

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

¹ 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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LITERATURE CITED

- American Fisheries Society. 1991. Common and Scientific Names of Fishes from the United States and Canada. American Fisheries Society Special Publication 20. 183 pp.
- American Ornithologists' Union. 1998. Check-list of North American Birds. 7th ed. American Ornithologists' Union. 829 pp.
- Burr, B.M. & M.L. Warren, Jr. 1986. A Distributional Atlas of Kentucky Fishes. Kentucky Nature Preserves Scientific and Technical Series 4. 398 pp.
- Castrale, J.S., E.M. Hopkins & C.E. Keller. 1998. Atlas of Breeding Birds of Indiana. Indiana Department of Natural Resources. Indianapolis. 388 pp.
- Collins, J.T. 1990. Standard common and current scientific names for North American amphibians and reptiles, 3rd ed. Society for the Study of Amphibians and Reptiles Herpetological Circular No. 19. 41 pp.
- Conant, J. & J.T. Collins. 1991. A Field Guide to Reptiles and Amphibians: Eastern and Central North America. Houghton Mifflin, Boston. 608 pp.
- Etnier, D.A. & W.C. Starnes. 1993. The Fishes of Tennessee. University of Tennessee Press, Knoxville. 681 pp.
- Gerking, S.D. 1945. The Distribution of the Fishes of Indiana. Investigations of Indiana Lakes and Streams 3:1-137.
- Indiana Department of Natural Resources (IDNR). 1999. Rare animals of Indiana. Indiana Department of Natural Resources, Indianapolis. 8 pp.
- Lee, D.S., C.R. Gilbert, C.H. Hocutt, R.E. Jenkins, D.E. McAllister & J.R. Stauffer, Jr. 1980. Atlas of North American Freshwater Fishes. North Carolina State Museum of Natural History, Raleigh, i-x + 854 pp.
- Mayden, R.L. 1989. Phylogenetic Studies of North American Minnows, with Emphasis on the Genus *Cyprinella* (Teleostei: Cypriniformes). Miscellaneous Publications University Kansas Museum Natural History 80. 189 pp.
- Minton, S.A., Jr. 1972. Amphibians and Reptiles of Indiana. Indiana Academy of Science Monograph 3. 346 pp.
- Minton, S.A., Jr. 2001. Amphibians and Reptiles of Indiana. Indiana Academy of Science, Indianapolis. 404 pp.
- Mumford, R.E. & C.E. Keller. 1984. Birds of Indiana. Indiana University Press. Bloomington. 376 pp.
- Mumford, R.E. & J.O. Whitaker, Jr. 1982. Mammals of Indiana. Indiana University Press. Bloomington. 537 pp.
- Simon, T.P., J.O. Whitaker, Jr., J.S. Castrale & S.A. Minton. 1993. Checklist of the Vertebrates of Indiana. Proceedings of the Indiana Academy of Science 101:95-126.
- U.S. Office of the Federal Register. 1996. Endangered and threatened wildlife and plants. Code of Federal Regulations, Title 50, Parts 17.11 and 17.12. U.S. Government Printing Office, Washington, D.C.
- Whitaker, J.O., Jr. & J.R. Gammon. 1988. Endangered and Threatened Vertebrate Animals of In-

diana, Their Distribution and Abundance. Indiana Academy of Science Monograph 5. 122 pp.
Wilson, D.E. & D.M. Reeder. 1993. Mammal Species of the World: A Taxonomic and Geographic Reference. Smithsonian Institution Press (Wash-

ington), in association with American Society of Mammalogists. 1206 pp.

