



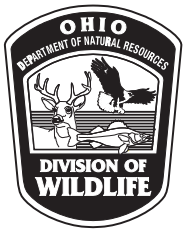
OHIO'S LISTED SPECIES

**WILDLIFE THAT ARE CONSIDERED TO BE
ENDANGERED, THREATENED, SPECIES OF CONCERN,
SPECIAL INTEREST, EXTIRPATED, OR EXTINCT IN OHIO**



photo by Jausa
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Northern harrier
Circus cyaneus



WILDLIFE THAT ARE CONSIDERED TO BE ENDANGERED, THREATENED, SPECIES OF CONCERN, SPECIAL INTEREST, EXTIRPATED, OR EXTINCT IN OHIO

The Division of Wildlife's mission is to conserve and improve the fish and wildlife resources and their habitats, and promote their use and appreciation by the public so that these resources continue to enhance the quality of life for all Ohioans. The Division has legal authority over Ohio's fish and wildlife, which includes about 56 species of mammals, 200 species of breeding birds, 84 species and subspecies of amphibians and reptiles, 170 species of fish, 100 species of mollusks, and 20 species of crustaceans. In addition, there are thousands of species of insects and other invertebrates which fall under the Division's jurisdiction. Furthermore, Ohio law grants authority to the chief of the Division to adopt rules restricting the taking or possession of native wildlife threatened with statewide extirpation and to develop and periodically update a list of endangered species (Ohio Revised Code 1531.25).

The status of native wildlife species is very important to the Division. While the listing process identifies individual wildlife species needing protection, it also serves as a powerful tool in the

Division's planning process. It provides direction for the allocation of personnel time and funds in Division programs and projects.

The first list of Ohio's endangered wildlife was adopted in 1974 and included 71 species. An extensive examination of the list is conducted every five years. The Division seeks input from our staff along with other noted professional and amateur wildlife experts across Ohio. In 2001, as part of our comprehensive management plan, the Division initiated a reevaluation of the endangered species list. During this process, the need for an additional state-list category was recognized and has been designated as "Special Interest." The name of the previous special interest category has been changed to "Species of Concern," but retains its original definition.

Therefore, in addition to endangered the Division uses five other categories: threatened, species of concern, special interest, extirpated, and extinct, to further define the status of selected wildlife. These categories and the species contained within them are dynamic and will be revised as our knowledge of the status of Ohio's wildlife evolves.

Definitions of these categories, a summary of the numbers of species and subspecies in each category, and the list of species and subspecies in each category follow:

ENDANGERED - A native species or subspecies threatened with extirpation from the state. The danger may result from one or more causes, such as habitat loss, pollution, predation, interspecific competition, or disease.

THREATENED - A species or subspecies whose survival in Ohio is not in immediate jeopardy, but to which a threat exists. Continued or increased stress will result in its becoming endangered.

SPECIES OF CONCERN - A species or subspecies which might become threatened in Ohio under continued or increased stress. Also, a species or subspecies for which there is some concern but for which information is insufficient to permit an adequate status evaluation. This category may contain species designated as a furbearer or game species but whose statewide population is dependent on the quality and/or quantity of habitat and is not adversely impacted by regulated harvest.

SPECIAL INTEREST - A species that occurs periodically and is capable of breeding in Ohio. It is at the edge of a larger, contiguous range with viable population(s) within the core of its range. These species have no federal endangered or threatened status, are at low breeding densities in the state, and have not been recently released to enhance Ohio's wildlife diversity. With the exception of efforts to conserve occupied areas, minimal management efforts will be directed for these species because it is unlikely to result in significant increases in their populations within the state.

EXTIRPATED - A species or subspecies that occurred in Ohio at the time of European settlement and that has since disappeared from the state.

EXTINCT - A species or subspecies that occurred in Ohio at the time of European settlement and that has since disappeared from its entire range.

**Number of Species in Major Taxa Classified as
Endangered, Threatened, Species of Concern, Special Interest,
Extirpated, or Extinct in Ohio**

