's snake         | N, C, SE    | O                  | ST, FC |
| <i>Diadophis punctatus</i> (Linnaeus), northern ringneck snake    | S           | O                  |        |
| <i>Elaphe obsoleta</i> (Say), black rat snake                     | I           | C                  |        |
| <i>E. vulpina</i> (Baird & Girard), western fox snake             | NW          | C                  |        |
| <i>Heterodon platirhinos</i> Latreille, eastern hognose snake     | I           | C                  |        |
| <i>Lampropeltis calligaster</i> (Harlan), prairie kingsnake       | W           | O                  |        |
| <i>L. getulus</i> (Linnaeus), common kingsnake                    | S           | O                  |        |
| <i>L. triangulum</i> (Lacépède), eastern milksnake                | I           | C                  |        |
| <i>Nerodia erythrogaster</i> (Forster), northern copperbelly      | SW, NE, SC  | O                  | ST, FC |
| <i>N. rhombifer</i> (Hallowell), diamondback water snake          | SW          | O                  |        |
| <i>N. sipedon</i> (Linnaeus), banded water snake                  | I           | A                  |        |
| <i>Ophedryus aestivus</i> (Linnaeus), rough green snake           | S           | O                  | SC     |
| <i>O. vernalis</i> (Harlan), smooth green snake                   | NW          | R                  | ST     |
| <i>Pituophis catenifer</i> (Blainville), bull snake               | NW, SW      | O                  |        |
| <i>Regina septemvittata</i> (Say), queen snake                    | E, C, WC, N | C                  |        |
| <i>Storeria dekayi</i> (Holbrook), brown snake                    | I           | C                  |        |

Table 1.—Continued.

|   | Range  | Relative abundance | Status |
|---|--------|--------------------|--------|
| <i>S. occipitomauculata</i> (Storer), red-bellied snake       | I      | O                  |        |
| <i>Tantilla coronata</i> (Baird & Girard), crowned snake      | S      | R                  | ST     |
| <i>Thamnophis butleri</i> (Cope), Butler's garter snake       | NE, C  | R                  | ST     |
| <i>T. proximus</i> (Say), western ribbon snake                | NW, SW | O                  | SC     |
| <i>T. radix</i> (Baird & Girard), plains garter snake         | NW     | O                  |        |
| <i>T. sauritus</i> (Linnaeus), eastern ribbon snake           | I      | O                  |        |
| <i>T. sirtalis</i> (Linnaeus), common garter snake            | I      | A                  |        |
| <i>Virginia valeriae</i> Baird & Girard, western earth snake  | S      | O                  |        |
| Family Crotalidae (pit vipers)                                |        |                    |        |
| <i>Agkistrodon contortrix</i> (Linnaeus), northern copperhead | S, WC  | O                  |        |
| <i>A. piscivorus</i> Lacepede, cottonmouth                    | S      | R                  | ST     |
| <i>Crotalus horridus</i> Linnaeus, timber rattlesnake         | S      | R                  | ST     |
| <i>Sistrurus catenatus</i> (Rafinesque), eastern massasauga   | N      | R                  | ST, FC |
| Hypothetical:   |        |                    |        |
| <i>Eumeces anthracinus</i> (Baird), coal skink                |        |                    |        |
| <i>Regina grahami</i> Baird & Girard, Graham's water snake    |        |                    |        |
| <i>Tropidoclonion lineatum</i> (Hallowell), lined snake       |        |                    |        |
| Extirpated:   |        |                    |        |
| <i>Farancia abacura</i> (Holbrook), mud snake                 | X      | 1894               | Ex     |
| CLASS MAMMALIA  |        |                    |        |
| Order Didelphimorphia (American opossums)                     |        |                    |        |
| Family Didelphidae (opossums)                                 |        |                    |        |
| <i>Didelphis virginiana</i> Kerr, opossum                     | I      | A                  |        |
| Order Insectivora (shrews and moles)                          |        |                    |        |
| Family Soricidae (shrews)                                     |        |                    |        |
| <i>Blarina brevicauda</i> (Say), short-tailed shrew           | I      | A                  |        |
| <i>Cryptotis parva</i> (Say), least shrew                     | I      | O                  |        |
| <i>Sorex cinereus</i> Kerr, masked shrew                      | N      | C                  |        |
| <i>S. fumeus</i> Miller, smoky shrew                          | SC     | O                  |        |
| <i>S. hoyi</i> Baird, pygmy shrew                             | SC     | O                  |        |
| <i>S. longirostris</i> Bachman, southeastern shrew            | S      | O                  |        |
| Family Talpidae (moles)                                       |        |                    |        |
| <i>Condylura cristata</i> (Rafinesque), star-nosed mole       | NE     | R                  | SC     |
| <i>Scalopus aquaticus</i> (Linnaeus), eastern mole            | I      | A                  |        |

Table 1.—Continued.

|   | Range | Relative abundance | Status       |
|---|-------|--------------------|--------------|
| Order Chiroptera (bats)   |       |                    |              |
| Family Vespertilionidae (vespertilionid bats)                         |       |                    |              |
| <i>Eptesicus fuscus</i> (Beauvois), big brown bat                     | I     | A                  |              |
| <i>Lastonycteris noctivagans</i> (LeConte), silver-haired bat         | I     | O                  |              |
| <i>Lasiurus borealis</i> (Muller), red bat                            | I     | A                  |              |
| <i>L. cinereus</i> (Beauvois), hoary bat                              | I     | O                  |              |
| <i>Myotis austroriparius</i> (Rhoads), southeastern myotis            | SC    | R                  | SE           |
| <i>M. grisescens</i> (Howell), gray myotis                            | S     | R                  | FE           |
| <i>M. lucifugus</i> (LeConte), little brown myotis                    | I     | C                  |              |
| <i>M. septentrionalis</i> Trouessart, Northern myotis                 | I     | C                  |              |
| <i>M. sodalis</i> Miller & Allen, Indiana myotis                      | I     | O                  | FE           |
| <i>Nycticeius humeralis</i> (Rafinesque), evening bat                 | S     | O                  | FE           |
| <i>Pipistrellus subflavus</i> (Cuvier), eastern pipistrelle           | S     | C                  |              |
| <i>Corynorhinus rafinesquii</i> (Lesson), Rafinesque's big-eared bat  | SC    | R                  | SC           |
| Order Lagomorpha (rabbits, hares, and pikas)                          |       |                    |              |
| Family Leporidae (rabbits and hares)                                  |       |                    |              |
| <i>Sylvilagus aquaticus</i> (Bachman), swamp rabbit                   | SW    | R                  | SE           |
| <i>S. floridanus</i> (Allen), cottontail rabbit                       | I     | A                  |              |
| Order Rodentia (rodents)  |       |                    |              |
| Family Sciuridae (squirrels)  |       |                    |              |
| <i>Glaucomys volans</i> (Linnaeus), southern flying squirrel          | I     | C                  |              |
| <i>Marmota monax</i> (Linnaeus), woodchuck                            | I     | C                  |              |
| <i>Sciurus carolinensis</i> Gmelin, gray squirrel                     | I     | C                  |              |
| <i>S. niger</i> Linnaeus, fox squirrel                                | I     | A                  |              |
| <i>Spermophilus franklinii</i> (Sabine), Franklin's ground squirrel   | NW    | R                  | SE           |
| <i>S. tridecemlineatus</i> (Mitchill), thirteen-lined ground squirrel | N     | C                  |              |
| <i>Tamias striatus</i> (Linnaeus), eastern chipmunk                   | I     | A                  |              |
| <i>Tamiasciurus ludsovicus</i> (Erxleben), red squirrel               | N     | C                  |              |
| Family Geomyidae (pocket gophers)                                     |       |                    |              |
| <i>Geomys bursarius</i> (Shaw), plains pocket gopher                  | NW    | C                  | SC           |
| Family Castoridae (beavers)   |       |                    |              |
| <i>Castor canadensis</i> Kuhl, beaver                                 | I     | C                  | reintroduced |
| The beaver was extirpated by 1900 but was reintroduced.               |       |                    |              |

Table 1.—Continued.