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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
CLASS OSTEICHTHYES			
Order Petromyzontiformes (lampreys)			
Family Petromyzontidae (lamprey)			
<i>Ichthyomyzon bdellium</i> (Jordan), Ohio lamprey	W, S	R	
<i>I. castaneus</i> Girard, chestnut lamprey	SW	O	
<i>I. fossor</i> Reighard & Cummins, northern brook lamprey	NE	R	
<i>I. unicuspis</i> Hubbs & Trautman, silver lamprey	W, S	O	
<i>Lampetra aepyptera</i> (Abbott), least brook lamprey	SW	R	
<i>L. appendix</i> (DeKay), American brook lamprey	NW	O	
<i>Petromyzon marinus</i> Linnaeus, sea 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	S	O	
<i>H. tergisus</i> LeSueur, mooneye	W, S	O	
Order Anguilliformes (eels)			
Family Anguillidae (eel)			
<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	
<i>A. pseudoharengus</i> (Wilson), alewife	NW	A	X
<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. whippelii</i> Girard, steelcolor shiner	C, S	C	
<i>Cyprinus carpio</i> Linnaeus, carp	I	A	X
<i>Ericymba 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	O	X
<i>Luxilus chrysocephalus</i> Rafinesque, striped shiner	I	A	X
<i>L. cornutus</i> (Mitchill), common shiner	N	O	
<i>Lythrurus fasciolaris</i> (Gilbert), scarlet shiner	SE	C	
<i>L. fumeus</i> (Evermann), ribbon shiner	SW	R	
<i>L. umbratilis</i> (Girard), redfin shiner	W, C	C	
<i>Macrhybopsis hyostoma</i> (Gilbert), shoal chub	W, S	O	
<i>M. storeyana</i> (Kirtland), silver chub	W	C	
<i>Nocomis biguttatus</i> (Kirtland), hornyhead chub	N	C	
<i>N. micropogon</i> (Cope), river chub	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. bleunius</i> (Girard), river shiner	W, S	C	
<i>N. boops</i> Gilbert, bigeye shiner	C	C	
<i>N. burchanani</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	
<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>Opsopoeodus 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>Carpiodes 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	
<i>Erimyzon oblongus</i> (Mitchill), creek chubsucker	NW, C, SW	O	
<i>E. sucetta</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>Minyretoma 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. erythrurum</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. miurus</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 ^a	
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. tshawytscha</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	
<i>S. namaycush</i> (Walbaum), lake trout			
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 catenatus</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. pellicida</i> (Agassiz), eastern sand darter	C, SW	O	SC, FC
<i>Etheostoma asprigene</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. camurum</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. histrio</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. proeliare</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>Percina flavescens</i> (Mitchill), yellow perch	N	C	
<i>Percina 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>Aptodinotus grunniens</i> Rafinesque, freshwater drum	I	C	
Family Gobiidae			
<i>Neogobius melanostomus</i> (Pallas), round goby	NW	A	X
Extirpated:			
<i>Attractosteus spatula</i> (Lacepède), alligator gar	S	1976	Ex
<i>Alosa alabamae</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> (Koeltz), 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	SC
<i>A. laterale</i> Hallowell, blue-spotted salamander	N	O	
<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 intermedia</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 chrysocelis</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>Macrolemys temminckii</i> (Troost), alligator snapping turtle	SW	R	SE
Family Kinosternidae (musk and mud turtles)			
<i>Kinosternon subrubrum</i> (Lacépède), 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			
<i>Terrapene carolina</i> (Linnaeus), eastern box turtle	SW	1950	
<i>T. ornata</i> (Agassiz), ornate box turtle	I	C	
<i>Trachemys scripta</i> (Schöepff), red-eared turtle	NW, SW S, W	O C	SC

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 (iguamids)			
<i>Sceloporus undulatus</i> Latreille, eastern fence lizard	S	C	
Family Anguillidae (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>Emmecces 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>Crotaphis 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>Ophedryx 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. occipitamaculata</i> (Storer), red-bellied snake	I	O	ST
<i>Tantilla coronata</i> (Baird & Girard), crowned snake	S	R	ST
<i>Thamnophis butleri</i> (Cope), Butler's garter snake	NE, C	R	SC
<i>T. proximus</i> (Say), western ribbon snake	NW, SW	O	
<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>Lasiurus 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 hudsonicus</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 humilis</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
CLASS AVES				
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> (Boddart), 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 Frigateidae (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> (Miller), 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>Eudocimus albus</i> (Linnaeus), white ibis	S	R	A	
<i>Plegadis chihii</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>Histrionicus 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. platypterus</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>Coturnicops 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	
<i>C. melanotos</i> Ord, piping plover	I	R	A(*)	
<i>C. semipalmatus</i> Bonaparte, semipalmated plover	I	O	M	SE, FE
<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	SE
<i>C. niger</i> (Linnaeus), black tern	I	O	S*	
<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 niger</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 antillarum</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>Zenaidura 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 cunicularia</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> Slater, western wood-pewee	W	R	A	
<i>C. virens</i> (Linnaeus), eastern wood-pewee	I	C	S*	
<i>Empidonax alburnum</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. vireseus</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. hudsonia</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*	
<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. minimus</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>Icterus 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>B. garrulus</i> (Linnaeus), Bohemian waxwing	I	O	R*	
Family Parulidae (new world warblers)	N	R	W	
<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	
<i>D. magna</i> (Wilson), magnolia warbler	I	O	M*	SE, FE
<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>Helminthos vermivorus</i> (Gmelin), worm-eating warbler	I	R	S*	SC
<i>Icteria virens</i> (Linnaeus), yellow-breasted chat	I	C	S*	
<i>Limothlypis 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. philadelphia</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. chrysopiera</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>Ammodramus henlowii</i> (Audubon), Henslow's sparrow	I	R	S*	SE
<i>A. leconteii</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. mccownii</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 flammaea</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>Conuropsis 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)