| Taxon | Endangered | Threatened | Species of Concern | Special Interest | Extirpated | Extinct |
|------------------------|-------------------|-------------------|-------------------------------|-----------------------------|-------------------|----------------|
| Mammals | 3 | 2 | 19 | 1 | 10 | 0 |
| Birds | 13 | 5 | 13 | 33 | 6 | 2 |
| Reptiles | 5 | 4 | 11 | 0 | 0 | 0 |
| Amphibians | 5 | 1 | 2 | 0 | 0 | 0 |
| Fishes | 20 | 13 | 9 | 0 | 8 | 2 |
| Mollusks | 24 | 4 | 8 | 0 | 11 | 6 |
| Crayfishes | 0 | 2 | 3 | 0 | 0 | 0 |
| Isopods | 2 | 1 | 0 | 0 | 0 | 0 |
| Pseudoscorpions | 1 | 0 | 0 | 0 | 0 | 0 |
| Dragonflies | 13 | 3 | 1 | 0 | 0 | 0 |
| Damselflies | 3 | 3 | 0 | 0 | 0 | 0 |
| Caddisflies | 3 | 6 | 3 | 0 | 0 | 0 |
| Mayflies | 2 | 0 | 1 | 0 | 0 | 0 |
| Midges | 1 | 3 | 1 | 0 | 0 | 0 |
| Crickets | 0 | 0 | 1 | 0 | 0 | 0 |
| Butterflies | 8 | 1 | 2 | 1 | 1 | 0 |
| Moths | 14 | 4 | 22 | 11 | 0 | 0 |
| Beetles | 2 | 2 | 6 | 0 | 0 | 1 |
| Total | 119 | 54 | 102 | 46 | 36 | 11 |

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OHIO's ENDANGERED SPECIES

NOTE: *E & *T denote federal (U.S. Fish and Wildlife Service)
listed endangered and threatened species respectively.

MAMMALS ENDANGERED

| | |
|-------------------|-------------------------|
| Indiana myotis *E | <i>Myotis sodalis</i> |
| Allegheny woodrat | <i>Neotoma magister</i> |
| Black bear | <i>Ursus americanus</i> |

BIRDS ENDANGERED

| | |
|-----------------------|------------------------------|
| American bittern | <i>Botaurus lentiginosus</i> |
| Northern harrier | <i>Circus cyaneus</i> |
| King rail | <i>Rallus elegans</i> |
| Sandhill crane | <i>Grus canadensis</i> |
| Piping plover *E | <i>Charadrius melodus</i> |
| Common tern | <i>Sterna hirundo</i> |
| Black tern | <i>Chlidonias niger</i> |
| Loggerhead shrike | <i>Lanius ludovicianus</i> |
| Kirtland's warbler *E | <i>Setophaga kirtlandii</i> |
| Lark sparrow | <i>Chondestes grammacus</i> |
| Snowy egret | <i>Egretta thula</i> |
| Cattle egret | <i>Bubulcus ibis</i> |
| Upland sandpiper | <i>Bartramia longicauda</i> |

REPTILES ENDANGERED

| | |
|---------------------------|---------------------------------------|
| Copperbelly watersnake *T | <i>Nerodia erythrogaster neglecta</i> |
| Plains gartersnake | <i>Thamnophis radix</i> |
| Timber rattlesnake | <i>Crotalus horridus</i> |
| Massasauga | <i>Sistrurus catenatus</i> |
| Smooth greensnake | <i>Opheodrys vernalis</i> |

AMPHIBIANS ENDANGERED

| | |
|-------------------------|---|
| Eastern hellbender | <i>Cryptobranchus alleganiensis alleganiensis</i> |
| Blue-spotted salamander | <i>Ambystoma laterale</i> |
| Green salamander | <i>Aneides aeneus</i> |
| Cave salamander | <i>Eurycea lucifuga</i> |
| Eastern spadefoot | <i>Scaphiopus holbrookii</i> |

FISHES ENDANGERED

| | |
|--------------------------|-------------------------------------|
| Ohio lamprey | <i>Ichthyomyzon bdellium</i> |
| Northern brook lamprey | <i>Ichthyomyzon fossor</i> |
| Mountain brook lamprey | <i>Ichthyomyzon greeleyi</i> |
| Lake sturgeon | <i>Acipenser fulvescens</i> |
| Shovelnose sturgeon | <i>Scaphirhynchus platyrhynchus</i> |
| Spotted gar | <i>Lepisosteus oculatus</i> |
| Shortnose gar | <i>Lepisosteus platostomus</i> |
| Cisco (or Lake herring) | <i>Coregonus artedii</i> |
| Goldeye | <i>Hiodon alosoides</i> |
| Shoal chub | <i>Macrhybopsis hyostoma</i> |
| Pugnose minnow | <i>Opsopoeodus emiliae</i> |
| Popeye shiner | <i>Notropis ariommus</i> |
| Longnose sucker | <i>Catostomus catostomus</i> |
| Northern madtom | <i>Noturus stigmosus</i> |
| Scioto madtom *E | <i>Noturus trautmani</i> |
| Pirate perch | <i>Aphredoderus sayanus</i> |
| Western banded killifish | <i>Fundulus diaphanus menona</i> |
| Spotted darter | <i>Etheostoma maculatum</i> |
| Iowa darter | <i>Etheostoma exile</i> |
| Gilt darter | <i>Percina evides</i> |