|  | Range | Relative abundance | Status       |
|--|-------|--------------------|--------------|
| Family Muridae (rats, voles, and mice)   |       |                    |              |
| Subfamily Sigmodontinae  |       |                    |              |
| <i>Neotoma magister</i> (Baird), Allegheny woodrat   | SC    | R                  | SE           |
| <i>Peromyscus leucopus</i> (Rafinesque), white-footed mouse  | I     | A                  |              |
| <i>P. maniculatus</i> (Wagner), deer mouse   | I     | C                  |              |
| <i>Reithrodontomys megalotis</i> (Baird), western harvestmouse   | NW    | C                  |              |
| Subfamily Arvicolinae  |       |                    |              |
| <i>Microtus ochrogaster</i> (Wagner), prairie vole   | I     | C                  |              |
| <i>M. pennsylvanicus</i> (Ord), meadow vole  | I     | C                  |              |
| <i>M. pinetorum</i> (LeConte), woodland vole   | I     | O                  |              |
| <i>Ondatra zibethicus</i> (Linnaeus), muskrat  | I     | A                  |              |
| <i>Synaptomys cooperi</i> Baird, southern bog lemming  | I     | O                  |              |
| Subfamily Murinae  |       |                    |              |
| <i>Mus musculus</i> Linnaeus, house mouse  | I     | A                  | X            |
| <i>Rattus norvegicus</i> (Berkenhout), Norway rat  | I     | A                  | X            |
| The black rat, <i>Rattus rattus</i> , was extirpated about 1845 but is not included above because it was not native. |       |                    |              |
| Family Dipodidae (Zapodinae) (jumping mice)  |       |                    |              |
| <i>Zapus hudsonius</i> (Zimmermann), meadow jumping mouse  | I     | O                  |              |
| Order Carnivora (carnivores)   |       |                    |              |
| Family Canidae (canids)  |       |                    |              |
| <i>Canis latrans</i> Say, coyote   | I     | C                  |              |
| <i>Urocyon cinereoargenteus</i> (Schreber), gray fox   | I     | O                  |              |
| <i>Vulpes vulpes</i> (Linnaeus), red fox   | I     | O                  |              |
| Family Procyonidae (raccoons and allies)   |       |                    |              |
| <i>Procyon lotor</i> (Linnaeus), raccoon   | I     | A                  |              |
| Family Mustelidae (weasels, badger, otter)   |       |                    |              |
| <i>Lutra canadensis</i> (Schreber), river otter  | I     | R                  | reintroduced |
| The river otter became extirpated in 1942, but was reintroduced between 1995 and 1999.                               |       |                    |              |
| <i>Mustela frenata</i> Lichtenstein, long-tailed weasel  | I     | O                  |              |
| <i>M. nivalis</i> (Linnaeus), least weasel   | N     | R                  | SC           |
| <i>M. vison</i> Schreber, mink   | I     | O                  |              |
| <i>Taxidea taxus</i> (Schreber), badger  | I     | R                  | ST           |

Table 1.—Continued.

|   | Range      | Relative abundance | Status       |
|---|------------|--------------------|--------------|
| Family Mephitidae (skunks)  |            |                    |              |
| <i>Mephitis mephitis</i> (Schreber), striped skunk                        | I          | C                  |              |
| Family Felidae (cat)  |            |                    |              |
| <i>Lynx rufus</i> (Schreber), bobcat                                      | I          | R                  | SE           |
| Order Artiodactyla  |            |                    |              |
| Family Cervidae (deer)  |            |                    |              |
| <i>Odocoileus virginianus</i> (Zimmermann), white-tailed deer             | I          | A                  | reintroduced |
| The white-tailed deer was extirpated by 1900 but was reintroduced         |            |                    |              |
| Hypothetical  |            |                    |              |
| <i>Myotis leibi</i> (Audubon & Bachman), Leib's bat                       |            |                    |              |
| <i>Reithrodontomys humulis</i> (Audubon & Bachman), eastern harvest mouse |            |                    |              |
| Extirpated  |            |                    |              |
| <i>Bison bison</i> (Linnaeus), bison                                      | Ex (1830)  |                    |              |
| <i>Canis lupus</i> Linnaeus, timber (gray) wolf                           | Ex (1908)  |                    |              |
| <i>C. rufus</i> (Audubon & Bachman), red wolf                             | Ex (1832)  |                    |              |
| <i>Cervus elaphus</i> Linnaeus, elk (wapiti)                              | Ex (1839)  |                    |              |
| <i>Erethizon dorsatum</i> (Linnaeus), porcupine                           | Ex (1918)  |                    |              |
| <i>Felis concolor</i> Linnaeus, mountain lion                             | Ex (1851)  |                    |              |
| <i>Gulo gulo</i> (Linnaeus), wolverine                                    | Ex (1852)  |                    |              |
| <i>Lynx lynx</i> Kerr, lynx   | Ex (1832?) |                    |              |
| <i>Martes pennanti</i> (Erxleben), fisher                                 | Ex (1859)  |                    |              |
| <i>Spilogale putorius</i> (Linnaeus), eastern spotted skunk               | Ex (1920?) |                    |              |
| <i>Ursus americanus</i> Pallas, black bear                                | Ex (1850)  |                    |              |

Table 2.—Checklist of the birds of Indiana. Range is indicated as statewide (I), north (N), south (S), west (W), east (E), and central (C), and various combinations. General abundance is listed roughly as abundant (A), common (C), occasional (O), and rare (R). Seasonal occurrence is given as summer resident (S), winter resident (W), migrant (M), accidental (A), hypothetical (H), and breeder (\*), and former breeder [(\*)]. Status is listed as federally endangered (FE), federally threatened (FT), and candidates for federal listing (FC). State designations are endangered (SE), threatened (ST), and special concern (SC). Exotic or introduced species are indicated by "X." Extirpated species are listed with approximate date of disappearance.

|   | Range | Relative abundance | Season | Status |
|---|-------|--------------------|--------|--------|
| <b>CLASS AVES</b>   |       |                    |        |        |
| Order Gaviiformes (loons)                                       |       |                    |        |        |
| Family Gaviidae (loons)   |       |                    |        |        |
| <i>Gavia adamsii</i> (Gray), yellow-billed loon                 | I     | R                  | A      |        |
| <i>G. immer</i> (Brunnich), common loon                         | I     | C                  | M(*)   |        |
| <i>G. pacifica</i> (Lawrence), pacific loon                     | I     | R                  | A      |        |
| <i>G. stellata</i> (Pontoppidan), red-throated loon             | I     | O                  | M      |        |
| Order Podicipediformes (grebes)                                 |       |                    |        |        |
| Family Podicipedidae (grebes)                                   |       |                    |        |        |
| <i>Aechmophorus occidentalis</i> (Lawrence), western grebe      | I     | R                  | A      |        |
| <i>Podiceps auritus</i> (Linnaeus), horned grebe                | I     | O                  | W(*)   |        |
| <i>P. grisegena</i> (Boddaert), red-necked grebe                | I     | R                  | A      |        |
| <i>P. nigricollis</i> Brehm, eared grebe                        | I     | R                  | A      |        |
| <i>Podilymbus podiceps</i> (Linnaeus), pied-billed grebe        | I     | C                  | R*     |        |
| Order Procellariiformes (tube-nosed swimmers)                   |       |                    |        |        |
| Family Hydrobatidae (storm-petrels)                             |       |                    |        |        |
| <i>Oceanodroma castro</i> (Harcourt), band-rumped storm-petrel  | I     | R                  | A      |        |
| Order Pelecaniformes (totipalmate swimmers)                     |       |                    |        |        |
| Family Sulidae (boobies and gannets)                            |       |                    |        |        |
| <i>Morus bassanus</i> (Linnaeus), northern gannet               | I     | R                  | A      |        |
| Family Pelecanidae (pelicans)                                   |       |                    |        |        |
| <i>Pelecanus erythrorhynchos</i> Gmelin, American white pelican | I     | R                  | A      |        |
| <i>P. occidentalis</i> Linnaeus, brown pelican                  | I     | R                  | A      |        |
| Family Phalacrocoracidae (cormorants)                           |       |                    |        |        |
| <i>Phalacrocorax auritus</i> (Lesson), double-crested cormorant | I     | O                  | M*     |        |
| Family Fregatidae (frigatebirds)                                |       |                    |        |        |
| <i>Fregata magnificens</i> Mathews, magnificent frigatebird     | I     | R                  | A      |        |
| Order Ciconiiformes (herons, ibises, storks, and allies)        |       |                    |        |        |
| Family Ardeidae (bitterns and herons)                           |       |                    |        |        |
| <i>Ardea alba</i> (Linnaeus), great egret                       | I     | O                  | S*     | SC     |
| <i>Ardea herodias</i> Linnaeus, great blue heron                | I     | C                  | R*     |        |
| <i>Botaurus lentiginosus</i> (Rackett), American bittern        | I     | R                  | S*     | SE     |
| <i>Bubulcus ibis</i> (Linnaeus), cattle egret                   | I     | R                  | M*     |        |