MOLLUSKS ENDANGERED

| | |
|-------------------------|--|
| Snuffbox *E | <i>Epioblasma triquetra</i> |
| Ebonysnail | <i>Fusconaia ebanas</i> |
| Fanshell *E | <i>Cyprogenia stegaria</i> |
| Butterfly | <i>Ellipsaria lineolata</i> |
| Elephantear | <i>Elliptio crassidens crassidens</i> |
| Purple catpaw *E | <i>Epioblasma obliquata obliquata</i> |
| White catpaw *E | <i>Epioblasma obliquata perobliqua</i> |
| Northern riffleshell *E | <i>Epioblasma torulosa rangiana</i> |
| Longsolid | <i>Fusconaia subrotunda</i> |
| Pink mucket *E | <i>Lampsilis orbiculata</i> |
| Pocketbook | <i>Lampsilis ovata</i> |
| Yellow sandshell | <i>Lampsilis teres</i> |
| Eastern pondmussel | <i>Ligumia nasuta</i> |
| Washboard | <i>Megalania nervosa</i> |
| Sheepnose *E | <i>Plethobasus cyphus</i> |

MOLLUSKS (CONT.) ENDANGERED

| | |
|----------------------|---------------------------------------|
| Clubshell *E | <i>Pleurobema clava</i> |
| Ohio pigtoe | <i>Pleurobema cordatum</i> |
| Pyramid pigtoe | <i>Pleurobema rubrum</i> |
| Rabbitsfoot *T | <i>Quadrula cylindrica cylindrica</i> |
| Monkeyface | <i>Quadrula metanevra</i> |
| Wartyback | <i>Quadrula nodulata</i> |
| Purple lilliput | <i>Toxolasma lividum</i> |
| Rayed bean *E | <i>Villosa fabalis</i> |
| Little spectaclecase | <i>Villosa lienosa</i> |

DRAGONFLIES ENDANGERED

| | |
|------------------------|-----------------------------|
| Hine's emerald *E | <i>Somatochlora hineana</i> |
| Mottled darner | <i>Aeshna clepsydra</i> |
| Plains clubtail | <i>Gomphus externus</i> |
| American emerald | <i>Cordulia shurtleffi</i> |
| Uhler's sundragon | <i>Helocordulia uhleri</i> |
| Frosted whiteface | <i>Leucorrhinia frigida</i> |
| Elfin skimmer | <i>Nannothemis bella</i> |
| Canada darner | <i>Aeshna canadensis</i> |
| Racket-tailed emerald | <i>Dorocordulia libera</i> |
| Brush-tipped emerald | <i>Somatochlora walshii</i> |
| Blue corporal | <i>Ladona deplanata</i> |
| Chalk-fronted corporal | <i>Ladona julia</i> |
| Yellow-sided skimmer | <i>Libellula flava</i> |

DAMSELFLIES ENDANGERED

| | |
|------------------|------------------------------|
| Lilypad forktail | <i>Ischnura kellicotti</i> |
| Seepage dancer | <i>Argia bipunctulata</i> |
| River jewelwing | <i>Calopteryx aequabilis</i> |

CADDISFLIES ENDANGERED

| | |
|---|--------------------------------|
| — | <i>Chimarra socia</i> |
| — | <i>Oecetis eddlestoni</i> |
| — | <i>Brachycentrus numerosus</i> |

MAYFLIES ENDANGERED

| | |
|---|-------------------------------|
| — | <i>Rhithrogena pellucida</i> |
| — | <i>Litobranchea recurvata</i> |

MIDGES ENDANGERED

| | |
|---|-------------------------|
| — | <i>Rheopelopia acra</i> |
|---|-------------------------|

BUTTERFLIES ENDANGERED

| | |
|---------------------|-----------------------------------|
| Persius dusky wing | <i>Erynnis persius</i> |
| Frosted elfin | <i>Callophrys irus</i> |
| Karner blue *E | <i>Lycaeides melissa samuelis</i> |
| Purplish copper | <i>Lycaena helloides</i> |
| Swamp metalmark | <i>Calephelis muticum</i> |
| Regal fritillary | <i>Speyeria idalia</i> |
| Mitchell's satyr *E | <i>Neonympha mitchellii</i> |
| Grizzled skipper | <i>Pyrgus centaureae wyandot</i> |