Table 2.—Continued.

|  | Range | Relative abundance | Season | Status |
|--|-------|--------------------|--------|--------|
| <i>Butorides virescens</i> (Linnaeus), green heron                 | I     | C                  | S*     |        |
| <i>Egretta caerulea</i> (Linnaeus), little blue heron              | I     | R                  | S*     |        |
| <i>E. rufescens</i> (Gmelin), reddish egret                        | I     | R                  | A      |        |
| <i>E. thula</i> (Molina), snowy egret                              | I     | R                  | A*     |        |
| <i>E. tricolor</i> (Müller), tricolored heron                      | I     | R                  | A      |        |
| <i>Ixobrychus exilis</i> (Gmelin), least bittern                   | I     | R                  | S*     | SE     |
| <i>Nyctanassa violacea</i> (Linnaeus), yellow-crowned night-heron  | S     | R                  | S*     | SE     |
| <i>Nycticorax nycticorax</i> (Linnaeus), black-crowned night-heron | I     | R                  | S*     | SE     |
| Family Threskiornithidae (ibises)                                  |       |                    |        |        |
| <i>Eudocinus albus</i> (Linnaeus), white ibis                      | S     | R                  | A      |        |
| <i>Plegadis chithi</i> (Vieillot), white-faced ibis                | I     | R                  | A      |        |
| <i>P. falcinellus</i> (Linnaeus), glossy ibis                      | I     | R                  | A      |        |
| Family Ciconiidae (storks)   |       |                    |        |        |
| <i>Mycteria americana</i> Linnaeus, wood stork                     | S     | R                  | A      | FE     |
| Family Cathartidae (American vultures)                             |       |                    |        |        |
| <i>Cathartes aura</i> (Linnaeus), turkey vulture                   | I     | C                  | R*     |        |
| <i>Coragyps atratus</i> (Bechstein), black vulture                 | S     | R                  | R*     |        |
| Order Anseriformes (swans, geese, and ducks)                       |       |                    |        |        |
| Family Anatidae (swans, geese and ducks)                           |       |                    |        |        |
| <i>Aix sponsa</i> (Linnaeus), wood duck                            | I     | C                  | R*     |        |
| <i>Anas acuta</i> Linnaeus, northern pintail                       | I     | O                  | M*     |        |
| <i>A. americana</i> Gmelin, American wigeon                        | I     | O                  | M(*)   |        |
| <i>A. clypeata</i> Linnaeus, northern shoveler                     | I     | O                  | M*     |        |
| <i>A. crecca</i> (Linnaeus), green-winged teal                     | I     | O                  | M*     |        |
| <i>A. cyanoptera</i> Vieillot, cinnamon teal                       | I     | R                  | A      |        |
| <i>A. discors</i> Linnaeus, blue-winged teal                       | I     | O                  | S*     |        |
| <i>A. penelope</i> Linnaeus, Eurasian wigeon                       | I     | R                  | A      |        |
| <i>A. platyrhynchos</i> Linnaeus, mallard                          | I     | C                  | R*     |        |
| <i>A. rubripes</i> Brewster, American black duck                   | I     | C                  | R*     |        |
| <i>A. strepera</i> Linnaeus, gadwall                               | I     | O                  | M*     |        |
| <i>Anser albifrons</i> (Scopoli), greater white-fronted goose      | I     | R                  | M      |        |

Table 2.—Continued.

|   | Range | Relative abundance | Season | Status |
|---|-------|--------------------|--------|--------|
| <i>Aythya affinis</i> (Eyton), lesser scaup                   | I     | C                  | W(*)   |        |
| <i>A. americana</i> (Eyton), redhead                          | I     | O                  | M*     |        |
| <i>A. collaris</i> (Donovan), ring-necked duck                | I     | O                  | M*     |        |
| <i>A. marila</i> (Linnaeus), greater scaup                    | N     | O                  | W      |        |
| <i>A. valisineria</i> (Wilson), canvasback                    | I     | O                  | M      |        |
| <i>Branta bernicla</i> (Linnaeus), brant                      | N     | R                  | A      |        |
| <i>B. canadensis</i> (Linnaeus), Canada goose                 | I     | A                  | R*     |        |
| <i>Bucephala albeola</i> (Linnaeus), bufflehead               | I     | O                  | W      |        |
| <i>B. clangula</i> (Linnaeus), common goldeneye               | I     | C                  | W      |        |
| <i>B. islandica</i> (Gmelin), Barrow's goldeneye              | N     | R                  | A      |        |
| <i>Chen caerulescens</i> (Linnaeus), snow goose               | I     | O                  | M      |        |
| <i>C. rossii</i> (Cassin), Ross's goose                       | I     | R                  | A      |        |
| <i>Clangula hyemalis</i> (Linnaeus), long-tailed duck         | N     | O                  | W      |        |
| <i>Cygnus buccinator</i> Richardson, trumpeter swan           | I     | R                  | W(*)   | SE     |
| <i>C. columbianus</i> (Ord), tundra swan                      | I     | O                  | M      |        |
| <i>C. olor</i> (Gmelin), mute swan                            | I     | O                  | R*     | X      |
| <i>Dendrocygna bicolor</i> (Vieillot), fulvous whistling-duck | I     | R                  | A      |        |
| <i>Histrionotus histrionicus</i> (Linnaeus), harlequin duck   | N     | R                  | A      |        |
| <i>Lophodytes cucullatus</i> (Linnaeus), hooded merganser     | I     | O                  | R*     |        |
| <i>Melanitta fusca</i> (Linnaeus), white-winged scoter        | N     | R                  | M      |        |
| <i>M. nigra</i> (Linnaeus), black scoter                      | N     | R                  | M      |        |
| <i>M. perspicillata</i> (Linnaeus), surf scoter               | N     | R                  | M      |        |
| <i>Mergus merganser</i> Linnaeus, common merganser            | I     | O                  | W      |        |
| <i>M. serrator</i> Linnaeus, red-breasted merganser           | I     | O                  | M*     |        |
| <i>Oxyura jamaicensis</i> (Gmelin), ruddy duck                | I     | O                  | M*     |        |
| <i>Somateria spectabilis</i> (Linnaeus), king eider           | N     | R                  | A      |        |
| Order Falconiformes (diurnal birds of prey)                   |       |                    |        |        |
| Family Accipitridae (kites, eagles, hawks, and allies)        |       |                    |        |        |
| <i>Accipiter cooperii</i> (Bonaparte), Cooper's hawk          | I     | O                  | R*     |        |
| <i>A. gentilis</i> (Linnaeus), northern goshawk               | N     | R                  | W      |        |
| <i>A. striatus</i> Vieillot, sharp-shinned hawk               | I     | O                  | R*     | SC     |
| <i>Aquila chrysaetos</i> (Linnaeus), golden eagle             | I     | R                  | M      |        |
| <i>Buteo jamaicensis</i> (Gmelin), red-tailed hawk            | I     | A                  | R*     |        |

Table 2.—Continued.