MOTHS ENDANGERED

| | |
|-----------------------|-----------------------------|
| Unexpected cynia | <i>Cynia inopinatus</i> |
| Graceful underwing | <i>Catocala gracilis</i> |
| — | <i>Spartiniphaga inops</i> |
| — | <i>Hypocoena enervata</i> |
| — | <i>Papaipema silphii</i> |
| — | <i>Papaipema beeriana</i> |
| — | <i>Lithophane semiusta</i> |
| — | <i>Trichoclea artesta</i> |
| — | <i>Tricholita notata</i> |
| — | <i>Melanchra assimilis</i> |
| Pointed sawfly | <i>Epiglaea apiata</i> |
| — | <i>Ufeus plicatus</i> |
| — | <i>Ufeus satyricus</i> |
| Hebard's noctuid moth | <i>Erythroecia hebardii</i> |

BEETLES ENDANGERED

| | |
|----------------------------|------------------------------------|
| Ohio cave beetle | <i>Pseudanophthalmus ohioensis</i> |
| American burying beetle *E | <i>Nicrophorus americanus</i> |

ISOPODS ENDANGERED

| | |
|---------------------|-----------------------------------|
| Fern cave isopod | <i>Caecidotea filicispeluncae</i> |
| Unnamed cave isopod | <i>Caecidotea sp. nov.</i> |

PSEUDOSCORPIONS ENDANGERED

| | |
|------------------------------|----------------------------|
| Buckskin cave pseudoscorpion | <i>Apochthonius hobbsi</i> |
|------------------------------|----------------------------|

OHIO's THREATENED SPECIES

NOTE: *E & *T denote federal (U.S. Fish and Wildlife Service)
listed endangered and threatened species respectively.

MAMMALS THREATENED

| | |
|----------------------------|--------------------------------|
| Eastern harvest mouse | <i>Reithrodontomys humulis</i> |
| Northern long-eared bat *T | <i>Myotis septentrionalis</i> |

BIRDS THREATENED

| | |
|---------------------------|------------------------------|
| Black-crowned night-heron | <i>Nycticorax nycticorax</i> |
| Barn owl | <i>Tyto alba</i> |
| Least bittern | <i>Ixobrychus exilis</i> |
| Rufa red knot *T | <i>Calidris canutus rufa</i> |
| Trumpeter swan | <i>Cygnus buccinator</i> |

REPTILES THREATENED

| | |
|----------------------|----------------------------------|
| Kirtland's snake | <i>Clonophis kirtlandii</i> |
| Spotted turtle | <i>Clemmys guttata</i> |
| Blanding's turtle | <i>Emydoidea blandingii</i> |
| Lake Erie watersnake | <i>Nerodia sipedon insularum</i> |

AMPHIBIANS THREATENED

| | |
|----------------|------------------------------|
| Mud salamander | <i>Pseudotriton montanus</i> |
|----------------|------------------------------|

FISHES THREATENED

| | |
|-------------------|--------------------------------|
| Brook trout | <i>Salvelinus fontinalis</i> |
| Bigeye shiner | <i>Notropis boops</i> |
| Tonguetied minnow | <i>Exoglossum laurae</i> |
| Greater redhorse | <i>Moxostoma valenciennesi</i> |
| Channel darter | <i>Percina copelandi</i> |
| American eel | <i>Anguilla rostrata</i> |
| Paddlefish *M | <i>Polyodon spathula</i> |
| Bigmouth shiner | <i>Notropis dorsalis</i> |
| Lake chubsucker | <i>Erimyzon sucetta</i> |
| River darter | <i>Percina shumardi</i> |
| Tippecanoe darter | <i>Etheostoma tippecanoe</i> |
| Blue sucker | <i>Cycleptus elongatus</i> |
| Mountain madtom | <i>Noturus eleutherus</i> |

MOLLUSKS THREATENED

| | |
|---------------------|-------------------------------|
| Black sandshell | <i>Ligumia recta</i> |
| Threehorn wartyback | <i>Obliquaria reflexa</i> |
| Fawnsfoot | <i>Truncilla donaciformis</i> |
| Pondhorn | <i>Unimerus tetralasmus</i> |

CRAYFISHES THREATENED

| | |
|---------------------|----------------------------|
| Sloan's crayfish | <i>Orconectes sloanii</i> |
| Cavespring crayfish | <i>Cambarus tenebrosus</i> |