|   | Range | Relative abundance | Season | Status |
|---|-------|--------------------|--------|--------|
| <i>B. lagopus</i> (Pontoppidan), rough-legged hawk          | I     | O                  | W      |        |
| <i>B. lineatus</i> (Gmelin), red-shouldered hawk            | I     | O                  | R*     | SC     |
| <i>B. playterus</i> (Vieillot), broad-winged hawk           | I     | O                  | S*     | SC     |
| <i>B. regalis</i> (Gray), ferruginous hawk                  | W     | R                  | A      |        |
| <i>B. swainsoni</i> Bonaparte, Swainson's hawk              | W     | R                  | A      |        |
| <i>Circus cyaneus</i> (Linnaeus), northern harrier          | I     | O                  | R*     | SE     |
| <i>Elanoides forficatus</i> (Linnaeus), swallow-tailed kite | I     | R                  | A(*)   |        |
| <i>Elanus leucurus</i> (Vieillot), white-tailed kite        | I     | R                  | A      |        |
| Family Falconidae (falcons)                                 |       |                    |        |        |
| <i>Falco columbarius</i> Linnaeus, merlin                   | I     | R                  | M      |        |
| <i>F. mexicanus</i> Schlegel, prairie falcon                | W     | R                  | A      |        |
| <i>F. peregrinus</i> Tunstall, peregrine falcon             | I     | R                  | R*     | SE     |
| <i>F. rusticolus</i> Linnaeus, gyrfalcon                    | N     | R                  | A      |        |
| <i>F. sparverius</i> Linnaeus, American kestrel             | I     | C                  | R*     |        |
| <i>Haliaeetus leucocephalus</i> (Linnaeus), bald eagle      | I     | R                  | R*     | SE, FT |
| <i>Ictinia mississippiensis</i> (Wilson), Mississippi kite  | I     | R                  | A*     | SC     |
| <i>Pandion haliaetus</i> (Linnaeus), osprey                 | I     | R                  | S*     | SE     |
| Order Galliformes (gallinaceous birds)                      |       |                    |        |        |
| Family Phasianidae (grouse, turkey, and quail)              |       |                    |        |        |
| <i>Bonasa umbellus</i> (Linnaeus), ruffed grouse            | S     | O                  | R*     |        |
| <i>Meleagris gallopavo</i> Linnaeus, wild turkey            | I     | O                  | R*     |        |
| <i>Phasianus colchicus</i> Linnaeus, ring-necked pheasant   | N     | O                  | R*     | X      |
| Family Odontophoridae (quail)                               |       |                    |        |        |
| <i>Colinus virginianus</i> (Linnaeus), northern bobwhite    | I     | C                  | R*     |        |
| Order Gruiformes (cranes, rails, and allies)                |       |                    |        |        |
| Family Rallidae (rails, gallinules, and coots)              |       |                    |        |        |
| <i>Coronicops noveboracensis</i> (Gmelin), yellow rail      | I     | R                  | M      |        |
| <i>Fulica americana</i> (Gmelin), American coot             | I     | O                  | R*     |        |
| <i>Gallinula chloropus</i> (Linnaeus), common moorhen       | I     | R                  | S*     |        |
| <i>Laterallus jamaicensis</i> (Gmelin), black rail          | I     | R                  | A*     | SE     |
| <i>Porphyrio martinica</i> (Linnaeus), purple gallinule     | I     | R                  | A      |        |
| <i>Porzana carolina</i> (Linnaeus), sora                    | I     | O                  | S*     |        |
| <i>Rallus elegans</i> Audubon, king rail                    | I     | R                  | S*     | SE     |
| <i>R. limicola</i> Vieillot, Virginia rail                  | I     | R                  | R*     | SE     |
| Family Gruidae (cranes)                                     |       |                    |        |        |
| <i>Grus canadensis</i> (Linnaeus), sandhill crane           | I     | O                  | M*     | SC     |

Table 2.—Continued.

|   | Range | Relative abundance | Season | Status |
|---|-------|--------------------|--------|--------|
| <i>G. grus</i> (Linnaeus), common crane                       | I     | R                  | A      |        |
| Order Charadriiformes (shorebirds, gulls, auks, and allies)   |       |                    |        |        |
| Family Charadriidae (plovers)                                 |       |                    |        |        |
| <i>Charadrius alexandrinus</i> Linnaeus, snowy plover         | I     | R                  | A      | SE, FE |
| <i>C. melodus</i> Ord, piping plover                          | I     | R                  | A(*)   |        |
| <i>C. semipalmatus</i> Bonaparte, semipalmated plover         | I     | O                  | M      |        |
| <i>C. vociferus</i> Linnaeus, killdeer                        | I     | C                  | R*     |        |
| <i>C. wilsonia</i> Ord, Wilson's plover                       | I     | R                  | A      |        |
| <i>Pluvialis dominica</i> (Müller), American golden-plover    | I     | O                  | M      |        |
| <i>P. squatarola</i> (Linnaeus), black-bellied plover         | I     | O                  | M      |        |
| Family Recurvirostridae (stilts and avocets)                  |       |                    |        |        |
| <i>Himantopus mexicanus</i> (Müller), black-necked stilt      | I     | R                  | A      |        |
| <i>Recurvirostra americana</i> Gmelin, American avocet        | I     | R                  | M(*)   |        |
| Family Scolopacidae (sandpipers, phalaropes, and allies)      |       |                    |        |        |
| <i>Actitis macularia</i> (Linnaeus), spotted sandpiper        | I     | O                  | S*     |        |
| <i>Arenaria interpres</i> (Linnaeus), ruddy turnstone         | I     | R                  | M      |        |
| <i>Bartramia longicauda</i> (Bechstein), upland sandpiper     | I     | R                  | S*     | SE     |
| <i>Calidris acuminata</i> (Horsfield), sharp-tailed sandpiper | I     | R                  | A      |        |
| <i>C. alba</i> (Pallas), sanderling                           | I     | R                  | M      |        |
| <i>C. alpina</i> (Linnaeus), dunlin                           | I     | O                  | M      |        |
| <i>C. bairdii</i> (Coues), Baird's sandpiper                  | I     | R                  | M      |        |
| <i>C. canutus</i> (Linnaeus), red knot                        | I     | R                  | M      |        |
| <i>C. ferruginea</i> (Pontoppidan), curlew sandpiper          | I     | R                  | A      |        |
| <i>C. fuscicollis</i> (Vieillot), white-rumped sandpiper      | I     | R                  | M      |        |
| <i>C. himantopus</i> (Bonaparte), stilt sandpiper             | I     | R                  | M      |        |
| <i>C. maritima</i> (Brünnich), purple sandpiper               | I     | R                  | W      |        |
| <i>C. mauri</i> (Cabanis), western sandpiper                  | I     | O                  | M      |        |
| <i>C. melanotos</i> (Vieillot), pectoral sandpiper            | I     | O                  | M      |        |
| <i>C. minutilla</i> (Vieillot), least sandpiper               | I     | O                  | M      |        |
| <i>C. pusilla</i> (Linnaeus), semipalmated sandpiper          | I     | O                  | M      |        |
| <i>Catoptrophorus semipalmatus</i> (Gmelin), willet           | I     | R                  | M      |        |
| <i>Gallinago delicata</i> (Ord), Wilson's snipe               | I     | O                  | R*     |        |
| <i>Limnodromus griseus</i> (Gmelin), short-billed dowitcher   | I     | O                  | M      |        |
| <i>L. scolopaceus</i> (Say), long-billed dowitcher            | I     | O                  | M      |        |

Table 2.—Continued.