DRAGONFLIES THREATENED

| | |
|----------------------|--------------------------------|
| Riffle snaketail | <i>Ophiogomphus carolus</i> |
| Harlequin darter | <i>Gomphaeschna furcillata</i> |
| Green-faced clubtail | <i>Gomphus viridifrons</i> |

DAMSELFLIES THREATENED

| | |
|----------------|------------------------------|
| Boreal bluet | <i>Enallagma boreale</i> |
| Northern bluet | <i>Enallagma cyathigerum</i> |
| Marsh bluet | <i>Enallagma ebrium</i> |

CADDISFLIES THREATENED

| | |
|---|------------------------------|
| — | <i>Psilotreta indecisa</i> |
| — | <i>Hydroptila albicornis</i> |
| — | <i>Hydroptila artesa</i> |
| — | <i>Hydroptila koryaki</i> |
| — | <i>Hydroptila talledaga</i> |
| — | <i>Hydroptila valhalla</i> |

MIDGES THREATENED

| | |
|---|----------------------------------|
| — | <i>Bethbilbeckia floridensis</i> |
| — | <i>Apsectrotanypus johnsoni</i> |
| — | <i>Radotanypus florens</i> |

BUTTERFLIES THREATENED

| | |
|----------------------------|-----------------------|
| Silver-bordered fritillary | <i>Boloria selene</i> |
|----------------------------|-----------------------|

MOTHS THREATENED

| | |
|-----------------|-------------------------------|
| Wayward nymph | <i>Catocala antinympha</i> |
| — | <i>Spartiniphaga panatela</i> |
| — | <i>Fagitana littera</i> |
| The pink-streak | <i>Faronta rubripennis</i> |

BEETLES THREATENED

| | |
|--------------------------|--------------------------------|
| — | <i>Cicindela hirticollis</i> |
| Cobblestone tiger beetle | <i>Cicindela marginipennis</i> |

ISOPODS THREATENED

| | |
|-------------------|---------------------------|
| Frost cave isopod | <i>Caecidotea rotunda</i> |
|-------------------|---------------------------|

OHIO's SPECIES of CONCERN

NOTE: *E & *T denote federal (U.S. Fish and Wildlife Service)
listed endangered and threatened species respectively.

MAMMALS SPECIES OF CONCERN

| | |
|----------------------------|----------------------------------|
| Pygmy shrew | <i>Sorex hoyi</i> |
| Star-nosed mole | <i>Condylura cristata</i> |
| Eastern small-footed bat | <i>Myotis leibii</i> |
| Rafinesque's big-eared bat | <i>Corynorhinus rafinesquii</i> |
| Little brown bat | <i>Myotis lucifugus</i> |
| Big brown bat | <i>Eptesicus fuscus</i> |
| Tri-colored bat | <i>Perimyotis subflavus</i> |
| Woodland jumping mouse | <i>Napaeozapus insignis</i> |
| Badger | <i>Taxidea taxus</i> |
| Ermine | <i>Mustela erminea</i> |
| Smoky shrew | <i>Sorex fumerus</i> |
| Deer mouse | <i>Peromyscus maniculatus</i> |
| Prairie vole | <i>Microtus ochrogaster</i> |
| Woodland vole | <i>Microtus pinetorum</i> |
| Southern bog lemming | <i>Synaptomys cooperi</i> |
| Silver-haired bat | <i>Lasionycteris noctivagans</i> |
| Red bat | <i>Lasiurus borealis</i> |
| Hoary bat | <i>Lasiurus cinereus</i> |
| Snowshoe hare | <i>Lepus americanus</i> |

BIRDS SPECIES OF CONCERN

| | |
|--------------------------|------------------------------|
| Sharp-shinned hawk | <i>Accipiter striatus</i> |
| Sedge wren | <i>Cistothorus platensis</i> |
| Marsh wren | <i>Cistothorus palustris</i> |
| Henslow's sparrow | <i>Ammodramus henslowii</i> |
| Cerulean warbler | <i>Setophaga cerulea</i> |
| Prothonotary warbler | <i>Protonotaria citrea</i> |
| Bobolink | <i>Dolichonyx oryzivorus</i> |
| Northern bobwhite | <i>Colinus virginianus</i> |
| Common moorhen | <i>Gallinula chloropus</i> |
| Great egret | <i>Ardea alba</i> |
| Sora rail | <i>Porzana carolina</i> |
| Virginia rail | <i>Rallus limicola</i> |
| Yellow-bellied sapsucker | <i>Sphyrapicus varius</i> |