|  | Range | Relative abundance | Season | Status |
|--|-------|--------------------|--------|--------|
| <i>Limosa fedoa</i> (Linnaeus), marbled godwit                     | I     | R                  | A      |        |
| <i>L. haemastica</i> (Linnaeus), Hudsonian godwit                  | I     | R                  | A      |        |
| <i>Numenius phaeopus</i> (Linnaeus), whimbrel                      | I     | R                  | M      |        |
| <i>Phalaropus fulicarius</i> (Linnaeus), red phalarope             | I     | R                  | M      |        |
| <i>P. lobatus</i> (Linnaeus), red-necked phalarope                 | I     | R                  | M      |        |
| <i>P. tricolor</i> (Vieillot), Wilson's phalarope                  | I     | R                  | M(*)   |        |
| <i>Philomachus pugnax</i> (Linnaeus), ruff                         | I     | R                  | A      |        |
| <i>Scolopax minor</i> Gmelin, American woodcock                    | I     | O                  | S*     |        |
| <i>Tringa flavipes</i> (Gmelin), lesser yellowlegs                 | I     | O                  | M      |        |
| <i>T. melanoleuca</i> (Gmelin), greater yellowlegs                 | I     | O                  | M      |        |
| <i>T. solitaria</i> Wilson, solitary sandpiper                     | I     | O                  | M      |        |
| <i>Tryngites subruficollis</i> (Vieillot), buff-breasted sandpiper | I     | R                  | M      |        |
| Family Laridae (jaegers, gulls, terns, and skimmers)               |       |                    |        |        |
| <i>Chlidonias leucopterus</i> (Temminck), white-winged tern        | N     | R                  | A      |        |
| <i>C. niger</i> (Linnaeus), black tern                             | I     | O                  | S*     | SE     |
| <i>Larus argentatus</i> Pontoppidan, herring gull                  | I     | C                  | R*     |        |
| <i>L. atricilla</i> Linnaeus, laughing gull                        | I     | R                  | M      |        |
| <i>L. californicus</i> Lawrence, California gull                   | I     | R                  | A      |        |
| <i>L. canus</i> Linnaeus, mew gull                                 | I     | R                  | A      |        |
| <i>L. delawarensis</i> Ord, ring-billed gull                       | I     | C                  | R*     |        |
| <i>L. fuscus</i> Linnaeus, lesser black-backed gull                | I     | R                  | A      |        |
| <i>L. glaucooides</i> Meyer, Iceland gull                          | I     | R                  | A      |        |
| <i>L. hyperboreus</i> Gunnerus, glaucous gull                      | I     | R                  | W      |        |
| <i>L. marinus</i> Linnaeus, great black-backed gull                | I     | R                  | M      |        |
| <i>L. minutus</i> Pallas, little gull                              | I     | R                  | A      |        |
| <i>L. philadelphia</i> (Ord), Bonaparte's gull                     | I     | O                  | M      |        |
| <i>L. pipixcan</i> Wagler, Franklin's gull                         | I     | R                  | M      |        |
| <i>L. ridibundus</i> Linnaeus, black-headed gull                   | I     | R                  | A      |        |
| <i>L. schistisagus</i> Stejneger, slaty-backed gull                | I     | R                  | A      |        |
| <i>L. thayeri</i> Brooks, Thayer's gull                            | I     | R                  | M      |        |
| <i>Rhodostethia rosea</i> (MacGillivray), Ross's gull              | I     | R                  | A      |        |
| <i>Rissa tridactyla</i> (Linnaeus), black-legged kittiwake         | I     | R                  | A      |        |
| <i>Rynchops tiger</i> Linnaeus, black skimmer                      | I     | R                  | A      |        |
| <i>Stercorarius longicaudus</i> Vieillot, long-tailed jaeger       | N     | R                  | M      |        |

Table 2.—Continued.

|  | Range | Relative abundance | Season | Status |
|--|-------|--------------------|--------|--------|
| <i>S. parasiticus</i> (Linnaeus), parasitic jaeger                 | N     | R                  | M      |        |
| <i>S. pomarinus</i> (Temminck), pomarine jaeger                    | N     | R                  | M      |        |
| <i>Sterna anillarum</i> (Lesson), least tern                       | I     | R                  | S*     | SE, FE |
| <i>S. caspia</i> Pallas, Caspian tern                              | I     | O                  | M*     |        |
| <i>S. dougallii</i> Montagu, roseate tern                          | I     | R                  | A      | FE     |
| <i>S. forsteri</i> Nuttall, Forster's tern                         | I     | O                  | M(**)  |        |
| <i>S. fuscata</i> Linnaeus, sooty tern                             | I     | R                  | A      |        |
| <i>S. hirundo</i> Linnaeus, common tern                            | I     | O                  | M(**)  |        |
| <i>S. maxima</i> Boddaert, royal tern                              | I     | R                  | A      |        |
| <i>S. nilotica</i> Gmelin, gull-billed tern                        | I     | R                  | A      |        |
| <i>S. paradisaea</i> Pontoppidan, arctic tern                      | I     | R                  | A      |        |
| <i>Xema sabini</i> (Sabine), Sabine's gull                         | I     | R                  | A      |        |
| Family Alcidae (auks, murres, and puffins)                         |       |                    |        |        |
| <i>Brachyramphus perdix</i> (Pallas), long-billed murrelet         | I     | R                  | A      |        |
| <i>Synthliboramphus antiquus</i> (Gmelin), ancient murrelet        | I     | R                  | A      |        |
| <i>Uria lomvia</i> (Linnaeus), thick-billed murre                  | I     | R                  | A      |        |
| Order Columbiformes (pigeons and doves)                            |       |                    |        |        |
| Family Columbidae (pigeons and doves)                              |       |                    |        |        |
| <i>Columba fasciata</i> Say, band-tailed pigeon                    | I     | R                  | A      |        |
| <i>C. livia</i> Gmelin, rock dove                                  | I     | A                  | R*     | X      |
| <i>Columbina passerina</i> (Linnaeus), common ground-dove          | I     | R                  | A      |        |
| <i>Streptopelia decaocto</i> (Frisvaldsky), Eurasian collared-dove | I     | R                  | R*     | X      |
| <i>Zenaida asiatica</i> (Linnaeus), white-winged dove              | I     | R                  | A      |        |
| <i>Z. macroura</i> (Linnaeus), mourning dove                       | I     | A                  | R*     |        |
| Order Cuculiformes (cuckoos)                                       |       |                    |        |        |
| Family Cuculidae (cuckoos)   |       |                    |        |        |
| <i>Coccyzus americanus</i> (Linnaeus), yellow-billed cuckoo        | I     | O                  | S*     |        |
| <i>C. erythrophthalmus</i> (Wilson), black-billed cuckoo           | I     | O                  | S*     |        |
| <i>Crotophaga sulcirostris</i> Swainson, groove-billed ani         | I     | R                  | A      |        |
| Order Strigiformes (owls)  |       |                    |        |        |
| Family Tytonidae (barn owls)                                       |       |                    |        |        |
| <i>Tyto alba</i> (Scopoli), barn owl                               | I     | R                  | R*     | SE     |
| Family Strigidae (typical owls)                                    |       |                    |        |        |
| <i>Aegolius acadicus</i> (Gmelin), northern saw-whet owl           | I     | R                  | W*     |        |
| <i>Asio flammeus</i> (Pontoppidan), short-eared owl                | I     | R                  | R*     | SE     |
| <i>A. otus</i> (Linnaeus), long-eared owl                          | I     | R                  | R*     |        |
| <i>Athene cucularia</i> (Molina), burrowing owl                    | W     | R                  | A      |        |

Table 2.—Continued.

|   | Range | Relative abundance | Season | Status |
|---|-------|--------------------|--------|--------|
| <i>Bubo virginianus</i> (Gmelin), great horned owl                | I     | C                  | R*     |        |
| <i>Nyctea scandiaca</i> (Linnaeus), snowy owl                     | N     | R                  | W      |        |
| <i>Otus asio</i> (Linnaeus), eastern screech-owl                  | I     | C                  | R*     |        |
| <i>Strix varia</i> Barton, barred owl                             | I     | O                  | R*     |        |
| Order Caprimulgiformes (goatsuckers, oilbirds, and allies)        |       |                    |        |        |
| Family Caprimulgidae (goatsuckers)                                |       |                    |        |        |
| <i>Caprimulgus carolinensis</i> Gmelin, chuck-will's-widow        | S     | R                  | S*     |        |
| <i>C. vociferus</i> Wilson, whip-poor-will                        | I     | C                  | S*     |        |
| <i>Chordeiles minor</i> (Forster), common nighthawk               | I     | O                  | S*     |        |
| Order Apodiformes (swifts and hummingbirds)                       |       |                    |        |        |
| Family Apodidae (swifts)  |       |                    |        |        |
| <i>Chaetura pelagica</i> (Linnaeus), chimney swift                | I     | A                  | S*     |        |
| Family Trochilidae (hummingbirds)                                 |       |                    |        |        |
| <i>Archilochus colubris</i> (Linnaeus), ruby-throated hummingbird | I     | C                  | S*     |        |
| <i>Selasphorus rufus</i> (Gmelin), rufous hummingbird             | I     | R                  | A      |        |
| Order Coraciiformes (todies, motmots, and kingfishers)            |       |                    |        |        |
| Family Alcedinidae (kingfishers)                                  |       |                    |        |        |
| <i>Ceryle alcyon</i> (Linnaeus), belted kingfisher                | I     | O                  | R*     |        |
| Order Piciformes (woodpeckers and allies)                         |       |                    |        |        |
| Family Picidae (woodpeckers)                                      |       |                    |        |        |
| <i>Colaptes auratus</i> (Linnaeus), northern flicker              | I     | C                  | R*     |        |
| <i>Dryocopus pileatus</i> (Linnaeus), pileated woodpecker         | I     | O                  | R*     |        |
| <i>Melanerpes carolinus</i> (Linnaeus), red-bellied woodpecker    | I     | C                  | R*     |        |
| <i>M. erythrocephalus</i> (Linnaeus), red-headed woodpecker       | I     | O                  | R*     |        |
| <i>Picoides arcticus</i> (Swainson), black-backed woodpecker      | N     | R                  | A      |        |
| <i>P. pubescens</i> (Linnaeus), downy woodpecker                  | I     | C                  | R*     |        |
| <i>P. villosus</i> (Linnaeus), hairy woodpecker                   | I     | C                  | R*     |        |
| <i>Sphyrapicus varius</i> (Linnaeus), yellow-bellied sapsucker    | I     | R                  | M*     |        |
| Order Passeriformes (passerine birds)                             |       |                    |        |        |
| Family Tyrannidae (flycatchers)                                   |       |                    |        |        |
| <i>Contopus cooperi</i> (Nuttall), olive-sided flycatcher         | I     | R                  | M      |        |
| <i>C. sordidulus</i> Sclater, western wood-pewee                  | W     | R                  | A      |        |
| <i>C. virens</i> (Linnaeus), eastern wood-pewee                   | I     | C                  | S*     |        |
| <i>Empidonax althorum</i> Brewster, alder flycatcher              | N     | R                  | S*     |        |

Table 2.—Continued.

|   | Range | Relative abundance | Season | Status |
|---|-------|--------------------|--------|--------|
| <i>E. flaviventris</i> (Baird and Baird), yellow-bellied flycatcher | I     | R                  | M      |        |
| <i>E. minimus</i> (Baird and Baird), least flycatcher               | I     | R                  | S*     |        |
| <i>E. traillii</i> (Audubon), willow flycatcher                     | I     | O                  | S*     |        |
| <i>E. virescens</i> (Vieillot), Acadian flycatcher                  | I     | O                  | S*     |        |
| <i>Myiarchus crinitus</i> (Linnaeus), great crested flycatcher      | I     | O                  | S*     |        |
| <i>Pyrocephalus rubinus</i> (Boddaert), vermilion flycatcher        | I     | R                  | A      |        |
| <i>Sayornis phoebe</i> (Latham), eastern phoebe                     | I     | O                  | R*     |        |
| <i>S. saya</i> (Bonaparte), Say's phoebe                            | I     | R                  | A      |        |
| <i>Tyrannus forficatus</i> (Gmelin), scissor-tailed flycatcher      | S     | R                  | A*     |        |
| <i>T. tyrannus</i> (Linnaeus), eastern kingbird                     | I     | C                  | S*     |        |
| <i>T. verticalis</i> Say, western kingbird                          | I     | R                  | A*     |        |
| Family Laniidae (shrikes)   |       |                    |        |        |
| <i>Lanius excubitor</i> Linnaeus, northern shrike                   | N     | R                  | W      |        |
| <i>L. ludovicianus</i> Linnaeus, loggerhead shrike                  | I     | R                  | R*     | SE, FC |
| Family Vireonidae (vireos)  |       |                    |        |        |
| <i>Vireo bellii</i> Audubon, Bell's vireo                           | W     | R                  | S*     |        |
| <i>V. flavifrons</i> (Vieillot), yellow-throated vireo              | I     | O                  | S*     |        |
| <i>V. gilvus</i> (Vieillot), warbling vireo                         | I     | C                  | S*     |        |
| <i>V. griseus</i> (Boddaert), white-eyed vireo                      | I     | C                  | S*     |        |
| <i>V. olivaceus</i> (Linnaeus), red-eyed vireo                      | I     | C                  | S*     |        |
| <i>V. philadelphicus</i> (Cassin), Philadelphia vireo               | I     | R                  | M      |        |
| <i>V. solitarius</i> (Wilson), blue-headed vireo                    | I     | R                  | M*     |        |
| Family Corvidae (jays, magpies, and crows)                          |       |                    |        |        |
| <i>Aphelocoma californica</i> Vigors, western scrub-jay             | I     | R                  | A      |        |
| <i>Corvus brachyrhynchos</i> Brehm, American crow                   | I     | A                  | R*     |        |
| <i>C. corax</i> Linnaeus, common raven                              | I     | R                  | A(*)   |        |
| <i>C. ossifragus</i> Wilson, fish crow                              | SW    | R                  | S      |        |
| <i>Cyanocitta cristata</i> (Linnaeus), blue jay                     | I     | A                  | R*     |        |
| <i>Pica hudsonia</i> (Linnaeus), black-billed magpie                | I     | R                  | A      |        |
| Family Alaudidae (larks)  |       |                    |        |        |
| <i>Eremophila alpestris</i> (Linnaeus), horned lark                 | I     | C                  | R*     |        |

Table 2.—Continued.

|  | Range | Relative abundance | Season | Status |
|--|-------|--------------------|--------|--------|
| Family Hirundinidae (swallows)   |       |                    |        |        |
| <i>Hirundo rustica</i> Linnaeus, barn swallow                              | I     | A                  | S*     |        |
| <i>Petrochelidon pyrrhonota</i> Vieillot, cliff swallow                    | I     | R                  | S*     |        |
| <i>Progne subis</i> (Linnaeus), purple martin                              | I     | C                  | S*     |        |
| <i>Riparia riparia</i> (Linnaeus), bank swallow                            | I     | O                  | S*     |        |
| <i>Stelgidopteryx serripennis</i> (Audubon), northern rough-winged swallow | I     | O                  | S*     |        |
| <i>Tachycineta bicolor</i> (Vieillot), tree swallow                        | I     | O                  | S*     |        |
| Family Paridae (titmice)   |       |                    |        |        |
| <i>Baeolophus bicolor</i> Linnaeus, tufted titmouse                        | I     | C                  | R*     |        |
| <i>Poecile atricapilla</i> Linnaeus, black-capped chickadee                | N     | C                  | R*     |        |
| <i>P. carolinensis</i> Audubon, Carolina chickadee                         | S     | C                  | R*     |        |
| <i>P. ludsonia</i> Forster, boreal chickadee                               | I     | R                  | A      |        |
| Family Sittidae (nuthatches)   |       |                    |        |        |
| <i>Sitta canadensis</i> Linnaeus, red-breasted nuthatch                    | I     | O                  | W*     |        |
| <i>S. carolinensis</i> Latham, white-breasted nuthatch                     | I     | C                  | R*     |        |
| Family Certhiidae (creepers)   |       |                    |        |        |
| <i>Certhia americana</i> Bonaparte, brown creeper                          | I     | O                  | R*     |        |
| Family Troglodytidae (wrens)   |       |                    |        |        |
| <i>Cistothorus palustris</i> (Wilson), marsh wren                          | I     | R                  | S*     | SE     |
| <i>C. platensis</i> (Latham), sedge wren                                   | I     | R                  | S*     | SE     |
| <i>Salpinctes obsoletus</i> (Say), rock wren                               | I     | R                  | A      |        |
| <i>Thryomanes bewickii</i> (Audubon), Bewick's wren                        | I     | R                  | R*     | SE     |
| <i>Thryothorus ludovicianus</i> (Latham), Carolina wren                    | I     | C                  | R*     |        |
| <i>Troglodytes aedon</i> Vieillot, house wren                              | I     | C                  | S*     |        |
| <i>T. troglodytes</i> (Linnaeus), winter wren                              | I     | O                  | W      |        |
| Family Regulidae (kinglets)  |       |                    |        |        |
| <i>Regulus calendula</i> (Linnaeus), ruby-crowned kinglet                  | I     | R                  | M      |        |
| <i>R. satrapa</i> Lichtenstein, golden-crowned kinglet                     | I     | C                  | W*     |        |
| Family Sylviidae (old world warblers)                                      |       |                    |        |        |
| <i>Poliophtila caerulea</i> (Linnaeus), blue-gray gnatcatcher              | I     | C                  | S*     |        |
| Family Turdidae (thrushes)   |       |                    |        |        |
| <i>Catharus fuscescens</i> (Stephens) veery                                | I     | O                  | S*     |        |
| <i>C. guttatus</i> (Pallas), hermit thrush                                 | I     | O                  | W      |        |
| <i>C. mitimus</i> (Lafresnaye), gray-cheeked thrush                        | I     | O                  | M      |        |