MOLLUSKS SPECIES OF CONCERN

| | |
|------------------|-------------------------------|
| Purple wartyback | <i>Cyclonaias tuberculata</i> |
|------------------|-------------------------------|

| | |
|----------------------|-----------------------------------|
| Wavyrayed lampmussel | <i>Lampsilis fasciola</i> |
| Round pigtoe | <i>Pleurobema sintoxia</i> |
| Salamander mussel | <i>Simpsonaias ambigua</i> |
| Deertoe | <i>Truncilla truncata</i> |
| Elktoe | <i>Alasmodonta marginata</i> |
| Kidneyshell | <i>Ptychobranchus fasciolaris</i> |
| Creek heelsplitter | <i>Lasmigona compressa</i> |

REPTILES SPECIES OF CONCERN

| | |
|----------------------------------|-------------------------------------|
| Woodland box turtle | <i>Terrapene carolina carolina</i> |
| Ouachita map turtle | <i>Graptemys ouachitensis</i> |
| Black kingsnake | <i>Lampropeltis getula nigra</i> |
| Eastern gartersnake (melanistic) | <i>Thamnophis sirtalis sirtalis</i> |
| Northern rough greensnake | <i>Opheodrys aestivus</i> |
| Eastern foxsnake | <i>Pantherophis gloydi</i> |
| Queensnake | <i>Regina septemvittata</i> |
| Little brown skink | <i>Scincella lateralis</i> |
| Smooth earthsnake | <i>Virginia valeriae</i> |
| Short-headed gartersnake | <i>Thamnophis brachystoma</i> |
| Eastern hognose snake | <i>Heterodon platirhinos</i> |

AMPHIBIANS SPECIES OF CONCERN

| | |
|----------------------|----------------------------------|
| Four-toed salamander | <i>Hemidactylium scutatum</i> |
| Eastern cricket frog | <i>Acris crepitans crepitans</i> |

FISHES SPECIES OF CONCERN

| | |
|---------------------|-------------------------------|
| Lake trout | <i>Salvelinus namaycush</i> |
| Lake whitefish | <i>Coregonus clupeaformis</i> |
| Burbot | <i>Lota lota</i> |
| Muskellunge | <i>Esox masquinongy</i> |
| River redhorse | <i>Moxostoma carinatum</i> |
| Eastern sand darter | <i>Ammocrypta pellucida</i> |
| Least darter | <i>Etheostoma microperca</i> |
| Blue catfish | <i>Ictalurus furcatus</i> |
| Longnose dace | <i>Rhinichthys cataractae</i> |

CRAYFISHES SPECIES OF CONCERN

| | |
|----------------------|------------------------------|
| Great Lakes crayfish | <i>Orconectes propinquus</i> |
|----------------------|------------------------------|

| | |
|--------------------|----------------------------|
| Northern crayfish | <i>Orconectes virilis</i> |
| Allegheny crayfish | <i>Orconectes obscurus</i> |

DRAGONFLIES SPECIES OF CONCERN

| | |
|-----------------|------------------------------|
| Tiger spiketail | <i>Cordulegaster erronea</i> |
|-----------------|------------------------------|

MAYFLIES SPECIES OF CONCERN

| | |
|---|-----------------------------|
| – | <i>Maccaffertium ithica</i> |
|---|-----------------------------|

MIDGES SPECIES OF CONCERN

| | |
|---|---------------------------|
| – | <i>Cantopelopia gesta</i> |
|---|---------------------------|

CADDISFLIES SPECIES OF CONCERN

| | |
|---|-------------------------------|
| – | <i>Hydroptila chattanooga</i> |
| – | <i>Asynarchus montanus</i> |
| – | <i>Nemotaulius hostilis</i> |

BUTTERFLIES SPECIES OF CONCERN

| | |
|---------------------|----------------------------|
| Two-spotted skipper | <i>Euphyes bimacula</i> |
| Dusted skipper | <i>Atrytonopsis hianna</i> |

MOTHS SPECIES OF CONCERN

| | |
|----------------------|--------------------------------|
| Milnei's looper moth | <i>Euchlaena milnei</i> |
| Buck moth | <i>Hemileuca maia</i> |
| One-eyed sphinx | <i>Smerinthus cerisyi</i> |
| Precious underwing | <i>Catocala pretiosa</i> |
| – | <i>Macrochilo bivittata</i> |
| – | <i>Phalaenostola hanhami</i> |
| – | <i>Paectes abrotolella</i> |
| – | <i>Capis curvata</i> |
| – | <i>Tarachidia binocula</i> |
| – | <i>Apamea mixta</i> |
| – | <i>Agroperina lutosa</i> |
| Columbine borer | <i>Papaipema leucostigma</i> |
| Bracken borer moth | <i>Papaipema pterisii</i> |
| Osmunda borer moth | <i>Papaipema speciosissima</i> |
| – | <i>Chytonix sensilis</i> |
| – | <i>Amolita roseola</i> |
| Goat sallow | <i>Homoglaea hircina</i> |
| – | <i>Brachylomia algens</i> |
| Purple arches | <i>Polia purpurissata</i> |
| Scurfy quaker | <i>Homorthodes furfurata</i> |
| – | <i>Trichosilia manifesta</i> |
| – | <i>Agonopterix pteleae</i> |

BEETLES SPECIES OF CONCERN

| | |
|----------------------------|----------------------------------|
| Six-banded longhorn beetle | <i>Dryobius sexnotatus</i> |
| – | <i>Cicindela splendida</i> |
| – | <i>Cicindela ancocisconensis</i> |
| – | <i>Cicindela cursitans</i> |
| – | <i>Cicindela cuprascens</i> |
| – | <i>Cicindela macra</i> |

CRICKETS SPECIES OF CONCERN

| | |
|----------------------|--------------------------|
| Laricis tree cricket | <i>Oecanthus laricis</i> |
|----------------------|--------------------------|

OHIO's SPECIAL INTEREST

NOTE: *E & *T denote federal (U.S. Fish and Wildlife Service)
listed endangered and threatened species respectively.

MAMMALS SPECIAL INTEREST

| | |
|-------------|-----------------------------|
| Evening bat | <i>Nycticeius humeralis</i> |
|-------------|-----------------------------|

BIRDS SPECIAL INTEREST

| | |
|-----------------------------|--------------------------------------|
| Canada warbler | <i>Wilsonia canadensis</i> |
| Magnolia warbler | <i>Setophaga magnolia</i> |
| Northern waterthrush | <i>Seiurus noveboracensis</i> |
| Winter wren | <i>Troglodytes troglodytes</i> |
| Black-throated blue warbler | <i>Setophaga caerulescens</i> |
| Brown creeper | <i>Certhia americana</i> |
| Chuck-will's-widow | <i>Caprimulgus carolinensis</i> |
| Bell's vireo | <i>Vireo bellii</i> |
| Long-eared owl | <i>Asio otus</i> |
| Mourning warbler | <i>Oporornis philadelphia</i> |
| Northern saw-whet owl | <i>Aegolius acadicus</i> |
| Pine siskin | <i>Carduelis pinus</i> |
| Purple finch | <i>Carpodacus purpureus</i> |
| Red-breasted nuthatch | <i>Sitta canadensis</i> |
| Short-eared owl | <i>Asio flammeus</i> |
| Western meadowlark | <i>Sturnella neglecta</i> |
| Golden-crowned kinglet | <i>Regulus satrapa</i> |
| Blackburnian warbler | <i>Setophaga fusca</i> |
| Wilson's snipe | <i>Gallinago delicata</i> |
| Gadwall | <i>Anas strepera</i> |
| Green-winged teal | <i>Anas crecca</i> |
| Northern pintail | <i>Anas acuta</i> |
| Northern shoveler | <i>Anas clypeata</i> |
| Redhead | <i>Aythya americana</i> |
| Ruddy duck | <i>Oxyura jamaicensis</i> |
| American black duck | <i>Anas rubripes</i> |
| Wilson's phalarope | <i>Phalaropus tricolor</i> |
| Yellow-headed blackbird | <i>Xanthocephalus xanthocephalus</i> |
| Common raven | <i>Corvus corax</i> |
| Dark-eyed junco | <i>Junco hyemalis</i> |
| Yellow-crowned night-heron | <i>Nyctanassa violacea</i> |
| Hermit thrush | <i>Catharus guttatus</i> |
| Least flycatcher | <i>Empidonax minimus</i> |

BUTTERFLIES SPECIAL INTEREST

| | |
|----------------|------------------------|
| Olympia marble | <i>Euchloe olympia</i> |
|----------------|------------------------|

MOTHS SPECIAL INTEREST

| | |
|---------------------------|---------------------------------|
| Slender clearwing | <i>Hemaris gracilis</i> |
| — | <i>Sphinx lucitosa</i> |
| — | <i>Tathorhynchus exsiccatus</i> |
| — | <i>Catocala marmorata</i> |
| — | <i>Catocala maestosa</i> |
| Subflava sedge borer moth | <i>Archana subflava</i> |
| — | <i>Caradrina meralis</i> |
| — | <i>Calophasia lunula</i> |
| — | <i>Leucania insueta</i> |
| — | <i>Protorthodes incincta</i> |
| Variegated orange moth | <i>Epelis truncataria</i> |

OHIO's EXTIRPATED SPECIES

NOTE: *E & *T denote federal (U.S. Fish and Wildlife Service)
listed endangered and threatened species respectively.