Table 2.—Continued.

|   | Range | Relative abundance | Season | Status |
|---|-------|--------------------|--------|--------|
| <i>C. ustulatus</i> (Nuttall), Swainson's thrush                    | I     | O                  | M      |        |
| <i>Hylocichla mustelina</i> (Gmelin), wood thrush                   | I     | C                  | S*     |        |
| <i>Ixoreus naevius</i> (Gmelin), varied thrush                      | I     | R                  | A      |        |
| <i>Myadestes townsendi</i> (Audubon), Townsend's solitaire          | I     | R                  | A      |        |
| <i>Oenanthe oenanthe</i> (Linnaeus), northern wheatear              | I     | R                  | A      |        |
| <i>Sialia currucoides</i> (Bechstein), mountain bluebird            | I     | R                  | A      |        |
| <i>S. sialis</i> (Linnaeus), eastern bluebird                       | I     | C                  | R*     |        |
| <i>Turdus migratorius</i> Linnaeus, American robin                  | I     | A                  | R*     |        |
| Family Mimidae (mimic thrushes)                                     |       |                    |        |        |
| <i>Dumetella carolinensis</i> (Linnaeus), gray catbird              | I     | C                  | S*     |        |
| <i>Mimus polyglottos</i> (Linnaeus), northern mockingbird           | I     | C                  | R*     |        |
| <i>Toxostoma rufum</i> (Linnaeus), brown thrasher                   | I     | C                  | R*     |        |
| Family Sturnidae (starlings)  |       |                    |        |        |
| <i>Sturnus vulgaris</i> Linnaeus, European starling                 | I     | A                  | R*     | X      |
| Family Motacillidae (wagtails and pipits)                           |       |                    |        |        |
| <i>Anthus rubescens</i> (Tunstall), American pipit                  | I     | R                  | M      |        |
| Family Bombycillidae (waxwings)                                     |       |                    |        |        |
| <i>Bombycilla cedrorum</i> Vieillot, cedar waxwing                  | I     | O                  | R*     |        |
| <i>B. garrulus</i> (Linnaeus), Bohemian waxwing                     | N     | R                  | W      |        |
| Family Parulidae (new world warblers)                               |       |                    |        |        |
| <i>Dendroica caerulescens</i> (Gmelin), black-throated blue warbler | I     | O                  | M      |        |
| <i>D. castanea</i> (Wilson), bay-breasted warbler                   | I     | O                  | M      |        |
| <i>D. cerulea</i> (Wilson), cerulean warbler                        | I     | O                  | S*     | SC     |
| <i>D. coronata</i> (Linnaeus), yellow-rumped warbler                | I     | C                  | W      |        |
| <i>D. discolor</i> (Vieillot), prairie warbler                      | I     | O                  | S*     |        |
| <i>D. dominica</i> (Linnaeus), yellow-throated warbler              | I     | O                  | S*     |        |
| <i>D. fusca</i> (Müller), blackburnian warbler                      | I     | O                  | M*     |        |
| <i>D. kirtlandii</i> (Baird), Kirtland's warbler                    | I     | R                  | M      | SE, FE |
| <i>D. magnaolia</i> (Wilson), magnolia warbler                      | I     | O                  | M*     |        |
| <i>D. nigrescens</i> (Townsend), black-throated gray warbler        | I     | R                  | A      |        |
| <i>D. palmarum</i> (Gmelin), palm warbler                           | I     | O                  | M      |        |
| <i>D. pensylvanica</i> (Linnaeus), chestnut-sided warbler           | N     | O                  | M*     |        |
| <i>D. petechia</i> (Linnaeus), yellow warbler                       | I     | C                  | S*     |        |
| <i>D. pinus</i> (Wilson), pine warbler                              | S     | O                  | S*     |        |

Table 2.—Continued.

|   | Range | Relative abundance | Season | Status |
|---|-------|--------------------|--------|--------|
| <i>D. striata</i> (Forster), blackpoll warbler                | I     | O                  | M      |        |
| <i>D. tigrina</i> (Gmelin), Cape May warbler                  | I     | O                  | M      |        |
| <i>D. townsendi</i> (Townsend), Townsend's warbler            | I     | R                  | A      |        |
| <i>D. virens</i> (Gmelin), black-throated green warbler       | I     | O                  | S*     |        |
| <i>Geothlypis trichas</i> (Linnaeus), common yellowthroat     | I     | C                  | S*     |        |
| <i>Helmitheros vermivorus</i> (Gmelin), worm-eating warbler   | I     | R                  | S*     | SC     |
| <i>Icteria virens</i> (Linnaeus), yellow-breasted chat        | I     | C                  | S*     |        |
| <i>Linnothlypis swainsonii</i> (Audubon), Swainson's warbler  | SW    | R                  | A      |        |
| <i>Mniotilta varia</i> (Linnaeus), black-and-white warbler    | I     | O                  | S*     | SC     |
| <i>Oporornis agilis</i> (Wilson), Connecticut warbler         | I     | R                  | M      |        |
| <i>O. formosus</i> (Wilson), Kentucky warbler                 | I     | O                  | S*     |        |
| <i>O. philadelphica</i> (Wilson), mourning warbler            | I     | R                  | M      |        |
| <i>Parula americana</i> (Linnaeus), northern parula           | I     | O                  | S*     |        |
| <i>Protonotaria citrea</i> (Boddaert), prothonotary warbler   | I     | O                  | S*     |        |
| <i>Seiurus aurocapillus</i> (Linnaeus), ovenbird              | I     | O                  | S*     |        |
| <i>S. motacilla</i> (Vieillot), Louisiana waterthrush         | I     | O                  | S*     |        |
| <i>S. noveboracensis</i> (Gmelin), northern waterthrush       | I     | R                  | S*     |        |
| <i>Setophaga ruticilla</i> (Linnaeus), American redstart      | I     | O                  | S*     |        |
| <i>Vermivora celata</i> (Say), orange-crowned warbler         | I     | O                  | M      |        |
| <i>V. chrysoptera</i> (Linnaeus), golden-winged warbler       | I     | R                  | S*     | SE     |
| <i>V. peregrina</i> (Wilson), Tennessee warbler               | I     | C                  | M      |        |
| <i>V. pinus</i> (Linnaeus), blue-winged warbler               | I     | O                  | S*     |        |
| <i>V. ruficapilla</i> (Wilson), Nashville warbler             | I     | O                  | M      |        |
| <i>Wilsonia canadensis</i> (Linnaeus), Canada warbler         | N     | R                  | M*     |        |
| <i>W. citrina</i> (Boddaert), hooded warbler                  | I     | R                  | S*     | SC     |
| <i>W. pusilla</i> (Wilson), Wilson's warbler                  | I     | O                  | M      |        |
| Family Thraupidae (tanagers)                                  |       |                    |        |        |
| <i>Piranga ludoviciana</i> (Wilson), western tanager          | W     | R                  | A      |        |
| <i>P. olivacea</i> (Gmelin), scarlet tanager                  | I     | O                  | S*     |        |
| <i>P. rubra</i> (Linnaeus), summer tanager                    | S     | O                  | S*     |        |
| Family Emberizidae (new world sparrows)                       |       |                    |        |        |
| <i>Aimophila aestivalis</i> (Lichtenstein), Bachman's sparrow | S     | R                  | S(*)   | SE     |

Table 2.—Continued.