MAMMALS EXTIRPATED

| | |
|--------------------------|------------------------------|
| Rice rat | <i>Oryzomys palustris</i> |
| Porcupine | <i>Erethizon dorsatum</i> |
| Timber wolf | <i>Canis lupus</i> |
| Marten | <i>Martes americanus</i> |
| Fisher | <i>Martes pennanti</i> |
| Mountain lion | <i>Puma concolor</i> |
| Lynx | <i>Lynx canadensis</i> |
| Wapiti (Elk) | <i>Cervus elaphus</i> |
| Bison | <i>Bison bison</i> |
| Southern red-backed vole | <i>Clethrionomys gapperi</i> |

BIRDS EXTIRPATED

| | |
|-------------------------|--------------------------------|
| Swallow-tailed kite | <i>Elanoides forficatus</i> |
| Greater prairie-chicken | <i>Tympanuchus cupido</i> |
| Ivory-billed woodpecker | <i>Campephilus principalis</i> |
| Bachman's sparrow | <i>Aimophila aestivalis</i> |
| Golden-winged warbler | <i>Vermivora chrysoptera</i> |
| Bewick's wren | <i>Thryomanes bewickii</i> |

FISHES EXTIRPATED

| | |
|----------------------------|------------------------------|
| Alligator gar | <i>Lepisosteus spatula</i> |
| Pugnose shiner | <i>Notropis anogenus</i> |
| Longhead darter | <i>Percina macrocephala</i> |
| Diamond darter | <i>Crystallaria cincotta</i> |
| Spoonhead sculpin | <i>Cottus ricei</i> |
| Blackchin shiner | <i>Notropis heterodon</i> |
| Blacknose shiner | <i>Notropis heterolepis</i> |
| Mississippi silvery minnow | <i>Hybognathus nuchalis</i> |

MOLLUSKS EXTIRPATED

| | |
|---------------------------|-----------------------------------|
| Orangefoot pimpleback *E | <i>Plethobasus cooperianus</i> |
| Rough pigtoe *E | <i>Pleurobema plenum</i> |
| Fat pocketbook *E | <i>Potamilus capax</i> |
| Winged mapleleaf *E | <i>Quadrula fragosa</i> |
| Mucket | <i>Actinonaias l. ligamentina</i> |
| Spectaclecase | <i>Cumberlandia monodonta</i> |
| Cracking pearly mussel *E | <i>Hemistena lata</i> |
| White wartyback | <i>Plethobasus cicatricosus</i> |
| Hickorynut | <i>Obovaria olivaria</i> |
| Ring pink | <i>Obovaria retusa</i> |
| Scale shell | <i>Leptodea leptodon</i> |

BUTTERFLIES EXTIRPATED

| | |
|---------------|--------------------|
| Mustard white | <i>Pieris napi</i> |
|---------------|--------------------|

OHIO's EXTINCT SPECIES

NOTE: *E & *T denote federal (U.S. Fish and Wildlife Service)
listed endangered and threatened species respectively.

BIRDS EXTINCT

| | |
|-------------------|--------------------------------|
| Passenger pigeon | <i>Ectopistes migratorius</i> |
| Carolina parakeet | <i>Conuropsis carolinensis</i> |

FISHES EXTINCT

| | |
|----------------|-------------------------------|
| Harelip sucker | <i>Lagochila lacera</i> |
| Blue pike | <i>Sander vitreus glaucus</i> |

MOLLUSKS EXTINCT

| | |
|------------------------|-------------------------------------|
| Leafshell | <i>Epioblasma flexuosa</i> |
| Forkshell | <i>Epioblasma lewisi</i> |
| Round snuffbox | <i>Epioblasma personata</i> |
| Cincinnati riffleshell | <i>Epioblasma phillipsi</i> |
| Scioto pigtoe | <i>Pleurobema bournianum</i> |
| Tubercled blossom | <i>Epioblasma torulosa torulosa</i> |

BEETLES EXTINCT

| | |
|----------------------|----------------------------------|
| Kramer's cave beetle | <i>Pseudanophthalmus krameri</i> |
|----------------------|----------------------------------|