|  | Range | Relative abundance | Season | Status |
|--|-------|--------------------|--------|--------|
| <i>A. cassinii</i> (Woodhouse), Cassin's sparrow               | I     | R                  | A      |        |
| <i>Anmodramus henslowii</i> (Audubon), Henslow's sparrow       | I     | R                  | S*     | SE     |
| <i>A. lecontei</i> (Audubon), LeConte's sparrow                | I     | R                  | W      |        |
| <i>A. nelsoni</i> (Allen), Nelson's sharp-tailed sparrow       | I     | R                  | M      |        |
| <i>A. savannarum</i> (Gmelin), grasshopper sparrow             | I     | O                  | S*     |        |
| <i>Calamospiza melanocorys</i> Stejneger, lark bunting         | I     | R                  | A      |        |
| <i>Calcarius lapponicus</i> (Linnaeus), Lapland longspur       | I     | O                  | W      |        |
| <i>C. nuncovittii</i> (Lawrence), McCown's longspur            | I     | R                  | A      |        |
| <i>C. pictus</i> (Swainson), Smith's longspur                  | I     | R                  | M      |        |
| <i>Chondestes grammacus</i> (Say), lark sparrow                | I     | R                  | S*     |        |
| <i>Junco hyemalis</i> (Linnaeus), dark-eyed junco              | I     | A                  | W      |        |
| <i>Melospiza georgiana</i> (Latham), swamp sparrow             | I     | O                  | R*     |        |
| <i>M. lincolni</i> (Audubon), Lincoln's sparrow                | I     | R                  | M      |        |
| <i>M. melodia</i> (Wilson), song sparrow                       | I     | A                  | R*     |        |
| <i>Passerculus sandwichensis</i> (Gmelin), savannah sparrow    | I     | O                  | S*     |        |
| <i>Passerella iliaca</i> (Merrem), fox sparrow                 | I     | O                  | W      |        |
| <i>Pipilo chlorurus</i> (Audubon), green-tailed towhee         | I     | R                  | A      |        |
| <i>P. erythrophthalmus</i> (Linnaeus), eastern towhee          | I     | O                  | R*     |        |
| <i>P. maculatus</i> (Swainson), spotted towhee                 | I     | R                  | A      |        |
| <i>Plectrophenax nivalis</i> (Linnaeus), snow bunting          | I     | O                  | W      |        |
| <i>Poocetes gramineus</i> (Gmelin), vesper sparrow             | I     | O                  | S*     |        |
| <i>Spizella arborea</i> (Wilson), American tree sparrow        | I     | C                  | W      |        |
| <i>S. pallida</i> (Swainson), clay-colored sparrow             | I     | R                  | A      |        |
| <i>S. passerina</i> (Bechstein), chipping sparrow              | I     | C                  | S*     |        |
| <i>S. pusilla</i> (Wilson), field sparrow                      | I     | C                  | R*     |        |
| <i>Zonotrichia albicollis</i> (Gmelin), white-throated sparrow | I     | O                  | W      |        |
| <i>Z. leucophrys</i> (Forster), white-crowned sparrow          | I     | O                  | W      |        |
| <i>Z. querula</i> (Nuttall), Harris's sparrow                  | I     | R                  | W      |        |
| Family Cardinalidae (grosbeaks)                                |       |                    |        |        |
| <i>Cardinalis cardinalis</i> (Linnaeus), northern cardinal     | I     | A                  | R*     |        |

Table 2.—Continued.

|   | Range | Relative abundance | Season | Status |
|---|-------|--------------------|--------|--------|
| <i>Passerina caerulea</i> (Linnaeus), blue grosbeak                       | S     | O                  | S*     |        |
| <i>P. ciris</i> (Linnaeus), painted bunting                               | I     | R                  | A      |        |
| <i>P. cyanea</i> (Linnaeus), indigo bunting                               | I     | A                  | S*     |        |
| <i>Pheucticus ludovicianus</i> (Linnaeus), rose-breasted grosbeak         | I     | C                  | S*     |        |
| <i>P. melanocephalus</i> (Swainson), black-headed grosbeak                | I     | R                  | A      |        |
| <i>Spiza americana</i> (Gmelin), dickcissel                               | I     | O                  | S*     |        |
| Family Icteridae (icterines)  |       |                    |        |        |
| <i>Agelaius phoeniceus</i> (Linnaeus), red-winged blackbird               | I     | A                  | R*     |        |
| <i>Dolichonyx oryzivorus</i> (Linnaeus), bobolink                         | I     | O                  | S*     |        |
| <i>Euphagus carolinus</i> (Müller), rusty blackbird                       | I     | R                  | W      |        |
| <i>E. cyanocephalus</i> (Wagler), Brewer's blackbird                      | W     | R                  | M*     |        |
| <i>Icterus galbula</i> (Linnaeus), Baltimore oriole                       | I     | O                  | S*     |        |
| <i>I. spurius</i> (Linnaeus), orchard oriole                              | I     | O                  | S*     |        |
| <i>Molothrus ater</i> (Boddaert), brown-headed cowbird                    | I     | A                  | R*     |        |
| <i>Quiscalus mexicanus</i> (Gmelin), great-tailed grackle                 | I     | R                  | A      |        |
| <i>Q. quiscula</i> (Linnaeus), common grackle                             | I     | A                  | R*     |        |
| <i>Sturnella magna</i> (Linnaeus), eastern meadowlark                     | I     | A                  | R*     |        |
| <i>S. neglecta</i> (Audubon), western meadowlark                          | N     | R                  | R*     | SC     |
| <i>Xanthocephalus xanthocephalus</i> (Bonaparte), yellow-headed blackbird | W     | R                  | S*     | SE     |
| Family Fringillidae (finches)   |       |                    |        |        |
| <i>Carduelis flammula</i> (Linnaeus), common redpoll                      | N     | R                  | W      |        |
| <i>C. hornemanni</i> (Holböll), hoary redpoll                             | N     | R                  | A      |        |
| <i>C. pinus</i> (Wilson), pine siskin                                     | I     | O                  | W*     |        |
| <i>C. tristis</i> (Linnaeus), American goldfinch                          | I     | C                  | R*     |        |
| <i>Carpodacus mexicanus</i> (Müller), house finch                         | I     | C                  | R*     | X      |
| <i>C. purpureus</i> (Gmelin), purple finch                                | I     | O                  | W      |        |
| <i>Coccothraustes vespertinus</i> (Cooper), evening grosbeak              | I     | R                  | W      |        |
| <i>Fringilla montifringilla</i> Linnaeus, brambling                       | I     | R                  | A      |        |
| <i>Loxia curvirostra</i> Linnaeus, red crossbill                          | N     | R                  | W*     |        |
| <i>L. leucoptera</i> Gmelin, white-winged crossbill                       | N     | R                  | W      |        |
| <i>Pinicola enucleator</i> (Linnaeus), pine grosbeak                      | N     | R                  | W      |        |
| Family Passeridae (weaver finches)  |       |                    |        |        |

Table 2.—Continued.

|  | Range | Relative abundance | Season | Status            |
|--|-------|--------------------|--------|-------------------|
| <i>Passer domesticus</i> (Linnaeus), house sparrow                 | I     | A                  | R*     | X                 |
| <i>P. montanus</i> (Linnaeus), Eurasian tree sparrow               | I     | R                  | A      | X                 |
| Extirpated:  |       |                    |        |                   |
| <i>Campephilus principalis</i> (Linnaeus), ivory-billed woodpecker | S     |                    | H(*)   | FE, Ex (1814)     |
| <i>Contopus carolinensis</i> (Linnaeus), Carolina parakeet         | I     |                    | R(*)   | Ex (1859)         |
| <i>Ectopistes migratorius</i> (Linnaeus), passenger pigeon         | I     |                    | R(*)   | Ex (1902)         |
| <i>Grus americana</i> (Linnaeus), whooping crane                   | N     |                    | M      | SE, FE, Ex (1907) |
| <i>Numenius borealis</i> (Forster), eskimo curlew                  | I     |                    | M      | FE, Ex (1890)     |
| <i>Perdix perdix</i> (Linnaeus), gray partridge                    | N     |                    | R(*)   | X, Ex (1977)      |
| <i>Tympanuchus cupido</i> (Linnaeus), greater prairie-chicken      | NW    |                    | R(*)   | Ex (1972)         |
| <i>Vermivora bachmanii</i> (Audubon), Bachman's warbler            | S     |                    | H      | FE, Ex (1899)     |